

CALENDAR FOR WATER YEAR 1971

OCTOBER 1970

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

NOVEMBER 1970

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

DECEMBER 1970

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

JANUARY 1971

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

FEBRUARY 1971

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28						

MARCH 1971

S	M	T	W	T	F	S
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

APRIL 1971

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	

MAY 1971

S	M	T	W	T	F	S
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	31					

JUNE 1971

S	M	T	W	T	F	S
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

JULY 1971

S	M	T	W	T	F	S
				1	2	3
4	5	6	7	8	9	10
11	12	13	14	15	16	17
18	19	20	21	22	23	24
25	26	27	28	29	30	31

AUGUST 1971

S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

SEPTEMBER 1971

S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30		

1971

Water Resources Data for Indiana

Part 1. Surface Water Records

Part 2: Water Quality Records



**UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY**

Prepared in cooperation with the State of Indiana
and with other agencies

Prepared in cooperation with
Indiana Department of Natural Resources
Indiana State Board of Health
Indiana State Highway Commission
Corps of Engineers, U.S. Army

Copies of this report may be obtained from
District Chief, Water Resources Division
U.S. Geological Survey
1819 North Meridian Street
Indianapolis, Indiana 46202

CONTENTS

	Page
List of surface-water stations, in downstream order, for which records are published.....	IV
List of water-quality stations, in downstream order, for which records are published.....	XI
Introduction.....	1
Cooperation.....	2
Definition of terms.....	3
Special networks.....	9
Downstream order and station numbers.....	9
Surface-water records.....	10
Collection and computation of data.....	10
Accuracy of data.....	15
Publications.....	16
Other data available.....	17
Water-quality records.....	17
Collection and examination of data.....	17
Solutes.....	19
Temperature.....	20
Sediment.....	20
Publications.....	21
Other data available.....	22
Hydrologic conditions.....	22
Selected references.....	24
Part 1. Surface-water records.....	27
Part 2. Water-quality records.....	275
Index.....	351

ILLUSTRATIONS

Figure 1. Runoff during 1971 water year compared with median runoff for period 1931-60 for three representative gaging stations..	23
2. Map of Indiana showing location of gaging stations.....	28
3. Map of Indiana showing location of partial-record stations and miscel- laneous sites.....	263
4. Map of Indiana showing location of water- quality stations.....	276

IV SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED

	Page
OHIO RIVER BASIN	
GREAT MIAMI BASIN	
Whitewater River near Economy.....	29
Whitewater River near Hagerstown.....	30
Little Williams Creek at Connersville.....	31
Whitewater River near Alpine.....	32
East Fork Whitewater River at Richmond.....	33
East Fork Whitewater River at Abington.....	34
East Fork Whitewater River at Brookville.....	35
Whitewater River at Brookville.....	36
HOGAN CREEK BASIN	
South Hogan Creek near Dillsboro.....	37
LAUGHERY CREEK BASIN	
Laughery Creek near Farmers Retreat.....	38
INDIAN-KENTUCK CREEK BASIN	
Indian-Kentuck Creek near Canaan.....	39
SILVER CREEK BASIN	
Silver Creek:	
Muddy Fork:	
Deam Lake near Sellersburg.....	40
Silver Creek near Sellersburg.....	41
BUCK CREEK BASIN	
Buck Creek near New Middletown.....	42
INDIAN CREEK BASIN	
Indian Creek:	
Little Indian Creek near Galena.....	43
Indian Creek near Corydon.....	44
BLUE RIVER BASIN	
Blue River at Fredericksburg.....	45
Blue River near White Cloud.....	46
ANDERSON RIVER BASIN	
Anderson River:	
Middle Fork Anderson River at Bristow.....	47
PIGEON CREEK BASIN	
Pigeon Creek at Evansville.....	48
WABASH RIVER BASIN	
Wabash River near New Corydon.....	49
Wabash River at Linn Grove.....	50
Wabash River at Bluffton.....	51
Huntington Lake at Huntington.....	52
Wabash River at Huntington.....	53
Little River near Huntington.....	54
Salamonie River at Portland.....	55
Salamonie River near Warren.....	56
Salamonie Lake at Dora.....	57
Salamonie River at Dora.....	58

OHIO RIVER BASIN--Continued

Page

WABASH RIVER BASIN--Continued

Wabash River at Wabash.....	59
Mississinewa River near Ridgeville.....	60
Mississinewa River near Eaton.....	61
Big Lick Creek near Hartford City.....	62
Mississinewa River at Marion.....	63
Mississinewa Lake at Peoria.....	64
Mississinewa River at Peoria.....	65
Wabash River at Peru.....	66
Pipe Creek near Bunker Hill.....	67
Eel River at North Manchester.....	68
Weesau Creek near Deedsville.....	69
Eel River near Logansport.....	70
Wabash River at Logansport.....	71
Rattlesnake Creek near Patton.....	72
Wabash River at Delphi.....	73
Deer Creek near Delphi.....	74
Tippecanoe River at Oswego.....	75
Walnut Creek near Warsaw.....	76
Tippecanoe River near Ora.....	77
Indian Creek:	
Little Indian Creek near Royal Center.....	78
Big Monon Creek near Francesville.....	79
Tippecanoe River near Monticello.....	80
Tippecanoe River near Delphi.....	81
Wildcat Creek near Jerome.....	82
Kokomo Creek near Kokomo.....	83
Wildcat Creek at Kokomo.....	84
Wildcat Creek at Owasco.....	85
South Fork Wildcat Creek near Lafayette.....	86
Wildcat Creek near Lafayette.....	87
Wabash River at Lafayette.....	88
Mud Pine Creek near Oxford.....	89
Big Pine Creek near Williamsport.....	90
Wabash River at Covington.....	91
Vermilion River near Danville, Ill.....	92
Coal Creek:	
East Fork Coal Creek near Hillsboro.....	93
Coal Creek at Coal Creek.....	94
Little Vermilion River near Newport.....	95
Sugar Creek at Crawfordsville.....	96
Sugar Creek near Byron.....	97
Wabash River at Montezuma.....	98
Big Raccoon Creek near Fincastle.....	99
Mansfield Lake at Ferndale.....	100
Big Raccoon Creek at Ferndale.....	101

VI SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER--Continued

	Page
OHIO RIVER BASIN--Continued	
WABASH RIVER BASIN--Continued	
Big Raccoon Creek--Continued	
Little Raccoon Creek near Catlin.....	102
Big Raccoon Creek at Coxville.....	103
Brouilletts Creek near Universal.....	104
Wabash River at Terre Haute.....	105
Wabash River at Riverton.....	106
Busseron Creek near Hymera.....	107
West Fork Busseron Creek near Hymera.....	108
Big Branch:	
Mud Creek near Dugger.....	109
Busseron Creek near Sullivan.....	110
Buttermilk Creek near Paxton.....	111
Busseron Creek near Carlisle.....	112
Wabash River at Vincennes.....	113
Embarras River at Ste. Marie, Ill.....	114
North Fork Embarras River near Oblong, Ill.....	115
White River:	
Prairie Creek Reservoir near Muncie.....	116
White River at Muncie.....	117
Buck Creek near Muncie.....	118
White River at Anderson.....	119
Killbuck Creek near Gaston.....	120
Pipe Creek at Frankton.....	121
White River near Noblesville.....	122
White River at Noblesville.....	123
Cicero Creek near Arcadia.....	124
Little Cicero Creek near Arcadia.....	125
Hinkle Creek near Cicero.....	126
Morse Reservoir near Noblesville.....	127
Cicero Creek at Noblesville.....	128
Stony Creek near Noblesville.....	129
White River near Nora.....	130
Crooked Creek at Indianapolis.....	131
Fall Creek:	
Sugar Creek near Middletown.....	132
Fall Creek near Fortville.....	133
Geist Reservoir near Oaklandon.....	134
Mud Creek at Indianapolis.....	135
Fall Creek at Millersville.....	136
White River at Indianapolis.....	137
Pleasant Run at Arlington Avenue at Indianapolis	138
Pleasant Run at Brookville Road at Indianapolis.	139
Bean Creek at Indianapolis.....	140
Eagle Creek at Zionsville.....	141
Eagle Creek Reservoir near Indianapolis.....	142

	Page
OHIO RIVER BASIN--Continued	
WABASH RIVER BASIN--Continued	
White River--Continued	
Eagle Creek at Indianapolis.....	143
Little Eagle Creek at Speedway.....	144
Lick Creek at Indianapolis.....	145
White Lick Creek:	
West Fork White Lick Creek at Danville.....	146
White Lick Creek at Mooresville.....	147
White River near Centerton.....	148
Beanblossom Creek at Beanblossom.....	149
Bear Creek near Trevlac.....	150
Lake Lemon near Bloomington.....	151
Beanblossom Creek at Dolan.....	152
White River at Spencer.....	153
Eel River:	
Plum Creek near Bainbridge.....	154
Big Walnut Creek (head of Eel River) near Reelsville.....	155
Mill Creek near Cataract.....	156
Cagles Mill Lake near Manhattan.....	157
Mill Creek near Manhattan.....	158
Deer Creek near Putnamville.....	159
Eel River at Bowling Green.....	160
White River at Newberry.....	161
Big Blue River (head of East Fork White River) at Carthage.....	162
Big Blue River at Shelbyville.....	163
Sugar Creek at New Palestine.....	164
Buck Creek at Acton.....	165
Youngs Creek near Edinburg.....	166
Sugar Creek near Edinburg.....	167
Driftwood River (continuation of Big Blue River) near Edinburg.....	168
Flatrock River at St. Paul.....	169
Flatrock River at Columbus.....	170
East Fork White River (continuation of Drift- wood River) at Columbus.....	171
Haw Creek near Clifford.....	172
Clifty Creek at Hartsville.....	173
Sand Creek near Brewersville.....	174
East Fork White River at Seymour.....	175
Graham Creek (head of Muscatatuck River) near Vernon.....	176
Big Creek:	
Harberts Creek near Madison.....	177
Muscatatuck River near Deputy.....	178

VIII SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER--Continued

	Page
OHIO RIVER BASIN--Continued	
WABASH RIVER BASIN--Continued	
White River--Continued	
East Fork White River--Continued	
Muscatatuck River--Continued	
Quick Creek Reservoir near Austin.....	179
Muscatatuck River near Austin.....	180
Vernon Fork:	
Brush Creek near Nebraska.....	181
Brush Creek Reservoir near Butlerville....	182
Vernon Fork near Butlerville.....	183
Vernon Fork at Vernon.....	184
East Fork White River near Bedford.....	185
Back Creek at Leesville.....	186
Middle Fork Salt Creek:	
South Fork Salt Creek at Kurtz.....	187
North Fork Salt Creek at Nashville.....	188
North Fork Salt Creek near Belmont.....	189
Stephens Creek near Bloomington.....	190
Monroe Lake near Harrodsburg.....	191
Salt Creek near Harrodsburg.....	192
Clear Creek near Harrodsburg.....	193
Salt Creek near Peerless.....	194
Indian Creek near Springville.....	195
East Fork White River at Shoals.....	196
Lost River near West Baden Springs.....	197
White River at Petersburg.....	198
Patoka River near Hardinsburg.....	199
Patoka River near Ellsworth.....	200
Beaver Creek Reservoir near Jasper.....	201
Patoka River at Jasper.....	202
Straight River:	
Hall Creek (head of Straight River)	
near St. Anthony.....	203
Flat Creek near Otwell.....	204
Patoka River at Winslow.....	205
South Fork Patoka River near Spurgeon.....	206
Patoka River near Princeton.....	207
Wabash River at Mount Carmel, Ill.....	208
Bonpas Creek at Browns, Ill.....	209
Big Creek near Wadesville.....	210

STREAMS TRIBUTARY TO LAKE MICHIGANCALUMET RIVER BASIN

Little Calumet River (western portion, head of
Calumet River):

Hart ditch at Munster.....	211
Little Calumet River at Munster.....	212
Thorn Creek at Thornton, Ill.....	213
Little Calumet River at South Holland, Ill.....	214

BURNS WATERWAY

Deep River (head of Burns Waterway) at Lake George	
Outlet at Hobart.....	215
Little Calumet River at Gary.....	216
Burns ditch (continuation of Deep River) at Gary...	217
Little Calumet River at Porter.....	218
Salt Creek near McCool.....	219

TRAIL CREEK BASIN

Trail Creek at Michigan City.....	220
-----------------------------------	-----

GALIEN RIVER BASIN

Galena River near LaPorte.....	221
--------------------------------	-----

ST. JOSEPH RIVER BASIN

St. Joseph River:

Fawn River:

Lime Lake Outlet at Panama.....	222
Pigeon Creek at Hogback Lake Outlet near Angola..	223
Turkey Creek:	
Pretty Lake Inlet near Stroh.....	224
Pigeon River near Scott.....	225
North Branch Elkhart River near Cosperville.....	226
South Branch Elkhart River:	
Forker Creek near Burr Oak.....	227
Turkey Creek at Syracuse.....	228
Elkhart River at Goshen.....	229
St. Joseph River at Elkhart.....	230

STREAMS TRIBUTARY TO LAKE ERIEMAUMEE RIVER BASIN

St. Joseph River (head of Maumee River):

Fish Creek at Hamilton.....	231
St. Joseph River near Newville.....	232
St. Joseph River at Cedarville.....	233
Cedar Creek at Auburn.....	234
Cedar Creek near Cedarville.....	235
St. Marys River at Decatur.....	236
St. Marys River near Fort Wayne.....	237
Harber ditch at Fort Wayne.....	238
Maumee River at New Haven.....	239
Maumee River at Antwerp, Ohio.....	240

X SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER--Continued

	Page
UPPER MISSISSIPPI RIVER BASIN	
ILLINOIS RIVER BASIN	
Kankakee River (head of Illinois River) near North Liberty.....	241
Kingsbury Creek near LaPorte.....	242
Kankakee River at Davis.....	243
Yellow River near Bremen.....	244
Yellow River at Plymouth.....	245
Yellow River at Knox.....	246
Kankakee River at Dunns Bridge.....	247
State ditch near Kouts.....	248
Kankakee River at Shelby.....	249
Singleton ditch at Schneider.....	250
West Creek near Schneider.....	251
Singleton ditch at Illinois, Ill.....	252
Kankakee River at Momence, Ill.....	253
Iroquois River at Rosebud.....	254
Iroquois River near North Marion.....	255
Iroquois River at Rensselaer.....	256
Slough Creek:	
Bice ditch near South Marion.....	257
Slough Creek near Collegeville.....	258
Carpenter Creek at Egypt.....	259
Iroquois River near Foresman.....	260
Iroquois River at Iroquois, Ill.....	261
Sugar Creek at Milford, Ill.....	262
Discharge at partial-record stations and miscellaneous sites.....	264
Low-flow partial-record stations.....	264
Discharge measurements at miscellaneous sites.....	268
Records available on lakes.....	270
Other lake maps available.....	274

WATER-QUALITY STATIONS, IN DOWNSTREAM ORDER,
FOR WHICH RECORDS ARE PUBLISHED

XI

(Letters after station name designate type of data:
(c), chemical; (t), water temperature; (s), sediment)

	Page
<u>OHIO RIVER BASIN</u>	
<u>GREAT MIAMI RIVER BASIN</u>	
Whitewater River:	
East Fork Whitewater River near Abington (ct)....	277
<u>HOGAN CREEK BASIN</u>	
South Hogan Creek near Dillsboro (c).....	280
<u>WABASH RIVER BASIN</u>	
Wabash River near New Corydon (c).....	282
Wabash River at Huntington (t).....	284
Eel River near Logansport (ts).....	286
Wildcat Creek near Lafayette (ct).....	290
Wabash River at Lafayette (t).....	294
Big Pine Creek near Williamsport (ct).....	296
Big Raccoon Creek near Fincastle (ts).....	301
Wabash River at Hutsonville, Ill. (c).....	306
Wabash River at Riverton (t).....	307
White River near Noblesville (t).....	309
White River at Noblesville (t).....	311
White River near Nora (t).....	313
White River near Centerton (t).....	315
Clifty Creek at Hartsville (ct).....	317
East Fork White River at Seymour (ts).....	321
Salt Creek near Harrodsburg (t).....	326
White River at Petersburg (t).....	328
Patoka River near English (ct).....	330
 <u>STREAMS TRIBUTARY TO LAKE ERIE</u>	
<u>MAUMEE RIVER BASIN</u>	
St. Joseph River at Newville (c).....	334
St. Marys River near Willshire, Ohio (c).....	335
Maumee River at Antwerp, Ohio (c).....	336
 Analyses of samples collected at water-quality partial-record stations (s).....	 338

WATER RESOURCES DATA FOR INDIANA, 1971

PART 1. SURFACE-WATER RECORDS

PART 2. WATER-QUALITY RECORDS

INTRODUCTION

Water resources data for the 1971 water year for Indiana, including records of streamflow or reservoir storage at gaging stations, partial-record stations, and miscellaneous sites, and records of water-quality data on the chemical and physical characteristics of surface water are given in this report. Records for a few pertinent gaging and water-quality stations in bordering States also are included. The records were collected and computed by the Water Resources Division of the U.S. Geological Survey under the direction of J. L. Cook, district chief. These data represent that portion of the National Water Data System collected by the U.S. Geological Survey and cooperating State and Federal agencies in Indiana.

Beginning with the 1961 water year, streamflow records and related data have been released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records beginning with the 1964 water year have been similarly released either in separate reports or in conjunction with streamflow records. These reports are for limited distribution and are designed primarily for rapid release of data shortly after the end of the water year.

Records of discharge and contents of reservoirs are published in a series of U.S. Geological Survey water-supply papers entitled, "Surface Water Supply of the United States." Through September 30, 1960, these water-supply papers were in an annual series and since then are in a 5-year series. Records of chemical quality, water temperatures, and suspended sediment have been published since 1941 in an annual series of water-supply papers entitled, "Quality of Surface Waters of the United States." More information is given under the headings "Publications" on pages 16 and 21.

COOPERATION

The U.S. Geological Survey and organizations of the State of Indiana have had cooperative agreements for the systematic collection of surface-water records since 1930. Organizations that supplied data are acknowledged in station descriptions. Organizations that assisted in collecting data through cooperative agreement with the Survey are:

State Department of Natural Resources, J. R. Lloyd, director, through Bureau of Water and Mineral Resources, W. J. Andrews, deputy director.

State Board of Health, A. C. Offutt, commissioner, and P. E. Miller, Commissioner for Environmental Health.

State Highway Commission, R. W. Steele, chairman, R. H. Harrell, executive director, and N. W. Steinkamp, chief engineer.

Assistance in the form of funds or services was given by the Corps of Engineers, U.S. Army, in collecting records for 67 gaging stations published in this report. The following organizations aided in collecting records:

The city of Indianapolis, through its Board of Public Works and Sanitation and its Flood Control Board; cities of Anderson, Bloomington, Muncie, North Vernon, Richmond, and Jasper; Indianapolis Water Co.; Indianapolis Power and Light Co.; Public Service Co. of Indiana; Container Corporation of America; Continental Steel Co.; city of Ft. Wayne Filtration Plant; Indiana and Michigan Electric Co.; Sanitary District of Chicago; and city of Hammond.

DEFINITION OF TERMS

Terms related to streamflow, water quality, and other hydrologic data, as used in this report, are defined as follows:

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet or about 326,000 gallons.

Biochemical oxygen demand (BOD) is the amount of oxygen required by bacteria while stabilizing decomposable organic matter under aerobic conditions.

Cfs-day is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, approximately 1.9835 acre-feet, or about 646,000 gallons, and represents a runoff of approximately 0.0372 inch from 1 square mile.

Coliform organisms are a group of bacteria used as an indicator of the sanitary quality of the water. The number of coliform colonies per 100 milliliters is determined by the immediate or delayed incubation membrane filter method.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Control designates a feature downstream from the gage that determines the stage-discharge relation at the gage. This feature may be a natural constriction of the channel, an artificial structure, or a uniform cross section over a long reach of the channel.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming that the runoff is distributed uniformly in time and area.

Cubic foot per second (cfs) is the rate of discharge representing a volume of 1 cubic foot passing a given point during 1 second and is equivalent to approximately 7.48 gallons per second or 448.8 gallons per minute.

Discharge is the volume of water (or more broadly, total fluids), that passes a given point within a given period of time.

Mean discharge is the arithmetic average of individual daily mean discharges during a specific period.

Instantaneous discharge is the discharge at a particular instant of time. If this discharge is reported instead of the daily mean, the heading of the discharge column in the tables is "Discharge (cfs)."

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

Gage height (G.H.) is the water-surface elevation referred to some arbitrary gage datum. Gage height is often used interchangeably with the general term "stage," although gage height is more appropriate when used with a reading on a gage.

Gaging station is a particular site on a stream, canal, lake, or reservoir where systematic observations of gage height or discharge are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Hardness of water is a physical-chemical characteristic attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as equivalent calcium carbonate (CaCO_3).

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

Milligrams per liter (mg/l, MG/L) is a unit for expressing the concentration of chemical constituents in solution. Milligrams per liter represents the weight of solute per unit volume of water. Milligrams or micrograms per liter may be converted to milliequivalents (one thousandth of a gram-equivalent weight of a constituent) per liter by multiplying by the factors in table 1, page 6. Concentration of suspended sediment also is expressed in mg/l, and is based on the weight of sediment per liter of water-sediment mixture. Sediment concentrations may be converted to parts per million by using the factors in table 2, p. 6.

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

Particle size is the diameter, in millimeters (mm), of suspended sediment or bed material determined by either sieve or sedimentation methods. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling) (Guy, 1969).

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

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

The particle-size distribution given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic material is removed and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native-water analysis (Guy, 1969).

Table 1.--Factors for conversion of chemical constituents in milligrams or micrograms per liter to millequivalents per liter

<u>Ion</u>	<u>Multi- ply by</u>	<u>Ion</u>	<u>Multi- ply by</u>
Aluminum (Al^{+3})	0.11119	Iodide (I^{-1})	0.00788
Ammonia as NH_4^{+1}	.05544	Iron (Fe^{+3})*	.05372
Barium (Ba^{+2})	.01456	Lead (Pb^{+2})*	.00965
Bicarbonate (HCO_3^{-1})	.01639	Lithium (Li^{+1})*	.14411
Bromide (Br^{-1})	.01251	Magnesium (Mg^{+2})	.08226
Calcium (Ca^{+2})	.04990	Manganese (Mn^{+2})*	.03640
Carbonate (CO_3^{-2})	.03333	Nickel (Ni^{+2})*	.03406
Chloride (Cl^{-1})	.02821	Nitrate (NO_3^{-1})	.01613
Chromium (Cr^{+6})*	.11539	Nitrite (NO_2^{-1})	.02174
Cobalt (Co^{+2})*	.03394	Phosphate (PO_4^{-3})	.03159
Copper (Cu^{+2})*	.03148	Potassium (K^{+1})	.02557
Cyanide (CN^{-1})	.03844	Sodium (Na^{+1})	.04350
Fluoride (F^{-1})	.05264	Strontium (Sr^{+2})*	.02283
Hydrogen (H^{+1})	.99209	Sulfate (SO_4^{-2})	.02082
Hydroxide (OH^{-1})	.05880	Zinc (Zn^{+2})*	.03060

*Constituent reported in micrograms per liter; multiply by factor and divide results by 1,000.

Table 2.--Factors for conversion of sediment concentration in milligrams per liter to parts per million*
(All values calculated to three significant figures)

Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by	Range of concentration in 1000 mg/l	Di- vide by
0 - 8	1.00	201-217	1.13	411-424	1.26	619-634	1.39
8.05- 24	1.01	218-232	1.14	427-330	1.27	636-650	1.40
24.2 - 40	1.02	234-248	1.15	443-457	1.28	652-666	1.41
40.5 - 56	1.03	250-264	1.16	460-473	1.29	668-682	1.42
56.5 - 72	1.04	266-280	1.17	476-489	1.30	684-698	1.43
72.5 - 88	1.05	282-297	1.18	492-508	1.31	700-715	1.44
88.5 -104	1.06	299-313	1.19	508-522	1.32	717-730	1.45
105 -120	1.07	315-329	1.20	524-538	1.33	732-747	1.46
121 -136	1.08	331-345	1.21	540-554	1.34	749-762	1.47
137 -152	1.09	347-361	1.22	556-570	1.35	765-780	1.48
153 -169	1.10	363-378	1.23	572-585	1.36	782-796	1.49
170 -185	1.11	380-393	1.24	587-602	1.37	798-810	1.50
186 -200	1.12	395-409	1.25	604-617	1.38		

*Based on water density of 1.000 g/ml and a specific gravity of sediment of 2.65.

Runoff in inches (IN.) shows the depth to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

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

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

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

Total sediment discharge or total sediment load is the sum of the suspended-sediment discharge and the bedload discharge. It is the total quantity of sediment, as measured by dry weight or volume, that is discharged during a given time (Colby and Hembree, 1955).

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

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

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions with soil and is an index of sodium or alkali hazard to the soil. This ratio should be known especially for water used for irrigating farmland.

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

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

Stage-discharge relation is the relation between gage height and the volume of water per unit of time, flowing in a channel.

Thermograph is a thermometer that continuously and automatically records, on a chart, the water temperature of a stream. "Temperature recorder" is the term used to indicate the presence of a thermograph or a digital mechanism that automatically records water temperatures on paper tape.

Tons per day is the quantity of a substance in solution or suspension that passes a stream section during a 24-hour day.

WRD is used as an abbreviation for "Water-Resources Data" in the summary REVISIONS paragraph to refer to previously published State annual basic-data reports.

WSP is used as an abbreviation for "Water-Supply Paper" in reference to previously published reports.

SPECIAL NETWORK

Hydrologic bench-mark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a bench-mark station may be used to separate effects of natural from manmade changes in other basins which have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped bench-mark basin.

DOWNSTREAM ORDER AND STATION NUMBER

Stations are listed in a downstream direction along the main stream, and stations on tributaries are listed between stations on the main stream in the order in which those tributaries enter the main stream. Stations on tributaries entering above all mainstream stations are listed before the first mainstream station. Stations on tributaries to tributaries are listed in a similar manner. In the lists of gaging stations and water-quality stations in the front of this report the rank of tributaries is indicated by indention, each indention representing one rank.

As an added means of identification, each gaging station, partial-record station, and water-quality station has been assigned a station number. These are in the same downstream order used in this report. In assigning station numbers, no distinction is made between partial-record stations and gaging stations; therefore, the station number for a partial-record station indicates downstream order position in a list made up of both types of stations. Water-quality stations located at or near gaging stations or partial-record stations have the same number as the gaging or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete 8-digit number for each station, such as 03335500, which appears just to the left of the station name includes the 2-digit part number "03" plus the 6-digit downstream order number "335500." In this report, the records are listed in downstream order by parts. The part number refers to an area whose boundaries coincide with certain

natural drainage lines. Records in this report are in Part 3 (Ohio River basin), Part 4 (St. Lawrence River basin) and Part 5 (Upper Mississippi River basin). All records for a drainage basin encompassing more than one State can be arranged in downstream order by assembling pages from the various State reports by station number to include all records in the basin.

SURFACE-WATER RECORDS

Collection and computation of data

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and contents of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from direct readings on a non-recording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations or a tape punched at 15-, 30- or 60-minute intervals. Measurements of discharge are made with a current meter, using the general methods adopted by the Geological Survey on the basis of experience in stream gaging since 1888. These methods are described in standard textbooks, in Water-Supply Paper 888, and in U.S. Geological Survey Techniques of Water Resources Investigations, book 3, chapter A6. Surface areas of lakes or reservoirs are determined from instrument surveys using standard methods. The configuration of the reservoir bottom is determined by sounding at many points.

For stream-gaging stations, rating tables giving the discharge for any stage are prepared from stage-discharge relation curves. If extensions to the rating curves are necessary to express discharge greater than measured, they are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, computation of flow over dams or weirs), velocity-area studies, and logarithmic plotting. The daily mean

discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharge are computed from the daily figures. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is computed by the shifting-control method, in which correction factors based on individual discharge measurements and notes by engineers and observers are used in applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the control, the daily mean discharge is computed by what is basically the shifting-control method.

At some stream-gaging stations the stage-discharge relation is affected by backwater from reservoirs, tributary streams, or other sources. This necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage set at some distance from the base gage. At some stations the stage-discharge relation is affected by changing stage; at these stations the rate of change in stage is used as a factor in computing discharge.

At some stream-gaging stations the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed on the basis of the gage-height record and occasional winter discharge measurements, consideration being given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge for other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly change in contents is computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir

surveys the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge or contents. This happens when the recorder stops or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods the daily discharges are estimated on the basis of recorded range in stage, adjoining good record, discharge measurements, weather records, and comparison with other station records from the same or nearby basins. Likewise daily contents may be estimated on the basis of operator's log, adjoining good record, inflow-outflow studies, and other information.

The data in this report generally comprise a description of the station and tabulations of daily and monthly figures. For gaging stations on streams or canals a table showing the daily discharge and monthly and yearly discharge is given. For gaging stations on lakes and reservoirs a monthly summary table of stage and contents is given. Records are published for the water year, which begins on October 1 and ends on September 30. A calendar for the current water year is shown on the reverse side of the front cover to facilitate finding the day of the week for any date.

The description of the gaging stations gives the location, drainage area, period of record, type and history of gages, average discharge, extremes of discharge or contents, general remarks, and notations of revisions of previously published records. The location of the gaging station and the drainage area are obtained from the most accurate maps available. River mileage, given under "LOCATION" for some stations, is that determined and used by the Corps of Engineers or other agencies. Periods for which there are published records for the present station or for stations generally equivalent to the present one are given under "PERIOD OF RECORD." The type of gage currently in use, the datum of the present gage above mean sea level, and a condensed history of the types, locations, and datums of previous gages used during the period of record are given under "GAGE." In references to datum of gage, the phrase "mean sea level" denotes "Sea Level Datum of 1929" as used by the Topographic Division of the Geological Survey unless otherwise qualified. The average discharge for the number

of years indicated is given under "AVERAGE DISCHARGE;" it is not given for stations having fewer than 5 complete years of record or for stations where changes in water development during the period of record cause the figure to have little significance. The maximum discharge (or contents) and the maximum gage height, the minimum daily discharge (or minimum contents) are given under "EXTREMES." In the first paragraph headed "Current year," the data given are for the complete current water year unless otherwise specified. In the second paragraph under "EXTREMES" headed "Period of record:" the data given are for the period of record given in "PERIOD OF RECORD" paragraph. Reliable information concerning major floods that occurred outside the period of record is given in the third or last paragraph under "EXTREMES." Unless otherwise qualified, the maximum discharge (or contents) corresponds to the crest stage obtained by use of a water-stage recorder (graphic or digital), a crest-stage gage, or a nonrecording gage read at the time of the crest. If the maximum gage height did not occur at the same time as the maximum discharge (or contents), it is given separately. Information pertaining to the accuracy of the discharge records, to conditions that affect the natural flow at the gaging station, and availability of Water Quality records, is given under "REMARKS;" for reservoir stations information on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose and use of the reservoir, is also given under "REMARKS."

Previously published records of some stations have been found to be in error on the basis of data or information later obtained. Revisions of such records are usually published along with the current records in one of the annual or compilation reports. In order to make it easier to find such revised records, a paragraph headed "REVISIONS (WATER YEARS)" has been added to the description of all stations for which revised records have been published. Listed therein are all the reports in which revisions have been published, each followed by the water years for which figures are revised in that report. In listing the water years only one number is given; for instance, 1965 stands for the water year October 1, 1964, to September 30, 1965. If no daily, monthly or annual figures of discharge were revised, that fact is brought out by notations after the year dates as follows: "(M)" means that only the instantaneous maximum discharge was revised; "(m)" that only the instantaneous minimum was revised; and "(P)" that only peak discharges were revised. If the drainage area has

been revised, the report in which the revised figure was first published is given. It should be noted that for all stations for which cubic feet per second per square mile and runoff in inches are published, a revision of the drainage area necessitates corresponding revision of all figures based on the drainage area. Revised figures of cubic feet per second per square mile and runoff in inches resulting from a revision of the drainage area only are usually not published in the annual series of reports.

The daily table for stream-gaging stations gives the mean discharge for each day and is followed by monthly and yearly summaries. In the monthly summary below the daily table, the line headed "TOTAL" gives the sum of the daily figures. The line headed "MEAN" gives the average flow in cubic feet per second during the month. The lines headed "MAX" and "MIN" give the maximum and minimum daily discharges, respectively, for the month. Discharge for the month also may be expressed in cubic feet per second per square mile (line headed "CFSM"), or in inches (line headed "IN"). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the drainage includes large noncontributing areas, or if the average annual rainfall over the drainage basin is usually less than 20 inches.

In the yearly summary below the monthly summary, the figures following "MAX" are the maximum daily discharges for the calendar and water years; likewise, those following "MIN" are the minimum daily discharges.

Footnotes to the table of daily discharges are introduced by the word "NOTE." Footnotes are used to indicate periods for which the discharge is computed or estimated by special methods because of no gage-height record, backwater from various sources, or other unusual conditions. Periods of no gage-height record are indicated if the period is continuous for a month or more or includes the maximum discharge for the year. Periods of backwater from an unusual source, of indefinite stage-discharge relation, or of any other unusual condition at the gage site are indicated only if they are a month or more in length and the accuracy of the records is affected. Days on which the stage-discharge relation is affected by ice are not indicated. The methods used in computing discharge for various unusual conditions have been explained in preceding paragraphs.

Peak discharges and their times of occurrence and corresponding gage heights for many stations are listed below the yearly summary. All independent peaks above the selected base are given. The base discharge, which is given in parentheses, is selected so that an average of about three peaks a year can be presented. Peak discharges are not published for any canals, ditches, drains, or for any stream for which the peaks are subjected to substantial control by man. Time of day is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030, 1:30 p.m. is 1330.

For most gaging stations on lakes and reservoirs the data presented comprise a description of the station and a monthly summary table of stage and contents.

Data collected at partial-record stations and miscellaneous sites are given in two tables at the end of the surface-water records in this report. The first is a table of discharge measurements at low-flow partial-record stations, the second is a table of discharge measurements at miscellaneous sites.

Accuracy of data

The accuracy of discharge data depends primarily on (1) the stability of the stage-discharge relation, or if the control is unstable, the frequency of discharge measurements, and (2) the accuracy of observations of stage, measurements of discharge, and interpretation of records.

The station description under "REMARKS" states the degree of accuracy of the records. "Excellent" means that about 95 percent of the daily discharges is within 5 percent; "good" within 10 percent; and "fair" within 15 percent. "Poor" means that daily discharges have less than "fair" accuracy.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 cfs; to tenths between 1.0 and 10 cfs; to whole numbers between 10 and 1,000 cfs; and to 3 significant figures above 1,000 cfs. The number of significant figures used is based solely on the magnitude

of the figure. The same rounding rules apply to discharge figures listed for partial-record stations and miscellaneous sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Publications

In each water-supply paper entitled, "Surface Water Supply of the United States" there is a list of numbers of preceding water-supply papers containing streamflow information for the area covered by that report. In addition, there is a list of numbers of water-supply papers containing detailed information on major floods in the area. Records for stations in Indiana for the period October 1960 to September 1965 are in Water-Supply Papers 1908, 1909, 1911, 1912, and 1915.

Two series of summary reports entitled, "Compilation of Records of Surface Waters of the United States" have been published; the first series covers the entire period of record through September 1950 and the second series covers the period October 1950 to September 1960. These reports contain summaries of monthly and annual series of water-supply papers. All records were reexamined and revised where warranted. Estimates of discharge were made to fill short gaps whenever practical. The yearly summary table for each gaging station lists the numbers of the water-supply papers in which daily records were published for that station. Records for stations in Indiana are compiled in Water-Supply Papers 1305, 1307, and 1308 through September 1950, and in 1725, 1727, and 1728 for October 1950 to September 1960.

Special reports on major floods or droughts or of other hydrologic studies for the area have been issued in publications other than water-supply papers. Information relative to these reports may be obtained from the district office.

Other data available

Information of a more detailed nature than that published for most of the gaging stations, such as discharge measurements, gage-height records, and rating tables, is on file in the district office. Also most gaging-station records are available in computer-usable form and many statistical analyses have been made.

WATER-QUALITY RECORDS

Collection and examination of data

Water samples for analyses usually are collected at or near gaging stations. The discharge records at these stations are used in conjunction with the computations of the chemical constituents and sediment loads in this report.

Descriptive statements are given for water-quality stations located at or near streamflow stations. Given are location, drainage area, periods of record for the various water-quality data, extremes of pertinent data, and general remarks, in a format similar to that used for streamflow gaging stations.

Water-quality information is presented for chemical quality, biological, microbiological, water temperature, and fluvial sediment. Chemical quality includes concentrations of individual dissolved constituents and certain properties or characteristics such as hardness, sodium adsorption ratio, specific conductance, and pH. The biological information includes qualitative and quantitative analyses of plankton, bottom organisms, and particulate inorganic and amorphous matter present. Microbiological information includes quantitative identification of certain bacteriological indicator organisms. Water-temperature data represent once-daily observations except for stations

where a continuous temperature recorder furnished information from which daily minimums and maximums are obtained. Fluvial-sediment information is given for suspended-sediment discharges and concentrations and for particle-size distribution of suspended sediment and bed material.

Prior to the 1968 water year, data for chemical constituents and concentration of suspended sediment were reported in parts per million (ppm) and water temperatures were reported in degrees Fahrenheit (°F). In October 1967 the U.S. Geological Survey began to use the metric system; data for chemical constituents and concentrations of suspended sediment are now reported in milligrams per liter (mg/l) and water temperatures are given in degrees Celsius (centigrade, °C). In waters with a density of 1.000 g/ml (grams per milliliter), parts per million and milligrams per liter can be considered equal. In waters with a density greater than 1.000 g/ml, values in parts per million should be multiplied by the density to convert to milligrams per liter. To convert temperatures in degrees Celsius to degrees Fahrenheit, see table 3 on page 19.

In October 1968, the Geological Survey began reporting many of the chemical constituents as well as the minor elements in micrograms per liter instead of milligrams per liter. (See "Definition of Terms," p. 3.)

Table 3.--Degrees Celsius (°C) to degrees Fahrenheit (°F)*
(Temperature reported to nearest 0.5°C)

°C	°F	°C	°F	°C	°F	°C	°F	°C	°F
0.0	32	10.0	50	20.0	68	30.0	86	40.0	104
.5	33	10.5	51	20.5	69	30.5	87	40.5	105
1.0	34	11.0	52	21.0	70	31.0	88	41.0	106
1.5	35	11.5	53	21.5	71	31.5	89	41.5	107
2.0	36	12.0	54	22.0	72	32.0	90	42.0	108
2.5	36	12.5	54	22.5	72	32.5	90	42.5	108
3.0	37	13.0	55	23.0	73	33.0	91	43.0	109
3.5	38	13.5	56	23.5	74	33.5	92	43.5	110
4.0	39	14.0	57	24.0	75	34.0	93	44.0	111
4.5	40	14.5	58	24.5	76	34.5	94	44.5	112
5.0	41	15.0	59	25.0	77	35.0	95	45.0	113
5.5	42	15.5	60	25.5	78	35.5	96	45.5	114
6.0	43	16.0	61	26.0	79	36.0	97	46.0	115
6.5	44	16.5	62	26.5	80	36.5	98	46.5	116
7.0	45	17.0	63	27.0	81	37.0	99	47.0	117
7.5	45	17.5	63	27.5	81	37.5	99	47.5	117
8.0	46	18.0	64	28.0	82	38.0	100	48.0	118
8.5	47	18.5	65	28.5	83	38.5	101	48.5	119
9.0	48	19.0	66	29.0	84	39.0	102	49.0	120
9.5	49	19.5	67	29.5	85	39.5	103	49.5	121

$$^{\circ}\text{C} = 5/9 (^{\circ}\text{F} - 32) \text{ or } ^{\circ}\text{F} = 9/5 (^{\circ}\text{C}) + 32.$$

Solutes

The methods of collecting and analyzing water samples for determining the kinds and concentrations of solutes are described by Brown, Skougstad, and Fishman (1970). One sample can define adequately the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled at several verticals across the channel to determine accurately the solute load.

At chemical quality stations where monitors are installed, the records consist of daily maximum, minimum, and mean values for each constituent measured. More detailed records (hourly values) may be obtained from the district office of the U.S. Geological Survey at the address given on page II of this report.

Temperature

Water temperatures are measured at most of the water-quality stations. For daily stations, the water temperatures are taken about the same time each day when sample is collected. Large streams have a small diurnal temperature change while small, shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where continuously recording thermographs are present, the records consist of maximum and minimum temperatures for each day and the monthly averages.

Sediment

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

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the sub-divided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the

sub-divided day method. For periods when no samples are collected, daily loads of suspended sediment are estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of the quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Publications

Table 4.--Water-supply paper numbers and parts, water years, 1947-67

<u>Year</u>	<u>Parts 3-4</u>	<u>Parts 5-6</u>	<u>Year</u>	<u>Parts 3-4</u>	<u>Parts 5-6</u>
1947	1102	1102	1958	1571	1572
1948	1132	1132	1959	1642	1643
1949	1162	1162	1960	1742	1743
1950	1186	1187	1961	1882	1883
1951	1197	1198	1962	1942	1943
1952	1250	1251	1963	1948	1949
1953	1290	1291	1964	1955	1956
1954	1350	1351	1965	1962	1963
1955	1400	1401	1966	1992	1993
1956	1450	1451	1967	2012	2013
1957	1520	1521			

Other Data Available

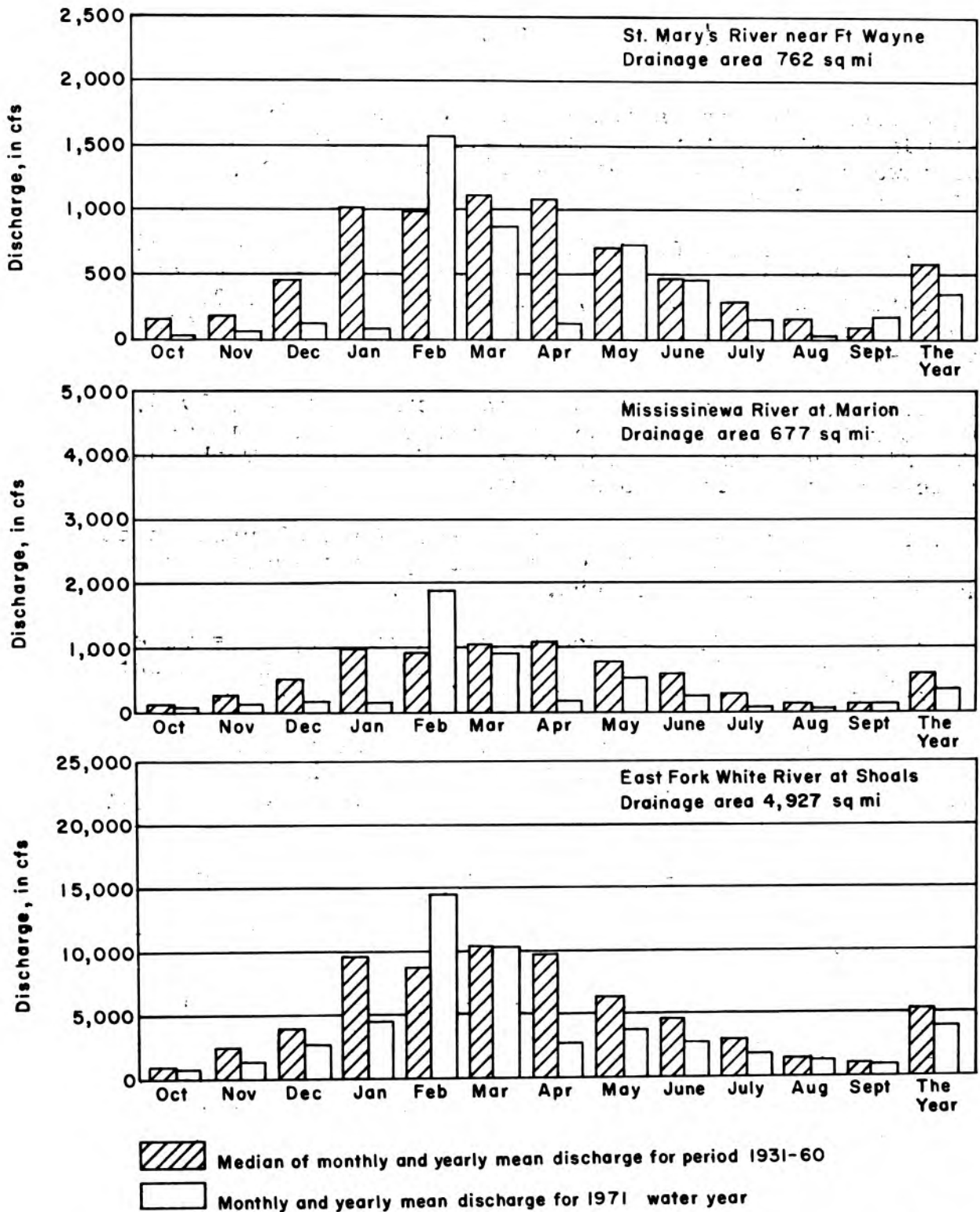
At each stream-gaging station certain water-quality constituents have been collected at the time of each discharge measurement. Water temperatures have been collected since 1949, specific conductance since 1968, and pH since 1970: Data for these constituents may be obtained from district office.

HYDROLOGIC CONDITIONS

Below normal precipitation for the water year occurred throughout the state except along the Ohio River, which was slightly above normal. Peak streamflows were in February when average rainfall fell on frozen ground. Deficient rainfall in April resulted in the lowest streamflow for the month in the last thirty years. Most of the precipitation for the year fell after April, with the summer months at, or slightly above, precipitation normals.

Precipitation for October was slightly above normal with a generally light storm occurring on the fourteenth. Rainfall well below normal for the period November through January, lowered streamflow to near deficient conditions. A warming period with light rains in early February resulted in the maximum streamflows for the year. Generally, statewide storms throughout February maintained streamflow well above average.

Drought conditions again returned to the state during March and April with precipitation during April at record lows. The South Bend and Lafayette weather stations recorded the lowest rainfall in their history and at Indianapolis, the third lowest was recorded. Rainfall in early May in the central and southern parts of the state alleviated the drought conditions, but below normal streamflow in the north was not ended until early July. Summer thunder storms maintained the streamflow until the end of the water year.



Comparison of discharge at three long-term representative gaging stations during 1971 water year with median discharge for period 1931-60

SELECTED REFERENCES

- American Public Health Association, and others, 1971, Standard methods for the examination of water and wastewater, 13th ed.: Am. Public Health Assoc., New York, 874 p.
- Benedict, P. C., 1948, Determination of the suspended sediment discharge of streams, in Federal Interagency Sedimentation Conference, 1st, Denver, Colo., May 6-8, 1947. Proc.: Washington, D.C., U.S. Bur. Reclamation, p. 55-67.
- Brown, Eugene, Skougstad, M. W., and Fishman, M. J., 1970, Methods for collection and analysis of water samples for dissolved minerals and gases: U.S. Geol. Techniques Water-Resources Inv. book 5, chap. A1, 160 p.
- Carter, R. W., and Davidian, Jacob, 1968, General procedures for gaging stream: U.S. Geol. Survey Techniques Water-Resources Inv., book 3, chap. A6, 13 p.
- Colby, B. R., 1963, Fluvial sediments--a summary of source, transportation, deposition, and measurement of sediment discharge: U.S. Geol. Survey Bull. 1181-A, 47 p.
- Colby, B. R., and Hubbell, D. W., 1961, Simplified methods for computing total sediment discharge with the modified Einstein procedure: U.S. Geol. Survey Water-Supply Paper 1593, 17 p.
- Corbett, D. M., and others, 1943, Stream-gaging procedure, a manual describing methods and practices of the Geological Survey: U.S. Geological Survey Water-Supply Paper 888, 245 p.
- Guy, H. P., 1970, Fluvial sediment concepts: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C1, 55 p.
- _____, 1969, Laboratory theory and methods for sediment analysis: U.S. Geol. Survey Techniques of Water-Resources Inv., book 5, chap. C1, 58 p.

- Guy, H. P., and Norman, V. W., 1970, Field methods for measurement of fluvial sediment: U.S. Geol. Survey Techniques of Water-Resources Inv., book 3, chap. C2, 59 p.
- Hem, J. D., 1970, Study and interpretation of the chemical characteristics of natural water: Revised edition: U.S. Geol. Survey Water-Supply Paper 1473, 363 p.
- Lane, E. W., and others, 1947, Report of the subcommittee on sediment terminology: Am. Geophys. Union Trans., v. 28, no. 6, p. 936-938.
- Langbein, W. B., and Iseri, K. T., 1960, General introduction and hydrologic definitions: U.S. Geol. Survey Water-Supply Paper 1541-A, 29 p.
- Love, S. K., and Benedict, P. C., 1948, Discharge and sediment loads in the Boise River drainage basin, Idaho, 1939-40: U.S. Geol. Survey Water-Supply Paper 1048, 150 p.
- Porterfield, George, 1972, Computations of fluvial sediment discharges, U.S. Geol. Survey Techniques of Water Resources Inv., book 3, chap. C3, 66 p.
- Ritter, J. R., and Helley, E. J., 1969, Optical method for determining particle size of coarse sediment, U.S. Geol. Survey Techniques of Water Resources Inv., book 5, chap. C3, 33 p.
- U.S. Inter-Agency Committee on Water Resources, Subcommittee on Sedimentation, A study of methods used in measurement and analysis of sediment loads in streams. Published by the St. Anthony Falls Hydraulic Laboratory, Minneapolis, Minn.
- 1957, The development and calibration of visual accumulation tube: Rept. 11.
- 1957, Some fundamentals of particle size analysis: Rept. 12.
- 1959, Federal Inter-agency sedimentation instruments and reports: Rept. AA.

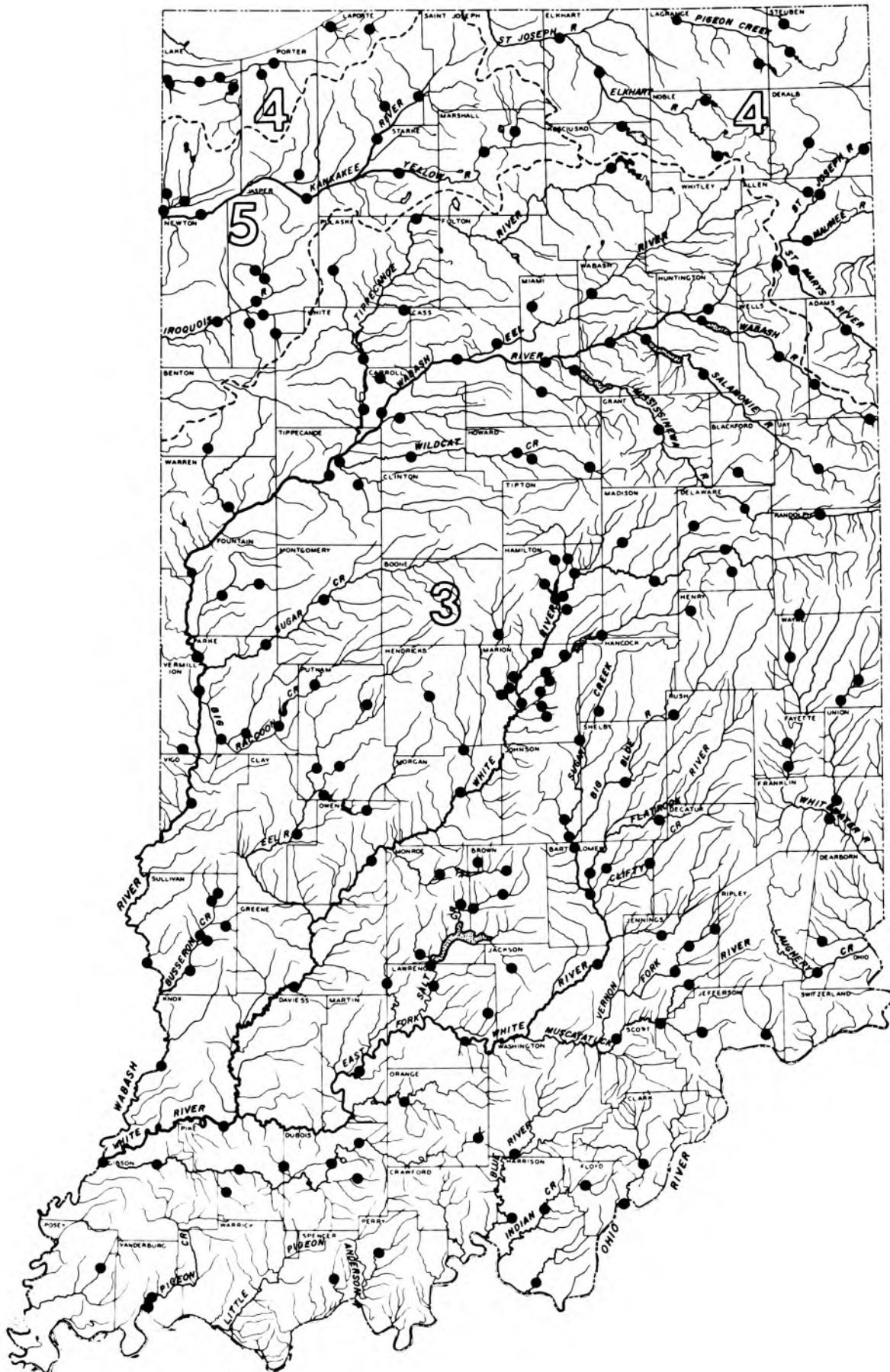
1961, The single stage sampler for suspended sediment: Rept. 13.

1963, Determination of fluvial sediment discharge: Rept. 14.

1963, A summary of the work of the Inter-agency sedimentation project: Rept. S.

PART 1. SURFACE WATER RECORDS

GAGING STATIONS IN INDIANA



03274650 Whitewater River near Economy, Ind.

LOCATION.--Lat 40°00'05", long 85°06'56", in ~~W. 1/4~~ sec. 19, T. 18 N., R. 13 E., Wayne County, on right bank 6 ft downstream from bridge on Wayne County Line Road, 1.7 miles upstream from Little Creek and 2.4 miles northwest of Economy.

DRAINAGE AREA.--10.4 sq mi.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,066.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 560 cfs Feb. 22 (gage height, 6.96 ft); minimum daily, 0.49 cfs Sept. 1, 29, 30. Period of record: Maximum discharge, 560 cfs Feb. 22, 1971 (gage height, 6.96 ft); minimum daily, 0.49 cfs Sept. 1, 29, 30, 1971.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.66	.87	.64	1.1	.90	12	4.6	1.8	3.8	1.2	.66	.49
2	.63	.87	.59	1.0	.85	10	5.5	1.9	27	1.0	.62	.54
3	.56	.87	.78	1.7	.68	8.5	4.5	2.0	11	.95	.64	.80
4	.53	.87	1.6	73	56	6.0	4.0	1.8	7.2	.93	.67	.62
5	.58	.78	1.1	14	118	5.5	3.8	1.9	5.5	.95	.62	.56
6	.62	.78	.78	8.7	10	7.8	3.6	16	4.4	.93	.64	2.0
7	.60	.70	.70	5.1	5.5	12	3.4	17	4.1	.88	.57	.87
8	.64	.64	.64	3.3	2.7	7.8	3.0	37	4.1	.84	.57	.67
9	.70	.70	.60	2.7	1.5	6.2	2.9	16	3.1	.95	.57	.61
10	.68	.78	.64	2.3	1.1	7.2	2.6	11	2.7	1.3	.57	.61
11	.58	.70	.70	2.1	1.5	8.5	2.6	8.2	2.6	1.5	.63	.64
12	1.2	.70	3.1	1.5	43	28	2.6	19	3.9	1.1	.57	.62
13	1.0	.64	2.5	2.9	13	35	2.9	11	3.0	.89	.57	.61
14	1.2	.64	1.5	8.5	4.0	25	3.6	7.6	2.5	.81	.55	.59
15	1.0	.70	1.5	3.3	1.7	40	3.2	6.1	2.2	.78	.57	.56
16	.90	.70	3.2	1.5	1.2	23	3.1	5.5	2.0	.75	.55	.56
17	.80	.64	6.7	1.5	100	13	3.0	6.0	1.8	.80	.54	.57
18	.68	.64	3.7	1.2	64	11	2.7	4.5	1.7	.75	.52	.56
19	.74	.64	2.8	1.0	139	15	2.6	5.2	1.9	.79	.52	.58
20	.88	1.3	2.0	.90	100	13	2.6	6.1	1.8	.72	.52	2.3
21	.98	1.1	2.0	.80	45	10	2.6	4.2	1.8	.67	.51	.87
22	.88	.78	12	.80	185	9.1	2.4	3.5	1.5	.65	.55	.70
23	.72	.70	8.8	.80	70	7.7	2.3	3.1	1.4	.65	.55	.59
24	.81	.64	4.6	.85	23	6.5	2.2	5.1	1.4	1.2	.53	.54
25	.66	.55	3.4	1.1	22	6.1	2.1	30	1.4	.92	.55	.70
26	.64	.64	2.5	.94	60	5.8	2.0	12	1.4	.80	.55	.70
27	.65	.70	2.2	.87	38	5.3	2.1	7.4	1.3	.72	.54	.59
28	.76	.70	1.7	.64	18	5.3	2.3	5.7	1.2	.76	.53	.54
29	1.0	.70	1.5	.84	-----	4.8	2.0	4.7	1.1	.80	.50	.49
30	.95	.64	1.3	.84	-----	4.4	1.9	4.1	1.1	.82	.50	.49
31	.55	-----	1.2	.85	-----	4.2	-----	3.4	-----	.71	.50	-----
TOTAL	24.18	22.35	78.17	147.63	1,125.63	363.7	88.7	268.8	109.9	27.52	17.48	21.57
MEAN	.78	.75	2.52	4.76	40.2	11.7	2.96	8.67	3.66	.89	.56	.72
MAX	1.2	1.3	12	73	185	40	5.5	37	27	1.5	.67	2.3
MIN	.53	.59	.59	.80	.68	4.2	1.9	1.8	1.1	.65	.50	.49
CFSM	.08	.07	.24	.46	3.87	1.13	.28	.83	.35	.09	.05	.07
IN.	.09	.08	.28	.53	4.03	1.30	.32	.96	.39	.10	.06	.08

CAL YR 1970 TOTAL MEAN MAX MIN CFSM IN
WTR YR 1971 TOTAL 2,295.63 MEAN 6.29 MAX 185 MIN .49 CFSM .60 IN 8.21

PEAK DISCHARGE (BASE, 80 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0400	4.62	147	02-19	2000	6.95	558
02-04	1500	5.97	354	02-22	Unknown	6.96	560
02-12	1615	4.58	143	02-26	1245	4.47	130
02-17	1645	5.77	318				

GREAT MIAMI RIVER BASIN

03274750 Whitewater River near Hagerstown, Ind.

LOCATION.--Lat 39°52'25", long 85°09'47", in NE¹/₄NE¹/₄ sec.3, T.16 N., R.12 E., Wayne County, on left bank at downstream side of bridge on Jerry Meyers Road, 1 mile upstream from Pronghorn Run, 1.5 miles north of Interstate 70, 2.0 miles downstream from Nettle Creek and 2.6 miles south of Hagerstown.

DRAINAGE AREA.--58.7 sq mi.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 950.00 ft above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

EXTREMES.--Current year: Maximum discharge, 1,640 cfs Feb. 22 (gage height, 9.12 ft); minimum daily, 11 cfs Aug. 29-31, Sept. 5, 19. Period of record: Maximum discharge, 1,640 cfs Feb. 22, 1971 (gage height, 9.12 ft); minimum daily, 11 cfs Aug. 29-31, Sept. 5, 19, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	15	18	20	17	68	41	21	39	23	16	12
2	14	18	17	20	17	60	43	21	133	21	17	12
3	12	18	23	25	17	55	37	23	61	20	17	13
4	12	17	29	446	750	49	35	21	48	20	19	13
5	13	17	21	76	677	46	34	22	41	20	17	11
6	13	17	20	48	67	51	33	144	37	21	16	39
7	13	15	20	38	39	62	32	90	46	20	15	22
8	14	15	20	34	32	52	30	159	48	20	15	16
9	15	17	19	30	27	47	28	80	37	22	16	14
10	15	18	18	28	24	50	27	96	34	23	16	14
11	13	17	18	26	23	51	27	64	33	24	19	17
12	26	17	23	25	263	135	27	221	55	21	15	14
13	25	17	24	31	50	141	29	79	41	20	15	14
14	25	17	23	61	31	94	30	58	36	18	14	13
15	22	17	21	33	23	174	28	48	33	20	13	13
16	19	17	29	27	20	102	27	45	31	23	14	12
17	17	17	37	26	683	71	26	48	30	19	14	12
18	17	17	31	25	250	62	25	41	28	18	14	12
19	17	17	27	24	464	74	25	43	89	19	14	11
20	20	25	25	23	605	69	24	46	43	18	13	35
21	20	20	26	22	103	59	25	38	46	18	12	21
22	18	20	52	21	1,050	56	24	35	33	17	12	18
23	18	19	44	21	196	51	24	34	30	17	13	16
24	15	18	33	21	99	47	22	44	29	29	13	15
25	15	18	30	23	84	45	21	157	28	19	15	18
26	17	18	26	21	341	43	23	62	26	21	14	20
27	17	18	25	19	163	40	24	48	24	18	13	18
28	17	18	23	18	86	38	24	43	26	22	12	17
29	20	17	23	17	-----	37	23	39	25	21	11	16
30	18	18	22	17	-----	35	23	36	23	19	11	15
31	17	-----	21	17	-----	35	-----	34	-----	18	11	-----
TOTAL	528	529	788	1,283	6,201	1,999	841	1,940	1,233	629	446	493
MEAN	17.0	17.6	25.4	41.4	221	64.5	28.0	62.6	41.1	20.3	14.4	16.4
MAX	26	25	52	446	1,050	174	43	221	133	29	19	39
MIN	12	15	17	17	17	35	21	21	23	17	11	11
CFSM	.29	.30	.43	.71	3.76	1.10	.48	1.07	.70	.35	.25	.28
IN.	.33	.34	.50	.81	3.93	1.27	.53	1.23	.78	.40	.28	.31

WTR YR 1971 TOTAL 16,910 MEAN 46.3 MAX 1,050 MIN 11 CFSM .79 IN 10.72

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0500	6.96	988	02-20	0115	8.88	1,560
02-04	1800	8.63	1,490	02-22	1100	9.12	1,640
02-12	1730	6.35	805	02-26	1345	6.42	826
02-17	1845	7.82	1,250				

03274950 Little Williams Creek at Connersville, Ind.

LOCATION.--Lat 39°38'16", long 85°10'20", in SW¼NE¼ sec.27, T.14 N., R.12 E., Fayette County, on downstream right bank wingwall of bridge on State Highway 44, 1 mile west of Connersville, and 2.6 miles upstream from mouth.

DRAINAGE AREA.--8.62 sq mi.

PERIOD OF RECORD.--September 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 842.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 482 cfs Feb. 22 (gage height, 5.99 ft); maximum gage height, 6.32 ft Feb. 4 (backwater from ice); minimum daily discharge, 0.46 cfs, Aug. 30 to Sept. 1, Sept. 16-19, 24.

Period of record: Maximum discharge, 684 cfs Apr. 2, 1970 (gage height, 7.82 ft); minimum daily, 0.46 cfs Aug. 30 to Sept. 1, Sept. 16-19, 24, 1971.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	3.1	6.2	4.0	2.5	9.0	7.8	3.1	4.1	1.1	2.0	.46
2	1.5	3.7	5.6	4.0	2.4	8.5	8.6	3.1	5.6	.98	1.8	.58
3	1.4	3.5	5.9	6.5	2.0	7.5	6.5	3.1	3.9	.99	1.9	1.1
4	1.4	3.3	6.8	41	120	6.5	5.6	2.9	3.5	.84	2.3	1.1
5	1.4	3.3	5.5	12	191	6.0	5.6	3.1	3.2	.94	2.0	.98
6	1.4	3.1	5.5	7.8	104	12	5.6	80	3.0	.84	1.7	2.3
7	1.3	3.1	5.0	6.0	10	13	5.0	41	6.4	.84	1.5	1.7
8	1.5	2.9	5.0	5.0	6.0	10	5.1	23	9.0	.84	1.4	1.1
9	2.4	3.1	5.0	5.0	5.0	8.2	4.9	11	3.9	.84	1.4	.70
10	3.5	3.3	5.0	4.5	4.5	10	4.1	9.0	3.3	16	1.3	.58
11	2.1	3.1	5.6	4.5	4.5	12	4.1	8.5	3.1	4.6	2.1	.98
12	5.6	2.9	7.9	4.5	152	16	4.1	8.8	5.0	2.4	1.3	.98
13	6.5	2.9	6.8	7.8	112	16	4.6	7.4	4.0	2.0	.84	.70
14	13	3.9	6.2	12	34	14	5.1	6.8	3.3	1.8	.84	.70
15	5.6	4.6	5.9	6.2	7.0	24	4.1	6.3	3.1	1.7	.84	.58
16	4.1	3.9	12	5.0	5.0	14	4.1	5.9	2.9	1.8	.84	.46
17	3.5	3.7	12	4.5	130	11	3.9	5.6	2.4	1.4	.70	.45
18	3.3	3.5	9.3	4.0	22	9.7	3.7	5.1	2.3	1.4	.70	.46
19	3.1	3.3	8.6	4.0	76	15	3.5	5.1	16	1.5	.58	.46
20	3.9	17	7.2	3.5	31	13	3.5	4.8	4.6	1.1	.58	5.9
21	4.1	9.0	10	3.5	12	11	3.5	4.4	4.6	.98	.58	1.3
22	3.7	7.5	29	3.5	212	9.7	3.3	4.2	3.1	.98	.98	.70
23	3.5	6.0	14	3.5	21	8.6	3.3	4.2	2.6	.98	.84	.58
24	3.1	5.5	10	3.5	12	7.8	3.3	5.2	2.3	4.1	.58	.46
25	3.1	5.0	9.0	4.0	12	7.5	3.1	8.1	2.1	1.8	1.4	.98
26	2.9	5.9	7.5	3.5	32	6.8	3.1	4.8	2.0	2.0	1.3	2.8
27	2.9	5.9	6.0	3.5	23	6.5	3.7	4.3	1.8	1.5	.70	1.2
28	3.1	5.4	5.0	3.0	11	6.5	4.4	4.2	1.7	19	.58	.91
29	4.1	6.5	4.5	3.0	-----	6.2	3.3	3.9	1.7	6.2	.58	.77
30	3.5	6.8	4.0	3.0	-----	5.9	3.3	3.7	1.4	2.6	.46	.73
31	3.3	-----	4.0	2.5	-----	5.6	-----	3.5	-----	2.3	.46	-----
TOTAL	105.3	144.7	240.4	198.3	1,355.9	317.5	133.8	294.1	115.9	86.24	34.98	32.71
MEAN	3.40	4.82	7.75	6.07	44.4	10.2	4.46	9.49	3.86	2.78	1.13	1.09
MAX	13	17	29	41	212	24	8.6	80	16	19	2.3	5.9
MIN	1.3	2.9	4.0	2.5	2.0	5.6	3.1	2.9	1.4	.84	.46	.46
CFSM	.39	.56	.90	.70	5.61	1.19	.52	1.10	.45	.32	.13	.13
IN.	.45	.62	1.04	.81	5.85	1.37	.58	1.27	.50	.37	.15	.14

CAL YR 1970 TOTAL 3,012.52 MEAN 8.25 MAX 200 MIN .58 CFSM .96 IN 13.00
WTR YR 1971 TOTAL 3,049.93 MEAN 8.36 MAX 212 MIN .46 CFSM .97 IN 13.16

PEAK DISCHARGE (BASE, 180 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	0830	---	about 400	02-22	0630	5.99	482
02-12	1645	5.79	450	05-06	0600	5.64	426
02-17	0800	5.53	409				

GREAT MIAMI RIVER BASIN

03275000 Whitewater River near Alpine, Ind.

LOCATION.--Lat 39°34'23", long 85°09'27", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.14, T.13 N., R.12 E., Fayette County, on right bank 500 ft downstream from highway bridge, 0.4 mile downstream from Wilson Creek, 1.6 miles northeast of Alpine, and 4.7 miles upstream from Bear Creek.

DRAINAGE AREA.--529 sq mi.

PERIOD OF RECORD.--October 1928 to current year. Prior to October 1936, published as West Fork Whitewater River near Alpine.

GAGE.--Water-stage recorder. Datum of gage is 750.19 ft above mean sea level. Prior to Nov. 9, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--43 years, 534 cfs (13.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,200 cfs Feb. 22 (gage height, 12.91 ft); minimum daily, 86 cfs Sept. 19.
Period of record: Maximum discharge, 37,100 cfs Jan. 14, 1937 (gage height, 16.61 ft); minimum daily, 30 cfs Aug. 6, 1934.

REMARKS.--Records poor. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1143: 1943-44(M), 1947(M). WSP 1335: 1929-30, 1932(M), 1938, 1946-47(M), 1949-50.
WSP 1505: 1942(P). WSP 1908: 1937(M), 1944, 1949(M), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	143	143	190	120	782	326	213	282	201	112	90
2	130	148	140	180	115	650	374	207	405	192	110	90
3	128	150	140	200	110	572	362	210	464	186	120	96
4	126	145	150	2,280	3,470	488	334	207	354	180	116	92
5	128	143	165	1,200	7,070	435	322	207	310	178	114	90
6	128	140	158	440	1,140	446	322	1,370	286	120	108	92
7	128	138	150	330	548	584	314	1,180	318	120	104	126
8	128	135	148	280	320	524	310	2,020	668	140	102	120
9	136	135	145	250	270	440	300	1,330	415	138	102	106
10	153	138	143	230	240	446	293	859	314	219	102	98
11	140	135	143	220	220	464	282	692	279	183	114	100
12	160	130	150	210	1,110	554	279	984	342	140	106	108
13	204	133	170	220	1,230	1,340	279	1,020	500	133	102	100
14	219	135	180	326	342	984	289	674	430	130	100	98
15	201	140	170	310	260	1,330	279	536	354	126	98	94
16	180	138	180	240	230	1,410	268	464	261	130	98	92
17	168	138	231	220	3,020	810	261	482	240	126	100	90
18	158	133	237	200	3,480	626	254	470	228	122	98	87
19	155	133	210	195	2,090	656	251	405	350	122	96	86
20	163	195	192	190	5,810	734	244	400	415	120	96	163
21	170	178	195	180	1,380	620	240	374	330	118	94	138
22	165	168	415	175	8,640	554	237	342	272	116	94	112
23	160	155	596	170	4,540	506	234	322	261	118	96	100
24	155	145	440	165	1,390	446	228	318	261	145	94	94
25	153	143	362	160	880	420	222	754	237	135	96	94
26	150	143	322	150	1,630	400	219	638	225	128	102	106
27	148	140	314	140	2,290	374	222	430	216	126	98	104
28	148	138	293	160	1,150	358	240	366	213	163	94	98
29	153	140	270	175	-----	346	225	330	225	222	92	94
30	153	145	240	150	-----	334	219	307	210	128	92	92
31	148	-----	210	130	-----	318	-----	289	-----	120	92	-----
TOTAL	4,768	4,320	7,002	9,666	53,095	18,951	8,229	18,400	9,665	4,525	3,142	3,050
MEAN	154	144	226	312	1,896	611	274	594	322	146	101	102
MAX	219	195	596	2,280	8,640	1,410	374	2,020	668	222	163	163
MIN	126	130	140	130	110	318	219	207	210	116	92	86
CFSM	.29	.27	.43	.59	3.58	1.16	.52	1.12	.61	.28	.19	.19
IN.	.34	.30	.49	.68	3.73	1.33	.58	1.29	.68	.32	.22	.21

CAL YR 1970 TOTAL 174,723 MEAN 479 MAX 7,330 MIN 104 CFSM .91 IN 12.29
WTR YR 1971 TOTAL 144,813 MEAN 397 MAX 8,640 MIN 86 CFSM .75 IN 10.18

PEAK DISCHARGE (BASE, 6,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0400	11.76	8,860	02-22	2345	12.91	11,200
02-20	1200	11.16	7,780				

03275500 East Fork Whitewater River at Richmond, Ind.

LOCATION.--Lat 39°48'24", long 84°54'26", in NW¼SW¼ (revised) sec.8, T.13 N., R.1 W., Wayne County, on left bank 50 ft downstream from highway bridge, 0.8 mile south of Richmond, and 2 miles upstream from Short Creek.

DRAINAGE AREA.--121 sq mi.

PERIOD OF RECORD.--April 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 854.01 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 27, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 117 cfs (13.13 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,940 cfs Feb. 22 (gage height, 6.36 ft); minimum daily, 8.3 cfs Aug. 24.
Period of record: Maximum discharge, 15,000 cfs July 20, 1969 (gage height, 12.68 ft), from rating curve extended above 5,000 cfs on basis of contracted-opening measurement of peak flow at stage of 12.44 ft; minimum daily, 1.2 cfs Aug. 1, 1954.
Flood in March 1913 reached a stage of 15.0 ft (discharge not determined), from floodmarks.

REMARKS.--Records good except those for January, which are poor. Some regulation at low flow by powerplant upstream from station. During periods of low flow, the City of Richmond diverts a small amount of water for municipal supply which is returned at the sewage plant below the gage.

REVISIONS (WATER YEARS).--WSP 1235: 1951. WSP 1908: Drainage area, 1960.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	24	19	20	15	127	72	29	53	19	16	12
2	17	33	19	18	15	112	85	32	70	18	16	11
3	16	28	23	18	15	100	77	35	56	18	18	18
4	16	26	22	360	500	82	68	31	47	17	23	13
5	17	24	19	200	1,230	80	66	34	40	18	21	11
6	17	23	17	127	212	103	64	232	35	18	18	27
7	16	22	16	100	127	145	51	252	59	17	16	14
8	15	22	16	70	90	112	51	500	65	17	15	12
9	17	24	15	50	65	92	48	260	40	22	15	12
10	24	27	15	45	50	85	45	177	31	42	15	12
11	14	24	15	40	45	97	42	130	28	27	23	16
12	32	24	28	38	255	148	41	240	63	19	14	12
13	26	23	23	45	220	316	48	177	43	17	14	11
14	38	27	23	95	112	228	49	124	35	17	14	11
15	23	26	22	75	55	375	44	100	31	23	13	10
16	19	26	30	49	45	276	41	126	28	23	13	9.2
17	17	25	32	45	872	181	40	122	25	22	13	9.2
18	17	23	29	40	447	134	39	94	25	19	13	8.9
19	18	23	26	35	542	159	36	87	27	18	13	8.6
20	29	49	23	30	846	162	34	81	26	17	13	103
21	36	25	31	30	224	131	36	73	53	16	13	25
22	24	23	100	30	1,660	121	34	68	29	16	11	17
23	22	22	77	30	445	106	31	66	24	15	8.9	14
24	20	20	51	25	189	92	31	84	23	68	8.3	13
25	20	20	43	25	124	85	29	107	28	22	26	23
26	22	18	40	20	292	80	30	77	22	20	12	24
27	23	18	37	20	350	75	47	63	20	17	9.2	17
28	24	18	35	18	173	72	45	57	51	50	11	15
29	27	22	33	16	-----	70	35	52	27	31	11	14
30	25	22	30	15	-----	64	33	48	21	20	12	13
31	24	-----	25	15	-----	62	-----	45	-----	18	12	-----
TOTAL	672	731	934	1,744	9,215	4,072	1,392	3,603	1,125	701	450.4	515.9
MEAN	21.7	24.4	30.1	56.3	329	131	46.4	116	37.5	22.6	14.5	17.2
MAX	38	49	100	360	1,660	375	85	500	70	68	26	103
MIN	14	18	15	15	15	62	29	29	20	15	8.3	8.6
CFSM	.18	.20	.25	.47	2.72	1.08	.38	.96	.31	.19	.12	.14
IN.	.21	.22	.29	.54	2.83	1.25	.43	1.11	.35	.22	.14	.16

CAL YR 1970 TOTAL 34,854.0 MEAN 95.5 MAX 3,770 MIN 14 CFSM .79 IN 10.72
WTR YR 1971 TOTAL 25,155.3 MEAN 68.9 MAX 1,660 MIN 8.3 CFSM .57 IN 7.73

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0700	5.20	2,100	02-22	1300	6.36	2,940
02-17	1930	5.25	2,140				

GREAT MIAMI RIVER BASIN

03275600 East Fork Whitewater River at Abington, Ind.

LOCATION.--Lat 39°43'57", long 84°57'35", in NE¼SW¼ sec.2, T.12 N., R.2 W., Union County, at downstream side of center pier of bridge on county road at Abington, 3 miles downstream from Elkhorn Creek, and 8 miles southwest of Richmond.

DRAINAGE AREA.--200 sq mi (revised).

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 791.00 ft above mean sea level.

AVERAGE DISCHARGE.--6 years, 225 cfs (15.28 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,380 cfs Feb. 22 (gage height, 11.32 ft); minimum daily, 26 cfs Sept. 19.

Period of record: Maximum discharge, 13,400 cfs July 20, 1969 (gage height, 16.18 ft); minimum daily, 21 cfs Aug. 8, Sept. 12, 1966.

REMARKS.--Records good. Records of water quality for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ind. 1969: 1968(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	47	63	58	40	311	137	75	84	5	41	29
2	39	6	58	56	38	261	184	75	158	47	39	28
3	30	61	63	64	36	225	151	48	104	43	40	34
4	35	55	76	897	2,820	184	131	80	68	41	48	32
5	35	52	64	454	2,510	166	125	82	80	41	44	28
6	37	50	57	239	395	221	125	1,150	69	48	39	35
7	35	48	54	165	190	340	112	613	125	43	36	39
8	35	45	54	135	130	240	104	1,030	162	42	34	31
9	37	47	54	110	95	196	104	558	88	43	34	30
10	69	63	51	95	80	217	96	395	71	125	35	29
11	40	52	54	90	70	239	91	284	64	78	48	32
12	64	51	91	85	725	345	91	400	141	51	35	32
13	102	50	82	99	465	613	102	311	96	47	32	29
14	107	57	73	205	100	454	112	221	80	43	32	29
15	88	64	67	154	80	707	96	177	71	42	30	29
16	60	58	91	96	115	553	91	284	63	57	30	28
17	51	57	141	83	2,060	365	88	476	57	49	30	28
18	47	55	110	72	974	288	86	192	55	44	30	27
19	45	51	93	67	1,100	335	82	169	60	44	30	28
20	64	141	76	63	1,670	325	80	147	57	43	30	200
21	115	86	93	60	437	266	80	121	110	41	29	66
22	73	69	300	52	4,190	234	80	104	64	39	28	43
23	63	60	252	57	1,000	209	75	93	55	39	28	38
24	57	54	158	56	437	184	73	102	52	131	27	35
25	54	54	125	72	306	169	69	257	55	54	35	36
26	51	52	93	56	606	162	69	151	54	48	38	55
27	50	51	80	53	768	144	93	121	47	44	29	39
28	50	50	72	50	426	144	115	110	144	209	28	36
29	58	60	67	45	-----	137	84	99	104	177	28	33
30	52	67	63	43	-----	125	80	88	57	61	28	32
31	49	-----	60	40	-----	121	-----	84	-----	50	29	-----
TOTAL	1,736	1,757	2,899	3,879	21,865	6,488	3,006	8,207	2,515	1,914	1,044	1,188
MEAN	56.0	56.9	93.5	125	711	274	100	265	83.8	61.7	33.7	39.6
MAX	115	141	360	897	4,190	707	184	1,150	162	209	48	200
MIN	35	45	51	40	36	121	69	75	47	39	27	26
CFSM	.28	.29	.47	.63	3.91	1.37	.50	1.33	.42	.31	.17	.20
IN	.32	.33	.54	.72	4.07	1.58	.56	1.53	.47	.36	.19	.22

CUL YR 1970 TOTAL 66,373 MEAN 162 MAX 6,206 MIN 35 CFSM .91 IN 12.35
 CUL YR 1971 TOTAL 54,508 MEAN 160 MAX 4,190 MIN 26 CFSM .80 IN 10.88

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	1445	10.25	5,100	02-22	1030	11.32	6,380
02-17	1830	9.72	4,460	05-06	0600	8.69	3,340

03276000 East Fork Whitewater River at Brookville, Ind.

LOCATION.--Lat 39°26'02", long 85°00'12", In NE¼NE¼ sec.20, T.9 N., R.2 W., Franklin County, on right bank 100 ft upstream from bridge on State Highway 101, 1.4 miles northeast of Brookville, and 1.8 miles upstream from mouth.

DRAINAGE AREA.--380 sq mi.

PERIOD OF RECORD.--March 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 621.76 ft above mean sea level. Prior to May 22, 1954, nonrecording gage at site 100 ft downstream at datum 2.00 ft higher. May 22, 1954, to Aug. 20, 1965, water-stage recorder at site 165 ft downstream at datum 2.00 ft higher.

AVERAGE DISCHARGE.--17 years, 376 cfs (13.44 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,890 cfs Feb. 22 (gage height, 9.74 ft); minimum daily, 25 cfs Sept. 17, 18, 19. Period of record: Maximum discharge, 36,100 cfs Jan. 21, 1959; maximum gage height, 17.35 ft May 24, 1968; minimum daily discharge, 17 cfs Sept. 11, 1964.

REMARKS.--Records good except those for January, which are poor.

REVISIONS (WATER YEARS).--WSP 1555: 1954(M), 1955(P). WSP 1908: 1955, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	53	68	112	125	90	596	243	126	183	129	99	33
2	53	68	105	120	90	502	400	119	243	104	24	31
3	51	105	102	120	85	442	325	122	221	90	23	20
4	50	96	136	1,490	2,000	365	275	122	196	90	133	53
5	46	84	122	556	5,000	325	243	119	179	81	112	43
6	47	78	108	430	956	382	252	1,520	167	81	90	37
7	48	73	93	340	484	667	252	1,270	230	81	76	63
8	48	66	92	280	300	502	217	2,040	325	73	66	53
9	48	63	90	230	200	368	204	1,110	221	71	59	41
10	86	81	90	210	120	412	191	715	179	221	56	35
11	86	90	90	190	100	496	183	532	159	261	63	63
12	73	78	108	175	320	628	175	550	163	140	78	45
13	219	76	140	187	622	956	179	557	225	115	56	43
14	215	81	122	400	112	771	208	424	400	87	51	37
15	215	126	115	320	126	1,110	187	355	394	78	49	33
16	149	119	136	204	175	1,150	175	320	196	81	47	29
17	120	108	275	180	3,060	750	171	680	155	84	45	25
18	105	105	243	160	2,710	589	163	418	129	78	45	25
19	94	102	204	150	1,740	615	151	342	1,610	73	43	25
20	99	315	171	140	3,510	635	147	436	454	71	43	130
21	187	270	191	130	1,060	538	143	300	355	63	41	212
22	179	187	808	120	7,670	484	147	261	261	58	41	100
23	133	147	628	120	3,500	436	133	239	204	53	37	78
24	112	119	400	110	1,040	370	133	230	171	151	35	66
25	99	115	295	110	654	345	122	388	155	147	37	61
26	84	108	221	105	908	325	115	385	151	93	47	105
27	81	108	190	105	1,740	300	119	48	133	44	54	96
28	76	102	150	100	900	290	179	230	119	70	34	73
29	78	96	150	100	-----	270	151	221	275	376	35	63
30	84	115	140	95	-----	252	129	204	159	167	33	50
31	76	-----	130	90	-----	239	-----	191	-----	120	31	-----
TOT L	3,094	3,349	6,031	7,592	39,272	16,130	5,712	14,798	8,103	3,483	1,816	1,324
MEAN	99.8	112	195	245	1,403	520	190	477	270	112	58.6	40.8
MAX	219	315	868	1,490	7,670	1,150	400	2,040	1,610	370	133	212
MIN	46	63	90	90	85	239	115	119	119	53	31	25
CFS	26	29	51	64	3.69	1.37	50	1.26	.71	29	15	16
IN.	.30	.33	.59	.74	3.54	1.58	.55	1.45	.79	.34	.18	.18

CAL YR 1970 TOTAL 119,094 MEAN 325 MAX 8,300 MIN 46 CFSM .86 IN 11.66
WTR YR 1971 TOTAL 111,209 MEAN 305 MAX 7,670 MIN 25 CFSM .80 IN 10.09

PEAK DISCHARGE (BASE, 4,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	Unknown	Unknown	about 8,500	02-22	0900	9.74	9,890
02-17	1815	7.84	6,190	06-19	1315	9.58	9,500

GREAT MIAMI RIVER BASIN

03276500 Whitewater River at Brookville, Ind.

LOCATION.--Lat 39°24'24", long 85°00'46", in NE 1/4 sec. 32, T.9 N., R.2 W., Franklin County, on right bank at downstream side of highway bridge, 0.3 mile downstream from East Fork Whitewater River, and 1.1 miles south of Brookville.

DRAINAGE AREA.--1,224 sq mi.

PERIOD OF RECORD.--June 1915 to September 1917, October 1917 to May 1920 (gage heights only), and July 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 595.71 ft above mean sea level. Prior to July 1923, nonrecording gage at same site at datum 1.5 ft higher. July 1923 to Sept. 27, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--50 years (1915-17, 1923-71), 1,252 cfs (13.89 inches per year).

EXTREMES.--Current year: Maximum discharge, 29,000 cfs Feb. 22 (gage height, 16.34 ft); minimum daily, 148 cfs Sept. 19.
Period of record: Maximum discharge, 81,800 cfs Jan. 21, 1959 (gage height, 27.78 ft), from rating curve extended above 45,000 cfs on basis of contracted-opening measurement of peak flow; minimum daily, 60 cfs July 27, 1934.
Flood of Mar. 25, 1913, reached a stage of 39.0 ft, present datum, from floodmarks (discharge not determined).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1915-17, 1929, 1930(M), 1933(M), 1934, 1935(m), 1936. WSP 1505: 1916(M). WSP 1908: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	226	321	435	500	340	2,330	924	455	551	341	249	150
2	210	321	417	480	330	1,980	1,360	445	677	357	259	150
3	210	345	403	470	320	1,760	1,130	447	821	324	244	238
4	218	377	466	4,800	4,720	1,500	969	441	702	310	314	480
5	215	353	475	3,480	13,700	1,360	877	439	605	294	280	210
6	215	335	457	1,630	3,770	1,510	476	3,170	545	298	256	178
7	215	321	412	1,270	1,700	2,350	848	3,390	744	242	220	190
8	202	307	408	1,040	940	1,840	790	5,090	1,040	243	220	214
9	208	301	349	918	780	1,480	740	2,920	418	277	210	194
10	200	331	390	800	720	1,520	692	1,980	659	490	205	178
11	301	357	381	700	680	1,930	658	1,590	560	1,010	204	365
12	203	335	417	680	3,000	2,120	638	1,580	550	555	229	317
13	743	328	440	640	4,210	2,690	634	1,900	873	377	204	235
14	805	335	505	620	1,250	2,500	694	1,410	942	307	220	194
15	858	475	445	1,000	940	3,370	658	1,160	1,130	243	192	192
16	541	466	550	424	800	3,410	621	1,000	659	271	190	164
17	471	430	1,170	650	7,050	2,310	602	1,290	545	265	182	160
18	412	408	942	560	7,910	1,860	580	1,060	480	253	188	150
19	377	340	843	500	4,140	1,990	553	1,110	4,500	253	180	145
20	377	1,440	723	440	10,200	2,130	533	1,550	2,250	238	182	495
21	555	1,040	772	440	4,070	1,890	531	942	1,280	226	172	665
22	560	737	2,890	440	20,900	1,670	529	786	474	223	172	373
23	455	611	2,050	430	12,800	1,490	506	702	702	220	182	243
24	439	500	1,470	420	4,070	1,310	494	671	575	328	160	241
25	403	471	1,110	420	2,690	1,220	474	1,110	520	398	165	214
26	301	462	865	410	2,890	1,150	456	1,260	475	292	180	744
27	301	457	700	403	5,540	1,060	454	926	439	262	180	439
28	338	435	600	420	3,240	1,010	528	779	403	253	165	310
29	331	417	600	440	-----	452	505	702	540	926	158	262
30	353	444	560	427	-----	893	468	635	435	462	154	235
31	338	-----	520	370	-----	841	-----	587	-----	334	150	-----
TOTAL	12,029	13,590	23,065	20,925	123,700	55,425	20,231	41,527	26,093	11,050	6,304	8,373
AFSN	386	463	744	849	4,418	1,788	674	1,340	870	355	203	279
MIN	855	1,440	2,890	4,860	20,900	3,410	1,360	5,090	4,500	1,010	314	744
MIN	202	301	381	370	320	440	454	439	403	220	150	148
CFSM	.32	.38	.51	.71	3.61	1.45	.55	1.04	.71	.29	.17	.23
IN.	.37	.42	.70	.42	3.76	1.68	.61	1.26	.79	.34	.19	.25

CAL YR 1970 TOTAL 413,543 MEAN 1.113 MAX 29,000 MIN 202 CFSM .43 IN 12.97
 YR 1971 TOTAL 368,613 MEAN 1.010 MAX 20,900 MIN 148 CFSM .43 IN 11.20

PEAK DISCHARGE (BASE, 12,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0700	11.66	16,800	02-22	1600	16.34	29,000
02-17	1900	11.13	15,500				

03276700 South Hogan Creek near Dillsboro, Ind.
(Hydrologic bench-mark station)

LOCATION.--Lat 39°01'47", long 85°02'17", in SW 1/4 sec. 7, T. 4 N., R. 2 W., Dearborn County, on left downstream abutment of bridge on county road at Dillsboro Station, 1.2 miles northeast of Dillsboro, and 1.5 miles downstream from Whitaker Creek.

DRAINAGE AREA.--38.2 sq mi.

PERIOD OF RECORD.--July 1961 to current year. Occasional low-flow measurements, water year 1960.

GAGE.--Water-stage recorder. Datum of gage is 571.00 ft above mean sea level.

AVERAGE DISCHARGE.--10 years, 35.8 cfs (12.73 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,920 cfs Feb. 22 (gage height, 8.80 ft, from graph based on wire-weight gage readings); minimum daily, 0.17 cfs July 9.

Period of record: Maximum discharge, 13,000 cfs Apr. 29, 1970 (gage height, 12.7 ft, from floodmark); no flow at times most years.

Flood of Jan. 21, 1959, reached a stage of 14.00 ft (discharge, 16,300 cfs, computed from contracted-opening).

REVISIONS.--The maximum discharge for the water year 1969 has been revised to 2,110 cfs Jan. 30, 1969 (gage height, 5.75 ft, from floodmark), superseding figure published in WRD Ind. 1969.

REMARKS.--Records fair. Records of chemical analysis for the current year are published in Part 2 of this report.

REVISIONS.--Revised figure of discharge in cubic feet per second, for high-water period in water year 1970, superseding figure published in WRD Ind. 1970 is given below:

Apr. 29, 1970-----2,170												
Month	Cfs-days	Maximum	Minimum	Mean	Per square mile	Runoff in inches						
Apr. 1970	7,106.2	2,170	9.2	237	6.20	6.92						
Water Year 1970	15,021.64	2,170	.03	41.2	1.08	14.63						
DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	4.2	5.9	5.0	5.0	37	18	3.6	2.0	1.6	.95	.95
2	1.1	14	5.6	4.5	4.0	32	72	3.8	1.9	.75	.55	26
3	.85	22	5.1	7.0	3.0	30	35	4.3	1.7	.50	58	140
4	.75	13	5.6	381	250	29	24	3.8	1.6	.45	138	50
5	.47	9.6	5.6	84	318	27	20	3.6	1.4	.40	33	15
6	.45	6.9	5.0	43	57	187	20	8.3	1.1	.35	10	136
7	.40	6.1	4.5	23	23	140	18	45	1.1	.30	4.9	52
8	.37	5.4	4.0	15	16	68	16	75	1.3	.22	3.2	17
9	.42	5.4	4.0	12	12	49	14	25	.75	.17	2.3	9.3
10	.65	5.4	3.5	16	9.0	83	12	16	.55	36	1.9	5.9
11	4.3	5.6	4.3	10	7.0	170	11	13	.50	30	1.4	66
12	3.6	5.4	43	9.0	268	96	10	15	.47	6.4	.95	20
13	18	5.1	30	41	140	60	11	12	.75	2.9	.75	9.9
14	47	6.9	18	258	78	43	14	9.3	17	1.7	.50	6.6
15	31	22	14	76	30	120	12	7.6	76	.95	.47	4.7
16	11	17	178	45	15	69	11	6.6	11	.75	.45	3.8
17	6.4	12	120	35	582	40	9.9	5.9	4.3	.50	.42	3.2
18	4.5	9.6	49	25	174	30	9.3	5.1	2.5	.65	.40	2.3
19	3.6	7.9	35	18	213	89	9.6	4.5	13	4.0	.35	2.3
20	24	200	25	16	273	67	7.9	4.3	19	1.4	.27	79
21	44	49	32	15	144	57	7.4	4.0	5.6	1.1	.22	31
22	20	24	369	14	1,960	41	7.1	3.2	3.4	.65	108	13
23	11	16	313	13	164	32	6.6	2.9	2.2	.47	18	8.6
24	7.6	9.9	81	12	74	25	6.4	3.4	1.4	1.1	5.4	6.4
25	6.4	8.3	44	11	54	23	5.6	40	.95	.95	24	4.9
26	5.6	8.5	20	9.5	75	21	5.1	13	.65	1.3	13	35
27	4.5	8.0	12	8.0	111	19	4.9	7.1	.50	.75	5.4	76
28	4.2	7.5	9.5	7.0	51	17	4.9	4.3	.45	.95	3.2	32
29	4.2	6.6	7.5	6.0	-----	15	4.3	3.6	.42	1.1	2.3	16
30	4.2	6.4	6.0	7.0	-----	13	4.0	2.9	2.6	2.2	1.7	10
31	4.3	-----	5.5	6.0	-----	12	-----	2.5	-----	1.7	1.3	-----
TOTAL	276.46	527.7	1,464.6	1,232.0	5,110.0	1,741	410.0	358.6	176.09	102.26	441.28	882.85
MEAN	8.92	17.6	47.2	39.7	183	56.2	13.7	11.6	5.87	3.30	14.2	29.4
MAX	47	200	369	381	1,960	187	72	75	76	36	138	140
MIN	.37	4.2	3.5	4.5	3.0	12	4.0	2.5	.42	.17	.22	.95
CFSM	.23	.46	1.24	1.04	4.79	1.47	.36	.30	.15	.09	.37	.77
IN.	.27	.51	1.43	1.20	4.98	1.70	.40	.35	.17	.10	.43	.86
CAL YR 1970	TOTAL 16,162.06	MEAN 44.3	MAX 2,170	MIN .03	CFSM 1.16	IN 15.74						
WTR YR 1971	TOTAL 12,722.84	MEAN 34.9	MAX 1,960	MIN .17	CFSM .91	IN 12.39						

PEAK DISCHARGE (BASE, 2,500 CFS).--Feb. 22 (0400) 6,000 cfs (8.80 ft).

LAUGHERY CREEK BASIN

03277000 Laughery Creek near Farmers Retreat, Ind.

LOCATION.--Lat 38°57'08", long 85°04'15", NW 1/4 sec. 2, T.4 N., R.3 W., Ohio County, on right bank 2.4 miles southeast of Farmers Retreat and 3.8 miles downstream from Bear Creek.

DRAINAGE AREA.--248 sq mi.

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 528.54 ft above mean sea level (levels by Indiana Department of Natural Resources). Prior to Apr. 16, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--31 years, 266 cfs (14.57 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,850 cfs Feb. 22 (gage height, 11.33 ft); minimum daily, 7.0 cfs Aug. 20, 21.
Period of record: Maximum discharge, 47,800 cfs Jan. 21, 1959 (gage height, 21.13 ft), from rating curve extended above 14,000 cfs on basis of slope-area measurement of peak flow; no flow at times in most years.

REMARKS.--Records good. Some regulation at low flow by mill above the station.

REVISIONS (WATER YEARS).--WSP 973: 1942(M). WSP 1275: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	30	53	70	40	359	101	45	31	63	43	16
2	15	52	50	65	35	274	244	46	27	34	31	385
3	14	67	49	60	30	240	401	48	25	26	25	283
4	12	50	52	957	869	220	229	49	25	20	417	230
5	11	45	52	1,190	2,060	205	166	44	22	17	293	184
6	9.1	41	43	405	791	355	142	51	21	14	124	128
7	9.1	41	39	218	288	1,140	131	126	18	13	67	179
8	8.3	39	37	150	150	613	127	394	18	12	45	102
9	8.7	38	38	110	130	359	115	378	16	12	33	55
10	13	39	36	90	110	384	101	190	13	12	26	45
11	24	39	35	80	100	764	90	134	12	11	21	128
12	17	39	90	75	435	660	82	121	12	57	18	100
13	53	36	87	107	1,510	442	79	120	16	62	15	61
14	102	39	70	886	633	325	89	106	41	55	15	47
15	148	79	63	757	353	439	81	86	102	37	12	36
16	152	70	414	315	259	925	83	74	63	29	9.4	30
17	87	69	423	206	1,240	394	79	63	35	22	8.7	39
18	55	76	331	161	2,810	264	75	56	24	66	7.6	27
19	41	66	211	126	1,100	323	64	47	93	498	7.3	22
20	112	549	139	110	1,930	458	64	42	471	54	7.0	194
21	141	585	121	90	902	428	62	128	307	29	7.0	129
22	78	307	818	70	6,570	394	63	93	119	21	480	137
23	57	148	2,330	60	4,140	303	59	60	67	16	72	104
24	61	104	877	60	780	224	57	47	51	15	31	64
25	55	44	402	55	459	181	55	110	37	24	22	46
26	47	70	223	50	423	161	51	85	29	19	55	49
27	40	66	140	50	953	144	49	100	24	19	27	288
28	36	58	110	45	657	134	51	67	112	72	21	247
29	36	55	90	50	-----	126	47	50	262	102	17	112
30	35	55	85	57	-----	113	50	41	119	37	15	72
31	34	-----	75	51	-----	103	-----	34	-----	36	14	-----
TOTAL	1,523.2	3,036	7,583	6,776	29,757	11,457	3,092	3,035	2,211	1,505	1,991.5	3,539
MEAN	49.1	101	245	219	1,063	370	103	97.9	73.7	48.5	64.2	116
MAX	152	585	2,330	1,190	6,570	1,140	401	394	471	498	480	385
MIN	8.3	30	35	45	30	103	47	34	12	11	7.0	16
CFS	1.20	.41	.49	.48	4.29	1.44	.42	.39	.30	.20	.24	.48
IN.	.23	.46	1.14	1.02	4.46	1.72	.46	.46	.33	.23	.31	.53

CAL YR 1970 TOTAL 86,691.8 MEAN 238 MAX 6,930 MIN 1.3 CFSM .96 IN 13.00
WTR YR 1971 TOTAL 75,505.7 MEAN 207 MAX 6,570 MIN 7.0 CFSM .83 IN 11.33

PEAK DISCHARGE (BASE, 6,000 CFS).--Feb. 22 (0330) 9,850 cfs (11.33 ft).

03291780 Indian-Kentuck Creek near Canaan, Ind.

LOCATION.--Lat 38°52'41", long 85°15'26", in SW 1/4 sec. 13, T.5 N., R.11 E., Jefferson County, on downstream end of left pier of bridge on State Highway 62, 1,500 ft upstream from Wilson Fork, and 2.0 miles northeast of Canaan.

DRAINAGE AREA.--27.5 sq mi.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 590 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 3,210 cfs Feb. 22 (gage height, 11.02 ft), from rating curve extended above 600 cfs; minimum daily, 0.12 cfs July 13, 15.

Period of record: Maximum discharge, 3,210 cfs Feb. 22, 1971 (gage height, 11.02 ft), from rating curve extended above 600 cfs; no flow for many days in 1970.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.96	1.1	4.1	3.0	2.5	35	13	5.7	2.3	12	5.0	.96
2	.64	1.2	3.7	2.5	2.0	30	42	6.4	1.8	3.7	3.1	10
3	.48	4.1	2.8	2.5	1.5	27	23	6.0	1.8	1.8	3.1	95
4	.32	3.7	3.7	138	50	22	18	5.0	2.0	1.1	91	20
5	.32	3.1	3.1	61	201	20	16	5.0	1.2	.64	35	10
6	.28	2.5	2.8	25	60	58	16	8.8	.84	.56	16	90
7	.24	2.0	2.8	15	15	72	16	40	.56	.36	10	30
8	.18	1.6	1.2	8.0	7.0	45	14	25	.42	.28	7.0	10
9	1.1	1.6	1.4	6.0	5.0	34	13	21	.32	.24	5.7	6.0
10	10	2.8	1.6	5.0	4.0	76	11	16	.32	.20	4.1	4.5
11	3.7	3.7	1.4	4.5	3.5	76	10	30	.24	.22	3.1	50
12	1.8	3.4	8.4	4.0	96	52	10	13	.24	.18	1.8	9.0
13	33	2.8	27	9.0	97	41	10	12	.28	.12	1.2	5.5
14	44	4.7	10	150	66	34	12	10	.48	.14	.84	4.0
15	18	18	7.0	55	17	60	10	9.8	12	.12	.64	3.0
16	5.2	13	150	25	7.0	41	9.2	8.0	8.0	.32	.42	2.5
17	5.7	10	65	15	102	30	8.8	7.3	2.5	.74	.32	2.0
18	3.7	7.7	30	12	56	25	8.0	6.4	1.2	51	.28	1.5
19	2.5	6.0	17	10	136	52	7.3	5.4	50	105	.24	1.5
20	7.7	158	10	8.0	146	42	7.0	4.7	28	18	.20	30
21	29	43	15	7.0	47	36	8.4	3.7	10	9.2	.20	20
22	14	23	244	7.0	701	30	10	3.1	8.0	5.7	70	8.0
23	8.0	15	416	6.5	96	25	8.0	2.8	4.1	3.7	10	4.5
24	5.7	10	73	6.0	60	21	7.7	4.1	3.4	7.3	3.7	2.5
25	3.7	8.0	25	5.0	55	19	7.0	27	1.2	8.8	39	1.5
26	2.8	5.0	15	5.0	80	17	6.7	9.2	.96	5.0	34	25
27	2.0	4.7	9.5	4.0	110	16	6.7	6.4	.64	3.1	8.8	55
28	1.2	4.4	7.0	3.5	50	15	7.3	4.7	42	29	4.7	4.4
29	1.2	3.7	5.0	3.0	-----	14	6.4	4.1	135	34	3.1	3.4
30	1.4	4.4	4.0	3.5	-----	12	5.7	3.1	10	12	1.8	2.3
31	1.4	-----	3.5	3.0	-----	10	-----	2.8	-----	7.7	1.1	-----
TOTAL	214.22	372.2	1,170.0	612.0	2,273.5	1,087	348.2	315.5	329.80	322.22	365.44	512.06
MEAN	6.91	12.4	37.7	19.7	81.2	35.1	11.6	10.2	11.0	10.4	11.8	17.1
MAX	44	158	416	150	701	76	42	40	135	105	91	95
MIN	.18	1.1	1.2	2.5	1.5	10	5.7	2.8	.24	.12	.20	.96
CFSM	.25	.45	1.37	.72	2.55	1.28	.42	.37	.40	.38	.43	.62
IN.	.29	.50	1.58	.83	3.08	1.47	.47	.43	.45	.44	.49	.69

CAL YR 1970 TOTAL 8,582.11 MEAN 23.5 MAX 888 MIN 0 CFSM .85 IN 11.61
WTR YR 1971 TOTAL 7,922.14 MEAN 21.7 MAX 701 MIN .12 CFSM .79 IN 10.72

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-23	0530	5.88	878	02-22	0700	11.02	3,210
02-04	2400	5.48	481	07-19	0300	6.22	678
02-19	2200	6.22	678	08-22	0630	5.16	405

SILVER CREEK BASIN

03293800 Deam Lake near Sellersburg, Ind.

LOCATION.--Lat 38°27'50", long 85°51'30", in NE¼NW¼ sec.4, T.1 S., R.6 E., Clark County, in intake tower of reservoir on Big Run, 1 mile above mouth, and 7.2 miles northwest of Sellersburg.

DRAINAGE AREA.--3.74 sq mi.

PERIOD OF RECORD.--January 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft above mean sea level (levels by Indiana Department of Natural Resources).

EXTREMES.--Current year: Maximum contents, 3,534 acre-ft in February (gage height, 38.28 ft, rangeline), minimum, 2,804 acre-ft Oct. 8, 9 (gage height, 34.77 ft).

Period of record: Maximum contents, 3,534 acre-ft in February 1971 (gage height, 38.28 ft, rangeline); minimum contents since reaching minimum pool elevation of 535.00 ft, 944 acre-ft Oct. 30, 31, 1969 (gage height, 21.82 ft).

REMARKS.--Reservoir is formed by earth fill dam. Releases normally controlled by a sluice gate into 42-inch diameter pipe. Minimum design capacity is 2,850 acre-ft (elevation, 535 ft). Capacity at uncontrolled spillway elevation (555.1 ft) is 8,440 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on Jan. 14, 1965.

COOPERATION.--Capacity tables furnished by Indiana Department of Natural Resources.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	34.89	2,828	-
Oct. 31.....	34.98	2,846	+18
Nov. 30.....	35.13	2,876	+30
Dec. 31.....	35.83	3,016	+140
Calendar year 1970.....	-	-	+1,989
Jan. 31.....	-	-	-
Feb. 28.....	-	-	-
Mar. 31.....	35.67	2,984	-
Apr. 30.....	35.40	2,930	-54
May 31.....	35.51	2,952	+22
June 30.....	35.31	2,912	-40
July 31.....	35.22	2,894	-18
Aug. 31.....	35.14	2,878	-16
Sept. 30.....	35.23	2,896	+18
Water year 1971	-	-	+68

SILVER CREEK BASIN

41

03294000 Silver Creek near Sellersburg, Ind.

LOCATION.--Lat 38°22'15", long 85°43'35", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ lot 68, Clark Military Grant, Clark County, on upstream side of Straws Mill Bridge on Watson Road, 0.3 mile downstream from Pleasant Run, 2.4 miles southeast of Sellersburg, and 11.9 miles upstream from mouth.

DRAINAGE AREA.--188 sq mi.

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Nonrecording gage and crest-stage gage. Altitude of gage is 430 ft (from topographic map).

AVERAGE DISCHARGE.--17 years, 205 cfs (14.81 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,940 cfs Feb. 23 (gage height, 23.62 ft); minimum daily, 3.3 cfs Oct. 7.

Period of record: Maximum discharge, 19,600 cfs Jan. 22, 1959 (gage height, 30.89 ft, from floodmarks), from rating curve extended above 6,300 cfs on basis of contracted-opening measurements of peak flow, at site 5.2 miles upstream, (drainage area, 164 sq mi), adjusted to gage site; no flow at times in most years.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1705: 1955-58.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	35	48	85	45	280	90	46	25	15	14	5.6
2	6.3	32	43	75	40	235	171	50	22	17	11	6.1
3	5.8	30	34	70	35	200	154	55	21	11	25	5.3
4	4.5	32	30	1,460	182	190	118	50	20	7.8	421	4.5
5	4.5	31	33	778	2,410	190	99	42	17	6.2	421	4.6
6	4.2	29	33	264	855	383	131	537	14	9.8	140	5.1
7	3.3	28	31	166	423	452	282	2,120	13	7.2	85	6.6
8	6.1	22	24	130	220	246	179	2,310	12	7.2	52	4.1
9	16	20	25	110	160	189	146	1,100	11	6.6	37	8.4
10	9.3	22	25	100	140	229	124	430	9.4	5.3	28	7.2
11	8.1	26	26	95	120	495	107	268	9.1	121	21	9.8
12	25	26	53	90	790	304	97	224	8.4	29	17	2.8
13	194	24	70	219	1,570	244	88	242	10	16	17	21
14	304	25	52	1,560	533	194	107	211	13	9.1	12	13
15	198	60	42	640	202	403	102	154	22	6.4	10	9.8
16	98	53	306	320	135	290	88	126	24	5.6	9.8	4.1
17	53	44	705	242	763	187	78	107	15	5.3	8.1	9.8
18	38	39	249	190	1,090	145	70	91	11	86	6.4	18
19	32	36	166	135	728	168	65	78	8.4	408	6.0	11
20	65	791	132	100	1,430	302	60	70	10	63	5.6	25
21	119	354	516	90	768	190	53	59	357	23	7.8	82
22	84	179	2,240	80	5,360	195	54	50	203	14	5.2	29
23	59	128	1,180	70	5,860	153	53	41	60	12	5.3	17
24	46	91	590	65	978	133	48	46	39	11	5.1	12
25	41	75	244	65	360	122	44	103	23	9.8	4.7	9.8
26	32	67	206	60	230	112	39	66	16	4.1	7.2	15
27	26	66	150	55	753	103	39	50	12	10	6.6	17
28	24	61	120	50	405	98	114	43	9.1	23	6.1	18
29	25	56	100	56	-----	91	85	36	11	104	6.6	12
30	50	52	95	64	-----	80	52	30	7.5	44	5.1	11
31	46	-----	90	52	-----	60	-----	24	-----	22	4.7	-----
TOTAL	1,034.2	2,534	7,698	7,536	26,585	6,683	2,937	8,863	1,054.3	1,130.3	1,613.3	476.2
MEAN	52.7	84.5	248	243	949	216	97.9	246	35.1	36.5	52.0	15.9
MAX	304	791	2,240	1,560	5,860	495	282	2,310	357	408	621	82
MIN	3.3	20	24	50	35	80	39	28	7.5	5.3	4.7	4.1
CFS	.24	.45	1.32	1.29	5.05	1.15	.52	1.52	.19	.19	.24	.04
IN.	.32	.50	1.52	1.49	5.26	1.32	.58	1.75	.21	.22	.32	.04

CAL YR 1970 TOTAL 87,316.7 MEAN 234 MAX 6,610 MIN 2.6 CFSM 1.27 IN 17.2H
 WTR YR 1971 TOTAL 68,744.3 MEAN 184 MAX 5,860 MIN 3.3 CFSM 1.00 IN 13.60

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-22	1900	14.50	2,680	02-23	0300	23.62	7,940
02-05	1300	15.48	3,020				

BUCK CREEK BASIN

03302220 Buck Creek near New Middletown, Ind.

LOCATION.--Lat 38°07'13", long 86°05'16", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.32, T.4 S., R.4 E., Harrison County, at downstream end of pier of bridge on State Highway 337, 0.5 mile downstream from South Fork Buck Creek, 3.6 miles southwest of New Middletown, and 14.6 miles upstream from mouth.

DRAINAGE AREA.--65.2 sq mi, of which 28.1 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 500 ft (from topographic map).

EXTREMES.--Current year: Maximum discharge, 8,240 cfs Feb. 22 (gage height, 11.56 ft); minimum daily, 3.1 cfs Aug. 30, 31.
Period of record: Maximum discharge, 12,700 cfs Apr. 2, 1970 (gage height, 14.40 ft); minimum daily, 1.7 cfs Oct. 1, 1969.

REMARKS.--Records fair except those for periods of no gage-height record, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	29	25	40	25	121	45	30	20	6.0	14	15
2	7.7	30	22	35	20	105	112	30	20	50	14	4.4
3	6.4	28	21	35	2	97	82	35	25	25	39	5.3
4	5.4	25	24	470	60	82	67	30	20	10	52	4.4
5	4.4	23	20	253	562	77	60	24	15	6.0	45	3.3
6	4.5	21	18	142	217	136	64	103	20	6.0	32	6.3
7	4.0	20	16	90	141	217	72	840	18	6.5	25	52
8	5.1	17	15	75	45	150	64	500	16	7.5	21	19
9	7.7	17	16	60	75	117	62	280	16	25	18	9.6
10	8.5	21	14	55	65	285	52	170	15	20	16	6.3
11	6.7	17	17	50	55	289	49	120	13	330	14	70
12	52	17	85	45	261	197	47	100	13	230	12	35
13	513	17	75	100	377	147	46	150	12	160	10	13
14	355	22	57	580	217	117	41	120	21	270	9.6	12
15	199	54	44	255	151	259	38	100	29	109	8.2	8.9
16	112	54	215	156	114	187	35	80	22	55	7.5	6.3
17	82	46	279	110	251	130	35	65	14	33	6.9	5.8
18	64	41	154	85	233	107	30	55	10	153	6.3	4.4
19	52	35	115	70	275	124	30	50	8.9	109	6.3	4.4
20	102	241	83	64	418	109	25	80	8.2	62	5.8	19
21	130	129	465	55	285	99	25	55	311	44	5.3	16
22	44	96	1,260	51	2,980	94	25	45	163	35	5.3	16
23	75	70	413	46	540	82	25	35	51	30	5.8	12
24	62	56	253	40	327	71	25	30	25	27	4.8	10
25	50	49	180	37	223	65	20	70	15	25	4.0	8.0
26	41	44	126	35	193	63	20	50	10	24	5.8	12
27	35	39	98	25	184	55	20	35	4.0	21	4.4	40
28	32	33	70	25	142	53	85	40	8.0	17	4.0	25
29	38	29	60	25	-----	47	60	35	7.0	28	3.3	20
30	35	27	50	31	-----	42	45	30	6.0	21	3.1	15
31	31	-----	45	25	-----	39	-----	25	-----	14	3.1	-----
TOTAL	2,224.3	1,357	4,345	3,165	8,506	3,763	1,406	3,412	941.1	1,943.0	411.9	487.2
MEAN	71.4	45.2	140	102	304	121	46.9	110	31.4	63.3	13.3	16.2
MAX	513	241	1,260	580	2,980	289	112	840	311	330	52	70
MIN	4.0	17	14	25	20	39	20	24	6.0	6.0	3.1	3.3
CFS	1.10	.64	2.15	1.56	4.66	1.86	.72	1.69	.48	.97	.20	.25
IN	1.27	.77	2.48	1.81	4.85	2.15	.80	1.95	.54	1.12	.24	.28

CAL YR 1970 TOTAL 36,090.2 MEAN 98.4 MAX 3,000 MIN 2.4 CFSM 1.52 IN 20.59
WTR YR 1971 TOTAL 31,941.5 MEAN 87.6 MAX 2,980 MIN 3.1 CFSM 1.34 IN 18.25

PEAK DISCHARGE (BASE, 1,000 CFS, REVISED)

NOTE.--No gage-height record Apr. 16 to May 4,
May 7 to June 9, June 24 to July 13.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-13	0100	6.32	1,540	02-22	0415	11.56	8,240
12-22	0415	8.24	3,490	06-21	1730	6.37	1,580
01-04	0715	5.63	1,070	07-11	Unknown	8.60	3,940
02-05	0630	5.75	1,140				

03302300 Little Indian Creek near Galena, Ind.

LOCATION.--Lat 38°19'19", long 85°55'53", in NE¼SW¼ sec.23, T.2 S., R.5 E., Floyd County, on right bank at downstream side of county road bridge, 2 miles south of Galena, 3.6 miles upstream from mouth, and 7.0 miles northwest of New Albany.

DRAINAGE AREA.--16.1 sq mi.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 703.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 3,130 cfs Feb. 22 (gage height, 7.44 ft), from rating curve extended above 400 cfs on basis of indirect measurement at 7.34 ft; minimum daily discharge, 0.08 cfs Aug. 30, 31.

Period of record: Maximum discharge, 3,130 cfs Feb. 22, 1971 (gage height, 7.44 ft), from rating curve extended above 400 cfs on basis of indirect measurement at 7.34 ft; no flow at times in most years.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	6.1	5.8	7.0	4.0	27	15	8.3	2.8	3.8	.64	.09
2	1.1	6.4	5.2	6.5	3.5	23	26	12	2.9	1.3	.56	.18
3	1.0	6.4	5.2	6.0	3.5	24	18	9.0	2.5	.68	3.2	.17
4	.82	5.8	4.3	230	5.0	21	16	8.0	2.3	.40	26	.11
5	.82	5.2	4.0	59	132	21	14	8.0	2.2	.96	6.2	.10
6	.82	4.6	3.7	37	54	30	19	210	2.0	2.5	3.2	.25
7	.82	4.3	3.4	20	34	45	22	242	1.8	.96	2.2	1.5
8	1.4	3.7	3.4	15	18	33	19	148	2.3	.68	1.7	.61
9	2.2	4.3	3.4	10	14	26	16	48	1.9	.50	1.3	.39
10	1.6	5.5	3.1	9.0	12	67	14	26	1.6	7.1	1.2	.17
11	1.2	4.6	3.7	8.5	10	54	13	18	1.5	4.0	.98	6.0
12	8.2	4.6	7.4	8.0	94	38	13	17	2.4	2.1	.77	2.1
13	66	4.3	5.8	130	90	31	13	28	1.8	1.4	.68	.66
14	94	7.0	4.9	158	55	26	14	18	3.4	.86	.60	.43
15	32	12	4.6	59	25	38	12	14	2.3	.60	.56	.26
16	17	8.6	66	37	22	29	11	12	2.1	.42	.48	.16
17	12	7.9	48	20	108	23	10	9.3	1.7	.27	.42	.29
18	8.6	7.0	28	16	61	21	10	7.4	1.4	34	.39	.16
19	7.4	6.7	21	14	140	34	9.2	9.0	1.2	4.8	.34	.12
20	26	111	15	12	120	29	8.6	7.4	1.7	1.7	.29	10
21	22	31	108	10	126	26	8.6	5.2	8.9	1.2	.22	2.9
22	15	22	213	8.0	1,110	23	9.9	4.5	9.9	.92	.19	.94
23	12	14	61	7.0	108	19	8.3	4.0	2.4	.77	.22	.63
24	9.0	12	34	6.0	56	16	7.7	5.8	1.8	.82	.11	.37
25	7.8	11	26	5.5	39	15	6.9	16	1.2	.77	.26	.33
26	6.7	8.6	20	5.0	46	15	6.4	5.6	.96	3.4	2.2	2.8
27	6.4	7.4	12	5.0	43	13	10	6.0	.78	1.5	.36	1.7
28	6.1	6.4	10	4.5	33	13	18	4.8	.60	.92	.16	.71
29	9.0	6.1	9.0	5.0	-----	12	10	4.0	.42	1.4	.10	.45
30	7.8	5.5	8.0	6.0	-----	10	9.0	3.5	.86	.87	.08	.33
31	6.7	-----	7.5	5.0	-----	10	-----	3.1	-----	.77	.03	-----
TOTAL	392.58	349.9	754.4	929.0	2,566.0	821	387.6	921.9	69.52	82.37	55.69	34.91
MEAN	12.7	11.7	24.3	30.0	91.6	26.5	12.9	29.7	2.32	2.66	1.80	1.16
MAX	94	111	213	230	1,110	67	26	242	9.8	34	26	10
MIN	.82	3.7	3.1	4.5	3.5	10	6.4	3.1	.42	.27	.08	.09
CFSM	.79	.73	1.51	1.86	5.69	1.65	.80	1.84	.14	.17	.11	.07
IN.	.91	.81	1.74	2.15	5.93	1.90	.90	2.13	.16	.19	.13	.08

CAL YR 1970 TOTAL 9,175.80 MEAN 25.1 MAX 750 MIN .42 CFSM 1.56 IN 21.20
WTR YR 1971 TOTAL 7,364.87 MEAN 20.2 MAX 1,110 MIN .08 CFSM 1.25 IN 17.02

PEAK DISCHARGE (BASE, 500 CFS, REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0545	4.35	645	02-22	0130	7.44	3,130
01-13	1930	4.03	502	05-06	1415	5.38	1,060
02-19	2045	4.47	675	07-18	1700	4.78	814

INDIAN CREEK BASIN

03302500 Indian Creek near Corydon, Ind.

LOCATION.--Lat 38°16'35", long 86°06'35", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.6, T.3 S., R.4 E., Harrison County, on upstream side of bridge on State Highway 335, 0.6 mile upstream from Raccoon Branch, and 4.5 miles north of Corydon.

DRAINAGE AREA.--129 sq mi.

PERIOD OF RECORD.--October 1943 to current year. Prior to October 1961, published as Big Indian Creek near Corydon.

GAGE.--Water-stage recorder. Datum of gage is 577.12 ft above mean sea level. Prior to Dec. 9, 1948, nonrecording gage, and Dec. 9, 1948, to June 12, 1952, recorder records for stages above 6.3 ft at same site and datum.

AVERAGE DISCHARGE.--28 years, 164 cfs (17.26 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,600 cfs Feb. 22 (gage height, 17.93 ft); minimum daily, 5.0 cfs Aug. 23, 24.
Period of record: Maximum discharge, 26,700 cfs Mar. 5, 1964 (gage height, 22.64 ft); no flow at times during 1943-44, 1951-54, 1959, 1965.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1275: Drainage area. WSP 1385: 1951(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	44	53	70	55	253	69	60	31	7.7	8.6	6.4
2	11	40	48	70	45	211	161	63	31	26	7.7	5.7
3	11	42	44	65	41	193	136	67	29	16	8.1	6.4
4	10	42	40	1,090	184	170	115	55	26	9.1	255	5.9
5	9.1	37	37	602	1,900	136	102	51	26	7.7	199	6.2
6	8.6	34	34	290	567	173	102	730	24	7.7	78	6.4
7	8.1	31	32	170	326	302	143	1,830	21	8.1	46	10
8	9.1	29	29	140	190	235	128	1,450	20	11	33	11
9	13	26	29	120	150	189	118	630	20	26	25	9.1
10	18	26	29	100	120	222	103	341	19	25	19	8.6
11	21	29	27	95	110	459	92	228	16	41	15	111
12	23	29	33	90	610	323	87	189	17	35	12	47
13	169	27	48	191	1,100	248	82	255	18	26	10	30
14	421	29	40	1,530	523	207	88	222	83	24	9.0	17
15	272	38	34	620	368	220	79	168	76	12	8.0	11
16	147	47	95	360	258	228	70	138	39	8.1	7.4	14
17	102	56	389	220	756	175	66	116	30	7.0	6.6	23
18	81	52	217	180	785	155	61	97	24	12	6.0	21
19	66	48	166	150	555	183	57	88	19	203	5.5	17
20	71	559	129	130	1,310	193	53	113	16	42	5.3	34
21	125	329	406	110	602	170	51	73	16	22	5.2	49
22	104	201	1,610	100	6,900	156	53	60	88	13	5.1	74
23	147	144	730	95	1,420	140	50	53	47	9.1	5.0	25
24	73	109	368	80	705	125	46	50	26	7.3	5.0	19
25	63	93	243	70	455	115	43	84	19	7.0	5.2	17
26	56	87	177	65	385	110	39	65	15	6.7	5.4	29
27	48	80	140	60	434	102	39	52	12	7.0	5.2	75
28	43	70	110	55	311	96	128	53	9.1	12	5.4	47
29	45	61	95	55	-----	88	95	44	8.1	13	5.4	30
30	58	57	85	55	-----	77	71	38	7.7	29	5.9	23
31	51	-----	80	65	-----	70	-----	35	-----	15	5.9	-----
TOTAL	2,236.9	2,496	5,597	7,093	21,164	5,744	2,527	7,498	832.9	695.5	822.2	824.7
MEAN	72.2	83.2	181	229	756	185	84.2	242	27.8	22.4	26.5	27.5
MAX	421	559	1,610	1,530	6,900	459	161	1,430	88	203	255	111
MIN	8.1	26	27	55	40	70	39	35	7.7	6.7	5.0	5.7
CFSM	.56	.65	1.40	1.78	5.86	1.43	.65	1.88	.22	.17	.21	.21
IN.	.65	.72	1.61	2.05	6.10	1.66	.73	2.16	.24	.20	.24	.24

CAL YR 1970 TOTAL 73,157.43 MEAN 200 MAX 8,010 MIN .69 CFSM 1.55 IN 21.10
WTR YR 1971 TOTAL 57,531.20 MEAN 158 MAX 6,900 MIN 5.0 CFSM 1.22 IN 16.59

PEAK DISCHARGE (BASE, 4,500 CFS).--Feb. 22 (1600) 10,600 cfs (17.93 ft).

03302800 Blue River at Fredericksburg, Ind.

LOCATION.--Lat 38°26'02", long 86°11'31", in NE 1/4 sec. 16, T.1 S., R.3 E., Washington County, attached to downstream side of bridge on U.S. Highway 150 at Fredericksburg and 0.5 mile downstream from South Fork Blue River.

DRAINAGE AREA.--283 sq mi, of which 76.9 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 590.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 9,790 cfs Feb. 22 (gage height, 20.43 ft); minimum daily, 7.5 cfs Aug. 31.
Period of record: Maximum discharge, 9,790 cfs Feb. 22, 1971 (gage height, 20.43 ft); minimum daily, 6.1 cfs Oct. 18, 1968.
Flood of Jan. 21, 1959 reached a stage of 29.20 ft, from floodmark on left upstream wingwall.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	57	82	140	90	552	132	66	56	22	36	39
2	15	51	73	130	80	474	288	73	58	30	28	23
3	13	51	67	120	70	417	260	79	55	27	32	15
4	12	51	64	1,130	353	363	208	68	48	20	210	13
5	11	48	62	873	2,810	323	184	66	44	20	417	10
6	11	45	57	510	939	328	186	922	39	21	170	9.3
7	10	41	51	300	612	426	260	1,990	36	19	100	16
8	11	38	48	250	360	366	235	2,020	47	16	70	18
9	14	38	48	210	290	313	210	946	50	15	52	13
10	29	39	47	180	250	369	182	576	37	66	64	9.3
11	32	45	46	170	220	651	162	420	32	142	52	1,140
12	22	43	50	164	657	534	156	348	36	61	38	411
13	204	42	55	223	1,790	453	150	288	50	37	30	164
14	303	41	49	1,550	897	384	166	235	166	27	27	92
15	253	53	45	911	681	555	160	192	405	23	24	57
16	138	68	114	600	510	585	146	168	396	20	21	85
17	86	67	516	390	1,050	438	138	146	158	16	19	144
18	64	64	335	300	1,670	363	126	127	103	423	18	73
19	52	59	260	250	1,060	390	115	112	75	922	17	45
20	60	1,230	198	225	1,560	375	108	102	58	164	16	399
21	114	579	295	210	964	320	108	93	62	86	15	375
22	102	353	1,570	190	6,940	298	106	79	96	57	14	172
23	79	250	1,310	178	3,700	263	97	72	68	44	14	109
24	65	180	848	154	1,220	228	92	71	47	41	13	75
25	56	148	576	140	831	210	83	218	37	44	13	79
26	48	132	408	132	702	202	75	130	32	39	12	218
27	42	123	280	120	841	186	73	99	29	32	14	134
28	38	106	230	109	657	178	90	94	25	66	15	92
29	45	94	190	99	-----	168	86	78	22	248	10	68
30	78	85	170	111	-----	148	71	67	22	79	8.4	55
31	66	-----	150	117	-----	136	-----	60	-----	48	7.5	-----
TOTAL	2,088	4,221	8,294	10,186	31,804	10,996	4,453	10,005	2,389	2,875	1,576.9	4,156.6
MEAN	67.4	141	268	329	1,136	355	148	323	79.6	92.7	50.9	139
MAX	303	1,230	1,570	1,550	6,940	651	288	2,020	405	922	417	1,140
MIN	10	38	45	99	70	136	71	60	22	15	7.5	9.3
CFSM	.24	.50	.95	1.16	4.01	1.25	.52	1.14	.28	.33	.18	.49
IN.	.27	.55	1.09	1.34	4.18	1.45	.59	1.32	.31	.38	.21	.55

CAL YP 1970 TOTAL 113,972.0 MEAN 312 MAX 6,780 MIN 10 CFSM 1.10 IN 14.98
WTR YR 1971 TOTAL 93,044.5 MEAN 255 MAX 6,940 MIN 7.5 CFSM .90 IN 12.23

PEAK DISCHARGE (BASE, 2,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	1215	9.38	2,310	02-18	0030	10.03	2,620
12-22	1345	9.07	2,190	02-22	1815	20.43	9,790
02-05	0900	11.96	3,580	05-07	0145	10.79	3,000
02-13	0230	9.87	2,540	07-19	0115	10.23	2,720

BLUE RIVER BASIN

03303000 Blue River near White Cloud, Ind.

LOCATION.--Lat 38°14'15", long 86°13'42", in NW¼SE¼ sec.19, T.3 S., R.3 E., Harrison County, on left bank 400 ft downstream from Spring Creek, 0.2 mile upstream from bridge on State Highway 62, and 0.8 mile north of White Cloud.

DRAINAGE AREA.--461 sq mi.

PERIOD OF RECORD.--October 1930 to current year. Monthly figures only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 434.26 ft above mean sea level (levels by Indiana Department of Natural Resources from adjusted elevation of U.S. Coast and Geodetic Survey bench mark). Prior to Nov. 16, 1938, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--41 years, 603 cfs (17.76 inches per year).

EXTREMES.--Current year: Maximum discharge, 13,200 cfs Feb. 23 (gage height, 14.43 ft); minimum daily, 53 cfs Oct. 7, 8, Sept. 2. Period of record: Maximum discharge, 28,500 cfs Jan. 22, 1959 (gage height, 23.07 ft); minimum daily, 9.6 cfs Oct. 17, 1964.

REMARKS.--Records good. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1335: 1931-32, 1933(M), 1935-38(M), 1944. WSP 1385: Drainage area. WSP 1555: 1953.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	79	252	259	350	252	1,230	394	283	217	101	160	54
2	70	224	241	330	210	1,070	665	275	211	96	126	53
3	66	214	231	336	190	950	736	295	196	99	133	87
4	60	202	220	1,330	453	862	610	283	187	102	291	78
5	57	196	211	2,320	4,090	774	540	267	179	99	857	67
6	54	184	199	1,260	2,810	752	510	692	168	137	620	63
7	53	173	182	830	1,400	829	590	4,870	160	126	381	76
8	53	162	176	640	960	851	620	3,990	157	96	279	115
9	63	155	168	540	720	758	570	2,940	173	211	227	93
10	82	160	145	480	620	824	520	1,500	160	363	193	81
11	85	170	162	440	580	1,210	471	1,080	145	394	162	560
12	90	168	179	444	992	1,200	444	901	135	354	160	1,640
13	345	168	179	620	3,310	1,050	435	785	135	275	133	555
14	752	168	176	2,390	2,170	912	430	675	327	309	113	327
15	686	199	173	2,250	1,450	906	435	585	950	193	104	211
16	475	227	245	1,380	1,120	1,200	412	520	1,010	162	96	165
17	340	248	635	1,060	1,230	992	394	471	550	140	90	224
18	255	245	796	800	3,020	840	376	426	354	130	85	287
19	214	238	605	640	2,100	813	358	390	252	1,170	81	196
20	227	1,990	505	590	2,680	846	340	363	202	615	76	403
21	309	2,070	719	525	2,230	780	331	327	176	327	73	851
22	358	1,000	2,250	500	9,230	714	349	309	399	245	72	555
23	322	736	2,710	466	11,000	660	336	283	319	193	70	363
24	271	565	1,960	430	3,250	600	313	275	234	162	66	255
25	241	457	1,230	360	1,990	555	295	291	173	150	63	214
26	217	399	956	330	1,560	530	279	439	142	137	64	304
27	199	367	700	300	1,680	500	248	340	126	133	63	485
28	184	336	550	280	1,500	475	471	291	117	113	60	345
29	193	300	460	291	-----	453	381	275	108	500	59	263
30	263	275	420	295	-----	421	327	252	101	421	60	224
31	259	-----	380	300	-----	394	-----	234	-----	231	59	-----
TOTAL	6,922	12,248	18,022	23,107	62,797	24,951	13,180	24,907	7,762	7,784	5,076	9,194
MEAN	223	408	581	745	2,043	805	439	803	259	251	164	306
MAX	752	2,070	2,710	2,390	11,000	1,230	736	4,870	1,010	1,170	857	1,640
MIN	53	155	145	280	190	394	248	234	101	96	59	53
CFS	.48	.49	1.26	1.62	4.87	1.75	.95	1.74	.56	.54	.36	.66
IN.	.56	.49	1.45	1.86	5.07	2.01	1.06	2.01	.63	.63	.41	.74

CAL YR 1970 TOTAL 265,192 MEAN 727 MAX 9,580 MIN 50 CFSM 1.58 IN 21.40
WTR YR 1971 TOTAL 215,950 MEAN 592 MAX 11,000 MIN 53 CFSM 1.28 IN 17.43

PEAK DISCHARGE (BASE, 7,500 CFS).--Feb. 23 (0900) 13,200 cfs (14.43 ft).

03303300 Middle Fork Anderson River at Bristow, Ind.

LOCATION.--Lat 38°08'19", long 86°43'16", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.4 S., R.3 W., Perry County, on left bank at downstream side of bridge on State Highway 145 at Bristow, 2.0 miles downstream from Dixon Branch, and 6.0 miles upstream from Sulphur Fork Creek.

DRAINAGE AREA.--41.9 sq mi.

PERIOD OF RECORD.--August 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 395.00 ft above mean sea level.

AVERAGE DISCHARGE.--10 years, 49.9 cfs (16.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 955 cfs Feb. 22 (gage height, 14.45 ft); minimum daily, no flow Oct. 6-8.

Period of record: Maximum discharge, 6,360 cfs Mar. 9, 1964; maximum gage height, 19.33 ft Mar. 4, 1964; no flow many days each year.

Flood of Jan. 21, 1959, reached a stage of 20.0 ft (from floodmark), discharge, 15,000 cfs (from rating curve extended above 7,000 cfs). This is the maximum flood since 1905, from information by local resident.

REMARKS.--Records good. Occasional regulation of Soil Conservation Service control structure No. 6 may affect peaks and recessions. Records of suspended-sediment loads for current year are published in Part 2 of this report.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.04	18	16	18	14	87	53	26	17	2.6	6.8	1.2
2	.03	16	14	17	13	73	157	27	20	2.3	5.0	3.3
3	.02	16	13	26	11	65	103	24	18	1.6	3.3	2.6
4	.01	15	17	276	137	57	76	21	17	1.2	6.3	1.8
5	.01	14	16	174	368	55	60	20	15	1.3	9.7	1.2
6	0	12	13	92	254	58	76	66	14	1.4	9.4	6.3
7	0	12	12	56	121	72	108	206	14	1.2	9.4	139
8	0	11	12	43	80	64	81	183	66	1.1	9.1	52
9	.05	12	12	35	60	56	67	118	30	5.5	8.1	24
10	.07	13	11	32	50	106	55	83	19	6.5	7.8	41
11	.06	13	11	30	42	122	47	68	16	7.4	7.1	73
12	.12	15	12	29	244	96	41	62	24	4.5	6.5	61
13	8.2	15	12	237	325	78	38	58	20	2.6	5.8	48
14	64	15	12	414	180	68	42	46	17	96	5.0	44
15	62	20	12	307	100	97	39	38	45	26	3.8	41
16	31	21	49	146	85	93	35	32	78	14	1.8	45
17	19	19	93	86	140	74	32	27	17	12	1.0	41
18	13	17	72	60	133	63	29	23	9.0	11	.88	39
19	10	16	55	45	117	73	26	22	8.1	10	.80	38
20	17	345	41	40	157	72	24	21	7.4	8.1	.69	120
21	25	234	214	33	141	66	22	19	7.1	5.2	.64	42
22	21	99	359	30	676	60	21	18	6.8	2.9	.60	18
23	17	62	243	26	415	53	20	18	6.3	1.7	.48	13
24	14	43	114	24	386	46	19	19	5.8	7.8	.44	11
25	12	33	70	22	337	42	19	30	4.7	7.4	1.1	11
26	11	28	52	20	222	40	18	20	3.3	4.7	10	12
27	11	24	41	18	163	37	23	26	2.3	2.8	4.5	11
28	11	21	34	17	114	35	60	23	1.8	11	2.9	10
29	17	19	27	16	-----	32	38	19	1.6	13	2.2	10
30	24	17	22	19	-----	30	31	17	1.4	10	1.7	9.7
31	22	-----	20	16	-----	26	-----	16	-----	8.7	1.3	-----
TOTAL	409.61	1,215	1,701	2,404	5,085	1,996	1,459	1,396	512.6	291.5	133.12	940.1
MEAN	13.2	40.5	54.9	77.5	182	64.4	48.6	45.0	17.1	9.40	4.29	31.3
MAX	64	345	359	414	676	122	157	206	79	96	10	120
MIN	0	11	11	16	11	26	18	16	1.4	1.1	.44	1.2
CFSM	.32	.97	1.31	1.85	4.34	1.54	1.16	1.07	.41	.22	.10	.75
IN.	.36	1.08	1.51	2.13	4.51	1.77	1.30	1.24	.46	.26	.12	.83

CAL YR 1970 TOTAL 21,735.84 MEAN 59.6 MAX 2,030 MIN 0 CFSM 1.42 IN 19.30
WTR YR 1971 TOTAL 17,542.93 MEAN 48.1 MAX 676 MIN 0 CFSM 1.15 IN 15.58

PEAK DISCHARGE (BASE, 2,000 CFS).--No peak above base.

PIGEON CREEK BASIN

03322100 Pigeon Creek at Evansville, Ind.

LOCATION.--Lat 37°59'45", long 87°31'30", in NW¼SW¼ sec.15, T.6 S., R.10 W., Vanderburgh County, on downstream side of center span of Oak Hill Road Bridge at Evansville, and 7.1 miles upstream from mouth.

DRAINAGE AREA.--326 sq mi.

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Nonrecording gage. Datum of gage is 352.24 ft above mean sea level. Prior to Oct. 1, 1968, water-stage recorder at same site and datum. Auxiliary water-stage recorder 1.3 miles downstream at same datum.

AVERAGE DISCHARGE.--10 years, 290 cfs (12.12 inches per year).

EXTREMES.--Current year: Maximum daily discharge, 1,970 cfs Sept. 7; maximum observed gage height, 16.99 ft Feb. 25 (backwater from Ohio River); minimum daily discharge, 5.1 cfs Aug. 20.

Period of record: Maximum discharge, 12,100 cfs May 10, 1961 (gage height, 27.94 ft); minimum daily (unaffected by backwater), 1 cfs Aug. 30 to Sept. 1, Oct. 11, 12, 21, 22, 26, 1964; zero or reverse flow occurs at times due to extreme stages on the Ohio River.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12	87	51	66	40	260	56	200	295	45	25	12
2	14	45	47	83	38	220	94	145	470	47	20	20
3	9.5	69	40	115	58	190	139	110	430	41	20	102
4	8.6	55	36	1,230	212	170	125	85	298	31	43	255
5	5.1	58	37	885	798	170	91	71	227	30	126	281
6	8.6	109	31	430	784	280	81	74	152	37	324	798
7	8.6	59	30	200	580	390	371	238	101	31	302	1,970
8	22	43	27	140	300	230	746	322	81	34	223	1,610
9	151	36	27	105	180	280	470	212	49	30	152	1,420
10	105	43	27	93	140	450	257	160	49	64	53	1,660
11	87	55	28	88	210	400	187	130	66	185	58	1,610
12	75	52	28	110	340	320	140	110	131	214	36	1,030
13	240	47	27	280	500	250	104	95	122	251	24	316
14	275	46	27	1,450	580	230	101	80	125	737	21	164
15	188	57	27	1,430	340	630	92	69	460	359	15	95
16	124	51	137	1,350	300	360	87	61	1,240	236	12	81
17	87	47	348	550	800	240	78	54	834	187	11	64
18	61	42	244	240	550	200	65	49	930	125	8.2	46
19	45	92	157	130	760	210	63	43	896	86	8.2	48
20	48	495	160	105	610	190	57	39	1,160	65	5.1	128
21	68	388	818	89	500	160	52	35	520	45	7.2	167
22	45	275	1,450	83	1,300	130	47	32	402	34	11	98
23	47	218	1,030	80	640	118	45	33	464	28	24	67
24	41	164	590	76	420	95	47	88	176	32	40	49
25	34	112	250	73	370	82	41	566	119	27	27	41
26	30	81	170	68	370	81	40	454	81	27	70	36
27	22	77	130	60	450	79	106	770	63	24	60	86
28	34	74	100	50	360	79	802	574	48	22	52	206
29	167	61	65	46	-----	81	502	364	43	21	26	306
30	139	57	73	47	-----	75	359	247	45	32	15	275
31	107	-----	68	44	-----	66	-----	170	-----	30	13	-----
TOTAL	2,321.4	3,295	6,340	9,798	12,530	6,716	5,449	5,720	10,077	3,157	1,831.7	13,041
MEAN	74.9	110	205	316	448	217	182	185	336	102	59.1	435
MAX	275	655	1,450	1,450	1,300	630	802	770	1,240	737	324	1,970
MIN	8.6	36	27	44	38	66	40	32	43	21	5.1	12
CFSM	.23	.34	.63	.57	1.37	.67	.56	.57	1.03	.31	.18	1.33
IN.	.26	.38	.72	1.12	1.43	.77	.62	.65	1.15	.36	.21	1.49
CAL YR 1970	TOTAL	147,822.4	MEAN	405	MAX	5,700	MIN	8.6	CFSM	1.24	IN	16.87
WTR YR 1971	TOTAL	80,274.1	MEAN	220	MAX	1,970	MIN	5.1	CFSM	.67	IN	9.16

03322500 Wabash River near New Corydon, Ind.

LOCATION.--Lat 40°33'50", long 84°48'10", in NE¼SE¼ sec.3, T.24 N., R.15 E., Jay County, on left bank, 10 ft downstream from county bridge on Indiana-Ohio State line road, 2 miles east of New Corydon, 2.8 miles downstream from Beaver Creek, and at mile 465.6.

DRAINAGE AREA.--262 sq mi.

PERIOD OF RECORD.--April 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 830.10 ft above mean sea level. Prior to June 24, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--20 years, 178 cfs (9.23 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,290 cfs Feb. 22 (gage height, 17.15 ft); minimum daily, 5.0 cfs Feb. 3.

Period of record: Maximum discharge, 8,720 cfs Jan. 22, 1959 (gage height, 20.47 ft, from floodmarks); minimum daily, 0.8 cfs Dec. 22, 23, 1963.

REMARKS.--Records poor. Occasional regulation by Grand Lake Reservoir, diversion from or into St. Marys River basin, and into Miami and Erie Canal. Records of chemical analyses for the current year are contained in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1555: 1957(P). WSP 1909: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.4	8.0	10	6.5	6.0	315	76	16	86	70	30	11
2	8.2	8.0	10	6.0	5.5	250	77	15	390	52	25	15
3	7.7	8.2	9.9	6.0	5.0	210	76	15	898	40	22	19
4	7.3	8.6	9.1	45	25	190	68	15	308	34	21	22
5	7.3	8.4	9.3	230	1,790	170	62	15	170	30	22	35
6	7.1	9.1	8.8	80	1,070	190	56	83	140	27	20	43
7	7.3	8.0	8.2	35	311	230	53	119	143	23	18	99
8	7.3	8.0	8.4	25	95	300	50	262	120	21	17	76
9	6.9	8.4	8.6	20	45	180	46	187	97	20	17	34
10	8.8	10	8.2	18	30	190	41	143	88	22	16	19
11	11	13	9.5	17	25	220	37	123	81	101	26	13
12	7.3	11	13	15	40	388	33	120	77	102	34	11
13	11	10	33	16	120	978	33	131	82	67	23	11
14	13	11	26	15	85	605	82	113	93	48	18	11
15	14	12	13	17	60	692	82	101	81	39	16	9.9
16	10	12	10	16	45	680	64	88	72	35	15	8.0
17	8.2	11	12	14	200	400	53	81	65	33	14	6.7
18	6.4	11	17	12	1,750	301	44	76	55	33	14	6.0
19	6.6	7.3	15	11	1,590	303	36	77	54	32	13	5.3
20	6.6	7.5	12	9.5	2,390	346	31	95	52	31	40	30
21	7.5	11	11	8.5	1,410	278	28	93	53	31	68	137
22	7.7	9.9	11	8.0	2,060	248	27	81	54	27	36	79
23	6.5	8.8	94	7.0	1,980	225	25	72	48	25	23	41
24	5.8	8.0	83	7.0	564	209	23	83	44	36	18	22
25	6.4	7.1	35	6.5	362	197	21	815	40	65	15	14
26	6.2	8.0	17	5.0	634	188	19	380	745	52	14	82
27	7.1	8.6	12	8.0	925	181	17	173	442	38	13	146
28	7.7	9.3	10	7.0	474	176	19	134	141	30	12	81
29	6.9	9.9	8.0	6.5	-----	165	21	115	93	28	12	47
30	7.7	11	7.5	6.0	-----	113	18	102	67	28	11	30
31	8.0	-----	7.0	6.0	-----	86	-----	93	-----	32	11	-----
TOTAL	248.3	282.7	546.5	693.5	18,096.5	9,204	1,318	4,016	4,883	1,252	654	1,163.9
MEAN	8.01	9.42	17.6	22.4	646	297	43.9	130	163	40.4	21.1	38.8
MAX	14	13	54	230	2,390	578	82	815	898	102	68	146
MIN	5.8	7.1	7.0	6.0	5.0	86	17	15	40	20	11	5.3
CFSM	.03	.04	.07	.05	2.47	1.13	.17	.50	.62	.15	.08	.15
IN.	.04	.04	.08	.10	2.57	1.31	.19	.57	.69	.18	.09	.17

CAL YR 1970 TOTAL 53,518.7 MEAN 148 MAX 3,240 MIN 5.8 CFSM .56 IN 7.66
 WTR YR 1971 TOTAL 42,358.4 MEAN 116 MAX 2,390 MIN 5.0 CFSM .44 IN 6.01

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-20	1800	16.58	2,640	02-22	2100	17.15	3,290

WABASH RIVER BASIN

03322900 Wabash River at Linn Grove, Ind.

LOCATION.--Lat 40°39'22", long 85°01'58", in SE¼SE¼ sec.34, T.26 N., R.13 E., Adams County, on right bank 10 ft downstream from bridge on State Highway 118, 800 ft downstream from Shoemaker ditch, 0.8 mile north of Linn Grove, and 2.2 miles upstream from Rice ditch.

DRAINAGE AREA.--453 sq mi.

PERIOD OF RECORD.--September 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 808.00 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 291 cfs (8.73 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,870 cfs Feb. 20 (gage height, 11.27 ft); minimum daily, 8.0 cfs Oct. 7.
Period of record: Maximum discharge, 6,620 cfs Dec. 11, 1966 (gage height, 13.01 ft); minimum daily, 5.1 cfs Oct. 8, 1964.
Flood in April 1964 reached a stage of 13.13 ft, from floodmark (discharge, 6,900 cfs).

REMARKS.--Records good except those for January, which are fair. Occasional regulation of Grand Lake Reservoir, diversion from or into St. Marys River basin, and into Miami and Erie Canal. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ind. 1966: 1964(M). WRD Ind. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.9	11	18	15	11	578	102	32	112	104	28	18
2	9.0	12	18	13	11	617	99	31	340	92	27	29
3	8.8	13	18	13	11	430	102	34	1,260	67	25	38
4	8.6	12	17	35	50	340	96	36	1,320	48	28	44
5	8.2	12	16	285	1,600	280	83	35	813	39	30	55
6	8.2	12	14	350	2,190	250	74	219	605	33	30	98
7	8.0	12	13	150	1,900	320	67	470	1,190	29	30	316
8	8.1	12	13	80	500	400	63	919	717	25	30	217
9	8.9	13	12	50	250	300	57	946	322	24	29	116
10	9.1	12	12	40	120	260	51	673	201	24	29	66
11	9.3	11	13	30	80	310	45	428	156	575	30	45
12	11	12	19	25	60	617	42	270	128	641	25	34
13	16	13	24	23	160	1,060	43	224	138	238	31	28
14	17	14	50	20	300	1,190	58	201	166	116	26	26
15	20	13	51	20	100	1,150	162	156	134	67	22	24
16	20	12	36	20	65	1,050	154	123	101	48	20	24
17	20	12	29	20	200	942	119	96	80	40	19	23
18	16	12	25	20	600	629	93	80	68	34	18	22
19	13	13	35	20	2,580	515	75	67	58	31	18	20
20	11	16	36	15	3,740	593	60	74	51	31	166	37
21	11	17	30	15	3,450	550	52	92	52	28	126	107
22	10	16	27	15	3,040	445	51	80	56	27	86	238
23	10	16	41	15	3,330	375	47	58	51	25	58	130
24	10	14	150	13	3,270	322	43	57	43	28	36	71
25	11	14	140	13	2,020	295	39	677	36	35	27	47
26	11	13	70	15	1,280	280	36	996	445	43	23	313
27	11	13	50	15	1,320	270	33	813	987	45	22	498
28	10	14	30	15	1,330	263	31	361	901	34	20	344
29	11	15	25	15	-----	258	33	224	358	29	19	172
30	11	17	20	13	-----	224	35	172	168	28	18	101
31	11	-----	15	13	-----	146	-----	138	-----	30	18	-----
TOTAL	357.1	398	1,071	1,401	33,568	15,659	2,045	8,782	11,057	2,658	1,114	3,301
MEAN	11.5	13.3	34.5	45.2	1,199	505	68.2	283	369	85.7	35.9	110
MAX	20	17	150	350	3,740	1,190	162	996	1,320	641	166	498
MIN	8.0	11	12	13	11	146	31	31	36	24	18	18
CFSM	.03	.03	.08	.10	2.65	1.11	.15	.62	.81	.19	.08	.24
IN.	.03	.03	.09	.12	2.76	1.29	.17	.72	.91	.22	.09	.27

CAL YR 1970 TOTAL 104,576.0 MEAN 287 MAX 5,500 MIN 8.0 CFSM .63 IN 8.59
WTR YR 1971 TOTAL 81,411.1 MEAN 223 MAX 3,740 MIN 8.0 CFSM .49 IN 6.69

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-06	1100	9.44	2,390	02-23	2300	11.18	3,780
02-20	0700	11.27	3,870				

03323000 Wabash River at Bluffton, Ind.

LOCATION.--Lat 40°44'30", long 85°10'19", in NW¼NE¼ sec. 4, T.26 N., R.12 E., Wells County, on downstream side of left abutment of Main Street Bridge in Bluffton, 2 miles downstream from Sixmile Creek, and at mile 434.5.

DRAINAGE AREA.--532 sq mi.

PERIOD OF RECORD.--October 1930 to September 1971 (discontinued). Gage-height records collected at same site since December 1910 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 793.01 ft above mean sea level. Prior to Mar. 31, 1934, nonrecording gage at same site and datum. Mar. 31 to Dec. 5, 1934, nonrecording gage at nearby site at same datum.

AVERAGE DISCHARGE.--41 years, 387 cfs (10.06 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,230 cfs Feb. 22 (gage height, 10.90 ft); minimum daily, 11 cfs Oct. 7, 8.
Period of record: Maximum discharge, 11,800 cfs Feb. 15, 1950 (gage height, 16.07 ft); minimum daily, 4.0 cfs July 18, 1936.
Maximum stage known, about 21.0 ft Mar. 25, 26, 1913, on basis of gage readings published in newspapers (discharge, 25,000 cfs, from rating curve extended above 11,700 cfs on basis of rainfall-runoff relation).

REMARKS.--Records good except those for winter periods, which are fair. Occasional regulation by Grand Lake Reservoir, diversion from or into St. Marys River basin, and into Miami and Erie Canal. Records of suspended sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 823: 1932-35. WSP 1505: 1936(M). WRD Ind. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	15	45	24	20	1,300	152	47	123	134	36	16
2	15	16	38	28	18	795	136	49	235	97	33	20
3	13	16	32	26	18	500	134	47	1,290	83	29	40
4	13	17	29	70	50	400	127	49	1,400	60	25	50
5	13	17	25	235	1,300	350	110	54	1,040	47	22	55
6	12	16	22	340	2,400	359	104	301	527	38	21	60
7	11	16	19	200	2,000	400	95	592	1,480	32	21	140
8	11	15	17	120	1,100	540	88	1,210	1,040	29	20	320
9	14	16	17	75	600	400	85	1,170	467	27	19	220
10	13	15	17	60	300	350	79	833	285	26	24	103
11	12	16	17	50	170	425	75	571	213	512	26	64
12	13	15	32	45	110	715	75	345	178	1,100	30	48
13	14	15	80	41	160	1,430	80	263	154	446	26	41
14	42	16	73	41	300	1,520	100	233	198	225	30	33
15	43	17	85	40	190	1,700	220	182	176	125	25	29
16	34	17	74	36	120	1,470	200	149	136	77	21	26
17	27	16	67	32	250	1,210	160	115	104	54	10	25
18	25	16	73	30	600	819	130	95	87	46	18	22
19	21	16	79	28	2,170	651	95	82	77	40	17	21
20	18	29	74	26	3,820	725	80	72	69	39	79	46
21	17	33	68	24	3,540	658	75	85	65	35	280	103
22	16	30	61	24	3,720	536	68	85	69	31	136	193
23	16	22	68	22	3,760	443	65	72	69	29	154	171
24	15	22	149	22	3,400	380	59	73	63	42	77	90
25	15	19	198	25	2,660	340	55	427	55	40	44	73
26	15	19	140	24	1,830	320	50	976	214	48	32	959
27	15	19	90	22	1,680	308	48	912	980	60	24	860
28	15	25	60	22	1,580	295	46	434	1,010	46	21	551
29	16	49	45	20	-----	285	44	248	536	38	18	293
30	15	68	35	20	-----	268	46	180	250	35	17	165
31	15	-----	30	20	-----	198	-----	143	-----	35	17	-----
TOTAL	550	638	1,859	1,796	37,866	20,090	2,881	10,095	12,634	3,680	1,373	4,750
MEAN	17.7	21.3	60.0	57.9	1,352	648	96.0	326	421	119	44.3	158
MAX	43	68	198	340	3,820	1,700	220	1,210	1,480	1,100	280	860
MIN	11	15	17	20	18	198	44	47	55	26	17	16
CFSM	.03	.04	.11	.11	2.54	1.22	.18	.61	.79	.22	.08	.30
IV.	.04	.04	.13	.13	2.65	1.40	.20	.71	.88	.26	.10	.33

CAL YR 1970 TOTAL 125,533.8 MEAN 344 MAX 4,523 MIN 9.8 CFSM .65 IV 8.78
WTR YR 1971 TOTAL 98,212.0 MEAN 269 MAX 3,820 MIN 11 CFSM .51 IV 5.97

PEAK DISCHARGE (BASE, 3,000 CFS).--Feb. 20 (1230) 4,000 cfs (10.57 ft). Feb. 22 (2330) 4,230 cfs (10.90 ft).

WABASH RIVER BASIN

03323450 Huntington Lake near Huntington, Ind.
(Formerly published as Huntington Reservoir near Huntington, Ind.)

LOCATION.--Lat 40°50'43", long 85°28'06", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.25, T.28 N., R.9 E., Huntington County, on right bank at upstream side of State Highway 5, 1.5 miles southeast of Huntington, and at mile 411.4.

DRAINAGE AREA.--717 sq mi.

PERIOD OF RECORD.--January 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 25,360 acre-ft Feb. 24 (elevation, 760.55 ft); minimum, 3,510 acre-ft Dec. 5 (elevation, 735.73 ft).

Period of record: Maximum contents observed, 40,060 acre-ft Feb. 4, 1969 (elevation, 769.71 ft); minimum, 240 acre-ft Mar. 5, 1969 (elevation, 733.84 ft); lowered reservoir for repairs.

REMARKS.--Reservoir is formed by concrete and rolled-earth fill dam which is State Highway 5. Releases normally controlled by six sluices, 6.0 ft wide and 6.0 ft high and by spillway (crest elevation, 765 ft), with three tainter gates, 45 ft by 36.5 ft setting atop spillway. Minimum design capacity is 4,100 acre-ft (elevation, 737 ft). Seasonal pool capacity is 12,500 acre-ft (elevation, 749 ft). Capacity at flood control pool is 153,100 acre-ft (elevation, 798 ft). Reservoir is used for flood control and recreation. Reservoir put into operation on Jan. 9, 1969.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	744.60	8,850	-
Oct. 31.....	736.82	4,030	-4,820
Nov. 30.....	739.02	5,200	+1,170
Dec. 31.....	737.37	4,310	-890
Calendar year 1970.....	-	-	+180
Jan. 31.....	736.88	4,060	-250
Feb. 28.....	752.45	15,810	+11,750
Mar. 31.....	737.38	4,310	-11,500
Apr. 30.....	742.15	7,120	+2,810
May 31.....	749.34	12,790	+5,670
June 30.....	748.78	12,280	-510
July 31.....	749.02	12,500	+220
Aug. 31.....	749.24	12,700	+200
Sept. 30.....	747.05	10,780	-1,920
Water year 1971	-	-	+1,930

03323500 Wabash River at Huntington, Ind.

LOCATION.--Lat 40°51'20", long 85°29'53", in SW¼NE¼ sec.27, T.28 N., R.9 E., Huntington County, on right bank at the Huntington Water and Light Plant, 2 miles south of Huntington, 2.4 miles downstream from Huntington Reservoir, 3.2 miles upstream from Little River, and at mile 409.

DRAINAGE AREA.--721 sq mi.

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 700.04 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 5, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--20 years, 561 cfs (10.56 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,260 cfs Feb. 24 (gage height, 14.40 ft); minimum daily, 8.8 cfs Aug. 18, 19. Period of record: Maximum discharge, 14,900 cfs Feb. 10, 1959; maximum gage height, 23.20 ft Feb. 10, 1959 (backwater from ice); minimum daily, 2.4 cfs Oct. 28, 29, 1964. Flood in March 1913 reached a stage of 22.7 ft (from high-water mark by Corps of Engineers).

REMARKS.--Records good except those for May, which are fair. Flow regulated by Huntington Reservoir (See sta 03323450). Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1909: 1959. WRD Ind. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	57	34	350	100	35	3,640	329	21	188	280	42	39
2	91	28	350	65	35	3,330	280	24	570	124	42	60
3	142	27	343	54	35	2,330	138	25	1,160	42	24	57
4	142	34	199	104	90	893	100	25	1,930	21	14	85
5	139	42	100	235	800	498	193	25	1,810	21	15	522
6	129	40	100	336	2,200	434	248	48	915	20	17	406
7	215	63	92	336	1,680	750	133	25	1,630	42	17	790
8	188	77	95	329	994	904	96	660	2,260	71	18	830
9	129	65	81	120	600	790	96	1,770	1,640	77	21	490
10	129	38	60	100	455	633	96	2,120	420	77	21	308
11	124	36	46	147	138	420	96	1,730	329	81	22	241
12	156	36	48	115	138	670	96	810	329	1,370	20	65
13	171	36	48	96	115	1,780	92	455	177	1,030	20	46
14	193	36	115	74	74	2,580	92	406	36	427	20	71
15	248	38	210	32	68	2,680	44	350	115	88	20	120
16	248	34	222	42	68	2,850	24	267	188	85	20	107
17	241	36	151	71	68	2,160	25	267	228	129	14	107
18	235	44	171	85	1,030	1,450	21	267	228	81	8.8	546
19	138	46	235	65	2,030	1,050	17	160	138	46	8.8	506
20	100	51	235	55	2,610	1,100	17	49	44	51	142	28
21	96	48	188	50	3,330	1,030	17	38	28	34	51	21
22	138	68	160	50	3,710	840	18	38	25	36	88	71
23	68	77	166	45	3,810	624	18	63	46	17	322	77
24	27	85	147	45	4,100	530	18	160	71	36	171	248
25	30	85	222	45	4,240	530	18	570	74	38	28	350
26	30	46	420	45	4,150	364	18	1,290	77	20	17	710
27	30	36	210	40	4,020	343	20	1,090	606	18	17	1,930
28	30	65	210	40	3,850	343	21	970	1,160	24	20	2,500
29	38	96	151	40	-----	413	21	315	994	44	18	1,310
30	42	241	115	40	-----	420	21	63	469	40	18	615
31	40	-----	115	35	-----	336	-----	63	-----	42	18	-----
TOTAL	3,773	1,688	5,345	3,036	44,473	36,715	2,423	14,163	17,925	4,512	1,294.6	13,705
MEAN	122	56.3	172	97.9	1,588	1,184	80.8	457	598	146	41.8	457
MAX	248	241	420	336	4,240	3,640	329	2,120	2,260	1,370	322	2,500
MIN	27	27	46	32	35	336	17	21	25	17	8.8	21

CAL YR 1970 TOTAL 181,373.0 MEAN 497 MAX 5,290 MIN 15
WTR YR 1971 TOTAL 149,052.6 MEAN 408 MAX 4,240 MIN 8.8

WABASH RIVER BASIN

03324000 Little River near Huntington, Ind.

LOCATION.--Lat 40°54'14", long 85°24'22", in NE¼NW¼ sec.9, T.28 N., R.10 E., Huntington County, on right bank on upstream side of highway bridge, 5 miles east of Huntington.

DRAINAGE AREA.--263 sq mi.

PERIOD OF RECORD.--October 1943 to current year. Prior to January 1944 monthly discharge only, published in WSP 1305. Published as Little River at Huntington, January 1944 to September 1948, Little River near Huntington, October 1948 to September 1956, and Little Wabash River near Huntington, October 1956 to September 1961.

GAGE.--Water-stage recorder. Datum of gage is 728.10 ft above mean sea level. Prior to Oct. 1, 1948, nonrecording gage 4 miles downstream at datum 8.79 ft lower and Oct. 1, 1948, to Sept. 5, 1950, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--28 years, 220 cfs (11.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,560 cfs Feb. 21 (gage height, 13.60, from graph based on gage readings); minimum daily, 12 cfs Aug. 31, Sept. 15.

Period of record: Maximum discharge, 5,990 cfs Jan. 4, 1950; maximum gage height, 18.43 ft Feb. 11, 1959; minimum daily discharge, 1.1 cfs Oct. 8, 1946, site and datum then in use.

REMARKS.--Records fair. Records of suspended sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WRD Ind. 1969: 1967, Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	71	459	65	20	325	95	39	176	57	19	13
2	23	58	277	60	20	250	175	43	1,420	41	16	14
3	21	131	193	60	20	210	144	58	802	30	15	21
4	19	126	234	100	200	165	114	49	369	25	16	27
5	17	91	173	230	2,140	146	96	42	219	33	15	42
6	16	75	130	150	1,200	255	89	570	162	84	14	35
7	17	63	103	120	560	558	85	634	405	46	13	77
8	17	63	91	90	330	229	80	606	203	33	13	51
9	21	52	87	80	220	163	73	416	130	50	15	31
10	144	45	79	70	170	168	65	385	102	145	20	22
11	91	70	83	60	140	182	61	268	90	128	63	18
12	55	100	112	50	130	542	61	197	96	100	39	18
13	48	80	197	47	140	1,060	64	155	83	59	22	16
14	337	70	155	43	220	818	83	122	74	39	17	15
15	552	66	140	40	480	1,220	74	98	63	30	14	12
16	193	68	130	37	142	964	70	89	57	26	16	13
17	107	66	125	35	220	466	69	79	51	23	15	14
18	79	60	169	33	1,480	327	63	57	45	21	15	13
19	63	57	478	31	1,420	328	57	60	45	23	13	13
20	51	234	361	30	1,610	413	53	55	51	25	13	41
21	55	301	198	29	2,070	310	54	51	46	23	15	90
22	63	166	160	28	1,530	265	62	45	44	20	15	44
23	54	112	168	26	1,510	219	55	44	40	18	13	29
24	48	127	207	25	654	173	51	55	37	26	17	22
25	44	91	155	24	531	144	49	558	36	34	16	19
26	39	71	140	24	1,110	130	46	337	98	26	15	57
27	36	66	110	23	1,110	121	40	173	92	22	14	225
28	34	723	90	22	520	119	44	125	62	21	14	146
29	49	915	80	22	-----	113	45	98	144	20	14	76
30	150	1,010	75	21	-----	97	41	84	90	19	13	54
31	40	-----	70	21	-----	90	-----	72	-----	18	12	-----
TOTAL	2,510	5,228	5,229	1,696	19,897	10,570	2,158	5,675	5,332	1,325	546	1,260
MEAN	81.0	174	169	54.7	711	341	71.3	183	178	42.7	17.6	42.0
MAX	552	1,010	478	230	2,140	1,220	175	634	1,420	145	63	225
MIN	16	45	70	21	20	90	40	39	36	18	12	12
CFSM	.31	.66	.64	.21	2.70	1.30	.27	.70	.58	.16	.07	.15
IN.	.36	.74	.74	.24	2.81	1.50	.31	.80	.75	.19	.08	.18
CAL YR 1970	TOTAL 70,227	MEAN 192	MAX 2,490	MIN 11	CFSM .73	IN 9.93						
WTR YR 1971	TOTAL 61,426	MEAN 168	MAX 2,140	MIN 12	CFSM .64	IN 8.69						

PEAK DISCHARGE (BASE, 2,800 cfs).--No peak above base.

03324200 Salamonie River at Portland, Ind.

LOCATION.--Lat 40°25'40", long 85°02'20", in NE¼SE¼ sec.23, T.23 N., R.13 E., Jay County, on right bank at downstream side of county road bridge, 2.4 miles downstream from Butternut Creek, 3.2 miles west of Portland, and 3.7 miles downstream from Little Salamonie River.

DRAINAGE AREA.--85.6 sq mi.

PERIOD OF RECORD.--September 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 877.59 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1960, nonrecording gage at site 1.4 miles upstream at datum 6.43 ft higher.

AVERAGE DISCHARGE.--12 years, 63.2 cfs (10.02 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,750 cfs Feb. 22 (gage height, 12.00 ft); minimum daily, 0.55 cfs Aug. 5, 9.
Period of record: Maximum discharge, 3,460 cfs Mar. 5, 1963 (gage height, 16.96 ft); minimum daily, 0.4 cfs Sept. 27, 1965.

REMARKS.--Records good except those for January and February, which are fair. Natural flow partially affected by sewage effluent.

REVISIONS.--WRD Ind, 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.2	1.8	5.1	3.5	3.0	73	14	6.4	13	13	1.5	3.1
2	1.2	1.8	4.4	3.5	2.5	40	16	8.0	53	8.6	1.0	7.0
3	1.3	3.3	3.7	4.5	2.5	30	14	11	44	6.1	.72	13
4	.85	2.6	4.4	243	200	25	13	10	24	3.9	.72	7.0
5	1.0	2.4	3.7	112	1,330	20	11	9.6	15	3.9	.55	4.4
6	1.5	2.6	2.4	50	131	133	9.6	35	12	.4.2	.63	21
7	1.8	2.2	2.9	25	50	158	10	50	91	3.9	.72	26
8	1.8	2.0	2.6	17	25	67	9.6	240	45	3.6	1.2	8.6
9	2.4	1.8	2.6	13	15	55	7.7	110	21	3.6	.55	5.3
10	3.5	4.0	3.3	11	12	53	6.7	74	13	3.1	1.2	3.4
11	1.4	3.3	4.9	9.0	10	86	6.7	54	10	7.7	4.2	1.6
12	1.3	2.4	11	8.0	30	173	6.1	39	9.3	3.9	2.3	1.2
13	4.2	3.3	32	7.5	150	400	17	36	14	3.4	2.5	1.9
14	9.2	3.1	18	7.0	60	162	70	27	13	2.9	1.9	2.6
15	3.7	4.2	11	6.5	40	309	47	13	9.0	2.5	1.3	2.6
16	2.0	2.6	8.9	6.0	30	244	30	10	6.7	2.3	1.3	2.6
17	1.7	3.5	15	5.5	599	95	21	9.6	5.6	2.6	1.8	2.6
18	1.0	3.5	22	5.0	918	70	15	8.3	4.4	1.8	1.3	1.6
19	1.3	3.3	13	5.0	761	98	12	9.0	3.9	2.3	1.2	1.5
20	2.6	6.5	9.5	4.5	1,050	131	11	8.6	3.9	2.1	10	15
21	2.6	4.6	8.0	4.5	163	69	11	6.7	7.7	1.8	21	46
22	2.0	2.4	20	4.0	1,190	55	11	5.0	5.6	1.8	11	14
23	1.8	1.8	122	4.0	745	44	9.0	2.6	5.0	1.6	6.1	7.7
24	1.7	1.8	50	4.0	92	35	8.6	35	4.2	6.4	2.5	3.6
25	1.8	1.8	23	3.5	73	28	7.4	339	4.2	1.6	2.1	3.9
26	1.3	2.0	12	3.5	290	25	6.7	108	752	1.3	1.8	11
27	1.8	2.6	8.0	3.5	386	22	8.3	44	317	1.2	2.1	18
28	2.6	4.0	6.0	3.0	121	21	15	32	56	1.8	1.6	10
29	5.3	4.4	5.0	3.0	-----	19	10	24	25	1.8	1.3	5.8
30	2.4	4.4	4.5	3.0	-----	15	8.3	18	15	2.3	1.9	3.6
31	1.7	-----	4.0	3.0	-----	14	-----	13	-----	1.3	2.5	-----
TOTAL	69.95	90.0	442.8	585.5	8,479.0	2,773	442.7	1,395.8	1,602.5	108.3	90.49	255.6
MEAN	2.26	3.00	14.3	18.9	303	89.5	14.8	45.0	53.4	3.49	2.92	8.52
MAX	9.2	6.5	122	243	1,330	400	70	339	752	13	21	46
MIN	.85	1.8	2.4	3.0	2.5	14	6.1	2.6	3.9	1.2	.55	1.2
CFSM	.03	.04	.17	.22	3.54	1.05	.17	.53	.62	.04	.03	.10
IN.	.03	.04	.19	.25	3.68	1.21	.19	.61	.70	.05	.04	.11

CAL YR 1970 TOTAL 20,799.99 MEAN 57.0 MAX 2,470 MIN .85 CFSM .67 IN 9.04
WTR YR 1971 TOTAL 16,335.64 MEAN 44.8 MAX 1,330 MIN .55 CFSM .52 IN 7.10

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0700	11.87	1,700	02-20	0200	11.03	1,500
02-17	2300	11.10	1,520	02-22	1900	12.00	1,750

WABASH RIVER BASIN

03324300 Salamonie River near Warren, Ind.

LOCATION.--Lat 40°42'45", long 85°27'13", In SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 12, T.26 N., R.9 E., Huntington County, on right downstream side of county road bridge, 1,700 ft downstream from small right and left bank tributaries, 4,000 ft upstream from abandoned concrete and stone dam, and 2.4 miles northwest of Warren.

DRAINAGE AREA.--425 sq mi.

PERIOD OF RECORD.--March 1957 to current year.

GAGE.--Water-stage recorder and concrete dam. Datum of gage is 784.65 ft (revised) above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 28, 1960, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--14 years, 353 cfs (11.28 inches per year).

EXTREMES.--Current year: Maximum discharge, about 5,800 cfs Feb. 5; maximum gage height, 14.60 ft Feb. 20 (backwater from ice); minimum daily discharge, 14 cfs Oct. 7.
Period of record: Maximum discharge, 13,200 cfs Feb. 10, 1959 (gage height, 17.05 ft); minimum daily, 5.8 cfs, Sept. 19, 1959.

REMARKS.--Records good except those for January and February, which are fair. Records of suspended sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ind, 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	63	184	70	27	609	112	60	90	76	39	21
2	18	66	155	70	26	400	138	63	229	58	39	27
3	16	80	125	65	25	300	142	63	626	45	37	69
4	15	87	121	244	300	240	129	63	336	41	30	292
5	15	69	104	592	4,700	203	112	66	193	41	27	193
6	15	60	90	354	4,000	219	104	263	221	39	28	184
7	14	50	80	224	3,000	503	97	453	1,950	37	28	284
8	15	41	76	170	1,700	495	94	1,100	830	37	24	160
9	20	39	73	130	600	300	87	1,190	399	45	24	104
10	27	43	69	100	270	256	83	848	229	97	28	69
11	30	58	73	94	230	342	80	575	165	1,460	47	52
12	33	63	90	83	200	857	76	367	146	728	33	43
13	31	58	188	76	250	2,150	87	267	117	295	30	39
14	124	47	229	70	600	1,630	90	214	112	155	31	33
15	284	43	193	65	500	1,560	138	165	104	133	33	39
16	133	43	146	63	300	1,490	151	142	87	63	30	33
17	69	45	146	58	1,000	779	125	125	69	50	28	31
18	47	45	203	55	3,500	467	104	112	60	41	28	30
19	37	45	219	52	5,400	425	90	112	60	39	28	30
20	33	108	184	48	5,000	694	80	101	55	37	70	173
21	31	209	151	45	3,930	503	80	101	94	33	31	229
22	31	160	133	43	3,350	354	76	97	76	33	30	117
23	33	117	184	40	3,650	278	73	87	73	31	41	97
24	31	87	453	38	2,860	224	69	104	63	52	41	69
25	31	73	300	36	920	184	66	373	60	55	41	60
26	31	66	155	35	1,220	165	63	875	377	55	41	294
27	30	66	130	33	2,190	151	58	367	1,060	50	33	273
28	30	87	100	32	1,290	142	58	219	474	45	31	155
29	39	152	90	30	-----	138	60	151	170	41	25	104
30	60	219	80	29	-----	125	69	121	101	41	21	80
31	63	-----	75	28	-----	112	-----	101	-----	39	21	-----
TOTAL	1,407	2,389	4,599	3,072	51,038	16,295	2,791	8,945	8,626	3,992	1,018	3,384
MEAN	45.4	79.6	148	99.1	1,423	526	93.0	289	288	129	32.8	113
MAX	284	219	453	592	5,400	2,150	151	1,190	1,950	1,460	70	294
MIN	14	39	69	28	25	112	58	60	55	31	21	21
CFSM	.11	.19	.35	.23	4.29	1.24	.22	.68	.68	.30	.08	.27
IN.	.12	.21	.40	.27	4.47	1.43	.24	.78	.76	.35	.09	.30

CAL YR 1970 TOTAL 111,145.8 MEAN 305 MAX 7,100 MIN 6.6 CFSM .72 IN 9.73
WTR YR 1971 TOTAL 107,556.0 MEAN 295 MAX 5,400 MIN 14 CFSM .69 IN 9.41

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	---	---	▲ 5,800	02-23	0200	10.74	4,010
02-19	---	---	▲ 5,600				

▲ about

03324450 Salamonie Lake at Dora, Ind.
(Formerly published as Salamonie Reservoir at Dora, Ind.)

LOCATION (revised).--Lat 40°48'25", long 85°40'38", SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T. 27 N., R. 8 E., Wabash County, in discharge tower of reservoir on Salamonie River, 1.1 miles northwest of Dora, and 3.4 miles upstream from mouth.

DRAINAGE AREA.--553 sq mi.

PERIOD OF RECORD.--April 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 63,870 acre-ft July 12 (elevation, 756.09 ft); minimum, 12,930 acre-ft Dec. 5 (elevation, 729.82).

Period of record: Maximum contents, 90,200 acre-ft Feb. 4, 1969 (elevation, 763.91 ft); minimum, 10,000 acre-ft Mar. 11, 1969 (elevation, 726.44 ft).

REMARKS.--Reservoir is formed by earth fill dam. Releases normally controlled by three gates, 4.75 ft wide and 16.0 ft high, in semi-elliptical conduit through dam. Minimum design capacity is 13,100 acre-ft (elevation, 730 ft). Seasonal pool capacity is 60,700 acre-ft (elevation, 755 ft). Capacity at uncontrolled spillway elevation (793 ft) is 263,600 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on April 17, 1967.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	751.38	50,960	-
Oct. 31.....	742.87	31,990	-18,970
Nov. 30.....	730.33	13,430	-18,560
Dec. 31.....	730.05	13,150	-280
Calendar year 1970.....	-	-	-170
Jan. 31.....	730.01	13,120	-30
Feb. 28.....	752.05	52,680	+39,560
Mar. 31.....	730.24	13,340	-39,340
Apr. 30.....	735.57	19,620	+6,280
May 31.....	748.11	43,100	+23,480
June 30.....	755.08	60,920	+17,820
July 31.....	755.02	60,750	-170
Aug. 31.....	755.13	61,070	+320
Sept. 30.....	751.44	51,110	-9,960
Water year 1971	-	-	+150

LOCATION. --Lat 40°48'42", long 85°41'02", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.12, T.27 N., R.7 E., Wabash County, on right bank 1.5 miles northwest of Dora and 3 miles upstream from mouth.

PERIOD OF RECORD.--November 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 673.96 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1951, nonrecording gage at site 1.5 miles upstream at datum 688.59 ft above mean sea level (levels by Corps of Engineers) and Oct. 1, 1951, to Oct. 8, 1961, water-stage recorder located on left bank, 2,000 ft upstream at datum 679.77 ft above mean sea level (levels by Corps of Engineers).

AVERAGE DISCHARGE. --47 years (1924-71), 491 cfs (11.97 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,910 cfs Mar. 4 (gage height, 9.46 ft); minimum daily, 14 cfs Apr. 1-5.
Period of record: Maximum discharge, 16,500 cfs May 18, 1943 (gage height, 14.75 ft, from graph based on gage readings, site and datum then in use); minimum daily, 0.70 cfs Oct. 30, 1968 result of abnormal regulation.

REMARKS.--Records good. Flow regulated by Salamonie Reservoir (see sta 03324450) about 0.5 mile upstream.

REVISONS (WATER YEARS).--WSP 1275: 1931(M), 1932, 1933(M), 1935-36(M), 1938-40(M), 1941-42, 1945, 1952. WSP 1335: 1934(M).
WSP 1555: 1952, 1955-56(M), 1957. WRD Ind. 1969: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	355	420	536	105	51	2,900	14	18	28	62	28	27
2	339	438	228	98	35	3,270	14	19	22	49	28	27
3	339	465	229	89	36	3,700	14	18	18	45	28	72
4	332	460	203	217	44	4,640	14	18	18	43	28	165
5	359	447	139	409	364	4,190	14	18	18	43	28	356
6	420	442	100	463	1,370	2,380	15	17	18	37	24	442
7	447	438	100	378	2,040	693	15	16	19	27	15	513
8	474	420	91	131	2,570	552	15	16	19	27	15	563
9	487	371	93	82	1,830	374	15	15	19	27	15	207
10	550	359	98	59	304	315	15	16	19	27	16	207
11	383	387	99	120	200	265	15	16	19	303	15	113
12	171	411	117	125	264	536	15	17	20	921	15	44
13	144	407	237	125	268	1,180	16	16	20	1,030	15	18
14	391	403	286	125	204	2,030	15	16	20	732	15	18
15	778	398	266	125	213	2,380	16	16	20	234	15	190
16	928	395	219	120	342	2,080	16	16	20	186	15	297
17	660	391	198	111	366	1,400	17	16	20	95	15	376
18	332	388	210	88	725	641	17	17	20	49	15	419
19	307	387	288	72	922	519	17	17	20	28	16	403
20	399	429	339	72	627	538	17	17	20	28	17	537
21	433	500	290	72	768	699	17	18	20	28	23	735
22	407	535	174	72	1,050	459	17	18	20	27	27	743
23	395	542	126	72	916	307	17	18	20	27	27	574
24	367	543	207	72	1,650	256	17	22	19	42	27	466
25	339	522	288	72	2,490	229	17	18	18	67	27	334
26	339	515	287	60	2,410	193	17	17	18	60	27	710
27	359	511	286	53	2,250	188	17	18	17	40	27	971
28	375	535	254	61	2,360	192	18	18	17	29	27	1,530
29	375	746	197	61	-----	156	18	18	31	28	27	941
30	383	1,010	144	61	-----	156	18	18	64	28	27	394
31	403	-----	109	61	-----	16	-----	18	-----	28	27	-----
TOTAL	12,770	14,215	6,438	3,871	26,669	37,434	479	536	641	4,397	671	12,392
MEAN	412	474	208	125	952	1,208	16.0	17.3	21.4	142	21.6	413
MAX	928	1,010	536	463	2,570	4,640	18	22	64	1,030	28	1,530
MIN	144	359	91	53	35	16	14	15	17	27	15	18
CAL YR 1970	TOTAL 153,515		MEAN 421	MAX 3,900	MIN 17							
WTR YR 1971	TOTAL 120,513		MEAN 330	MAX 4,640	MIN 14							

03325000 Wabash River at Wabash, Ind.

LOCATION.--Lat 40°47'25", long 85°49'13", in SE 1/4 sec. 14, T.27 N., R.6 E., Wabash County, on right bank on upstream side of Wabash Street Bridge in Wabash, 7 miles downstream from Salamonie River, and at mile 387.2.

DRAINAGE AREA.--1,768 sq mi.

PERIOD OF RECORD.--August 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 642.66 ft above mean sea level. Prior to Sept. 30, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years, 1,441 cfs (11.07 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,280 cfs Feb. 26 (gage height, 12.53 ft); minimum daily, 69 cfs Aug. 19.

Period of record: Maximum discharge, 49,600 cfs May 18, 1943; maximum gage height, 24.44 ft Feb. 11, 1959 (ice jam); minimum daily discharge, 19 cfs July 21, 1936.

Maximum stage known, 28.7 ft Mar. 26, 1913, from floodmark, determined by Corps of Engineers (discharge, 90,000 cfs, from rating curve extended above 49,000 cfs).

REMARKS.--Records excellent except those for January and February, which are fair. Flow partially regulated by Huntington Reservoir (see sta 03323450) and Salamonie Reservoir (see sta 03324450).

REVISIONS (WATER YEARS).--WSP 1275: 1931-37(M), 1938-39, 1940(M). WSP 1385: 1942. WSP 1505: 1955. WRD Ind. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	571	679	2,190	310	160	7,080	549	120	1,410	570	129	74
2	495	658	1,230	290	160	7,330	686	125	5,360	349	125	97
3	521	753	1,030	270	160	6,910	582	162	3,070	244	125	145
4	557	889	973	400	280	6,190	409	152	2,670	176	114	299
5	551	787	717	800	5,330	5,590	362	140	2,670	147	95	447
6	632	727	530	1,000	5,080	3,790	488	730	1,570	138	93	1,190
7	662	686	460	1,200	5,240	2,630	406	1,350	3,210	176	84	984
8	815	688	398	800	5,230	2,120	307	1,350	3,140	170	81	1,450
9	774	636	376	640	5,220	1,590	246	2,600	2,150	192	81	931
10	925	615	370	520	2,840	1,440	271	2,870	835	234	94	681
11	1,010	753	335	440	676	1,190	256	2,650	665	653	152	513
12	514	747	369	380	923	1,820	249	1,480	601	1,610	147	334
13	444	693	584	340	882	4,450	258	875	557	2,710	120	153
14	797	659	780	310	603	5,840	276	695	307	1,790	100	117
15	2,150	636	830	280	488	7,570	278	610	247	578	90	100
16	1,760	620	742	250	894	7,020	207	469	310	416	83	449
17	1,320	615	685	240	1,490	5,390	185	445	368	312	81	521
18	826	610	622	240	3,640	3,090	182	421	358	262	79	786
19	700	606	1,050	230	5,240	2,610	167	393	347	192	69	1,010
20	647	853	1,340	220	7,460	2,610	150	759	235	154	94	223
21	704	1,380	980	210	6,440	2,740	146	191	229	108	194	976
22	682	1,100	726	200	7,310	2,050	151	159	166	123	143	960
23	721	982	607	200	7,460	1,620	154	166	145	140	187	729
24	595	876	729	190	6,290	1,250	145	358	158	127	453	689
25	497	847	789	190	7,080	1,130	139	1,700	186	142	211	712
26	486	823	822	180	8,070	980	132	2,280	201	194	115	1,600
27	486	778	740	180	8,080	782	128	1,410	322	140	83	2,740
28	515	1,510	640	175	7,230	815	125	1,460	1,250	117	79	4,120
29	547	2,610	520	170	-----	768	127	993	1,320	118	74	3,520
30	729	3,450	400	170	-----	818	126	386	938	132	75	1,500
31	736	-----	350	165	-----	628	-----	280	-----	130	75	-----
TOTAL	23,368	28,266	22,914	11,190	109,956	99,841	7,927	27,379	35,015	12,674	3,731	29,264
MEAN	754	942	739	361	3,927	3,221	264	883	1,167	409	120	975
MAX	2,150	3,450	2,190	1,200	8,080	7,570	586	2,870	5,360	2,710	453	4,120
MIN	444	606	335	165	160	628	125	120	145	108	69	74
CFSM	.43	.53	.42	.20	2.22	1.92	.15	.50	.66	.23	.07	.55
IV.	.49	.59	.48	.24	2.31	2.10	.17	.58	.74	.27	.08	.62

CAL YR 1970 TOTAL 472,507 MEAN 1,295 MAX 7,830 MIN 70 CFSM .73 IN 9.94
WTR YR 1971 TOTAL 411,525 MEAN 1,127 MAX 8,080 MIN 69 CFSM .64 IN 8.66

PEAK DISCHARGE (BASE, 11,000 CFS).--No peak above base.

WABASH RIVER BASIN

03325500 Mississinewa River near Ridgeville, Ind.

LOCATION.--Lat 40°16'49", long 84°59'44", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.7 (revised), T.21 N., R.14 E., Randolph County, on right bank 10 ft downstream from highway bridge, 0.8 mile downstream from Mud Creek, and 2 miles east of Ridgeville.

DRAINAGE AREA.--133 sq mi.

PERIOD OF RECORD.--August 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 965.28 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 5, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 120 cfs (12.25 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,070 cfs Feb. 20 (gage height, 10.54 ft); minimum daily, 2.9 cfs Oct. 6.
Period of record: Maximum discharge, 13,900 cfs June 10, 1958 (gage height, 16.25 ft), from rating curve extended above 5,000 cfs on basis of contracted-opening measurement of peak flow; minimum daily, 0.1 cfs Oct. 24, 1946.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1235: 1948. WSP 1335: 1953. WRD Ind. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEPT
1	3.6	4.7	6.0	7.5	7.0	138	39	16	33	89	7.0	5.3
2	3.4	4.5	6.0	7.3	7.0	100	45	17	158	66	6.3	6.8
3	3.2	5.8	6.0	7.0	7.0	75	39	23	101	25	6.3	6.8
4	3.2	5.5	6.5	308	650	60	33	18	62	17	6.0	7.0
5	3.1	5.3	6.3	150	580	50	30	18	48	15	6.5	6.3
6	2.9	5.1	5.5	94	102	79	31	48	39	13	6.3	149
7	3.2	5.1	5.1	68	40	183	31	63	35	12	6.0	126
8	3.2	4.9	5.3	45	28	110	28	384	30	11	5.8	18
9	3.6	4.5	5.8	34	22	79	27	207	24	10	5.5	9.3
10	6.0	5.3	5.8	25	19	88	23	137	21	10	5.3	8.9
11	4.2	6.0	6.0	21	15	109	21	96	20	13	5.3	16
12	4.0	5.1	18	18	190	236	22	224	22	10	5.3	10
13	9.3	4.9	32	16	95	534	29	153	44	10	4.9	8.6
14	7.0	5.3	11	25	35	330	60	92	30	10	4.7	7.5
15	6.8	6.0	7.9	19	20	448	43	68	21	9.3	4.5	7.0
16	4.7	5.5	7.9	15	16	356	36	57	16	9.3	4.5	6.8
17	4.2	5.1	22	13	1,000	185	33	48	14	9.3	4.4	6.5
18	3.9	5.3	21	12	880	138	29	43	12	9.3	4.5	6.5
19	3.7	5.3	13	11	816	167	24	39	12	8.9	4.5	5.3
20	4.0	7.5	8.9	10	1,340	170	24	132	12	9.3	6.0	74
21	5.8	7.5	7.5	9.8	308	117	25	54	16	8.9	6.3	76
22	4.9	6.3	56	9.4	1,200	103	24	37	12	8.9	5.3	25
23	4.4	5.1	117	9.0	692	87	21	31	11	9.6	5.3	13
24	4.2	4.4	46	8.7	189	71	21	35	10	18	4.9	9.6
25	4.2	5.1	50	8.3	141	63	18	450	9.6	16	4.9	13
26	4.0	5.5	24	8.0	486	60	17	195	237	21	5.1	150
27	3.9	5.5	14	7.8	522	54	18	105	112	22	5.1	92
28	4.4	6.0	11	7.6	210	53	21	71	44	9.6	5.1	39
29	5.8	6.3	9.5	7.4	-----	46	18	55	26	9.6	4.9	25
30	6.3	6.3	8.5	7.2	-----	40	16	45	19	8.6	4.7	17
31	5.1	-----	8.0	7.0	-----	37	-----	36	-----	8.6	4.5	-----
TOTAL	140.2	164.7	557.5	996.0	9,616.0	4,366	844	2,996	1,250.6	506.2	165.7	952.2
MEAN	4.52	5.49	18.0	32.1	343	141	29.1	96.6	41.7	16.3	5.35	32.1
MAX	9.3	7.5	117	308	1,340	534	60	450	237	49	7.0	160
MIN	2.9	4.4	5.1	7.0	7.0	37	16	16	9.6	8.6	4.4	5.3
CFSM	.03	.04	.14	.24	2.58	1.06	.21	.73	.31	.12	.04	.24
IN.	.04	.05	.16	.28	2.69	1.22	.24	.84	.35	.14	.05	.27

CAL YR 1970 TOTAL 28,250.2 MEAN 77.4 MAX 2,550 MIN 2.9 CFSM .58 IN 7.90
WTR YR 1971 TOTAL 22,565.1 MEAN 61.8 MAX 1,340 MIN 2.9 CFSM .46 IN 6.31

PEAK DISCHARGE (BASE, 2,400 CFS).--No peak above base.

03326000 Mississinewa River near Eaton, Ind.

LOCATION.--Lat 40°19'08", long 85°19'10", in NW¼NE¼ sec.31, T.22 N., R.11 E., Delaware County, on right bank at downstream side of bridge, 1.5 miles upstream from Estey Creek, and 2.5 miles southeast of Eaton.

DRAINAGE AREA.--310 sq mi.

PERIOD OF RECORD.--March 1952 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 880.60 ft above mean sea level. Prior to Sept. 24, 1954, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--19 years, 266 cfs (11.65 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,320 cfs Feb. 5 (gage height, 10.72 ft); minimum daily, 7.4 cfs Oct. 6, 7.
Period of record: Maximum discharge, 19,400 cfs June 10, 1958 (gage height, 18.53 ft) from rating curve extended above 6,000 cfs on basis of contracted-opening measurement of peak flow; minimum daily, 2.0 cfs Sept. 23, 27, 1954.

REMARKS.--Records fair, except those for January and February, which are poor.

REVISIONS.--WRD Ind. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	15	25	26	20	456	75	37	82	53	21	8.3
2	9.2	17	25	24	20	334	81	36	109	169	18	8.8
3	8.6	16	24	22	19	274	83	38	281	179	16	11
4	8.0	15	23	100	300	209	75	37	190	72	14	21
5	7.7	15	22	600	2,700	156	65	38	147	45	13	17
6	7.4	15	21	400	2,420	147	59	100	130	34	12	23
7	7.4	16	19	250	528	403	60	183	160	29	12	449
8	8.0	16	18	160	300	389	59	1,020	189	26	12	241
9	8.6	15	18	110	180	230	57	1,070	125	25	11	66
10	9.5	16	18	85	130	204	51	559	94	25	11	30
11	8.9	17	19	70	110	272	46	380	80	31	14	20
12	10	16	23	60	90	466	43	325	83	35	12	28
13	17	16	28	50	450	1,380	48	487	79	33	10	34
14	19	17	60	45	300	1,210	79	277	113	24	12	27
15	35	18	47	50	170	915	129	184	117	19	11	22
16	30	17	35	40	110	1,200	100	146	76	17	10	19
17	23	17	34	35	500	659	85	214	58	17	9.4	16
18	19	18	45	33	2,540	379	73	145	47	16	9.3	14
19	15	18	55	31	3,070	351	62	107	133	16	9.1	13
20	15	23	44	29	3,610	504	56	112	122	17	9.8	19
21	14	23	37	28	2,490	351	54	166	75	15	10	137
22	14	23	38	27	2,310	258	56	92	54	14	11	209
23	13	26	120	26	3,320	216	53	69	54	13	16	88
24	14	22	206	29	1,240	179	49	100	45	18	14	45
25	14	20	216	31	445	149	47	884	40	20	12	33
26	13	19	108	28	930	131	44	973	37	32	12	43
27	12	19	70	26	1,780	121	42	410	342	27	10	425
28	12	20	45	24	1,010	110	48	234	239	35	9.4	274
29	15	23	35	23	-----	105	44	166	108	37	9.2	139
30	14	25	30	22	-----	92	41	124	71	25	8.6	82
31	13	-----	28	21	-----	78	-----	99	-----	24	8.3	-----
TOTAL	424.3	553	1,536	2,505	31,092	11,928	1,864	8,812	3,489	1,142	367.1	2,563.1
MEAN	13.7	18.4	49.5	80.8	1,110	385	62.1	284	116	36.8	11.8	85.4
MAX	35	26	216	600	3,610	1,380	129	1,070	342	179	21	440
MIN	7.4	15	18	21	19	78	41	36	37	13	8.3	8.3
CFSM	.04	.06	.16	.26	3.58	1.24	.20	.92	.37	.12	.04	.28
IV.	.05	.07	.18	.30	3.73	1.43	.22	1.06	.42	.14	.04	.31

CAL YR 1970 TOTAL 78,849.1 MEAN 216 MAX 5,180 MIN 6.5 CFSM .70 IN 9.46
WTR YR 1971 TOTAL 66,275.5 MEAN 182 MAX 3,610 MIN 7.4 CFSM .59 IN 7.95

PEAK DISCHARGE (BASE, 5,000 CFS).--No peak above base.

WABASH RIVER BASIN

03326070 Big Lick Creek near Hartford City, Ind.

LOCATION.--Lat 40°25'20", long 85°21'04", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.23 N., R.10 E., Blackford County, on right bank, 6 ft downstream from bridge on County Road 100 East and 2.0 miles southeast of Hartford City.

DRAINAGE AREA.--29.2 sq mi.

PERIOD OF RECORD.--July 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 865.00 ft above mean sea level.

EXTREMES.--July to September 1971: Maximum discharge during period, 24 cfs Sept. 7 (gage height, 5.19 ft); minimum daily, 0.38 cfs Sept. 25.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1										1.3	1.0	3.6
2										1.2	.64	4.8
3										.88	.71	11
4										1.0	.64	11
5										1.2	.64	1.8
6										1.3	.64	5.2
7										1.0	.58	14
8										1.0	.64	2.4
9										1.3	.71	1.2
10										2.2	1.0	1.3
11										6.1	2.9	1.5
12										2.0	2.9	1.2
13										.88	1.0	1.2
14										.79	.88	1.5
15										.71	2.6	1.3
16										.79	2.2	1.2
17										1.2	1.6	1.8
18										1.3	2.0	1.3
19										1.0	2.4	1.2
20										1.0	3.6	7.9
21										.88	4.5	7.8
22										.71	5.1	1.3
23										.71	6.4	.58
24										2.6	6.4	.52
25										2.0	4.2	.38
26										.88	3.4	6.6
27										.79	3.6	2.6
28										.71	3.6	1.2
29					-----					1.6	3.1	.71
30					-----					1.5	2.9	.79
31		-----			-----		-----		-----	3.1	2.6	-----
TOTAL										43.63	75.08	98.88
MEAN										1.41	2.42	3.30
MAX										6.1	6.4	14
MIN										.71	.58	.38
CFSM										.05	.08	.11
IN.										.06	.10	.13

03326500 Mississinewa River at Marion, Ind.

LOCATION.--Lat 40°34'34", long 85°39'34", in SE¼NE¼ sec.31, T.25 N., R.8 E., Grant County, on left bank 12 ft downstream from Highland Avenue Bridge in Marion, 1 mile upstream from Hummels Creek, and 4 miles downstream from Lugar Creek.

DRAINAGE AREA.--682 sq mi.

PERIOD OF RECORD.--September 1923 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 774.56 ft above mean sea level. Prior to Dec. 9, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years, 617 cfs (12.19 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,860 cfs Feb. 20 (gage height, 10.61 ft); minimum daily, 35 cfs Feb. 3.
Period of record: Maximum discharge, 25,000 cfs Mar. 21, 1927 (gage height, 17.4 ft from graph based on gage readings), from rating curve extended above 18,000 cfs; minimum daily, 3.4 cfs Oct. 25, 1968.
Flood in March 1913 reached a stage of 19.2 ft, from information by Indiana Flood Control and Water Resources Commission.

REMARKS.--Records good. Flow periodically regulated by dam above station.

REVISIONS (WATER YEARS).--WSP 1335: 1927(M). WSP 1385: 1948. WRD Ind. 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	59	100	149	95	37	1,280	242	114	153	123	78	38
2	59	106	145	90	36	886	122	120	198	106	66	55
3	53	142	126	90	35	704	250	114	350	91	61	109
4	50	162	117	400	500	536	238	114	438	152	59	122
5	53	139	106	620	2,900	426	218	120	310	136	55	86
6	50	120	97	520	2,740	450	198	210	262	103	50	116
7	48	106	89	275	1,970	809	190	346	770	84	46	155
8	55	94	86	210	795	865	183	1,210	420	78	46	311
9	91	94	84	170	400	606	169	1,880	320	89	48	274
10	84	108	89	140	300	515	158	1,420	230	76	44	166
11	73	120	89	120	220	676	149	963	202	312	53	111
12	71	123	106	100	190	1,120	142	711	186	176	46	81
13	66	111	155	90	250	2,360	155	697	176	117	46	66
14	253	106	186	80	500	2,490	176	711	169	94	63	61
15	387	106	166	80	350	2,440	206	480	162	86	66	66
16	218	100	183	75	250	2,170	242	392	169	73	44	59
17	149	97	190	70	220	1,660	214	340	152	68	41	53
18	117	94	202	60	1,500	1,030	194	438	133	61	41	48
19	97	94	194	55	3,500	865	169	345	136	61	39	44
20	97	194	186	50	8,360	1,060	155	292	368	59	62	180
21	91	250	172	50	5,080	935	149	279	279	57	41	169
22	91	186	169	48	4,940	690	145	310	183	55	41	133
23	86	139	279	50	5,710	525	139	288	152	55	50	168
24	78	106	456	55	3,540	438	133	296	126	93	41	152
25	73	100	392	50	1,320	365	126	580	114	68	44	126
26	71	97	242	48	1,710	330	123	1,400	108	68	41	136
27	71	94	190	45	3,230	306	120	1,050	106	59	41	149
28	78	100	160	43	2,430	292	123	599	149	64	41	237
29	91	97	130	41	-----	270	126	414	238	71	39	254
30	114	120	115	39	-----	254	120	335	162	71	39	172
31	114	-----	105	38	-----	377	-----	426	-----	81	39	-----
TOTAL	3,088	3,605	5,155	3,897	53,013	27,730	5,074	16,994	6,921	2,887	1,511	3,897
MEAN	99.6	120	166	126	1,893	895	169	548	231	93.1	48.7	130
MAX	387	250	456	620	8,360	2,490	250	1,880	770	312	78	311
MIN	48	94	84	38	35	254	120	114	106	55	39	38
CFSM	.15	.18	.24	.18	2.78	1.31	.25	.80	.34	.14	.07	.19
IN.	.17	.20	.28	.21	2.89	1.51	.28	.93	.38	.16	.08	.21

CAL YR 1970 TOTAL 160,862.0 MEAN 441 MAX 6,560 MIN 41 CFSM .65 IN 8.77
WTR YR 1971 TOTAL 133,772.0 MEAN 366 MAX 8,360 MIN 35 CFSM .54 IN 7.30

PEAK DISCHARGE (BASE, 5,600 CFS).--Feb. 20 (1000) 9,860 cfs (10.61 ft). Feb. 22 (2230) 6,700 cfs (8.73 ft).

WABASH RIVER BASIN

03326950 Mississinewa Lake at Peoria, Ind.
(Formerly published as Mississinewa Reservoir at Peoria, Ind.)

LOCATION (revised).--Lat 40°42'52", long 85°57'27", in NW 1/4 sec. 10, T. 26 N., R. 5 E., Miami County, in discharge tower of reservoir on Mississinewa River at Peoria, 6.8 miles southeast of Peru, and 7.3 miles above mouth.

DRAINAGE AREA.--807 sq mi.

PERIOD OF RECORD.--April 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 77,840 acre-ft July 12 (elevation, 737.83 ft); minimum, 23,170 acre-ft Mar. 18 (elevation, 711.91 ft).
Period of record: Maximum contents, 116,730 acre-ft May 1, 1970 (elevation, 747.63 ft); minimum, 22,940 acre-ft Jan. 13, 1969 (elevation, 711.73 ft).

REMARKS.--Reservoir is formed by earth fill dam. Releases normally controlled by three gates, 4.75 ft wide and 16.0 ft high, in semi-elliptical conduit through dam. Minimum design capacity is 23,300 acre-ft (elevation, 712 ft). Seasonal pool capacity is 75,200 acre-ft (elevation, 737 ft). Capacity at uncontrolled spillway elevation (779 ft) is 368,400 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on April 23, 1968.

COOPERATION.--Records furnished by Corps of Engineers.

REVISIONS.--WRD Ind. 1970: Drainage area.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	733.28	64,210	-
Oct. 31.....	724.49	43,550	-20,660
Nov. 30.....	712.29	23,660	-19,890
Dec. 31.....	712.05	23,350	-310
Calendar year 1970.....	-	-	-210
Jan. 31.....	712.13	23,460	+110
Feb. 28.....	727.50	49,940	+26,480
Mar. 31.....	712.62	24,100	-25,840
Apr. 30.....	718.93	33,390	+9,290
May 31.....	733.56	64,980	+31,590
June 30.....	737.24	75,950	+10,970
July 31.....	737.29	76,110	+160
Aug. 31.....	737.05	75,340	-770
Sept. 30.....	733.43	64,620	-10,720
Water year 1971.....	-	-	+410

WABASH RIVER BASIN

03327500 Wabash River at Peru, Ind.

LOCATION.--Lat 40°44'35", long 86°05'45", in SE¼NE¼ sec.32, T.27 N., R.4 E., Miami County, on right bank at upstream side of bridge on U.S. Highway 31, 0.5 mile southwest of Peru, 4.3 miles downstream from Mississinewa River, and at mile 370.5.

DRAINAGE AREA.--2,686 sq mi.

PERIOD OF RECORD.--August 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 617.94 ft above mean sea level (levels by Corps of Engineers). Prior to June 20, 1961, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 2,274 cfs (11.50 inches per year).

EXTREMES.--Current year: Maximum discharge, 13,700 cfs Mar. 2 (gage height, 11.63 ft); minimum daily, 155 cfs Aug. 31, Sept. 1. Period of record: Maximum discharge, 68,000 cfs May 18, 1943 (gage height, 24.46 ft, from floodmark); minimum daily, 72 cfs Oct. 5, 1946. Flood of Mar. 26, 1913, reached a stage of 28.1 ft (discharge, 115,000 cfs, from rating curve extended above 63,000 cfs).

REMARKS.--Records good. Flow regulated by Huntington Reservoir (See sta 03323450), Salamonie Reservoir (See sta 03324450), and Mississinewa Reservoir (See sta 03326950).

REVISIONS.--WRD Ind. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,200	1,250	3,140	580	340	13,400	739	224	497	886	330	155
2	1,110	1,250	1,720	550	330	13,400	1,210	228	5,240	678	334	165
3	1,020	1,440	1,450	520	330	10,200	1,170	256	3,520	535	334	256
4	586	1,540	1,350	580	750	6,970	802	260	2,540	400	330	781
5	570	1,430	1,180	1,360	5,930	5,960	684	260	2,720	352	339	636
6	1,040	1,350	886	1,640	5,090	4,590	666	390	2,110	343	330	1,230
7	1,090	1,330	725	1,500	6,050	3,390	540	1,500	3,170	366	321	1,330
8	1,170	1,270	660	1,000	5,800	3,090	450	1,350	3,260	343	285	1,950
9	1,310	1,230	606	820	5,600	2,580	395	2,340	2,570	357	276	1,530
10	1,430	1,200	594	700	4,480	2,230	356	2,700	1,190	366	244	1,180
11	1,660	1,240	594	660	1,310	2,000	352	2,610	872	1,240	316	1,030
12	1,240	1,340	630	620	1,350	2,380	343	1,920	739	1,500	395	865
13	956	1,300	739	580	1,430	5,590	343	1,100	690	3,080	325	460
14	1,230	1,270	1,050	560	1,030	8,080	352	837	550	2,370	256	565
15	2,530	1,240	1,140	530	1,070	10,100	348	732	348	1,350	228	316
16	2,650	1,220	1,110	510	1,310	9,940	321	606	357	942	244	642
17	2,140	1,190	1,080	490	1,750	7,760	272	545	410	830	240	851
18	1,540	1,180	994	470	4,470	4,370	260	530	430	588	200	1,030
19	1,310	1,180	1,190	460	6,550	3,600	256	505	430	430	179	1,490
20	1,210	1,460	1,700	450	9,240	3,500	236	450	375	357	200	1,680
21	1,310	2,030	1,440	440	8,500	3,800	236	357	370	307	268	1,680
22	1,260	1,950	1,180	420	10,400	3,230	236	289	366	268	343	1,750
23	1,230	1,720	1,000	400	10,500	2,470	236	272	330	272	260	1,470
24	1,190	1,580	1,050	390	9,460	1,990	236	436	303	264	375	1,200
25	1,010	1,490	1,290	380	11,500	1,790	232	1,890	339	264	480	1,250
26	586	1,450	1,100	380	13,400	1,590	228	2,460	361	316	294	1,950
27	994	1,400	960	370	13,400	1,230	224	1,660	390	280	224	3,290
28	1,070	1,680	840	360	13,000	1,270	228	1,530	1,050	256	179	4,410
29	1,190	2,930	740	360	-----	1,270	220	1,320	1,440	252	172	4,400
30	1,340	3,900	680	350	-----	1,270	224	711	1,350	248	158	2,540
31	1,370	-----	630	340	-----	1,070	-----	435	-----	289	155	-----
TOTAL	40,732	46,040	33,488	18,770	154,370	144,110	12,355	30,703	38,317	20,329	8,614	42,082
MEAN	1,314	1,535	1,080	605	5,513	4,649	412	990	1,277	656	278	1,403
MAX	2,650	3,900	3,140	1,640	13,400	13,400	1,210	2,700	5,240	3,080	480	4,410
MIN	556	1,180	594	340	330	1,070	220	224	303	248	155	155
CFSM	.49	.57	.40	.23	2.05	1.73	.15	.37	.48	.24	.10	.52
IN.	.56	.64	.46	.26	2.14	2.00	.17	.43	.53	.28	.12	.58

CAL YR 1970 TOTAL 683,293 MEAN 1,872 MAX 13,100 MIN 168 CFSM .70 IN 9.46
WTR YR 1971 TOTAL 589,910 MEAN 1,616 MAX 13,400 MIN 155 CFSM .60 IN 8.17

PEAK DISCHARGE (BASE, 18,000 CFS).--No peak above base.

03327520 Pipe Creek near Bunker Hill, Ind.

LOCATION.--Lat 40°40'06", long 86°05'44", in NE¼SE¼ sec.29, T.26 N., R.4 E., Miami County, on right bank 150 ft downstream from bridge on County Road 125 West, 0.5 mile northeast of Bunker Hill.

DRAINAGE AREA.--159 sq mi.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1960-67, May 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 736.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,280 cfs Feb. 19 (gage height, 8.98 ft); minimum daily, 4.0 cfs Aug. 31.
Period of record: Maximum discharge, 3,050 cfs Jan. 30, 1969 (gage height, 13.43 ft); minimum daily, 4.0 cfs Aug. 31, 1971.

REMARKS.--Records good except those for January, which are poor.

REVISIONS (WATER YEARS).--WRD Ind. 1969: 1968(m), drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	37	105	40	20	256	62	28	76	16	9.5	5.9
2	8.7	41	86	35	18	179	79	29	83	16	8.7	6.2
3	7.4	92	73	35	18	135	78	31	69	15	8.3	22
4	6.6	110	66	55	250	96	70	29	60	14	8.3	31
5	6.3	83	57	77	953	75	62	29	55	15	9.9	35
6	6.2	66	50	64	405	84	59	39	59	16	8.0	21
7	6.0	54	44	55	147	185	57	59	122	14	7.3	170
8	6.6	46	43	45	98	126	55	218	86	13	6.9	64
9	11	42	42	40	70	92	52	239	64	15	6.2	35
10	75	41	40	40	45	87	48	132	54	22	8.3	23
11	23	39	41	40	30	109	44	97	50	160	12	17
12	23	38	43	35	35	209	44	91	50	140	8.3	13
13	19	37	49	35	40	617	46	79	47	80	6.9	11
14	25	35	58	35	35	598	47	71	44	47	7.3	9.5
15	75	34	56	35	30	699	43	62	41	33	14	8.3
16	64	32	54	30	25	706	41	57	37	26	12	7.3
17	46	30	55	30	200	546	41	55	34	23	8.0	6.6
18	35	30	53	29	720	345	39	51	31	19	7.3	5.9
19	29	29	55	28	892	299	37	48	31	18	6.9	5.5
20	26	79	53	26	1,190	299	35	45	31	18	8.0	27
21	26	114	49	27	772	203	36	41	34	15	7.3	60
22	25	94	50	27	792	157	37	40	33	13	6.6	38
23	23	72	54	27	919	126	35	37	28	12	6.2	28
24	21	54	63	27	472	102	34	163	26	21	6.2	20
25	19	55	83	27	299	88	33	635	24	21	6.9	18
26	19	47	76	25	550	81	31	611	25	17	6.9	50
27	18	45	70	20	681	75	30	299	24	14	5.9	66
28	18	57	60	20	522	74	32	156	21	12	5.2	47
29	28	91	50	20	-----	70	31	112	19	15	4.9	35
30	45	140	45	20	-----	62	30	92	17	13	4.3	29
31	44	-----	40	20	-----	58	-----	79	-----	11	4.0	-----
TOTAL	748.8	1,764	1,763	1,069	10,228	6,838	1,368	3,754	1,375	884	236.5	915.2
MEAN	24.2	58.8	56.9	34.5	365	221	45.6	121	45.8	28.5	7.63	30.5
MAX	75	140	105	77	1,190	706	79	635	122	160	14	170
MIN	6.0	29	40	20	18	58	30	28	17	11	4.0	5.5
CFSM	.15	.37	.36	.22	2.30	1.39	.29	.76	.29	.18	.05	.19
IN.	.18	.41	.41	.25	2.35	1.60	.32	.88	.32	.21	.06	.21

CAL YR 1970 TOTAL 34,254.8 MEAN 93.8 MAX 1,230 MIN 5.8 CFSM .59 IN 8.01
WTR YR 1971 TOTAL 30,943.5 MEAN 84.8 MAX 1,190 MIN 4.0 CFSM .53 IN 7.24

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0115	8.46	1,130	03-15	2315	6.71	762
02-19	2200	8.98	1,280	05-25	2100	6.35	708
02-27	1015	6.29	698				

WABASH RIVER BASIN

03328000 Eel River at North Manchester, Ind.

LOCATION.--Lat 40°59'55", long 85°45'50", in NE¼NE¼ sec.5, T.29 N., R.7 E., Wabash County, on right bank 200 ft downstream from Main Street Bridge in North Manchester and 1.2 miles upstream from Pony Creek. Records include flow of Pony Creek.

DRAINAGE AREA.--417 sq mi, includes that of Pony Creek.

PERIOD OF RECORD.--October 1929 to current year. Prior to April 1930, monthly discharge only, published in WSP 1305. Gage-height records since October 1924 are available in the district office.

GAGE.--Water-stage recorder. Datum of gage is 738.00 ft above mean sea level. Prior to July 24, 1953, nonrecording gage on downstream side of Second Street Bridge, 700 ft upstream at same datum.

AVERAGE DISCHARGE.--42 years, 346 cfs (11.27 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,680 cfs Feb. 5 (gage height, 10.10 ft); minimum daily, 55 cfs Aug. 29-31, Sept. 1, 18, 19.

Period of record: Maximum discharge, 7,940 cfs Dec. 22, 1967 (gage height, 13.55 ft); maximum gage height, 14.00 ft Feb. 27, 1936; minimum daily discharge, 16 cfs Oct. 19, 1956.

REMARKS.--Records fair. Diurnal fluctuation caused by grist mill above station.

REVISIONS (WATER YEARS).--WSP 1275: 1930-37, 1939, 1940(M), 1942, 1948. WSP 1909: 1957. WRD Ind. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	120	204	983	160	86	607	203	115	279	159	61	55
2	110	184	688	156	86	515	283	124	1,540	131	60	59
3	101	461	527	148	100	423	270	148	872	110	59	72
4	93	448	533	233	200	327	225	146	550	99	58	74
5	89	325	437	314	2,100	289	197	138	349	100	72	65
6	88	250	358	312	2,300	314	187	554	280	108	68	94
7	85	208	297	250	1,500	662	178	948	1,810	103	62	326
8	83	179	264	210	910	414	171	678	685	97	59	145
9	91	168	247	184	600	289	166	466	388	103	58	97
10	396	278	225	170	470	277	164	494	266	124	64	79
11	363	381	226	155	400	259	158	388	208	183	74	71
12	217	260	254	145	330	464	150	332	187	204	67	65
13	182	248	284	135	275	1,030	152	274	179	132	62	63
14	548	208	291	125	240	904	171	225	169	107	59	60
15	811	191	263	120	220	1,300	169	192	154	94	58	58
16	477	182	240	110	217	1,300	162	176	145	89	56	57
17	308	175	234	105	385	832	157	163	141	86	56	57
18	219	168	231	100	1,700	615	151	154	138	81	56	55
19	182	163	380	97	1,780	568	146	150	138	77	56	55
20	165	534	400	94	2,590	715	142	142	137	79	57	70
21	163	897	360	92	1,940	586	140	132	137	74	59	81
22	158	596	330	90	1,620	519	141	128	129	70	56	71
23	150	404	290	89	1,630	449	140	124	118	66	66	65
24	141	286	265	88	883	370	135	131	110	71	60	60
25	134	224	250	88	632	312	131	602	106	70	57	59
26	129	198	230	88	1,260	277	127	563	106	68	56	104
27	124	192	210	88	1,330	253	122	357	107	69	56	100
28	124	839	200	88	860	242	122	249	104	68	56	82
29	255	1,240	190	87	-----	232	122	195	111	70	55	71
30	375	1,480	175	87	-----	212	120	170	193	65	55	67
31	273	-----	170	87	-----	198	-----	152	-----	63	55	-----
TOTAL	6,754	11,571	10,032	4,295	26,644	15,754	4,902	8,810	9,836	3,020	1,853	2,437
MEAN	218	386	324	139	952	508	163	284	328	97.4	59.8	81.2
MAX	811	1,480	983	314	2,590	1,300	283	948	1,810	204	74	326
MIN	83	163	170	87	86	198	120	115	104	63	55	55
CFSM	.52	.93	.78	.33	2.28	1.22	.39	.68	.79	.23	.14	.19
IN.	.60	1.03	.89	.38	2.38	1.41	.44	.79	.88	.27	.17	.22

CAL YR 1970 TOTAL 116,617 MEAN 319 MAX 2,520 MIN 64 CFSM .77 IN 10.40
WTR YR 1971 TOTAL 105,908 MEAN 290 MAX 2,590 MIN 55 CFSM .70 IN 9.45

PEAK DISCHARGE (BASE, 2,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	1415	10.10	3,680	06-07	0845	7.70	2,360
02-20	0530	8.52	2,780				

03328430 Weesau Creek near Deedsville, Ind.

LOCATION.--Lat 40°54'34", long 86°07'36", in NW 1/4 sec. 6, T.28 N., R.4 E., Miami County, on left bank 100 ft downstream from bridge on County Road 1000 North, 1.5 miles west of Deedsville.

DRAINAGE AREA.--8.87 sq mi.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 785.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 283 cfs Feb. 4 (gage height, 5.83 ft); minimum daily, 1.2 cfs Aug. 18, 19, 24, 27-31, Sept. 1, 2.

Period of record: Maximum discharge, 283 cfs Feb. 4, 1971 (gage height, 5.83 ft); minimum daily, 1.2 cfs Aug. 18, 19, 24, 27-31 Sept. 1, 2, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	7.8	17	2.5	1.6	13	7.4	2.0	19	1.5	1.3	1.2
2	4.3	10	13	2.5	1.6	11	10	2.4	53	1.4	1.3	1.2
3	3.9	30	11	2.5	1.6	9.5	8.7	2.5	24	1.4	1.3	4.7
4	3.7	16	9.6	8.5	55	9.0	7.3	2.2	12	1.4	1.3	4.5
5	3.5	11	8.6	6.5	158	9.0	6.5	2.3	8.2	1.5	1.3	2.9
6	3.2	9.1	7.5	5.0	50	11	6.2	25	14	1.4	1.3	7.7
7	3.1	7.6	6.7	4.0	29	12	5.6	15	45	1.4	1.3	13
8	3.4	6.7	6.4	3.5	15	9.9	5.2	18	18	1.4	1.3	7.2
9	5.9	5.8	6.3	3.0	7.0	8.9	5.2	11	9.7	1.9	1.3	3.6
10	16	7.1	5.9	3.0	3.5	9.1	5.1	8.1	7.0	1.5	1.3	2.0
11	10	6.8	6.4	2.5	2.5	9.8	5.1	6.7	7.4	1.8	1.6	1.6
12	7.7	6.1	6.5	2.0	6.0	21	5.0	6.0	6.3	1.5	1.3	1.5
13	8.0	5.5	6.5	2.0	4.5	34	5.4	5.2	5.0	1.4	1.3	1.4
14	20	4.9	6.1	2.0	3.5	25	5.4	4.5	4.0	1.4	1.3	1.3
15	18	4.9	5.6	2.0	3.0	53	5.0	3.9	3.4	1.4	1.3	1.3
16	11	4.6	5.5	2.0	2.5	35	4.7	3.6	2.9	1.4	1.3	1.3
17	8.7	4.3	5.3	2.0	22	18	4.4	3.0	2.5	1.4	1.3	1.3
18	7.5	4.6	5.4	2.0	44	12	4.0	2.7	2.1	1.3	1.2	1.3
19	6.5	4.3	5.7	2.0	54	17	3.6	2.4	2.5	1.4	1.2	1.3
20	6.2	22	5.2	2.0	53	18	3.3	2.2	2.0	1.3	1.4	1.7
21	6.3	16	4.9	1.8	25	12	3.1	2.1	1.9	1.3	1.3	1.6
22	5.9	10	5.0	1.9	39	11	3.0	2.0	1.9	1.3	1.3	1.5
23	5.7	7.4	5.9	1.8	37	9.2	2.8	1.9	1.8	1.3	1.3	1.4
24	5.5	5.5	5.7	1.8	19	8.0	2.7	3.6	1.7	1.4	1.2	1.4
25	5.5	4.9	5.0	1.8	18	7.2	2.4	9.6	1.7	1.3	1.3	1.4
26	5.2	4.6	4.5	1.8	27	6.8	2.2	6.6	1.8	1.3	1.3	14
27	5.2	5.2	4.0	1.8	30	6.5	2.2	4.7	1.6	1.3	1.2	14
28	6.0	30	3.5	1.6	17	6.6	2.4	3.7	1.5	1.4	1.2	7.1
29	18	38	3.0	1.6	-----	6.4	2.1	3.0	1.5	1.4	1.2	4.7
30	13	42	3.0	1.6	-----	5.9	2.0	2.6	1.4	1.3	1.2	3.3
31	5.7	-----	3.0	1.6	-----	5.7	-----	2.2	-----	1.3	1.2	-----
TOTAL	241.4	332.7	197.7	80.5	729.3	430.5	138.0	170.7	264.8	43.7	39.9	112.4
MEAN	7.79	11.1	6.38	2.60	26.0	13.9	4.60	5.51	8.83	1.41	1.29	3.75
MAX	20	38	17	8.5	158	53	10	25	53	1.9	1.6	14
MIN	3.1	4.3	3.0	1.6	1.6	5.7	2.0	1.9	1.4	1.3	1.2	1.2
CFSM	.88	1.25	.72	.29	2.63	1.57	.52	.62	1.00	.16	.15	.42
IN.	1.01	1.40	.83	.34	3.06	1.81	.58	.72	1.11	.18	.17	.47

WTR YR 1971 TOTAL 2,781.6 MEAN 7.62 MAX 158 MIN 1.2 CFSM .86 IN 11.67

PEAK DISCHARGE (BASE, 60 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-29	1845	3.30	61	02-22	2145	3.21	62
02-04	2315	5.83	283	03-15	1230	3.41	71
02-19	2045	3.56	77	06-01	2400	3.40	67

WABASH RIVER BASIN

03328500 Eel River near Logansport, Ind.

LOCATION.--Lat 40°46'55", long 86°15'50", in NE¼SE¼ sec. 14, T.27 N., R.2 E., Cass County, on right bank at downstream side of bridge on Adamsboro Road, 5.5 miles northeast of Logansport, and 6.9 miles upstream from mouth.

DRAINAGE AREA.--789 sq mi.

PERIOD OF RECORD.--July 1943 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 621.50 ft above mean sea level. Prior to Aug. 16, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 708 cfs (12.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,880 cfs Feb. 5 (gage height, 8.90 ft); maximum gage height, 10.16 ft Feb. 5 (backwater from ice); minimum daily discharge, 150 cfs Aug. 31, Sept. 1.
Period of record: Maximum discharge, 14,200 cfs Dec. 9, 1966 (gage height, 12.20 ft); minimum daily, 70 cfs Mar. 15, 1960, result of freezeup.
Flood of May 18, 1943 reached a stage of 13.2 ft, from floodmark (discharge, 17,000 cfs).

REMARKS.--Records good. Records of suspended-sediment loads and water temperatures for current year are published in Part 2 of this report.

REVISIONS.--WRD Ind, 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	347	614	2,120	300	220	1,340	518	259	386	318	170	150
2	297	542	1,420	295	220	1,110	644	259	3,350	298	167	153
3	266	918	1,090	289	220	948	710	282	3,120	252	165	479
4	245	1,150	963	371	800	782	620	315	1,500	220	164	615
5	229	888	903	716	4,000	662	536	311	1,050	212	163	457
6	217	704	754	1,000	4,400	644	494	512	810	213	164	566
7	210	602	644	903	3,400	903	464	1,530	3,900	216	172	1,050
8	212	530	584	770	2,470	1,020	446	1,550	3,370	212	165	948
9	229	476	548	660	1,710	722	418	1,180	1,370	209	161	553
10	366	476	518	570	1,170	608	397	888	955	229	162	359
11	810	608	506	500	933	602	376	873	761	292	181	273
12	692	668	536	450	740	740	362	754	698	351	189	231
13	548	596	578	400	630	1,770	366	644	602	377	176	209
14	638	524	590	365	590	1,800	391	542	520	266	220	197
15	1,640	476	560	335	540	2,300	402	470	489	221	190	187
16	1,270	446	518	315	520	2,750	386	418	397	202	170	179
17	859	424	500	290	817	1,960	371	386	354	195	162	175
18	650	408	476	275	2,850	1,390	362	357	324	190	158	172
19	536	397	488	265	4,000	1,250	337	333	319	186	156	170
20	470	596	638	255	4,750	1,430	324	311	315	184	170	192
21	435	1,630	728	250	3,590	1,320	319	289	299	185	172	210
22	418	1,300	608	245	3,090	1,130	315	274	273	180	165	222
23	397	925	548	240	3,350	1,020	319	263	256	174	162	206
24	371	692	510	235	2,040	888	306	297	243	179	160	190
25	347	596	470	230	1,380	768	293	1,050	236	183	175	187
26	324	518	446	230	1,730	680	282	1,390	235	183	164	812
27	311	482	418	225	2,380	626	274	970	230	176	159	1,420
28	311	775	380	225	1,940	596	274	686	225	181	156	774
29	446	2,000	355	220	-----	566	274	524	216	187	154	488
30	852	2,840	335	220	-----	542	270	440	210	183	152	352
31	768	-----	315	220	-----	512	-----	386	-----	175	150	-----
TOTAL	15,711	23,801	20,047	11,861	54,470	33,379	11,850	18,743	27,013	6,829	5,194	12,176
MEAN	507	793	647	383	1,945	1,077	395	605	900	220	168	406
MAX	1,640	2,840	2,120	1,000	4,750	2,750	710	1,550	3,900	377	220	1,420
MIN	210	397	315	220	220	512	270	259	210	174	150	150
CFSM	.64	1.01	.82	.49	2.47	1.37	.50	.77	1.14	.28	.21	.51
IN.	.74	1.12	.95	.56	2.57	1.57	.56	.88	1.27	.32	.24	.57

CAL YR 1970 TOTAL 249,184 MEAN 683 MAX 6,090 MIN 162 CFSM .87 IN 11.75
WTR YR 1971 TOTAL 241,074 MEAN 660 MAX 4,750 MIN 150 CFSM .84 IN 11.37

PEAK DISCHARGE (BASE, 5,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0430	8.90	6,880	06-07	2400	8.11	5,460

03329000 Wabash River at Logansport, Ind.

LOCATION.--Lat 40°44'47", Long 86°22'39", in SW¼NE¼ sec.35, T.27 N., R.1 E., Cass County, on left bank 150 ft downstream from Cicott Street Bridge in Logansport, 1,000 ft downstream from Eel River, and at mile 353.7.

DRAINAGE AREA.--3,779 sq mi.

PERIOD OF RECORD.--April to September, November and December 1903, March to November 1904, March 1905 to July 1906, May 1923 to current year. January, February, and December 1904, January and February 1905 (gage heights only). Gage-height records collected at same site December 1910 to December 1916, and since January 1926 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 573.28 ft above mean sea level (levels by Corps of Engineers). See WSP 1705 for history of changes prior to Oct. 1, 1927.

AVERAGE DISCHARGE.--48 years (1923-71), 3,201 cfs (11.50 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,800 cfs Feb. 27 (gage height, 9.38 ft); maximum gage height, 10.67 ft Feb. 5 (back-water from ice); minimum daily discharge, 299 cfs Aug. 31.

Period of record: Maximum discharge, 89,800 cfs May 18, 1943 (gage height, 21.32 ft); minimum daily, 135 cfs Sept. 26, 1941. Maximum stage known, 25.3 ft Mar. 26, 1913, from floodmarks (discharge, 140,000 cfs).

REMARKS.--Records good. Flow partially regulated by Huntington Reservoir (See sta 03323450), Salamonie Reservoir (See sta 03324450), and Mississinewa Reservoir (See sta 03326950).

REVISIONS (WATER YEARS).--WSP 783: 1934. WSP 1335: 1904, 1925(M), 1926-30, 1931(M), 1932-35, 1937-39, 1948. WSP 1385: 1903, 1905-6, 1923-25. WSP 1505: 1906(M). WRD Ind. 1969: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,470	1,830	6,180	1,050	560	15,600	1,370	570	930	1,290	438	303
2	1,340	1,760	3,680	1,000	560	15,670	1,810	568	8,180	1,050	449	309
3	1,250	2,400	2,750	950	560	13,200	1,980	595	7,810	982	449	721
4	1,210	2,890	2,420	1,080	1,500	9,010	1,580	655	4,410	717	447	1,440
5	1,200	2,500	2,230	1,300	9,000	7,560	1,350	663	3,970	652	455	1,380
6	1,200	2,140	1,770	1,700	11,000	6,290	1,270	843	3,180	613	452	1,550
7	1,260	1,970	1,440	2,000	10,000	4,920	1,190	2,670	7,010	622	457	2,800
8	1,320	1,810	1,250	1,700	9,330	4,740	1,060	3,290	7,540	626	427	3,220
9	1,480	1,730	1,220	1,500	10,800	3,860	955	3,640	4,450	606	388	2,570
10	1,720	1,670	1,170	1,300	7,900	3,130	908	3,880	2,570	655	393	1,630
11	2,270	1,750	1,160	1,100	2,730	2,940	864	3,970	1,790	1,780	454	1,400
12	2,080	1,960	1,200	1,000	2,100	2,970	835	3,290	1,560	1,990	519	1,310
13	1,540	1,860	1,290	950	2,320	7,380	839	2,070	1,350	3,320	519	1,050
14	1,630	1,770	1,520	900	1,710	10,900	875	1,560	1,200	2,860	452	724
15	3,670	1,690	1,650	840	1,620	13,800	879	1,340	949	1,990	493	630
16	4,210	1,630	1,650	800	2,110	15,400	866	1,200	831	1,180	408	757
17	3,210	1,580	1,590	760	2,360	12,200	804	1,050	831	1,030	402	988
18	2,360	1,550	1,510	740	8,170	7,440	757	993	841	870	377	1,080
19	1,870	1,540	1,530	720	12,700	5,730	728	936	857	720	333	1,210
20	1,660	1,950	2,150	700	16,900	5,660	699	883	837	577	361	1,460
21	1,640	3,750	2,330	680	14,400	5,820	676	764	809	514	444	1,820
22	1,650	3,610	1,880	650	15,700	5,240	670	679	764	453	490	1,820
23	1,560	2,810	1,630	620	16,900	3,980	663	621	712	423	492	1,900
24	1,560	2,350	1,630	610	13,100	3,250	655	670	664	489	452	1,440
25	1,380	2,050	1,900	600	13,800	2,810	634	3,620	661	465	724	1,350
26	1,300	1,960	1,650	590	16,100	2,500	608	4,680	693	480	560	3,440
27	1,280	1,890	1,550	580	17,700	2,050	595	3,230	702	495	430	4,580
28	1,340	2,180	1,400	570	16,300	1,900	591	2,480	877	477	352	4,960
29	1,520	4,900	1,300	570	-----	1,940	589	2,120	1,560	469	325	5,270
30	2,090	7,080	1,200	570	-----	1,880	581	1,500	1,570	433	313	3,400
31	2,130	-----	1,100	570	-----	1,800	-----	1,030	-----	424	299	-----
TOTAL	55,400	70,560	57,010	28,700	237,930	201,500	27,881	56,060	70,108	29,142	13,554	56,412
MEAN	1,787	2,352	1,839	926	8,498	6,500	929	1,808	2,337	940	437	1,880
MAX	4,210	7,080	6,180	2,000	17,700	15,600	1,980	4,680	8,180	3,320	724	5,270
MIN	1,200	1,540	1,100	570	560	1,800	581	568	661	423	299	303
CFSM	.47	.62	.49	.25	2.25	1.72	.25	.48	.62	.25	.12	.50
IN.	.55	.69	.56	.28	2.34	1.98	.27	.55	.69	.29	.13	.56

CAL YR 1970 TOTAL 1,046,740 MEAN 2,868 MAX 16,800 MIN 354 CFSM .76 IN 10.30
WTR YR 1971 TOTAL 904,257 MEAN 2,477 MAX 17,700 MIN 299 CFSM .66 IN 8.90

PEAK DISCHARGE (BASE, 22,000 CFS).--No peak above base.

WABASH RIVER BASIN

03329400 Rattlesnake Creek near Patton, Ind.

LOCATION.--Lat 40°42'46", long 86°41'49", in NW¼SW¼ sec.7, T.26 N., R.2 W., Carroll County, on left bank 5 ft downstream from bridge on County Road 900 West, and 2.5 miles northeast of Patton.

DRAINAGE AREA.--6.83 sq mi.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 645.97 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 76 cfs June 11 (gage height, 3.00 ft); minimum daily, 0.51 cfs Aug. 18, 19.
Period of record: Maximum discharge, 157 cfs June 23, 1969; maximum gage height, 3.70 ft July 5, 1969; minimum daily discharge, 0.51 cfs Aug. 18, 19, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.3	5.6	13	1.1	.76	8.5	4.2	1.7	7.7	1.5	.87	.69
2	3.9	15	9.3	1.2	.70	6.0	4.6	1.7	9.9	1.3	.87	.75
3	3.1	29	8.8	1.4	.70	5.1	3.9	1.6	3.2	1.3	.87	4.2
4	2.5	17	6.5	4.0	1.1	3.7	3.1	1.6	2.4	1.2	.87	6.3
5	2.5	12	6.2	3.1	.46	3.2	2.7	1.6	2.5	1.5	.87	2.7
6	2.3	9.3	4.9	2.1	24	4.6	2.7	2.1	7.5	1.2	.81	1.8
7	2.2	7.3	4.5	1.4	12	7.1	2.7	3.5	22	1.2	.75	1.6
8	2.7	6.2	4.7	1.2	5.6	4.5	2.6	8.4	5.8	14	.81	1.2
9	4.4	6.2	4.3	1.1	3.0	3.4	2.5	5.1	3.6	23	.75	1.1
10	5.3	5.7	3.8	1.0	2.4	3.4	2.3	3.8	2.9	5.2	.87	.99
11	4.2	5.5	4.3	1.5	2.0	4.2	2.3	3.3	27	28	.87	1.2
12	4.2	5.5	3.9	1.3	1.8	5.4	2.3	3.0	48	7.9	.63	.99
13	4.9	4.7	3.4	1.2	1.6	12	2.4	2.8	27	3.8	.57	.93
14	7.7	4.3	3.2	1.1	1.5	13	2.2	2.3	13	2.3	.69	.87
15	6.8	3.9	3.2	.98	1.4	28	2.3	2.3	6.5	1.9	.63	.87
16	5.2	3.7	3.5	.94	1.3	16	2.3	2.2	4.4	1.6	.57	.87
17	4.4	3.6	3.0	.90	14	11	2.2	2.1	3.4	1.5	.57	.87
18	3.8	3.6	2.9	.88	38	8.9	2.0	2.0	2.8	1.3	.51	.87
19	3.3	3.4	2.7	.88	35	12	2.0	2.0	24	1.3	.51	.93
20	3.6	8.1	2.4	.92	27	12	2.0	1.8	7.4	1.1	.63	1.8
21	3.4	7.1	2.6	2.1	14	8.7	2.1	1.7	7.1	.99	.57	1.4
22	3.3	5.9	2.7	1.2	18	7.2	1.9	1.7	3.7	.93	.63	1.2
23	3.0	4.7	3.3	.94	19	6.1	1.9	1.7	2.9	.99	.69	.93
24	3.0	4.3	3.1	.85	11	5.3	1.8	1.9	2.5	1.6	.89	.87
25	2.7	4.0	2.5	.82	8.4	5.0	1.7	1.8	2.3	1.1	4.5	2.4
26	2.6	3.8	2.1	.80	12	4.4	1.7	1.6	2.0	.99	.99	15
27	2.7	4.2	1.8	.79	15	4.2	1.8	1.6	1.8	.93	.75	5.9
28	5.5	18	1.5	.79	10	4.1	1.8	1.6	1.7	1.2	.69	3.1
29	18	24	1.3	.82	-----	3.6	1.7	1.5	1.6	1.1	.69	2.3
30	11	18	1.2	1.0	-----	3.3	1.7	1.6	1.5	.93	.75	2.1
31	7.3	-----	1.2	.88	-----	3.1	-----	1.6	-----	.93	.75	-----
TOTAL	143.8	253.6	121.8	39.19	327.26	227.0	71.4	73.2	258.1	113.79	26.42	66.73
MEAN	4.64	8.45	3.93	1.26	11.7	7.32	2.38	2.36	8.60	3.67	.85	2.22
MAX	18	29	13	4.0	46	28	4.6	8.4	48	28	4.5	15
MIN	2.2	3.4	1.2	.79	.70	3.1	1.7	1.5	1.5	.93	.51	.69
CFSM	.68	1.24	.58	.18	1.71	1.07	.35	.35	1.26	.54	.12	.33
IN.	.78	1.38	.66	.21	1.78	1.24	.39	.40	1.41	.62	.14	.36

CAL YR 1970 TOTAL 2,756.79 MEAN 7.55 MAX 104 MIN .56 CFSM 1.11 IN 15.02
WTR YR 1971 TOTAL 1,722.29 MEAN 4.72 MAX 48 MIN .51 CFSM .69 IN 9.38

PEAK DISCHARGE (BASE, 65 CFS).--June 11 (2230) 76 cfs (3.00 ft).

03329500 Wabash River at Delphi, Ind.

LOCATION.--Lat 40°35'26", long 86°41'54", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.24, T.25 N., R.3 W., Carroll County, on downstream side of second pier from left abutment of highway bridge, 1 mile west of Delphi, 1.6 miles upstream from Deer Creek, 8.6 miles upstream from Tippecanoe River, and at mile 330.8.

DRAINAGE AREA.--4,072 sq mi.

PERIOD OF RECORD.--October 1939 to September 1971 (discontinued). Prior to January 1940 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 519.90 ft above mean sea level (Corps of Engineers bench mark). Prior to July 20, 1942, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--32 years, 3,324 cfs (11.09 inches per year).

EXTREMES.--Current year: Maximum discharge, 17,600 cfs Feb. 23 (gage height, 14.27 ft); maximum gage height, 17.71 ft Feb. 5 (ice jam); minimum daily discharge, 440 cfs Sept. 2.

Period of record: Maximum discharge, 85,300 cfs May 19, 1943 (gage height, 25.60 ft); maximum gage height, 27.48 ft Feb. 11, 1959 (ice jam); minimum daily discharge, 158 cfs Sept. 19, 20, 1941.

Maximum stage known, 28.4 ft Mar. 26, 1913, from information by State Highway Commission (discharge, 145,000 cfs, from rating curve extended above 82,000 cfs).

REMARKS.--Records good. Flow partially regulated by Huntington Reservoir (see sta 03323450), Salamonie Reservoir (see sta 03324450), and Mississinewa Reservoir (see sta 03326950).

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,730	2,240	6,840	1,350	650	14,300	1,080	724	1,250	1,640	539	442
2	1,610	2,070	4,640	1,300	630	14,000	1,920	718	4,970	1,360	549	440
3	1,480	2,460	3,220	1,300	630	13,000	2,340	718	8,590	1,140	553	530
4	1,390	3,170	2,760	1,380	740	9,380	2,120	718	4,980	975	558	1,410
5	1,370	3,020	2,580	1,420	13,000	7,870	1,760	718	4,120	879	554	1,830
6	1,350	2,580	2,230	1,740	12,000	6,910	1,590	820	3,680	784	562	1,410
7	1,380	2,330	1,910	2,500	10,400	5,600	1,510	1,690	5,470	744	552	2,620
8	1,450	2,170	1,660	2,200	9,280	5,320	1,360	3,390	8,230	862	555	2,630
9	1,610	2,050	1,540	1,900	9,390	4,550	1,220	3,450	5,130	941	520	2,920
10	1,790	2,000	1,460	1,600	8,000	3,770	1,130	3,870	3,510	816	498	2,030
11	2,110	1,960	1,450	1,350	4,570	3,580	1,070	3,870	2,530	2,170	569	1,670
12	2,510	2,180	1,450	1,350	2,500	3,360	1,030	4,080	2,540	2,840	564	1,450
13	1,980	2,190	1,500	1,350	2,600	6,230	1,010	2,670	1,880	2,800	633	1,250
14	1,730	2,070	1,620	1,300	2,300	10,200	1,030	1,960	1,620	3,400	599	904
15	2,730	1,980	1,900	1,200	2,000	12,600	1,010	1,630	1,360	2,630	594	716
16	4,480	1,910	1,970	1,000	2,100	14,900	1,000	1,460	1,110	1,750	549	641
17	3,590	1,870	1,920	900	2,500	12,600	976	1,260	1,020	1,370	504	928
18	2,860	1,810	1,870	820	7,520	8,990	927	1,160	1,020	1,200	493	1,130
19	2,230	1,800	1,770	800	13,400	6,550	864	1,080	1,100	991	473	1,310
20	1,990	1,950	2,070	780	16,400	6,270	832	1,020	1,050	824	456	1,880
21	1,870	3,330	2,690	800	14,800	6,300	914	942	1,100	698	470	2,020
22	1,920	4,110	2,370	870	14,700	5,990	796	860	970	633	543	2,010
23	1,840	3,240	2,070	900	17,000	4,750	772	832	910	568	607	2,040
24	1,800	2,800	1,800	900	13,400	3,980	766	825	836	630	553	1,750
25	1,720	2,520	1,950	880	12,600	3,390	754	3,370	798	624	706	1,550
26	1,550	2,280	1,950	860	14,200	3,040	742	4,970	805	590	821	1,890
27	1,510	2,200	1,800	750	16,200	2,700	736	4,040	818	608	604	4,220
28	1,530	2,310	1,600	640	15,400	2,350	730	2,850	825	628	508	4,710
29	1,720	4,050	1,500	640	-----	2,380	730	2,540	1,350	640	464	5,250
30	2,090	6,520	1,450	650	-----	2,280	724	2,020	1,740	580	452	4,190
31	2,440	-----	1,400	660	-----	2,260	-----	1,430	-----	545	447	-----
TOTAL	61,360	77,170	66,940	36,090	238,840	209,400	34,243	61,685	75,332	36,860	17,049	57,761
MEAN	1,979	2,572	2,159	1,164	8,530	6,755	1,141	1,990	2,511	1,189	550	1,925
MAX	4,480	6,520	6,840	2,500	17,000	14,900	2,340	4,970	8,590	3,400	821	5,250
MIN	1,350	1,800	1,400	640	630	2,260	724	718	798	545	447	440
CFSM	.49	.63	.53	.29	2.09	1.66	.28	.49	.62	.29	.14	.47
IN.	.56	.70	.61	.33	2.18	1.91	.31	.56	.69	.34	.16	.53

CAL YR 1970 TOTAL 1,145,891 MEAN 3,139 MAX 18,700 MIN 531 CFSM .77 IN 10.47
WTR YR 1971 TOTAL 972,730 MEAN 2,665 MAX 17,000 MIN 440 CFSM .65 IN 8.89

PEAK DISCHARGE (BASE, 24,000 CFS).--No peak above base.

WABASH RIVER BASIN

03329700 Deer Creek near Delphi, Ind.

LOCATION.--Lat 40°35'25", long 86°37'15", in NE¼NE¼ sec.27, T.25 N., R.2 W., Carroll County, on downstream side of left wingwall of highway bridge, 2.6 miles northeast of Delphi Post Office, and 4.5 miles upstream from mouth.

DRAINAGE AREA.--274 sq mi.

PERIOD OF RECORD.--October 1943 to current year. Prior to March 1944 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 553.81 ft above mean sea level (Corps of Engineers bench mark, levels by Indiana Department of Natural Resources).

AVERAGE DISCHARGE.--28 years, 231 cfs (11.45 inches per year).

EXTREMES --Current year: Maximum discharge, 2,980 cfs Feb. 5 (gage height, 7.97 ft); minimum daily, 20 cfs Sept. 1.

Period of record: Maximum discharge, 14,400 cfs June 10, 1958 (gage height, 18.26 ft); minimum daily, 6.2 cfs Sept. 25-28, 1954.

Flood in May 1943 reached a stage of 19.8 ft, from floodmarks (discharge, 18,000 cfs, from rating curve extended above 8,000 cfs).

REMARKS.--Records good. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1275: 1944, 1947-48. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	98	319	75	40	332	119	54	155	39	30	20
2	46	102	250	73	36	270	130	54	267	35	28	27
3	40	175	202	79	35	217	135	53	189	33	27	27
4	38	262	182	125	80	168	125	52	148	31	44	220
5	36	200	154	127	2,260	150	112	52	123	37	32	100
6	33	152	135	110	1,010	154	105	200	109	34	30	79
7	32	127	131	80	393	221	101	139	183	33	29	384
8	39	109	116	76	231	197	98	254	200	39	27	301
9	46	98	110	76	150	152	93	328	131	51	26	177
10	50	94	109	78	120	150	88	232	102	46	26	112
11	53	89	109	78	110	160	82	177	307	386	36	83
12	80	88	107	76	95	198	80	168	408	242	38	66
13	76	83	105	70	84	497	85	151	220	123	33	56
14	76	80	105	65	76	533	85	132	146	80	51	49
15	123	76	107	62	70	836	79	115	113	61	50	43
16	168	71	105	58	68	847	76	105	93	71	29	39
17	123	67	105	56	465	541	76	99	79	67	33	36
18	95	65	102	55	1,300	397	74	92	70	51	26	33
19	80	65	97	54	1,630	395	70	87	92	46	23	32
20	74	127	94	53	2,080	413	66	81	82	42	23	61
21	68	325	92	53	821	332	67	73	127	39	21	63
22	64	274	94	56	1,500	281	68	67	158	36	21	87
23	60	200	98	56	1,290	233	65	63	108	35	22	75
24	57	187	104	55	524	195	62	85	81	51	21	59
25	53	187	159	54	403	168	60	2,080	70	46	45	66
26	51	127	125	52	583	153	58	915	63	47	41	104
27	48	123	110	48	768	143	58	506	57	38	31	181
28	53	127	100	44	499	138	58	338	50	40	27	157
29	76	161	90	44	-----	133	59	255	45	39	23	118
30	95	334	82	45	-----	121	57	198	41	36	21	94
31	122	-----	78	44	-----	112	-----	161	-----	33	21	-----
TOTAL	2,106	4,273	3,876	2,077	16,721	8,837	2,491	7,366	4,017	1,987	935	2,949
MEAN	67.9	142	125	67.0	597	285	83.0	238	134	64.1	30.2	98.3
MAX	168	334	319	127	2,260	847	135	2,080	408	386	51	384
MIN	32	65	78	44	35	112	57	52	41	31	21	20
CFSM	.25	.52	.46	.24	2.18	1.04	.30	.87	.49	.23	.11	.36
IN.	.29	.58	.53	.28	2.27	1.20	.34	1.00	.55	.27	.13	.40

CAL YR 1970 TOTAL 79,592 MEAN 218 MAX 3,180 MIN 25 CFSM .80 IN 10.81
WTR YR 1971 TOTAL 57,635 MEAN 158 MAX 2,260 MIN 20 CFSM .58 IN 7.82

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0315	7.97	2,980	02-22	1645	6.73	2,060
02-17	1830	7.51	2,610	05-25	0815	7.81	2,850
02-20	1600	7.43	2,550				

03330500 Tippecanoe River at Oswego, Ind.

LOCATION.--Lat 41°19'14", long 85°47'21", in NE¼NE¼ sec.14, T.33 N., R.6 E., Kosciusko County, on left bank 10 ft downstream from dam at Tippecanoe Lake Outlet in Oswego and 3 miles east of Leesburg.

DRAINAGE AREA.--113 sq mi.

PERIOD OF RECORD.--October 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 830.00 ft above mean sea level. Prior to Aug. 12, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 96.2 cfs (11.55 inches per year).

EXTREMES.--Current year: Maximum discharge, 259 cfs Feb. 28 (gage height, 7.38 ft); minimum daily, 3.0 cfs Oct. 25.

Period of record: Maximum discharge, 700 cfs Oct. 17, 1954 (gage height, 8.64 ft); minimum daily, 0.08 cfs Aug. 4, 5, 1967.

REMARKS.--Records good. Occasional regulation by flashboards at lake outlet.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	111	107	91	50	257	153	46	40	60	17	16
2	81	176	115	88	48	256	139	45	42	31	18	6.4
3	112	46	121	58	47	251	123	44	45	36	18	4.0
4	97	6.2	125	4.8	54	241	121	43	59	12	18	3.9
5	3.8	12	129	4.9	79	232	120	42	62	31	16	3.8
6	4.0	47	131	5.3	104	224	117	54	67	45	15	3.8
7	4.8	73	134	30	132	212	113	69	76	25	13	3.8
8	6.2	129	134	60	170	203	110	100	74	26	12	3.7
9	25	124	131	70	196	194	107	104	73	26	17	3.6
10	100	121	128	78	214	187	103	120	67	27	66	3.3
11	93	117	128	78	225	180	80	119	62	54	103	3.4
12	88	113	124	76	233	173	7.4	117	59	69	48	3.5
13	85	110	120	74	240	170	7.2	113	52	38	21	3.5
14	96	106	118	72	240	167	8.3	104	35	14	16	3.5
15	100	101	116	70	236	169	11	103	35	14	5.7	3.6
16	95	97	116	68	230	180	22	67	26	16	18	3.7
17	91	94	113	66	224	188	46	37	8.0	31	129	3.7
18	86	91	110	64	220	197	47	39	8.3	40	103	3.8
19	83	88	107	63	221	207	47	40	8.7	37	46	3.8
20	80	88	105	62	226	214	47	40	8.7	28	40	4.8
21	77	89	104	61	230	220	46	39	16	11	25	5.3
22	77	85	101	60	238	220	45	37	22	11	20	5.5
23	70	80	99	71	243	216	45	35	18	11	31	5.5
24	3.5	78	98	80	244	212	43	35	6.6	28	33	5.7
25	3.0	76	96	76	248	207	37	37	6.6	28	52	6.4
26	3.4	75	96	73	252	199	22	36	7.0	17	38	9.1
27	5.5	77	95	69	251	191	25	36	6.8	15	26	13
28	10	83	94	67	256	182	25	38	7.2	15	12	12
29	83	91	93	63	-----	173	31	42	14	18	7.2	12
30	129	100	92	62	-----	166	50	40	20	18	7.0	13
31	119	-----	91	57	-----	158	-----	40	-----	17	8.3	-----
TOTAL	1,024.2	2,614.2	3,471	1,922.0	5,351	6,246	1,897.9	1,861	1,031.9	849	999.2	177.0
MEAN	62.1	87.1	112	62.0	191	201	63.3	60.0	34.4	27.4	32.2	5.90
MAX	129	129	134	91	256	257	153	120	76	69	129	16
MIN	3.0	6.2	51	4.8	47	158	7.2	35	6.6	11	5.7	3.3
CFSM	.55	.77	.99	.55	1.69	1.78	.56	.53	.30	.24	.29	.05
IN.	.63	.86	1.14	.63	1.76	2.06	.62	.61	.34	.28	.33	.06

CAL YR 1970 TOTAL 31,603.7 MEAN 86.6 MAX 275 MIN 1.2 CFSM .77 IN 10.40
WTP YR 1971 TOTAL 28,344.4 MEAN 77.7 MAX 257 MIN 3.0 CFSM .69 IN 9.33

PEAK DISCHARGE (BASE, 200 CFS).--Feb. 28 (2130) 259 cfs (7.38 ft).

WABASH RIVER BASIN

03331110 Walnut Creek near Warsaw, Ind.

LOCATION.--Lat 41°12'17", long 85°52'11", in NW¼NE¼ sec.30, T.32 N., R.6 E., Kosciusko County, on left bank 10 ft upstream from bridge on County Road 200 South, 0.3 mile downstream from small right bank tributary, and 2.5 miles south of court house in Warsaw.

DRAINAGE AREA.--19.6 sq mi.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 823.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 79 cfs Mar. 16 (gage height, 2.20 ft at site of temporary staff 100 ft downstream); maximum gage height, 3.06 ft Feb. 7 (backwater from ice); minimum daily discharge, 0.90 cfs Aug. 13, 24 to Sept. 3.

Period of record: Maximum discharge, 141 cfs Apr. 21, 1970 (gage height, 3.02 ft); maximum gage height, 3.06 ft Feb. 7, 1971 (backwater from ice); minimum daily discharge, 0.90 cfs Aug. 13, 24 to Sept. 3, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.8	16	52	7.3	2.6	27	19	6.7	7.1	2.6	1.3	.90
2	5.9	16	42	7.0	2.5	22	31	8.3	12	2.6	1.3	.90
3	4.7	28	35	6.8	2.5	17	29	11	11	2.6	1.3	.90
4	3.5	30	30	15	10	13	24	11	9.2	2.5	1.3	.95
5	3.4	26	26	14	25	11	22	11	7.4	2.6	1.2	.95
6	3.3	21	22	12	60	13	21	28	6.7	2.5	1.1	2.7
7	3.2	19	20	10	60	18	20	32	11	2.4	1.1	4.1
8	3.3	16	19	9.0	50	16	19	29	12	2.5	1.1	4.4
9	5.9	14	18	7.8	40	12	18	24	10	2.7	1.1	3.8
10	26	16	17	7.3	30	11	17	19	7.2	3.0	1.1	3.3
11	28	17	18	7.1	25	10	16	14	5.6	4.1	1.0	3.1
12	21	16	19	7.0	20	13	16	16	5.0	4.1	.95	3.0
13	19	15	19	7.0	16	23	16	13	4.4	3.3	.90	2.6
14	27	13	17	6.8	13	27	20	11	3.5	2.9	1.3	2.1
15	32	12	15	6.6	12	59	20	8.8	3.4	2.5	1.1	1.7
16	26	11	16	6.2	11	75	19	7.4	3.2	2.3	1.2	1.6
17	21	11	19	5.6	11	55	16	6.0	3.1	2.2	1.2	1.4
18	15	9.8	17	5.2	12	39	14	4.7	3.0	2.0	1.1	1.3
19	12	9.8	17	4.6	37	38	13	4.3	3.2	2.0	1.1	1.3
20	11	24	16	4.1	54	37	11	4.3	3.2	1.9	1.1	2.0
21	11	33	16	3.7	44	34	11	3.8	3.2	1.7	1.1	2.0
22	10	30	15	3.5	36	30	11	3.5	3.1	1.6	.95	1.7
23	8.4	24	15	3.4	39	24	11	3.8	3.0	1.6	.95	1.6
24	7.2	18	14	3.2	28	19	10	5.7	2.9	1.7	.90	1.6
25	6.5	15	13	3.2	21	16	8.8	12	2.8	1.7	.90	1.6
26	5.9	13	12	3.3	26	14	8.3	11	2.8	1.7	.90	2.6
27	5.6	14	11	3.3	34	14	7.4	9.2	2.7	1.6	.90	2.7
28	6.5	37	9.6	3.1	27	14	7.4	8.3	2.6	1.6	.90	2.7
29	19	55	9.0	2.9	-----	13	7.4	7.9	2.5	1.6	.90	2.7
30	24	60	8.4	2.8	-----	12	7.1	6.7	2.6	1.4	.90	2.6
31	20	-----	7.8	2.8	-----	11	-----	5.7	-----	1.4	.90	-----
TOTAL	403.1	638.6	584.8	191.6	748.6	737	470.4	347.1	159.4	70.9	33.05	64.80
MEAN	13.0	21.3	18.9	6.18	26.7	23.8	15.7	11.2	5.31	2.29	1.07	2.16
MAX	32	60	52	15	60	75	31	32	12	4.1	1.3	4.4
MIN	3.2	9.8	7.8	2.8	2.5	10	7.1	3.5	2.5	1.4	.90	.90
CFSM	.66	1.09	.96	.32	1.36	1.21	.80	.57	.27	.12	.05	.11
IN.	.77	1.21	1.11	.36	1.42	1.40	.89	.66	.30	.13	.06	.12

CAL YR 1970 TOTAL 6,484.60 MEAN 17.8 MAX 138 MIN 2.5 CFSM .91 IN 12.31
 WTR YR 1971 TOTAL 4,449.35 MEAN 12.2 MAX 75 MIN .90 CFSM .62 IN 8.44

PEAK DISCHARGE (BASE, 75 CFS).--March 16 (0830) 79 cfs (2.20 ft, at site of temporary gage 100 ft downstream).

03331500 Tippecanoe River near Ora, Ind.

LOCATION.--Lat 41°09'26", long 86°33'49", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.6, T.31 N., R.1 W., Pulaski County, on right bank at downstream side of highway bridge, 1.0 mile upstream from Bartee ditch, and 1.3 miles southwest of Ora.

DRAINAGE AREA.--856 sq mi.

PERIOD OF RECORD.--September 1943 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Altitude of gage is 694 ft (by barometer). Prior to July 30, 1956, nonrecording gage on upstream side of old highway bridge, 120 ft downstream from present gage. July 30, 1956, to Dec. 20, 1964, water-stage recorder on right bank at downstream side of old highway bridge, and Dec. 21, 1964, to Aug. 19, 1965, nonrecording gage on right bank 500 ft downstream from present site. All gages at same datum.

AVERAGE DISCHARGE.--28 years, 777 cfs (12.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,410 cfs Feb. 21 (gage height, 12.07 ft); maximum gage height, 12.93 ft Feb. 7 (ice jam); minimum daily discharge, 161 cfs Aug. 19.

Period of record: Maximum discharge, 7,800 cfs Apr. 5, 1950 (gage height, 14.40 ft site then in use); minimum daily, 87 cfs Sept. 13, 1966.

REMARKS.--Records good except those for part of December, January, and part of February, which are fair. Records of suspended-sediment loads for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1335: 1944(M). WSP 1505: 1949-50(P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	659	657	1,240	530	370	1,710	917	393	319	205	192	168
2	587	636	1,170	530	370	1,570	947	401	513	201	193	167
3	435	930	1,120	540	320	1,410	1,000	443	731	201	170	164
4	444	1,170	1,070	530	570	1,270	945	451	647	212	176	167
5	437	1,100	1,000	520	1,730	1,170	496	451	554	222	171	171
6	459	1,030	946	490	2,550	1,120	354	509	605	219	167	199
7	451	917	884	470	3,200	1,190	409	629	1,270	212	166	367
8	410	918	937	460	2,570	1,140	770	686	1,060	190	164	388
9	412	760	807	450	2,000	1,370	740	690	770	207	171	339
10	473	777	782	450	1,750	1,010	704	650	650	230	176	300
11	555	905	782	450	1,550	990	674	617	579	383	214	269
12	584	807	700	450	1,350	980	453	602	554	570	100	250
13	617	789	795	450	1,250	1,170	644	593	506	401	183	232
14	657	763	777	450	1,220	1,370	650	560	464	349	104	210
15	710	735	751	450	1,150	1,430	620	533	427	318	194	194
16	776	711	729	440	1,130	1,710	587	495	303	284	178	187
17	702	690	713	420	1,050	1,590	563	460	367	248	163	183
18	695	669	696	400	1,910	1,540	551	448	331	224	166	178
19	672	652	692	390	2,440	1,500	551	400	344	212	161	173
20	633	679	685	360	2,600	1,560	545	378	318	210	179	185
21	613	922	669	360	3,350	1,540	533	360	309	205	210	217
22	589	357	659	360	3,190	1,460	521	347	300	201	196	207
23	572	916	655	370	2,460	1,400	506	330	297	196	203	210
24	551	786	633	370	2,190	1,320	490	331	279	199	192	199
25	531	765	620	380	1,890	1,250	469	341	274	196	212	190
26	514	692	600	380	1,750	1,160	449	375	271	192	222	248
27	490	674	570	370	1,850	1,100	435	396	253	190	201	301
28	454	750	540	360	1,830	1,050	432	380	232	203	192	354
29	519	1,020	530	350	-----	1,010	409	360	217	219	189	321
30	674	1,200	520	330	-----	966	401	376	207	212	179	295
31	692	-----	520	330	-----	720	-----	321	-----	201	173	-----
TOTAL	17,570	24,535	23,810	13,190	49,780	39,676	10,314	14,292	13,082	7,451	5,748	7,123
MEAN	567	788	768	425	1,777	1,290	344	461	465	240	185	237
MAX	726	1,200	1,240	540	3,390	1,710	1,000	636	1,220	500	222	391
MIN	410	652	520	330	370	920	401	321	207	190	161	164
CFSM	.66	.96	.90	.50	2.09	1.50	.75	.54	.54	.29	.22	.28
IN.	.76	1.07	1.03	.57	2.16	1.72	.94	.62	.61	.32	.25	.31

CAL YR 1970 TOTAL 273,472 MEAN 749 MAX 3,480 MIN 185 CFSM .89 IN 11.99
WTR YR 1971 TOTAL 230,461 MEAN 648 MAX 3,390 MIN 151 CFSM .76 IN 10.28

PEAK DISCHARGE (BASE, 2,300 CFS).--Feb. 7 (time and discharge unknown) Feb. 21 (2000) 3,410 cfs (12.07 ft).

WABASH RIVER BASIN

03332300 Little Indian Creek near Royal Center, Ind.

LOCATION.--Lat 40°52'53", long 86°35'26", in NE 1/4 sec. 13, T. 28 N., R. 2 W., White County, on right bank at downstream side of county road bridge, 2.9 miles upstream from mouth, 3.2 miles downstream from Fredericks ditch, and 4.8 miles northwest of Royal Center Post Office.

DRAINAGE AREA.--35.0 sq mi.

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 692.73 ft above mean sea level.

AVERAGE DISCHARGE.--12 years, 26.7 cfs (10.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 390 cfs June 2 (gage height, 6.75 ft); minimum daily, 2.9 cfs Aug. 18, 19, 31.
Period of record: Maximum discharge, about 500 cfs Mar. 5, 1963 (gage height, unknown); minimum daily, 0.5 cfs Dec. 17-22, 1963.
Maximum stage known, 11.2 ft in spring of 1957, from information by local residents.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	22	62	9.6	4.8	54	20	9.3	74	8.6	4.8	3.1
2	23	30	44	9.4	4.5	45	26	9.7	365	8.2	4.8	3.3
3	20	93	37	10	4.5	31	23	9.3	351	7.6	4.8	6.1
4	18	61	30	14	10	24	19	9.3	247	7.3	5.0	9.7
5	17	43	25	16	300	20	18	9.7	143	9.3	4.8	8.2
6	16	34	21	14	200	23	17	14	127	7.3	4.4	26
7	15	28	18	10	80	31	16	13	328	6.7	4.4	36
8	16	24	18	9.6	35	22	15	24	261	9.7	4.2	16
9	21	24	18	9.6	20	18	14	19	157	19	4.4	9.7
10	29	27	16	9.8	15	19	12	15	101	21	4.4	7.6
11	24	26	18	10	13	24	12	13	72	49	5.5	7.3
12	22	24	18	9.8	12	30	12	12	66	24	4.2	6.4
13	22	22	17	9.0	11	70	14	10	51	15	3.7	5.5
14	24	20	16	8.3	9.6	58	13	9.3	38	11	3.7	5.0
15	25	18	14	7.8	9.0	92	12	8.2	29	9.3	3.7	4.6
16	22	17	14	7.4	8.6	74	12	7.9	24	11	3.3	4.4
17	20	16	14	7.1	102	49	12	7.6	20	8.6	3.1	4.4
18	19	16	14	6.9	244	40	11	7.0	18	7.6	2.9	4.2
19	17	15	14	6.7	219	52	11	6.7	17	7.3	2.9	4.2
20	18	33	12	6.6	170	60	11	6.1	16	6.7	5.8	8.2
21	18	40	12	10	86	45	12	6.1	16	6.1	3.9	9.3
22	17	30	12	8.5	115	38	11	5.8	14	5.8	3.3	7.0
23	16	22	13	7.6	124	30	10	5.8	12	5.5	3.3	5.8
24	16	22	14	7.2	65	24	10	6.4	11	7.9	3.1	5.0
25	15	16	14	6.8	53	22	9.7	7.3	11	6.1	16	5.8
26	14	16	14	6.6	73	22	9.3	6.1	10	5.8	7.3	30
27	14	16	14	6.2	95	21	10	5.8	10	5.2	4.4	29
28	16	60	13	5.6	64	21	10	5.5	9.7	6.4	3.7	17
29	42	83	11	5.6	-----	19	9.7	5.5	9.0	6.7	3.3	13
30	36	96	11	6.0	-----	17	9.3	5.5	9.0	5.2	3.1	12
31	26	-----	10	5.6	-----	17	-----	5.8	-----	5.0	2.9	-----
TOTAL	642	994	578	267.3	2,147.0	1,112	401.0	285.7	2,616.7	319.9	139.1	313.8
MEAN	20.7	33.1	18.6	8.62	76.7	35.9	13.4	9.22	87.2	10.3	4.49	10.5
MAX	42	96	62	16	300	92	26	24	365	49	16	36
MIN	14	15	10	5.6	4.5	17	9.3	5.5	9.0	5.0	2.9	3.1
CFSM	.59	.95	.53	.25	2.19	1.03	.38	.26	2.49	.29	.13	.30
IN.	.68	1.06	.61	.28	2.28	1.18	.43	.30	2.78	.34	.15	.33

CAL YR 1970 TOTAL 12,063.8 MEAN 33.1 MAX 415 MIN 3.4 CFSM .95 IN 12.82
WTR YR 1971 TOTAL 9,816.5 MEAN 26.9 MAX 365 MIN 2.9 CFSM .77 IN 10.43

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	--	--	--	06-02	1930	6.75	390
02-18	2330	5.57	296	06-07	1145	6.10	339

03332400 Big Monon Creek near Francesville, Ind.

LOCATION.--Lat 40°59'03", long 86°51'43", in NW¼NE¼ sec.10, T.29 N., R.4 W., Pulaski County, on right bank at downstream side of county road bridge, 1.1 miles east of Francesville, 1.6 miles downstream from right-bank tributary, and 10.2 miles upstream from mouth.

DRAINAGE AREA.--152 sq mi.

PERIOD OF RECORD.--August 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 653.17 ft above mean sea level.

AVERAGE DISCHARGE.--12 years, 134 cfs (11.97 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,000 cfs June 7 (gage height, 10.15 ft); maximum gage height, 13.10 ft Feb. 5 (ice jam); minimum daily discharge, 16 cfs July 4.

Period of record: Maximum discharge, 2,750 cfs Dec. 25, 1965 (gage height, 15.14 ft, from floodmarks); maximum gage height, 15.90 ft Feb. 2, 1968; minimum daily discharge, 8.5 cfs Nov. 20, 1964.

Maximum stage known, about 18.60 ft in Spring of 1957, from information by local residents.

REMARKS.--Records good except those for part of December, January, and part of February, which are fair.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	67	82	133	67	24	156	157	54	35	26	39	51
2	90	87	115	68	25	140	321	54	56	21	36	46
3	77	168	108	70	25	177	168	54	42	17	34	44
4	67	166	101	76	50	106	136	52	34	16	33	54
5	65	143	90	79	730	102	120	54	29	40	32	67
6	62	124	80	74	400	117	112	83	83	42	28	150
7	54	112	81	57	200	135	102	79	990	29	25	204
8	64	93	81	51	140	146	102	79	700	50	24	141
9	72	101	79	50	110	110	96	70	305	111	25	105
10	92	100	76	51	92	114	86	66	180	76	27	85
11	72	102	85	52	71	113	83	72	158	183	109	78
12	70	92	91	51	63	136	81	83	262	157	75	71
13	75	93	90	48	59	246	81	73	214	96	51	67
14	90	37	85	45	52	263	80	65	134	80	41	62
15	76	36	78	42	40	422	76	58	106	69	37	58
16	44	80	82	39	47	383	78	55	84	61	34	58
17	80	76	70	36	142	266	77	50	72	55	31	59
18	75	77	78	34	273	241	72	47	57	49	29	58
19	70	75	83	32	557	287	68	44	86	40	67	56
20	70	92	77	30	471	313	67	43	79	49	36	74
21	72	95	75	29	250	262	69	40	69	43	36	90
22	70	60	74	29	242	227	64	40	56	36	30	81
23	63	86	76	22	354	175	63	37	52	33	34	72
24	65	91	77	30	276	167	62	40	49	40	29	67
25	63	97	77	30	221	152	54	42	49	39	238	71
26	61	88	76	30	234	147	57	37	44	43	249	319
27	59	87	75	25	316	146	60	32	42	39	129	536
28	64	94	73	28	146	141	63	28	30	46	95	316
29	102	121	72	27	-----	128	59	24	33	64	75	221
30	102	143	70	27	-----	116	56	23	28	52	65	181
31	82	-----	67	27	-----	113	-----	21	-----	42	56	-----
TOTAL	2,204	3,059	2,585	1,366	5,693	5,711	2,673	1,601	4,166	1,753	1,949	3,542
MEAN	74.5	102	83.4	44.1	203	164	82.3	51.6	139	56.5	59.6	118
MAX	102	168	133	70	700	422	321	83	990	183	249	536
MIN	59	75	67	27	25	102	56	21	28	16	24	44
CFSM	.47	.67	.55	.29	1.34	1.21	.59	.34	.01	.17	.39	.78
IN.	.57	.75	.63	.33	1.29	1.40	.66	.39	1.02	.43	.45	.87

CAL YR 1970 TOTAL 48,620 MEAN 133 MAX 1,550 MIN 16 CFSM .48 IN 11.90
WTR YR 1971 TOTAL 36,313 MEAN 99.5 MAX 950 MIN 16 CFSM .65 IN 8.20

WABASH RIVER BASIN

03332500 Tippecanoe River near Monticello, Ind.

LOCATION.--Lat 40°46'48", long 86°45'36", in NW¼NE¼ sec.21, T.27 N., R.3 W., White County, at Norway plant of Northern Indiana Public Service Co., 2 miles north of Monticello.

DRAINAGE AREA.--1,732 sq mi.

PERIOD OF RECORD.--October 1931 to current year.

AVERAGE DISCHARGE.--40 years, 1,458 cfs (11.43 inches per year).

EXTREMES.--Current year: Maximum daily discharge, 7,590 cfs Feb. 5; minimum daily, 238 cfs Aug. 16.
Period of record: Maximum daily discharge, 16,800 cfs June 13, 1958; minimum daily, 103 cfs July 27, 1934.

REMARKS.--Discharge computed on basis of records of operation of powerplant and flow over dam.

COOPERATION.--Records of daily discharges furnished by Northern Indiana Public Service Co.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,270	1,430	2,530	915	520	2,680	1,890	695	751	496	390	433
2	1,260	1,220	2,260	1,020	520	2,540	2,000	668	2,150	358	368	282
3	1,150	2,080	2,040	915	520	2,310	1,810	767	1,790	520	460	325
4	915	2,380	1,870	1,130	1,320	1,810	1,750	767	1,810	260	390	272
5	950	2,310	1,700	915	7,590	1,810	1,490	767	1,280	652	392	526
6	868	1,860	1,430	602	4,600	2,040	1,540	1,100	1,230	491	303	783
7	815	1,810	1,580	652	3,200	1,830	1,430	1,060	5,120	475	260	1,080
8	987	1,590	1,430	619	2,780	1,810	1,430	1,510	4,150	458	260	816
9	1,160	1,390	1,430	701	3,340	1,640	1,240	1,430	2,430	1,140	363	849
10	1,130	1,480	1,240	915	3,040	1,760	1,150	1,030	1,800	1,360	260	619
11	1,190	1,620	1,430	767	2,750	1,590	1,260	1,180	2,070	1,550	520	668
12	1,280	1,430	1,190	701	2,410	1,760	1,160	1,330	2,330	1,430	520	520
13	1,150	1,430	1,430	635	2,020	2,450	1,280	1,220	3,020	1,400	412	520
14	1,390	1,430	1,300	767	1,670	2,460	915	1,110	1,970	915	368	390
15	1,470	1,370	1,370	734	1,650	4,080	1,220	770	1,260	762	520	477
16	1,140	1,300	1,220	569	1,320	4,030	1,110	915	1,130	664	238	412
17	1,260	1,270	1,220	718	1,480	3,110	1,060	915	915	586	376	433
18	1,280	1,110	1,150	635	2,990	2,970	915	849	915	652	248	412
19	1,280	1,190	1,390	635	4,830	3,120	915	833	915	871	248	347
20	1,020	1,270	1,000	551	4,690	3,300	882	668	915	347	292	520
21	1,230	1,430	1,140	531	3,250	2,730	915	686	915	467	248	390
22	1,150	1,720	1,270	668	3,710	2,820	915	615	691	374	315	520
23	1,040	1,310	1,050	520	4,810	2,320	915	615	633	484	382	455
24	1,060	1,250	1,000	701	3,780	2,180	915	728	750	520	270	433
25	915	1,090	915	701	3,450	2,000	767	718	696	481	681	520
26	915	1,430	685	569	3,640	2,100	849	556	520	347	915	775
27	915	1,170	932	520	3,800	1,810	702	690	477	413	419	1,060
28	1,110	1,430	636	651	3,360	1,810	915	615	520	477	458	1,390
29	1,260	1,910	899	520	-----	1,810	652	808	509	520	534	915
30	1,430	2,340	915	520	-----	1,540	800	690	488	433	305	783
31	1,430	-----	915	520	-----	1,480	-----	615	-----	477	392	-----
TOTAL	35,420	46,050	40,567	21,517	83,030	71,700	34,792	26,920	44,150	20,390	12,107	17,925
MEAN	1,143	1,535	1,309	694	2,965	2,313	1,160	868	1,472	658	391	598
MAX	1,470	2,380	2,530	1,130	7,590	4,080	2,000	1,510	5,120	1,550	915	1,390
MIN	815	1,090	636	520	520	1,490	652	556	477	260	238	272
CF SM	.66	.89	.76	.40	1.71	1.34	.67	.50	.85	.38	.23	.35
IN.	.76	.99	.87	.46	1.78	1.54	.75	.58	.95	.44	.26	.38

CAL YR 1970 TOTAL 599,939 MEAN 1,616 MAX 12,100 MIN 260 CFSM .93 IN 12.67
WTR YR 1971 TOTAL 454,568 MEAN 1,245 MAX 7,590 MIN 238 CFSM .72 IN 9.76

03333000 Tippecanoe River near Delphi, Ind.

LOCATION.--Lat 40°37'02", long 86°45'39", in NW¼NE¼ sec.16, T.25 N., R.3 W., Carroll County, on right bank 2 miles northeast of Springboro, 2 miles downstream from Big Creek, and 5 miles northwest of Delphi.

DRAINAGE AREA.--1,865 sq mi.

PERIOD OF RECORD.--March to December 1903, March to December 1904, March 1905 to July 1906, November and December 1908, July 1939 to current year. Published as "at Springboro" 1903.

GAGE.--Water-stage recorder. Datum of gage is 552.01 ft above mean sea level (levels by Corps of Engineers). Mar. 14, 1903, to July 20, 1906, and Nov. 2 to Dec. 31, 1908, nonrecording gage at site 5.5 miles downstream at different datum.

AVERAGE DISCHARGE.--32 years (1939 to current year), 1,582 cfs (11.52 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,900 cfs Feb. 5 (gage height, 9.22 ft); minimum daily, 225 cfs June 29, Aug. 8. Period of record: Maximum discharge, 22,600 cfs Feb. 10, 1959 (gage height, 15.10 ft); minimum daily, 1 cfs Nov. 2, 3, 1954, caused by repair work at Oakdale Dam, 6.5 miles upstream.

REMARKS.--Records good. Flow regulated by powerplant above station.

REVISIONS (WATER YEARS).--WSP 973: 1942. WSP 1335: 1905-6. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,110	1,350	2,580	1,110	645	2,970	1,970	1,020	630	419	413	320
2	1,330	1,310	2,440	1,010	629	2,670	2,060	542	2,470	439	413	245
3	1,160	2,380	1,950	1,150	696	2,520	2,170	1,110	1,920	390	419	707
4	864	2,370	2,100	1,230	1,160	1,930	1,870	762	2,000	390	419	459
5	898	2,270	1,760	824	8,040	1,870	1,680	954	1,380	669	340	507
6	973	1,950	1,400	860	5,010	2,320	1,840	979	1,330	578	413	801
7	967	1,790	1,780	947	3,610	1,990	1,350	1,190	4,840	473	310	1,150
8	980	1,060	1,420	458	2,730	1,840	1,640	1,750	4,180	707	225	1,070
9	1,060	1,410	1,550	787	3,410	1,840	1,350	1,420	2,500	1,180	350	925
10	1,420	1,520	1,320	1,130	3,030	1,850	1,350	1,130	1,990	1,260	325	645
11	1,170	1,420	1,580	739	3,020	1,870	1,350	1,350	2,360	1,690	630	962
12	1,320	1,610	1,410	712	2,560	1,870	1,320	1,260	2,760	1,860	325	432
13	1,260	1,280	1,420	989	2,080	2,660	1,380	1,420	3,060	1,330	401	623
14	1,410	1,270	1,440	702	2,470	2,590	1,060	1,060	2,330	945	535	432
15	1,390	1,260	1,600	781	2,110	4,100	1,370	1,060	1,260	707	401	439
16	1,350	1,260	1,360	606	1,560	4,220	1,150	817	1,270	692	395	439
17	1,340	1,250	1,440	856	1,430	3,370	1,310	1,060	954	578	395	610
18	1,340	1,030	1,230	546	3,150	3,100	1,140	841	1,150	653	274	388
19	1,250	1,240	1,570	714	5,260	3,130	901	1,020	1,160	549	288	364
20	1,060	1,400	1,140	661	4,930	3,600	1,130	600	1,150	378	401	681
21	1,250	1,210	1,200	688	3,390	2,970	1,140	777	1,160	378	401	443
22	1,270	1,800	1,360	715	3,760	2,940	1,140	638	857	413	395	598
23	987	1,200	1,340	665	4,510	2,410	863	593	738	401	407	469
24	996	1,100	1,100	968	3,950	2,270	1,130	889	881	653	366	439
25	988	1,130	1,090	589	3,600	2,190	708	841	809	676	945	829
26	988	1,540	797	814	3,670	2,140	1,130	578	446	320	1,060	742
27	983	1,060	950	494	3,960	2,070	706	801	692	315	521	1,470
28	1,010	1,720	750	765	3,450	1,870	1,130	578	630	493	432	1,190
29	1,320	1,990	995	525	-----	2,060	1,010	921	225	571	493	1,120
30	1,510	2,410	919	711	-----	1,720	668	723	692	407	413	809
31	1,410	-----	1,100	470	-----	1,550	-----	793	-----	413	608	-----
TOTAL	36,364	46,190	44,091	24,116	87,820	76,500	39,016	29,477	47,824	20,927	13,713	20,212
MEAN	1,173	1,540	1,422	778	3,136	2,468	1,301	951	1,594	675	442	674
MAX	1,510	2,410	2,580	1,230	8,040	4,220	2,170	1,750	4,840	1,860	1,060	1,470
MIN	864	1,030	750	458	629	1,550	668	542	225	315	225	245
CFSM	.63	.83	.76	.42	1.68	1.32	.70	.51	.85	.36	.24	.36
IN.	.73	.92	.88	.48	1.75	1.53	.78	.59	.95	.42	.27	.40

CAL YR 1970 TOTAL 633,823 MEAN 1,737 MAX 14,000 MIN 220 CFSM .93 IN 12.64
WTR YR 1971 TOTAL 486,250 MEAN 1,332 MAX 8,040 MIN 225 CFSM .71 IN 9.70

WABASH RIVER BASIN

03333450 Wildcat Creek near Jerome, Ind.

LOCATION.--Lat 40°26'29", long 85°55'08", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 14, T.23 N., R.5 E., Howard County, on right bank at downstream side of bridge on County Road 1100 East, 0.5 mile downstream from Mud Creek, and 1.5 miles southeast of Jerome.

DRAINAGE AREA.--146 sq mi.

PERIOD OF RECORD.--July 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 820.04 ft above mean sea level.

AVERAGE DISCHARGE.--10 years, 106 cfs (9.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,710 cfs Feb. 20 (gage height, 8.22 ft); minimum daily, 4.2 cfs Aug. 30 to Sept. 2. Period of record: Maximum discharge, 4,160 cfs Apr. 20, 1964; maximum gage height, 11.98 ft Jan. 26, 1962; minimum daily discharge, 1.1 cfs Oct. 10-12, 1966. Flood in March 1913 reached a stage of about 18 ft, from information by local residents.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	90	93	46	15	373	70	21	62	17	11	4.2
2	36	80	85	43	15	249	80	21	63	16	10	4.2
3	31	249	73	43	14	189	70	21	51	15	10	6.4
4	27	253	75	161	50	126	60	20	43	15	10	15
5	23	180	60	170	600	111	53	21	40	15	9.6	16
6	21	133	53	86	380	119	51	30	40	16	9.2	15
7	20	107	48	56	150	229	50	35	38	15	9.2	47
8	20	83	47	48	80	161	47	197	37	15	8.8	35
9	23	74	49	44	50	116	45	181	32	17	9.6	18
10	159	76	44	40	39	118	39	115	29	23	12	12
11	173	73	44	38	33	156	34	85	29	83	11	10
12	107	69	51	36	42	225	35	75	41	159	9.2	9.2
13	85	65	69	35	41	512	40	63	44	64	7.6	8.8
14	190	59	68	34	35	479	40	55	42	36	6.4	8.4
15	367	55	62	32	28	574	34	47	33	25	6.0	9.0
16	233	51	62	29	27	589	34	44	28	20	5.4	7.6
17	149	50	67	28	133	392	34	41	25	18	5.4	7.6
18	111	49	63	28	598	302	32	37	23	16	5.1	7.2
19	86	48	63	28	1,260	295	29	35	24	16	4.8	6.8
20	74	126	60	26	1,490	296	27	32	24	15	5.1	14
21	73	225	59	24	589	241	31	28	24	13	4.8	28
22	69	165	61	23	1,030	702	30	27	24	12	4.5	23
23	64	116	105	22	928	165	27	26	24	12	5.1	17
24	59	88	162	21	405	130	27	38	22	17	4.8	13
25	56	74	133	21	331	111	25	284	21	17	5.1	12
26	52	70	108	21	473	101	23	259	21	15	5.1	17
27	47	64	53	20	695	91	23	157	20	13	4.8	26
28	45	57	69	18	490	90	25	111	19	12	4.5	23
29	60	54	58	17	-----	82	24	86	18	12	4.5	19
30	143	79	50	18	-----	71	22	75	17	12	4.2	16
31	121	-----	47	15	-----	65	-----	67	-----	12	4.2	-----
TOTAL	2,777	2,962	2,181	1,272	10,010	6,910	1,161	2,334	958	763	217.0	454.4
MEAN	89.6	98.7	70.4	41.0	358	223	38.7	75.3	31.9	24.6	7.00	15.1
MAX	367	253	162	170	1,480	589	80	284	63	159	12	47
MIN	20	48	44	16	14	65	22	20	17	12	4.2	4.2
CFSM	.61	.68	.48	.28	2.45	1.53	.27	.52	.27	.17	.05	.17
IN.	.71	.75	.56	.32	2.55	1.76	.30	.59	.24	.19	.06	.12

CAL YR 1970 TOTAL 37,476.0 MEAN 103 MAX 1,140 MIN 11 CFSM .71 IN 9.55
 WTR YR 1971 TOTAL 31,999.4 MEAN 87.7 MAX 1,490 MIN 4.2 CFSM .60 IN 8.15

PEAK DISCHARGE (BASE, 1,200 CFS).--Feb. 20 (0430) 1,710 cfs (8.22 ft). Feb. 22 (2030) 1,550 cfs (7.88 ft).

03333600 Kokomo Creek near Kokomo, Ind.

LOCATION.--Lat 40°26'28", long 86°05'20", In NW 1/4 sec. 16, T.23 N., R.4 E., Howard County, on left bank at upstream side of bridge on County Road 200 East, 2.6 miles southeast of intersection of U.S. Highways 31 and 35 in Kokomo, and 4.2 miles upstream from mouth.

DRAINAGE AREA.--24.7 sq mi.

PERIOD OF RECORD.--July 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 807.68 ft above mean sea level (unadjusted).

AVERAGE DISCHARGE.--12 years, 17.8 cfs (9.79 inches per year).

EXTREMES.--Current year: Maximum discharge, 346 cfs Feb. 5 (gage height, 5.76 ft); minimum daily, 0.68 cfs Aug. 7, 8, 13.
Period of record: Maximum discharge, 1,040 cfs Apr. 20, 1964 (gage height, 9.88 ft); minimum daily, 0.12 cfs Oct. 3, 1967.

REMARKS.--Records good.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.3	17	19	8.0	3.2	48	11	4.2	12	.86	.86	1.2
2	8.0	28	16	7.7	2.8	37	14	4.4	11	1.1	.74	1.3
3	6.8	79	15	7.7	3.0	25	13	4.2	9.6	.92	.74	2.2
4	6.3	51	14	27	111	16	11	4.2	8.3	.92	.80	4.4
5	5.6	35	11	17	182	14	9.9	4.4	7.7	1.5	.80	1.8
6	5.2	26	9.9	13	26	23	9.6	8.6	7.4	1.3	.74	8.0
7	5.0	20	9.6	9.9	16	39	9.3	11	6.3	1.1	.68	18
8	4.8	16	9.6	9.3	10	20	8.6	56	4.6	.92	.68	7.4
9	13	15	9.6	9.3	7.7	15	8.0	33	3.8	6.0	.86	4.0
10	66	14	8.6	8.6	5.8	19	7.1	19	3.0	12	.92	2.5
11	33	12	9.3	8.0	5.8	27	6.8	15	3.2	65	1.1	2.2
12	20	12	9.9	7.1	6.6	56	7.1	14	4.2	32	.74	2.0
13	17	11	11	6.8	5.4	110	7.7	11	3.4	16	.68	1.9
14	75	10	11	7.4	5.0	91	7.1	9.6	3.0	9.3	.74	1.8
15	75	10	10	5.8	5.0	144	6.8	8.3	2.5	6.6	.92	1.8
16	42	9.6	11	5.6	4.8	102	6.8	8.0	2.0	5.0	.92	1.8
17	26	9.3	11	6.0	61	69	6.6	7.1	1.6	4.4	.92	2.0
18	19	9.3	10	5.6	153	55	6.3	6.8	1.4	3.7	.92	2.0
19	15	9.0	11	5.2	234	58	5.6	6.3	3.0	4.0	.80	2.1
20	14	51	9.3	4.8	187	52	5.4	5.8	2.2	3.5	.99	6.8
21	14	50	9.6	5.2	71	40	5.6	5.4	2.2	2.9	1.1	5.0
22	12	35	11	5.4	236	32	5.4	5.4	2.5	2.1	.99	3.0
23	11	21	17	5.4	105	25	5.0	5.4	2.8	1.3	1.1	2.4
24	11	17	24	5.0	58	19	5.0	45	2.5	4.8	1.1	2.1
25	10	15	19	5.0	54	16	4.6	158	2.8	2.5	1.5	3.8
26	9.6	14	15	4.8	91	15	4.4	83	3.0	1.5	1.4	4.6
27	9.0	12	13	4.2	115	13	4.6	48	2.5	.99	1.3	3.8
28	9.3	11	11	3.8	67	13	5.0	30	2.5	1.1	1.4	2.7
29	28	13	9.6	4.0	-----	12	4.6	20	1.8	1.1	1.3	1.9
30	35	19	8.6	4.4	-----	10	4.2	16	1.2	.99	1.3	1.5
31	23	-----	9.0	3.8	-----	9.9	-----	13	-----	.92	1.3	-----
TOTAL	637.9	651.2	372.6	230.8	1,832.1	1,224.9	216.1	670.1	124.0	196.22	30.34	106.0
MEAN	20.6	21.7	12.0	7.45	65.4	39.5	7.20	21.5	4.13	6.33	.93	3.53
MAX	75	79	24	27	236	144	14	158	12	65	1.5	18
MIN	4.8	9.0	8.6	3.8	2.8	9.9	4.2	4.2	1.2	.86	.68	1.2
CFSM	.83	.88	.49	.30	2.65	1.60	.29	.87	.17	.26	.04	.14
IN.	.96	.98	.56	.35	2.76	1.94	.33	1.01	.19	.30	.05	.16

CAL YR 1970 TOTAL 7,289.64 MEAN 20.0 MAX 251 MIN .62 CFSM .81 IN 10.98
WTR YR 1971 TOTAL 6,292.26 MEAN 17.2 MAX 236 MIN .68 CFSM .70 IN 9.48

PEAK DISCHARGE (BASE, 260 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0015	5.76	346	02-22	1315	5.75	345
02-19	2115	5.48	318				

WABASH RIVER BASIN

03333700 Wildcat Creek at Kokomo, Ind.

LOCATION.--Lat 40°28'24", long 86°09'26", in NE¼NW¼ sec.2, T.23 N., R.3 E., Howard County, on right bank on property of Continental Steel Corporation in Kokomo, 0.3 mile downstream from Kokomo Creek, and 0.4 mile upstream from Dixon Road Bridge.

DRAINAGE AREA.--242 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 775.62 ft above mean sea level (levels by Indiana Department of Natural Resources).

AVERAGE DISCHARGE.--16 years, 203 cfs (11.39 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,530 cfs Feb. 20 (gage height, 6.28 ft); minimum daily, 23 cfs Aug. 31 to Sept. 2.
Period of record: Maximum discharge, 8,100 cfs Feb. 10, 1959; maximum gage height, 11.77 ft Apr. 21, 1964; minimum daily discharge, 7.2 cfs Sept. 30, 1956.

REMARKS.--Records poor. Some regulation at low stages for municipal water supply by regulation of Kokomo Reservoirs No. 1 and No. 2 (combined capacity, 4,170 acre-ft).

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	96	170	136	93	36	635	150	49	192	33	34	23
2	96	158	142	89	35	472	175	50	150	32	31	23
3	101	240	148	102	33	374	160	51	125	30	29	40
4	96	398	148	213	203	296	145	51	107	29	31	106
5	95	367	144	302	1,090	237	125	51	90	70	31	92
6	92	314	138	203	835	241	110	146	86	45	30	371
7	87	264	146	144	327	303	92	192	101	35	29	161
8	96	228	238	128	195	337	84	374	79	36	26	77
9	176	208	215	116	116	309	76	408	79	93	26	57
10	174	195	188	110	101	265	70	296	67	79	45	49
11	138	184	148	106	85	268	65	217	76	65	102	56
12	129	174	136	99	89	296	60	211	88	152	50	40
13	130	168	136	86	90	480	58	157	74	100	36	43
14	243	162	136	88	74	690	55	136	82	80	33	35
15	402	150	142	81	68	1,150	53	110	77	74	30	30
16	418	135	148	68	66	1,100	51	96	66	70	28	28
17	276	130	150	65	154	950	48	95	59	60	27	26
18	203	130	154	67	640	770	47	85	55	50	26	25
19	182	135	112	66	1,380	620	45	76	95	41	26	25
20	200	255	106	61	2,320	550	43	69	64	40	45	163
21	186	252	110	56	1,480	512	65	64	93	39	78	58
22	180	294	119	55	1,280	464	60	58	67	37	35	45
23	176	261	130	53	1,950	350	58	51	59	34	25	43
24	170	230	223	50	942	290	58	203	56	123	24	37
25	156	208	233	51	555	250	54	665	61	82	99	90
26	142	184	184	52	600	220	59	595	50	50	50	79
27	140	170	172	46	990	200	76	396	43	38	32	61
28	140	154	142	42	972	180	58	284	37	50	27	53
29	180	132	123	41	-----	175	54	214	34	93	25	50
30	210	132	104	43	-----	170	58	172	34	65	24	50
31	185	-----	101	38	-----	160	-----	154	-----	45	23	-----
TOTAL	5,294	6,182	4,652	2,814	16,706	13,314	2,311	5,776	2,346	1,970	1,157	2,037
MEAN	171	206	150	90.8	597	429	77.0	186	78.2	60.3	37.3	67.9
MAX	418	398	239	302	2,320	1,150	175	665	192	152	102	371
MIN	87	130	101	38	33	160	43	49	34	29	23	23
CFSM	.71	.95	.62	.38	2.47	1.77	.32	.77	.32	.25	.15	.28
IN.	.81	.95	.72	.43	2.57	2.05	.36	.89	.36	.29	.18	.31

CAL YR 1970 TOTAL 68,939 MEAN 189 MAX 1,740 MIN 26 CFSM .78 IN 10.60
WTR YR 1971 TOTAL 64,459 MEAN 177 MAX 2,320 MIN 23 CFSM .73 IN 9.91

PEAK DISCHARGE (BASE, 2,100 CFS).--Feb. 20 (1900) 2,530 cfs (6.28 ft).

03334000 Wildcat Creek at Owasco, Ind.

LOCATION.--Lat 40°27'50", long 86°38'15", in SE¼SE¼ sec.4, T.23 N., R.2 W., Carroll County, on left bank 500 ft downstream from bridge on State Highway 39, 0.5 mile northwest of Owasco, and 15 miles upstream from South Fork Wildcat Creek.

DRAINAGE AREA.--396 sq mi.

PERIOD OF RECORD.--October 1943 to current year. Prior to March 1944 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 624.63 ft above mean sea level. Prior to Oct. 1, 1950 nonrecording gage at site 500 ft upstream at same datum.

AVERAGE DISCHARGE.--28 years, 349 cfs (11.97 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,840 cfs Feb. 19 (gage height, 9.17 ft); minimum daily, 39 cfs Aug. 24, 31.
Period of record: Maximum discharge, 10,200 cfs Jan. 5, 1950 (gage height, 13.3 ft), from rating curve extended above 6,700 cfs; minimum daily, 11 cfs Sept. 25, 1944.
Flood of May 18, 1943, reached a stage of 14.0 ft, from floodmarks.

REMARKS.--Records good. Some regulation at low stages for municipal water supply by regulation of Kokomo Reservoirs No. 1 and No. 2 (combined capacity, 4,170 acre-ft).

REVISIONS (WATER YEARS).--WSP 1625: 1958. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	230	296	175	70	1,070	210	97	254	65	57	42
2	160	215	287	170	65	770	245	96	320	61	53	44
3	152	400	269	170	68	608	236	94	251	58	48	49
4	144	560	263	272	150	452	220	88	210	55	54	52
5	138	609	239	410	1,800	344	213	91	180	55	52	83
6	133	464	225	250	1,100	324	205	133	158	58	52	127
7	129	356	208	190	400	554	185	210	144	67	49	730
8	127	302	248	190	250	530	169	400	154	60	44	458
9	142	272	314	180	210	410	150	502	133	100	43	225
10	242	260	296	195	190	344	124	482	127	160	62	158
11	290	245	236	180	170	348	115	328	167	328	57	125
12	223	233	205	160	150	428	109	299	311	328	94	120
13	208	223	180	140	140	870	109	275	205	178	65	94
14	236	213	178	140	130	1,170	120	236	154	136	59	83
15	566	208	153	135	125	1,360	113	205	132	125	92	75
16	632	185	200	125	200	1,590	113	180	122	120	83	75
17	519	178	199	120	249	1,350	113	167	111	104	58	67
18	344	180	190	115	1,850	995	106	165	102	83	52	61
19	278	188	185	110	3,680	855	100	146	102	71	50	62
20	269	317	173	110	2,650	810	99	139	131	68	48	76
21	291	608	185	105	2,370	755	100	125	317	66	50	245
22	260	548	185	105	1,920	632	109	115	198	65	55	152
23	245	434	193	100	2,150	512	107	111	127	58	43	115
24	236	336	225	98	1,800	400	104	156	102	79	39	92
25	228	305	314	95	1,040	336	106	1,180	91	131	51	88
26	213	275	297	94	960	302	94	1,200	91	86	76	160
27	200	260	260	90	1,300	272	94	885	85	64	53	254
28	205	240	230	80	1,390	260	116	584	73	67	45	180
29	251	263	210	82	-----	242	116	380	64	72	44	142
30	308	299	195	82	-----	230	97	293	65	82	41	120
31	272	-----	190	80	-----	220	-----	245	-----	62	39	-----
TOTAL	7,813	9,425	7,047	4,528	26,576	19,353	4,097	2,706	4,682	3,112	1,748	4,353
MEAN	252	314	227	146	949	624	137	313	156	100	56.4	145
MAX	632	608	314	410	2,680	1,690	245	1,200	320	328	57	730
MIN	127	178	157	80	65	220	94	88	64	55	39	42
CFSM	.64	.70	.57	.37	2.40	1.58	.35	.79	.39	.25	.14	.37
IN.	.73	.89	.66	.43	2.50	1.82	.38	.91	.44	.29	.16	.41

CAL Y2 1970 TOTAL 114,134 MEAN 313 MAX 2,550 MIN 61 CFSM .79 IN 10.72
W2 Y2 1971 TOTAL 102,440 MEAN 281 MAX 3,680 MIN 39 CFSM .71 IN 9.62

PEAK DISCHARGE (BASE, 3,000 CFS).--Feb. 19 (1800) 4,840 cfs (9.17 ft).

03334500 South Fork Wildcat Creek near Lafayette, Ind.

LOCATION. --Lat 40°25'04", long 86°46'05", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 21, T. 23 N., R. 3 W., Tippecanoe County, on right bank 40 ft upstream from bridge on State Highway 26, 0.5 mile upstream from Middle Fork, 4.2 miles upstream from mouth, and 5 miles east of Lafayette.

DRAINAGE AREA. --243 sq mi.

PERIOD OF RECORD. --October 1943 to current year. Prior to March 1944 monthly discharge only, published in WSP 1305.

GAGE. --Water-stage recorder. Datum of gage is 566.60 ft above mean sea level (State Highway Department of Indiana bench mark). Prior to July 29, 1954, nonrecording gage at site 40 ft downstream at datum 3.15 ft lower. July 29, 1954, to Sept. 30, 1969, water-stage recorder at present site at datum 3.15 ft lower.

AVERAGE DISCHARGE. --28 years, 229 cfs (12.80 inches per year).

EXTREMES. --Current year: Maximum discharge, 4,040 cfs June 12 (gage height, 10.04 ft); minimum daily, 31 cfs Aug. 9, 10. Period of record: Maximum discharge, 12,600 cfs June 10, 1958 (gage height, 12.13 ft, present datum) from rating curve extended above 6,000 cfs on basis of contracted-opening measurement at 13.6 ft (present datum); minimum daily, 15 cfs Sept. 19, 22, 1944, Aug. 30, 31, Sept. 1, 14, 15, 1969. Flood in May 1943 reached a stage of 13.6 ft (present datum) from floodmarks (discharge, 17,900 cfs, by contracted-opening measurement).

REMARKS. --Records good.

REVISIONS (WATER YEARS). --WSP 1335: 1948(M). WSP 1505: 1947. WSP 1725: 1951-53(M), 1955(M). WSP 1909: 1955(P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	GCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	144	178	196	95	45	452	136	79	166	86	41	50
2	115	168	190	94	44	362	146	79	166	82	39	48
3	97	280	166	92	44	293	136	79	148	79	36	48
4	83	416	162	256	485	232	131	79	133	71	36	51
5	73	318	146	303	1,920	198	124	79	120	74	36	66
6	66	253	131	154	693	232	120	160	113	77	35	101
7	61	213	117	125	347	567	117	180	106	68	33	92
8	63	182	117	115	234	368	115	295	108	74	32	350
9	80	162	115	115	146	256	109	295	100	172	31	170
10	108	162	111	115	172	224	106	202	89	101	31	110
11	178	158	105	109	150	220	101	160	168	232	95	96
12	156	152	113	100	127	224	98	213	3,540	166	79	84
13	135	150	111	92	118	574	101	220	1,440	120	51	65
14	140	140	106	94	104	613	104	172	679	94	42	52
15	524	133	101	88	100	788	100	142	452	79	362	802
16	398	126	103	76	95	830	97	127	315	70	263	37
17	275	118	109	76	253	548	97	118	239	73	152	45
18	213	117	104	77	1,130	413	95	111	190	66	109	43
19	176	115	101	73	1,730	401	91	103	168	60	91	41
20	154	227	98	70	2,040	437	89	97	168	57	79	76
21	144	524	100	70	884	374	91	88	479	54	73	138
22	135	374	109	70	1,410	315	91	85	434	50	67	126
23	126	273	133	68	1,260	263	89	85	244	46	64	91
24	117	207	176	63	578	222	86	211	180	60	60	71
25	111	182	164	63	497	198	85	1,930	152	74	60	70
26	104	168	152	62	623	184	83	1,040	136	60	59	194
27	100	158	140	61	892	172	83	588	120	51	55	227
28	100	150	120	58	662	166	86	395	104	51	52	158
29	136	144	110	54	-----	160	85	283	97	80	51	118
30	248	172	100	54	-----	146	82	224	91	50	48	95
31	222	-----	98	52	-----	136	-----	186	-----	43	47	-----
TOTAL	4,782	6,120	3,908	2,994	16,787	10,568	3,074	8,105	10,645	2,520	2,309	4,405
MEAN	154	204	126	96.6	600	341	102	261	355	81.3	74.5	147
MAX	524	524	196	303	2,040	830	146	1,930	3,540	232	362	902
MIN	61	115	98	52	44	136	82	79	89	43	31	37
CFSM	.63	.84	.52	.40	2.47	1.40	.42	1.07	1.46	.33	.31	.60
IN.	.73	.94	.60	.46	2.57	1.62	.47	1.24	1.63	.39	.35	.67

CAL YR 1970 TOTAL 90,482 MEAN 248 MAX 2,950 MIN 30 CFSM 1.02 IN 13.85
 WTR YR 1971 TOTAL 76,217 MEAN 209 MAX 3,540 MIN 31 CFSM .86 IN 11.67

PEAK DISCHARGE (BASE, 3,000 CFS). --June 12 (1215) 4,040 cfs (10.04 ft).

03335000 Wildcat Creek near Lafayette, Ind.

LOCATION.--Lat 40°26'26", long 86°49'46", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 14, T.23 N., R.4 W., Tippecanoe County, on downstream side of bridge on County Road 2A East, 2.5 miles upstream from mouth, 3 miles downstream from South Fork Wildcat Creek, and 3.7 miles northeast of Courthouse in Lafayette.

DRAINAGE AREA.--794 sq mi.

PERIOD OF RECORD.--May 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 527.66 ft above mean sea level (Indiana Flood Control and Water Resources Commission bench mark). Prior to June 13, 1957, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--17 years, 698 cfs (11.94 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,070 cfs Feb. 20 (gage height, 11.28 ft); minimum daily, 125 cfs Aug. 31.
Period of record: Maximum discharge, 25,000 cfs June 10, 1958 (gage height, 21.52 ft), from rating curve extended above 18,000 cfs; minimum daily, 46 cfs Sept. 28, 29, 1954.

REMARKS.--Records good. Some regulation during low flow for municipal water supply for Kokomo. Records of water quality for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1555: 1955, 1957(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	378	504	620	360	150	1,830	442	253	558	211	163	128
2	320	470	595	350	135	1,350	474	243	690	204	155	130
3	288	695	540	350	135	1,100	470	250	553	201	148	133
4	253	1,040	522	605	600	852	446	250	454	187	143	145
5	239	995	470	780	3,000	705	422	229	398	197	145	166
6	222	830	438	500	2,000	695	410	338	354	187	145	239
7	208	705	398	400	1,200	1,260	382	462	323	187	145	2,150
8	218	595	394	370	800	1,030	358	770	330	214	140	1,050
9	243	531	522	380	550	830	334	1,030	302	462	133	549
10	320	504	478	380	460	715	302	858	281	330	133	366
11	522	490	454	370	410	700	295	685	607	847	232	285
12	438	458	406	320	370	760	267	640	4,760	725	215	250
13	394	446	370	300	335	1,560	274	670	2,490	442	172	218
14	422	422	358	280	305	2,000	278	544	1,220	306	155	181
15	1,020	402	362	280	280	2,670	278	466	825	271	594	160
16	1,740	390	378	260	260	3,030	264	430	635	246	386	153
17	863	354	390	240	500	2,430	267	398	490	246	250	148
18	670	358	382	230	2,800	1,720	264	382	422	218	181	163
19	540	346	366	225	4,650	1,490	253	362	390	197	163	140
20	478	558	358	220	6,120	1,490	246	338	394	187	150	181
21	482	1,240	362	215	4,090	1,310	260	313	1,520	184	143	353
22	458	1,030	374	210	4,710	1,110	253	306	1,030	181	145	330
23	426	858	406	205	4,460	924	264	295	576	178	143	250
24	402	655	462	200	3,190	790	253	369	414	187	133	201
25	398	600	531	190	2,010	700	253	4,110	350	257	140	197
26	370	544	520	190	2,030	630	243	2,860	309	222	145	320
27	354	508	500	185	2,700	567	246	1,830	281	181	153	595
28	347	495	460	170	2,490	544	260	1,240	243	184	135	430
29	414	504	430	165	-----	513	281	918	229	187	133	316
30	640	576	400	170	-----	478	250	710	215	187	130	260
31	595	-----	380	160	-----	458	-----	576	-----	169	125	-----
TOTAL	13,957	18,103	13,626	9,260	50,740	36,241	9,289	23,125	21,643	8,182	5,473	10,187
MFAN	450	673	440	299	1,812	1,169	310	746	721	264	177	340
MAX	1,040	1,240	620	780	6,120	3,030	474	4,110	4,760	847	594	2,150
MIN	208	346	358	160	135	458	243	229	215	169	125	128
CFSM	.57	.76	.55	.38	2.28	1.47	.39	.94	.91	.33	.22	.43
IN.	.65	.85	.64	.43	2.38	1.70	.44	1.08	1.01	.38	.26	.48

CAL YR 1970 TOTAL 264,712 MEAN 725 MAX 7,090 MIN 132 CFSM .91 IN 12.40
WTR YR 1971 TOTAL 219,826 MEAN 602 MAX 6,120 MIN 125 CFSM .76 IN 10.30

PEAK DISCHARGE (BASE, 6,300 CFS).--Feb. 20 (1045) 7,070 cfs (11.28 ft).

03335500 Wabash River at Lafayette, Ind.

LOCATION.--Lat 40°25'19", long 86°53'49", in NE¼SW¼ sec.20, T.23 N., R.4 W., Tippecanoe County, on right bank 20 ft downstream from Brown Street Bridge in Lafayette, 5.1 miles downstream from Wildcat Creek, and at mile 311.9.

DRAINAGE AREA.--7,267 sq mi.

PERIOD OF RECORD.--February 1901 to January 1902, March to December 1902, January to May 1903, (gage heights only), October 1923 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at present site since October 1913 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 504.14 ft above mean sea level. Prior to May 2, 1903, nonrecording gage 0.5 mile upstream at different datum. Oct. 7, 1923, to Nov. 20, 1933, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--48 years (1923 to current year), 6,228 cfs (11.48 inches per year).

EXTREMES.--Current year: Maximum discharge, 31,000 cfs Feb. 20 (gage height, 16.01 ft); minimum daily, 889 cfs Sept. 3. Period of record: Maximum discharge, 131,000 cfs May 19, 1943 (gage height, 28.47 ft); minimum daily, 399 cfs Sept. 26, 1941. Flood of Mar. 26, 1913, reached a stage of 32.9 ft, from floodmark determined by U.S. Weather Bureau (discharge, 190,000 cfs).

REMARKS.--Records excellent. Natural flow of stream affected by storage reservoirs and power development. Record of water temperature for the current year is published in Part 2 of the report.

REVISIONS (WATER YEARS).--WSP 1335: 1929, 1932-33, 1936. WSP 1505: 1950. WSP 1555: 1928(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,130	4,600	11,000	2,900	1,400	23,200	4,730	2,030	2,940	2,880	1,290	1,000
2	3,610	4,370	9,440	2,900	1,300	21,600	4,760	1,850	4,800	2,460	1,260	950
3	3,250	5,070	6,800	3,070	1,300	20,000	5,010	1,860	12,500	1,930	1,260	889
4	3,200	7,140	6,150	3,300	1,500	15,600	5,190	1,950	9,150	1,820	1,270	2,340
5	2,790	7,000	5,490	4,000	15,000	11,800	4,820	2,220	6,830	1,860	1,300	2,840
6	2,920	6,280	5,030	3,500	27,600	10,800	4,340	2,470	6,060	1,940	1,210	2,880
7	2,900	5,350	4,330	2,500	19,700	10,200	4,180	3,310	7,720	1,840	1,230	4,760
8	3,010	5,210	4,200	1,800	14,900	8,860	3,960	5,900	13,800	1,680	1,150	5,330
9	3,200	4,490	3,960	2,200	12,500	7,960	3,830	6,460	10,400	3,700	1,060	4,580
10	3,650	4,600	3,800	2,700	12,000	7,000	3,570	6,610	6,850	3,130	1,100	3,880
11	4,130	4,320	3,840	3,490	9,810	6,510	3,440	6,470	5,580	5,040	1,170	2,950
12	4,450	4,560	3,660	3,430	6,370	6,340	3,340	6,470	12,000	6,050	1,590	2,720
13	4,350	4,610	3,620	3,310	5,600	8,830	3,200	5,770	9,450	4,860	1,260	2,210
14	3,850	4,290	3,670	3,280	5,000	15,500	3,110	4,520	6,830	5,360	1,370	2,030
15	4,730	4,170	3,990	3,000	4,500	19,700	2,990	3,790	4,390	4,190	1,750	1,520
16	6,960	4,080	4,110	2,500	4,500	24,800	2,870	3,350	3,430	3,540	1,620	1,360
17	6,520	3,990	4,030	2,200	4,500	23,300	2,920	3,120	3,020	2,880	1,360	1,590
18	5,280	3,870	4,010	2,000	11,400	17,700	2,780	3,020	2,750	2,530	1,290	1,750
19	4,780	3,690	3,670	1,950	23,700	12,900	2,570	2,690	2,950	2,040	1,150	1,900
20	4,070	4,180	4,020	1,950	29,400	12,300	2,300	2,590	2,970	1,920	1,020	2,850
21	4,220	5,510	4,210	2,000	28,900	12,000	2,500	2,080	3,930	1,540	1,060	2,920
22	3,810	7,420	4,520	2,100	25,900	11,000	2,480	2,310	3,800	1,430	1,090	3,030
23	3,800	6,570	4,110	2,200	30,000	9,530	2,270	1,770	2,820	1,400	1,170	3,150
24	3,580	5,300	3,900	2,240	26,800	8,050	2,340	2,160	2,300	1,680	1,210	2,770
25	3,540	4,810	3,750	2,420	21,700	6,870	2,270	6,830	2,490	1,590	1,530	2,540
26	3,350	4,570	3,600	2,270	22,200	6,480	2,030	9,810	2,140	1,690	1,940	3,250
27	3,240	4,680	3,300	1,830	25,400	6,010	2,180	8,070	1,880	1,290	1,780	5,060
28	3,250	4,540	3,100	1,430	26,000	5,550	1,980	5,900	2,000	1,360	1,340	6,530
29	3,620	5,660	3,000	1,400	-----	5,190	2,310	4,690	2,110	1,530	1,250	6,710
30	4,260	9,440	2,900	1,500	-----	5,240	1,890	4,430	2,460	1,520	1,160	6,000
31	4,960	-----	2,900	1,500	-----	4,890	-----	3,300	-----	1,320	1,060	-----
TOTAL	123,410	154,370	138,110	76,870	418,780	365,410	96,160	127,800	160,350	78,000	40,300	92,289
MEAN	3,981	5,146	4,455	2,480	14,960	11,790	3,205	4,123	5,345	2,516	1,300	3,076
MAX	6,960	9,440	11,000	4,000	30,000	24,800	5,190	9,810	13,800	6,050	1,940	6,710
MIN	2,790	3,690	2,900	1,400	1,300	4,890	1,890	1,770	1,880	1,290	1,020	889
CFSM	.55	.71	.61	.34	2.06	1.62	.44	.57	.74	.35	.18	.42
IN.	.63	.79	.71	.39	2.14	1.87	.49	.65	.82	.40	.21	.47
CAL YR 1970	TOTAL 2,334,670	MEAN 6,396	MAX 41,700	MIN 1,280	CFSM .88	IN 11.95						
WTR YR 1971	TOTAL 1,871,849	MEAN 5,128	MAX 30,000	MIN 889	CFSM .71	IN 9.58						

03335690 Mud Pine Creek near Oxford, Ind.

LOCATION.--Lat 40°31'24", long 87°20'30", in NE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.17, T.24 N., R.8 W., Benton County, on right bank 5 ft downstream from county road bridge, 0.3 mile north of Chase, 2 miles east of Boswell, and 5 miles west of Oxford.

DRAINAGE AREA.--39.4 sq mi.

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is 718.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge during period, 1,140 cfs July 9 (gage height, 9.46 ft); minimum daily, 0.25 cfs Sept. 24.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1									8.0	1.8	7.3	.97
2									14	.75	6.5	.57
3									13	.55	6.5	1.5
4									11	1.5	6.1	2.2
5									11	49	5.7	3.4
6									10	21	4.5	8.1
7									9.2	11	4.2	3.4
8									7.3	50	3.8	2.2
9									6.5	756	3.8	1.5
10									6.1	236	2.4	1.2
11									7.3	331	5.3	1.5
12									11	166	2.6	1.5
13									126	111	2.2	1.2
14									41	78	1.8	.97
15									24	61	1.8	.40
16									14	48	2.2	.40
17									10	52	1.5	.55
18									8.8	36	1.5	.40
19									10	31	1.2	.40
20									34	25	4.2	3.8
21									53	20	2.6	2.6
22									20	17	1.2	.55
23									13	14	1.5	.40
24									9.2	21	1.2	.25
25									12	14	2.2	3.4
26									16	12	2.2	10
27									7.7	10	.75	3.8
28									4.5	13	.97	2.6
29									3.4	13	.57	2.2
30									3.0	10	.57	1.8
31		-----			-----		-----		-----	8.4	1.2	-----
TOTAL									524.0	2,215.00	51.86	64.16
MEAN									17.5	71.6	2.96	2.14
MAX									126	756	7.3	10
MIN									3.0	.55	.75	.25
CFSM									.44	1.82	.08	.05
IN.									.49	2.10	.09	.06

PEAK DISCHARGE (BASE, 600 CFS).--July 9 (0100) 1,140 cfs (9.46 ft).

WABASH RIVER BASIN

03335700 Big Pine Creek near Williamsport, Ind.

LOCATION.--Lat 40°19'03", long 87°17'26", in SW¼SE¼ sec.26, T.22 N., R.8 W., Warren County, on downstream side of county road bridge, 1.6 miles north of city limits of Williamsport, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--323 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 511.68 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to May 19, 1967, nonrecording gage and crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--16 years, 243 cfs (10.22 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,850 cfs Feb. 4 (gage height, 10.68 ft); minimum daily, 13 cfs Sept. 16.
Period of record: Maximum discharge, 12,600 cfs Feb. 10, 1959 (gage height, 16.00 ft, from floodmark), from rating curve extended above 6,000 cfs on basis of contracted-opening measurement; minimum daily, 6.5 cfs Oct. 6-8, 1966.

REMARKS.--Records good. Records of chemical analysis for the current year are published in Part 2 of this report.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	139	247	381	84	45	455	188	67	65	44	51	16
2	124	239	318	85	41	388	195	67	157	39	45	16
3	110	354	265	90	39	302	185	67	148	33	44	16
4	95	413	247	309	700	223	167	63	106	30	42	18
5	83	345	208	208	3,110	209	154	65	84	142	41	18
6	79	287	177	150	1,270	213	148	86	73	220	37	26
7	72	255	170	140	635	271	145	98	67	119	34	34
8	108	215	166	130	302	202	139	199	61	86	32	30
9	309	208	163	130	180	181	130	216	57	1,770	30	23
10	377	215	149	125	90	178	122	167	52	2,220	32	19
11	282	194	152	125	98	188	111	174	49	1,430	38	18
12	227	187	156	110	110	216	114	298	213	1,030	50	16
13	208	184	139	105	84	685	117	266	570	635	35	15
14	232	166	127	97	70	715	114	213	745	392	29	15
15	377	156	118	90	66	1,180	103	174	410	284	26	14
16	256	145	130	70	84	1,070	101	154	202	220	24	13
17	239	142	145	80	220	750	103	142	139	199	23	14
18	209	139	130	72	584	585	98	127	108	167	22	14
19	184	136	130	65	1,740	610	91	119	91	145	20	14
20	180	177	118	60	1,700	670	89	114	125	122	19	20
21	184	208	115	60	605	600	91	103	244	103	22	19
22	170	187	124	64	1,280	505	91	91	209	91	23	18
23	159	159	139	70	1,100	415	84	86	127	81	21	17
24	152	150	149	66	570	343	81	89	93	79	19	15
25	145	140	135	60	505	298	79	98	94	84	28	20
26	139	135	120	54	655	266	75	89	89	73	23	37
27	136	145	110	48	906	244	73	77	101	65	21	36
28	163	194	98	50	630	239	79	73	67	69	18	28
29	386	300	92	51	-----	220	77	67	52	75	18	23
30	355	395	87	49	-----	195	69	65	45	69	17	20
31	305	-----	85	47	-----	185	-----	65	-----	56	17	-----
TOTAL	6,363	6,421	4,847	2,944	17,419	12,801	3,413	3,779	4,633	10,172	901	602
MEAN	205	214	156	95.0	622	413	114	122	154	328	29.1	20.1
MAX	395	413	381	309	3,110	1,180	195	298	745	2,220	51	37
MIN	72	135	85	47	39	178	69	63	45	30	17	13
CFSM	.63	.66	.48	.29	1.93	1.29	.35	.38	.49	1.02	.09	.06
IN.	.73	.74	.56	.34	2.01	1.47	.39	.44	.53	1.17	.10	.07

CAL YR 1970 TOTAL 95,768 MEAN 262 MAX 4,890 MIN 21 CFSM .81 IN 11.03
WTR YR 1971 TOTAL 74,255 MEAN 204 MAX 3,110 MIN 13 CFSM .63 IN 8.56

PEAK DISCHARGE (BASE, 2,800 CFS).--Feb. 4 (2230) 4,850 cfs (10.68 ft).

03336000 Wabash River at Covington, Ind.

LOCATION.--Lat 40°08'24", long 87°24'20", in NE¼NW¼ sec.35, T.20 N., R.9 W., on Fountain-Warren county line, near center of span on downstream side of bridge on U.S. Highway 136 at Covington, 2.9 miles downstream from Oppossum Run, 3.6 miles upstream from Spring Creek, and at mile 271.1.

DRAINAGE AREA.--8,208 sq mi.

PERIOD OF RECORD.--October 1939 to current year. Gage-height records collected at site 0.4 mile downstream January 1927 to December 1930 and at present site since December 1930 are contained in reports of U.S. Weather Bureau.

GAGE.--Nonrecording gage. Datum of gage is 473.97 ft above mean sea level.

AVERAGE DISCHARGE.--32 years, 6,994 cfs (11.57 inches per year).

EXTREMES.--Current year: Maximum discharge observed, 30,800 cfs Feb. 23 (gage height, 19.48 ft); minimum daily, 1,100 cfs Aug. 20-22, Sept. 3.

Period of record: Maximum discharge, 147,000 cfs May 20, 1943 (gage height, 32.44 ft); minimum daily, 487 cfs Sept. 29, 1941. Flood in March 1913 reached a stage of 35.1 ft, from floodmark determined by U.S. Weather Bureau (discharge, 200,000 cfs).

REMARKS.--Records fair. Natural flow of stream affected by reservoirs.

REVISIONS.--WSP 1275: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4,800	5,200	11,000	3,100	1,500	26,600	5,450	2,300	4,390	2,900	1,700	1,200
2	4,200	4,900	10,000	3,100	1,400	24,800	5,750	2,300	5,300	2,500	1,600	1,200
3	3,600	5,200	8,500	3,100	1,400	22,500	5,750	2,300	13,300	2,300	1,600	1,100
4	3,300	6,600	7,000	3,700	1,700	20,900	5,900	2,200	12,000	2,200	1,500	1,300
5	3,100	7,600	6,100	4,300	16,000	17,400	5,750	2,300	9,000	2,200	1,400	3,000
6	3,200	7,000	5,400	3,500	24,800	12,600	5,400	2,800	7,400	2,700	1,400	2,800
7	3,300	6,400	5,000	2,800	25,800	12,300	5,200	3,500	6,600	2,500	1,300	3,100
8	3,400	5,700	4,700	2,100	19,800	11,700	4,900	5,000	9,900	2,300	1,300	4,500
9	3,500	5,300	4,400	2,500	15,000	9,590	4,600	6,600	12,000	5,040	1,300	5,000
10	3,600	5,100	4,200	3,300	14,600	8,740	4,400	7,200	11,000	8,740	1,300	4,500
11	3,700	5,100	4,200	3,800	13,500	8,240	4,200	7,600	8,000	8,910	1,500	3,500
12	4,200	5,100	4,100	3,800	11,400	7,920	4,000	7,800	9,750	7,760	1,700	3,000
13	4,500	5,100	4,000	3,700	8,240	7,440	3,800	7,100	16,600	7,920	1,500	2,500
14	4,700	4,900	4,000	3,500	5,900	13,000	3,700	6,600	12,800	6,800	1,800	2,200
15	5,200	4,800	4,300	3,000	5,170	18,800	3,500	6,000	10,100	6,200	2,300	2,000
16	6,400	4,600	4,500	2,700	4,780	22,700	3,400	5,400	7,120	5,600	2,100	1,800
17	7,200	4,500	4,400	2,500	5,450	25,100	3,300	4,500	4,700	5,170	1,900	1,700
18	6,400	4,400	4,300	2,300	12,300	23,400	3,200	3,900	4,000	4,260	1,500	1,700
19	6,000	4,200	4,000	2,200	20,000	19,200	3,000	3,500	3,600	3,600	1,300	1,900
20	5,400	4,700	4,200	2,100	25,400	15,300	2,900	3,200	3,400	3,900	1,100	2,100
21	4,600	5,400	4,400	2,200	28,100	14,100	2,900	3,000	4,000	3,000	1,100	2,900
22	4,400	8,000	4,600	2,300	30,500	13,300	2,800	2,800	4,600	2,500	1,100	3,500
23	4,300	7,400	4,500	2,400	30,800	11,900	2,700	2,500	4,000	2,300	1,200	3,700
24	4,100	6,400	4,400	2,500	27,600	10,100	2,700	2,360	3,300	2,300	1,200	3,000
25	3,900	5,400	4,100	2,600	26,600	9,080	2,600	2,690	2,900	2,100	1,600	2,800
26	3,800	5,100	3,700	2,600	25,600	7,920	2,500	8,740	3,200	2,200	1,900	3,200
27	3,700	5,100	3,500	2,300	25,400	7,280	2,500	12,600	2,800	1,900	1,900	4,000
28	3,600	5,100	3,300	1,700	26,800	6,800	2,500	10,800	2,500	1,900	1,700	5,000
29	4,000	5,600	3,200	1,500	-----	6,050	2,400	8,740	2,300	2,100	1,500	6,600
30	4,500	8,000	3,200	1,600	-----	5,300	2,400	5,750	2,600	1,900	1,400	6,000
31	5,400	-----	3,100	1,700	-----	4,910	-----	4,780	-----	1,800	1,200	-----
TOTAL	136,000	167,900	150,300	84,500	455,540	424,970	114,100	156,860	202,270	117,500	46,800	90,800
MEAN	4,387	5,597	4,848	2,726	16,270	13,710	3,803	5,060	6,742	3,790	1,510	3,027
MAX	7,200	8,000	11,000	4,300	30,800	26,600	5,900	12,600	16,600	8,910	2,300	6,600
MIN	3,100	4,200	3,100	1,500	1,400	4,910	2,400	2,200	2,300	1,800	1,100	1,100
CFSM	.53	.68	.59	.33	1.98	1.67	.46	.62	.82	.46	.18	.37
IN.	.62	.76	.68	.38	2.06	1.93	.52	.71	.92	.53	.21	.41
CAL YR 1970	TOTAL 2,628,690	MEAN 7,202	MAX 41,400	MIN 1,650	CFSM .88	IN 11.91						
WTR YR 1971	TOTAL 2,147,540	MEAN 5,884	MAX 30,800	MIN 1,100	CFSM .72	IN 9.73						

WABASH RIVER BASIN

03339000 Vermilion River near Danville, Ill.

LOCATION.--Lat 40°05'53", long 87°35'37", in SE¼NW¼ sec.22, T.19 N., R.11 W., Vermilion County, on left bank 1.5 miles upstream from Stony Creek and 2.5 miles southeast of Danville.

DRAINAGE AREA.--1,279 sq mi.

PERIOD OF RECORD.--October 1914 to September 1921, June 1928 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 503.33 ft above mean sea level (levels by Corps of Engineers). Prior to Jan. 9, 1935, nonrecording gage at site 0.3 mile upstream at same datum.

AVERAGE DISCHARGE.--50 years, 886 cfs (9.41 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,910 cfs Feb. 5 (gage height, 13.61 ft); minimum, 64 cfs Sept. 3, 4, 18.
Period of record: Maximum discharge, 48,700 cfs Mar. 13, 1939 (gage height, 28.59 ft); minimum daily, 2 cfs Oct. 9-14, 1920, Aug. 10, 1930.

REMARKS.--Records good except those for winter periods, which are poor. Flow regulated at times by storage at Lake Vermilion on North Fork Vermilion River, 4.5 miles above station (usable capacity, 7,440 acre-ft in 1940), and by Danville sewage-disposal plant.

REVISIONS (WATER YEARS).--WSP 853: 1936(M). WSP 973: 1939. WSP 1173: 1915-16, 1920, 1929. WSP 1335: 1934(m). WSP 1725: 1960 (monthly and yearly figures). WSP 1909: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	795	1,060	725	324	130	1,950	585	227	273	141	332	72
2	562	793	629	335	120	1,410	744	220	306	132	265	72
3	524	757	651	356	120	926	615	217	559	117	224	70
4	481	726	609	614	561	888	560	199	488	106	201	70
5	438	686	568	660	8,400	858	565	199	412	1,020	184	84
6	408	653	483	600	7,000	888	625	314	337	2,900	165	111
7	397	627	371	400	2,500	1,077	535	405	290	1,680	151	339
8	436	606	356	370	900	1,020	425	490	277	910	149	305
9	512	577	390	360	350	852	395	515	264	1,100	149	183
10	723	580	394	360	380	828	465	465	242	1,150	145	132
11	916	595	402	350	470	840	375	605	195	2,760	236	119
12	747	561	431	340	415	834	362	2,430	186	2,830	202	101
13	520	515	462	320	330	1,060	415	2,920	189	1,800	180	113
14	1,360	448	338	300	310	1,570	540	1,650	210	1,830	143	101
15	2,760	434	320	260	310	3,450	346	1,260	378	1,360	141	81
16	2,450	418	338	210	287	4,240	334	1,090	264	810	120	75
17	1,270	408	378	200	417	3,427	342	993	199	606	113	77
18	1,120	409	402	190	1,180	2,180	338	668	171	489	112	72
19	1,140	414	403	170	3,480	2,250	302	657	151	1,050	101	83
20	815	538	381	160	4,170	2,130	262	622	164	1,830	54	113
21	835	622	381	180	2,870	1,790	255	554	211	962	87	100
22	864	638	375	226	4,100	1,670	273	501	194	597	83	165
23	807	641	427	231	5,920	1,480	259	459	213	478	82	157
24	757	449	419	238	3,640	1,280	252	461	166	403	88	120
25	724	363	378	233	2,330	1,130	234	525	417	578	184	155
26	672	432	349	200	2,310	894	227	504	452	439	118	186
27	630	426	340	170	3,000	680	252	486	353	316	114	427
28	640	447	340	160	2,720	700	358	402	235	333	129	376
29	835	526	370	160	-----	744	330	334	179	480	101	267
30	1,230	695	300	150	-----	792	276	328	154	724	84	222
31	1,180	-----	300	140	-----	665	-----	313	-----	459	79	-----
TOTAL	27,548	17,044	13,034	9,967	58,813	44,559	11,836	21,013	8,131	30,390	4,556	4,547
MEAN	899	558	420	289	2,100	1,437	395	678	271	980	147	152
MAX	2,760	1,060	725	660	8,400	4,240	744	2,920	559	2,900	332	427
MIN	397	363	300	140	120	665	227	199	151	106	79	70
CFSM	.70	.44	.33	.23	1.64	1.12	.31	.53	.21	.77	.11	.12
IN.	.80	.50	.38	.26	1.71	1.30	.34	.61	.24	.88	.13	.13

CAL YR 1970 TOTAL 351,970 MEAN 964 MAX 16,000 MIN 72 CFSM .75 IN 10.24
WTR YR 1971 TOTAL 250,438 MEAN 686 MAX 8,400 MIN 70 CFSM .54 IN 7.28

PEAK DISCHARGE (BASE, 6,000 CFS).--Feb. 5 (2330) 8,910 cfs (13.61 ft). Feb. 22 (2400) 6,350 cfs (10.89 ft).

03339108 East Fork Coal Creek near Hillsboro, Ind.

LOCATION.--Lat 40°06'06", long 87°07'54", in NW¼SW¼ sec.8, T.19 N., R.6 W., Fountain County, at center pier on downstream side of bridge on County Road 700 East, 1.5 miles east of Hillsboro, 3.7 miles northwest of Waynetown, and 9.6 miles upstream from mouth.

DRAINAGE AREA.--33.4 sq mi.

PERIOD OF RECORD.--September 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 673.76 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,900 cfs May 25 (gage height, 9.05 ft); minimum daily, 3.7 cfs Sept. 19.

Period of record: Maximum discharge, 1,900 cfs May 25, 1971 (gage height, 9.05 ft); minimum daily, 3.7 cfs Sept. 19, 1971.

REMARKS.--Records good except those for parts of December, January, and February, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.6	15	27	8.6	5.0	33	15	8.6	28	9.6	5.9	6.3
2	9.4	27	21	8.7	5.0	30	15	8.6	26	8.0	5.9	5.8
3	8.5	45	19	12	5.0	24	13	8.6	23	7.6	6.0	5.5
4	8.4	30	17	56	30	20	13	8.6	20	7.6	5.8	5.5
5	8.5	23	12	35	90	20	12	9.0	16	9.6	5.8	5.5
6	8.0	19	13	25	50	74	13	12	13	8.0	5.5	5.4
7	8.0	16	16	20	35	58	13	21	11	7.6	5.8	5.4
8	21	14	12	18	27	32	12	33	10	10	5.3	5.4
9	40	15	12	16	20	26	11	19	8.0	330	5.4	5.1
10	38	17	12	14	13	28	13	15	7.0	170	5.8	5.0
11	21	15	13	13	14	31	10	21	8.0	110	19	6.8
12	20	15	13	12	15	34	11	36	130	66	6.5	5.8
13	20	14	13	11	12	54	11	22	650	30	6.3	5.3
14	24	13	12	10	11	47	11	17	150	18	46	4.9
15	23	14	11	9.5	10	104	10	14	45	15	50	4.5
16	18	13	15	9.0	15	60	13	13	38	13	13	4.0
17	15	13	18	8.0	100	42	9.9	12	26	12	10	4.0
18	13	14	16	7.8	170	35	9.4	11	18	11	8.9	3.9
19	12	19	15	7.6	252	50	9.0	9.8	14	118	6.9	3.7
20	14	15	13	7.5	126	40	9.0	9.1	13	16	5.2	17
21	13	48	14	7.5	42	35	9.9	9.0	12	9.9	5.9	8.6
22	12	34	17	8.0	339	32	9.2	8.0	11	8.0	5.8	7.3
23	12	23	24	9.0	61	29	9.0	8.0	9.3	8.0	5.8	6.6
24	11	30	21	8.7	57	25	9.0	15	3.0	8.7	5.5	5.0
25	10	17	17	8.3	57	22	8.6	800	21	7.0	84	23
26	10	16	13	8.0	111	20	8.6	170	16	6.7	17	39
27	9.8	16	10	6.0	96	19	9.8	90	13	6.6	9.7	15
28	14	17	9.6	6.5	44	19	10	50	11	12	8.6	10
29	36	26	9.0	6.7	-----	17	9.1	40	9.6	8.7	7.8	9.0
30	25	32	8.6	7.0	-----	16	8.6	35	9.1	6.7	7.0	8.0
31	19	-----	8.5	6.0	-----	15	-----	30	-----	6.3	5.5	-----
TOTAL	511.2	625	451.7	390.4	1,812.0	1,091	320.1	1,563.3	1,374.0	1,065.5	392.8	247.3
MEAN	16.5	20.8	14.6	12.6	64.7	35.2	10.7	50.4	45.8	34.4	12.7	9.24
MAX	40	48	27	56	339	104	16	800	650	330	84	39
MIN	8.0	13	8.5	6.0	5.0	15	8.6	8.0	7.0	6.3	5.4	3.7
CFSM	.49	.62	.44	.38	1.94	1.05	.32	1.51	1.37	1.03	.38	.25
IV.	.57	.70	.50	.43	2.02	1.22	.36	1.74	1.53	1.19	.44	.28

CAL YR 1970 TOTAL 11,442.7 MEAN 31.3 MAX 691 MIN 5.2 CFSM .94 IN 12.74
WTR YR 1971 TOTAL 9,844.4 MEAN 27.0 MAX 800 MIN 3.7 CFSM .81 IN 10.96

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-22	0845	5.44	625	07-09	Unknown	Unknown	a 700
05-25	Unknown	9.05	1,900	07-19	0315	4.91	510
06-13	Unknown	7.68	1,370				

a about

03339120 Coal Creek at Coal Creek, Ind.

LOCATION.--Lat 40°01'42", long 87°22'30", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.6, T.18 N., R.8 W., Fountain County, on downstream side of county road bridge, 0.7 mile southeast of Coal Creek.

DRAINAGE AREA.--214 sq mi.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 505.96 ft above mean sea level (levels by Corps of Engineers). Prior to Sept. 16, 1970, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--7 years, 174 cfs (11.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,920 cfs Feb. 4 (gage height, 11.15 ft); minimum daily, 16 cfs Sept. 17-19.
Period of record: Maximum discharge, 10,100 cfs Aug. 4, 1968 (gage height, 17.5 ft estimated by gage observer); minimum daily, 6.0 cfs Sept. 12, 13, 1966.

REMARKS.--Records good except those for periods of no gage-height record and for parts of December, January, and February, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31	64	121	32	24	266	111	47	102	41	26	23
2	30	100	109	32	24	226	111	45	33	39	25	25
3	23	100	94	35	23	188	100	44	95	35	26	23
4	27	150	97	239	500	152	94	44	86	33	25	23
5	27	100	77	193	1,660	148	88	44	75	54	25	23
6	27	70	68	100	690	216	84	72	67	51	25	35
7	13	93	56	80	219	415	94	99	67	36	25	23
8	25	70	69	73	130	258	91	242	59	37	24	23
9	57	64	63	65	74	206	77	167	55	2,090	23	22
10	71	70	62	60	50	190	74	123	52	961	25	22
11	49	66	63	55	52	194	70	107	53	730	80	22
12	59	64	69	50	56	188	70	440	961	425	30	23
13	48	50	66	45	46	276	70	320	1,170	248	28	22
14	55	56	61	43	39	290	72	210	543	168	33	20
15	54	54	57	41	36	543	67	154	248	178	280	19
16	53	52	61	38	70	483	65	128	170	105	104	17
17	50	51	78	35	280	306	65	107	131	88	54	16
18	46	49	80	33	948	248	63	90	105	77	43	16
19	41	49	76	31	1,343	258	60	80	100	909	34	15
20	43	88	69	30	1,070	274	59	72	104	76	30	29
21	45	188	69	32	385	230	57	65	86	50	28	38
22	42	152	81	33	1,520	276	57	60	104	35	27	30
23	41	110	101	35	901	222	55	57	75	35	26	23
24	38	67	80	33	368	182	54	79	66	40	25	20
25	36	58	60	30	393	162	54	1,300	113	32	111	34
26	35	70	50	28	528	151	51	490	116	31	104	120
27	34	78	40	25	673	140	52	290	71	30	47	81
28	60	80	36	26	373	137	57	212	55	38	33	48
29	130	82	34	27	-----	128	54	162	47	50	30	36
30	105	176	32	28	-----	116	50	135	44	30	26	31
31	90	-----	32	26	-----	111	-----	116	-----	28	24	-----
TOTAL	1,493	2,578	2,130	1,533	12,423	7,240	2,106	5,600	5,113	6,790	1,443	909
MEAN	48.2	85.9	67.7	52.7	444	234	73.2	181	170	219	46.5	30.3
MAX	130	190	121	239	1,660	543	111	1,300	1,170	2,090	280	120
MIN	19	49	32	25	23	111	50	44	44	28	23	16
CFSM	.23	.40	.32	.25	2.07	1.09	.33	.85	.79	1.02	.22	.14
IN.	.26	.45	.37	.28	2.15	1.26	.37	.97	.89	1.18	.25	.15

CAL YR 1970 TOTAL 62,911 MEAN 172 MAX 3,300 MIN 19 CFSM .80 IN 10.92
WTR YR 1971 TOTAL 49,428 MEAN 135 MAX 2,090 MIN 16 CFSM .63 IN 8.59

PEAK DISCHARGE (BASE, 2,600 CFS).--Feb. 4 (2215) 3,920 cfs (11.15 ft). July 7 (1345) 3,190 cfs (10.13 ft).

NOTE.--No gage-height record Oct. 17 to Nov. 16.

03339150 Little Vermilion River near Newport, Ind.

LOCATION.--Lat 39°53'32", long 87°25'42", in SW¼NW¼ sec.27, T.17 N., R.9 W., Vermillion County, on downstream side of bridge on State Highway 63, 1.2 miles northwest of Newport, and 6 miles upstream from mouth.

DRAINAGE AREA.--240 sq mi.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 489.78 ft above mean sea level (Indiana State Highway Commission bench mark, levels by Corps of Engineers). Prior to Nov. 6, 1969, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--7 years, 184 cfs (10.41 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,990 cfs Feb. 22 (gage height, 8.78 ft); minimum daily, 1.6 cfs Oct. 7.
Period of record: Maximum discharge, 6,520 cfs Dec. 8, 1966 (gage height, 11.54 ft); no flow Oct. 3-6, 1964.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.9	30	39	25	16	348	87	37	98	29	74	9.7
2	4.0	29	39	26	16	290	98	37	114	27	55	9.7
3	3.4	33	34	28	15	247	83	37	153	24	48	9.7
4	2.4	34	34	100	140	206	77	35	101	20	43	9.7
5	2.0	33	32	117	1,000	172	72	36	82	43	37	8.5
6	1.8	30	30	90	867	234	69	53	72	71	32	10
7	1.6	26	26	70	350	352	67	87	66	48	29	10
8	4.6	25	25	60	220	300	64	142	59	46	27	8.5
9	7.9	21	23	53	160	235	60	186	54	338	28	5.5
10	12	26	25	71	120	216	58	134	51	269	31	5.5
11	8.8	27	26	55	80	216	54	113	52	678	48	9.1
12	7.6	26	30	52	60	212	52	240	72	352	36	10
13	7.9	25	30	49	52	223	56	466	55	220	26	8.8
14	8.5	25	29	46	47	235	62	316	132	158	21	5.5
15	16	26	26	40	42	292	56	219	496	184	21	3.8
16	11	26	28	35	45	352	52	168	254	134	19	4.0
17	15	24	34	30	114	298	51	140	151	93	17	3.8
18	17	18	35	27	350	244	52	118	100	73	15	3.6
19	12	18	35	25	670	247	53	102	74	314	14	4.3
20	17	33	33	24	963	240	55	90	60	332	13	17
21	26	38	31	23	538	206	55	77	60	206	13	14
22	27	32	39	22	1,510	191	54	69	54	122	13	9.7
23	24	30	44	23	1,450	168	50	68	48	83	13	6.7
24	20	29	42	23	620	147	47	244	42	89	13	5.5
25	16	26	38	23	464	136	45	456	61	70	29	34
26	13	21	35	21	504	128	42	267	74	71	25	52
27	12	23	32	19	620	119	41	205	52	51	17	26
28	18	28	29	17	488	114	46	158	38	125	12	18
29	40	30	27	17	-----	111	46	130	32	223	10	13
30	39	36	25	17	-----	99	41	118	28	168	9.4	11
31	34	-----	24	16	-----	87	-----	104	-----	113	9.4	-----
TOTAL	434.4	828	979	1,244	11,561	6,665	1,745	4,652	2,785	4,774	797.8	346.6
MEAN	14.0	27.6	31.6	40.1	413	215	58.2	150	92.8	154	25.7	11.6
MAX	40	38	44	117	1,510	352	98	466	496	678	74	52
MIN	1.6	18	23	16	15	87	41	35	28	20	9.4	3.6
CFSM	.06	.12	.13	.17	1.72	.90	.24	.63	.39	.64	.11	.05
IN.	.07	.13	.15	.19	1.79	1.03	.27	.72	.43	.74	.12	.05

CAL YR 1970 TOTAL 52,390.4 MEAN 144 MAX 3,040 MIN 1.6 CFSM .60 IN 8.12
WTR YR 1971 TOTAL 36,811.8 MEAN 101 MAX 1,510 MIN 1.6 CFSM .42 IN 5.71

PEAK DISCHARGE (BASE, 2,000 CFS).--No peak above base.

03339500 Sugar Creek at Crawfordsville, Ind.

LOCATION.--Lat 40°02'56", long 86°53'58", in SW¼NW¼ sec.32, T.19 N., R.4 W., Montgomery County, on left bank 327 ft upstream from Crawfordsville Electric Light and Power Co.'s dam at Crawfordsville, 0.5 mile upstream from bridge on State Highway 43, and 1 mile downstream from Walnut Fork Sugar Creek.

DRAINAGE AREA.--509 sq mi.

PERIOD OF RECORD.--June 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 657.77 ft above mean sea level.

AVERAGE DISCHARGE.--33 years, 461 cfs (12.30 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,440 cfs Feb. 20 (gage height, 5.49 ft); minimum daily, 19 cfs Sept. 17, 18.
Period of record: Maximum discharge, 26,300 cfs June 28, 1957 (gage height, 14.48 ft); minimum daily, 2.4 cfs Sept. 24-27, 1941.
Flood in March 1913 reached a stage of 17.3 ft from information by local resident (discharge, about 36,000 cfs).

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 973: 1939(M). WSP 1275: Drainage area. WSP 1335: 1949.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	157	244	340	130	74	990	228	98	228	100	80	25
2	131	232	305	135	70	751	248	89	240	90	72	25
3	107	588	264	150	60	566	236	92	1,330	84	65	23
4	93	676	256	572	1,300	406	224	79	907	82	57	28
5	83	464	228	604	4,100	343	208	79	492	80	48	32
6	77	356	196	240	1,250	568	196	108	340	80	45	30
7	73	295	184	200	480	1,470	196	180	272	80	44	30
8	73	253	176	210	280	852	184	281	802	90	39	30
9	87	229	180	205	160	562	180	306	599	530	34	28
10	175	230	172	200	140	485	168	242	332	484	37	32
11	235	240	168	150	150	521	156	205	520	810	76	32
12	191	229	176	170	170	526	152	333	3,540	428	158	32
13	172	221	176	166	130	1,170	160	281	2,940	240	91	30
14	221	202	168	155	110	1,260	172	224	2,020	175	61	25
15	707	196	164	145	105	1,650	160	189	995	139	241	21
16	474	186	172	100	141	1,900	152	168	588	123	255	21
17	310	176	156	110	822	1,130	148	158	398	117	125	19
18	248	171	156	100	2,980	811	144	154	310	110	73	19
19	208	174	156	95	4,310	812	133	143	812	109	54	21
20	188	475	188	90	4,830	925	129	129	484	103	41	65
21	184	1,070	184	50	2,250	838	129	121	548	95	37	152
22	176	660	204	110	3,890	686	129	115	340	87	35	95
23	164	433	256	106	3,190	521	126	109	250	80	32	65
24	148	301	335	102	1,320	407	118	1,030	210	80	30	51
25	140	290	284	98	1,140	344	115	2,720	270	113	79	57
26	133	258	208	94	1,710	317	111	1,860	200	99	51	136
27	122	244	170	74	2,620	297	111	912	160	89	39	168
28	126	227	160	77	1,550	289	115	553	130	99	32	126
29	236	228	150	80	-----	271	115	390	120	108	28	85
30	368	315	140	80	-----	248	108	305	110	96	25	70
31	305	-----	135	74	-----	224	-----	257	-----	88	25	-----
TOTAL	6,112	5,864	6,367	4,952	39,322	22,140	4,751	11,900	20,487	5,088	2,109	1,573
MEAN	197	329	205	160	1,404	714	158	384	693	164	68.0	52.4
MAX	707	1,070	340	604	4,830	1,900	248	2,720	3,540	810	255	168
MIN	73	171	135	74	60	224	108	79	110	80	25	19
CFSM	.39	.65	.40	.31	2.76	1.40	.31	.75	1.34	.32	.13	.10
IN.	.45	.72	.47	.36	2.87	1.62	.35	.87	1.50	.37	.15	.11

CAL YR 1970 TOTAL 153,723 MEAN 421 MAX 5,090 MIN 22 CFSM .83 IN 11.23
WTR YR 1971 TOTAL 134,665 MEAN 369 MAX 4,830 MIN 19 CFSM .73 IN 9.84

PEAK DISCHARGE (BASE, 4,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	2000	5.48	5,420	05-24	2300	4.99	4,790
02-20	0400	5.49	5,440	06-12	2400	4.87	4,620
02-22	1600	5.24	5,110				

03340000 Sugar Creek near Byron, Ind.

LOCATION.--Lat 39°55'52", long 87°07'33", in NW¼SW¼ sec. 8, T. 17 N., R. 6 W., Parke County, on right bank 30 ft upstream from county highway bridge, 2.5 miles northwest of Byron, and 5 miles downstream from Indian Creek.

DRAINAGE AREA.--670 sq mi.

PERIOD OF RECORD.--October 1940 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 538.92 ft above mean sea level (levels by Corps of Engineers). Prior to Nov. 18, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--31 years, 628 cfs (12.77 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,840 cfs June 12 (gage height, 11.23 ft); minimum daily, 37 cfs Sept. 18.
Period of record: Maximum discharge, 32,200 cfs June 28, 1957 (gage height, 22.98 ft); minimum daily, 12 cfs Sept. 21, 1941.

REMARKS.--Records good except those for parts of December and January and for period of no gage-height record, which are fair.

REVISIONS (WATER YEARS).--WSP 1335: 1944. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	207	330	460	190	100	1,400	301	143	302	136	100	57
2	172	320	410	196	95	1,050	328	137	307	124	88	59
3	143	800	360	200	90	811	309	135	1,250	114	82	53
4	124	900	350	728	2,100	603	290	133	1,330	107	79	50
5	113	600	310	879	5,820	493	268	135	716	106	77	52
6	106	450	270	330	2,120	753	253	173	476	107	75	54
7	98	410	246	280	745	1,900	248	243	357	107	75	59
8	121	360	244	290	442	1,360	240	411	617	111	68	53
9	168	320	240	280	202	857	229	448	868	2,540	63	52
10	232	320	235	270	180	712	219	355	465	863	63	50
11	280	330	231	260	190	750	206	286	355	1,630	157	59
12	270	320	239	230	220	749	198	480	5,210	899	158	57
13	234	310	241	220	180	1,300	204	444	5,290	455	151	52
14	252	280	232	210	160	1,680	220	328	2,650	279	155	49
15	718	270	224	200	140	2,020	212	269	1,520	210	558	44
16	740	260	233	140	170	2,450	199	244	885	168	456	41
17	462	250	259	150	1,060	1,600	193	229	599	144	209	39
18	341	240	269	140	3,580	1,120	191	213	419	126	131	37
19	277	240	262	130	5,590	1,110	179	209	747	674	98	38
20	252	600	257	120	6,370	1,280	169	186	805	227	80	130
21	243	1,500	252	122	3,180	1,240	167	168	692	147	73	156
22	232	1,000	284	150	5,250	1,060	172	149	539	111	68	139
23	216	600	379	145	4,550	903	168	137	334	99	64	103
24	201	420	481	140	1,860	622	161	756	266	113	60	80
25	187	390	407	135	1,580	517	156	4,100	356	131	570	101
26	177	360	313	130	2,010	459	149	2,550	287	124	197	223
27	169	340	260	100	3,250	424	146	1,380	209	107	100	232
28	200	320	230	105	2,140	398	160	837	175	222	78	193
29	340	310	210	110	-----	375	159	586	160	272	66	138
30	500	430	200	110	-----	328	151	434	134	162	60	103
31	410	-----	156	100	-----	298	-----	348	-----	120	55	-----
TOTAL	8,185	13,580	8,784	6,790	53,374	30,522	6,245	16,646	28,320	10,735	4,314	2,554
MEAN	264	453	283	219	1,906	985	208	537	944	346	139	85.1
MAX	740	1,500	481	875	6,370	2,450	328	4,100	5,290	2,540	570	232
MIN	58	240	196	100	90	298	146	133	134	95	55	37
CFSM	.39	.68	.42	.33	2.84	1.47	.31	.80	1.41	.52	.21	.13
IN.	.45	.75	.45	.38	2.96	1.69	.35	.92	1.57	.60	.24	.14

CAL YR 1970 TOTAL 207,410 MEAN 568 MAX 7,150 MIN 42 CFSM .85 IN 11.52
WTR YR 1971 TOTAL 190,049 MEAN 521 MAX 6,370 MIN 37 CFSM .78 IN 10.55

PEAK DISCHARGE (BASE, 6,500 CFS)

NOTE.--No gage-height record Oct. 27 to Dec. 7.

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	1700	10.47	7,700	02-22	1900	9.74	6,660
02-20	0300	10.07	7,100	06-12	2400	11.23	8,840

WABASH RIVER BASIN

03340500 Wabash River at Montezuma, Ind.

LOCATION.--Lat 39°47'33", long 87°22'26", in SE¼NE¼ sec.35, T.16 N., R.9 W., Parke County, in downstream side of first pier from left bank of bridge on U.S. Highway 36 at Montezuma, 2.0 miles upstream from Raccoon Creek, 4.9 miles downstream from Sugar Creek, and at mile 240.

DRAINAGE AREA.--11,100 sq mi, approximately.

PERIOD OF RECORD.--October 1927 to current year. July 1924 to September 1927 (gage heights only) in reports of Indiana Department of Conservation.

GAGE.--Water-stage recorder. Datum of gage is 457.75 ft above mean sea level (levels by Corps of Engineers). Oct. 1, 1927, to July 12, 1950, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--44 years, 9,270 cfs (11.34 inches per year).

EXTREMES.--Current year: Maximum discharge, 40,500 cfs Feb. 23 (gage height, 20.51 ft); minimum daily, 1,450 cfs Sept. 4. Period of record: Maximum discharge, 184,000 cfs May 20, 1943 (gage height, 32.83 ft); minimum daily, 571 cfs Sept. 24, 1941.

Flood of Mar. 27, 1913, reached a stage of 34.0 ft, from floodmarks (discharge, 230,000 cfs).

REMARKS.--Records good. Daily flow is affected at times by the operation of several reservoirs and powerplants.

REVISIONS (WATER YEARS).--WSP 1335: 1929, 1931(M), drainage area. WSP 1505: 1954. WSP 1915: 1954(m).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,470	7,080	10,400	4,300	2,350	31,300	7,720	3,410	5,540	3,430	3,080	1,630
2	5,840	6,830	12,000	4,200	2,350	30,600	7,590	3,070	4,930	3,780	2,690	1,620
3	5,070	6,570	11,300	4,220	2,500	28,900	7,590	3,180	6,010	3,640	2,470	1,660
4	4,690	7,370	9,240	4,940	3,500	26,400	7,690	2,910	12,600	3,330	2,360	1,450
5	4,370	9,000	8,100	5,920	19,700	22,400	7,590	3,090	11,800	3,220	2,260	1,710
6	4,000	9,160	7,330	5,040	27,400	18,600	7,090	3,340	9,320	4,800	2,210	3,190
7	3,880	8,530	6,610	3,340	27,500	17,900	6,640	4,110	8,000	5,600	2,120	3,520
8	3,980	7,580	5,900	2,510	25,400	17,000	6,340	5,280	8,360	4,370	2,040	4,370
9	4,370	7,080	5,660	3,190	18,700	15,000	5,910	7,220	13,300	7,090	2,020	5,810
10	4,790	6,580	5,360	4,300	15,400	13,500	5,690	8,290	12,300	11,700	1,940	5,290
11	5,320	6,310	5,280	4,950	15,200	11,900	5,370	8,280	9,210	12,700	2,180	4,850
12	5,860	6,170	5,170	4,980	12,900	11,100	5,130	9,640	11,500	13,700	2,390	4,040
13	5,550	6,080	5,140	4,650	9,430	11,100	5,000	12,000	19,400	12,100	2,360	3,620
14	6,060	6,170	4,990	4,340	7,490	14,000	4,950	10,800	18,100	9,610	2,310	3,200
15	6,800	5,810	4,850	4,100	6,880	19,800	5,000	8,470	13,800	8,890	3,730	2,690
16	8,580	5,580	5,090	3,700	6,170	25,300	4,710	6,980	9,590	7,500	3,240	2,420
17	9,390	5,430	5,360	3,400	6,580	27,400	4,740	6,270	7,090	6,140	3,030	2,100
18	8,870	5,320	5,350	3,100	12,100	27,800	4,580	5,510	5,830	5,190	2,450	1,940
19	7,870	5,230	5,330	2,900	21,700	26,400	4,540	5,070	5,060	6,490	2,120	2,200
20	7,110	5,340	5,030	2,800	31,200	22,000	4,270	4,700	5,490	6,990	1,910	2,450
21	6,210	6,480	5,150	2,900	32,200	19,100	3,990	4,440	5,600	5,480	1,710	3,030
22	5,910	7,840	5,480	3,000	36,000	17,800	3,940	3,970	6,090	4,200	1,710	3,590
23	5,760	9,010	5,920	3,300	40,200	16,300	3,960	3,780	6,260	3,560	1,720	3,670
24	5,570	8,560	5,790	3,400	38,500	14,500	3,850	4,070	5,090	3,680	1,750	3,730
25	5,270	7,280	5,450	3,400	36,200	12,600	3,640	11,600	4,530	3,490	2,210	3,730
26	5,090	6,620	4,880	3,260	34,400	11,200	3,690	11,000	4,850	3,640	2,870	3,960
27	4,900	6,310	4,700	2,500	33,700	10,200	3,420	12,600	4,390	3,360	2,610	4,240
28	4,780	6,300	4,600	2,400	32,600	9,470	3,560	11,100	3,810	3,170	2,660	5,250
29	4,910	6,200	4,400	2,300	-----	8,980	3,410	8,930	3,560	3,700	2,240	7,020
30	5,650	7,390	4,400	2,400	-----	8,430	3,530	7,170	3,360	3,560	1,890	7,210
31	6,590	-----	4,300	2,400	-----	8,310	-----	6,490	-----	3,540	1,750	-----
TOTAL	179,840	205,210	188,640	112,140	558,250	555,190	155,130	206,770	244,680	181,650	72,030	105,150
MEAN	5,801	6,840	6,085	3,617	19,940	17,910	5,171	6,670	8,156	5,860	2,324	3,505
MAX	9,390	9,160	12,000	5,920	40,200	31,300	7,720	12,600	19,400	13,700	3,730	7,210
MIN	3,880	5,230	4,300	2,300	2,350	8,310	3,410	2,910	3,360	3,170	1,710	1,450
CFSM	.52	.62	.55	.33	1.80	1.61	.47	.60	.73	.53	.21	.32
IN.	.60	.69	.63	.38	1.87	1.86	.52	.69	.82	.61	.24	.35
CAL YR 1970	TOTAL 3,439,610	MEAN 9,424	MAX 61,600	MIN 1,820	CFSM .85	IN 11.53						
WTR YR 1971	TOTAL 2,764,680	MEAN 7,574	MAX 40,200	MIN 1,450	CFSM .68	IN 9.27						

03340800 Big Raccoon Creek near Fincastle, Ind.

LOCATION.--Lat 39°48'45", long 86°57'14", in NW 1/4 sec. 22, T. 16 N., R. 5 W., Putnam County, on left bank at downstream side of county road bridge, 1.6 miles upstream from Ramp Creek, and 3.1 miles west of Fincastle.

DRAINAGE AREA.--132 sq mi.

PERIOD OF RECORD.--August 1957 to current year. Prior to October 1963, published as Raccoon Creek near Fincastle.

GAGE.--Water-stage recorder. Datum of gage is 686.03 ft above mean sea level.

AVERAGE DISCHARGE.--14 years, 124 cfs (12.76 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,840 cfs June 12 (gage height, 11.66 ft); minimum daily, 5.5 cfs Oct. 7.
 Period of record: Maximum discharge, 15,100 cfs Jan. 26, 1962; maximum gage height, 15.68 ft Jan. 26, 1962 (ice jam); minimum daily discharge, 1.8 cfs Sept. 16, 17 and Oct. 5, 6, 1964.
 Flood of June 28, 1957 reached a stage of 19.10 ft, discharge, 39,900 cfs from slope-area measurement.

REMARKS.--Records good. Records of water temperature and suspended sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1909: 1958.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.7	26	27	25	12	198	71	23	53	27	34	13
2	7.8	24	27	24	11	161	82	22	108	23	26	12
3	7.0	42	26	25	12	130	75	21	323	21	22	11
4	6.5	70	23	82	600	100	68	21	141	19	20	11
5	6.0	57	23	100	1,610	90	62	20	92	20	18	11
6	6.0	45	21	80	210	133	60	51	69	20	17	11
7	5.5	36	19	50	120	351	57	68	57	19	15	12
8	6.3	29	18	43	82	216	55	137	80	17	14	13
9	9.9	25	18	39	50	155	52	83	93	150	14	11
10	14	25	18	37	38	145	49	59	57	99	14	10
11	14	27	19	35	40	160	45	51	69	418	97	9.6
12	15	32	20	30	44	155	44	73	2,570	168	73	9.3
13	14	25	22	27	37	205	45	69	657	85	32	9.0
14	14	26	21	29	30	203	47	55	480	60	20	8.7
15	15	23	19	26	28	387	43	46	264	42	117	8.1
16	21	22	20	22	27	383	40	41	161	37	79	8.1
17	18	20	25	20	486	231	39	68	114	29	40	7.5
18	15	20	36	18	1,120	174	37	46	86	23	24	7.3
19	13	19	37	16	1,270	183	33	38	82	462	18	7.5
20	14	37	31	15	1,540	200	31	33	149	119	15	103
21	14	122	30	14	348	217	30	29	204	56	14	131
22	13	88	41	14	2,090	226	29	25	120	38	13	54
23	13	62	70	15	640	167	27	23	74	29	14	33
24	12	45	66	15	270	134	25	43	57	97	13	22
25	12	45	55	15	256	116	25	549	75	77	171	28
26	11	37	48	15	409	104	23	236	108	47	85	103
27	11	37	40	13	557	97	24	141	57	37	35	116
28	12	33	35	12	289	93	41	97	43	53	22	56
29	16	29	30	13	-----	86	32	74	34	162	17	47
30	39	26	28	13	-----	75	26	61	29	73	15	36
31	37	-----	26	12	-----	70	-----	53	-----	47	13	-----
TOTAL	420.7	1,158	941	894	12,226	5,345	1,317	2,356	6,506	2,574	1,121	922.1
MEAN	13.6	38.6	30.4	28.8	437	172	43.9	76.0	217	83.0	36.2	30.7
MAX	39	122	70	100	2,090	387	82	549	2,570	462	171	131
MIN	5.5	19	18	12	11	70	23	20	29	17	13	7.3
CFSM	.10	.29	.23	.22	3.31	1.30	.33	.58	1.64	.63	.27	.23
IN.	.12	.33	.27	.25	3.45	1.51	.37	.66	1.83	.73	.32	.26

CAL YR 1970 TOTAL 33,741.9 MEAN 92.4 MAX 1,580 MIN 5.0 CFSM .70 IN 9.51
 WTR YR 1971 TOTAL 35,780.8 MEAN 98.0 MAX 2,570 MIN 5.5 CFSM .74 IN 10.08

PEAK DISCHARGE (BASE, 1,900 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0400	9.38	2,370	02-22	1645	10.31	2,840
02-20	0415	9.11	2,240	06-12	1230	11.66	3,840

WABASH RIVER BASIN

03340870 Mansfield Lake at Ferndale, Ind.
(Formerly published as Mansfield Reservoir at Ferndale, Ind.)

LOCATION.--Lat 39°43'02", long 87°04'20", in SE¼NE¼ sec.28, T.15 N., R.6 W., Parke County, in discharge tower of reservoir on Big Raccoon Creek at Ferndale, 4.4 miles upstream from Rocky Fork Creek, and 6.1 miles northeast of Mansfield.

DRAINAGE AREA.--208 sq mi.

PERIOD OF RECORD.--December 1960 to current year.

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 51,350 acre-ft July 30 (elevation, 662.00 ft); minimum, 16,180 acre-ft Dec. 3 (elevation, 640.00 ft).
Period of record: Maximum contents, 87,510 acre-ft May 4, 1964 (elevation, 676.52 ft); minimum, 16,080 acre-ft many times (elevation, 639.9 ft).

REMARKS.--Reservoir is formed by earth fill dam. Releases normally controlled by three gates, 4 ft wide and 8 ft high, in semi-elliptical concrete conduit through dam. Minimum design capacity is 16,180 acre-ft (elevation, 640 ft). Seasonal pool capacity is 49,300 acre-ft (elevation, 661 ft). Capacity at uncontrolled spillway elevation (690 ft) is 133,000 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on Dec. 6, 1960.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	655.62	38,870	-
Oct. 31.....	648.90	27,770	-11,100
Nov. 30.....	640.10	16,300	-11,470
Dec. 31.....	640.13	16,330	+30
Calendar year 1970	-	-	-20
Jan. 31.....	640.09	16,280	-50
Feb. 28.....	656.58	40,600	+24,320
Mar. 31.....	640.19	16,390	-24,210
Apr. 30.....	642.56	19,140	+2,750
May 31.....	648.37	26,980	+7,840
June 30.....	657.20	41,780	+14,800
July 31.....	661.75	50,820	+9,040
Aug. 31.....	660.90	49,040	-1,780
Sept. 30.....	655.84	39,270	-9,770
Water year 1971	-	-	+400

03340900 Big Raccoon Creek at Ferndale, Ind.

LOCATION.--Lat 39°41'44", long 87°05'01", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.33, T.15 N., R.6 W., Parke County, on right bank 1.1 miles southwest of Ferndale, 1.8 miles northeast of Mansfield, 2.0 miles upstream from Rocky Fork Creek, and 2.1 miles downstream from Mansfield Reservoir dam.

DRAINAGE AREA.--215 sq mi.

PERIOD OF RECORD.--October 1956 to current year. Prior to October 1963, published as Raccoon Creek at Ferndale.

GAGE.--Water-stage recorder. Datum of gage is 582.36 ft above mean sea level (Corps of Engineers bench mark).

AVERAGE DISCHARGE.--15 years, 207 cfs (13.07 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,740 cfs Mar. 3 (gage height, 7.35 ft); minimum daily, 18 cfs Jan. 28 to Feb. 3. Period of record: Maximum discharge, 40,500 cfs June 28, 1957 (gage height, 19.87 ft) from rating curve extended above 5,000 cfs on basis of records for station at Mansfield; minimum daily, 2.7 cfs Oct. 11, 1956.

REMARKS.--Records good. Flow regulated since October 1960 by Mansfield Reservoir (see sta 03340870).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	201	208	77	55	18	803	36	20	27	26	312	44
2	201	210	69	55	18	1,580	36	20	43	26	296	43
3	199	264	58	58	18	1,650	35	20	37	25	201	43
4	199	316	47	141	113	1,770	34	20	27	25	107	43
5	198	314	41	142	104	1,660	28	21	26	30	58	43
6	196	312	36	98	88	1,040	21	26	25	26	41	50
7	196	284	35	69	89	1,110	20	37	24	25	33	129
8	199	240	35	54	88	1,600	19	31	25	25	32	199
9	217	260	35	53	623	1,600	19	25	24	53	33	201
10	226	260	35	53	1,220	988	15	24	24	36	33	224
11	224	258	35	53	1,170	342	19	24	26	36	110	240
12	235	256	36	53	838	258	19	34	31	26	107	240
13	242	233	36	53	233	272	20	26	46	24	107	238
14	306	222	35	53	101	272	20	24	36	24	112	238
15	356	220	36	53	88	308	19	23	29	23	112	237
16	308	208	62	52	64	461	19	23	29	23	109	237
17	238	199	83	52	89	446	19	23	27	24	107	237
18	237	198	74	47	362	298	19	22	26	24	107	235
19	237	196	62	38	548	266	19	22	28	49	62	237
20	237	201	52	33	134	266	19	22	32	24	44	260
21	235	266	51	32	118	264	19	22	51	24	43	237
22	233	300	73	32	222	302	19	22	30	23	44	274
23	233	300	110	32	128	251	19	22	28	23	43	306
24	233	298	133	32	125	203	19	69	27	152	40	306
25	210	296	106	32	122	169	19	44	42	110	58	320
26	196	294	60	32	141	136	19	30	29	109	107	308
27	196	292	46	30	137	120	20	27	28	107	107	364
28	199	292	56	18	125	118	20	25	27	123	107	521
29	198	290	56	18	-----	118	20	25	26	147	107	584
30	194	157	56	18	-----	118	20	24	26	191	85	581
31	203	-----	56	18	-----	61	-----	24	-----	294	43	-----
TOTAL	6,982	7,664	1,783	1,559	7,125	18,782	653	821	905	1,877	2,907	7,220
MEAN	225	255	57.5	50.3	254	606	21.8	26.5	30.2	60.5	93.8	241
MAX	356	316	133	142	1,220	1,700	36	69	51	294	312	584
MIN	194	157	35	18	18	61	19	20	24	23	32	43
CFSM	1.05	1.19	.27	.23	1.18	2.82	.10	.12	.14	.28	.44	1.12
IN.	1.21	1.33	.31	.27	1.23	3.25	.11	.14	.16	.32	.50	1.25
CAL YR 1970	TOTAL 54,570	MEAN 150	MAX 434	MIN 18	CFSM .70	IN 9.44						
WTR YR 1971	TOTAL 58,278	MEAN 160	MAX 1,700	MIN 18	CFSM .74	IN 10.08						

WABASH RIVER BASIN

03341200 Little Raccoon Creek near Catlin, Ind.

LOCATION.--Lat 39°40'38", long 87°13'38", in NE¼NW¼ sec.7, T.14 N., R.7 W., Parke County, on left bank at downstream side of county road bridge, 300 ft downstream from small left-bank tributary, 0.4 mile upstream from Sunderland Branch, 1.2 miles southeast of Catlin, 2.4 miles upstream from Weisner Creek, and 3.8 miles upstream from mouth.

DRAINAGE AREA.--133 sq mi.

PERIOD OF RECORD.--December 1956 to September 1957 (fragmentary), October 1957 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 515.56 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--14 years (1957-71), 117 cfs (11.95 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,630 cfs Feb. 22 (gage height, 11.37 ft); minimum daily, 9.1 cfs Oct. 7.
Period of record: Maximum discharge, 53,400 cfs June 28, 1957 (gage height, 18.27 ft), from rating curve extended above 6,000 cfs on basis of combination contracted-opening, culvert, and flow-over-road measurement of peak flow, at site 8.5 miles upstream, adjusted to drainage area at gage; minimum daily, 4.1 cfs Dec. 22, 1963.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	26	43	33	20	239	86	32	45	30	70	37
2	13	31	42	35	20	203	100	31	110	27	52	37
3	12	48	39	39	20	176	84	30	179	25	53	31
4	11	50	37	114	1,030	150	78	29	100	23	51	20
5	9.7	41	35	79	877	142	75	29	77	31	46	27
6	9.4	35	33	66	282	180	73	53	62	27	43	27
7	9.1	32	30	56	165	246	67	163	56	23	40	37
8	19	27	31	50	120	190	66	277	52	21	37	27
9	50	29	30	46	90	161	61	152	43	320	72	25
10	47	39	30	44	80	164	57	108	38	276	70	23
11	28	36	31	43	85	160	53	93	37	590	313	23
12	24	34	33	42	80	161	52	185	103	306	95	22
13	24	32	34	38	70	161	53	115	147	179	57	21
14	20	30	32	41	66	156	55	87	212	125	46	19
15	26	31	30	37	62	255	51	70	138	94	547	10
16	22	29	41	33	60	234	49	63	79	41	123	17
17	19	27	54	39	668	180	47	63	60	66	80	17
18	18	27	48	29	655	158	45	57	51	63	60	16
19	17	26	45	28	725	176	43	52	46	468	57	17
20	19	101	40	27	708	179	41	47	93	183	44	80
21	19	112	44	27	350	176	40	43	250	100	40	43
22	17	87	77	27	1,730	163	32	39	108	73	32	43
23	16	65	89	27	623	146	37	38	67	60	37	34
24	15	54	69	27	396	128	36	104	53	589	34	20
25	15	58	62	26	304	117	35	195	133	224	90	48
26	14	49	55	25	360	112	33	122	72	123	107	121
27	13	48	48	23	510	107	34	88	48	47	60	74
28	17	46	44	22	311	102	41	71	39	147	46	57
29	14	44	40	22	-----	74	35	61	34	226	33	45
30	12	45	37	21	-----	46	33	54	31	131	34	40
31	20	-----	35	21	-----	80	-----	49	-----	03	31	-----
TOTAL	582.2	1,341	1,337	1,178	10,437	4,967	1,601	2,000	2,599	4,833	2,510	1,111
MEAN	21.0	44.7	43.1	39.0	373	161	53.4	83.0	85.6	156	91.0	37.0
MAX	50	112	89	114	1,730	255	100	277	253	590	540	121
MIN	9.1	25	30	21	20	80	33	20	31	21	31	14
CFS/M	.16	.34	.32	.29	2.40	1.21	.40	.63	.65	1.17	.61	.24
IN.	.14	.33	.37	.33	2.42	1.30	.45	.73	.73	1.35	.77	.31

CAL YR 1970 TOTAL 32,413.1 MEAN 89.5 MAX 1,560 MIN 6.4 CFS/M .62 IN 2.12
WTR YR 1971 TOTAL 35,146.2 MEAN 96.4 MAX 1,780 MIN 6.1 CFS/M .72 IN 2.24

PEAK DISCHARGE (BASE, 1,900 CFS).--Feb. 4 (1930) 2,040 cfs (9.84 ft). Feb. 22 (1930) 2,630 cfs (11.37 ft).

03341300 Big Raccoon Creek at Coxville, Ind.

LOCATION.--Lat 39°39'09", long 87°17'37", In SW¼SW¼ sec.15, T.14 N., R.8 W., Parke County, on right bank at downstream side of covered bridge on county road at Coxville, 0.8 mile upstream from Rock Run, 1.5 miles downstream from Little Raccoon Creek, and 2.1 miles northwest of Rosedale.

DRAINAGE AREA.--440 sq mi.

PERIOD OF RECORD.--October 1956 to current year. Prior to October 1963, published as Raccoon Creek at Coxville.

GAGE.--Water-stage recorder. Datum of gage is 494.00 ft above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

AVERAGE DISCHARGE.--15 years, 438 cfs (13.52 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,750 cfs Feb. 22 (gage height, 13.10 ft); minimum daily, 68 cfs Feb. 3.
Period of record: Maximum discharge, 108,000 cfs June 28, 1957 (gage height, 21.23 ft) from rating curve extended above 35,000 cfs on basis of an estimate made by a slope-area study; minimum daily, 6.5 cfs Oct. 10, 1956.

REMARKS.--Records good. Flow regulated by Mansfield Reservoir (see sta 03340870).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	247	277	222	120	70	657	236	97	160	101	418	101
2	245	288	188	122	69	1,690	263	95	258	95	403	103
3	240	331	175	127	68	1,830	231	93	665	90	342	94
4	239	413	150	289	600	1,830	213	92	304	86	258	90
5	236	408	137	305	1,970	1,880	204	92	226	112	186	85
6	235	400	123	248	546	1,740	190	125	186	102	146	86
7	233	389	114	220	362	1,270	178	243	162	86	126	122
8	256	345	113	190	296	1,880	169	572	208	82	113	196
9	335	346	109	165	348	1,930	160	291	143	490	141	204
10	350	360	107	149	1,160	1,770	151	215	126	453	180	212
11	296	353	106	130	1,120	864	143	187	118	749	668	244
12	293	349	109	128	1,080	648	139	495	234	485	288	246
13	311	338	109	127	542	637	140	295	230	298	222	246
14	338	311	105	135	322	615	147	218	854	224	199	248
15	421	307	102	125	263	806	137	180	503	178	836	246
16	416	300	119	115	235	841	131	160	262	156	300	246
17	317	282	192	105	887	865	128	159	202	141	240	246
18	304	277	176	98	1,330	663	124	141	168	139	212	244
19	300	274	158	94	1,880	626	119	127	150	675	189	246
20	307	397	138	90	1,650	624	115	118	254	332	136	430
21	305	410	140	90	682	603	114	110	443	204	126	344
22	298	451	205	90	4,290	599	112	105	256	158	129	306
23	292	421	244	88	1,220	570	108	102	180	134	113	346
24	289	394	249	89	761	479	106	310	148	1,120	106	347
25	282	405	220	98	644	421	104	1,050	395	515	170	405
26	254	403	197	85	818	389	101	368	240	384	224	543
27	249	402	149	80	1,040	346	102	268	156	302	184	445
28	258	396	142	77	661	334	111	216	129	418	166	530
29	301	391	144	74	-----	320	104	184	113	543	150	613
30	285	361	134	73	-----	305	99	162	105	376	143	613
31	272	-----	125	71	-----	289	-----	146	-----	398	109	-----
TOTAL	9,003	10,779	4,701	3,987	24,934	28,390	4,379	7,016	7,578	9,626	7,221	9,422
MEAN	290	359	152	129	891	916	146	226	253	311	233	281
MAX	421	451	249	305	4,290	1,930	263	1,050	854	1,120	936	613
MIN	233	274	102	71	68	289	99	92	105	82	106	85
CFSM	.66	.82	.35	.29	2.03	2.08	.33	.51	.58	.71	.53	.64
IN.	.76	.91	.40	.34	2.11	2.40	.37	.59	.64	.81	.61	.71
CAL YR 1970	TOTAL 121,476	MEAN 333	MAX 3,300	MIN 59	CFSM .76	IN 10.27						
WTH YR 1971	TOTAL 126,036	MEAN 345	MAX 4,290	MIN 68	CFSM .78	IN 10.66						

WABASH RIVER BASIN

03341420 Brouillets Creek near Universal, Ind.

LOCATION.--Lat 39°37'09", long 87°26'08", in NW¼NE¼ sec.32, T.14 N., R.9 W., Vermillion County, on downstream side of bridge on State Highway 63, 0.1 mile downstream from Gin Creek, and 0.7 mile east of Universal.

DRAINAGE AREA.--331 sq mi.

PERIOD OF RECORD.--July 1966 to September 1971 (discontinued).

GAGE.--Nonrecording gage. Datum of gage is 466.78 ft above mean sea level. Auxiliary nonrecording gage 2.0 miles downstream at datum 11.16 ft lower.

AVERAGE DISCHARGE.--5 years, 274 cfs (11.24 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,150 cfs Feb. 22 (gage height, 12.1 ft); minimum daily, 4.3 cfs Oct. 7.
Period of record: Maximum discharge, 13,600 cfs Dec. 8, 1966 (gage height, 17.08 ft, from floodmark); minimum daily, 1.2 cfs Aug. 7-9, 1966.

REMARKS.--Record fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	115	75	72	25	586	125	51	191	44	75	12
2	11	106	75	70	24	445	125	50	180	42	60	11
3	7.7	122	73	70	23	401	109	51	893	37	52	11
4	6.8	118	66	200	1,000	321	104	49	498	35	45	10
5	5.9	108	64	228	3,110	250	97	49	336	40	42	10
6	5.1	100	57	134	686	462	96	78	157	58	36	10
7	4.3	90	53	120	258	668	95	97	196	46	32	12
8	13	81	57	110	130	502	95	340	170	39	29	18
9	74	78	55	100	100	382	91	296	137	37	29	12
10	86	82	54	95	90	358	86	204	119	104	26	12
11	54	78	54	90	88	352	80	157	106	268	119	12
12	47	73	58	87	86	360	80	264	165	328	51	11
13	53	73	57	82	76	352	84	193	186	163	30	10
14	59	70	52	82	66	334	88	160	167	115	24	10
15	93	70	47	75	60	452	80	130	167	98	35	10
16	96	68	56	60	58	408	78	113	222	81	30	10
17	69	66	80	54	498	328	78	119	204	63	22	10
18	54	66	75	50	965	286	76	101	143	56	19	10
19	49	66	68	46	1,250	310	70	93	116	260	16	10
20	53	162	62	43	1,400	276	67	85	100	242	13	26
21	65	165	68	42	747	242	68	78	93	115	13	21
22	88	140	136	41	3,050	232	70	72	84	82	28	16
23	85	113	189	42	2,440	196	65	70	74	61	22	12
24	72	91	167	45	910	177	64	173	68	202	22	11
25	62	97	128	44	783	167	63	1,550	64	235	19	30
26	55	90	111	40	845	160	58	1,050	68	151	33	202
27	50	90	100	33	1,050	151	58	668	60	106	19	93
28	50	80	90	30	742	148	63	440	53	108	14	59
29	145	73	84	29	-----	140	60	362	47	302	13	45
30	182	72	80	29	-----	127	55	282	43	170	12	35
31	143	-----	75	30	-----	122	-----	236	-----	102	12	-----
TOTAL	1,904.8	2,803	2,466	2,273	20,644	9,735	2,428	7,701	5,107	3,790	990	761
MEAN	61.4	93.4	79.5	73.3	737	316	80.9	248	170	122	31.9	25.4
MAX	195	165	189	228	3,110	668	125	1,550	893	328	119	202
MIN	4.3	66	47	29	23	122	55	49	43	35	12	10
CFSM	.19	.28	.24	.22	2.23	.55	.24	.75	.51	.37	.10	.08
IN.	.21	.32	.28	.26	2.32	1.10	.27	.87	.57	.43	.11	.09

CAL YR 1970 TOTAL 74,172.7 MEAN 203 MAX 5,400 MIN 2.6 CFSM .61 IN 8.34
WTR YR 1971 TOTAL 60,652.8 MEAN 166 MAX 3,110 MIN 4.3 CFSM .50 IN 6.82

LOCATION. --Lat 39°28'00", long 87°25'08", in NE¼SW¼ sec.21, T.12 N., R.9 W., Vigo County, on left bank at upstream side of Wabash Avenue Bridge at Terre Haute, 2.2 miles upstream from Sugar Creek, 4 miles downstream from Lost Creek, and at mile 214.4.

PERIOD OF RECORD.--August 1902 to December 1903 (gage height only), February 1905 to July 1906, October 1927 to current year.
Gage-height records collected at site 3,300 ft upstream June 1891 to June 1897 and since December 1904 are contained in reports of U.S. Weather Bureau.

AVERAGE DISCHARGE. - ~~44~~ years, 10,225 cfs (11.38 inches per year).

EXTREMES.--Current year: Maximum discharge, 47,700 cfs Feb. 24 (gage height, 20.54 ft); minimum daily, 1,700 cfs Sept. 5.
Period of record: Maximum discharge, 189,000 cfs May 20, 1943 (gage height, 30.50 ft); minimum daily, 701 cfs Aug. 3, 1934.
Flood of Mar. 27, 1913, reached a stage of 31.1 ft (present site and datum), discharge, 245,000 cfs.

REMARKS.--Records good except those below 3,600 cfs, which are fair. Natural flow affected by upstream reservoirs.

REVISIONS (WATER YEARS).--WSP 205: 1905. WSP 1335: 1944.

JAY	JUL	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,310	7,350	4,900	5,000	2,750	39,400	9,190	3,790	6,670	3,740	3,740	2,000
2	7,050	7,570	11,200	4,950	2,750	36,400	8,810	3,700	5,900	3,910	3,500	1,900
3	7,120	7,250	12,100	4,900	2,900	35,300	8,410	3,700	6,970	4,020	3,200	1,800
4	7,810	7,470	10,000	5,300	3,500	32,500	8,670	3,650	17,300	3,800	3,350	1,800
5	5,260	6,710	9,300	6,540	10,000	28,700	4,720	3,640	13,300	3,680	2,500	1,700
6	5,050	7,620	4,740	6,220	25,200	23,700	8,310	3,840	10,900	4,190	2,750	2,500
7	4,750	5,350	7,450	4,500	27,000	21,600	7,440	4,440	9,080	5,610	2,600	3,710
8	4,900	8,500	6,770	3,000	27,500	20,400	7,300	5,600	9,140	5,130	2,500	3,960
9	5,130	7,900	6,300	3,000	23,400	18,400	7,320	6,090	11,800	5,400	2,350	5,630
10	5,530	7,500	6,040	4,300	17,700	16,500	6,550	9,400	13,600	10,500	2,400	5,610
11	5,840	7,000	5,900	5,370	15,600	14,400	6,230	8,500	11,000	12,500	2,600	5,230
12	6,300	6,910	5,750	5,540	15,500	13,300	5,910	10,300	10,800	14,100	3,100	4,660
13	6,550	6,720	5,750	5,500	12,200	12,700	5,010	12,100	16,900	13,300	2,900	4,150
14	5,600	6,400	5,600	5,110	9,100	13,300	5,930	12,100	19,600	11,200	2,900	3,740
15	6,700	6,540	5,500	4,800	4,020	18,100	5,510	9,440	16,500	9,370	3,700	3,500
16	4,020	6,310	5,550	4,400	7,420	23,500	5,310	7,440	12,100	8,580	4,240	3,250
17	7,570	6,170	5,950	3,700	7,420	27,000	5,190	6,900	8,710	7,040	3,670	2,800
18	7,500	6,030	6,010	3,000	12,000	26,500	5,080	6,300	6,350	6,010	3,100	2,600
19	6,050	5,930	5,010	3,400	14,100	25,100	5,310	5,720	5,930	6,030	2,850	2,800
20	4,170	6,140	5,700	5,300	24,500	26,400	4,330	5,370	5,330	8,090	2,600	3,300
21	7,330	6,050	5,710	3,400	32,900	22,400	4,530	5,010	6,120	6,570	2,400	3,500
22	6,740	7,770	6,080	5,710	35,500	20,300	4,340	4,710	6,980	5,210	2,200	3,780
23	6,020	8,500	6,040	3,400	40,000	18,000	4,410	4,300	6,730	4,260	2,100	4,010
24	6,350	7,500	6,640	3,400	47,400	16,400	4,360	4,500	6,310	4,300	2,050	4,030
25	6,140	9,350	6,550	4,050	45,500	14,800	4,170	11,500	5,110	4,900	2,000	4,090
26	5,450	7,470	5,740	3,380	43,400	13,200	4,120	12,400	5,270	4,350	3,000	4,540
27	5,050	7,700	5,400	2,440	42,200	11,700	4,350	13,400	5,020	4,170	2,800	4,590
28	5,530	6,940	5,200	2,750	40,400	11,000	3,940	12,800	4,410	3,880	2,700	5,020
29	5,670	6,240	5,110	2,700	-----	10,400	4,010	10,700	3,920	4,600	2,600	6,570
30	6,070	7,210	5,100	2,400	-----	9,300	3,320	8,540	3,410	4,330</		

03342000 Wabash River at Riverton, Ind.

LOCATION.--Lat 39°01'13", long 87°34'07", in NE¼SW¼ sec.30, T.7 N., R.10 W., Sullivan County, on left bank at downstream side of Illinois Central Railroad bridge at Riverton, 0.6 mile downstream from Turtle Creek, and at mile 162.0.

DRAINAGE AREA.--13,100 sq mi, approximately.

PERIOD OF RECORD.--October 1938 to current year. Prior to April 1939 monthly discharge only, published in WSP 1305. June 1911 to December 1914 (gage heights only) available in the Corps of Engineers office, Louisville, Ky.

GAGE.--Water-stage recorder. Datum of gage is 414.65 ft above mean sea level. Prior to July 17, 1951, nonrecording gage at same site and datum, read twice daily.

AVERAGE DISCHARGE.--33 years, 11,010 cfs (11.41 inches per year).

EXTREMES.--Current year: Maximum discharge, 47,600 cfs Feb. 27 (gage height, 18.70 ft); minimum daily, 1,520 cfs Sept. 6.

Period of record: Maximum discharge, 201,000 cfs May 21, 1943 (gage height, 29.36 ft); minimum daily, 858 cfs Sept. 27-30, 1941.

Flood of Mar. 28, 1913, reached a stage of 26.4 ft, from graph based on once-daily readings by Illinois Central Railroad Co. (discharge, 250,000 cfs).

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs and power development. Records of water temperature for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1335: 1939, 1950.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,340	6,640	7,370	4,740	2,550	44,510	9,660	4,180	7,980	4,060	4,280	2,110
2	6,770	7,210	5,420	4,400	2,500	42,300	7,210	4,180	7,220	3,950	3,950	1,930
3	5,330	7,340	11,200	4,470	2,500	40,000	8,300	3,390	13,600	4,100	3,530	1,730
4	5,500	7,100	11,400	6,440	3,000	37,700	4,540	3,460	11,000	4,210	3,290	1,720
5	3,000	7,500	9,400	6,600	5,540	35,600	4,730	3,730	12,800	4,000	3,080	1,610
6	4,730	4,530	7,100	5,530	22,100	33,700	4,730	3,920	13,000	3,740	2,370	1,520
7	4,450	7,270	7,100	5,490	24,400	30,400	4,300	4,400	11,300	4,540	2,740	2,320
8	4,300	4,020	7,100	4,670	24,700	26,400	7,840	5,400	9,450	5,800	2,630	3,250
9	4,550	5,250	5,220	3,710	27,500	22,500	7,440	6,460	10,300	5,370	2,480	3,770
10	5,000	7,670	6,140	3,610	20,000	19,400	7,180	7,660	12,000	7,670	2,440	5,240
11	5,210	7,350	5,110	4,300	14,300	17,100	5,340	4,700	13,100	12,300	2,470	5,450
12	5,430	6,420	5,700	5,110	16,400	15,200	6,490	6,460	11,400	13,200	3,080	5,110
13	5,140	6,700	5,100	5,470	14,500	13,400	6,220	11,400	12,500	13,800	3,220	4,540
14	6,250	6,630	5,660	5,320	11,400	13,400	6,120	12,300	17,700	12,870	2,810	3,980
15	6,210	6,660	5,470	4,700	10,600	15,700	6,010	11,900	19,400	10,900	2,410	3,550
16	6,100	6,460	5,350	4,770	4,270	20,270	5,540	6,170	16,200	9,640	3,950	3,280
17	7,510	6,200	5,500	4,200	4,390	23,200	5,770	4,300	12,200	8,740	4,060	3,010
18	4,940	6,010	5,110	3,300	12,100	25,600	5,640	7,430	4,210	6,340	1,500	2,660
19	5,020	5,490	5,300	3,530	14,200	27,000	5,560	6,760	7,540	7,750	3,100	2,450
20	4,420	6,140	5,470	3,200	24,100	27,100	5,450	6,140	6,760	7,340	2,650	2,710
21	7,740	6,550	5,400	3,020	27,700	27,500	5,290	5,720	6,740	8,310	2,360	3,170
22	7,000	6,420	5,330	2,760	33,000	25,000	5,050	5,370	6,470	6,980	2,140	3,400
23	7,490	7,400	6,380	3,340	38,000	24,500	4,740	5,000	6,420	5,580	2,090	3,740
24	5,360	4,420	5,620	3,530	41,600	19,400	4,720	4,840	7,100	4,600	2,060	3,920
25	6,120	6,540	6,470	3,650	44,400	17,200	4,690	6,300	6,490	4,670	1,970	3,970
26	5,440	7,440	6,070	3,730	46,500	15,000	4,310	12,900	5,640	5,040	2,050	4,210
27	5,620	7,300	5,540	3,400	47,400	13,400	4,420	13,000	5,690	4,640	2,830	4,580
28	5,440	6,550	5,420	2,600	44,300	12,200	4,340	13,500	5,400	4,340	2,330	4,580
29	5,430	6,550	5,270	2,550	-----	11,200	4,250	12,600	4,750	4,100	2,750	5,060
30	5,660	6,740	5,340	2,700	-----	10,500	4,320	10,700	4,300	4,840	2,590	6,660
31	5,610	-----	4,470	2,600	-----	10,000	-----	8,900	-----	4,570	2,200	-----
TOTAL	102,180	74,400	205,650	130,200	506,080	718,100	191,040	234,670	274,660	210,200	89,710	105,270
MAX	7,510	7,240	6,440	4,220	21,600	23,160	6,160	7,690	4,420	6,781	2,862	3,500
MIN	4,300	4,220	11,500	6,030	47,400	44,000	9,000	13,500	18,600	13,800	4,280	6,660
CSF	4,300	5,440	4,470	2,550	2,500	10,000	4,220	3,730	4,300	3,740	1,470	1,520
CSF	4.7	4.56	4.91	4.32	1.66	1.77	4.49	5.0	4.75	5.2	2.2	2.7
IN	4.5	4.62	4.94	4.37	1.72	2.04	4.54	5.68	4.44	4.60	2.25	2.30
CAL YR 1970	TOTAL 3,983,430			MEAN 10,914	MAX 71,900	MIN 2,220	CSF .83	IN 11.30				
WTR YR 1971	TOTAL 3,092,590			MEAN 8,473	MAX 47,400	MIN 1,700	CSF .69	IN 9.43				

03342100 Busseron Creek near Hymera, Ind.

LOCATION.--Lat 39°12'54", long 87°18'41", In NW¼NW¼ sec.21, T.9 N., R.8 W., Sullivan County, on right bank at downstream side of bridge on County Road 900 North, 1.9 miles northwest of Hymera, and 3.9 miles upstream from West Fork Busseron Creek.

DRAINAGE AREA.--16.7 sq mi.

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Concrete control since Sept. 12, 1969. Datum of gage is 480.00 ft above mean sea level (U.S. Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--5 years, 16.8 cfs (13.67 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,300 cfs Feb. 22 (gage height, 16.99 ft); no flow Oct. 4-7, Sept. 5-9.
Period of record: Maximum discharge, 1,450 cfs Dec. 8, 1966, Jan. 29, 1969; maximum gage height, 17.44 ft Jan. 29, 1969; no flow at times most years.

REMARKS.--Records fair except those for parts of December and January, which are poor. Flow affected by Soil Conservation Service flood water retarding structures.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.02	.28	.47	1.4	.52	44	3.4	.39	.80	.31	.59	.27
2	.02	.60	.42	1.5	.50	33	4.1	.47	3.9	.30	.43	.11
3	.02	.68	.47	4.0	.66	25	3.0	.39	16	.32	.35	.07
4	0	.60	.42	100	115	19	2.4	.39	8.6	.39	.39	.03
5	0	.47	.32	29	100	15	2.2	.43	6.0	.55	.31	0
6	0	.42	.28	10	50	22	2.4	13	4.4	.39	.23	0
7	0	.36	.24	4.0	20	22	2.2	25	3.2	.31	.20	0
8	.20	.32	.22	2.8	10	16	2.0	18	13	4.1	.17	0
9	.86	.53	.21	2.3	5.0	12	1.8	8.6	7.5	6.8	.16	0
10	.20	.68	.20	2.1	4.0	13	1.4	5.5	5.3	35	.15	.03
11	.10	.53	.21	1.5	4.5	12	1.2	4.4	3.7	24	2.2	.23
12	.13	.47	.24	1.7	5.0	10	1.2	6.8	5.3	15	.51	.19
13	.16	.53	.28	1.6	6.5	8.6	1.8	4.6	3.2	9.8	.31	.15
14	.60	.86	.24	2.2	4.7	8.0	2.0	1.8	2.2	7.5	.31	.13
15	.16	1.3	.24	2.8	4.2	45	1.6	2.2	2.8	6.3	12	.15
16	.08	.96	2.1	2.1	3.9	20	1.4	1.4	2.4	4.8	4.8	.23
17	.06	.86	6.7	1.8	105	14	1.2	1.0	1.2	4.1	2.8	.27
18	.06	.77	5.0	1.4	59	11	1.2	.64	.70	6.8	1.6	.23
19	.06	.86	4.0	1.1	116	10	1.6	.55	.59	31	.80	.35
20	.24	3.3	2.9	1.0	94	8.3	1.0	.47	.55	14	.55	3.4
21	.16	1.3	2.7	.50	88	6.8	.80	.43	.80	8.0	.40	.80
22	.13	.86	3.1	.86	580	5.8	.64	.39	1.2	5.0	.28	.55
23	.12	.75	3.1	.82	94	5.0	.55	.35	.70	3.4	.19	.43
24	.11	.62	3.1	.74	76	4.4	.51	9.2	.59	2.6	.13	.35
25	.10	.63	3.0	.75	66	3.9	.47	12	.55	2.0	.10	.47
26	.12	.53	2.4	.66	120	3.7	.43	6.0	.47	1.4	.08	.47
27	.13	.42	2.0	.61	96	3.7	.51	3.9	.42	.80	.05	.39
28	.32	.37	1.6	.57	58	3.4	.59	2.8	.39	.80	.04	.31
29	.60	.40	1.5	.56	-----	2.8	.47	2.0	.35	2.0	.03	.27
30	.37	.42	1.5	.55	-----	2.2	.43	1.4	.32	1.6	.03	.23
31	.32	-----	1.4	.54	-----	2.0	-----	1.0	-----	1.0	.59	-----
TOTAL	5.45	21.68	50.56	182.26	1,886.48	411.6	44.50	135.50	97.14	200.37	30.78	10.11
MEAN	.18	.72	1.63	5.88	67.4	13.3	1.48	4.37	3.24	6.46	.99	.34
MAX	.86	3.3	6.7	100	580	45	4.1	25	16	35	12	3.4
MIN	0	.28	.20	.54	.50	2.0	.43	.35	.32	.30	.03	0
CFSM	.01	.04	.10	.35	4.04	.80	.09	.26	.19	.39	.06	.02
IN.	.01	.05	.11	.41	4.20	.92	.10	.30	.22	.45	.07	.02
CAL YR 1970	TOTAL 4,632.53	MEAN 12.7	MAX 349	MIN 0	CFSM .76	IN 10.32						
WTR YR 1971	TOTAL 3,076.43	MEAN 8.43	MAX 580	MIN 0	CFSM .50	IN 6.85						

WABASH RIVER BASIN

033421500 West Fork Busseron Creek near Hymera, Ind.

LOCATION.--Lat 39°11'10", long 87°19'44", In NW 1/4 sec. 32, T.9 N., R.8 W., Sullivan County, on right bank at downstream side of bridge on State Highway 48, 1.4 miles upstream from mouth, 1.5 miles west of Hymera, and 3.7 miles east of U.S. Highway 41.

DRAINAGE AREA.--14.4 sq mi.

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 476.00 ft above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.--5 years, 11.3 cfs (10.66 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,030 cfs Feb. 22 (gage height, 11.95 ft); no flow at times during year.
Period of record: Maximum discharge, 1,230 cfs about Jan. 29, 1969 (gage height, 12.28 ft); no flow at times each year.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.26	.65	1.1	1.2	.42	1.3	4.3	1.1	1.4	.83	.25	1.3
2	.26	.93	1.1	1.3	.47	5.6	5.5	1.4	8.9	.83	.20	1.4
3	.29	1.6	.84	8.0	.60	7.5	3.8	1.3	31	.73	.17	.37
4	.33	1.5	1.2	47	73	5.6	3.1	1.0	4.6	.63	.13	.37
5	.29	.98	.51	20	27	5.2	2.8	1.0	2.8	1.4	0	.21
6	.21	.77	.74	8.0	12	16	3.0	17	1.9	.83	0	.14
7	.21	.55	.64	4.0	5.0	19	3.4	28	1.6	.83	0	.08
8	.56	.45	.57	2.5	3.8	8.9	2.8	20	8.4	.93	0	0
9	2.0	.62	.54	1.5	3.2	6.7	3.1	7.9	2.0	18	.08	0
10	2.3	.84	.52	1.3	2.9	9.2	2.8	5.3	1.7	73	.08	0
11	.80	.93	.50	1.1	2.8	8.9	2.6	4.6	.63	15	2.2	.14
12	.58	.93	.54	1.2	3.5	7.9	2.6	8.7	2.7	5.8	.73	.29
13	.50	.91	.75	1.5	5.8	7.2	3.0	5.3	1.3	3.7	0	.37
14	3.6	.87	.62	1.8	4.3	6.7	4.0	3.2	.37	2.4	0	.08
15	1.7	1.1	.53	2.2	3.1	41	3.4	2.8	14	1.8	13	.08
16	.87	1.2	6.2	1.6	3.7	12	3.1	2.3	6.1	.93	1.1	.03
17	.49	1.3	10	1.4	37	7.4	3.0	2.0	2.7	1.3	0	.03
18	.29	1.2	4.9	1.1	31	6.7	2.8	1.7	2.2	12	0	.03
19	.30	1.0	3.7	.90	107	7.2	2.6	1.3	1.7	24	0	.21
20	.80	7.3	2.8	.80	44	7.1	2.2	1.0	1.6	5.6	0	1.9
21	.74	3.6	4.5	.76	33	5.9	2.2	.83	1.9	4.4	0	.08
22	.63	1.9	8.5	.74	344	5.9	1.9	.73	1.4	2.3	0	0
23	.63	1.1	6.3	.68	34	5.0	1.8	.73	.63	1.5	0	0
24	.54	.77	3.7	.63	22	4.4	1.7	11	.29	1.0	0	0
25	.54	.73	3.0	.57	22	4.4	1.5	16	.21	.40	0	.45
26	.55	.73	2.1	.54	74	4.3	1.4	4.3	.21	.22	0	0
27	.63	.74	1.8	.48	44	3.8	1.4	2.6	.14	.25	0	0
28	1.1	.81	1.4	.46	18	3.8	1.5	1.9	.14	.56	0	0
29	2.7	.83	1.3	.47	-----	3.7	1.4	1.5	.29	.50	0	0
30	2.3	1.0	1.2	.47	-----	3.2	1.1	1.5	.45	.37	0	0
31	1.2	-----	1.2	.45	-----	3.4	-----	1.5	-----	.30	0	-----
TOTAL	28.60	37.90	74.50	114.67	561.59	260.6	79.8	159.49	103.26	182.34	17.94	7.56
MEAN	.92	1.26	2.40	3.70	34.3	8.41	2.66	5.14	3.44	5.88	.58	.25
MAX	3.6	7.3	10	47	344	41	5.5	28	31	73	13	1.9
MIN	.21	.45	.50	.45	.42	3.2	1.1	.73	.14	.22	0	0
CFSM	.06	.09	.17	.26	2.38	.58	.18	.36	.24	.41	.04	.02
IN.	.07	.10	.17	.30	2.48	.67	.21	.41	.27	.47	.05	.02

CAL YR 1970 TOTAL 2,622.47 MEAN 7.18 MAX 340 MIN .03 CFSM .50 IN 6.77
WTR YR 1971 TOTAL 2,028.25 MEAN 5.56 MAX 344 MIN 0 CFSM .39 IN 5.24

PEAK DISCHARGE (BASE, 500 CFS).--Feb. 22 (unknown) 1,030 cfs (11.95 ft).

03342250 Mud Creek near Dugger, Ind.

LOCATION.--Lat 39°06'28", long 87°16'42", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.27, T.8 N., R.8 W., Sullivan County, on right bank at downstream side of bridge on County Road 700 East, 0.6 mile north of County Road 100 North, 1.7 miles upstream from mouth, and 2.5 miles northwest of Dugger.

DRAINAGE AREA.--11.9 sq mi.

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 466.41 ft above mean sea level (U.S. Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--5 years, 14.3 cfs (16.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 498 cfs Feb. 22 (gage height, 11.06 ft); minimum daily, 0.9 cfs Aug. 29, 30, Sept. 5.
Period of record: Maximum discharge, 866 cfs May 24, 1968 (gage height, 13.42 ft); minimum daily, 0.44 cfs Nov. 22, 1968.

REMARKS.--Records fair except those for parts of December, January and February, which are poor. Flow affected by surface-mined areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.7	2.2	5.8	3.9	2.4	18	7.3	3.3	4.6	2.5	1.8	1.8
2	1.7	5.8	4.9	4.0	2.4	15	7.7	4.1	13	2.5	1.7	1.3
3	1.6	5.5	4.8	4.5	2.6	13	6.8	3.3	23	2.3	1.6	1.5
4	1.4	3.9	4.2	150	100	10	5.9	2.9	7.7	2.3	1.7	1.0
5	1.4	2.8	3.8	23	83	10	5.9	4.1	6.8	3.7	1.6	.90
6	1.4	2.3	3.6	19	24	20	7.7	29	5.9	2.5	1.5	18
7	1.4	2.0	3.5	16	16	23	6.8	32	5.5	2.5	1.4	4.6
8	5.7	1.8	3.5	14	12	15	6.4	22	6.4	2.3	1.4	1.7
9	22	5.2	3.5	12	10	10	5.9	12	5.0	11	1.4	1.5
10	6.7	8.4	3.2	10	9.0	12	5.5	8.6	4.6	13	1.4	1.4
11	2.2	3.9	4.2	9.0	11	12	5.5	8.6	6.8	3.7	1.4	1.5
12	2.8	3.2	7.7	8.0	16	10	5.5	11	9.5	1.5	1.2	1.5
13	6.2	2.6	5.1	10	45	7.7	6.8	7.7	5.9	1.5	1.2	1.5
14	9.4	4.9	4.2	13	20	6.8	7.3	6.8	5.0	1.3	1.1	1.5
15	3.7	7.0	3.6	11	12	20	5.9	5.9	5.9	1.1	1.2	1.4
16	2.2	3.7	27	10	11	13	5.5	5.5	5.5	1.0	1.1	1.4
17	1.9	2.9	21	9.0	55	10	5.5	5.5	4.1	1.1	1.1	1.4
18	1.9	2.5	12	8.0	30	10	5.0	5.0	4.1	45	1.0	1.3
19	1.8	3.3	9.0	7.0	55	11	5.0	4.6	3.7	18	1.0	2.5
20	3.8	51	6.4	6.0	48	9.5	5.0	4.1	3.7	11	1.0	19
21	2.5	19	12	5.5	35	8.6	5.0	4.1	10	8.0	1.1	4.1
22	2.0	13	18	5.0	219	7.7	4.6	4.1	4.6	6.0	1.1	1.8
23	1.9	10	13	4.5	43	7.7	4.1	4.1	3.7	3.6	1.2	1.7
24	1.8	8.0	10	4.0	30	7.3	4.1	13	3.3	2.5	1.0	1.5
25	1.8	7.0	6.8	4.0	27	7.3	4.1	13	3.3	1.9	1.0	6.4
26	1.6	8.5	6.0	3.6	50	6.8	3.7	6.8	2.9	1.6	.95	4.1
27	1.7	7.6	5.2	3.3	47	6.8	4.1	5.9	2.9	1.3	.95	1.9
28	12	6.4	4.6	3.0	26	6.8	4.1	5.5	2.5	12	.95	1.7
29	15	6.2	4.3	3.0	-----	6.8	3.7	5.0	2.5	3.4	.90	1.5
30	5.3	5.9	4.0	2.8	-----	6.4	3.3	4.6	2.5	4.2	.90	1.4
31	3.0	-----	3.9	2.6	-----	5.9	-----	4.1	-----	2.1	.95	-----
TOTAL	131.0	216.5	228.8	388.7	1,041.4	334.1	163.7	256.2	174.9	176.4	37.80	92.80
MEAN	4.23	7.22	7.38	12.5	37.2	10.8	5.46	8.26	5.83	5.69	1.22	3.09
MAX	22	51	27	150	219	23	7.7	32	23	45	1.8	19
MIN	1.4	1.8	3.2	2.6	2.4	5.9	3.3	2.9	2.5	1.0	.90	.90
CFSM	.36	.61	.62	1.05	3.13	.91	.46	.69	.49	.48	.10	.26
IN.	.41	.68	.72	1.22	3.26	1.04	.51	.80	.55	.55	.12	.29

CAL YR 1970 TOTAL 4,747.40 MEAN 13.0 MAX 262 MIN 1.4 CFSM 1.09 IN 14.84
WTR YR 1971 TOTAL 3,242.30 MEAN 8.88 MAX 219 MIN .90 CFSM .75 IN 10.14

03342300 Busseron Creek near Sullivan, Ind.

LOCATION.--Lat 39°04'33", long 87°23'11", in SE¼NW¼ sec.2, T.7 N., R.9 W., Sullivan County, on left bank at upstream side of bridge on State Road 54, 1.5 miles southeast of Sullivan, 1.6 miles east of intersections of State Roads 41 and 54, and 1.7 miles upstream from Buttermilk Creek.

DRAINAGE AREA.--138 sq mi.

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 440.00 ft above mean sea level (Indiana State Highway Commission bench mark).

AVERAGE DISCHARGE.--5 years, 132 cfs (13.00 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,580 cfs Feb. 23 (gage height, 13.87 ft); minimum daily, 1.1 cfs Sept. 19.

Period of record: Maximum discharge, 5,480 cfs Jan. 30, 1969 (gage height, 15.83 ft); minimum daily, 0.9 cfs Sept. 8, 1966.

REMARKS.--Records fair. Flow affected by surface-mined areas and Soil Conservation Service flood-water retarding structures.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.0	16	19	19	12	286	36	13	21	6.7	11	6.3
2	4.7	19	19	20	12	224	54	15	36	5.1	8.9	3.4
3	3.5	22	19	25	13	173	47	14	396	4.7	9.9	9.9
4	2.6	23	14	900	250	130	38	13	133	4.3	9.9	5.9
5	3.2	19	15	460	1,380	113	34	23	71	7.5	9.9	1.5
6	4.3	17	14	163	960	176	37	96	49	5.1	7.1	23
7	4.3	14	15	115	290	332	40	192	35	3.9	6.3	11
8	14	13	16	170	170	189	35	290	40	3.2	5.5	4.3
9	17	15	15	85	120	128	31	114	54	81	5.5	3.2
10	21	28	13	57	130	131	29	74	29	140	5.9	2.9
11	14	21	13	54	70	141	25	65	22	298	6.7	2.3
12	11	20	18	50	100	117	25	160	56	77	9.4	2.5
13	14	17	17	54	135	104	28	113	51	44	7.5	2.6
14	22	18	16	84	110	93	43	69	24	32	5.5	2.4
15	18	25	17	71	90	248	37	48	29	23	15	1.3
16	14	21	47	54	75	222	32	38	209	17	24	1.3
17	11	20	119	42	464	117	28	35	49	14	11	1.3
18	9.8	18	77	35	786	91	27	30	25	126	7.1	3.2
19	9.4	14	55	22	548	91	24	22	19	241	5.5	1.1
20	12	122	44	24	1,110	86	24	13	15	93	4.3	2.9
21	11	65	53	22	618	71	24	16	27	48	3.5	1.3
22	7.3	42	90	20	1,420	63	21	15	19	31	3.5	5.5
23	6.3	28	85	19	2,330	56	17	17	14	25	3.9	2.7
24	2.3	24	57	19	1,030	59	19	49	12	23	3.2	2.0
25	0.3	22	40	16	670	47	17	347	12	21	2.9	6.3
26	7.5	21	28	15	663	46	15	117	10	18	2.9	3.4
27	7.5	20	22	14	930	43	15	63	7.3	14	2.4	5.1
28	18	19	20	13	455	42	19	44	7.5	21	2.2	2.6
29	44	19	14	13	-----	40	16	33	6.7	22	2.0	2.0
30	31	19	18	13	-----	35	14	27	6.3	19	2.7	1.6
31	22	-----	18	12	-----	33	-----	22	-----	14	4.3	-----
TOTAL	412.5	763	1,029	2,620	15,031	3,717	950	2,177	1,512.5	1,522.5	234.7	172.1
MEAN	13.3	25.4	33.2	84.5	537	120	28.3	70.2	50.4	49.1	6.6	5.74
MAX	44	122	119	900	2,330	332	54	347	396	298	24	29
MIN	2.4	13	13	12	12	33	14	13	6.3	3.2	2.0	1.1
CFSM	.11	.18	.24	.61	3.89	.87	.21	.51	.37	.36	.75	.24
IN	.11	.21	.28	.71	4.05	1.00	.23	.52	.41	.41	.26	.25
CAL YR 1970	TOTAL	30,795.2	MEAN	109	MAX	2,440	MIN	2.6	CFSM	.79	IN	10.73
WTR YR 1971	TOTAL	30,011.3	MEAN	92.2	MAX	2,330	MIN	1.1	CFSM	.60	IN	8.30

03342350 Buttermilk Creek near Paxton, Ind.

LOCATION.--Lat 39°03'43", long 87°20'37", in SE¼NW¼ sec.7, T.7 N., R.8 W., Sullivan County, on left bank at downstream side of bridge, 3 miles northeast of Paxton, and 3 miles upstream from mouth.

DRAINAGE AREA.--16.5 sq mi.

PERIOD OF RECORD.--June 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 450.08 ft above mean sea level (U.S. Soil Conservation Service bench mark).

AVERAGE DISCHARGE.--5 years, 15.3 cfs (12.63 inches per year).

EXTREMES.--Current year: Maximum discharge, 425 cfs Feb. 22 (gage height, 12.94 ft); minimum daily, 0.60 cfs Oct. 19.
Period of record: Maximum discharge, 442 cfs Apr. 4, 1968 (gage height, 13.02 ft); no flow at times most years.

REMARKS.--Records poor. Flow affected by surface-mined areas.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	2.2	3.3	2.1	1.6	20	5.4	2.3	3.3	1.8	3.4	3.3
2	1.9	3.8	2.9	2.2	1.5	22	7.0	2.6	25	1.4	3.1	2.8
3	1.2	4.5	2.9	2.5	1.5	21	5.7	2.3	62	1.7	3.1	4.1
4	1.1	4.1	2.0	163	2.0	16	5.0	2.4	8.3	1.3	3.6	2.9
5	1.1	3.1	1.4	62	88	16	5.0	2.6	5.9	1.8	3.6	2.6
6	1.1	2.2	1.2	2.9	23	58	8.6	107	5.0	1.6	3.1	9.0
7	.95	2.0	1.2	14	11	38	7.9	107	4.0	1.4	2.9	7.2
8	2.0	2.0	1.2	10	16	19	6.1	47	4.5	1.3	2.9	3.6
9	9.5	2.8	1.2	7.2	20	15	5.4	16	3.6	5.5	2.9	3.1
10	3.1	4.5	1.1	6.4	9.8	18	4.7	10	3.8	12	3.1	2.9
11	1.6	3.3	1.4	5.8	10	15	4.5	9.8	3.8	5.9	2.9	2.9
12	1.6	2.8	2.3	5.4	34	13	4.3	11	10	3.1	2.9	2.8
13	2.4	2.8	2.6	6.9	53	11	5.4	6.6	5.0	2.6	2.8	2.6
14	4.5	3.3	2.3	9.0	34	11	8.8	6.2	4.1	2.4	2.3	2.6
15	2.9	4.3	1.6	6.2	2.6	44	6.6	5.9	7.4	2.2	1.4	2.4
16	2.3	4.0	13	5.4	19	15	5.7	5.0	5.0	1.8	1.4	2.6
17	1.2	4.5	24	4.5	114	11	5.2	4.8	3.6	1.6	1.3	2.6
18	.83	2.9	7.9	3.8	37	10	4.5	4.1	3.6	71	1.2	2.6
19	.60	2.6	5.5	3.2	97	11	4.0	3.6	3.4	7.9	1.2	3.3
20	1.2	35	4.1	2.9	62	9.0	3.8	4.8	3.4	3.8	1.2	12
21	1.9	9.0	7.7	2.7	42	7.7	6.1	4.7	4.8	3.6	1.9	2.2
22	2.2	6.4	22	2.6	266	7.2	4.5	3.6	3.6	3.6	2.6	1.4
23	1.6	4.0	12	2.6	50	6.6	4.3	3.4	3.3	2.9	2.6	1.2
24	1.6	4.0	6.4	2.4	30	6.1	4.0	16	3.1	3.1	2.6	.95
25	1.6	3.3	4.5	2.2	23	6.2	3.3	26	2.9	3.6	2.6	2.4
26	2.0	2.6	3.5	2.1	69	5.9	3.1	7.9	2.8	3.1	2.6	2.3
27	2.3	3.6	2.9	1.9	75	5.5	3.1	5.4	2.8	3.1	2.6	1.4
28	3.8	4.0	2.5	1.7	23	5.5	2.9	4.5	2.8	5.0	2.6	1.3
29	5.7	3.8	2.3	1.7	-----	5.0	2.6	4.3	2.2	4.1	2.6	.95
30	3.1	3.4	2.2	1.7	-----	4.5	2.3	4.0	1.8	4.7	2.6	.95
31	2.3	-----	2.1	1.7	-----	3.4	-----	3.1	-----	4.0	2.6	-----
TOTAL	71.18	140.8	151.7	374.8	1,238.4	456.6	140.8	443.9	205.7	172.3	78.1	92.95
MEAN	2.30	4.69	4.85	12.1	44.2	14.7	4.99	14.3	6.86	5.56	2.52	3.10
MAX	9.5	35	24	163	266	58	8.6	107	62	71	3.6	12
MIN	.60	2.0	1.1	1.7	1.5	3.4	2.3	2.3	1.8	1.2	1.2	.95
CFSM	.14	.28	.30	.73	2.68	.89	.30	.87	.42	.34	.15	.19
IN.	.16	.32	.34	.95	2.75	1.03	.34	1.00	.46	.39	.18	.21
CAL YR 1970	TOTAL	4,392.15	MEAN	12.0	MAX	282	MIN	.32	CFSM	.73	IN	9.90
WTR YR 1971	TOTAL	3,576.23	MEAN	9.60	MAX	266	MIN	.60	CFSM	.59	IN	8.06

03342500 Busseron Creek near Carlisle, Ind.

LOCATION.--Lat 38°58'26", long 87°25'33", in NW $\frac{1}{4}$ survey 17, Vincennes Tract, Sullivan County, on left bank 10 ft downstream from bridge on State Highway 58, 1.5 miles northwest of Carlisle, and 6.8 miles upstream from mouth.

DRAINAGE AREA.--228 sq mi.

PERIOD OF RECORD.--October 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 425.36 ft above mean sea level (Indiana State Highway Department bench mark). Prior to Nov. 8, 1950, nonrecording gage at same site and datum. Nov. 8, 1950, to Oct. 31, 1969, at site 200 ft upstream at same datum.

AVERAGE DISCHARGE.--28 years, 208 cfs (12.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,460 cfs Feb. 22 (gage height, 14.23 ft); minimum daily, 4.3 cfs Sept. 18.
Period of record: Maximum discharge, 8,800 cfs Jan. 5, 1950 (gage height, 20.05 ft); maximum gage height, 20.30 ft May 9, 1961; no flow many days in 1954.

REMARKS.--Records good. Flow affected by Soil Conservation Service flood water retarding structures and surface-mined areas.

REVISIONS.--WSP 1335: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	27	32	29	21	492	56	25	33	9.0	16	7.7
2	12	26	30	30	20	319	76	26	37	8.5	14	9.5
3	9.5	40	29	32	23	249	73	27	715	8.0	12	9.3
4	7.7	37	27	1,020	750	183	61	25	311	7.2	12	12
5	7.2	35	25	1,320	1,540	156	54	25	128	11	14	7.8
6	7.8	30	24	550	1,450	263	59	205	90	8.5	12	183
7	9.7	26	19	283	1,050	554	74	340	69	7.0	11	135
8	10	24	24	220	250	294	63	522	77	5.5	11	16
9	34	23	24	140	190	190	56	213	92	72	10	9.6
10	51	42	23	100	150	178	49	128	50	234	9.7	11
11	20	42	23	80	130	188	45	108	37	508	10	30
12	15	35	28	70	160	158	44	174	72	129	9.6	8.9
13	15	32	32	75	180	130	45	192	74	72	11	7.7
14	43	30	27	144	150	126	69	110	65	53	9.6	7.0
15	33	45	26	108	130	316	66	83	44	37	8.7	5.9
16	24	44	65	90	105	346	56	65	213	28	20	4.4
17	18	39	218	84	812	168	51	57	86	23	13	4.4
18	15	36	127	64	1,250	130	47	50	38	253	9.6	4.3
19	13	32	86	55	1,130	127	42	41	27	485	8.1	11
20	15	209	66	40	1,350	120	40	33	46	166	7.1	66
21	17	128	75	40	1,350	103	41	31	28	76	7.2	33
22	16	76	193	36	2,180	92	39	29	26	51	6.9	15
23	16	51	152	34	2,190	83	35	28	20	36	6.8	5.8
24	13	31	57	33	2,170	77	33	51	18	33	7.0	8.1
25	15	36	70	30	1,940	75	31	520	16	31	6.5	9.3
26	15	35	45	26	1,310	74	29	226	15	26	6.1	51
27	14	33	47	24	1,350	71	28	112	13	23	6.1	15
28	15	33	33	23	1,170	70	30	78	12	21	6.8	11
29	65	32	31	23	-----	66	29	60	11	43	5.5	9.0
30	45	32	25	23	-----	60	27	47	10	28	5.7	8.3
31	35	-----	29	22	-----	55	-----	39	-----	25	5.4	-----
TOTAL	640.0	1,341	1,750	4,856	24,542	5,522	1,448	3,671	2,481	2,517.7	258.8	720.0
MEAN	20.6	44.7	55.5	158	877	178	49.3	118	82.7	81.2	9.64	24.0
MAX	65	209	218	1,320	2,190	554	76	522	715	508	20	183
MIN	7.3	23	19	27	20	55	27	25	10	5.5	5.4	4.3
CFSM	.09	.20	.25	.69	3.85	.78	.21	.52	.36	.36	.04	.11
IN.	.10	.22	.25	.80	4.00	.90	.24	.60	.40	.41	.05	.12

CAL YR 1970 TOTAL 64,139.5 MEAN 176 MAX 2,200 MIN 6.0 CFSM .77 IN 10.46
WTR YR 1971 TOTAL 49,827.5 MEAN 157 MAX 2,190 MIN 4.3 CFSM .60 IN 8.13

PEAK DISCHARGE (BASE, 2,200 CFS).--Feb. 22 (1400) 2,460 cfs (14.23 ft).

03343000 Wabash River at Vincennes, Ind.

LOCATION.--Lat 38°42'26", long 87°31'10", In NW¼SW¼ sec.10, T.3 N., R.10 W., Knox County, near center of span on downstream side of bridge on U.S. Highway 50 at the Indiana-Illinois State line, 4.9 miles downstream from Maria Creek, 7.7 miles upstream from Embarras River, and at mile 129.8.

DRAINAGE AREA.--13,700 sq mi, approximately.

PERIOD OF RECORD.--October 1929 to current year. Prior to December 1929 monthly discharge only, published in WSP 1305. Gage-height records for flood peaks in 1867 and 1883, intermittent records 1887-1904, and continuous since November 1904, collected at site 2.1 miles downstream, are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 394.43 ft above mean sea level. Oct. 1, 1960, to Sept. 30, 1968, nonrecording gage at site 2.1 miles downstream at same datum (now used as an auxiliary gage). Oct. 1, 1960, to Sept. 30, 1968, water-stage recorder at site 2.6 miles upstream from base gage at datum 0.80 ft lower. See WSP 1725 for history of changes prior to Oct. 1, 1960.

AVERAGE DISCHARGE.--42 years, 11,280 cfs (11.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 45,500 cfs Feb. 28 (gage height, 19.63 ft); minimum daily discharge, 2,200 cfs Sept. 6. Period of record: Maximum discharge, 189,000 cfs May 22, 23, 1943 (gage height, 29.33 ft, present datum); minimum daily, 770 cfs Aug. 4, 5, 1934. Flood of Mar. 29, 1913, reached a stage of 26.3 ft, present datum, from floodmarks, determined by Corps of Engineers (discharge, 255,000 cfs).

REMARKS.--Records good. Natural flow of stream affected by storage reservoirs and power development.

REVISIONS (WATER YEARS).--WSP 803: Drainage area. WSP 1173: 1943 (maximum gage height only). WSP 1335: 1930-31, 1933, 1936. WSP 1909: 1955.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,540	6,420	7,020	5,190	2,700	44,700	10,400	4,250	8,540	4,290	4,580	2,620
2	7,220	7,320	9,400	5,210	2,700	43,000	10,100	4,180	7,780	4,070	4,330	2,580
3	6,720	7,390	10,700	5,130	2,700	40,700	9,620	3,890	10,800	4,090	3,940	2,400
4	6,120	7,320	11,700	7,220	3,830	38,000	9,340	3,870	13,200	4,250	3,660	2,320
5	5,520	7,330	10,900	8,660	14,600	35,700	9,170	4,090	12,200	4,220	3,410	2,280
6	5,150	9,230	9,440	7,780	21,000	34,400	9,220	5,040	13,900	4,000	3,200	2,200
7	4,440	9,170	8,450	6,480	27,000	33,200	8,940	5,720	12,600	4,030	3,010	2,930
8	4,640	9,240	7,700	5,810	29,000	30,600	8,420	6,440	11,000	5,260	2,890	3,160
9	4,660	9,660	7,040	4,640	26,000	27,100	7,990	7,220	10,300	5,370	2,760	3,510
10	5,020	9,340	6,510	3,760	23,000	23,400	7,490	8,570	11,800	6,120	2,700	4,490
11	5,350	7,560	8,760	4,180	14,000	20,200	7,150	9,220	13,600	11,700	2,620	5,430
12	5,460	7,150	6,070	4,990	17,900	17,700	5,830	11,100	12,700	13,400	2,300	5,300
13	5,350	6,920	7,920	5,610	16,500	15,700	6,530	12,000	11,900	14,300	3,220	4,890
14	6,300	6,760	5,910	5,350	14,400	14,700	6,350	12,500	15,700	13,800	3,070	4,250
15	6,420	6,720	5,720	5,610	10,800	15,600	6,230	12,700	19,100	12,300	2,930	3,810
16	6,560	6,650	7,650	5,190	9,050	14,400	6,140	11,300	18,100	10,600	3,140	3,470
17	7,390	6,470	5,450	4,700	9,460	22,400	6,030	9,380	14,900	9,600	4,160	3,220
18	4,710	6,210	6,120	4,100	13,200	24,700	5,310	8,060	11,200	8,690	3,700	2,950
19	9,170	6,750	6,230	3,400	16,300	25,700	5,720	7,220	8,420	9,210	3,350	2,740
20	4,830	6,440	6,070	3,500	21,000	26,700	5,610	6,510	7,370	7,900	3,010	2,700
21	4,110	6,660	6,010	3,300	26,000	27,000	5,500	6,050	6,860	8,740	2,720	3,030
22	7,390	6,700	6,010	3,240	30,000	26,300	5,260	6,050	7,040	7,940	2,680	3,140
23	6,740	7,500	6,530	3,430	34,000	23,900	4,990	5,650	6,990	6,420	2,620	3,430
24	6,450	8,880	6,860	3,720	37,000	21,200	4,360	5,350	7,150	5,280	2,600	3,770
25	6,300	7,120	6,830	3,210	39,900	14,900	4,620	5,150	6,980	4,710	2,520	3,870
26	5,070	4,540	6,510	3,760	42,400	16,700	4,690	6,720	6,050	5,190	2,480	4,070
27	5,430	7,700	4,100	3,350	44,600	14,900	4,550	11,300	5,740	4,950	2,700	4,380
28	5,650	7,200	5,700	3,000	45,400	13,400	4,510	13,800	5,700	4,770	3,180	4,580
29	5,570	7,090	5,610	2,700	-----	12,300	4,330	14,000	5,190	4,470	3,050	4,690
30	5,660	6,660	5,410	2,800	-----	11,500	4,310	12,000	4,600	4,730	3,030	5,760
31	5,470	-----	5,300	2,600	-----	10,600	-----	10,100	-----	4,950	2,320	-----
TOTAL	177,140	272,430	214,470	144,420	602,940	751,100	200,900	249,630	307,110	220,050	96,470	108,000
MEAN	6,355	7,414	6,916	4,665	21,530	24,230	6,697	8,053	10,240	7,098	3,125	3,600
MAX	9,170	9,240	11,700	8,660	45,400	44,700	10,400	14,000	19,100	14,300	4,580	5,760
MIN	4,640	6,050	5,300	2,700	2,700	10,800	4,310	3,870	4,600	4,000	2,480	2,200
CFS 4	.46	.54	.51	.34	1.57	1.77	.47	.59	.75	.52	.23	.26
IN.	.54	.51	.55	.30	1.64	2.04	.55	.68	.93	.80	.26	.29
CAL YR 1970	TOTAL 4,143,470	MEAN 11,350	MAX 67,100	MIN 2,340	CFSM .33	IN 11.25						
ATK YR 1971	TOTAL 3,315,250	MEAN 9,083	MAX 45,400	MIN 2,200	CFSM .26	IN 9.00						

WABASH RIVER BASIN

03345500 Embarras River at Ste. Marie, Ill.

LOCATION.--Lat 38°56'10", long 88°01'10", in NW¼NW¼ sec.30, T.6 N., R.14 W., Jasper County, on left bank at downstream side of highway bridge at Ste. Marie.

DRAINAGE AREA.--1,513 sq mi.

PERIOD OF RECORD.--October 1909 to December 1912, August 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 445.75 ft above mean sea level (levels by Corps of Engineers). Prior to June 29, 1940, nonrecording gage and June 29, 1940, to Jan. 24, 1967, water-stage recorder at same site at datum 1.00 ft higher.

AVERAGE DISCHARGE.--60 years, 1,175 cfs (10.55 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,310 cfs Feb. 25 (gage height, 18.67 ft); minimum daily, 54 cfs Sept. 19.
Period of record: Maximum discharge, 44,800 cfs Jan. 4, 1950 (gage height, 25.95 ft, present datum), from curve extended above 29,000 cfs; maximum gage height, 26.54 ft, present datum, June 30, 1957; minimum discharge, 1 cfs Oct. 5-9, 1914.

REMARKS.--Records good except those for winter periods, which are poor.

REVISIONS (WATER YEARS).--WSP 1083: 1934. WSP 1113: 1910-31, 1933, 1939-40, 1945(M). WSP 1725: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	156	159	199	110	3,170	492	193	749	227	681	163
2	33	157	156	178	103	2,610	474	190	663	202	686	169
3	87	163	150	171	150	2,240	469	193	1,130	198	611	149
4	91	169	158	198	893	1,920	438	177	1,830	182	488	89
5	76	177	166	259	4,350	1,580	413	172	2,120	177	388	75
6	72	175	167	407	5,740	1,410	397	241	2,030	198	326	71
7	69	169	154	559	4,230	1,690	377	404	1,450	283	285	71
8	72	159	149	587	1,940	1,860	355	811	1,040	471	261	74
9	75	154	140	649	1,640	1,550	342	704	822	687	243	74
10	73	148	136	609	1,900	1,420	328	619	683	1,120	236	71
11	75	146	133	489	1,810	1,330	318	674	547	2,880	216	75
12	110	181	134	476	1,460	1,230	301	597	780	2,240	199	71
13	103	175	131	362	1,110	1,160	291	1,210	2,500	1,480	190	65
14	112	160	132	336	800	1,110	289	1,010	1,930	2,060	182	62
15	227	153	130	343	770	1,400	274	913	1,290	1,770	167	61
16	284	151	134	372	800	1,860	289	977	1,070	1,560	159	61
17	222	155	132	323	1,140	1,400	280	907	1,090	1,590	148	59
18	250	151	135	294	2,230	1,370	272	755	853	1,910	133	55
19	246	147	154	386	2,450	1,350	266	655	771	4,040	121	54
20	228	152	143	408	3,720	1,250	258	560	627	2,310	111	72
21	206	153	143	367	3,770	1,160	250	483	552	999	104	66
22	213	292	147	317	5,580	1,020	241	430	607	786	101	62
23	210	250	229	267	7,080	914	236	392	464	767	96	59
24	182	230	363	230	7,740	822	230	381	409	770	92	62
25	179	210	256	200	7,780	742	222	1,050	377	705	86	57
26	175	230	208	180	6,110	698	218	2,510	336	575	81	59
27	167	190	151	160	5,420	640	213	2,470	317	546	78	77
28	152	180	201	150	4,800	606	210	1,820	286	590	75	112
29	154	170	215	140	-----	577	205	1,360	269	632	73	87
30	145	150	231	130	-----	549	202	1,080	247	677	71	72
31	153	-----	205	120	-----	518	-----	875	-----	592	68	-----
TOTAL	4,616	5,233	5,322	9,746	85,503	41,227	4,170	24,803	27,799	33,224	6,756	2,351
MEAN	149	174	172	316	2,054	1,333	306	800	927	1,072	218	78.4
MAX	286	292	363	649	7,780	3,170	492	2,510	2,500	4,040	686	169
MIN	69	146	140	120	100	519	202	172	247	177	68	54
CFSM	.10	.12	.11	.21	2.02	.84	.20	.53	.61	.71	.14	.75
IN.	.11	.13	.13	.24	2.10	1.01	.23	.61	.69	.82	.17	.96

CAI Yr 1970 TOTAL 157,313 MEAN 774 MAX 18,400 MIN 48 CFSM .66 IN 2.70
Wtr Yr 1971 TOTAL 258,720 MEAN 771 MAX 7,780 MIN 54 CFSM .46 IN 6.29

PEAK DISCHARGE (BASE, 6,500 CFS).--Feb. 25 (0015) 8,310 cfs (18.67 ft).

03346000 North Fork Embarras River near Oblong, Ill.

LOCATION.--Lat 39°00'35", long 87°56'45", in extreme northwest corner of sec.35, T.7 N., R.14 W., Crawford County, on left bank at downstream side of pier of bridge on State Highway 33, 0.8 mile upstream from Illinois Central Railroad bridge, 2 miles west of Oblong, and 8.5 miles upstream from mouth.

DRAINAGE AREA.--319 sq mi.

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 456.19 ft above mean sea level. Prior to Dec. 11, 1940, nonrecording gage and Dec. 11, 1940, to Sept. 30, 1964, water-stage recorder at same site at datum 2.00 ft higher.

AVERAGE DISCHARGE.--31 years, 239 cfs (10.17 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,460 cfs Feb. 23 (gage height, 18.33 ft); minimum, 5.6 cfs Sept. 1.

Period of record: Maximum discharge, 27,100 cfs Jan. 4, 1950 (gage height, 24.38 ft, present datum), from rating curve extended above 16,000 cfs; no flow for many days in 1953-54, 1964.

REMARKS.--Records fair except those for winter periods, which are poor.

REVISIONS.--WSP 1725: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	51	34	29	15	389	51	21	33	12	19	5.8
2	11	38	35	29	15	276	51	21	41	12	15	6.6
3	10	34	34	50	15	214	53	20	527	11	13	5.9
4	9.4	66	33	150	100	173	50	20	1,260	9.7	12	7.3
5	8.9	63	31	343	1,000	146	44	20	197	9.6	12	7.4
6	8.5	54	28	289	2,500	154	41	36	104	9.6	11	7.4
7	9.0	47	26	283	1,500	488	41	166	74	10	11	7.3
8	10	38	24	193	500	395	41	273	72	10	10	6.9
9	13	33	23	56	250	208	40	250	70	154	9.6	6.8
10	71	30	23	44	300	173	37	134	53	414	385	6.8
11	86	32	23	40	250	191	35	113	40	942	132	6.8
12	35	44	23	37	150	186	33	108	217	291	95	6.8
13	26	37	23	37	100	185	31	218	419	116	39	6.8
14	33	33	24	36	60	169	32	156	142	107	21	6.8
15	206	34	25	36	50	429	35	107	69	71	17	6.8
16	91	43	25	32	50	901	37	79	121	40	14	6.8
17	44	61	25	29	443	321	34	61	166	58	12	6.8
18	31	45	51	28	1,390	198	32	52	50	654	10	6.6
19	25	38	55	24	1,320	163	31	44	34	1,880	9.5	6.6
20	23	71	44	23	1,680	159	30	33	35	493	9.3	7.0
21	23	295	39	22	1,670	146	28	30	33	87	9.1	7.2
22	40	202	47	21	2,580	121	27	27	63	42	8.5	8.3
23	34	102	277	20	5,100	106	26	25	34	27	7.8	8.8
24	26	58	219	20	3,560	91	24	25	21	22	7.3	8.7
25	23	43	119	20	994	80	23	540	18	21	7.1	8.5
26	20	40	55	19	755	75	22	365	16	20	6.8	8.4
27	10	36	55	19	1,560	72	22	144	15	28	6.4	9.1
28	19	35	47	18	1,290	68	22	91	14	26	6.4	11
29	23	35	37	18	-----	64	21	62	12	42	6.3	8.6
30	151	33	32	17	-----	61	23	51	11	67	6.0	6.8
31	93	-----	31	16	-----	55	-----	39	-----	26	5.9	-----
TOTAL	1,234.8	1,771	1,567	1,598	29,197	6,457	1,017	3,331	3,970	5,711.9	934.0	221.4
MEAN	39.8	59.0	50.5	64.5	1,043	208	33.9	107	132	184	30.1	7.38
MAX	206	295	277	343	5,100	901	53	540	1,260	1,880	385	11
MIN	8.5	30	23	16	15	55	21	20	11	9.6	5.9	5.8
CFSM	.12	.19	.16	.20	3.27	.65	.11	.34	.41	.58	.09	.02
IN.	.14	.21	.18	.23	3.40	.75	.12	.39	.46	.67	.11	.03

CAL YR 1970 TOTAL 87,700.6 MEAN 240 MAX 6,110 MIN 6.4 CFSM .75 IN 10.23
 WTR YR 1971 TOTAL 57,410.1 MEAN 157 MAX 5,100 MIN 5.9 CFSM .49 IN 6.69

PEAK DISCHARGE (BASE, 4,000 CFS).--Feb. 23 (0600) 5,460 cfs (18.33 ft).

WABASH RIVER BASIN

03346900 Prairie Creek Reservoir near Muncie, Ind.

LOCATION.--Lat 40°08'46", long 85°17'35", in NE¼NE¼ sec.32, T.20 N., R.11 E., Delaware County, at intake tower of reservoir on Prairie Creek, 0.3 mile above mouth, and 5.8 miles southeast of Muncie.

DRAINAGE AREA.--16.8 sq mi.

PERIOD OF RECORD.--1962 to current year.

GAGE.--Water-stage recorder.

REMARKS.--Reservoir is formed by earth fill dam. Releases normally controlled by three 24-inch valves. Capacity at uncontrolled spillway elevation (990 ft) is 22,100 acre-ft. Reservoir is used for low-flow augmentation and recreation. Reservoir was filled for the first time in the spring of 1963.

COOPERATION.--Records furnished by Muncie Water Works Company.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	988.3	19,760	-
Oct. 31.....	987.9	19,290	-470
Nov. 30.....	987.7	19,060	-230
Dec. 31.....	988.0	19,400	+340
Calendar year 1970.....	-	-	-210
Jan. 31.....	987.9	19,290	-110
Feb. 28.....	990.4	22,360	+3,070
Mar. 31.....	990.0	21,850	-510
Apr. 30.....	990.0	21,850	0
May 31.....	990.2	22,100	+250
June 30.....	990.0	21,850	-250
July 31.....	989.8	21,600	-250
Aug. 31.....	988.6	20,120	-1,480
Sept. 30.....	989.6	21,350	+1,330
Water year 1971			+1,590

Diversion for municipal supply for city of Muncie

Water supply for the city of Muncie is from White River and augmented by Prairie Creek Reservoir. Water is diverted at Muncie Water Works on Burlington Drive, 3.0 miles upstream from White River at Muncie (03347000) and returned at sewage disposal plant 3.9 miles downstream from station.

Diversion, monthly and yearly means in cfs-days

Oct.	Nov.	Dec.	1970 Cal. year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	1971 Water year
18.3	16.9	18.8	19.7	20.0	21.5	20.3	20.4	20.2	21.4	21.0	21.2	21.6	20.1

03347000 White River at Muncie, Ind.

LOCATION.--Lat 40°12'15", long 85°23'14", SE 1/4 NW 1/4 Hackley Reserve, Delaware County, on right bank 200 ft downstream from Walnut Street Bridge in Muncie and 6 miles upstream from Bell Creek.

DRAINAGE AREA.--241 sq mi.

PERIOD OF RECORD.--November 1930 to current year. Prior to October 1948, published as West Fork White River at Muncie. Daily gage heights from October 1924 to December 1929 are available in the district office.

GAGE.--Water-stage recorder. Datum of gage is 917.10 ft above mean sea level (city of Muncie bench mark). See WSP 1705 for history of changes prior to Jan. 28, 1942. Jan. 28, 1942, to Apr. 27, 1964, water-stage recorder at present site at datum 3.00 ft higher.

AVERAGE DISCHARGE.--40 years (1931-71), 203 cfs (11.43 inches per year) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 4,080 cfs Feb. 5 (gage height, 8.45 ft); minimum daily, 5.8 cfs Sept. 18.
Period of record: Maximum discharge, 14,300 cfs Apr. 21, 1964; maximum gage height, 21.07 ft Jan. 15, 1937, present datum;
minimum daily, 1.1 cfs Sept. 16, 17, 23-25, 1954 and Oct. 10, 1956.
Maximum stage known, 22.6 ft in March 1913, present datum (discharge, 20,000 cfs).

REMARKS.--Records fair. Records of diversion available since October 1937. Natural flow affected by regulation of Prairie Creek Reservoir (see sta 03346900) and by diversion of municipal water supply by Muncie Water Works Co. (See p.).

REVISIONS (WATER YEARS).--WSP 1335: 1931-32(M), 1936(M), 1938, 1948. WSP 1435: 1955. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	20	19	30	9.0	366	54	42	97	46	25	11
2	21	19	17	30	9.0	286	65	46	181	47	23	10
3	21	17	16	35	24	239	68	45	256	31	20	23
4	24	21	15	254	1,640	188	55	43	164	24	21	27
5	18	18	15	444	2,310	155	50	43	122	23	20	32
6	15	17	14	243	610	144	50	147	99	16	20	306
7	15	19	13	180	270	254	45	267	90	10	18	334
8	17	19	12	150	200	290	45	731	135	8.2	20	91
9	24	19	11	110	160	204	45	614	103	29	18	48
10	26	17	10	85	120	163	45	442	68	38	15	28
11	30	18	12	70	104	194	45	300	55	91	25	23
12	36	20	25	55	258	235	45	407	64	91	23	39
13	41	19	38	45	552	395	45	355	71	56	19	36
14	58	19	41	50	274	650	65	244	75	37	13	20
15	36	22	34	60	214	539	60	177	55	24	13	15
16	20	21	32	50	102	585	50	151	43	28	11	9.3
17	18	18	43	40	585	566	50	452	35	38	7.9	7.9
18	14	17	59	35	1,850	374	45	315	31	39	7.3	5.8
19	13	18	56	30	1,650	290	45	201	171	40	9.7	6.7
20	18	31	50	25	2,670	342	45	191	262	34	17	17
21	19	27	44	25	1,450	278	43	163	127	30	18	20
22	19	30	52	25	1,120	214	43	118	88	30	33	53
23	19	24	95	25	2,260	178	43	104	61	34	27	83
24	19	17	118	20	866	145	45	128	51	66	19	48
25	19	18	87	20	426	125	45	536	42	64	18	34
26	16	17	60	15	386	115	45	475	41	40	17	26
27	15	20	45	15	992	97	45	293	38	22	15	23
28	14	19	40	15	750	82	42	196	28	24	17	50
29	16	24	35	13	-----	70	40	151	26	28	17	83
30	16	21	30	12	-----	62	40	124	26	28	15	21
31	20	-----	30	11	-----	52	-----	108	-----	27	13	-----
TOTAL	678	606	1,168	2,217	21,861.0	7,877	1,448	7,609	2,705	1,143.2	554.9	1,530.7
MEAN	21.9	20.2	37.7	71.5	781	254	48.3	245	90.2	36.9	17.9	51.0
MAX	58	31	118	444	2,670	650	68	731	262	91	33	334
MIN	13	17	10	11	9.0	52	40	42	26	8.2	7.3	5.8
CFSM	.09	.08	.16	.30	3.24	1.05	.20	1.02	.37	.15	.07	.21
IN.	.10	.09	.18	.34	3.37	1.22	.22	1.17	.42	.18	.09	.24

CAL YR 1970 TOTAL 57,688.0 MEAN 158 MAX 2,880 MIN 10 CFSM .66 IN 8.90
WTR YR 1971 TOTAL 49,397.8 MEAN 135 MAX 2,670 MIN 5.8 CFSM .56 IN 7.62

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0200	8.45	4,080	02-20	1330	7.59	2,970
02-17	2200	7.70	3,710				

WABASH RIVER BASIN

03347500 Buck Creek near Muncie, Ind.

LOCATION.--Lat 40°08'05", long 85°22'25", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.34, T.20 N., R.10 E., Delaware County, on left bank at downstream side of highway bridge, 1 mile upstream from Muncie Water Works Co. pumping station, and 4.2 miles southeast of courthouse in Muncie.

DRAINAGE AREA.--35.5 sq mi.

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 944.67 ft above mean sea level. Prior to May 5, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--17 years, 33.0 cfs (12.62 inches per year).

EXTREMES.--Current year: Maximum discharge, 724 cfs Feb. 19 (gage height, 9.41 ft); minimum daily, 8.4 cfs Aug. 31, Sept. 1.
Period of record: Maximum discharge, 1,780 cfs Apr. 21, 1964 (gage height, 13.96 ft); minimum daily, 5.6 cfs Dec. 20, 1964.
Maximum stage known about 15 ft, from information by local residents. Date unknown.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1909: 1955, 1957, WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	14	15	12	10	41	22	14	20	15	11	8.4
2	14	14	14	12	10	37	23	14	25	14	11	8.7
3	14	15	15	13	29	33	21	14	21	13	11	11
4	14	15	15	119	421	29	20	14	19	13	12	11
5	14	15	15	48	409	27	20	14	19	13	11	9.6
6	14	15	14	35	71	34	20	44	18	13	11	151
7	14	14	14	30	45	44	20	54	18	12	11	80
8	14	14	14	26	37	33	20	105	24	13	11	32
9	15	14	14	23	32	28	20	56	18	14	11	22
10	16	15	14	21	30	31	19	60	17	16	11	19
11	15	15	14	19	28	36	19	41	16	15	13	19
12	17	15	20	18	111	49	19	76	22	13	9.6	17
13	18	15	20	18	50	61	21	46	19	12	10	15
14	29	15	18	22	36	47	22	35	17	12	10	14
15	20	15	17	19	28	61	20	31	16	12	10	13
16	17	15	18	19	26	50	19	28	16	14	9.9	14
17	16	14	21	17	332	39	18	26	15	13	9.6	13
18	15	14	19	16	213	34	17	24	14	12	9.3	12
19	14	14	18	15	289	40	17	23	87	12	9.3	12
20	15	22	17	15	298	40	16	22	46	12	9.0	26
21	15	19	17	14	75	35	17	20	34	11	9.0	20
22	15	17	26	13	393	32	17	20	25	11	10	16
23	14	16	26	13	103	29	17	19	20	11	9.6	14
24	14	16	20	12	53	27	16	23	19	20	9.0	14
25	14	15	18	12	43	26	16	56	18	14	9.6	22
26	14	15	17	12	139	26	16	34	17	14	9.9	41
27	14	15	16	11	92	24	16	28	16	13	9.3	26
28	14	15	15	11	53	24	16	25	15	12	9.3	21
29	15	15	14	11	-----	23	15	23	15	12	9.0	18
30	15	15	13	10	-----	22	15	21	14	13	8.7	17
31	14	-----	13	10	-----	22	-----	20	-----	12	8.4	-----
TOTAL	477	457	521	645	3,445	1,084	554	1,030	660	406	312.5	716.7
MEAN	15.4	15.2	16.8	20.8	123	35.0	18.5	33.2	22.0	13.1	10.1	23.9
MAX	29	22	26	119	421	61	23	105	87	20	13	151
MIN	14	14	13	10	10	22	15	14	14	11	8.4	8.4
CFSM	.43	.43	.47	.59	3.46	.99	.52	.94	.62	.37	.28	.67
IN.	.50	.48	.55	.68	3.61	1.14	.58	1.08	.69	.43	.33	.75

CAL YR 1970 TOTAL 10,872.0 MEAN 29.8 MAX 454 MIN 12 CFSM .84 IN 11.39
WTR YR 1971 TOTAL 10,308.2 MEAN 28.2 MAX 421 MIN 8.4 CFSM .79 IN 10.80

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	1745	9.35	716	02-19	2400	9.41	724
02-17	1915	8.37	601	02-22	1100	9.06	677

03348000 White River at Anderson, Ind.

LOCATION.--Lat 40°06'22", long 85°40'20", in SW1/4 sec. 7, T.19 N., R.8 E., Madison County, on left bank at municipal water-supply plant in Anderson, 1 mile upstream from Killbuck Creek.

DRAINAGE AREA.--406 sq mi.

PERIOD OF RECORD.--July 1925 to September 1926, October 1931 to current year. Monthly discharge only for some periods, published in WSP 1305. Gage-height records collected at site 700 ft downstream December 1910 to February 1918 and at present site since February 1918 are contained in reports of U.S. Weather Bureau. Prior to October 1948, published as West Fork White River at Anderson.

GAGE.--Nonrecording gage and concrete dam. Gage read twice daily. Datum of gage is 825.02 ft above mean sea level. Prior to May 12, 1934, nonrecording gage at site 250 ft upstream at same datum.

AVERAGE DISCHARGE.--41 years, 366 cfs (12.24 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,300 cfs Feb. 20 (gage height, 11.52 ft); minimum daily, 39 cfs Aug. 16, 19-21. Period of record: Maximum discharge, 18,700 cfs Apr. 21, 1964 (gage height, 19.41 ft); maximum gage height, 19.96 ft June 14, 1958; minimum daily discharge, 9.1 cfs Sept. 24, 1940. Maximum stage known, 23.6 ft Mar. 25, 1913, present site and datum, based on determination of U.S. Weather Bureau at site then in use (discharge, 28,000 cfs).

REMARKS.--Records fair except those for January and February, which are poor. The City of Anderson diverts water for its municipal supply above the gage.

COOPERATION.--Gage readings furnished by City of Anderson.

REVISIONS (WATER YEARS).--WSP 1335: 1932, 1934-35, 1936(M), 1938-40. WSP 1385: 1950(P). WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	95	113	80	40	765	174	117	185	130	120	74
2	82	88	102	86	40	530	207	127	255	115	100	86
3	87	147	95	95	60	460	207	130	369	110	95	100
4	76	102	102	355	734	390	158	132	286	100	98	86
5	73	102	83	592	3,430	320	158	145	218	96	96	107
6	79	95	88	258	2,170	290	158	212	212	94	92	350
7	79	82	88	172	770	350	158	654	153	93	92	500
8	73	99	98	223	373	450	158	1,160	201	95	86	250
9	79	82	88	155	163	360	158	1,180	240	97	76	158
10	127	116	88	181	163	320	148	906	174	185	100	127
11	79	95	82	199	163	350	142	570	174	132	130	107
12	79	95	102	155	208	400	142	578	180	185	120	158
13	163	95	116	151	656	620	142	673	172	132	94	158
14	139	95	116	186	730	1,000	212	470	166	120	84	122
15	172	95	116	181	730	1,200	158	378	158	102	72	110
16	123	92	109	150	155	1,000	148	361	158	97	39	92
17	86	92	102	120	329	1,080	148	335	132	97	45	80
18	76	92	131	100	1,790	600	148	505	122	97	52	78
19	76	92	131	96	2,530	500	142	352	358	97	39	84
20	79	106	131	72	3,820	520	142	289	752	98	39	107
21	99	135	155	64	2,030	470	142	276	368	96	39	158
22	92	120	139	60	2,510	400	132	190	218	88	107	158
23	85	113	172	66	3,050	350	132	172	158	86	52	122
24	85	79	208	64	1,330	320	132	127	158	130	56	107
25	79	106	208	60	770	280	142	685	140	150	60	107
26	73	99	208	54	828	240	142	840	130	130	60	212
27	79	92	150	50	1,880	212	142	540	120	100	60	229
28	73	113	110	45	810	207	158	368	115	110	60	174
29	99	120	93	43	-----	201	148	264	180	130	56	174
30	106	127	84	42	-----	185	142	234	150	130	64	127
31	82	-----	82	41	-----	174	-----	201	-----	125	70	-----
TOTAL	2,858	3,040	3,685	4,226	32,302	14,594	4,620	13,171	6,401	3,547	2,354	4,502
MEAN	92.2	101	119	136	1,154	471	154	425	213	114	75.9	150
MAX	172	147	208	592	3,820	1,200	212	1,180	752	185	130	500
MIN	73	79	82	41	40	174	132	117	115	86	39	74
CFSM	.23	.25	.29	.34	2.84	1.16	.38	1.05	.52	.28	.19	.37
IN.	.26	.28	.34	.39	2.56	1.34	.42	1.21	.59	.32	.22	.41

CAL YR 1970 TOTAL 119,948 MEAN 329 MAX 4,400 MIN 73 CFSM .81 IN 10.99
WTR YR 1971 TOTAL 95,300 MEAN 261 MAX 3,820 MIN 39 CFSM .64 IN 8.73

PEAK DISCHARGE (BASE, 2,700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	2300	11.24	3,910	02-22	2300	11.18	3,820
02-20	1330	11.52	4,300				

03348020 Killbuck Creek near Gaston, Ind.

LOCATION.--Lat 40°15'45", long 85°30'53", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.16, T.21 N., R.9 E., Delaware County, on right bank 30 ft upstream from bridge on County Road 500 North, and 15 ft east of County Road 675 West, 3.6 miles southwest of Gaston.

DRAINAGE AREA.--25.5 sq mi.

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage 873.00 ft above mean sea level (revised).

EXTREMES.--Current year: Maximum discharge, 291 cfs Feb. 20 (gage height, 10.39 ft); minimum daily, 2.8 cfs Oct. 19, Aug. 31.
Period of record: Maximum discharge, 378 cfs Jan. 18, 1969; maximum gage height, 10.65 ft Jan. 30, 1969; minimum daily, 2.8 cfs Oct. 19, 1970, Aug. 31, 1971.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	4.3	6.1	6.0	4.0	53	16	9.1	15	5.7	3.3	3.1
2	3.1	4.3	5.5	5.5	4.0	45	18	9.5	18	5.6	3.2	3.1
3	3.1	4.8	5.1	5.5	4.5	38	17	9.2	15	5.3	3.2	3.3
4	3.1	4.7	5.1	37	4.7	31	15	8.7	14	5.2	3.2	3.6
5	3.0	4.5	4.7	33	18.3	27	14	8.4	13	5.1	3.2	3.1
6	3.0	4.4	4.4	20	8.0	29	14	23	12	5.0	3.1	3.1
7	3.0	4.3	4.3	16	4.5	45	14	32	11	5.0	3.2	3.6
8	3.0	4.2	4.4	14	3.0	36	13	131	12	5.1	3.1	3.6
9	2.9	4.1	4.4	12	2.0	29	13	73	10	5.0	3.1	3.9
10	3.2	4.3	4.4	11	1.5	31	12	65	9.3	5.2	3.1	3.8
11	3.5	4.4	4.5	9.5	1.0	40	11	50	9.0	5.4	3.3	3.6
12	3.3	4.3	5.2	8.5	1.5	52	11	41	9.6	5.2	3.4	3.5
13	3.5	4.3	7.2	7.5	2.0	72	12	34	9.0	4.8	3.1	3.7
14	4.3	4.1	6.1	7.0	2.0	57	15	27	8.2	4.7	3.1	3.5
15	5.1	4.1	5.5	6.5	1.5	63	14	23	8.1	4.4	3.1	3.4
16	3.5	4.1	5.6	6.0	1.0	67	13	20	7.9	4.3	3.0	3.6
17	3.0	4.3	7.5	6.0	4.0	45	12	24	7.2	4.1	2.9	3.5
18	2.9	4.1	7.1	5.5	10.0	38	11	21	6.6	4.0	3.1	3.3
19	2.8	4.1	6.7	5.5	17.7	46	10	17	14	3.9	3.1	3.3
20	2.9	5.5	6.0	5.0	28.0	54	9.9	18	23	3.9	3.1	3.8
21	3.2	6.1	5.7	5.0	14.5	42	10	15	15	3.9	3.2	4.6
22	3.4	5.0	6.9	5.0	20.5	36	9.8	14	12	3.7	3.2	4.1
23	3.4	4.4	30	4.5	22.6	31	9.5	13	10	3.6	3.1	3.8
24	3.3	4.0	22	4.5	7.4	27	11	15	8.4	3.7	3.0	3.6
25	3.3	3.9	18	4.5	6.1	25	10	67	7.6	4.0	3.2	3.5
26	3.3	4.1	15	4.2	9.4	23	9.8	45	7.4	3.7	3.2	4.9
27	3.4	4.4	13	4.2	17.9	21	9.6	32	6.7	3.5	3.2	4.4
28	3.5	4.4	11	4.2	6.6	20	11	26	6.1	3.5	3.1	3.4
29	3.8	4.6	9.0	4.2	-----	19	10	21	6.0	3.4	3.1	3.5
30	3.5	6.8	8.0	4.2	-----	17	9.1	18	5.8	3.4	2.9	3.2
31	4.3	-----	7.0	4.0	-----	16	-----	15	-----	3.5	2.8	-----
TOTAL	104.7	134.9	255.4	275.5	2,104.5	1,170	364.7	924.9	316.9	136.8	96.9	108.4
MEAN	3.38	4.50	8.24	8.87	75.2	37.7	12.2	29.9	10.6	4.41	3.13	3.61
MAX	5.1	6.8	30	37	28.0	72	14	131	23	5.7	3.4	4.9
MIN	2.8	3.9	4.3	4.0	4.0	16	9.1	8.4	5.8	3.4	2.8	3.1
CFSM	.13	.18	.32	.35	2.35	1.48	.48	1.17	.42	.17	.12	.14
IN.	.15	.20	.37	.40	3.07	1.71	.53	1.35	.46	.20	.14	.16

WATER YEAR 1970 TOTAL 6,098.5 MEAN 16.7 MAX 250 MIN 2.8 CFSM .65 IN 8.90
WATER YEAR 1971 TOTAL 5,993.5 MEAN 16.4 MAX 230 MIN 2.8 CFSM .64 IN 8.74

PEAK DISCHARGE (BASE, 250 CFS).--Feb. 20 (1730) 291 cfs (10.39 ft). Feb. 23 (0415) 287 cfs (10.34 ft).

03348350 Pipe Creek at Frankton, Ind.

LOCATION.--Lat 40°13'38", long 85°45'58", in SE¼NE¼ sec.31, T.21 N., R.7 E., Madison County, on right bank 20 ft downstream from bridge on County Road 500 West at northeast edge of Frankton.

DRAINAGE AREA.--113 sq mi.

PERIOD OF RECORD.--May 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 810.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,560 cfs Feb. 20 (gage height, 10.04 ft); minimum daily, 4.2 cfs Oct. 6, 7.
Period of record: Maximum discharge, 1,700 cfs Jan. 18, 1969 (gage height, 10.41 ft); minimum daily, 4.2 cfs Oct. 6, 7, 1970.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	11	45	20	17	186	45	26	31	17	11	5.7
2	6.1	12	38	20	23	152	53	27	41	15	8.5	6.1
3	5.4	29	31	20	44	126	49	28	50	15	6.8	18
4	4.6	26	30	116	247	96	43	27	41	17	7.5	16
5	4.6	19	25	113	1,100	79	39	26	33	16	6.7	12
6	4.2	14	21	120	394	91	37	91	29	14	5.9	13
7	4.2	12	19	82	196	181	37	106	26	12	5.9	104
8	4.6	9.4	17	60	110	135	35	314	25	11	5.6	46
9	6.1	8.3	18	50	70	98	33	264	23	19	5.1	24
10	13	14	18	45	45	103	31	161	26	27	6.0	17
11	7.8	16	20	40	40	141	29	123	27	31	12	14
12	6.5	16	28	35	66	186	29	103	36	33	9.9	13
13	6.8	15	43	30	85	381	32	85	29	19	8.8	11
14	23	13	40	30	58	287	37	72	23	13	8.3	10
15	29	13	34	26	46	366	34	60	21	13	8.6	8.9
16	15	11	36	23	39	358	33	56	21	20	8.9	8.3
17	9.4	10	48	24	265	212	33	52	18	19	9.4	7.8
18	6.8	9.4	46	23	821	163	31	49	17	19	8.3	7.2
19	5.7	9.4	45	22	942	166	29	46	31	20	7.8	7.4
20	6.1	28	36	21	1,340	178	29	42	91	18	7.2	38
21	6.8	42	32	20	583	143	30	40	65	16	7.2	61
22	6.5	33	41	19	818	121	30	34	45	14	9.4	31
23	7.8	29	75	18	884	102	28	31	32	13	13	21
24	13	34	68	18	329	83	28	36	26	22	12	16
25	13	21	62	17	219	71	27	94	24	18	8.9	16
26	14	19	64	17	333	64	26	82	24	13	8.3	35
27	16	19	40	16	528	58	26	58	22	8.4	8.3	37
28	17	20	30	16	290	57	30	47	20	8.3	7.8	27
29	19	23	25	16	-----	52	28	40	19	11	6.8	21
30	16	42	25	16	-----	46	27	36	17	13	6.8	18
31	15	-----	20	16	-----	42	-----	33	-----	14	6.5	-----
TOTAL	319.5	577.5	1,120	1,109	9,932	4,524	998	2,289	932	518.7	253.2	670.4
MEAN	10.3	19.3	36.1	35.8	355	146	33.3	73.8	31.1	16.7	8.17	22.3
MAX	29	42	75	120	1,340	381	53	314	91	33	13	104
MIN	4.2	8.3	17	16	17	42	26	26	17	8.3	5.1	5.7
CFSM	.09	.17	.32	.32	3.14	1.29	.29	.65	.28	.15	.07	.20
IN.	.11	.19	.37	.37	3.27	1.49	.33	.75	.31	.17	.08	.22

CAL YR 1970 TOTAL 23,803.4 MEAN 65.2 MAX 1,000 MIN 4.2 CFSM .58 IN 7.84
WTR YR 1971 TOTAL 23,243.3 MEAN 63.7 MAX 1,340 MIN 4.2 CFSM .56 IN 7.65

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	1115	9.14	1,240	02-22	2315	9.32	1,300
02-20	0945	10.04	1,560	02-27	0245	7.10	606

WABASH RIVER BASIN

03348500 White River near Noblesville, Ind.

LOCATION.--Lat 40°07'46", long 85°57'46", in NE¼NE¼ sec.4, T.19 N., R.5 E., Hamilton County, near center of span on downstream side of highway bridge, 1 mile west of Strawtown, 7 miles northeast of Noblesville, 9.5 miles upstream from Cicero Creek, and at mile 277.4.

DRAINAGE AREA.--828 sq mi.

PERIOD OF RECORD.--May 1915 to September 1926, October 1928 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as 'West Branch of White River' prior to October 1922 and as 'West Fork of White River' October 1922 to September 1948. Records of daily discharge for the water year 1928, published in WSP 663, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 763.08 ft above mean sea level (levels by Corps of Engineers). Prior to July 1, 1922, nonrecording gage at bridge 2 miles downstream at different datum. July 1, 1922, to Nov. 21, 1933, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--54 years, 781 cfs (12.81 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,000 cfs Feb. 6 (gage height, 12.55 ft); minimum daily, 109 cfs Aug. 30.
Period of record: Maximum discharge, 27,200 cfs Mar. 21, 1927 (gage height, 16.3 ft, from graph based on gage readings); maximum gage height, 16.35 ft June 14, 1958, Apr. 22, 1964; minimum daily discharge, 39 cfs Sept. 25, 1941.

REMARKS.--Records good except those for January and February, which are fair. Records of water temperatures and suspended-sediment loads for the current year are published in Part 2 of this report. See also period of record.

REVISIONS (WATER YEARS).--WSP 1335: 1915-16, 1918, 1920, 1921(M), 1922, 1927-28(M), 1929-30, 1933(M), 1936, 1941(M). WSP 1725: 1959(M). WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	143	178	281	190	120	1,630	434	234	364	231	171	118
2	141	189	256	190	120	1,290	483	227	438	227	150	127
3	134	328	234	200	130	1,070	443	245	531	206	157	178
4	127	310	227	520	700	875	408	249	515	171	157	171
5	123	368	210	1,000	3,800	724	382	245	419	157	148	143
6	127	224	185	600	5,000	700	371	594	360	150	150	154
7	132	203	175	350	1,500	1,100	364	959	346	161	145	705
8	134	182	171	310	720	1,110	350	1,890	448	150	145	646
9	157	171	178	290	540	849	335	2,390	386	148	134	339
10	278	217	171	270	470	755	321	1,590	335	252	148	252
11	224	217	175	260	420	907	303	1,250	310	292	220	210
12	178	210	206	250	490	1,110	296	1,030	592	299	210	206
13	234	206	256	240	580	1,870	306	1,120	463	270	157	189
14	396	196	252	230	620	2,030	378	881	375	210	148	178
15	483	192	245	230	470	2,050	346	688	335	178	136	157
16	346	182	242	220	420	2,250	328	570	299	168	127	150
17	249	178	278	210	560	1,690	314	520	270	157	136	143
18	199	175	274	200	4,000	1,270	292	823	245	168	136	141
19	171	175	288	150	5,500	1,200	281	622	362	164	127	132
20	171	306	260	180	7,500	1,290	278	488	985	168	132	278
21	185	375	242	170	7,000	1,170	278	448	736	161	129	368
22	182	306	292	165	5,000	985	267	408	504	150	186	310
23	168	249	340	160	6,500	855	260	357	382	143	203	256
24	161	210	400	150	4,000	736	256	375	324	217	157	206
25	154	203	380	150	2,000	658	249	979	292	267	136	189
26	145	192	300	140	2,000	598	238	1,340	267	210	134	285
27	148	182	270	140	3,500	553	249	966	247	164	123	368
28	145	185	250	130	3,000	520	281	682	224	175	123	350
29	196	196	240	130	-----	499	270	520	360	220	114	270
30	224	252	220	120	-----	463	245	430	260	206	109	234
31	199	-----	230	120	-----	434	-----	386	-----	203	116	-----
TOTAL	6,054	6,757	7,702	7,705	66,660	33,241	9,606	23,506	11,969	6,043	4,564	7,453
MEAN	195	225	248	249	2,381	1,072	320	758	399	195	147	248
MAX	483	375	400	1,000	7,500	2,250	483	2,390	985	299	220	705
MIN	123	171	171	120	120	434	238	227	224	143	109	118
CFSM	.24	.27	.30	.30	2.38	1.29	.39	.92	.48	.24	.18	.30
IN.	.27	.30	.35	.35	2.99	1.49	.43	1.06	.54	.27	.21	.33

CAL YR 1970 TOTAL 212,062 MEAN 581 MAX 6,460 MIN 123 CFSM .70 IN 9.53
WTR YR 1971 TOTAL 191,260 MEAN 524 MAX 7,500 MIN 109 CFSM .63 IN 8.59

PEAK DISCHARGE (BASE, 5,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-06	0730	12.55	8,000	02-23	Unknown	Unknown	66,800
02-20	Unknown	Unknown	67,800				

a about

03349000 White River at Noblesville, Ind.

LOCATION.--Lat 40°02'50", long 86°01'00", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec.36, T.19 N., R.4 E., Hamilton County, on right bank at downstream side of Logan Street Bridge in Noblesville, 1.5 miles upstream from Cicero Creek, 3.5 miles downstream from dam at Clare, and at mile 269.0.

DRAINAGE AREA.--858 sq mi.

PERIOD OF RECORD.--October 1946 to current year. Gage-height records collected at present site from December 1913 to December 1935, and after June 1951, and at a site 400 ft downstream January 1936 to May 1951, are contained in reports of U.S. Weather Bureau Prior to October 1948, published as West Fork White River at Noblesville.

GAGE.--Water-stage recorder. Datum of gage is 738.16 ft above mean sea level.

AVERAGE DISCHARGE.--25 years, 791 cfs (12.52 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,940 cfs Feb. 20 (gage height, 13.49 ft); minimum daily, 123 cfs Aug. 30.
Period of record: Maximum discharge, 26,800 cfs Apr. 22, 1964 (gage height, 21.31 ft); minimum daily, 44 cfs Sept. 28, 1954.
Maximum stage known, 23.8 ft Mar. 25, 1913, present site and datum, from U.S. Weather Bureau records.

REMARKS.--Records good except those for January, which are fair. Flow slightly regulated by powerplant above station. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1335: 1949. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	141	203	295	213	130	1,800	449	247	391	231	187	132
2	142	200	270	203	130	1,370	503	237	469	221	163	140
3	139	303	246	205	177	1,140	471	248	568	212	166	167
4	134	324	237	450	821	926	429	259	574	191	165	180
5	130	261	220	975	4,450	765	390	252	460	175	159	161
6	134	234	200	634	4,840	718	373	517	397	172	161	165
7	139	210	198	344	2,000	1,090	363	866	348	176	156	520
8	141	194	186	328	1,040	1,160	355	1,670	574	173	153	779
9	163	188	190	300	700	905	340	2,370	423	172	146	387
10	246	210	186	280	550	772	313	1,590	360	224	150	264
11	228	225	190	270	450	905	299	1,240	313	314	194	215
12	184	218	205	260	470	1,090	287	1,000	652	285	192	203
13	210	210	261	250	634	1,820	303	1,050	562	289	167	208
14	344	205	264	240	700	2,180	367	868	428	222	152	184
15	495	200	258	230	510	2,130	352	673	369	195	149	176
16	369	194	255	210	465	2,460	323	554	324	185	138	167
17	267	192	279	220	646	1,850	309	516	285	175	138	167
18	215	190	279	218	4,140	1,340	285	767	261	180	144	162
19	192	190	292	190	5,700	1,230	267	636	289	177	137	156
20	186	273	276	190	7,710	1,310	269	512	898	180	134	261
21	194	374	258	170	6,920	1,230	265	465	779	176	135	384
22	194	317	282	165	4,370	1,030	267	438	545	171	161	323
23	188	267	369	150	6,550	892	259	373	405	162	196	268
24	180	228	437	155	4,340	766	256	380	324	204	171	215
25	177	215	410	150	2,060	668	253	917	285	255	156	202
26	171	210	369	150	2,180	612	243	1,340	258	215	152	265
27	171	205	292	140	3,720	567	248	1,020	243	192	141	363
28	173	203	255	140	2,580	534	279	717	234	187	137	377
29	196	210	243	140	-----	513	276	565	348	203	131	282
30	237	252	225	135	-----	484	257	475	264	204	123	230
31	225	-----	223	130	-----	456	-----	416	-----	204	127	-----
TOTAL	6,304	6,905	8,120	7,865	69,943	34,703	9,655	23,178	12,610	6,322	4,780	7,703
MEAN	203	230	262	254	2,498	1,119	322	748	420	204	154	257
MAX	495	374	437	975	7,710	2,460	503	2,370	898	314	196	779
MIN	130	188	186	130	130	456	243	237	234	162	123	132
CFSM	.24	.27	.31	.30	2.91	1.30	.38	.87	.49	.24	.18	.30
IN.	.27	.30	.35	.34	3.03	1.50	.42	1.00	.55	.27	.21	.33

CAL YR 1970 TOTAL 230,222 MEAN 631 MAX 6,560 MIN 130 CFSM .74 IN 9.98
WTR YR 1971 TOTAL 198,088 MEAN 543 MAX 7,710 MIN 123 CFSM .63 IN 8.59

PEAK DISCHARGE (BASE, 6,000 CFS).--Feb. 20 (2330) 7,940 cfs (13.49 ft). Feb. 23 (1345) 6,770 cfs (12.52 ft).

WABASH RIVER BASIN

03349500 Cicero Creek near Arcadia, Ind.

LOCATION.--Lat 40°10'34", long 85°59'43", in NW1/4 sec.20, T.20 N., R.5 E., Hamilton County, on left bank at downstream side of bridge, 1.5 miles east of Arcadia and 10 miles upstream from Morse Dam.

DRAINAGE AREA.--131 sq mi.

PERIOD OF RECORD.--October 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 815.12 ft above mean sea level. Prior to Dec. 7, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--17 years, 113 cfs (11.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,380 cfs Feb. 19 (gage height, 8.30 ft); minimum daily, 3.2 cfs Aug. 8.
Period of record: Maximum discharge, 6,720 cfs June 29, 1957 (gage height, 11.86 ft); minimum daily, 0.5 cfs Oct. 10, 1956.
Maximum stage known, 15.6 ft (probably the flood in January 1937), from information by local residents.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	106	124	43	16	236	54	19	40	12	4.3	7.9
2	23	128	104	40	15	206	62	19	70	10	3.6	9.4
3	19	315	92	38	14	157	57	19	81	9.1	3.7	10
4	14	246	87	235	175	108	50	17	67	8.0	3.5	25
5	12	181	68	179	1,110	93	45	18	48	8.0	3.4	20
6	11	140	54	164	515	115	45	55	41	9.8	3.3	17
7	10	115	50	150	271	223	44	60	39	8.3	3.4	21
8	10	92	48	120	170	140	42	190	73	7.5	3.2	23
9	51	85	49	100	100	103	40	131	52	7.0	4.9	21
10	282	85	43	85	70	105	35	88	37	10	11	15
11	179	74	46	70	50	127	32	69	38	100	35	13
12	123	73	59	55	92	164	33	60	248	76	18	12
13	140	67	74	45	74	425	38	49	201	24	8.7	13
14	403	58	67	40	50	369	41	43	119	18	5.7	12
15	423	58	59	35	45	500	35	37	79	12	7.4	13
16	243	52	66	32	50	443	34	35	55	9.0	21	14
17	166	50	78	30	223	271	33	32	42	8.4	16	15
18	126	49	75	28	1,070	206	31	30	35	7.1	12	15
19	98	48	78	26	1,270	220	28	28	37	6.6	9.7	15
20	90	217	61	24	1,210	230	28	25	30	7.0	9.4	17
21	92	259	61	23	519	188	29	21	40	6.0	9.4	45
22	85	184	86	27	1,070	156	28	19	36	5.1	10	31
23	75	132	163	30	874	123	25	19	27	4.5	10	21
24	67	103	140	29	359	99	25	32	23	13	10	16
25	59	87	120	28	302	85	23	261	21	12	9.4	13
26	52	78	90	25	510	76	21	197	19	7.4	11	16
27	47	69	85	20	706	70	22	119	16	5.9	9.4	40
28	45	60	65	19	396	69	25	84	14	5.6	8.4	35
29	132	74	55	18	-----	61	23	63	13	6.7	8.1	25
30	185	127	50	17	-----	52	20	51	12	6.0	7.6	19
31	136	-----	45	17	-----	49	-----	44	-----	5.9	7.4	-----
TOTAL	3,434	3,413	2,342	1,792	11,113	5,519	1,048	1,943	1,653	440.9	287.9	570.3
MEAN	111	114	75.5	57.8	357	178	34.9	62.7	53.1	14.2	9.29	19.0
MAX	423	315	163	235	1,210	500	62	261	248	100	35	45
MIN	10	48	43	17	14	49	20	17	12	4.5	3.2	7.9
CFSM	.85	.87	.58	.44	3.03	1.36	.27	.48	.42	.11	.07	.15
IN.	.98	.97	.67	.51	3.16	1.57	.30	.55	.47	.13	.08	.16

CAL YR 1970 TOTAL 38,720.5 MEAN 106 MAX 1,260 MIN 4.4 CFSM .81 IN 11.00
ATR YR 1971 TOTAL 33,556.1 MEAN 91.9 MAX 1,210 MIN 3.2 CFSM .70 IN 9.53

PEAK DISCHARGE (BASE, 1,100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0945	7.82	1,210	02-22	1945	8.19	1,340
02-19	0045	8.30	1,380				

03349700 Little Cicero Creek near Arcadia, Ind.

LOCATION.--Lat 40°10'32", long 86°02'45", in NE¼NW¼ sec.23 (revised), T.20 N., R.4 E., Hamilton County, on left bank on downstream side of county road bridge, 0.5 mile downstream from Taylor Creek, 1.3 miles west of Arcadia, 3.9 miles upstream from mouth, and 9.3 miles northwest of Noblesville.

DRAINAGE AREA.--40.4 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 840 ft (by barometer).

AVERAGE DISCHARGE.--16 years, 37.2 cfs (12.50 inches per year).

EXTREMES.--Current year: Maximum discharge, 727 cfs Feb. 5 (gage height, 5.42 ft); minimum daily, 0.50 cfs Sept. 18.
Period of record: Maximum discharge, 3,980 cfs June 28, 1957 (gage height, 8.69 ft); no flow at times during 1957, 1963, 1964, 1966-68.

REMARKS.--Records good.

REVISIONS.--WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	13	23	8.0	3.0	72	19	5.4	12	3.3	1.8	1.3
2	1.2	28	18	7.8	3.0	55	23	5.4	22	3.0	1.4	1.3
3	.83	70	16	8.7	3.0	41	22	5.2	69	2.6	1.2	4.1
4	.71	45	15	92	250	31	19	4.8	34	2.4	1.1	12
5	.63	29	12	47	539	26	17	4.8	21	2.5	1.1	6.3
6	.53	20	9.9	25	80	41	17	20	16	2.6	1.1	4.0
7	.67	16	9.2	20	25	74	16	22	24	2.5	1.0	3.7
8	.75	12	9.2	16	15	43	15	44	212	2.2	.98	2.8
9	6.0	12	9.2	14	13	30	14	30	77	2.2	1.1	2.0
10	29	11	9.3	12	11	31	12	20	37	2.4	1.6	1.5
11	13	9.7	6.8	11	10	41	11	17	42	15	17	1.3
12	9.2	9.7	11	10	14	61	11	16	244	9.4	10	1.1
13	15	9.0	14	9.5	9.7	129	12	13	108	4.6	3.9	.93
14	73	8.3	13	8.5	7.1	112	12	11	51	3.3	3.3	.83
15	55	8.1	12	8.0	8.6	150	11	9.6	32	2.5	6.7	.83
16	26	8.1	13	7.0	7.4	124	10	9.1	23	2.3	10	.73
17	16	7.8	18	6.5	8.9	80	10	8.9	18	2.5	4.6	.58
18	12	7.8	20	6.0	288	61	9.4	8.4	15	2.3	3.1	.50
19	9.7	7.0	19	5.5	332	80	8.6	7.6	13	2.3	2.4	.58
20	9.4	8.9	15	5.0	360	94	9.6	6.9	11	2.1	1.9	6.7
21	11	77	14	5.5	128	69	8.9	6.1	10	1.7	1.6	14
22	9.9	50	21	6.7	351	53	8.4	5.6	8.9	1.4	1.6	4.8
23	8.5	27	53	6.0	170	41	7.4	5.4	7.6	1.2	1.5	2.5
24	8.1	19	30	6.2	89	32	7.4	17	6.7	3.3	1.5	1.4
25	7.1	16	20	6.4	81	28	6.7	130	6.5	4.6	1.4	3.3
26	6.5	14	15	5.0	147	26	6.1	68	6.1	3.1	1.4	21
27	5.8	13	13	4.0	172	24	5.8	38	5.2	2.2	1.4	17
28	5.5	12	11	4.0	102	23	7.2	27	4.5	1.6	1.5	7.4
29	23	14	9.0	3.5	-----	21	6.1	21	4.0	1.9	1.5	3.9
30	25	22	9.0	3.5	-----	18	5.6	17	3.7	2.2	1.5	2.6
31	17	-----	8.5	3.2	-----	18	-----	13	-----	2.3	1.4	-----
TOTAL	407.77	685.1	477.1	380.8	3,310.0	1,729	347.2	617.4	1,143.2	97.5	91.58	130.98
MEAN	13.2	22.8	15.4	12.3	118	55.8	11.6	19.9	38.1	3.15	2.95	4.37
MAX	73	89	53	92	537	150	23	130	244	15	17	21
MIN	.63	7.6	8.3	3.2	3.0	18	5.6	4.8	3.7	1.2	.98	.50
CFSM	.33	.56	.38	.30	2.77	1.18	.29	.49	.94	.08	.07	.11
IN.	.38	.63	.44	.35	3.05	1.59	.32	.57	1.05	.09	.08	.12

CAL YR 1970 TOTAL 10,508.36 MEAN 28.8 MAX 490 MIN .08 CFSM .71 IN 9.68
WTR YR 1971 TOTAL 9,417.63 MEAN 25.8 MAX 537 MIN .50 CFSM .64 IN 8.67

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0200	5.42	727	02-20	0530	4.66	500
02-18	2130	4.82	546				

WABASH RIVER BASIN

03350100 Hinkle Creek near Cicero, Ind.

LOCATION.--Lat 40°06'05", long 86°05'10", in NW¼ sec.16 (revised), T.19 N., R.4 E., Hamilton County, on left bank on downstream side of county road bridge, 3.7 miles above mouth, 4.0 miles upstream from Morse Reservoir Dam, 4.2 miles southwest of Cicero, and 5.7 miles northwest of Noblesville.

DRAINAGE AREA.--18.5 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 820 ft (from topographic map).

AVERAGE DISCHARGE.--16 years, 18.4 cfs (13.51 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,580 cfs Feb. 18 (gage height, 5.93 ft); minimum daily, 0.21 cfs Sept. 19.
Period of record: Maximum discharge, 4,920 cfs June 28, 1957 (gage height, 8.45 ft); minimum daily, 0.07 cfs Sept. 8, 1967.

REMARKS.--Records good.

REVISIONS.--WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.73	9.5	12	4.3	1.7	21	9.2	2.7	6.2	2.7	1.7	.47
2	.73	12	9.5	4.4	1.7	17	12	2.7	25	2.4	1.4	.63
3	.68	22	8.6	4.8	1.7	14	10	2.6	41	2.0	1.3	.90
4	.73	15	9.5	45	335	11	8.3	2.5	18	2.0	1.3	1.1
5	.73	12	8.1	22	232	9.1	7.7	2.6	13	2.2	1.3	.78
6	.73	9.1	7.1	15	59	20	7.7	16	11	2.5	1.2	2.9
7	.68	7.6	6.2	11	25	27	7.1	14	17	2.3	1.2	1.8
8	.73	6.2	5.9	9.0	15	18	6.6	28	114	2.0	1.2	.83
9	1.7	5.9	6.2	8.0	10	14	6.4	16	31	1.7	1.1	.65
10	3.4	7.1	5.5	7.0	7.0	14	5.3	11	20	2.5	1.1	.55
11	1.3	5.9	6.2	6.5	6.0	17	5.4	9.3	16	4.8	12	.57
12	1.2	5.5	8.6	6.0	20	27	6.1	9.5	82	2.7	2.4	.54
13	2.0	5.5	11	5.5	12	46	6.9	7.6	35	2.1	1.3	.42
14	9.1	5.2	9.1	5.0	9.0	35	6.6	6.2	23	1.8	1.7	.39
15	6.6	5.9	8.1	4.5	6.0	64	5.7	5.5	17	1.7	8.9	.30
16	3.4	5.5	9.5	4.0	5.0	42	5.4	5.2	13	1.6	2.3	.30
17	2.2	5.2	14	3.6	412	27	5.1	5.3	11	1.7	1.3	.25
18	2.2	5.2	13	3.3	878	22	4.5	4.4	8.8	1.6	1.1	.24
19	1.9	5.2	12	3.0	251	38	4.0	4.1	7.8	1.6	1.0	.21
20	2.5	30	9.5	3.0	142	38	4.0	3.7	7.2	1.6	1.0	3.9
21	3.4	22	10	3.0	39	27	4.3	3.0	8.4	1.4	.95	1.3
22	2.8	17	14	3.0	220	21	3.5	3.0	6.6	1.3	1.1	.58
23	2.8	13	22	3.2	51	17	3.2	3.0	5.3	1.3	1.0	.41
24	3.7	9.1	14	3.4	25	13	3.4	17	4.6	2.6	.92	.34
25	4.1	8.1	10	3.4	24	12	2.9	56	4.4	2.9	.86	.97
26	4.8	7.6	9.0	3.0	74	10	2.8	25	4.3	2.2	.83	4.8
27	5.5	7.6	7.0	2.5	65	9.7	3.1	16	3.6	2.0	.78	1.5
28	6.6	7.1	6.0	2.2	29	9.7	4.4	12	2.9	1.8	.72	1.0
29	15	7.6	5.0	2.0	-----	8.5	2.9	10	2.9	2.0	.65	.84
30	15	12	4.5	1.9	-----	7.2	2.7	8.1	2.7	1.9	.55	.72
31	12	-----	4.5	1.8	-----	6.9	-----	6.6	-----	1.9	.54	-----
TOTAL	118.94	296.6	284.6	204.3	2,955.1	663.1	167.2	318.6	562.7	64.8	54.70	30.20
MEAN	3.84	5.89	9.18	6.59	106	21.4	5.57	10.3	18.8	2.09	1.76	1.01
MAX	15	30	22	45	973	64	12	56	114	4.8	12	4.8
MIN	.68	5.2	4.5	1.8	1.7	6.9	2.7	2.5	2.7	1.3	.54	.21
CFSM	.21	.53	.50	.36	5.73	1.16	.30	.56	1.02	.11	.10	.05
IN.	.24	.60	.57	.41	5.54	1.33	.34	.64	1.13	.13	.11	.06

CAL YR 1970 TOTAL 4,505.36 MEAN 12.3 MAX 324 MIN .49 CFSM .66 IN 9.06
WTR YR 1971 TOTAL 5,720.84 MEAN 15.7 MAX 874 MIN .21 CFSM .85 IN 11.50

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	1915	3.75	604	02-20	0900	3.46	504
02-18	1745	5.93	1,580				

03350300 Morse Reservoir near Noblesville, Ind.

LOCATION.--Lat 40°04'21", long 86°02'47", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.23, T.19 N., R.4 E., Hamilton County, in intake structure of reservoir on Cicero Creek, 2.5 miles northwest of courthouse in Noblesville, and 4.7 miles above mouth.

DRAINAGE AREA.--214 sq mi.

PERIOD OF RECORD.--December 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 760.00 ft above mean sea level.

EXTREMES.--Current year: Maximum contents, 22,600 acre-ft Feb. 20 (elevation, 811.03 ft); minimum, 21,000 acre-ft Sept. 5 (elevation, 809.84 ft).

Period of record: Maximum contents, 25,310 acre-ft June 28, 1957 (elevation, 812.95 ft); minimum, 14,120 acre-ft Jan. 5, 1964 (elevation, 804.26).

REMARKS.--Reservoir is formed by earth fill dam. Releases normally controlled by two 36-inch valves or one 16-inch valve. Minimum design capacity is essentially empty at invert of outlet conduit at elevation of 763.50 ft. Capacity at uncontrolled spillway elevation (810 ft) is 21,180 acre-ft. Reservoir is used for low-flow augmentation and recreation. Reservoir put in operation on Dec. 9, 1955 and was filled for the first time on Feb. 3, 1957.

COOPERATION.--Record furnished by Indianapolis Water Company.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	809.97	21,140	-
Oct. 31.....	810.21	21,460	+320
Nov. 30.....	810.24	21,510	+50
Dec. 31.....	810.17	21,410	-100
Calendar year 1970.....	-	-	+20
Jan. 31.....	810.05	21,240	-170
Feb. 28.....	810.48	21,840	+600
Mar. 31.....	810.10	21,310	-530
Apr. 30.....	810.04	21,230	-80
May 31.....	810.11	21,320	+90
June 30.....	810.03	21,220	-100
July 31.....	809.97	21,140	-80
Aug. 31.....	809.86	21,000	-140
Sept. 30.....	810.04	21,230	+230
Water year 1971	-	-	+90

03350700 Stony Creek near Noblesville, Ind.

LOCATION.--Lat 40°01'44", long 85°59'42", in NE¼NE¼ sec.7, T.18 N., R.5 E., Hamilton County, on left bank at downstream side of county road bridge, 1.4 miles upstream from mouth, and 1.4 miles southeast of Noblesville.

DRAINAGE AREA.--50.8 sq mi.

PERIOD OF RECORD.--July 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 749.00 ft above mean sea level (State Highway Commission bench mark).

EXTREMES.--Current year: Maximum discharge, 813 cfs Feb. 5, 20 (gage height, 5.71 ft); minimum daily, 4.7 cfs Aug. 24, Sept. 1. Period of record: Maximum discharge, 1,010 cfs Feb. 2, 1968 (gage height, 6.64 ft); maximum gage height, 6.91 ft Jan. 18, 1969 (backwater from ice); minimum daily discharge, 3.8 cfs Sept. 1, 1967.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

JAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	8.2	9.4	8.5	6.0	91	23	11	19	40	6.4	4.7
2	6.4	8.0	8.7	8.5	5.5	68	27	11	26	31	6.0	5.0
3	6.4	11	8.5	10	5.5	57	24	9.7	45	18	6.0	6.2
4	6.2	11	8.2	59	441	45	22	9.2	35	14	5.7	7.2
5	6.2	9.0	8.0	42	514	38	21	9.5	29	12	5.9	5.6
6	5.8	8.7	8.2	30	94	40	20	52	24	12	5.5	13
7	6.2	8.2	7.8	19	50	64	20	51	23	9.8	5.5	12
8	6.3	7.8	7.8	16	40	54	19	99	99	8.7	5.3	7.2
9	8.2	7.4	7.4	14	30	41	19	67	69	8.6	5.2	5.9
10	15	8.5	7.4	12	25	41	18	44	43	14	5.3	5.6
11	9.4	8.5	8.2	11	20	51	15	35	33	43	6.7	5.5
12	6.2	8.2	9.4	10	34	59	15	58	120	19	6.1	5.4
13	8.2	8.2	11	10	56	79	16	44	110	12	5.2	5.4
14	24	8.0	9.0	11	34	71	19	34	71	9.5	5.3	5.4
15	24	8.2	9.0	10	24	89	16	28	50	8.5	5.3	5.3
16	11	8.0	10	9.5	20	91	16	26	38	7.9	5.3	5.5
17	7.8	7.6	13	9.0	136	66	16	25	30	7.7	5.1	5.4
18	7.4	7.6	12	8.5	279	54	16	19	26	7.5	5.1	5.4
19	7.6	8.0	12	8.0	391	60	15	19	28	7.5	4.9	5.1
20	7.4	15	9.8	8.0	610	61	14	16	34	6.9	4.9	9.0
21	8.0	15	10	8.0	168	51	15	15	24	6.9	4.9	15
22	7.6	11	17	7.5	498	45	15	14	20	6.6	4.9	7.9
23	7.2	9.4	22	7.0	222	39	14	13	17	6.4	5.1	6.7
24	7.0	9.0	19	7.0	111	33	13	18	16	8.4	4.7	5.8
25	7.0	9.0	15	6.5	89	30	13	74	15	8.1	5.0	6.5
26	7.0	8.7	13	6.5	159	29	13	55	14	7.1	5.0	8.4
27	6.9	8.5	11	6.0	179	27	13	38	12	6.3	5.0	7.3
28	6.6	8.2	10	6.0	108	27	14	29	13	6.6	4.9	6.2
29	8.7	8.7	9.5	6.0	-----	25	13	25	45	7.4	4.8	6.2
30	11	8.7	9.0	6.0	-----	24	12	23	32	7.0	4.8	5.8
31	8.7	-----	9.0	6.0	-----	22	-----	20	-----	7.2	4.8	-----
TOTAL	274.4	271.7	329.3	386.5	4,337.0	1,562	506	991.4	1,160	375.6	164.6	205.6
MEAN	8.95	9.06	10.6	12.5	155	50.4	16.9	32.0	38.7	12.1	5.31	6.85
MAX	24	15	22	59	610	91	27	99	120	43	6.7	15
MIN	5.8	7.6	7.4	6.0	5.5	22	12	9.2	12	6.3	4.7	4.7
CFSM	.17	.18	.21	.25	3.05	.99	.33	.63	.76	.24	.10	.13
IN.	.20	.20	.24	.28	3.18	1.14	.37	.73	.85	.28	.12	.15

CAL YR 1970 TOTAL 10,923.0 MEAN 29.9 MAX 513 MIN 5.8 CFSM .59 IN 8.00
 WTR YR 1971 TOTAL 10,564.1 MEAN 28.9 MAX 610 MIN 4.7 CFSM .57 IN 7.74

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0145	5.71	813	02-22	1615	5.12	646
02-17	2145	4.21	391	02-26	2245	3.66	236
02-20	0445	5.71	813				

WABASH RIVER BASIN

03351000 White River near Nora, Ind.

LOCATION.--Lat 39°54'35", long 86°06'20", in NW 1/4 sec. 20, T. 17 N., R. 4 E., Marion County, on downstream side of center pier of bridge on State Highway 100, 2 miles east of Nora, 14 miles upstream from Fall Creek, and at mile 253.4.

DRAINAGE AREA.--1,219 sq mi.

PERIOD OF RECORD.--October 1929 to current year. Prior to April 1930 monthly discharge only, published in WSP 1305. Prior to October 1948, published as West Fork White River near Nora.

GAGE.--Water-stage recorder. Datum of gage is 710.94 ft above mean sea level (levels by Corps of Engineers). Oct. 26, 1929, to July 29, 1942, at site 200 ft downstream at same datum. Supplemental water-stage recorder 4.5 miles downstream.

AVERAGE DISCHARGE.--42 years, 1,052 cfs (11.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 9,830 cfs Feb. 21 (gage height, 11.63 ft); minimum daily, 139 cfs Oct. 6.
Period of record: Maximum discharge, 32,400 cfs May 19, 1943; maximum gage height, 18.65 ft Apr. 23, 1964; minimum daily discharge, 49 cfs Sept. 17, 1941.
Flood of Mar. 26, 1913, reached a stage of 22.4 ft, from floodmark, determined by State Highway Department of Indiana (discharge, 58,500 cfs).

REMARKS.--Records good except those for January and February, which are fair. Flow slightly regulated by Morse Reservoir. (See sta 03350300.) Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1335: 1930-31, 1934(m), 1936, 1941, 1943, 1945, 1947-48. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	130	433	510	353	180	2,740	625	349	580	345	262	154
2	173	406	515	341	180	2,050	711	341	645	325	234	169
3	175	540	475	345	170	1,660	700	349	900	304	211	205
4	173	766	465	711	1,000	1,320	655	349	906	283	211	245
5	144	680	476	1,290	5,740	1,080	605	337	744	259	211	255
6	139	500	388	1,140	6,200	1,000	580	677	620	238	208	276
7	157	485	315	760	3,190	1,400	545	1,100	560	227	205	341
8	173	428	304	600	1,500	1,670	525	1,800	1,390	224	202	765
9	217	379	304	520	500	1,340	515	2,790	1,010	220	202	560
10	345	388	311	500	640	1,120	495	2,200	738	262	193	389
11	505	410	311	450	660	1,170	465	1,630	580	419	227	308
12	415	388	345	420	760	1,380	446	1,380	1,060	410	250	276
13	374	370	401	390	900	2,070	455	1,240	1,470	428	276	262
14	520	305	433	370	840	2,970	530	1,110	972	353	231	248
15	590	374	415	350	705	2,850	535	888	727	273	208	220
16	500	315	410	330	625	3,370	500	749	605	245	196	211
17	655	301	455	300	945	2,790	480	690	500	231	165	199
18	500	304	475	280	4,220	2,040	460	760	424	220	166	196
19	400	311	480	260	7,090	1,760	428	799	383	217	166	190
20	361	437	475	250	9,200	1,880	410	665	640	224	157	234
21	357	815	437	250	9,340	1,850	406	595	900	211	151	374
22	341	799	480	240	6,910	1,560	410	565	680	199	157	442
23	333	655	665	230	7,990	1,320	397	495	535	190	159	379
24	308	510	755	220	6,250	1,120	388	500	446	262	255	325
25	294	442	744	210	3,110	960	379	1,110	397	308	224	290
26	240	415	600	210	2,780	876	353	1,880	365	308	205	315
27	256	406	535	200	4,640	821	353	1,580	333	269	156	383
28	266	347	485	200	4,420	771	397	1,100	311	254	187	460
29	311	388	451	200	-----	727	426	848	397	266	184	437
30	428	419	401	190	-----	690	370	716	428	273	172	365
31	435	-----	374	180	-----	650	-----	635	-----	273	157	-----
TOTAL	11,200	13,886	14,060	12,490	91,085	49,011	14,524	30,227	20,246	8,525	6,312	9,462
MEAN	361	403	454	403	3,253	1,581	484	975	675	275	204	315
MAX	590	815	755	1,290	9,340	3,370	711	2,790	1,470	428	250	765
MIN	139	301	304	180	170	650	353	337	311	190	151	154
CFSM	.30	.34	.37	.33	2.67	1.30	.40	.80	.55	.23	.17	.26
IN	.34	.42	.43	.38	2.73	1.50	.44	.92	.62	.26	.19	.29

CAL YR 1970 TOTAL 329,010 MEAN 901 MAX 7,540 MIN 139 CFSM .74 IN 10.04
WTR YR 1971 TOTAL 281,028 MEAN 770 MAX 9,340 MIN 139 CFSM .63 IN 8.58

PEAK DISCHARGE (BASE, 7,000 CFS).--Feb. 21 (0100) 9,830 cfs (11.63 ft). Feb. 23 (1900) 8,350 cfs (10.72 ft).

03351310 Crooked Creek at Indianapolis, Ind.

LOCATION.--Lat 39°49'47", long 86°12'22", in NW¼SE¼ sec.16, T.16 N., R.3 E., Marion County, on left bank 150 ft downstream from 42nd Street Bridge in Indianapolis.

DRAINAGE AREA.--17.9 sq mi.

PERIOD OF RECORD.--June 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 711.00 ft above mean sea level (Indiana State Highway Commission bench mark).

EXTREMES.--Current year: Maximum discharge, 660 cfs Feb. 4 (gage height, 5.20 ft); minimum daily, 1.3 cfs Sept. 18.
Period of record: Maximum discharge, 858 cfs Nov. 19, 1970 (gage height, 5.58 ft); minimum daily, 1.3 cfs Sept. 1, 2, 12, 13, 1970, Sept. 18, 1971.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	2.1	2.3	2.5	1.9	23	0.6	3.7	5.5	5.8	2.7	1.7
2	1.5	4.2	2.2	2.5	1.9	27	16	3.7	10	5.4	2.4	1.3
3	1.5	5.0	3.2	6.0	1.8	30	10	3.6	12	4.6	2.4	2.2
4	1.4	3.0	3.6	127	253	17	7.9	3.9	7.1	2.5	2.4	2.0
5	1.4	2.3	2.3	45	124	17	7.1	3.9	5.5	2.3	2.2	1.7
6	1.4	2.0	2.2	25	16	21	6.5	72	4.8	2.3	2.1	19
7	1.4	1.9	2.1	13	8.0	28	5.9	70	5.0	3.1	2.1	5.4
8	1.6	1.9	2.1	7.0	6.0	20	5.4	71	8.4	2.4	2.0	2.1
9	12	2.0	2.2	6.0	4.0	15	5.2	23	6.9	3.3	2.1	1.5
10	6.2	4.0	2.2	5.5	3.0	27	5.0	14	5.7	19	2.1	1.5
11	2.1	2.7	2.4	5.0	4.4	27	4.6	12	5.0	28	5.8	2.2
12	1.9	2.2	7.3	4.5	15	27	4.6	30	16	6.9	2.7	2.3
13	2.3	2.0	5.7	5.0	12	26	6.1	16	8.4	14	2.0	1.5
14	13	2.0	5.0	6.0	6.0	24	6.9	11	5.8	14	3.3	1.4
15	3.1	2.4	4.5	5.5	3.5	39	5.3	11	4.8	6.9	4.2	1.4
16	2.2	2.2	14	4.5	5.0	29	4.0	12	4.7	5.2	2.3	2.3
17	3.2	2.0	7.0	3.7	129	22	4.7	9.7	3.7	3.7	1.9	1.5
18	3.9	2.0	3.5	3.4	56	20	4.3	5.9	3.4	3.3	1.8	1.3
19	3.0	2.0	2.7	3.2	146	26	4.0	5.4	4.6	3.6	1.8	1.6
20	5.6	25	2.5	3.0	111	23	4.0	5.1	3.4	3.3	1.8	2.3
21	5.4	7.0	6.0	2.8	28	22	4.3	4.4	3.7	3.1	1.9	4.6
22	5.0	4.6	10	2.6	235	13	4.2	4.0	2.8	3.1	2.3	2.2
23	2.0	3.3	15	2.5	47	12	3.5	3.9	2.7	3.3	2.0	1.8
24	1.9	2.8	8.0	2.4	21	10	3.7	14	2.5	38	1.8	1.4
25	1.8	2.5	6.0	2.3	16	9.4	3.7	36	2.7	4.4	2.0	9.9
26	1.8	2.5	4.5	2.2	53	8.5	3.7	10	2.7	4.8	1.9	7.8
27	2.1	2.6	4.0	2.1	75	7.7	4.2	7.1	2.4	3.1	2.0	2.6
28	2.1	2.6	3.5	2.1	31	7.7	4.8	5.7	7.3	12	1.9	1.7
29	6.0	2.5	3.0	2.0	-----	7.1	4.7	5.1	2.3	5.8	1.8	3.2
30	3.2	2.5	2.8	2.0	-----	6.5	3.8	4.7	4.4	4.0	1.8	1.7
31	2.3	-----	2.6	1.9	-----	6.0	-----	4.6	-----	3.4	1.8	-----
TOTAL	104.5	105.8	144.4	301.2	1,453.4	532.7	1,69.0	456.4	158.7	224.8	71.3	120.4
MEAN	3.37	3.53	4.66	9.72	51.5	18.8	5.63	15.7	5.24	7.25	2.30	4.01
MAX	13	25	15	120	253	39	16	72	16	38	5.8	29
MIN	1.4	1.9	2.1	1.5	1.8	0.0	3.7	3.6	2.3	2.3	1.8	1.3
CFSM	.19	.20	.26	.54	2.90	1.05	.31	.89	.30	.41	.13	.22
IN.	.22	.22	.30	.63	3.02	1.21	.35	1.01	.33	.47	.15	.25

CAL YR 1970 TOTAL 4,453.3 MEAN 12.2 MAX 337 MIN 1.3 CFSM .68 IN 9.25
WTR YR 1971 TOTAL 3,922.9 MEAN 10.7 MAX 253 MIN 1.3 CFSM .60 IN 8.15

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	1200	5.20	660	02-19	2100	4.56	402
02-17	1845	4.28	301	02-22	0800	4.66	442

03351400 Sugar Creek near Middletown, Ind.

LOCATION.--Lat 40°02'27", long 85°31'30", in NW¼SE¼ sec.5, T.18 N., R.9 E., Henry County, on right bank 90 ft upstream from bridge on County Road 750 North, 1 mile southeast of Middletown.

DRAINAGE AREA.--5.80 sq mi.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 950.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 257 cfs Feb. 19 (gage height, 5.60 ft); maximum gage height, 6.16 ft Feb. 17 (backwater from ice); minimum daily discharge, 0.05 cfs Oct. 19, 23, 24.

Period of record: Maximum discharge, 257 cfs Feb. 19, 1971 (gage height, 5.60 ft); maximum gage height, 6.16 ft Feb. 17, 1971 (backwater from ice); minimum daily discharge, 0.05 cfs Oct. 19, 23, 24, 1970.

REMARKS.--Records good except those for January and February, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.14	.14	.16	.22	.10	7.6	1.3	.53	1.4	.53	.24	.20
2	.14	.18	.14	.22	.10	6.2	1.2	.63	1.5	.44	.22	.20
3	.10	.18	.14	.55	.10	4.7	1.0	.58	1.2	.40	.18	.27
4	.10	.16	.18	24	.10	3.5	.90	.53	1.0	.40	.22	.36
5	.08	.16	.18	7.6	17	2.2	.78	.63	.96	.44	.22	.30
6	.08	.16	.18	3.0	8.0	7.0	.84	18	.84	.48	.16	2.7
7	.08	.14	.16	1.5	5.0	12	.84	23	6.2	.40	.12	5.7
8	.08	.14	.16	1.1	1.5	7.6	.78	32	19	.40	.10	1.1
9	.12	.14	.14	.90	.90	5.2	.73	16	4.7	.44	.10	.58
10	.12	.16	.16	.70	.60	5.7	.58	9.6	2.6	1.0	.10	.36
11	.10	.14	.16	.55	.40	9.6	.58	7.0	1.8	1.5	.10	.30
12	.16	.14	.36	.50	1.2	12	.63	17	22	.68	.12	.27
13	.14	.12	.44	.58	.90	5.7	.78	10	11	.58	.12	.24
14	.22	.14	.36	1.8	.60	9.9	.84	6.0	4.1	.44	.12	.22
15	.18	.14	.30	1.1	.45	14	.73	4.5	2.4	.44	.12	.13
16	.10	.14	.36	.53	.30	11	.73	5.0	1.4	.48	.14	.18
17	.06	.14	.68	.40	40	7.6	.68	8.2	.96	.36	.12	.16
18	.06	.12	.58	.35	33	6.5	.58	4.3	.78	.30	.12	.16
19	.05	.12	.48	.30	91	8.9	.53	3.1	92	.40	.12	.16
20	.08	.36	.40	.30	47	9.2	.53	2.1	34	.33	.14	.78
21	.08	.24	.40	.35	16	7.6	.63	1.7	16	.22	.08	.90
22	.06	.18	1.4	.35	96	5.7	.53	1.4	7.0	.18	.44	.48
23	.05	.18	1.2	.30	22	4.5	.48	1.3	3.9	.18	.36	.30
24	.05	.14	.60	.25	10	3.7	.48	3.3	2.3	3.7	.27	.30
25	.06	.14	.45	.20	9.2	2.7	.44	15	1.7	.73	.24	1.0
26	.06	.14	.35	.18	48	2.4	.40	6.0	1.2	.53	.24	5.0
27	.06	.16	.30	.16	26	2.1	.40	4.1	.96	.63	.24	1.4
28	.12	.18	.25	.14	11	2.1	.73	3.1	.73	.48	.22	.78
29	.20	.18	.25	.12	-----	1.5	.53	2.4	.58	.44	.22	.63
30	.18	.18	.23	.10	-----	1.2	.53	2.1	.58	.48	.22	.48
31	.14	-----	.23	.10	-----	1.2	-----	1.5	-----	.40	.20	-----
TOTAL	3.25	4.84	11.38	48.45	486.45	190.8	20.71	210.60	244.79	18.41	5.61	25.69
MEAN	.10	.16	.37	1.56	17.4	6.15	.69	6.79	8.16	.59	.18	.86
MAX	.22	.36	1.4	24	96	14	1.3	32	92	3.7	.44	5.7
MIN	.05	.12	.14	.10	.10	1.2	.40	.53	.58	.18	.08	.16
CFSM	.02	.03	.06	.27	3.00	1.06	.12	1.17	1.41	.10	.03	.15
IN.	.02	.03	.07	.31	3.12	1.22	.13	1.35	1.57	.12	.04	.16

CAL Y-1970 TOTAL 1,119.36 MEAN 3.07 MAX 66 MIN .05 CFSM .53 IN 7.18
WTR Y-1971 TOTAL 1,270.98 MEAN 3.48 MAX 96 MIN .05 CFSM .60 IN 8.15

PEAK DISCHARGE (BASE, 120 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	----	----	a180	02-22	0700	5.22	206
02-17	----	----	a160	06-19	1100	5.50	243
02-19	1900	5.60	257				

a about

03351500 Fall Creek near Fortville, Ind.

LOCATION.--Lat 39°57'15", long 85°52'05", in NW¼NE¼ sec.5, T.17 N., R.6 E., Hamilton County, on right bank 100 ft downstream from bridge on State Highway 238, 1 mile downstream from Lick Creek and 2 miles northwest of Fortville.

DRAINAGE AREA.--169 sq mi.

PERIOD OF RECORD.--July 1941 to current year.

GAGE.--Water-stage recorder. Datum of gage is 787.43 ft above mean sea level (levels by Indianapolis Water Co.). Prior to June 27, 1942, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--30 years, 160 cfs (12.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,520 cfs Feb. 5 (gage height, 7.42 ft); minimum daily, 23 cfs Oct. 7, 8.

Period of record: Maximum discharge, 8,750 cfs Apr. 21, 1964 (gage height, 9.88 ft); minimum daily, 5.0 cfs Sept. 23, 24, 1941.

Maximum stage known, about 12 ft March 1913, (information by local resident).

REMARKS.--Records good except those for January and February, which are fair.

REVISIONS (WATER YEARS).--WSP 1435: 1949(P). WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	46	46	40	30	329	94	53	70	105	52	26
2	26	46	45	40	30	269	102	53	86	89	46	27
3	25	49	43	48	38	229	95	52	75	73	42	33
4	24	51	46	236	531	189	87	51	67	66	42	32
5	24	48	45	245	2,170	162	81	52	63	61	41	32
6	24	46	42	144	495	167	77	242	60	60	39	43
7	23	45	39	110	240	275	74	273	80	50	37	136
8	23	42	42	90	130	234	70	507	240	52	36	80
9	27	42	41	80	100	179	75	327	151	51	34	51
10	39	48	41	70	85	181	78	215	100	66	34	40
11	33	48	41	60	86	229	74	163	94	81	41	49
12	32	47	52	60	135	253	71	191	359	67	40	56
13	41	47	66	55	236	305	73	201	284	59	33	46
14	59	45	61	60	124	273	84	154	169	52	31	39
15	67	46	56	65	95	317	74	126	124	48	31	34
16	53	45	56	55	80	346	70	110	102	47	31	32
17	46	45	68	50	265	251	67	115	86	45	30	31
18	43	45	70	50	1,100	213	66	105	75	43	29	30
19	41	42	67	45	900	221	60	91	193	42	28	29
20	43	61	61	45	1,800	245	60	86	604	43	27	66
21	46	71	59	45	500	211	60	77	298	41	27	87
22	46	61	81	40	2,000	189	59	73	195	39	31	61
23	43	52	103	40	800	165	57	70	142	40	47	48
24	42	45	89	40	474	147	56	75	115	71	38	42
25	41	49	77	35	339	127	54	144	99	84	33	45
26	40	46	70	35	498	117	53	138	89	67	33	113
27	39	46	55	35	642	110	54	107	80	63	31	97
28	39	46	50	35	455	108	67	92	242	60	29	71
29	49	46	45	35	-----	105	60	83	236	68	28	57
30	53	46	42	30	-----	97	56	75	117	61	27	51
31	49	-----	42	30	-----	92	-----	71	-----	60	27	-----
TOTAL	1,207	1,442	1,741	2,048	14,386	6,335	2,108	4,172	4,695	1,860	1,075	1,584
MEAN	38.5	48.1	56.2	66.1	514	204	70.3	135	157	60.0	34.7	52.8
MAX	67	71	103	245	2,170	346	102	507	604	105	52	136
MIN	23	42	39	30	30	92	53	51	60	39	27	26
CFSM	.23	.28	.33	.39	3.04	1.71	.42	.80	.93	.36	.21	.31
IN.	.27	.32	.38	.45	3.17	1.39	.46	.92	1.03	.41	.24	.35

CAL YR 1970 TOTAL 44,457 MEAN 122 MAX 1,520 MIN 23 CFSM .72 IN 9.79
 WTR YR 1971 TOTAL 42,653 MEAN 117 MAX 2,170 MIN 23 CFSM .69 IN 9.39

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	1330	7.42	2,520	02-20	unknown	7.16	2,260
02-18	0500	5.91	1,400	02-23	unknown	unknown	21,700

a about

WABASH RIVER BASIN

03351700 Geist Reservoir near Oaklandon, Ind.

LOCATION.--Lat 39°54'26", long 85°59'07", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.20, T.17 N., R.5 E., Marion County, in intake structure of reservoir on Fall Creek, 2.6 miles northwest of Oaklandon, 17 miles above mouth.

DRAINAGE AREA.--215 sq mi.

PERIOD OF RECORD.--January 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 755.00 ft above mean sea level.

EXTREMES.--Current year: Maximum contents, 24,060 acre-ft Feb. 20 (elevation, 786.44 ft); minimum, 16,990 acre-ft Nov. 19 (elevation, 782.51 ft).

Period of record: Maximum contents, 27,360 acre-ft May 18, 1943 (elevation, 788.02 ft); minimum contents, 11,230 acre-ft Jan. 5, 1964 (elevation, 778.42 ft).

REMARKS.--Reservoir is formed by earth fill dam. Releases normally controlled by a 36-inch valve. Minimum design capacity is essentially empty at invert on outlet conduit at elevation of 756.75 ft. Capacity at uncontrolled spillway elevation (785 ft) is 21,180 acre-ft. Reservoir is used for low-flow augmentation and recreation. Reservoir filled for first time on March 17, 1943.

COOPERATION.--Record furnished by Indianapolis Water Company.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	783.39	18,360	-
Oct. 31.....	782.76	17,370	-990
Nov. 30.....	782.66	17,220	-150
Dec. 31.....	783.23	18,090	+870
Calendar year 1970.....	-	-	-3,560
Jan. 31.....	784.90	21,000	+2,910
Feb. 28.....	785.58	22,290	+1,290
Mar. 31.....	785.25	21,650	-640
Apr. 30.....	785.18	21,520	-130
May 31.....	785.27	21,690	+170
June 30.....	785.39	21,920	+230
July 31.....	785.05	21,270	-650
Aug. 31.....	784.01	19,410	-1,860
Sept. 30.....	784.00	19,400	-10
Water year 1971	-	-	+1,040

Diversion for municipal supply for city of Indianapolis

Water supply for the city of Indianapolis is from both White River and Fall Creek. Water from White River is diverted below White River near Nora (03351000) into Indianapolis Water Canal at Westfield Boulevard. Water from Fall Creek is diverted below Fall Creek at Millersville (03352500) at pumping station at Keystone Avenue. The return flow of the diversion is made below White River at Indianapolis (03353000). Major return flow is made at mouth of Eagle Creek and minor return flow is made at Southport Road.

Diversion, monthly and yearly means in cfs-days

1970				1971									
Oct.	Nov.	Dec.	Cal. year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Water year
133	126	127	138	125	126	129	135	136	161	156	153	149	138

03352200 Mud Creek at Indianapolis, Ind.

LOCATION.--Lat 39°53'30", long 86°00'57", in SE¼NE¼ sec.25, T.17 N., R.4 E., Marion County, on left bank at downstream side of Lantern Road Bridge at Indianapolis, 0.2 mile northeast of intersection of 75th Street and Sargent Road, 1.5 miles upstream from mouth, and 2.0 miles southeast of Castleton.

DRAINAGE AREA.--42.4 sq mi.

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 752.99 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--13 years, 33.9 cfs (10.86 inches per year).

EXTREMES.--Current year: Maximum discharge, 762 cfs Feb. 5 (gage height, 6.87 ft); minimum daily, 3.1 cfs Aug. 21, 27, Sept. 16, 17.

Period of record: Maximum discharge, 2,010 cfs Apr. 21, 1964 (gage height, 8.37 ft); minimum daily, 0.2 cfs several days in September 1963, 1966.

REMARKS.--Records good except those for September, which are poor.

REVISIONS.--WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.6	7.2	8.6	5.0	4.6	94	20	8.5	17	39	6.0	3.5
2	6.2	7.8	8.3	5.0	4.5	69	24	8.5	49	39	6.0	3.7
3	5.7	11	7.8	6.0	4.5	54	21	9.3	49	25	5.5	4.3
4	4.9	10	8.8	112	180	40	19	8.0	33	19	5.5	3.0
5	3.9	9.7	8.3	75	501	35	19	7.8	26	16	5.2	4.0
6	5.2	9.1	6.8	45	128	37	17	128	22	14	5.2	7.0
7	5.4	8.9	6.2	30	47	58	17	99	32	12	5.0	9.0
8	4.8	8.1	5.4	20	30	49	16	183	334	11	5.0	7.0
9	6.6	7.9	6.6	15	25	37	15	96	122	9.9	4.8	5.3
10	6.7	9.8	6.4	12	20	39	14	53	60	13	4.6	4.0
11	5.2	9.1	6.2	10	15	45	13	39	43	34	4.7	4.0
12	5.3	8.9	9.6	9.0	20	55	13	49	235	23	4.6	3.7
13	6.6	8.8	13	8.0	35	78	14	39	162	15	4.0	3.7
14	14	9.1	11	8.5	20	69	15	31	86	12	3.8	3.6
15	12	9.8	10	9.5	15	101	13	26	51	10	3.8	3.3
16	11	9.7	13	8.5	10	111	13	23	38	9.1	3.8	3.1
17	7.1	8.1	20	8.0	84	65	13	20	30	8.3	3.7	3.1
18	6.6	7.0	18	7.5	274	48	12	18	25	7.8	3.5	4.7
19	5.6	7.0	17	7.0	206	59	11	16	21	7.5	3.4	3.5
20	6.0	23	14	6.5	478	66	11	14	20	7.0	3.3	4.0
21	6.7	24	14	6.5	250	51	11	13	18	6.8	3.1	4.0
22	6.3	19	22	6.0	428	43	10	11	16	6.4	3.8	10
23	6.2	14	27	6.0	331	37	9.7	11	14	6.2	3.8	5.5
24	5.9	13	23	5.5	141	32	9.6	15	13	12	3.3	4.5
25	5.4	11	16	5.5	95	29	9.2	78	12	8.3	3.3	4.0
26	5.7	12	12	5.5	207	27	8.7	53	12	6.8	3.3	4.5
27	5.2	12	9.0	5.2	272	25	9.0	35	11	6.0	3.1	6.0
28	5.5	10	7.5	5.0	151	25	12	27	9.6	6.0	3.5	4.5
29	8.5	10	6.5	5.0	-----	23	5.9	23	126	7.0	3.5	4.2
30	9.1	8.6	5.5	4.8	-----	21	8.8	20	73	6.5	3.5	4.0
31	7.9	-----	5.5	4.7	-----	19	-----	17	-----	7.0	3.5	-----
TOTAL	207.8	323.6	353.0	467.2	3,976.6	1,541	406.9	1,178.1	1,759.6	410.6	129.1	144.4
MEAN	6.70	10.8	11.4	15.1	142	49.7	13.6	38.0	58.7	13.2	4.16	4.81
MAX	14	24	27	112	501	111	24	183	334	39	6.0	10
MIN	3.9	7.0	5.4	4.7	4.5	19	8.7	7.8	9.6	6.0	3.1	3.1
CFSM	.16	.25	.27	.36	3.35	1.17	.32	.90	1.38	.31	.10	.11
IN.	.18	.28	.31	.41	3.49	1.35	.36	1.03	1.54	.36	.11	.13

CAL YR 1970 TOTAL 9,727.9 MEAN 26.7 MAX 460 MIN 3.5 CFSM .63 IN 8.53
WTR YR 1971 TOTAL 10,897.9 MEAN 29.9 MAX 501 MIN 3.1 CFSM .71 IN 9.56

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0245	6.87	762	02-22	1545	6.29	507
02-20	0945	6.47	568				

LOCATION.--Lat 39°51'07", long 86°05'15", in NE¼NE¼ sec.9, T.16 N., R.4 E., Marion County, on right bank at downstream side of Emerson Way Bridge at Millersville, 8.6 miles upstream from mouth.

PERIOD OF RECORD.--October 1929 to current year. Monthly discharges only for some periods, published in WSP 1305. Twice-daily chain gage readings at former site and datum from July 1925 to September 1926 are available in the district office.

GAGE.--Water-stage recorder. Datum of gage is 722.16 ft above mean sea level. Prior to Oct. 21, 1961, water-stage recorder at site 500 ft downstream at same datum.

EXTREMES.--Current year: Maximum discharge, 3,510 cfs Feb. 20 (gage height, 8.76 ft); minimum daily, 50 cfs Jan. 23 to Feb. 1.
Period of record: Maximum discharge, 12,900 cfs May 28, 1956 (gage height, 13.53 ft); minimum daily, 7.8 cfs Sept. 28, 1941.
Maximum stage known, 16.3 ft Mar. 26, 1913, from floodmarks (discharge, 22,000 cfs by slope-area measurement).

REVISIONS (WATER YEARS).--WSP 1335: 1930-31, 1933, 1936-38, 1942-43. WRD Ind. 1968: Drainage area.

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	71	83	73	65	50	709	165	81	125	255	102	63
2	71	96	73	60	52	556	194	75	392	200	91	102
3	77	96	81	81	65	462	176	77	362	129	85	86
4	65	92	167	472	920	355	170	71	223	93	86	85
5	65	38	93	260	2,260	302	191	73	167	76	97	73
6	65	85	87	147	1,880	311	199	486	130	77	80	118
7	65	85	82	120	744	472	90	646	141	66	76	109
8	66	82	75	100	409	430	98	878	792	56	75	85
9	101	93	74	85	263	365	106	753	568	58	74	76
10	85	92	71	80	235	338	116	531	332	94	75	77
11	69	87	73	70	157	383	108	398	228	253	86	151
12	73	86	94	76	223	477	105	526	716	153	71	169
13	73	83	101	76	347	476	117	445	764	97	68	107
14	151	35	53	91	253	476	151	355	512	81	69	87
15	102	86	91	83	185	504	130	288	341	69	70	93
16	86	82	121	69	145	596	118	238	240	74	67	73
17	76	74	147	58	399	500	114	225	173	69	62	75
18	73	70	137	56	1,440	402	119	198	135	71	66	73
19	70	71	124	54	1,710	383	100	175	121	59	66	75
20	81	129	114	52	3,260	427	91	159	356	64	66	165
21	79	121	114	52	2,480	402	99	143	497	56	65	92
22	76	105	157	52	2,190	362	96	132	347	59	74	92
23	79	42	165	50	2,400	305	83	111	728	60	67	86
24	75	77	137	50	1,260	270	76	129	163	243	66	81
25	74	75	121	50	736	250	71	268	129	155	67	97
26	74	76	100	50	888	233	76	270	116	143	66	107
27	73	76	90	50	1,370	195	94	233	101	124	66	96
28	77	75	80	50	1,020	185	106	185	87	135	65	99
29	101	75	70	50	-----	140	99	149	668	163	64	86
30	96	75	70	50	-----	171	97	122	455	135	63	83
31	89	-----	65	50	-----	157	-----	109	-----	119	62	-----
TOTAL	2,473	2,582	3,093	2,709	27,341	11,514	3,555	8,529	9,609	3,486	2,257	2,341
MEAN	79.8	46.1	99.8	87.4	976	371	119	275	320	112	72.8	94.7
MAX	151	129	167	472	3,260	704	199	878	792	255	102	169
MIN	65	70	65	50	50	157	71	71	87	56	62	63

CAL YR 1970	TOTAL 86,455	MEAN 238	MAX 2,490	MIN 65
WTR YR 1971	TOTAL 74,989	MEAN 219	MAX 3,260	MIN 50

03353000 White River at Indianapolis, Ind.

LOCATION.--Lat 39°45'05", long 86°10'30", in NW¼NW¼ sec. 14, T. 15 N., R. 3 E., Marion County, on downstream side of second pier from right bank of Morris Street Bridge in Indianapolis, 2.5 miles downstream from Fall Creek, and at mile 235.8.

DRAINAGE AREA.--1,635 sq mi.

PERIOD OF RECORD.--March 1904 to July 1906 and April 1930 to current year. Gage-height record published in reports of U.S. Weather Bureau for site 1.1 miles upstream Feb. 8, 1911, to Mar. 25, 1913, and at site 2.3 miles upstream since Oct. 16, 1913. Prior to October 1948, published as West Fork White River at Indianapolis.

GAGE.--Water-stage recorder. Datum of gage is 662.26 ft above mean sea level. March 1904 to July 1906, nonrecording gage at railroad bridge 0.8 mile upstream at datum approximately 2.9 ft higher. April 1930 to July 20, 1931, nonrecording gage at Indianapolis sanitation plant 2.5 miles downstream at datum 660 ft lower. July 21, 1931, to Mar. 2, 1932, nonrecording gage at present site at datum 660 ft lower.

AVERAGE DISCHARGE.--42 years (1904-5, 1930-71), 1,341 cfs (11.14 inches per year) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 13,800 cfs Feb. 20 (gage height, 12.30 ft); minimum daily, 136 cfs Oct. 7.

Period of record: Maximum discharge, 37,200 cfs May 18, 1943; maximum gage height, 21.57 ft Jan. 16, 1937; minimum daily discharge, 8.0 cfs Sept. 29, 1941.

Flood of Mar. 26, 1913, reached a stage of 30.0 ft, from floodmarks determined by Indianapolis Water Co. (discharge, 70,000 cfs).

REMARKS.--Records fair. Natural flow affected by regulation of Morse Reservoir (see sta 03350300) and Geist Reservoir (see sta 03351700), and by diversion of municipal water supply by the Indianapolis Water Co. (see pg.).

REVISIONS (WATER YEARS).--WSP 1335: 1932-33, 1937, 1939-41. WSP 1505: 1938. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	172	440	477	379	202	4,010	770	358	820	513	273	162
2	170	532	504	361	190	2,910	951	319	1,090	405	242	170
3	154	499	612	482	175	2,340	841	329	1,510	332	205	230
4	157	700	582	1,930	3,190	1,850	791	321	1,440	296	153	270
5	164	707	477	1,490	7,460	1,470	721	325	1,140	266	159	230
6	149	576	406	1,430	8,490	1,450	677	984	888	246	150	650
7	136	493	370	833	4,950	1,750	664	1,980	791	209	175	610
8	183	435	315	665	2,230	2,160	547	2,640	2,150	189	183	690
9	594	415	308	600	1,180	1,810	532	3,410	2,080	196	185	716
10	466	466	308	540	728	1,450	532	2,960	1,300	379	177	453
11	425	401	322	520	763	1,450	497	2,170	947	721	315	394
12	504	388	515	493	936	1,720	475	2,580	1,830	532	235	434
13	440	365	415	482	1,020	2,300	522	1,720	2,560	430	248	350
14	552	361	450	482	976	3,270	663	1,500	1,770	383	242	310
15	856	392	420	445	812	3,680	623	1,230	1,190	353	322	252
16	584	341	554	401	644	4,110	557	992	892	353	213	258
17	700	294	606	370	1,520	3,750	527	912	645	245	193	238
18	521	287	594	337	4,840	2,780	497	912	432	225	172	221
19	430	308	554	290	9,350	2,460	463	1,050	524	269	183	237
20	471	798	548	273	12,500	2,460	406	848	555	213	164	898
21	388	735	568	270	12,600	2,430	401	728	1,250	205	151	511
22	357	896	763	260	11,300	2,000	488	686	953	188	193	493
23	341	707	714	260	10,800	1,640	398	606	701	190	205	410
24	315	559	812	260	8,830	1,350	356	728	521	1,040	239	351
25	290	477	848	260	4,410	1,170	351	1,280	424	440	290	454
26	283	406	749	262	3,900	1,000	325	2,070	363	420	216	528
27	252	410	582	229	5,520	944	401	2,030	332	341	193	450
28	304	397	554	222	6,070	833	484	1,460	307	460	185	491
29	488	406	471	222	-----	826	417	1,140	585	445	156	482
30	374	374	430	239	-----	770	393	936	787	349	210	374
31	460	-----	401	205	-----	686	-----	815	-----	315	167	-----
TOTAL	12,480	14,555	16,289	15,492	126,386	62,829	16,270	40,018	30,777	11,148	6,554	12,337
MEAN	403	486	525	500	4,514	2,027	542	1,251	1,026	360	211	413
MAX	984	896	848	1,930	12,900	4,110	951	3,410	2,560	1,040	322	898
MIN	136	287	308	205	175	696	325	318	307	188	151	162
CFSM	.25	.30	.32	.31	2.76	1.24	.33	.79	.63	.22	.13	.25
IN.	.29	.33	.37	.35	2.88	1.43	.37	.91	.70	.25	.15	.28

CAL YR 1970 TOTAL 401,361 MEAN 1,100 MAX 10,200 MIN 116 CFSM .67 IN 9.13
WTR YR 1971 TOTAL 365,195 MEAN 1,001 MAX 12,900 MIN 136 CFSM .61 IN 8.31

PEAK DISCHARGE (BASE, 8,500 CFS).--Feb. 6 (0515) 9,130 cfs (9.99 ft). Feb. 20 (2000) 13,800 cfs (12.30 ft).

03353120 Pleasant Run at Arlington Avenue at Indianapolis, Ind.

LOCATION.--Lat 39°46'33", long 86°03'50", in SW 1/4 sec. 2, T.15 N., R.4 E., Marion County, on right bank 46 ft upstream from Arlington Avenue Bridge in Indianapolis, and 0.5 mile downstream from small left-bank tributary.

DRAINAGE AREA.--7.58 sq mi.

PERIOD OF RECORD.--December 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--11 years (1960-71), 6.34 cfs (11.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 785 cfs Feb. 4 (gage height, 7.06 ft); minimum daily, 0.27 cfs Aug. 28.
Period of record: Maximum discharge, 1,610 cfs Mar. 4, 1963 (gage height, 10.32 ft); no flow at times some years.
Flood in May 1956 reached a stage of 16.0 ft, from information by local resident.

REMARKS.--Records good.

REVISIONS.--WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.52	1.3	1.5	1.0	.80	4.3	7.3	.95	7.8	1.5	2.4	.47
2	.61	9.1	1.4	1.0	.80	3.4	3.2	.91	9.5	1.2	2.0	58
3	.52	3.3	13	30	.80	2.7	1.4	.90	2.0	.99	1.8	12
4	.52	1.8	5.5	110	182	1.9	1.2	.89	1.4	.98	2.1	5.1
5	.70	1.8	2.0	8.7	35	1.7	1.4	1.1	1.0	1.4	1.6	1.3
6	.70	1.4	1.5	4.0	5.0	14	1.3	12	1.0	1.2	1.6	9.9
7	.90	1.4	1.4	2.0	3.5	8.1	1.2	34	3.6	1.2	1.3	2.6
8	1.4	1.2	1.5	1.7	2.0	4.6	1.3	8.2	2.0	1.2	1.2	1.3
9	20	1.3	1.5	1.6	1.7	3.5	1.3	2.7	1.2	1.3	1.2	.89
10	4.6	5.6	1.4	1.5	1.6	12	1.2	1.8	1.2	12	1.4	.76
11	1.3	1.5	2.0	1.4	1.8	6.8	1.1	10	6.2	4.1	7.6	1.4
12	5.5	1.3	15	1.4	20	5.5	1.2	37	15	1.6	1.3	.81
13	3.6	1.4	3.1	2.5	7.0	3.8	4.9	5.0	2.6	1.3	1.2	1.2
14	19	3.8	2.0	4.5	2.0	3.2	1.5	2.7	1.5	1.1	14	.73
15	2.5	1.7	1.7	2.0	1.8	14	.69	1.8	1.2	3.0	6.2	.64
16	1.5	1.5	14	1.8	3.0	4.6	.44	1.5	1.2	1.9	1.2	3.6
17	1.3	1.4	6.0	1.6	63	2.9	.42	1.5	1.2	1.2	1.0	1.1
18	1.3	1.4	3.0	1.4	14	2.4	.40	1.3	1.0	1.2	.77	.71
19	1.0	27	2.2	1.3	119	11	.40	1.2	5.3	2.0	.69	3.4
20	5.6	3.8	1.7	1.2	22	5.3	.44	1.2	1.4	1.2	.51	42
21	2.0	1.9	7.0	1.2	7.3	3.4	.75	1.0	4.0	1.3	.41	3.5
22	1.5	2.0	18	1.1	142	2.5	.86	.87	1.4	1.4	.34	1.6
23	1.3	1.6	4.5	1.0	10	2.0	.97	.85	1.0	2.2	.31	1.2
24	1.3	1.5	2.5	1.0	5.9	1.6	.95	16	1.2	70	.37	1.0
25	1.0	1.6	1.8	.95	4.9	1.5	.88	7.8	1.5	4.8	1.1	16
26	1.4	3.0	1.5	.90	41	1.5	.89	1.9	1.1	5.3	.50	5.3
27	1.3	1.8	1.3	.90	15	1.3	5.4	1.4	1.0	2.5	.35	2.0
28	6.2	1.4	1.2	.85	6.0	1.5	2.8	1.4	8.1	38	.27	1.4
29	13	2.8	1.1	.85	-----	1.1	1.3	1.3	4.8	7.5	.30	1.3
30	2.2	1.6	1.1	.82	-----	1.0	1.1	1.1	1.9	10	.48	1.1
31	1.6	-----	1.0	.82	-----	1.1	-----	.91	-----	3.8	.44	-----
TOTAL	106.27	92.2	122.8	190.99	718.90	134.2	48.23	161.18	93.3	188.37	55.64	182.31
MEAN	3.43	3.07	3.96	6.16	25.7	4.33	1.61	5.20	3.11	6.08	1.80	6.08
MAX	20	27	18	110	182	14	7.3	37	15	70	14	58
MIN	.52	1.2	1.0	.82	.80	1.0	.40	.85	1.0	.98	.27	.47
CFSM	.45	.41	.52	.81	3.35	.57	.21	.69	.41	.80	.24	.80
I4.	.52	.45	.60	.94	3.53	.66	.24	.79	.46	.92	.27	.89

CAL YR 1970 TOTAL 1,652.31 MEAN 4.53 MAX 213 MIN .13 CFSM .60 IN 8.11
WTR YR 1971 TOTAL 2,094.64 MEAN 5.74 MAX 182 MIN .27 CFSM .76 IN 10.28

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0100	5.92	502	02-22	0530	6.38	615
02-04	1230	7.06	785	07-24	0700	5.83	498
02-19	1745	6.57	662	09-02	1330	6.51	642

03353160 Pleasant Run at Brookville Road at Indianapolis, Ind.

LOCATION.--Lat 39°45'52", long 86°05'43", in NE¼NW¼ sec.9, T.15 N., R.4 E., Marion County, on right bank at downstream side of Brookville Road Bridge in Indianapolis, and 2.2 miles downstream from Arlington Avenue.

DRAINAGE AREA.--10.1 sq mi.

PERIOD OF RECORD.--November 1959 to current year.

GAGE.--Water-stage recorder. Datum of gage is 752.00 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--11 years (1960-71), 8.94 cfs (12.02 inches per year).

EXTREMES.--Current year: Maximum discharge, 958 cfs Feb. 4 (gage height, 6.48 ft); minimum daily, 0.06 cfs Aug. 29.
Period of record: Maximum discharge, 2,010 cfs Mar. 4, 1963 (gage height, 9.22 ft); no flow at times during most years.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1909: 1960. WRD Ind, 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.46	1.0	2.2	1.4	1.1	5.1	6.2	.90	5.9	1.9	1.7	.40
2	.46	9.7	2.2	1.4	1.1	3.8	3.7	.75	9.1	1.4	.99	71
3	.39	3.4	14	43	1.1	3.0	1.7	.72	2.2	1.1	.95	13
4	.27	2.4	6.6	130	335	2.5	1.4	.68	1.6	1.2	1.1	5.7
5	.27	2.2	2.9	9.7	150	2.3	1.5	.79	1.4	1.3	.82	2.1
6	.27	1.9	2.2	5.0	11	16	1.5	10	1.3	1.5	.70	11
7	.16	1.7	2.2	2.5	7.0	9.1	1.4	31	4.2	1.4	.57	3.4
8	1.5	1.5	2.2	2.3	4.0	5.1	1.4	7.6	2.7	1.2	.46	1.9
9	31	2.4	2.2	2.2	3.0	3.7	1.3	3.0	1.4	1.3	.74	1.2
10	3.8	5.7	2.2	2.0	2.5	12	1.3	2.4	1.3	14	2.3	1.1
11	1.0	2.2	2.7	1.9	3.0	7.3	1.1	15	5.5	4.2	11	2.0
12	7.0	2.1	14	1.9	35	6.4	1.1	32	16	1.5	1.7	1.3
13	3.0	1.9	3.6	3.0	20	4.7	4.6	3.7	2.9	1.2	.68	1.4
14	33	2.9	2.9	6.0	6.0	4.0	2.1	2.1	2.0	.99	10	1.0
15	2.2	4.0	2.5	3.0	2.5	17	.96	1.5	1.7	4.8	6.9	.83
16	1.2	2.4	11	2.5	7.0	5.8	.74	1.3	1.5	2.4	1.1	5.5
17	1.2	2.2	6.0	2.2	102	3.7	.67	1.3	1.6	.79	.54	1.6
18	1.4	2.9	3.4	2.0	23	3.0	.68	1.1	1.4	.68	.51	1.2
19	1.4	4.0	2.9	1.9	128	10	.46	1.1	16	1.8	.57	5.1
20	5.7	36	2.5	1.8	26	5.1	.57	1.1	2.1	.76	.42	52
21	1.9	4.5	6.3	1.7	9.7	3.4	.75	.92	4.4	.72	.41	4.3
22	1.2	3.4	16	1.6	173	2.8	.78	.93	2.0	.63	.22	2.3
23	1.1	3.2	4.2	1.5	13	2.4	.83	.92	1.6	1.6	.15	1.6
24	1.0	3.2	3.0	1.4	7.3	2.2	.99	14	1.4	84	.15	1.4
25	1.0	3.4	2.5	1.4	6.0	1.9	.85	7.4	1.8	3.4	1.3	20
26	1.0	4.5	2.1	1.3	42	1.9	.84	1.7	1.4	3.9	.58	6.9
27	.79	3.8	1.8	1.3	18	1.6	4.0	1.2	1.2	1.6	.22	2.9
28	5.7	3.2	1.7	1.2	7.3	2.0	2.5	1.3	7.6	47	.18	2.3
29	10	4.8	1.6	1.2	-----	2.5	1.2	1.2	5.6	6.0	.06	2.2
30	2.1	3.2	1.5	1.2	-----	2.6	1.0	1.0	2.5	8.3	.20	2.1
31	1.2	-----	1.4	1.1	-----	2.0	-----	1.0	-----	2.9	.34	-----
TOTAL	122.67	129.7	132.5	240.6	1,144.6	154.9	48.12	149.61	111.3	205.47	47.56	228.73
MEAN	3.96	4.32	4.27	7.76	40.9	5.00	1.60	4.83	3.71	6.63	1.53	7.62
MAX	33	36	16	130	335	17	6.2	32	16	84	11	71
MIN	.16	1.0	1.4	1.1	1.1	1.6	.46	.68	1.2	.63	.06	.40
CFSM	.39	.43	.42	.77	4.05	.50	.16	.48	.37	.66	.15	.75
IN.	.45	.48	.49	.89	4.22	.57	.18	.55	.41	.76	.18	.84

CAL YR 1970 TOTAL 2,459.49 MEAN 6.74 MAX 253 MIN .16 CFSM .67 IN 9.06
WTR YR 1971 TOTAL 2,715.76 MEAN 7.44 MAX 335 MIN .06 CFSM .74 IN 10.00

PEAK DISCHARGE (BASE, 520 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0145	5.24	577	02-22	0530	5.67	691
02-04	1245	6.48	958	07-24	0730	5.21	559
02-19	1800	5.58	664	09-02	1400	5.49	640

WABASH RIVER BASIN

03353180 Bean Creek at Indianapolis, Ind.

LOCATION.--Lat 39°43'45", long 86°07'14", in NW¼SW¼ sec.20, T.15 N., R.4 E., Marion County, on left bank, 80 ft upstream from Keystone Avenue Bridge and west edge of Sarah Shank Golf Course in Indianapolis.

DRAINAGE AREA.--4.40 sq mi.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 735.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 358 cfs Feb. 4 (gage height, 5.91 ft); minimum daily, 0.75 cfs Feb. 2.
Period of record: Maximum discharge, 358 cfs Feb. 4, 1971 (gage height, 5.91 ft); minimum daily, 0.75 cfs Feb. 2, 1971.

REMARKS.--Records good except those for January and February, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.0	1.7	2.6	.85	.80	7.1	8.6	2.3	4.4	4.4	1.6	2.2
2	2.1	5.7	2.6	.85	.75	6.3	4.6	2.1	3.8	4.4	2.0	15
3	2.0	1.9	9.6	2.5	20	5.1	3.3	2.3	3.4	3.8	2.4	3.5
4	1.8	1.9	2.7	35	135	4.7	3.0	2.9	3.8	3.1	2.4	2.3
5	2.0	1.9	1.8	5.0	13	4.4	3.1	3.7	3.4	3.4	2.4	1.6
6	2.6	2.0	1.6	3.0	2.5	13	3.7	11	3.4	3.4	2.4	4.9
7	2.5	1.8	1.5	2.3	2.0	7.1	3.3	18	3.8	3.8	2.2	2.1
8	3.9	1.6	1.8	2.0	1.8	4.7	3.2	5.0	5.1	4.1	1.9	1.8
9	15	3.1	1.8	1.8	1.6	4.4	2.8	2.9	3.1	4.4	2.0	1.8
10	2.8	4.1	1.8	1.5	1.5	8.5	2.2	2.5	3.1	9.5	2.4	1.7
11	1.5	2.3	2.0	1.6	3.0	6.7	2.1	6.4	5.5	4.4	4.2	2.0
12	4.9	2.2	7.1	1.8	11	6.3	2.3	22	9.5	2.4	1.9	1.5
13	2.6	2.2	1.7	2.0	6.0	4.7	7.1	5.8	3.1	2.6	1.8	1.6
14	17	3.0	1.6	1.8	3.5	4.4	3.5	4.2	2.8	3.1	1.9	1.8
15	2.4	2.6	1.8	1.6	2.0	11	2.9	3.3	3.4	5.1	1.8	1.8
16	2.0	1.9	7.8	1.4	7.0	6.1	2.9	2.6	3.4	3.8	1.7	1.9
17	1.8	2.4	3.1	1.3	30	5.2	2.5	2.6	3.4	2.8	2.0	1.9
18	1.4	2.6	2.3	1.2	4.3	5.2	2.4	2.8	3.4	1.9	2.2	1.8
19	1.5	3.2	1.9	1.2	38	9.4	2.5	2.8	9.0	4.1	2.2	2.0
20	5.1	11	1.5	1.1	14	6.1	2.8	2.8	2.8	1.9	2.3	16
21	1.9	2.0	3.5	1.0	11	4.5	2.9	2.7	4.4	1.8	2.1	2.6
22	1.8	1.8	8.3	.95	61	4.3	3.0	2.4	3.1	1.8	1.7	2.6
23	1.7	2.4	2.1	.95	12	4.7	2.9	2.3	3.1	2.6	1.9	2.4
24	1.9	3.1	1.6	.90	9.0	4.5	2.6	10	3.1	22	2.2	2.4
25	1.7	2.8	1.4	.90	8.0	4.6	2.3	5.9	3.8	2.8	5.4	10
26	1.5	2.4	1.2	.85	26	4.6	2.3	3.8	3.1	2.8	2.0	3.7
27	2.2	1.8	1.2	.85	15	4.1	5.0	3.8	2.4	2.4	1.9	2.4
28	5.4	1.5	1.1	.80	7.5	3.8	3.5	3.8	4.7	13	1.7	2.6
29	6.6	2.6	1.0	.80	-----	3.7	3.0	3.1	4.4	2.8	1.5	2.4
30	2.2	2.2	.90	.80	-----	4.5	2.7	2.8	4.4	3.4	1.8	2.6
31	1.9	-----	.90	.80	-----	4.4	-----	2.8	-----	2.0	2.2	-----
TOTAL	105.7	81.7	81.80	79.40	447.25	178.1	99.0	151.4	120.1	133.8	68.1	102.9
MEAN	3.41	2.72	2.64	2.56	16.0	5.75	3.30	4.88	4.00	4.32	2.20	3.43
MAX	17	11	9.6	35	135	13	8.6	22	9.5	22	5.4	16
MIN	1.4	1.5	.90	.80	.75	3.7	2.1	2.1	2.4	1.8	1.5	1.5
CFSM	.78	.62	.60	.58	3.64	1.31	.75	1.11	.91	.98	.50	.78
IN.	.89	.69	.69	.67	3.78	1.51	.84	1.28	1.02	1.13	.58	.87

WTR YR 1971 TOTAL 1,649.25 MEAN 4.52 MAX 135 MIN .75 CFSM 1.03 IN 13.94

PEAK DISCHARGE (BASE, 80 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-14	0245	3.56	85	02-19	1645	4.58	185
01-04	0145	3.92	118	02-22	0430	4.72	200
02-04	1300	5.91	358	05-12	0030	3.74	100
02-17	unknown	unknown	1100	07-24	0800	3.54	83

a about

03353200 Eagle Creek at Zionsville, Ind.

LOCATION.--Lat 39°56'56", long 86°15'22", in SW¼ sec. 1, T.17 N., R.2 E., Boone County, on downstream side of second pier from right bank of bridge on State Highway 334 at Zionsville, and 200 ft upstream from Long Branch.

DRAINAGE AREA.--103 sq mi.

PERIOD OF RECORD.--October 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 816.85 ft above mean sea level. Prior to Oct. 9, 1957, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--14 years, 89.6 cfs (11.81 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,000 cfs Feb. 22 (gage height, 7.85 ft); no flow Oct. 7, 8.

Period of record: Maximum discharge, 12,400 cfs Apr. 20, 1964 (gage height, 14.64 ft); no flow at times during 1959, 1963-68, 1970, 1971.

Flood of June 28, 1957, reached a stage of 19.20 ft, from floodmark.

REMARKS.--Records fair except those for January and February, which are poor. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS.--WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.0	29	29	12	4.5	144	48	14	40	11	2.8	.63
2	.92	29	30	12	4.5	113	62	13	183	11	2.0	.57
3	.57	55	25	21	4.5	89	56	13	546	7.5	1.7	.84
4	.34	58	25	122	100	65	48	12	201	6.5	1.6	1.0
5	.16	39	22	109	900	57	44	12	113	6.5	1.6	1.7
6	.06	33	16	35	250	102	41	44	82	6.5	1.5	1.7
7	0	29	13	27	150	198	39	51	133	6.5	1.2	1.7
8	0	24	12	22	70	113	37	111	638	5.3	1.2	1.8
9	.78	21	13	20	35	78	35	72	189	8.0	1.5	1.5
10	5.7	21	13	18	25	86	32	51	106	132	1.5	1.0
11	8.0	22	13	16	15	106	28	43	84	77	11	.92
12	5.3	18	16	15	30	125	28	51	512	30	8.0	.84
13	4.3	18	22	13	25	240	30	46	231	16	5.0	.84
14	7.0	17	22	12	20	198	34	37	144	9.2	3.0	.63
15	27	18	19	11	15	336	28	30	102	7.0	2.5	.47
16	23	17	21	10	12	259	27	28	73	5.3	3.2	.43
17	18	17	46	9.5	350	152	27	26	58	5.0	3.5	.34
18	14	16	47	8.5	250	118	25	24	49	4.3	2.5	.37
19	13	16	44	8.0	400	192	21	23	44	4.0	1.9	.31
20	13	72	36	7.5	300	201	21	22	40	3.5	1.7	1.7
21	13	109	32	7.5	230	147	22	18	39	3.0	1.5	4.3
22	13	70	45	8.0	1,200	113	22	16	36	2.5	1.6	3.0
23	13	51	75	9.0	364	86	18	15	29	2.5	1.4	1.9
24	12	46	60	9.0	160	70	18	55	26	4.6	1.2	1.6
25	11	32	30	8.0	142	60	16	438	26	6.5	1.2	2.0
26	9.9	29	22	7.0	390	58	15	204	24	4.6	1.1	4.0
27	9.2	28	18	6.0	558	55	16	111	21	3.2	.52	8.0
28	9.9	26	15	5.5	216	55	26	75	16	3.5	.84	6.1
29	17	22	13	5.0	-----	49	19	58	14	4.0	.76	5.3
30	35	25	12	4.5	-----	44	16	50	13	4.3	.65	4.0
31	34	-----	12	4.5	-----	39	-----	44	-----	3.7	.63	-----
TOTAL	315.13	1,007	818	582.5	6,220.5	3,748	899	1,807	3,812	404.5	70.74	59.39
MEAN	10.3	32.6	26.4	18.8	222	121	30.0	58.3	127	13.0	2.28	1.98
MAX	35	109	75	122	1,200	336	62	438	638	132	11	8.0
MIN	0	16	12	4.5	4.5	39	15	12	13	2.5	.63	.31
CFSM	.10	.33	.26	.18	2.16	1.17	.29	.57	1.23	.13	.02	.32
IN.	.12	.36	.30	.21	2.25	1.35	.32	.65	1.38	.15	.03	.02

CAL YR 1970 TOTAL 20,322.02 MEAN 55.7 MAX 1,470 MIN 0 CFSM .54 IN 7.34
WTR YR 1971 TOTAL 19,747.76 MEAN 54.1 MAX 1,200 MIN 0 CFSM .53 IN 7.13

PEAK DISCHARGE (BASE, 1,500 CFS).--Feb. 5 (unknown) at 1,600 cfs (unknown). Feb. 22 (1100) 2,000 cfs (7.85 ft).

a about

03353450 Eagle Creek Reservoir near Indianapolis, Ind.

LOCATION.--Lat 39°49'20", long 86°18'11", in NW 1/4 sec. 22, T.16 N., R.2 E., Marion County, in outlet structure of reservoir on Eagle Creek, 800 ft upstream from Interstate Highway 74, 0.5 mile downstream from School Branch, 1.0 mile northeast of Clermont, and 2 miles west of Indianapolis.

DRAINAGE AREA.--162 sq mi.

PERIOD OF RECORD.--March 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.00 ft above mean sea level.

EXTREMES.--Current year: Maximum contents, 24,480 acre-ft Feb. 5 (elevation, 790.34 ft); minimum, 14,510 acre-ft Sept. 19 (elevation, 782.01 ft).

Period of record: Maximum contents, 24,480 acre-ft Feb. 5, 1971 (elevation, 790.34 ft); minimum, 14,510 acre-ft Sept. 19, 1971 (elevation, 782.01 ft).

REMARKS.--Reservoir is formed by earth fill dam. Low flow is controlled through a 48-inch diameter conduit. Spillway (elevation, 783 ft) is an ogee section with 6 tainter gates, each 40 ft wide and 25 ft high. Permanent pool capacity is 24,000 acre-ft (elevation, 790.0 ft). Reservoir is used for flood control, pollution abatement and recreation. Reservoir put into operation Nov. 27, 1969.

COOPERATION.--Records furnished by Indianapolis Flood Control District.

Month-end elevation and contents, water year October 1970 to September 1971

	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	782.61	15,110	-
Oct. 31.....	782.47	14,970	-140
Nov. 30.....	784.06	16,670	+1,700
Dec. 31.....	785.85	18,720	+2,050
Calendar year 1970.....	-	-	-
Jan. 31.....	787.28	20,460	+1,740
Feb. 28.....	789.22	22,990	+2,530
Mar. 31.....	785.90	18,780	-4,210
Apr. 30.....	786.06	18,970	+190
May 31.....	783.32	15,850	-3,120
June 30.....	783.01	15,510	-340
July 31.....	782.95	15,450	-60
Aug. 31.....	782.44	14,940	-510
Sept. 30.....	782.22	14,720	-220
Water year 1971.....	-	-	-390

03353500 Eagle Creek at Indianapolis, Ind.

LOCATION.--Lat 39°46'33", long 86°15'01", in NW¼ sec. 6, T.15 N., R.3 E. (revised), Marion County, on right bank at downstream side of bridge on Lynhurst Drive, approximately 600 ft south of intersection of West 10th Street and Lynhurst Drive, 0.5 mile downstream from West 10th Street Bridge, 1.0 mile upstream from Vermont Street Bridge, 2.9 miles upstream from mouth of Little Eagle Creek, and 6.9 miles from mouth.

DRAINAGE AREA.--174 sq mi.

PERIOD OF RECORD.--November 1938 to current year.

GAGE.--Water-stage recorder. Datum of gage is 699.00 ft above mean sea level. Aug. 8, 1957, to June 30, 1958, temporary site during reconstruction of bridge on Lynhurst Drive, a nonrecording gage on downstream side of 10th Street Bridge. Mar. 10, 1966, to Aug. 16, 1967, during channelization of Eagle Creek, a nonrecording gage on downstream side of Lynhurst Drive Bridge. Prior to Oct. 1, 1967, at datum 7.21 ft higher.

AVERAGE DISCHARGE.--32 years (1939-71) 145 cfs (11.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,460 cfs Feb. 20 (gage height, 6.95 ft); minimum daily, 5.5 May 4.
Period of record: Maximum discharge, 28,800 cfs June 28, 1957 (gage height, 23.59 ft), from rating curve extended above 9,000 cfs on basis of a combined current-meter measurement and slope-area measurement; no flow for several days in August 1941. Flood in March 1913 reached a stage of 23.2 ft, from information by local residents.

REMARKS.--Records poor. Regulated by Eagle Creek Reservoir, 4.7 miles upstream (see sta 03353450).

REVISIONS (WATER YEARS).--WSP 953: 1939. WSP 1625: 1958. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10	13	13	13	13	483	31	6.6	102	25	17	19
2	11	15	13	13	13	456	194	7.1	86	25	15	17
3	10	15	17	15	14	439	29	6.6	335	24	17	13
4	13	13	19	83	45C	416	158	5.5	386	25	17	11
5	13	12	17	5C	1,140	405	32	7.3	238	25	17	10
6	12	11	31	35	840	319	26	15	147	24	16	11
7	12	11	15	30	455	360	149	25	118	23	16	19
8	13	11	12	25	30C	364	38	19	394	23	16	12
9	33	18	13	21	5C	328	38	12	424	24	17	13
10	16	17	14	20	25	186	33	47	240	63	17	9.5
11	13	14	14	20	15	144	29	59	147	57	17	9.5
12	15	15	22	18	80	194	29	108	275	65	15	9.5
13	14	14	18	20	13C	319	83	78	380	46	16	9.0
14	28	15	16	20	3C	64	60	102	259	35	23	9.0
15	15	16	16	19	1C	383	33	182	170	26	15	9.5
16	13	13	23	18	25	381	24	178	125	23	14	8.0
17	12	11	22	18	225	312	24	280	96	20	5.5	7.6
18	13	11	21	17	694	348	25	331	79	20	9.7	7.9
19	13	12	19	15	1,210	374	24	298	80	19	5.5	9.4
20	15	38	20	15	2,43C	368	24	267	70	18	12	35
21	13	16	23	15	955	354	79	280	78	15	12	12
22	12	14	29	14	1,10C	214	63	282	62	16	11	10
23	12	26	24	14	687	162	24	239	49	17	11	9.1
24	12	18	57	14	322	129	24	146	40	94	12	9.4
25	12	17	28	13	245	180	20	185	36	24	14	16
26	12	14	25	13	651	28	11	396	34	26	14	15
27	12	14	21	13	843	120	13	373	30	17	14	8.2
28	14	17	18	13	804	48	8.9	266	27	28	14	7.6
29	21	15	16	13	-----	104	7.3	174	26	23	16	8.0
30	14	13	15	13	-----	166	6.9	124	25	22	13	6.9
31	13	-----	14	13	-----	63	-----	116	-----	19	12	-----
TOTAL	441	463	626	634	13,81C	8,231	1,339.1	4,655.1	4,558	911	453.5	345.1
MEAN	14.2	15.4	20.2	20.5	492	266	44.6	150	152	29.4	14.6	11.5
MAX	33	38	57	83	2,430	483	194	396	424	94	23	35
MIN	10	11	13	13	13	29	6.9	5.5	25	15	9.7	6.9
CAL YR 1970	TOTAL 40,613.0			MEAN 111	MAX 1,580	MIN 10						
WTR YR 1971	TOTAL 36,466.8			MEAN 99.9	MAX 2,430	MIN 5.5						

WABASH RIVER BASIN

03353600 Little Eagle Creek at Speedway, Ind.

LOCATION.--Lat 39°47'15", long 86°13'41", In NE¼SW¼ (revised) sec.32, T.16 N., R.3 E., Marion County, on right bank at downstream side of 16th Street Bridge in Speedway, 0.5 mile east of 500-Mile Track, 0.6 mile upstream from Dry Run, and 2.4 miles upstream from mouth.

DRAINAGE AREA.--23.9 sq mi (includes 5.57 sq mi from Dry Run basin). Since June 1964 part of the flow from the 5.57 sq mi of Dry Run basin has been diverted into Little Eagle Creek above gage.

PERIOD OF RECORD.--October 1959 to current year. Figures of runoff June 1964 to September 1966 have been found to be in error and should not be used.

GAGE.--Water-stage recorder. Datum of gage is 710.82 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--12 years, 16.6 cfs.

EXTREMES.--Current year: Maximum discharge, 896 cfs Feb. 4 (gage height, 4.72 ft); minimum daily, 1.1 cfs Oct. 1-4.
Period of record: Maximum discharge, 1,940 cfs Apr. 25, 1961 (gage height, 7.44 ft); no flow at times most years.

REMARKS.--Records poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	5.5	2.4	2.5	1.6	22	12	2.4	10	3.7	6.0	2.4
2	1.1	16	2.0	2.5	1.6	20	15	2.4	6.0	3.7	4.9	2.4
3	1.1	13	9.2	10	10	15	9.5	2.4	3.7	3.4	4.9	2.7
4	1.1	9.0	7.6	101	492	12	7.2	2.2	3.1	3.1	4.9	2.7
5	1.3	6.0	4.0	25	171	10	6.8	2.6	2.9	4.6	4.3	2.4
6	1.4	4.0	3.1	15	40	24	7.2	50	2.9	4.3	5.6	18
7	1.8	2.5	2.6	10	20	29	7.6	72	5.6	3.4	3.4	9.0
8	6.0	2.5	3.1	7.5	13	19	6.8	62	8.5	3.2	2.9	4.0
9	27	2.5	2.9	6.0	8.0	17	6.8	25	3.7	8.1	2.9	2.5
10	21	11	2.6	5.5	5.0	26	6.0	14	3.1	50	3.4	2.0
11	12	2.9	3.7	5.0	3.0	26	6.0	15	7.6	30	7.8	2.5
12	7.0	2.2	15	4.5	6.0	27	5.6	48	25	6.0	2.9	3.0
13	4.5	2.0	9.0	6.0	15	26	10	20	8.5	3.4	2.0	2.5
14	28	2.4	6.0	8.0	20	22	9.5	12	6.4	2.4	13	2.0
15	15	3.7	4.9	5.0	4.0	41	6.8	8.5	5.6	3.7	13	2.0
16	5.0	2.2	13	4.0	20	25	6.0	7.2	4.9	4.0	3.3	3.5
17	7.5	1.6	17	3.5	140	17	5.2	6.0	4.3	2.2	2.0	2.5
18	9.0	1.6	11	3.0	92	14	4.6	5.2	4.0	1.8	1.8	2.0
19	8.0	2.0	8.0	3.0	195	22	4.3	4.9	10	2.9	1.8	2.0
20	7.0	50	5.0	2.5	105	21	4.0	3.4	4.3	1.6	1.8	3.5
21	13	13	11	2.0	35	17	4.3	2.9	5.2	1.3	2.0	4.5
22	13	7.6	29	2.0	297	14	4.0	2.6	4.3	1.3	6.5	3.5
23	11	4.6	18	2.0	38	12	4.0	2.4	4.3	1.8	5.0	2.5
24	7.0	3.7	13	2.0	22	9.5	4.3	21	4.0	116	3.0	2.0
25	5.0	2.9	9.0	2.0	18	9.5	4.0	35	4.9	8.5	2.3	7.0
26	4.5	2.6	6.0	1.8	75	9.0	3.7	11	4.3	13	2.5	12
27	4.5	2.9	4.5	1.8	80	8.1	12	6.8	4.0	5.2	2.6	4.5
28	8.0	2.9	3.5	1.7	30	8.1	4.9	5.2	3.4	33	2.5	2.5
29	20	3.1	3.0	1.7	-----	7.2	3.4	4.6	3.4	14	2.4	4.0
30	16	2.9	3.0	1.7	-----	6.4	2.9	4.0	3.7	8.5	2.3	3.5
31	10	-----	2.7	1.6	-----	5.6	-----	3.4	-----	6.8	2.3	-----
TOTAL	277.9	188.8	234.8	249.8	1,957.2	541.4	194.4	464.1	171.3	354.9	126.0	152.1
MEAN	8.96	6.29	7.57	8.06	69.9	17.5	6.48	15.0	5.71	11.4	4.06	5.77
MAX	28	50	29	101	492	41	15	72	25	116	13	36
MIN	1.1	1.6	2.0	1.6	1.6	5.6	2.9	2.2	2.9	1.3	1.8	2.0

CAL YR 1970 TOTAL 5,915.45 MEAN 16.2 MAX 390 MIN .29
WTR YR 1971 TOTAL 4,912.70 MEAN 13.5 MAX 492 MIN 1.1

PEAK DISCHARGE (BASE, 450 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	1430	4.72	896	02-22	0730	3.87	648
02-17	1830	3.27	498	07-24	0700	3.62	582
02-19	2030	3.53	562				

03353620 Lick Creek at Indianapolis, Ind.

LOCATION.--Lat 39°42'21", long 86°06'13", in NE¼NE¼ sec.32, T.15 N., R.4 E., Marion County, on left bank at upstream side of Sherman Drive Bridge in Indianapolis.

DRAINAGE AREA.--15.6 sq mi.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 742.00 ft above mean sea level (Indiana Flood Control and Water Resources Commission bench mark).

EXTREMES.--Current year: Maximum discharge, 578 cfs Feb. 4 (gage height, 5.46 ft); minimum daily, 1.4 cfs May 4.

Period of record: Maximum discharge, 578 cfs Feb. 4, 1971 (gage height, 5.46 ft); minimum daily, 1.4 cfs May 4, 1971.

REMARKS.--Records good except those for periods of no gage-height record which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.9	2.9	4.4	4.1	3.5	25	9.1	2.0	7.3	2.2	3.1	3.6
2	2.0	9.4	4.1	4.1	3.5	21	12	1.9	21	2.2	3.1	51
3	2.0	3.2	22	20	20	17	6.2	1.7	7.0	1.6	2.8	35
4	1.9	3.2	18	190	80	12	4.4	1.4	4.1	1.6	3.1	14
5	2.0	3.2	9.0	50	145	10	4.4	1.6	3.8	2.0	2.6	3.2
6	2.0	3.4	6.6	18	35	38	3.8	11	3.3	1.9	2.6	16
7	2.0	2.9	4.7	16	17	37	3.8	38	5.5	1.7	2.6	11
8	2.7	2.7	4.7	14	11	24	3.3	22	7.8	1.9	2.2	6.6
9	23	6.0	4.4	13	8.0	16	3.3	7.4	3.6	1.9	2.4	5.0
10	16	7.0	4.1	12	7.0	31	3.1	4.4	2.8	9.8	2.2	4.7
11	3.6	4.0	3.8	11	8.6	27	3.1	14	8.1	11	7.4	9.5
12	10	3.7	31	11	52	29	3.6	79	30	3.8	4.1	6.2
13	8.6	4.0	15	13	24	26	6.2	27	8.6	3.1	2.8	4.7
14	36	5.0	9.0	11	9.0	23	7.8	16	5.0	2.0	2.6	4.4
15	7.0	4.0	6.6	9.0	8.0	35	3.8	11	3.8	5.4	5.0	4.4
16	3.8	3.4	33	7.6	12	21	3.3	8.6	3.3	4.1	3.8	3.8
17	3.6	3.2	28	6.8	140	14	3.3	7.4	2.8	2.4	3.1	3.3
18	2.8	3.2	15	6.0	62	12	2.8	6.6	2.2	2.4	2.8	3.6
19	2.8	6.0	12	5.6	156	23	2.6	6.2	14	10	2.4	4.5
20	9.9	48	7.8	5.2	90	17	2.6	5.8	6.4	3.1	2.6	49
21	5.4	3.5	22	5.0	45	16	2.8	5.0	11	2.6	2.4	10
22	3.8	3.1	51	4.8	209	13	2.6	5.0	3.8	2.2	2.2	7.0
23	3.3	4.2	23	4.5	57	9.5	2.6	4.4	3.3	3.3	3.1	4.4
24	2.8	5.2	7.0	4.3	30	7.4	2.4	24	2.8	53	2.6	3.8
25	2.4	4.6	6.0	4.2	25	6.6	2.0	34	2.6	7.8	7.4	20
26	2.6	4.1	5.4	4.0	86	6.6	2.0	13	2.8	4.1	5.0	24
27	2.6	4.4	5.0	3.9	66	5.8	2.8	8.2	2.0	3.3	3.8	5.8
28	5.8	4.4	4.7	3.8	34	5.4	3.8	6.2	4.1	33	2.8	3.6
29	21	28	4.4	3.7	-----	4.7	2.2	5.0	5.0	13	2.8	3.5
30	3.5	5.4	4.3	3.6	-----	3.8	2.0	4.1	2.6	8.2	3.1	2.2
31	3.0	-----	4.2	3.5	-----	3.6	-----	4.1	-----	5.4	3.3	-----
TOTAL	199.8	195.3	380.2	472.7	1,443.6	540.4	117.7	386.0	190.4	210.0	101.8	331.8
MEAN	6.45	6.51	12.3	15.2	51.6	17.4	3.92	12.5	6.35	6.77	3.28	11.1
MAX	36	48	51	190	209	38	12	79	30	53	7.4	51
MIN	1.9	2.7	3.8	3.5	3.5	3.6	2.0	1.4	2.0	1.6	2.2	2.2
CFSM	.41	.42	.79	.97	3.31	1.12	.25	.80	.41	.43	.21	.71
IN.	.48	.47	.51	1.13	3.44	1.29	.28	.92	.45	.50	.24	.79

WTR YR 1971 TOTAL 4,569.7 MEAN 12.5 MAX 209 MIN 1.4 CFSM .80 IN 10.90

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0300	4.82	395	02-22	0530	4.96	430
02-04	1400	5.46	578	02-26	1230	3.80	170
02-17	1700	4.36	282	05-11	2330	4.10	230
02-19	1800	4.91	418	09-02	1500	3.86	200

NOTE.--No gage-height record Oct. 30 to Nov. 25, Dec. 24 to Jan. 6, Jan. 20 to Feb. 4.

03353700 West Fork White Lick Creek at Danville, Ind.

LOCATION.--Lat 39°45'36", long 86°30'47", in NW¼NE¼ sec.10, T.15 N., R.1 W., Hendricks County, on upstream side of bridge on U.S. Highway 36, 0.1 mile east of city limits of Danville, 0.5 mile upstream from small left-bank tributary, and 7 miles west of Avon.

DRAINAGE AREA.--28.8 sq mi.

PERIOD OF RECORD.--May 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 828.83 ft above mean sea level. Prior to Oct. 23, 1968, nonrecording gage and crest-stage gage at same site and datum.

AVERAGE DISCHARGE.--13 years, 24.9 cfs (11.74 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,210 cfs Feb. 22 (gage height, 7.60 ft); no flow Oct. 4, 5, 7.

Period of record: Maximum discharge, 3,330 cfs July 14, 1962 (gage height, 11.32 ft); no flow at times some years.

Flood of June 28, 1957, reached a stage of 16.0 ft, from floodmark (discharge, 6,660 cfs, from contracted-opening measurement).

REMARKS.--Records good.

REVISIONS.--WRD Ind, 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.11	2.4	5.2	4.7	2.3	2.0	2.0	3.3	15	1.8	4.4	1.4
2	1.11	3.3	4.0	3.4	2.3	4.8	2.2	3.2	15	1.2	6.6	2.1
3	2.01	2.7	6.2	5.2	2.3	3.7	2.2	3.5	16	1.0	5.6	2.1
4	0	1.2	4.4	11.6	5.34	2.4	1.7	3.3	13	2.90	5.2	1.8
5	0	7.0	4.4	4.4	3.2	2.4	1.4	3.2	11	1.0	4.4	1.6
6	1.11	4.4	2.2	3.0	11.6	3.5	1.4	1.5	10	1.6	3.6	2.1
7	0	3.3	2.4	1.5	3.0	4.0	1.2	5.4	2.4	2.0	3.3	1.6
8	2.60	2.4	2.1	1.0	1.5	3.0	1.1	2.4	3.2	2.64	2.4	7.1
9	2.4	2.4	2.2	4.0	1.0	2.0	1.0	4.1	5.2	1.6	2.7	4.4
10	1.2	4.1	2.4	7.3	9.3	3.6	5.2	2.5	4.3	2.7	3.0	2.4
11	1.2	1.3	3.0	7.0	4.3	4.4	7.1	2.1	11	1.0	3.6	1.4
12	2.64	1.2	3.6	5.3	3.3	4.7	4.2	2.5	22.2	3.3	2.4	.52
13	2.2	2.1	5.2	6.2	1.4	5.2	1.0	2.2	11.3	1.2	2.1	.40
14	5.2	1.2	3.2	1.4	1.3	4.6	2.4	1.6	4.0	1.2	2.7	.40
15	3.2	2.1	3.2	1.1	2.5	4.4	4.2	1.4	2.7	1.2	4.0	.22
16	1.2	1.2	1.2	4.5	4.5	4.0	7.1	1.3	4.4	1.2	2.4	.40
17	1.0	1.0	4.4	4.0	4.0	4.8	7.1	1.1	2.4	.52	2.1	.30
18	2.3	1.4	2.7	2.5	2.0	3.2	5.6	2.4	1.4	.22	1.9	.11
19	2.4	2.1	2.1	1.5	3.3	4.4	5.6	2.6	1.1	7.0	1.6	.40
20	1.4	10.1	1.3	1.3	2.6	4.3	7.1	6.1	2.5	4.8	1.6	1.1
21	2.30	4.4	3.6	1.5	1.3	5.2	6.1	4.4	7.1	3.6	1.4	6.1
22	2.4	3.4	5.0	3.0	6.1	4.4	5.2	4.0	5.2	1.6	1.2	2.7
23	2.4	2.2	4.7	3.0	1.4	3.4	4.4	3.3	4.4	1.6	1.4	1.6
24	4.3	1.8	3.0	2.1	7.5	2.5	5.6	2.3	3.6	2.43	1.2	1.4
25	2.3	1.8	1.0	1.7	7.0	2.2	4.2	1.7	4.0	5.1	3.2	7.6
26	2.2	8.4	1.2	1.4	1.2	2.1	4.6	2.3	4.4	2.2	2.1	1.4
27	2.4	7.1	4.5	1.0	1.1	2.0	4.3	3.7	2.7	1.4	1.4	7.6
28	1.2	6.2	7.0	.75	.2	1.3	4.3	2.7	2.1	4.0	1.2	4.4
29	5.2	6.4	5.5	.60	-----	1.6	4.6	2.3	2.1	3.3	1.0	3.3
30	4.2	4.4	4.7	.42	-----	1.4	3.3	2.0	1.5	1.4	1.3	2.4
31	4.4	-----	4.0	.40	-----	1.3	-----	1.7	-----	1.1	1.4	-----
TOTAL	561.34	561.34	154.24	314.34	122.44	117.2	274.2	335.1	1,332.5	554.79	25.9	92.85
MEAN	17.77	17.77	4.94	10.3	3.9	3.75	8.5	10.8	42.3	17.5	0.81	3.10
MAX	6.6	13.1	5.0	11.6	6.1	4.8	7.1	5.6	22.2	3.6	6.6	7.1
MIN	0	1.2	2.1	1.0	1.3	1.0	1.1	1.3	1.0	1.0	1.0	1.0
NO. OF	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0
PERCENT	100	100	100	100	100	100	100	100	100	100	100	100

WATER YEAR 1971 TOTAL 561.34 CFS 24.4 IN 24.4 DAY 24.4 MAX 6.6 MIN 0 MEAN 17.77

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0045	5.97	752	02-22	0600	7.60	1,210
02-19	1845	6.60	910	07-24	0745	6.17	752

03353800 White Lick Creek at Mooresville, Ind.

LOCATION.--Lat 39°36'28", long 86°22'56", in NE½SE¼ sec.35, T.14 N., R.1 E., Morgan County, on right bank at downstream side of bridge on State Highway 42 at Mooresville, 1.0 mile downstream from McCracken Creek, and 2.0 miles upstream from East Fork White Lick Creek.

DRAINAGE AREA.--212 sq mi.

PERIOD OF RECORD.--August 1957 to current year.

GAGE.--Water-stage recorder. Datum of gage is 644.64 ft above mean sea level. Dec. 10, 1963, to Sept. 30, 1964, nonrecording gage at bridge 1,950 ft upstream at datum 1.39 ft higher.

AVERAGE DISCHARGE.--14 years, 194 cfs (12.43 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,320 cfs Feb. 4 (gage height, 20.21 ft); minimum daily, 6.1 cfs Oct. 6, 7.
Period of record: Maximum discharge, 18,000 cfs Mar. 4, 1963 (gage height, 22.95 ft); minimum daily, 2.0 cfs Dec. 24, 25, 1960, Sept. 2, 1966.
Flood of June 28, 1957, reached a stage of 22.5 ft, from levels to high-water mark by Indiana Flood Control and Water Resources Commission.

REMARKS.--Records good except those for January and February, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.9	28	39	43	22	370	116	55	85	39	79	15
2	8.9	28	38	41	21	306	153	50	91	35	63	14
3	7.5	49	43	45	20	254	141	49	110	33	57	18
4	6.5	71	59	886	3,650	196	118	46	92	31	52	17
5	7.0	55	52	343	2,750	176	105	46	76	30	49	15
6	6.1	43	41	150	404	217	98	110	66	31	44	100
7	6.1	36	34	120	230	345	95	194	66	29	40	67
8	7.5	32	32	100	160	268	92	399	74	27	36	32
9	23	29	30	90	130	207	92	262	88	26	35	22
10	37	31	32	85	110	236	88	171	62	39	41	19
11	25	29	33	80	100	284	83	150	53	325	77	17
12	20	26	44	75	167	284	80	558	438	98	38	16
13	21	25	56	70	211	310	76	260	477	57	33	15
14	44	25	50	105	141	292	82	192	1,230	41	29	14
15	36	25	44	79	120	447	82	151	340	38	36	12
16	32	24	60	50	100	399	76	139	209	47	29	12
17	25	22	174	45	1,350	260	74	134	151	53	25	12
18	21	22	153	42	1,320	211	74	113	116	50	22	12
19	18	23	118	40	2,010	248	73	100	98	238	21	12
20	15	187	51	38	2,720	313	71	88	114	74	20	58
21	20	245	90	36	1,120	313	70	79	98	46	19	50
22	17	144	200	35	4,340	280	69	71	88	37	19	31
23	16	97	242	34	1,130	215	69	69	76	33	17	24
24	15	59	164	33	483	171	66	80	66	732	16	20
25	14	58	119	34	396	151	63	679	73	251	22	22
26	13	55	92	36	1,280	143	61	355	62	144	25	54
27	12	50	80	33	1,340	133	56	226	53	119	20	42
28	12	47	64	30	562	131	56	167	49	178	17	32
29	25	43	56	27	-----	121	58	133	43	220	16	25
30	29	42	50	25	-----	103	57	111	39	129	14	21
31	32	-----	45	23	-----	92	-----	95	-----	103	16	-----
TOTAL	584.5	1,650	2,425	2,873	26,387	7,476	2,494	5,332	4,683	3,333	1,027	920
MEAN	18.9	55.0	78.2	92.7	942	241	83.1	172	156	108	33.1	27.3
MAX	44	245	242	886	4,340	447	153	679	1,230	732	79	100
MIN	6.1	22	30	23	20	92	56	46	39	26	14	12
CFSM	.09	.26	.37	.44	4.44	1.14	.39	.81	.74	.51	.16	.13
IN.	.10	.29	.43	.50	4.63	1.31	.44	.94	.82	.58	.18	.14

CAL YR 1970 TOTAL 63,220.4 MEAN 173 MAX 3,900 MIN 6.1 CFSM .82 IN 11.09
WTR YR 1971 TOTAL 59,084.5 MEAN 162 MAX 4,340 MIN 6.1 CFSM .76 IN 10.37

PEAK DISCHARGE (BASE, 3,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	1630	20.21	7,320	02-19	2300	18.29	5,360
02-17	2200	16.08	3,660	02-22	1030	20.09	7,060

03354000 White River near Centerton, Ind.

LOCATION.--Lat 39°30'02", long 86°24'24", in SW¹/₄SE¹/₄ sec.3, T.12 N., R.1 E., Morgan County, on right bank 0.4 mile downstream from bridge on Blue Bluff Road, 1 mile south of Centerton, 1.1 miles downstream from White Lick Creek, and at mile 202.6.

DRAINAGE AREA.--2,444 sq mi.

PERIOD OF RECORD.--July 1925 to September 1930 (gage height only), October 1930 to March 1932, October 1946 to current year. Monthly discharge only for October and November 1946, published in WSP 1305. Published as West Fork White River at Martinsville prior to March 1932, and as West Fork White River near Centerton October 1946 to September 1948.

GAGE.--Water-stage recorder. Datum of gage is 595.44 ft above mean sea level (Corps of Engineers bench mark), levels by Indianapolis Power and Light Co. See WSP 1725 for history of changes prior to July 1953.

AVERAGE DISCHARGE.--26 years (1930-31, 1946-71), 2,272 cfs (12.62 inches per year).

EXTREMES.--Current year: Maximum discharge, 26,700 cfs Feb. 22 (gage height, 14.58 ft); minimum daily, 346 cfs Sept. 19. Period of record: Maximum discharge, 50,500 cfs Apr. 22, 1964 (gage height, 17.57 ft); minimum daily, 131 cfs Nov. 15, 1930. Flood in March 1913 reached a stage of 22.8 ft at Martinsville site (from information by State Highway Department of Indiana) and 21.9 ft at present site (from information by Corps of Engineers), discharge 90,000 cfs.

REMARKS.--Records good. Flow regulated by upstream reservoirs. Records of water temperature for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1335: 1948-49. WSP 1909: 1931(M). WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	472	776	744	704	496	7,570	1,420	752	1,300	1,110	840	392
2	440	752	808	680	464	5,400	1,700	672	1,620	888	736	368
3	424	968	888	672	432	4,480	1,700	624	1,820	760	680	656
4	384	936	1,060	4,420	4,640	3,780	1,460	656	2,110	656	592	608
5	384	1,110	904	3,080	12,800	3,200	1,490	632	1,860	576	536	536
6	424	1,020	752	2,310	10,000	3,020	1,360	968	1,530	510	512	520
7	408	912	720	1,860	9,110	3,610	1,320	1,930	1,310	489	488	1,200
8	416	792	664	1,460	4,810	3,680	1,240	3,900	1,790	496	424	864
9	560	744	616	1,290	2,650	3,540	1,110	3,830	3,000	504	416	1,120
10	1,260	832	600	1,240	1,870	3,030	1,080	4,020	2,210	576	464	904
11	760	768	624	1,190	1,660	3,070	1,050	3,140	1,660	1,590	688	728
12	808	736	752	1,140	2,080	3,100	982	5,100	2,450	1,330	656	688
13	896	696	944	1,060	2,580	3,340	974	3,470	3,770	1,050	560	640
14	1,260	664	808	1,220	1,900	4,200	1,270	2,720	4,030	952	544	568
15	1,220	712	824	1,100	1,780	5,030	1,180	2,320	2,490	840	718	512
16	1,340	680	864	944	1,540	5,470	1,140	2,010	1,870	928	656	456
17	1,210	640	1,300	912	3,780	5,420	1,060	1,800	1,530	792	552	448
18	960	600	1,190	832	6,860	4,450	1,020	1,780	1,300	824	480	392
19	792	576	1,110	776	9,450	3,890	984	1,800	1,210	936	432	346
20	784	1,090	1,020	712	15,200	3,900	952	1,700	1,140	832	432	836
21	832	1,320	1,030	656	15,300	3,960	896	1,530	1,590	600	416	1,190
22	704	1,320	1,460	688	22,300	3,590	960	1,420	1,780	536	360	878
23	680	1,250	1,510	696	19,000	3,070	896	1,340	1,440	488	408	736
24	648	1,040	1,350	688	13,100	2,520	840	1,270	1,190	1,810	448	542
25	592	904	1,360	688	9,800	2,230	776	2,630	1,060	1,930	512	560
26	552	816	1,260	672	7,510	2,060	736	2,840	960	1,100	656	904
27	560	736	1,140	584	9,070	1,830	712	3,140	832	1,100	504	744
28	528	744	980	584	9,060	1,740	968	2,580	736	936	448	696
29	784	736	904	560	-----	1,690	848	2,010	744	1,770	392	720
30	776	752	800	568	-----	1,540	792	1,650	1,200	1,110	400	656
31	736	-----	752	520	-----	1,580	-----	1,420	-----	1,020	440	-----
TOTAL	22,594	25,622	29,818	34,546	199,242	108,990	32,916	65,654	51,532	29,039	16,390	20,308
MEAN	729	854	962	1,114	7,116	3,516	1,097	2,118	1,718	937	525	677
MAX	1,340	1,320	1,510	4,420	22,300	7,570	1,700	5,100	4,030	1,930	840	1,200
MIN	384	576	600	520	432	1,540	712	624	736	488	360	346
CFSM	.30	.35	.39	.46	2.91	1.44	.45	.87	.70	.38	.22	.28
IN.	.34	.39	.45	.53	3.03	1.66	.50	1.00	.78	.44	.25	.31

CAL YR 1970 TOTAL 658,702 MEAN 1,914 MAX 14,400 MIN 300 CFSM .78 IN 10.63
WFR YR 1971 TOTAL 636,651 MEAN 1,744 MAX 22,300 MIN 346 CFSM .71 IN 9.69

PEAK DISCHARGE (BASE, 9,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0900	12.10	14,700	02-22	2400	14.58	26,700
02-20	1100	12.67	16,000				

03354500 Beanblossom Creek at Beanblossom, Ind.

LOCATION.--Lat 39°15'45", long 86°14'55", In SW¼NW¼ sec.31, T.10 N., R.3 E., Brown County, on right bank 15 ft downstream from bridge on State Highway 135, 0.3 mile south of Beanblossom, and 2.5 miles upstream from North Fork Beanblossom Creek.

DRAINAGE AREA.--14.6 sq mi.

PERIOD OF RECORD.--October 1951 to current year. Prior to October 1965, published as Bean Blossom Creek at Bean Blossom.

GAGE.--Water-stage recorder. Datum of gage is 673.65 ft above mean sea level.

AVERAGE DISCHARGE.--20 years, 15.5 cfs (14.42 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,130 cfs Feb. 22 (gage height, 6.99 ft); no flow Oct. 6, 7.
Period of record: Maximum discharge, 8,140 cfs June 23, 1960 (gage height, 11.78 ft), from curve extended above 2,000 cfs on basis of contracted-opening measurement; no flow for many days in most years.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1555: 1952, 1953(M), 1956-57. WSP 1705: 1952(P).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.05	1.4	2.5	3.1	.80	26	9.4	2.2	5.7	.80	.51	.13
2	.05	1.7	2.3	3.1	.74	23	14	2.4	8.6	.51	.40	.13
3	.03	1.8	2.5	21	.72	20	11	2.1	12	.45	.35	.15
4	.02	2.1	2.5	285	50	17	11	1.9	7.2	.45	1.0	.11
5	.01	2.3	2.1	44	120	14	9.7	2.1	5.2	.72	.90	.09
6	0	1.8	1.8	27	48	39	12	16	3.5	1.0	.45	.45
7	0	1.7	1.7	13	22	49	11	98	2.9	.45	.35	.21
8	.06	1.4	1.7	9.1	13	33	9.4	77	9.4	.35	.30	.09
9	.91	1.7	1.8	7.2	9.0	25	8.6	31	4.9	.30	.35	.07
10	.67	2.9	1.7	6.0	7.0	41	7.5	19	3.1	.40	.35	.06
11	.21	2.3	1.8	5.4	12	39	6.9	15	2.4	1.6	3.3	.07
12	.52	2.3	3.3	4.8	78	32	6.4	13	4.9	.72	.65	.07
13	1.2	2.0	3.1	6.6	69	26	6.4	10	4.0	.45	.35	.07
14	5.4	3.3	2.7	12	49	22	6.7	8.0	4.4	.35	.30	.06
15	2.0	6.0	2.5	7.5	22	59	6.2	6.7	57	1.1	.25	.05
16	.91	4.3	17	6.5	16	36	5.9	5.7	31	1.1	.21	.05
17	.75	3.7	25	6.0	148	25	5.4	4.9	11	4.7	.15	.05
18	.67	3.3	13	3.5	74	20	5.2	3.7	6.4	7.7	.15	.05
19	.59	3.3	9.1	3.7	211	25	4.7	3.3	4.4	11	.18	.05
20	2.1	25	6.6	2.9	123	25	4.4	2.9	3.3	3.5	.15	.80
21	2.7	11	15	3.3	53	21	5.5	2.1	4.4	1.8	.18	.45
22	1.7	6.9	41	3.3	460	18	5.2	1.8	2.4	1.1	.18	.30
23	1.3	4.5	23	2.9	69	15	4.2	1.6	1.8	.80	.18	.30
24	1.1	3.7	13	2.7	41	12	3.7	7.5	1.3	1.1	.15	.30
25	.91	3.3	8.7	2.9	33	11	3.3	51	2.6	.80	.15	.40
26	.83	3.5	7.9	1.1	48	10	3.1	17	1.8	.58	.18	.90
27	.75	3.3	5.7	1.0	53	9.4	2.9	9.4	1.2	.45	.15	.65
28	.91	3.1	4.3	1.0	34	8.9	3.1	6.7	1.2	1.9	.15	.45
29	2.9	2.9	3.7	1.2	-----	8.0	2.6	5.2	1.8	1.9	.15	.35
30	2.1	2.7	3.3	1.1	-----	6.9	2.4	4.0	1.0	.90	.15	.35
31	1.7	-----	3.5	.90	-----	6.7	-----	2.9	-----	.80	.13	-----
TOTAL	33.05	119.2	233.8	499.60	1,864.26	722.9	198.2	434.1	210.8	49.78	12.40	7.26
MEAN	1.07	3.97	7.54	16.1	66.6	23.3	6.61	14.0	7.03	1.61	.40	.24
MAX	5.4	25	41	285	460	59	14	98	57	11	3.3	.90
MIN	0	1.4	1.7	.90	.72	6.7	2.4	1.6	1.0	.30	.13	.05
CFSM	.07	.27	.52	1.10	4.56	1.60	.45	.96	.48	.11	.03	.02
IN.	.08	.30	.60	1.27	4.75	1.84	.51	1.11	.54	.13	.03	.02

CAL YR 1970 TOTAL 4,112.16 MEAN 11.3 MAX 531 MIN 0 CFSM .77 IN 10.48
WTR YR 1971 TCTAL 4,385.35 MEAN 12.0 MAX 460 MIN 0 CFSM .82 IN 11.17

PEAK DISCHARGE (BASE, 700 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0230	6.08	824	02-22	0445	6.99	1,130
02-19	1915	6.16	848				

03355000 Bear Creek near Trevlac, Ind.

LOCATION.--Lat 39°16'40", long 86°20'45", in NE¼NE¼ sec.30, T.10 N., R.2 E., Brown County, on left bank 15 ft west of Bear Creek Road, 100 ft upstream from Slippery Elm Shoot Road ford, 1.1 miles northwest of Trevlac, and 1.3 miles upstream from mouth.

DRAINAGE AREA.--6.94 sq mi.

PERIOD OF RECORD.--May 1952 to current year.

GAGE.--Water-stage recorder and concrete control. Altitude of gage is 640 ft (from topographic map).

AVERAGE DISCHARGE.--19 years, 6.58 cfs (12.88 Inches per year).

EXTREMES.--Current year: Maximum discharge, 270 cfs Jan. 4 (gage height, 3.90 ft); no flow Aug. 24-27, 29-31, Sept. 1, 16-19.
Period of record: Maximum discharge, 1,830 cfs June 12, 1957 (gage height, 7.62 ft), from rating curve extended above 290 cfs on basis of slope-area measurement of peak flow at gage height, 6.43 ft; no flow at times most years.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1555: 1952(M), 1955(M), 1956-57. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.06	.92	1.2	1.1	.35	15	4.3	.86	2.0	.27	.12	C
2	.05	1.3	1.0	1.0	.32	13	6.5	.86	4.8	.19	.12	.06
3	.04	1.2	1.0	9.7	.30	12	5.6	.80	19	.19	.12	.37
4	.02	1.8	1.0	12C	35	9.1	4.5	.80	6.5	.19	.27	.27
5	.03	1.8	.86	25	66	8.0	4.3	.86	3.6	.27	.19	.12
6	.02	1.5	.71	11	20	21	5.0	4.5	2.0	.19	.12	.44
7	.03	1.2	.68	6.5	7.0	31	5.3	34	4.8	.12	.12	.19
8	.23	1.1	.68	4.3	4.5	21	4.8	39	35	.12	.12	.12
9	7.6	1.2	.58	3.4	2.8	15	4.5	17	11	.12	.19	.12
10	1.2	1.5	.53	3.0	2.2	18	3.8	9.8	5.3	.27	.19	.12
11	.48	1.2	.63	2.3	5.0	17	3.4	7.1	3.4	1.0	1.5	.19
12	.56	1.2	1.3	2.1	41	16	3.2	9.4	6.8	.19	.19	.14
13	.63	1.1	1.2	2.6	45	13	3.6	7.7	6.2	.17	.12	.09
14	17	1.9	1.2	5.9	30	12	4.3	5.6	14	.12	.12	.06
15	2.9	3.4	1.1	4.5	15	20	3.6	4.5	47	.19	.12	.04
16	1.5	2.6	10	3.8	8.0	16	3.2	3.4	22	.27	.06	0
17	1.1	2.1	15	3.4	58	12	3.2	2.6	8.7	.19	.06	0
18	.86	1.8	7.4	2.1	40	9.8	2.6	2.0	4.5	.37	.06	0
19	.74	1.6	5.6	1.8	67	10	2.4	1.6	2.6	1.5	.06	0
20	1.6	19	4.0	1.3	60	11	2.1	1.4	1.6	.44	.06	.68
21	1.4	7.4	5.6	1.5	36	9.8	2.3	1.1	1.6	.27	.06	.27
22	1.2	5.0	14	1.5	149	8.4	1.8	1.0	1.1	.19	.06	.12
23	1.0	3.3	10	1.2	44	7.1	1.5	.86	.86	.19	.06	.12
24	.92	2.4	6.5	1.2	26	6.2	1.3	12	.68	.37	0	.12
25	.74	2.0	4.3	1.1	18	5.9	1.2	25	3.2	.19	C	.44
26	.68	1.8	3.6	.48	60	5.3	1.0	10	1.2	.19	0	.86
27	.58	1.5	2.7	.42	39	4.8	1.0	5.6	.80	.12	0	.37
28	.77	1.4	2.1	.40	23	4.5	1.1	3.6	.68	.27	.06	.27
29	1.9	1.3	1.8	.50	-----	3.8	1.0	2.2	.44	.27	0	.27
30	1.5	1.2	1.5	.47	-----	3.2	.86	1.6	.37	.19	C	.19
31	1.2	-----	1.3	.41	-----	3.0	-----	1.2	-----	.12	0	-----
TOTAL	48.54	76.72	109.07	223.58	902.47	361.9	93.26	218.04	221.73	8.74	4.15	6.04
MEAN	1.57	2.56	3.52	7.23	32.2	11.7	3.11	7.03	7.39	.28	.13	.20
MAX	17	19	15	120	149	31	6.5	39	47	1.5	1.5	.86
MIN	.02	.92	.53	.40	.20	3.0	.86	.80	.37	.12	0	0
CFSM	.23	.37	.51	1.04	4.64	1.69	.45	1.01	1.06	.04	.02	.03
IN.	.26	.41	.58	1.20	4.84	1.94	.50	1.17	1.19	.05	.02	.03

CAL YR 1970 TOTAL 2,036.62 MEAN 5.98 MAX 140 MIN 0 CFSM .80 IN 10.92
WTR YR 1971 TOTAL 2,274.64 MEAN 6.23 MAX 149 MIN 0 CFSM .90 IN 12.19

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0300	3.90	270	06-15	1415	3.73	236
02-22	0430	3.89	268				

03355400 Lake Lemon near Bloomington, Ind.

LOCATION. --Lat 39°16'20", long 86°25'37", in NW 1/4 sec. 28, T.10 N., R.1 E., Monroe County, on left side of dam on Beanblossom Creek, 5 miles downstream from Bear Creek, 5.5 miles west of Trevlac, and 9.2 miles northeast of Bloomington.

DRAINAGE AREA. --70.9 sq mi.

PERIOD OF RECORD. --April 1953 to March 1958, October 1960 to current year.

GAGE. --Water-stage recorder. Datum of gage is 620.10 ft above mean sea level.

EXTREMES. --Current year: Maximum contents, 17,210 acre-ft Feb. 22 (gage height, 11.51 ft); minimum contents, 11,550 acre-ft Oct. 7, 8 (gage height, 8.00 ft).

Period of record: Maximum contents, 20,470 acre-ft May 24, 1968 (gage height, 13.32 ft); minimum contents, 5,390 acre-ft Mar. 3, 1964 (gage height, 2.50 ft).

REMARKS. --Reservoir is formed by earth fill dam. Releases normally controlled by 42-inch diameter gate in 42-inch conduit. Capacity at uncontrolled spillway elevation (9.87 ft) is 14,420 acre-ft. Reservoir is used for flood control, low-flow augmentation, and recreation. Reservoir put in operation on April 15, 1953.

COOPERATION. --Capacity tables furnished by Indiana Department of Natural Resources.

REVISIONS. --WRD Ind. 1968: Drainage area.

Month-end gage-height and contents, water year October 1970 to September 1971

Date	Gage-height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	8.20	11,830	-
Oct. 31.....	8.65	12,480	+650
Nov. 30.....	9.29	13,460	+980
Dec. 31.....	10.10	14,810	+1,350
Calendar year 1970.....	-	-	-170
Jan. 31.....	10.00	14,640	-170
Feb. 28.....	10.40	15,320	+680
Mar. 31.....	10.13	14,860	-460
Apr. 30.....	9.95	14,560	-300
May 31.....	-	-	-
June 30.....	9.95	14,560	-
July 31.....	9.57	13,910	-650
Aug. 31.....	-	-	-
Sept. 30.....	8.38	12,080	-
Water year 1971	-	-	+250

WABASH RIVER BASIN

03356000 Beanblossom Creek at Dolan, Ind.

LOCATION.--Lat 39°14'30", long 86°29'57", in NW 1/4 sec. 2, T.9 N., R.1 W., Brown County, on downstream side of pier of highway bridge at Dolan, 5.8 miles northeast of Bloomington, and 17.5 miles upstream from mouth.

DRAINAGE AREA.--100 sq mi.

PERIOD OF RECORD.--April 1946 to current year. Prior to October 1965, published as Bean Blossom Creek at Dolan.

GAGE.--Water-stage recorder. Datum of gage is 576.41 ft above mean sea level (unadjusted). Prior to Sept. 28, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 111 cfs (15.07 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,940 cfs Feb. 23 (gage height, 13.54 ft); minimum daily, 13 cfs Oct. 1-8, Sept. 19, 21, 22, 28, 29.

Period of record: Maximum discharge, 9,420 cfs June 2, 1947; maximum gage height, 17.9 ft Jan. 5, 1949; no flow at times during 1946-49, 1953.

REMARKS.--Records good. Flow regulated by Lake Lemon 8.1 miles upstream (see sta 03355400).

REVISIONS (WATER YEARS).--WSP 1113: 1947. WSP 1275: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13	18	17	27	16	242	57	18	30	17	14	14
2	13	19	16	26	16	195	56	17	42	16	14	14
3	13	22	16	31	16	164	57	16	118	15	14	15
4	13	26	16	1,100	132	132	56	16	107	15	15	14
5	13	25	16	967	783	120	54	15	72	16	14	14
6	13	22	15	331	468	162	54	22	50	15	14	14
7	13	20	15	182	261	324	53	80	60	14	14	14
8	13	18	15	115	170	294	54	469	124	14	14	14
9	16	18	15	79	130	236	51	326	115	14	14	14
10	18	20	15	58	100	223	45	204	71	15	21	14
11	15	19	15	48	80	251	44	137	47	16	22	14
12	15	19	22	43	165	239	43	135	103	15	16	14
13	15	18	21	42	400	206	40	113	80	15	15	14
14	75	19	19	70	288	178	45	78	60	15	15	14
15	36	30	18	72	213	229	42	60	113	17	15	14
16	20	25	70	57	160	250	40	49	661	16	15	14
17	17	22	122	52	393	210	39	40	329	15	14	14
18	16	21	57	43	690	172	40	37	144	16	14	14
19	16	19	40	35	568	147	38	33	91	33	14	13
20	16	130	31	31	1,080	135	34	25	56	17	14	16
21	18	59	37	27	655	143	34	21	61	16	15	13
22	17	35	79	25	1,550	124	34	21	50	15	14	13
23	16	27	99	25	1,590	104	33	22	37	15	14	14
24	16	22	97	24	607	89	29	29	31	16	14	14
25	16	19	89	24	330	84	27	239	34	15	14	14
26	15	19	65	23	318	70	25	196	31	15	14	15
27	15	19	52	21	405	62	33	124	28	15	14	14
28	16	18	41	18	325	59	27	77	24	16	14	13
29	26	18	35	17	-----	46	20	52	22	16	14	13
30	23	17	31	17	-----	43	19	39	19	15	14	14
31	20	-----	29	16	-----	47	-----	33	-----	14	14	-----
TOTAL	577	783	1,224	3,546	11,989	4,980	1,225	2,743	2,800	494	457	419
MEAN	18.6	26.1	39.5	114	428	161	40.8	88.5	93.3	15.9	14.7	14.0
MAX	75	130	122	1,100	1,590	324	59	469	661	33	22	15
MIN	13	17	15	16	16	43	19	15	19	14	14	13
CFSM	.19	.26	.40	1.14	4.28	1.61	.41	.89	.93	.16	.15	.14
IN.	.21	.29	.46	1.32	4.45	1.85	.46	1.02	1.04	.18	.17	.16

CAL YR 1970 TOTAL 27,064 MEAN 74.1 MAX 1,230 MIN 12 CFSM .74 IN 10.07
 WTR YR 1971 TOTAL 31,237 MEAN 85.6 MAX 1,590 MIN 13 CFSM .86 IN 11.62

PEAK DISCHARGE (BASE, 1,500 CFS).--Feb. 23 (0345) 1,940 cfs (13.54 ft).

03357000 White River at Spencer, Ind.

LOCATION.--Lat 39°16'49", long 86°45'42", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.29, T.10 N., R.3 W., Owen County, on right bank at downstream side of highway bridge at Spencer, 3.3 miles upstream from McBrides Creek, and at mile 165.9.

DRAINAGE AREA.--2,988 sq mi.

PERIOD OF RECORD.--July 1925 to September 1971 (Discontinued). Monthly discharge only for some periods, published in WSP 1305. Prior to October 1948, published as West Fork White River at Spencer. Gage-height records collected since July 1925 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 526.04 ft above mean sea level. Prior to Dec. 26, 1940, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--46 years, 2,961 cfs (unadjusted) (13.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 28,400 cfs Feb. 23 (gage height, 20.18 ft); minimum daily, 456 cfs Oct. 6.
Period of record: Maximum discharge, 59,400 cfs May 15, 1933, Jan. 16, 1937 (gage height, 23.2 ft); minimum daily, 135 cfs Sept. 30, Oct. 1, 1941.
Maximum stage known, 28.5 ft Mar. 26, 1913, from floodmarks (discharge, 100,000 cfs).

REMARKS.--Records excellent. Natural flow of stream affected by storage reservoirs.

REVISIONS (WATER YEARS).--WSP 823: 1933. WSP 873: 1938. WSP 1335: 1930-31(M), 1933(M), 1937, 1938(M), 1943. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	552	865	915	980	607	17,000	1,047	997	1,617	1,250	1,040	512
2	521	890	895	345	520	8,740	1,050	940	1,650	1,100	910	434
3	494	930	920	550	510	6,470	2,120	915	2,530	980	815	434
4	477	1,050	920	4,300	1,300	5,300	1,990	895	2,520	905	790	629
5	459	1,090	1,070	5,750	9,050	4,590	1,930	900	2,390	860	760	506
6	456	1,160	970	4,160	12,900	4,150	1,910	930	2,010	815	725	549
7	463	1,070	890	2,240	11,900	4,760	1,720	1,590	1,700	790	705	556
8	463	980	845	2,150	9,190	4,990	1,670	3,290	4,300	755	675	945
9	512	975	910	1,740	4,480	4,810	1,540	4,530	3,300	725	642	325
10	740	890	775	1,550	2,550	4,440	1,440	4,340	3,260	710	647	950
11	1,037	945	770	1,450	2,290	4,130	1,470	3,980	2,440	830	690	920
12	795	990	810	1,370	2,400	4,100	1,350	3,910	2,470	1,410	780	740
13	855	960	950	1,310	3,670	4,130	1,320	5,340	3,350	1,170	720	705
14	1,037	835	1,010	1,350	3,140	4,400	1,350	3,540	4,130	1,070	670	575
15	1,470	955	945	1,440	2,610	5,170	1,500	2,940	3,290	945	656	633
16	1,250	900	1,070	1,250	2,270	6,150	1,410	2,570	2,980	910	765	597
17	1,300	855	1,490	1,140	3,030	5,240	1,350	2,220	2,620	915	675	566
18	1,140	825	1,660	1,080	8,090	5,790	1,290	2,030	2,070	925	624	557
19	975	790	1,430	900	4,080	4,940	1,250	1,960	1,640	1,320	588	525
20	900	1,040	1,290	950	12,700	4,650	1,270	1,950	1,470	1,170	557	552
21	505	1,730	1,230	890	17,300	4,540	1,190	1,800	1,600	930	552	320
22	895	1,500	1,460	915	22,300	4,460	1,160	1,620	1,750	800	539	945
23	320	1,460	1,940	875	26,100	3,670	1,190	1,510	1,900	745	516	315
24	790	1,370	1,770	865	26,200	3,480	1,110	1,510	1,520	725	530	770
25	755	1,160	1,630	860	19,000	3,040	1,060	2,560	1,370	1,910	548	730
26	715	1,060	1,530	850	13,200	2,790	1,010	3,350	1,310	1,410	593	740
27	640	985	1,420	790	11,000	2,570	985	3,280	1,150	1,070	620	930
28	590	940	1,260	765	11,570	2,350	995	3,180	1,020	1,030	557	920
29	765	925	1,160	750	-----	2,170	1,130	2,630	965	1,040	525	795
30	650	975	1,090	745	-----	2,100	1,030	2,130	1,010	1,350	498	795
31	890	-----	1,020	700	-----	1,950	-----	1,900	-----	1,130	498	-----
TOTAL	24,747	30,630	36,005	47,820	249,290	142,300	42,300	74,930	65,775	31,650	20,410	21,344
MEAN	799	1,121	1,161	1,543	8,903	4,530	1,410	2,419	2,153	1,021	658	711
MAX	1,490	1,770	1,940	6,750	26,200	10,000	2,120	5,340	4,300	1,910	1,040	950
MIN	456	790	770	700	510	1,060	985	895	965	710	498	434
CFSM	.27	.34	.39	.52	2.98	1.54	.47	.91	.73	.34	.22	.24
IN.	.31	.38	.45	.60	3.10	1.77	.53	.93	.92	.39	.25	.27

CAL YR 1970 TOTAL 954,677 MEAN 2,342 MAX 20,400 MIN 456 CFSM .78 IN 10.64
WTF YR 1971 TOTAL 787,241 MEAN 2,157 MAX 26,200 MIN 456 CFSM .72 IN 9.90

PEAK DISCHARGE (BASE, 11,000 CFS).--Feb. 6 (1500) 13,400 cfs (15.23 ft). Feb. 23 (2400) 28,400 cfs (20.18 ft).

WABASH RIVER BASIN

03357350 Plum Creek near Bainbridge, Ind.

LOCATION.--Lat 39°45'42", long 86°43'46", In SW 1/4 sec. 3, T. 15 N., R. 3 W., Putnam County, on right upstream wingwall of bridge on U.S. Highway 36, 0.5 mile west of Groveland, and 4.5 miles east of Bainbridge.

DRAINAGE AREA.--3.00 sq mi.

PERIOD OF RECORD.--July 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 828.44 ft above mean sea level (Indiana State Highway Commission bench mark).

EXTREMES.--Current year: Maximum discharge, 632 cfs July 24 (gage height, 5.29 ft); no flow Oct. 1-7.

Period of record: Maximum discharge, 632 cfs July 24, 1971 (gage height, 5.29 ft); no flow at times during August, September and October 1970.

REVISIONS.--Figures of maximum discharge for the period July to September 1969 and water year 1970 have been revised to 230 cfs Sept. 17, 1969 (gage height, 3.44 ft) and 202 cfs April 24, 1970 (gage height, 3.34 ft), superseding figures published in WRD Ind. 1969 and 1970.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	.05	.64	.54	.08	3.9	2.7	.27	1.6	.06	1.1	.04
2	0	.44	.52	.57	.06	3.3	2.6	.31	2.9	.05	.80	.04
3	C	1.3	.54	1.7	.05	2.3	1.8	.31	2.4	.04	.64	.04
4	0	.67	.54	5.5	119	2.1	1.5	.31	1.3	.04	.50	.04
5	0	.44	.44	2.5	29	2.1	1.4	.40	1.1	.12	.42	.03
6	0	.33	.34	1.2	2.9	4.6	1.3	2.9	.82	.07	.36	.04
7	0	.26	.29	.86	1.6	3.5	1.2	7.3	.86	.05	.30	.04
8	.01	.18	.33	.70	1.2	2.8	1.1	6.6	.99	.07	.25	.03
9	.08	.22	.36	.64	.85	3.1	.99	3.3	.67	5.5	.40	.03
10	.09	.73	.34	.60	.73	4.1	.82	2.0	.59	3.7	.66	.03
11	.04	.52	.38	.60	.79	4.4	.82	1.5	8.1	26	1.0	.03
12	.04	.47	.62	.73	1.9	4.9	.85	3.1	12	3.1	.45	.03
13	.05	.38	.62	.99	1.1	4.9	1.1	1.7	3.0	1.3	.22	.03
14	.22	.33	.47	1.7	.92	9.0	1.1	1.1	1.8	.76	.50	.02
15	.10	.38	.42	.52	.82	9.0	.92	.92	1.1	9.0	1.2	.02
16	.07	.33	1.3	.60	.79	4.9	.82	1.1	.73	5.2	.60	.03
17	.05	.29	1.8	.45	48	4.4	.76	1.2	.54	1.2	.30	.02
18	.04	.29	1.3	.32	26	4.4	.67	.79	.42	.76	.14	.02
19	.03	.29	1.1	.25	57	6.5	.59	.70	.36	37	.09	.07
20	.07	11	.85	.20	18	6.5	.57	.56	.36	3.7	.05	5.5
21	.07	3.3	1.2	.25	8.5	8.0	.59	.49	2.9	1.4	.05	.89
22	.06	2.0	3.1	.30	102	6.2	.47	.49	.59	.82	.04	.40
23	.05	1.3	2.8	.30	5.5	3.5	.44	.54	.40	.79	.04	.24
24	.05	.92	1.8	.24	4.6	2.6	.42	.42	.29	76	.04	.16
25	.05	.85	1.3	.18	4.6	2.3	.36	16	.76	8.0	2.8	3.7
26	.03	.84	1.0	.14	26	2.1	.33	5.9	.33	4.6	.42	2.5
27	.03	.89	.40	.11	11	2.0	.38	3.4	.19	2.3	.19	1.0
28	.07	.70	.68	.10	4.9	1.9	.44	2.1	.12	12	.15	.62
29	.26	.67	.60	.16	-----	1.6	.33	1.4	.08	5.5	.09	.42
30	.10	.64	.56	.21	-----	1.3	.23	1.1	.07	7.6	.05	.31
31	.07	-----	.50	.11	-----	1.3	-----	1.2	-----	1.5	.04	-----
TOTAL	1.73	31.06	27.54	27.67	477.89	123.5	27.66	110.99	47.37	213.23	13.89	16.37
MEAN	.056	1.04	.89	.89	17.1	3.58	.92	3.58	1.58	6.88	.45	.55
MAX	.26	11	3.1	9.5	119	9.0	2.7	42	12	76	2.8	5.5
MIN	0	.05	.29	.10	.05	1.3	.29	.27	.07	.04	.04	.02
CFSM	.02	.35	.30	.30	5.70	1.33	.31	1.19	.53	2.29	.15	.18
IN.	.02	.39	.34	.34	5.93	1.53	.34	1.38	.59	2.64	.17	.20

CAL YR 1970 TOTAL 983.89 MEAN 2.69 MAX 89 MIN 0 CFSM .90 IN 12.16
WTR YR 1971 TOTAL 1,118.90 MEAN 3.07 MAX 119 MIN 0 CFSM 1.02 IN 13.87

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	0945	3.74	298	05-24	1715	3.27	175
02-19	1645	3.24	174	07-19	0530	3.23	169
02-22	0430	3.88	326	07-24	0545	5.29	632

03357500 Big Walnut Creek near Reelsville, Ind.

LOCATION.--Lat 39°32'11", long 86°58'35", in NW¼SW¼ sec.28, T.13 N., R.5 W., Putnam County, on left bank at highway bridge, 1.5 miles southwest of Reelsville, and 3 miles upstream from Mill Creek.

DRAINAGE AREA.--326 sq mi.

PERIOD OF RECORD.--July 1949 to current year. Published as Eel River near Reelsville, October 1952 to September 1956.

GAGE.--Water-stage recorder. Datum of gage is 588.24 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Dec. 10, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years, 324 cfs (13.50 inches per year).

EXTREMES.--Current year: Maximum discharge, 8,050 cfs Feb. 22 (gage height, 14.75 ft); minimum daily, 13 cfs Oct. 5-7.
Period of record: Maximum discharge, 27,400 cfs June 28, 1957 (gage height, 18.63 ft), from rating curve extended above 18,000 cfs on basis of slope-conveyance method; minimum daily, 1.4 cfs Sept. 8, 1954.

REMARKS.--Records good. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1335: 1950. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	19	60	86	76	37	714	215	76	195	76	160	43
2	17	64	82	50	35	588	313	72	349	69	129	43
3	16	98	80	102	35	450	262	68	721	66	108	40
4	14	105	86	542	3,800	400	223	66	388	62	102	38
5	13	100	78	349	4,800	355	203	66	263	68	95	39
6	13	86	72	250	857	394	193	123	203	68	86	39
7	13	74	64	200	448	528	183	274	188	65	80	80
8	20	66	60	175	337	490	170	630	469	57	74	58
9	62	62	64	160	286	397	158	415	255	170	71	47
10	88	82	62	150	253	415	148	265	185	138	83	40
11	50	80	62	140	220	424	138	200	180	434	260	36
12	43	76	70	135	223	441	133	539	773	310	142	34
13	40	70	76	130	215	448	135	328	829	148	94	33
14	66	66	72	168	203	479	160	229	456	100	77	32
15	60	68	66	140	193	668	145	180	630	85	71	31
16	50	64	102	84	180	773	130	153	367	126	71	31
17	44	60	150	75	1,210	563	123	158	248	102	68	29
18	40	56	150	68	2,080	448	118	140	185	86	60	27
19	35	56	135	60	2,750	441	109	118	154	462	55	29
20	41	280	118	55	3,620	469	105	105	176	301	53	232
21	44	469	130	50	1,310	469	102	94	352	132	50	202
22	40	292	203	60	6,100	500	98	86	198	90	48	102
23	37	193	223	66	2,280	415	94	80	142	73	47	71
24	34	158	205	72	972	346	90	379	118	1,470	46	58
25	32	140	160	70	826	307	86	2,160	255	770	67	55
26	31	116	130	64	1,390	286	82	932	152	403	140	162
27	28	107	110	37	1,870	262	80	584	118	270	71	128
28	34	102	100	36	1,010	247	82	397	97	322	57	90
29	86	94	90	35	-----	229	94	304	86	497	50	74
30	80	90	85	45	-----	210	84	248	81	263	46	64
31	68	-----	80	40	-----	195	-----	205	-----	204	43	-----
TOTAL	1,258	3,434	3,251	3,724	37,540	13,391	4,256	9,674	9,303	7,487	2,603	1,986
MEAN	40.6	114	105	120	1,341	432	142	312	310	242	84.0	66.2
MAX	88	469	223	542	6,100	773	313	2,160	956	1,470	260	232
MIN	13	56	60	35	35	195	80	66	81	57	43	27
CFSM	.12	.35	.32	.37	4.11	1.33	.44	.96	.95	.74	.26	.20
IN.	.14	.39	.37	.42	4.28	1.53	.49	1.10	1.06	.85	.30	.23

CAL YR 1970 TOTAL 95,048 MEAN 260 MAX 4,340 MIN 10 CFSM .80 IN 10.85
WTR YR 1971 TOTAL 97,907 MEAN 268 MAX 6,100 MIN 13 CFSM .82 IN 11.17

PEAK DISCHARGE (BASE, 2,800 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	1915	14.02	7,060	05-25	0100	10.02	3,370
02-20	0015	11.95	5,060	07-24	1600	10.19	3,500
02-22	1430	14.75	8,050				

03358000 Mill Creek near Cataract, Ind.

LOCATION.--Lat 39°26'00", long 86°45'48", in NE¼SE¼ sec.32, T.12 N., R.3 W., Owen County, on right bank at downstream side of bridge on State Highway 43, and 3 miles east of Cataract.

DRAINAGE AREA.--245 sq mi.

PERIOD OF RECORD.--July 1949 to current year.

GAGE.--Water-stage recorder. Datum of gage is 706.40 ft above mean sea level. Prior to Nov. 8, 1949, nonrecording gage, and Nov. 8, 1949, to Sept. 22, 1968, water-stage recorder at site 100 ft upstream at same datum.

AVERAGE DISCHARGE.--22 years, 242 cfs (13.41 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,230 cfs Feb. 5 (gage height, 15.46 ft); minimum daily, 5.4 cfs Aug. 24.
Period of record: Maximum discharge, 11,400 cfs June 24, 1960 (gage height, 22.58 ft); minimum daily, 0.1 cfs Sept. 7, 28, 1954.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1505: 1956 (P). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.9	22	28	35	17	427	118	38	66	38	58	8.4
2	6.5	20	27	40	16	340	180	36	79	29	42	9.8
3	6.2	33	25	55	15	266	148	35	153	22	35	9.0
4	5.9	47	45	1,570	1,100	197	116	33	117	19	33	9.4
5	5.7	31	59	725	3,830	175	100	33	83	31	32	9.4
6	5.7	25	37	250	2,650	243	98	78	68	27	33	11
7	5.9	21	24	120	429	494	95	151	114	20	32	73
8	7.3	19	30	80	175	335	87	363	1,610	17	23	35
9	17	17	27	75	140	250	79	184	255	19	19	18
10	51	17	26	70	110	335	72	122	144	42	20	15
11	29	19	25	66	85	399	64	97	114	230	112	12
12	15	19	34	62	188	346	64	553	634	167	75	11
13	12	17	56	60	329	298	68	317	261	62	30	11
14	32	18	51	151	178	253	86	172	309	36	22	10
15	49	17	41	113	124	456	77	120	253	40	19	9.4
16	27	18	72	45	98	406	69	98	297	115	23	8.8
17	16	18	280	37	1,220	246	64	97	133	61	14	8.6
18	12	17	184	33	2,110	201	62	88	94	96	9.6	8.2
19	11	17	132	30	1,310	260	56	73	75	411	6.8	8.2
20	12	316	97	27	2,650	359	52	63	62	180	6.4	36
21	16	194	97	25	1,220	394	51	55	95	69	6.0	101
22	17	89	266	30	3,130	387	50	49	73	43	6.0	37
23	16	50	288	35	3,780	260	44	48	52	36	5.8	23
24	18	25	162	35	1,120	195	42	118	42	311	5.4	17
25	18	28	100	35	513	172	40	619	179	251	8.0	16
26	16	27	70	30	1,320	163	38	267	118	93	62	57
27	16	29	50	20	1,910	149	39	152	52	89	19	57
28	18	26	45	17	687	143	78	114	34	109	12	31
29	30	24	40	17	-----	132	56	94	28	295	9.6	23
30	47	30	38	20	-----	116	42	81	30	116	8.6	20
31	32	-----	37	18	-----	110	-----	71	-----	85	8.0	-----
TOTAL	577.1	1,250	2,493	3,926	30,458	8,507	2,235	4,419	5,624	3,159	795.2	703.2
MEAN	18.6	41.7	80.4	127	1,088	274	74.5	143	187	102	25.7	23.4
MAX	51	316	288	1,570	3,830	494	180	619	1,610	411	112	101
MIN	5.7	17	24	17	15	110	38	33	28	17	5.4	8.2
CFSM	.08	.17	.33	.52	4.44	1.12	.30	.58	.76	.42	.10	.10
IN.	.09	.19	.38	.60	4.62	1.29	.34	.67	.85	.48	.12	.11

CAL YR 1970 TOTAL 69,222.4 MEAN 190 MAX 3,510 MIN 5.7 CFSM .78 IN 10.51
WTR YR 1971 TOTAL 64,146.5 MEAN 176 MAX 3,830 MIN 5.4 CFSM .72 IN 9.74

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	1845	15.46	4,230	02-23	0530	15.28	4,120
02-20	1615	13.05	2,780				

03358900 Cagles Mill Lake near Manhattan, Ind.
(Formerly published as Cagles Mill Reservoir near Manhattan, Ind.)

LOCATION.--Lat 39°29'14", long 86°55'02", in NE¼NW¼ sec.13, T.12 N., R.5 W., Putnam County, in discharge tower of reservoir on Mill Creek, 1.5 miles upstream from Deer Creek, 2.8 miles above mouth, and 5.8 miles south of Manhattan.

DRAINAGE AREA.--293 sq mi.

PERIOD OF RECORD.--July 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 581.83 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 73,090 acre-ft Mar. 1 (elevation, 660.08 ft); minimum, 27,020 acre-ft Mar. 17 (elevation, 635.93 ft). Pool lowered to elevation, 629.81 ft Nov. 23, 24 (capacity, 19,210 acre-ft) during period of inspection of Cunot Docks.

Period of record: Maximum contents, 127,760 acre-ft May 15, 1961 (elevation, 679.30 ft); minimum, 26,370 acre-ft Dec. 5, 1968 (elevation, 635.46 ft). Pool lowered to elevation, 629.70 ft Jan. 5, 1955 (capacity, 19,090 acre-ft) during period of construction of recreational facilities.

REMARKS.--Reservoir is formed by earth and rockfill dam. Releases normally controlled by three gates, 5 ft wide and 10 ft high, in 12 ft by 12 concrete lined tunnel 496 ft long through right abutment. Minimum design capacity is 27,110 acre-ft (elevation, 636 ft). Capacity at uncontrolled spillway elevation (704 ft) is 228,000 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on July 6, 1953.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	630.04	19,470	-
Oct. 31.....	629.86	19,270	-200
Nov. 30.....	630.30	19,780	+510
Dec. 31.....	635.49	26,410	+6,630
Calendar year 1970.....	-	-	-800
Jan. 31.....	636.03	27,160	+750
Feb. 28.....	659.93	72,740	+45,580
Mar. 31.....	636.23	27,440	-45,300
Apr. 30.....	636.05	27,180	-200
May 31.....	636.13	27,300	+120
June 30.....	636.35	27,610	+310
July 31.....	636.10	27,250	-360
Aug. 31.....	636.15	27,320	+70
Sept. 30.....	636.10	27,250	-70
Water year 1971	-	-	+7,780

WABASH RIVER BASIN

03359000 Mill Creek near Manhattan, Ind.

LOCATION.--Lat 39°29'22", long 86°55'50", in SW¼SE¼ sec.11, T.12 N., R.5 W., Putnam County, on left bank 200 ft downstream from Cagles Mill, 0.8 mile downstream from Cagles Mill Lake, 0.8 mile upstream from Deer Creek, and 5.8 miles south of Manhattan.

DRAINAGE AREA.--294 sq mi.

PERIOD OF RECORD.--May to September 1931 (fragmentary), October 1938 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage 581.83 ft above mean sea level. See WSP 1725 for history of changes prior to May 12, 1941.

AVERAGE DISCHARGE.--33 years (1938 to current year), 282 cfs (13.04 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,430 cfs Feb. 10 (gage height, 7.68 ft); maximum gage height, 12.00 ft Feb. 4 (backwater from Deer Creek); minimum daily discharge, 0.75 cfs Oct. 7.

Period of record: Maximum discharge, 8,960 cfs Jan. 5, 1950 (gage height, 18.38 ft); no flow Aug. 7, 1953.

REMARKS.--Records good. Flow regulated by Cagles Mill Lake (see sta 03358900).

REVISIONS (WATER YEARS).--WSP 1335: 1940-41. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	543	36	2.2	2.4	26	900	137	39	34	26	77	16
2	115	19	2.2	2.3	2.0	1,850	201	39	89	26	44	32
3	13	25	2.6	3.7	3.0	1,370	201	40	105	26	25	38
4	3.9	26	2.5	72	14	1,430	201	40	285	26	25	39
5	1.0	66	2.5	110	115	2,040	133	41	164	26	64	38
6	1.5	73	2.4	435	120	1,610	105	58	105	26	43	39
7	2.75	15	2.3	1,400	122	1,670	105	110	113	25	14	40
8	4.9	15	2.3	462	124	2,060	105	235	151	25	14	41
9	31	10	2.3	105	1,240	2,130	105	300	465	25	14	43
10	75	61	2.3	105	2,360	2,210	105	404	1,400	34	14	43
11	58	30	2.4	105	2,270	2,160	97	295	1,110	78	70	36
12	17	25	2.6	105	2,210	2,100	80	375	628	91	89	20
13	16	10	2.5	105	1,600	2,040	80	664	565	208	84	19
14	47	3.3	2.4	139	555	1,390	81	303	99	204	67	14
15	56	3.0	2.4	205	141	2,000	81	172	233	88	43	3.9
16	50	3.0	4.1	170	108	1,530	99	144	337	89	36	4.1
17	18	4.3	4.2	49	120	660	107	117	375	212	20	3.9
18	18	4.3	2.7	81	148	162	107	59	268	132	10	4.3
19	18	5.0	2.5	52	102	159	107	78	121	160	3.6	4.5
20	20	4.5	2.5	30	110	263	67	67	36	275	3.5	71
21	20	2.0	3.0	26	117	333	34	62	33	273	3.7	104
22	21	1.7	3.3	26	132	415	33	53	77	201	3.7	104
23	20	2.1	2.6	43	124	446	44	54	94	41	3.7	33
24	20	2.1	2.5	41	130	328	74	80	60	22	3.7	3.7
25	20	2.1	2.4	41	130	245	78	345	54	60	3.9	4.8
26	20	2.2	2.4	53	132	193	57	750	102	336	7.1	58
27	21	2.2	2.4	25	132	143	49	425	102	233	14	104
28	36	2.2	2.4	26	160	130	67	105	102	86	14	74
29	40	2.4	2.4	26	-----	104	37	105	74	88	14	26
30	18	2.3	2.4	44	-----	104	75	78	26	223	14	26
31	54	-----	2.4	41	-----	105	-----	25	-----	164	14	-----
TOTAL	1,447.44	467.00	75.7	4,028.4	12,547.0	44,093	2,321	5,702	8,380	3,602	360.0	1,086.2
MEAN	46.7	15.0	2.44	126.7	398.2	1,422	73.3	185.1	273.5	116.2	27.7	36.2
MAX	543	75	4.1	1,430	2,360	2,210	201	750	1,400	336	89	104
MIN	1.0	1.0	2.2	2.3	2.0	104	33	25	26	22	3.6	3.7
CFSD	1.5	1.05	1.05	1.52	1.52	3.74	1.33	1.63	1.75	1.39	1.09	1.12
IN	1.1	1.06	1.05	1.61	1.59	4.31	1.37	1.72	1.06	1.45	1.11	1.14

CAL YR 1971 TOTAL 2,406.43 MEAN 226 MAX 2,410 MIN .33 CFSD .77 IN 10.43
 APR YR 1971 TOTAL 76,013.29 MEAN 238 MAX 2,460 MIN .75 CFSD .71 IN 4.62

NOTE.--No gage-height record Oct. 13 to Nov. 20.

03359500 Deer Creek near Putnamville, Ind.

LOCATION.--Lat 39°34'04", long 86°52'00", in SW 1/4 sec. 16, T.13 N., R.4 W., Putnam County, on right bank at downstream side of bridge on State Highway 243, 0.4 mile southwest of Putnamville, 0.4 mile downstream from small left-bank tributary, and 0.8 mile downstream from Limestone Creek.

DRAINAGE AREA.--59.0 sq mi.

PERIOD OF RECORD.--October 1954 to September 1965, October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 628.00 ft above mean sea level. Prior to July 3, 1957, nonrecording gage, July 4, 1957, to May 10, 1965, water-stage recorder (January 1959 to July 1963 nonrecording gage used below 1.7 ft gage height), May 11, to Sept. 30, 1965, water-stage recorder at site 100 ft upstream at datum 2.73 ft higher.

AVERAGE DISCHARGE.--15 years (1954-65, 1967-71), 61.1 cfs (14.06 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,110 cfs Feb. 4 (gage height, 13.15 ft); minimum daily, 0.38 cfs Oct. 7.
Period of record: Maximum discharge, 10,700 cfs Mar. 4, 1963 (gage height, 12.95 ft, datum then in use); no flow Oct. 1-10, 1954.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	9.6	9.6	8.0	4.0	89	36	11	13	14	14	5.4
2	1.2	12	8.9	8.9	4.0	76	59	11	18	6.8	9.5	3.9
3	1.0	29	8.9	15	4.0	61	41	10	42	5.8	7.4	2.3
4	.69	23	32	295	1,900	49	33	9.5	22	5.4	7.4	1.6
5	.57	16	20	51	467	45	29	10	14	6.3	6.8	1.6
6	.47	12	14	60	89	71	29	25	13	6.8	5.8	45
7	.38	9.6	9.6	30	52	99	26	65	38	5.4	4.9	26
8	.59	8.9	8.9	20	49	74	24	89	243	4.4	4.4	8.1
9	14	8.2	9.6	18	87	59	22	41	41	5.4	3.9	4.9
10	20	15	8.9	17	49	87	20	29	24	11	4.9	3.4
11	7.0	14	8.9	16	23	87	18	24	24	102	67	2.7
12	4.9	12	14	15	59	80	18	125	109	33	18	2.3
13	4.5	10	17	14	84	69	20	61	42	14	8.1	1.9
14	23	9.6	14	40	89	63	30	38	42	9.5	5.8	1.6
15	12	17	12	26	25	132	22	29	54	6.8	6.3	1.4
16	5.9	10	51	11	26	107	19	25	44	30	4.4	1.1
17	4.0	8.9	99	9.0	698	67	18	32	23	11	3.4	1.1
18	3.2	8.2	53	8.0	189	56	18	20	16	8.8	3.0	1.1
19	2.8	8.2	40	7.0	536	69	16	16	14	92	1.9	1.1
20	4.0	259	27	6.4	281	80	15	14	11	28	1.9	54
21	5.9	64	42	6.0	109	84	15	13	94	11	1.6	29
22	4.4	35	93	6.4	1,320	78	14	11	28	7.4	1.6	11
23	4.0	20	69	7.0	159	58	14	10	16	5.8	1.6	6.3
24	4.0	14	40	7.0	94	47	13	38	11	23	1.4	4.4
25	3.6	10	25	6.0	102	42	13	140	104	30	1.4	8.8
26	3.6	10	16	5.0	298	41	11	50	35	19	14	30
27	3.6	12	12	4.5	270	38	11	33	16	17	4.9	15
28	5.4	10	10	4.2	117	36	16	25	11	74	2.7	8.1
29	30	10	9.5	4.0	-----	32	13	20	8.8	80	1.9	5.8
30	21	11	9.0	4.5	-----	28	11	16	8.8	30	1.6	4.9
31	13	-----	8.5	4.2	-----	26	-----	14	-----	22	1.4	-----
TOTAL	210.10	691.2	800.3	774.1	7,184.0	2,030	644	1,054.5	1,179.6	725.6	222.9	293.8
MEAN	6.78	23.0	25.8	25.0	257	65.5	21.5	34.0	39.3	23.4	7.19	9.79
MAX	30	259	99	295	1,900	132	59	140	243	102	67	54
MIN	.38	8.2	8.5	4.0	4.0	26	11	9.5	8.8	4.4	1.4	1.1
CFSM	.11	.39	.44	.42	4.36	1.11	.36	.58	.67	.40	.12	.17
IN.	.13	.44	.50	.49	4.53	1.28	.41	.66	.74	.46	.14	.19

CAL YR 1970 TOTAL 18,439.29 MEAN 50.5 MAX 1,330 MIN .38 CFSM .86 IN 11.63
WTR YR 1971 TOTAL 15,810.10 MEAN 43.3 MAX 1,900 MIN .38 CFSM .73 IN 9.97

PEAK DISCHARGE (BASE 2,000 CFS).--Feb. 4 (1445) 4,110 cfs (13.15 ft). Feb. 22 (0530) 3,440 cfs (12.06 ft).

WABASH RIVER BASIN

03360000 Eel River at Bowling Green, Ind.

LOCATION.--Lat 39°23'02", long 87°01'12", in NE¼NE¼ sec.24, T.11 N., R.6 W., Clay County, on left bank 500 ft downstream from bridge on State Highway 46 at Bowling Green, and 0.5 mile downstream from Jordan Creek.

DRAINAGE AREA.--830 sq mi.

PERIOD OF RECORD.--January 1931 to current year. Prior to October 1934, published as "near Centerpoint."

GAGE.--Water-stage recorder. Datum of gage is 548.02 ft above mean sea level (levels by Corps of Engineers). See WSP 1725 for history of changes prior to Dec. 1, 1949.

AVERAGE DISCHARGE.--40 years, 826 cfs (13.51 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,000 cfs Feb. 5 (gage height, 19.27 ft); minimum daily, 47 cfs Oct. 7.
Period of record: Maximum discharge, 34,000 cfs Jan. 4, 1950 (gage height, 23.53 ft); minimum daily, 11 cfs Oct. 7, 8, 1954.
Maximum stage known, about 30.0 ft in 1875, present datum, from information by Corps of Engineers.

REMARKS.--Records good. Flow regulated by Cagles Mill Lake (see sta 03358900).

REVISIONS (WATER YEARS).--WSP 893: 1935, 1937-39. WSP 973: 1937-38, 1939 (M). WSP 1335: 1931 (M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	950	169	149	170	100	1,660	428	179	310	255	358	193
2	305	122	137	165	80	2,680	685	169	556	217	290	106
3	200	185	137	160	80	2,730	589	163	1,780	197	241	107
4	120	197	139	1,740	2,520	2,610	432	157	905	185	221	106
5	80	197	153	838	9,730	2,580	398	155	664	189	221	101
6	51	207	131	915	3,710	2,710	295	215	435	197	229	109
7	47	179	117	1,660	966	2,350	285	420	413	179	177	155
8	51	121	109	1,000	703	3,020	267	1,130	4,950	167	159	151
9	103	117	109	348	915	2,810	255	915	1,280	229	149	122
10	249	187	107	330	2,470	2,920	239	736	2,360	318	157	107
11	163	197	107	303	2,470	2,940	227	673	2,090	453	388	101
12	106	151	121	293	2,480	2,880	203	1,640	2,190	814	380	83
13	91	137	141	285	2,360	2,810	195	1,380	2,350	443	263	76
14	130	114	133	332	1,070	2,780	219	912	2,410	473	225	73
15	195	117	122	403	538	3,040	233	460	1,610	325	177	66
16	159	115	213	365	418	3,130	280	423	1,230	265	165	62
17	107	106	448	263	1,560	2,170	310	383	1,030	355	153	60
18	86	100	308	220	3,890	966	300	350	718	430	126	58
19	82	97	259	180	3,110	915	285	288	580	947	109	58
20	80	625	223	140	5,650	1,030	265	251	398	986	100	259
21	95	598	241	130	2,790	1,100	221	231	1,060	568	95	435
22	88	410	410	140	7,100	1,160	211	209	580	463	92	280
23	82	293	413	170	6,960	1,180	201	197	445	278	91	207
24	79	231	340	210	2,220	986	225	261	388	450	86	114
25	76	201	265	150	1,630	786	221	2,840	453	1,950	85	107
26	73	185	240	160	2,480	676	209	2,240	592	766	171	201
27	71	175	220	120	3,770	634	191	1,610	393	887	143	285
28	76	165	200	110	2,200	583	215	682	340	433	109	247
29	197	157	190	100	-----	490	235	532	308	880	99	163
30	183	159	185	120	-----	460	229	453	241	613	92	130
31	147	-----	180	140	-----	435	-----	350	-----	577	88	-----
TOTAL	4,530	6,014	6,247	11,700	73,970	57,221	8,548	20,634	33,059	15,489	5,438	4,322
MEAN	146	200	202	377	2,642	1,846	285	666	1,102	500	175	144
MAX	950	625	448	1,740	9,730	3,130	685	2,840	4,950	1,950	388	435
MIN	47	97	107	100	80	435	191	155	241	167	85	59
CFSM	.18	.24	.24	.45	3.18	2.22	.34	.80	1.33	.60	.21	.17
IN.	.20	.27	.28	.52	3.32	2.56	.38	.92	1.48	.69	.24	.19

CAL YR 1970 TOTAL 249,023 MEAN 682 MAX 6,770 MIN 38 CFSM .82 IN 11.16
WTR YR 1971 TOTAL 247,172 MEAN 677 MAX 9,730 MIN 47 CFSM .82 IN 11.09

03360500 White River at Newberry, Ind.

LOCATION.--Lat 38°55'42", long 87°01'00", in NE¼NE¼ sec.25, T.6 N., R.6 W., Greene County, on right bank 500 ft upstream from bridge on State Highway 57 at Newberry, 2.3 miles downstream from Doans Creek, and at mile 118.0.

DRAINAGE AREA.--4,688 sq mi.

PERIOD OF RECORD.--September 1928 to current year. Prior to October 1948, published as West Fork White River at Newberry.

GAGE.--Water-stage recorder. Datum of gage is 465.59 ft above mean sea level. Prior to Oct. 21, 1928, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--43 years, 4,496 cfs (13.02 inches per year) (unadjusted).

EXTREMES.--Current year: Maximum discharge, 34,500 cfs Feb. 25 (gage height, 19.64 ft); minimum daily, 616 cfs Oct. 7.

Period of record: Maximum discharge, 76,900 cfs May 21, 1943 (gage height, 24.19 ft); minimum daily, 200 cfs Oct. 1, 1941.

Maximum stage since at least 1875, 27.5 ft Mar. 27, 1913, from floodmarks by State Highway Department of Indiana (discharge, 130,000 cfs).

REMARKS.--Records good. Flow slightly regulated by four reservoirs above station.

REVISIONS (WATER YEARS).--WSP 873: 1937(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,540	1,320	1,330	1,420	900	17,900	2,980	1,560	2,630	1,620	1,870	681
2	1,530	1,260	1,310	1,360	800	15,500	3,100	1,510	2,490	1,750	1,610	735
3	1,190	1,360	1,260	1,330	780	13,200	3,310	1,450	6,700	1,630	1,410	802
4	858	1,410	1,270	7,380	2,000	10,800	3,340	1,370	8,720	1,480	1,290	654
5	711	1,510	1,310	11,900	5,860	9,090	3,090	1,330	4,810	1,410	1,210	752
6	651	1,510	1,370	9,050	14,300	8,200	2,950	1,650	3,830	1,350	1,140	765
7	616	1,550	1,260	5,150	16,800	9,250	2,860	2,500	3,180	1,290	1,110	829
8	619	1,470	1,170	4,740	17,600	9,220	2,740	4,680	3,790	1,230	1,050	800
9	714	1,350	1,130	4,280	13,000	8,970	2,630	5,540	8,760	1,190	992	1,110
10	909	1,290	1,090	3,080	9,000	8,720	2,470	5,610	7,150	1,220	979	1,010
11	1,140	1,310	1,060	2,350	6,700	8,680	2,340	5,240	5,510	1,440	955	1,160
12	1,340	1,370	1,110	2,240	5,910	8,360	2,270	4,900	5,020	1,630	1,160	1,020
13	1,190	1,300	1,190	2,140	7,530	8,030	2,210	6,130	5,560	2,260	1,300	897
14	1,720	1,240	1,280	2,390	7,130	7,810	2,190	6,370	6,410	1,900	1,140	837
15	2,210	1,260	1,320	2,480	5,250	8,560	2,230	4,780	7,400	1,710	1,030	795
16	1,940	1,290	1,360	2,200	4,040	10,100	2,330	3,840	5,840	1,540	994	741
17	1,680	1,280	2,490	1,900	5,550	10,400	2,220	3,370	4,520	1,420	1,070	700
18	1,620	1,220	2,800	1,700	10,100	9,460	2,150	3,020	3,950	1,650	948	659
19	1,450	1,160	2,520	1,600	13,500	7,830	2,070	2,810	3,240	2,590	882	641
20	1,320	2,420	2,140	1,470	17,500	6,880	2,010	2,670	2,720	3,380	838	666
21	1,270	3,130	1,960	1,470	19,000	6,550	1,970	2,590	2,750	2,570	810	836
22	1,250	2,920	2,640	1,370	23,600	6,390	1,890	2,410	4,150	1,910	771	1,300
23	1,210	2,440	3,080	1,360	29,100	6,190	1,930	2,260	3,300	1,590	755	1,310
24	1,120	2,110	2,990	1,330	32,000	5,660	1,790	2,210	2,710	1,410	713	1,100
25	1,070	1,820	2,580	1,300	34,100	5,000	1,730	3,590	2,360	1,350	703	993
26	1,010	1,650	2,210	1,350	30,600	4,440	1,660	5,500	2,230	3,260	702	1,080
27	955	1,550	2,010	1,200	25,300	4,060	1,610	5,800	2,300	2,360	723	1,040
28	927	1,470	1,840	1,130	20,600	3,750	1,570	5,090	1,960	2,190	830	1,220
29	1,210	1,380	1,700	1,080	-----	3,540	1,540	4,220	1,760	1,960	743	1,150
30	1,490	1,340	1,600	1,120	-----	3,260	1,610	3,510	1,650	2,170	692	1,060
31	1,480	-----	1,490	1,050	-----	3,100	-----	2,990	-----	2,190	661	-----
TOTAL	38,030	47,690	53,870	83,920	382,550	248,890	68,690	110,500	127,410	56,650	31,021	27,383
MEAN	1,227	1,590	1,738	2,707	13,660	8,029	2,290	3,565	4,247	1,827	1,001	913
MAX	2,210	3,130	3,080	11,900	34,100	17,900	3,340	6,370	8,760	3,380	1,870	1,310
MIN	616	1,160	1,060	1,050	780	3,100	1,540	1,330	1,650	1,190	661	641
CFSM	.26	.34	.37	.58	2.91	1.71	.49	.76	.91	.39	.21	.19
IN.	.30	.38	.43	.67	3.04	1.97	.55	.98	1.01	.45	.25	.22
CAL YR 1970	TOTAL 1,392,240	MEAN 3,814	MAX 26,800	MIN 616	CFSM .81	IN 11.05						
WTR YR 1971	TOTAL 1,276,604	MEAN 3,498	MAX 34,100	MIN 616	CFSM .75	IN 10.13						

03361000 Big Blue River at Carthage, Ind.

LOCATION.--Lat 39°44'38", long 85°34'33", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec. 18, T.15 N., R.9 E., Rush County, on right bank 300 ft upstream from highway bridge, 0.5 mile northwest of Carthage, and 2.2 miles downstream from Three Mile Creek.

DRAINAGE AREA.--184 sq mi.

PERIOD OF RECORD.--October 1950 to current year. Prior to October 1961, published as Blue River at Carthage, Ind.

GAGE.--Water-stage recorder. Datum of gage is 859.33 ft above mean sea level. Prior to July 19, 1951, nonrecording gage at site 300 ft downstream at same datum.

AVERAGE DISCHARGE.--21 years, 189 cfs (13.95 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,570 cfs Feb. 5 (gage height, 9.14 ft); minimum daily, 39 cfs Aug. 30, Sept. 1, 2. Period of record: Maximum discharge, 12,900 cfs Mar. 4, 1963 (gage height, 14.62 ft, from floodmarks), from rating curve extended above 6,200 cfs; minimum daily, 18 cfs Sept. 18, 1955.

REMARKS.--Records good.

REVISIONS.--WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	51	65	70	70	40	305	125	78	121	89	63	39
2	51	66	68	66	40	262	141	77	278	84	60	39
3	49	73	76	62	40	232	127	80	205	80	60	50
4	47	67	107	752	1,310	194	116	77	156	75	65	51
5	47	66	91	411	2,980	177	114	77	128	75	62	44
6	48	64	79	205	604	205	114	247	116	77	57	320
7	47	63	73	150	280	318	109	260	118	74	56	562
8	48	62	73	130	179	240	107	868	960	72	53	152
9	54	62	73	110	130	196	101	323	283	74	51	101
10	63	74	70	100	100	216	98	225	181	109	54	84
11	54	68	70	90	146	252	95	183	148	96	78	181
12	77	67	95	90	469	294	95	496	792	78	57	216
13	101	65	104	57	378	388	98	320	383	74	53	125
14	157	69	90	163	185	315	109	221	223	69	50	96
15	114	78	85	123	120	414	98	174	172	66	49	81
16	87	72	95	95	107	368	95	150	143	74	49	74
17	78	71	149	80	1,020	262	93	145	125	68	47	71
18	72	69	125	75	1,170	225	90	130	110	65	47	68
19	68	68	109	65	991	262	87	139	835	66	46	65
20	72	116	94	60	1,910	278	86	172	838	63	44	136
21	76	102	94	60	532	229	86	123	400	62	44	132
22	71	88	182	55	2,330	207	86	109	234	59	44	100
23	68	77	188	55	1,190	188	83	100	174	57	46	84
24	65	73	138	50	439	168	83	118	143	112	44	77
25	63	70	116	50	332	156	80	854	127	81	51	77
26	62	69	95	50	706	152	78	330	114	74	49	130
27	62	68	90	45	739	143	83	221	103	71	44	105
28	63	70	84	45	412	137	93	177	96	71	43	89
29	76	68	80	45	-----	132	83	150	105	98	41	78
30	71	71	76	45	-----	127	80	128	92	74	39	72
31	67	-----	74	45	-----	123	-----	116	-----	69	40	-----
TOTAL	2,129	2,161	3,013	3,579	18,879	7,165	2,933	6,908	7,903	2,356	1,586	3,499
MEAN	68.7	72.0	97.2	115	674	231	97.8	223	263	76.0	51.2	117
MAX	157	116	188	792	2,980	414	141	894	960	112	78	562
MIN	47	62	68	45	40	123	78	77	92	57	39	39
CFSM	.37	.39	.53	.63	3.66	1.26	.53	1.21	1.43	.41	.28	.64
IN.	.43	.44	.61	.72	3.82	1.45	.59	1.40	1.60	.48	.32	.71

CAL YR 1970 TOTAL 53,588 MEAN 147 MAX 2,550 MIN 45 CFSM .80 IN 10.83
WTR YR 1971 TOTAL 62,111 MEAN 170 MAX 2,980 MIN 39 CFSM .92 IN 12.56

PEAK DISCHARGE (BASE, 2,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	1000	9.14	3,570	02-20	0600	8.13	2,600
02-17	2400	7.41	2,100	02-22	1600	8.91	3,310

03361500 Big Blue River at Shelbyville, Ind.

LOCATION.--Lat 39°31'45", long 85°46'55", in SE¼SE¼ sec.31, T.13 N., R.7 E., Shelby County, on left bank 0.2 mile downstream from bridge on U.S. Highway 421 at Shelbyville and 0.6 mile downstream from Little Blue River.

DRAINAGE AREA.--421 sq mi.

PERIOD OF RECORD.--September 1943 to current year. Prior to October 1961, published as Blue River at Shelbyville.

GAGE.--Water-stage recorder. Datum of gage is 737.67 ft above mean sea level. Prior to Oct. 1, 1953, nonrecording gage at bridge 0.2 mile upstream at datum 3.5 ft higher.

AVERAGE DISCHARGE.--28 years, 450 cfs (14.54 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,220 cfs Feb. 23 (gage height, 13.18 ft); minimum daily, 64 cfs Oct. 5, 6, 7.
Period of record: Maximum discharge, 15,800 cfs Mar. 5, 1963 (gage height, 17.70 ft); minimum daily, 32 cfs Oct. 2, 1953.
Flood in March 1913 reached a stage of about 20.2 ft, from floodmarks.

REMARKS.--Records good. Records of suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1505: 1944. WSP 1909: 1959(M). WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	69	108	145	140	85	1,050	250	138	237	173	111	67
2	69	108	142	130	80	832	274	134	342	156	104	67
3	67	107	136	120	80	696	264	134	422	142	98	68
4	65	112	149	1,100	940	556	237	132	320	134	102	74
5	64	107	183	1,560	4,980	461	220	134	264	127	101	76
6	64	104	165	926	5,040	476	215	296	229	125	97	77
7	64	103	145	552	1,110	888	211	680	323	124	92	500
8	65	100	135	400	620	808	202	1,180	876	118	89	296
9	72	101	133	300	360	588	196	1,050	808	115	87	165
10	73	102	130	260	320	556	186	664	428	165	84	122
11	78	110	128	230	290	800	177	476	315	467	91	117
12	84	107	136	213	624	832	175	616	368	220	102	307
13	114	106	170	205	1,490	884	179	808	997	156	88	211
14	163	111	183	353	1,100	824	188	524	524	132	84	148
15	234	126	169	401	450	880	184	395	368	122	82	120
16	174	132	179	258	310	1,060	175	331	296	117	80	104
17	137	127	297	210	700	772	171	293	239	130	77	97
18	113	124	332	170	3,650	596	169	266	207	152	76	93
19	109	121	274	150	2,370	604	160	247	291	146	76	91
20	111	216	230	140	4,620	736	156	312	1,260	122	75	109
21	112	286	220	130	3,200	632	158	269	979	111	74	171
22	113	236	410	120	4,140	528	156	218	724	107	73	148
23	109	196	676	120	6,010	455	152	198	422	102	74	124
24	106	165	504	110	1,910	395	148	220	318	107	73	111
25	103	154	383	110	1,110	353	146	1,140	261	171	73	108
26	101	151	288	100	1,240	334	140	1,060	226	120	78	127
27	97	145	250	95	2,290	315	138	620	200	114	77	169
28	97	142	200	95	1,300	301	160	434	196	125	72	144
29	106	142	180	90	-----	288	154	350	242	175	69	122
30	115	143	160	90	-----	266	142	296	207	144	68	120
31	112	-----	150	85	-----	250	-----	258	-----	118	67	-----
TOTAL	3,165	4,092	6,982	8,963	50,419	19,016	5,483	13,873	12,889	4,537	2,594	4,253
MEAN	102	136	225	289	1,801	613	183	448	430	146	83.7	142
MAX	234	286	676	1,560	6,010	1,060	274	1,180	1,260	467	111	500
MIN	64	100	128	85	80	250	138	132	196	102	67	67
CFSM	.24	.32	.53	.69	4.28	1.46	.43	1.06	1.02	.35	.20	.34
IN.	.28	.36	.62	.79	4.46	1.68	.48	1.23	1.14	.40	.23	.38

CAL YR 1970 TOTAL 119,704 MEAN 328 MAX 5,030 MIN 64 CFSM .78 IN 10.58
WTR YR 1971 TOTAL 136,266 MEAN 373 MAX 5,010 MIN 64 CFSM .89 IN 12.04

PEAK DISCHARGE (BASE, 3,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-06	0200	12.95	5,950	02-23	0700	13.18	6,220
02-20	1700	11.93	4,940				

WABASH RIVER BASIN

03361650 Sugar Creek at New Palestine, Ind.

LOCATION.--Lat 39°42'51", long 85°53'08", in SE¼SW¼ sec.29, T.15 N., R.6 E., Hancock County, on left bank 10 ft downstream from bridge on County Road 450 West, 0.5 mile south of New Palestine, 3 miles upstream from Little Sugar Creek, and 37.3 miles upstream from mouth.

DRAINAGE AREA.--93.9 sq mi.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 786.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,570 cfs Feb. 4 (gage height, 8.51 ft); minimum daily, 3.2 cfs Oct. 7.
Period of record: Maximum discharge, 1,740 cfs Feb. 2, 1968 (gage height, 9.34 ft), minimum daily, 3.2 cfs Oct. 7, 1970.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.4	16	12	30	20	253	46	20	30	45	20	6.5
2	4.0	16	12	28	19	190	48	20	31	25	17	13
3	3.6	17	12	26	18	153	45	14	42	22	15	20
4	3.6	16	37	350	500	117	41	18	34	20	14	12
5	3.6	15	44	425	1,070	96	38	18	29	20	14	4.5
6	3.6	15	43	240	916	108	37	33	24	18	13	20
7	3.2	14	29	154	344	189	36	148	25	17	12	10
8	3.6	13	23	138	132	187	35	237	126	17	11	27
9	7.0	12	20	80	75	130	33	248	190	17	11	17
10	9.5	15	18	65	65	127	31	151	91	20	13	20
11	7.5	15	17	50	55	165	29	104	60	25	12	17
12	9.5	16	29	45	70	181	29	111	132	24	11	19
13	12	16	55	45	148	189	29	159	330	22	10	14
14	17	17	61	62	113	183	32	117	213	18	9.5	13
15	16	17	46	60	72	192	31	86	111	15	9.5	14
16	14	15	44	51	50	240	29	69	77	15	4.0	12
17	12	14	78	45	282	174	29	61	58	17	4.0	12
18	11	14	81	40	588	130	27	53	45	15	4.5	11
19	9.0	14	69	40	721	130	25	47	39	14	4.0	10
20	11	30	52	35	1,120	148	25	42	133	13	7.5	15
21	12	37	44	35	892	130	24	37	213	12	7.5	15
22	11	32	95	32	930	110	24	33	138	10	7.0	15
23	11	26	133	30	899	93	23	29	80	11	4.0	15
24	10	24	115	28	504	80	22	33	55	23	4.0	11
25	10	16	84	28	244	70	21	58	40	28	10	14
26	9.5	15	60	27	390	66	21	66	30	25	4.5	17
27	9.0	14	50	25	593	63	21	54	25	22	4.5	14
28	10	14	45	24	415	61	24	43	20	27	4.5	19
29	15	14	40	23	-----	55	23	37	35	37	7.5	20
30	17	13	35	22	-----	51	22	33	90	30	7.0	17
31	17	-----	32	21	-----	46	-----	30	-----	24	7.0	-----
TOTAL	296.6	522	1,515	2,304	11,245	4,107	900	2,213	2,554	650	324.5	473.0
MEAN	9.57	17.4	48.9	74.3	402	132	30.0	71.4	85.1	21.0	10.5	15.8
MAX	17	37	133	425	1,120	253	48	248	330	45	20	30
MIN	3.2	12	12	21	18	46	21	18	20	11	7.0	4.5
CFSM	.10	.19	.52	.79	4.28	1.41	.32	.76	.91	.22	.11	.17
IN	.12	.21	.60	.91	4.45	1.63	.36	.88	1.01	.26	.13	.19

CAL YR 1970 TOTAL 25,438.4 MEAN 69.7 MAX 856 MIN 3.2 CFSM .74 IN 10.08
WTR YR 1971 TOTAL 27,104.1 MEAN 74.3 MAX 1,120 MIN 3.2 CFSM .79 IN 10.74

PEAK DISCHARGE (BASE, 950 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	1845	8.51	1,570	02-22	1330	7.50	1,140
02-20	0315	7.86	1,280				

03361850 Buck Creek at Acton, Ind.

LOCATION.--Lat 39°39'25", long 85°57'27", in NW¼SE¼ sec.15, T.14 N., R.5 E., Marion County, on left bank 30 ft downstream from McGregor Road Bridge, 0.5 mile east of Acton, and 4.2 miles upstream from mouth.

DRAINAGE AREA.--78.8 sq mi.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 757.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,900 cfs Feb. 5 (gage height, 9.79 ft); minimum daily, 1.2 cfs Oct. 26, 27.
Period of record: Maximum discharge, 5,300 cfs July 20, 1969 (gage height, 14.99 ft); minimum daily discharge, 0.60 cfs Oct. 1, 4, 1967.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	7.9	6.7	18	8.5	163	29	10	18	18	11	6.4
2	7.1	8.4	5.5	17	7.5	140	38	9.9	27	12	8.5	8.2
3	6.7	12	10	16	7.0	111	31	9.9	27	10	8.5	19
4	5.9	10	42	705	600	82	27	9.2	25	8.9	8.2	25
5	5.5	8.4	36	337	1,360	68	24	9.2	20	8.2	7.0	7.9
6	5.5	6.7	25	143	224	108	24	18	17	7.9	6.7	8.2
7	6.7	5.5	17	100	100	212	23	46	18	7.3	6.4	9.9
8	7.1	4.2	14	70	60	143	22	148	37	6.7	5.9	8.2
9	10	3.4	14	50	45	98	20	82	52	6.4	5.4	5.9
10	16	5.9	12	40	35	118	19	51	30	8.2	4.9	4.6
11	7.9	9.2	11	35	30	162	17	38	21	14	6.4	4.2
12	5.1	7.1	30	30	119	148	17	150	41	12	7.3	3.8
13	5.9	6.3	66	25	105	132	19	100	66	9.6	5.1	3.8
14	29	8.4	44	75	69	111	22	64	477	7.9	4.6	3.6
15	21	10	33	52	38	154	18	46	128	7.3	4.6	3.2
16	7.1	11	48	33	30	146	17	38	58	7.6	5.9	2.4
17	4.2	9.6	153	26	474	98	17	33	38	6.7	4.4	3.0
18	2.6	8.8	94	23	496	80	16	28	27	6.1	4.2	3.0
19	1.9	8.4	71	20	623	91	15	25	25	7.9	4.2	2.8
20	2.6	37	51	18	1,260	94	14	23	23	7.6	4.2	7.9
21	7.9	37	50	17	380	82	14	20	32	7.0	4.4	15
22	4.2	22	177	17	1,420	70	15	18	21	5.9	4.2	6.4
23	3.0	15	157	16	589	58	13	17	16	5.4	4.9	4.6
24	4.2	9.2	93	16	233	49	13	20	14	25	4.4	4.0
25	1.9	7.1	68	15	166	44	12	91	12	22	6.4	5.4
26	1.2	6.7	45	14	501	42	11	55	11	12	6.1	13
27	1.2	7.1	35	13	527	38	11	35	9.9	10	6.1	9.6
28	2.6	6.3	30	12	265	38	13	27	9.9	16	5.9	6.7
29	9.2	6.3	25	11	-----	35	13	23	17	46	5.9	5.6
30	16	7.5	21	10	-----	30	11	21	30	19	5.9	4.9
31	10	-----	19	9.5	-----	28	-----	18	-----	15	6.1	-----
TOTAL	226.3	312.4	1,503.2	1,983.5	9,772.0	2,973	555	1,283.2	1,347.8	363.6	183.7	216.2
MEAN	7.30	10.4	48.5	64.0	349	95.9	18.5	41.4	44.9	11.7	5.93	7.21
MAX	29	37	177	705	1,420	212	38	150	477	46	11	25
MIN	1.2	3.4	5.5	9.5	7.0	28	11	9.2	9.9	5.4	4.2	2.4
CFSM	.09	.13	.62	.81	4.43	1.22	.23	.53	.57	.15	.08	.09
IN.	.11	.15	.71	.94	4.61	1.40	.26	.61	.64	.17	.09	.10

CAL YR 1970 TOTAL 20,411.5 MEAN 55.9 MAX 1,280 MIN 1.2 CFSM .71 IN 9.64
WTR YR 1971 TOTAL 20,719.9 MEAN 56.8 MAX 1,420 MIN 1.2 CFSM .72 IN 9.78

PEAK DISCHARGE (BASE, 1,000 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0330	9.79	1,900	02-22	1430	9.65	1,820
02-17	2130	7.65	1,140	06-14	1645	9.18	1,630
02-20	0500	9.46	1,740				

WABASH RIVER BASIN

03362000 Youngs Creek near Edinburg, Ind.

LOCATION.--Lat 39°25'08", long 86°00'18", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.5, T.11 N., R.5 E., Johnson County, on left bank on upstream side of highway bridge, 0.5 mile southwest of Amity, 2 miles upstream from mouth, and 5 miles northwest of Edinburg.

DRAINAGE AREA.--107 sq mi.

PERIOD OF RECORD.--October 1942 to current year. Prior to December 1942 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 670.20 ft above mean sea level. Prior to June 30, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--29 years, 105 cfs (13.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,490 cfs Feb. 22 (gage height, 8.84 ft); minimum daily, 2.5 cfs Aug. 30.
Period of record: Maximum discharge, 10,700 cfs Jan. 27, 1952 (gage height, 13.4 ft); minimum daily, 0.5 cfs Sept. 29, Oct. 20, 21, 1953.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1335: 1944. WSP 1909: 1958. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	8.9	16	20	10	219	44	20	38	10	5.9	3.5
2	4.3	8.3	15	20	9.0	168	47	20	48	8.6	5.5	3.5
3	4.1	11	14	20	9.0	139	41	19	52	8.0	5.3	4.1
4	3.9	15	12	647	600	110	37	19	47	7.7	5.7	5.9
5	3.9	16	11	341	1,390	95	35	19	38	7.1	6.1	2.9
6	4.3	13	18	148	224	132	35	99	32	7.7	5.3	4.9
7	4.1	11	12	50	95	281	36	121	104	7.1	4.5	8.0
8	4.3	9.2	10	70	65	171	33	235	81	7.1	4.0	4.7
9	5.9	8.6	10	60	55	119	30	114	47	8.0	3.7	4.5
10	11	11	10	50	45	132	28	73	36	7.1	3.5	3.9
11	7.4	11	11	40	40	171	27	59	30	11	3.4	3.7
12	7.7	11	18	35	244	157	27	93	58	9.2	3.3	3.3
13	13	11	27	35	217	132	28	76	101	8.3	3.9	3.1
14	21	12	23	85	104	114	29	53	59	6.8	4.1	3.3
15	22	31	19	65	64	185	28	42	46	6.3	3.5	3.3
16	14	28	30	42	47	166	27	38	38	6.5	3.1	3.1
17	9.2	23	104	42	728	112	26	37	27	5.9	3.1	3.1
18	7.4	19	78	36	745	95	25	32	24	7.1	3.1	2.9
19	6.5	16	59	30	666	112	24	30	23	7.7	3.1	2.9
20	9.2	61	44	22	1,420	114	23	27	21	8.3	3.3	5.3
21	17	64	53	20	394	125	24	25	22	6.5	3.5	5.1
22	14	47	178	18	2,020	112	24	22	22	6.1	3.1	4.1
23	11	30	150	16	1,120	90	23	21	18	5.7	2.9	4.3
24	8.6	23	101	15	362	73	21	50	16	6.5	3.1	3.7
25	7.7	19	73	14	279	65	21	389	17	6.1	3.1	3.5
26	7.1	18	50	13	523	61	21	155	19	6.1	3.3	6.5
27	6.8	17	40	12	569	58	20	92	13	6.1	3.3	4.7
28	6.3	16	30	12	311	55	21	64	13	5.9	3.7	4.9
29	9.2	15	30	11	-----	52	24	50	17	10	3.1	3.9
30	11	16	25	11	-----	48	21	42	15	8.3	2.5	3.7
31	11	-----	25	10	-----	46	-----	37	-----	7.1	3.1	-----
TOTAL	277.4	600.0	1,296	2,050	12,357.0	3,709	850	2,173	1,122	229.9	118.1	124.3
MEAN	8.95	20.0	41.8	66.1	441	120	28.3	70.1	37.4	7.42	3.81	4.14
MAX	22	64	178	647	2,020	281	47	389	104	11	6.1	8.0
MIN	3.9	8.3	10	10	9.0	46	20	19	13	5.7	2.5	2.9
CFSM	.08	.19	.39	.62	4.12	1.12	.26	.66	.35	.07	.04	.04
IN.	.10	.21	.45	.71	4.30	1.29	.30	.76	.39	.08	.04	.04

CAL YR 1970 TOTAL 23,231.6 MEAN 63.6 MAX 1,070 MIN 3.2 CFSM .59 IN 8.08
WTR YR 1971 TOTAL 24,906.7 MEAN 68.2 MAX 2,020 MIN 2.5 CFSM .64 IN 8.66

PEAK DISCHARGE (BASE, 1,300 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0515	8.01	1,960	02-20	0900	7.86	1,870
02-17	2315	6.98	1,490	02-22	2200	8.84	2,490

03362500 Sugar Creek near Edinburg, Ind.

LOCATION.--Lat 39°21'39", long 85°59'51", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.29, T.11 N., R.5 E., Johnson County, on left bank 50 ft upstream from highway bridge in Camp Atterbury, 1.2 miles upstream from confluence with Blue River, and 1.5 miles northwest of Edinburg.

DRAINAGE AREA.--474 sq mi.

PERIOD OF RECORD.--October 1942 to current year. Prior to February 1943 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 646.23 ft above mean sea level. Prior to Oct. 1, 1952, nonrecording gage on downstream side of old highway bridge, 100 ft downstream at same datum.

AVERAGE DISCHARGE.--29 years, 474 cfs (13.56 inches per year).

EXTREMES.--Current year: Maximum discharge, 6,620 cfs Feb. 23 (gage height, 12.31 ft); minimum daily, 40 cfs Oct. 7.
Period of record: Maximum discharge, 27,600 cfs May 29, 1956 (gage height, 18.38 ft); minimum daily, 9.2 cfs Sept. 19, 1954.

REMARKS.--Records good. Records of suspended-sediment loads for current year are published in Part 2 of this report.

REVISIONS.--WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	47	84	104	150	95	1,320	243	121	192	196	93	50
2	47	76	102	140	95	989	253	119	214	148	83	55
3	43	78	98	130	90	794	245	116	224	125	75	63
4	41	87	95	1,100	940	633	228	114	215	113	77	91
5	41	95	131	2,050	4,180	520	211	114	193	104	76	98
6	41	87	145	1,090	4,150	520	209	208	173	98	70	93
7	40	80	136	700	1,760	1,000	205	246	206	94	65	114
8	41	74	118	500	660	950	196	715	252	89	61	123
9	49	73	111	400	428	699	189	710	299	88	60	104
10	65	76	107	350	378	622	180	510	315	88	60	89
11	60	76	107	300	386	818	169	382	234	137	68	74
12	73	78	111	250	515	842	165	378	234	146	63	71
13	84	80	142	239	976	776	167	490	449	116	59	66
14	104	82	225	306	520	699	174	419	516	98	58	66
15	142	102	204	350	394	759	173	326	1,490	90	54	61
16	131	107	201	260	283	908	165	279	564	85	57	55
17	102	102	330	229	1,100	721	158	253	356	84	60	53
18	89	95	406	220	3,240	560	155	232	269	85	58	51
19	80	89	334	200	2,620	555	150	215	225	93	57	50
20	84	171	279	180	4,560	611	144	201	213	107	57	67
21	100	250	257	160	4,560	611	145	183	293	86	55	70
22	102	229	424	140	4,680	553	142	168	345	75	55	77
23	100	174	677	130	6,110	457	137	156	261	70	54	72
24	89	136	510	120	3,480	393	131	162	206	73	52	64
25	82	123	386	120	1,510	351	128	660	182	85	54	63
26	74	111	294	110	1,560	327	124	580	164	106	54	72
27	69	107	250	110	2,860	308	122	382	144	90	58	82
28	67	104	210	100	2,080	294	127	294	132	85	60	82
29	73	102	190	100	-----	284	134	250	240	96	54	74
30	78	102	170	95	-----	268	127	218	287	131	52	69
31	80	-----	150	95	-----	247	-----	197	-----	110	50	-----
TOTAL	2,318	3,230	7,004	10,424	54,230	19,389	5,096	9,398	9,087	3,191	1,909	2,219
MEAN	74.8	108	226	336	1,937	625	170	303	303	103	61.6	74.0
MAX	142	250	677	2,050	6,110	1,320	253	715	1,490	196	93	123
MIN	40	73	95	95	50	247	122	114	132	70	50	50
CFSM	.16	.23	.48	.71	4.09	1.32	.36	.64	.64	.22	.13	.16
IN.	.18	.25	.55	.82	4.26	1.52	.40	.74	.71	.25	.15	.17

CAL YR 1970 TOTAL 119,543 MEAN 328 MAX 3,990 MIN 40 CFSM .69 IN 9.38
WTR YR 1971 TOTAL 127,495 MEAN 349 MAX 6,110 MIN 40 CFSM .74 IN 10.01

PEAK DISCHARGE (BASE, 4,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	1730	10.40	4,490	02-23	0730	12.31	6,620
02-20	1800	11.07	5,090				

03363000 Driftwood River near Edinburg, Ind.

LOCATION.--Lat 39°20'21", long 85°59'11", in NW¼SW¼ sec.4, T.10 N., R.5 E., Bartholomew County, on left bank just downstream from highway bridge, 0.8 mile downstream from confluence of Blue River and Sugar Creek, and 1.5 miles southwest of Edinburg.

DRAINAGE AREA.--1,060 sq mi.

PERIOD OF RECORD.--October 1940 to current year. Prior to July 1941 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 636.99 ft above mean sea level. Prior to Oct. 7, 1941, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--31 years, 1,108 cfs (14.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,900 cfs Feb. 23 (gage height, 13.55 ft); minimum daily, 125 cfs Sept. 1.
Period of record: Maximum discharge, 40,500 cfs Mar. 6, 1963 (gage height, 16.97 ft); minimum daily, 38 cfs Sept. 23, 1941.

Flood in March 1913 reached a stage of 20.3 ft.

REMARKS.--Records good.

REVISIONS.--WRD Ind, 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	151	242	305	390	250	3,670	700	357	595	545	274	125
2	151	239	305	370	250	2,700	710	349	585	426	246	128
3	145	239	298	360	250	2,200	715	341	685	361	229	138
4	143	249	291	1,820	1,470	1,820	680	333	725	325	225	153
5	140	256	337	3,980	6,320	1,510	640	329	645	302	225	162
6	140	246	385	3,230	8,830	1,370	615	465	570	288	219	170
7	138	235	369	2,040	6,960	1,880	595	715	525	274	206	219
8	140	229	333	1,540	2,360	2,330	575	1,540	695	263	197	545
9	148	225	309	1,300	1,600	1,950	555	2,200	1,190	253	191	349
10	165	232	302	950	1,100	1,580	530	1,780	1,190	253	188	267
11	165	229	295	800	900	1,770	500	1,350	873	455	200	225
12	185	235	302	715	1,080	2,050	480	1,120	725	660	194	229
13	203	235	337	655	2,330	2,020	475	1,320	1,110	480	197	361
14	267	242	450	747	2,550	1,960	480	1,360	1,510	373	185	281
15	361	270	445	956	1,840	1,900	490	1,120	2,150	317	176	235
16	394	298	445	796	895	2,240	470	917	1,400	284	173	206
17	313	295	640	655	1,860	2,150	455	791	923	263	167	188
18	267	281	906	570	5,870	1,690	445	710	695	277	165	176
19	242	270	824	485	6,430	1,500	435	630	580	313	159	167
20	246	361	705	440	8,010	1,570	417	580	868	313	156	197
21	256	580	630	410	9,680	1,680	408	585	1,450	288	151	209
22	256	590	868	380	8,820	1,530	408	550	1,390	256	149	263
23	253	485	1,380	360	11,300	1,350	399	500	1,050	239	145	246
24	239	403	1,300	330	9,980	1,180	385	470	791	232	143	216
25	229	357	1,030	310	4,720	1,050	377	1,060	640	239	143	200
26	222	337	796	290	3,390	962	365	2,050	560	305	140	206
27	216	321	660	280	5,410	906	357	1,600	485	274	145	235
28	209	313	580	270	5,410	862	361	1,170	430	253	145	270
29	219	302	520	270	-----	824	385	912	500	274	138	242
30	229	302	460	260	-----	769	377	763	705	337	133	222
31	242	-----	420	260	-----	736	-----	660	-----	313	130	-----
TOTAL	6,674	9,098	17,227	26,219	119,865	51,709	14,784	28,627	26,240	10,035	5,533	6,830
MEAN	215	303	556	846	4,281	1,668	493	923	875	324	178	228
MAX	394	590	1,380	3,980	11,300	3,670	715	2,200	2,150	660	274	545
MIN	138	225	291	260	250	736	357	329	430	232	130	125
CFSM	.20	.29	.52	.80	4.04	1.57	.47	.87	.83	.31	.17	.22
IN.	.23	.32	.60	.92	4.21	1.81	.52	1.00	.92	.35	.19	.24

CAL YR 1970 TOTAL 295,540 MEAN 810 MAX 7,870 MIN 138 CFSM .76 IN 10.37
WTR YR 1971 TOTAL 322,841 MEAN 884 MAX 11,300 MIN 125 CFSM .83 IN 11.33

PEAK DISCHARGE (BASE, 7,000 CFS).--Feb. 6 (2000) 9,660 cfs (12.58 ft); Feb. 23 (1500) 11,900 cfs (13.55 ft).

03363500 Flatrock River at St. Paul, Ind.

LOCATION.--Lat 39°25'03", long 85°38'03", in SE¼NE¼ sec.9, T.11 N., R.8 E., Shelby County, on right bank 500 ft downstream from highway bridge, 0.8 mile southwest of St. Paul, and 1.5 miles downstream from Mill Creek.

DRAINAGE AREA.--303 sq mi.

PERIOD OF RECORD.--October 1930 to current year. Prior to October 1958, published as Flatrock Creek at St. Paul.

GAGE.--Water-stage recorder. Datum of gage is 764.84 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 21, 1938, nonrecording gage at site 500 ft upstream at same datum.

AVERAGE DISCHARGE.--41 years, 310 cfs (13.89 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,620 cfs Feb. 22 (gage height, 5.87 ft); minimum daily, 13 cfs Sept. 1.
Period of record: Maximum discharge, 18,500 cfs Jan. 5, 1949; maximum recorded gage height, 12.37 ft May 24, 1968; minimum daily discharge, 0.6 cfs Aug. 7, 1931.
Flood in March 1913 reached a stage of approximately 20.5 ft, from information by local residents.

REMARKS.--Records good except those for February, which are fair. Slight diversion occasionally by quarry above gage.

REVISIONS (WATER YEARS).--WSP 853: 1934-36. WSP 973: 1942. WSP 1335: 1933, 1936. WSP 1725: 1957(M). WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	74	94	120	65	667	150	77	122	178	45	13
2	24	69	94	110	60	502	184	78	156	126	39	14
3	21	71	89	100	60	424	188	79	261	102	36	16
4	19	74	92	800	1,200	335	164	81	217	92	37	18
5	18	69	97	1,090	2,630	285	143	82	169	85	37	16
6	17	67	94	737	2,170	285	136	396	145	81	33	16
7	17	63	87	490	842	460	132	763	150	75	30	17
8	16	61	81	390	310	478	122	1,250	278	68	28	42
9	17	58	81	300	230	356	114	981	518	63	25	39
10	19	63	79	250	190	351	105	580	288	106	24	26
11	20	67	76	200	160	454	100	407	204	460	30	64
12	30	67	81	160	590	508	97	343	187	200	33	31
13	100	67	84	150	821	555	97	384	307	117	32	56
14	200	69	97	305	418	590	100	315	312	92	24	49
15	205	81	94	325	270	639	97	250	228	76	21	34
16	157	97	103	209	170	751	92	215	173	69	20	28
17	111	100	241	180	1,870	569	89	195	135	65	18	23
18	89	92	330	160	1,930	424	87	178	115	76	17	19
19	76	87	260	140	1,910	418	81	163	400	67	17	18
20	74	184	200	120	2,170	466	76	161	807	58	16	57
21	74	295	184	110	1,910	436	76	175	699	50	15	80
22	79	223	466	100	3,770	378	76	144	473	44	16	73
23	76	164	632	95	3,510	325	74	129	283	40	20	49
24	71	132	472	90	1,690	280	71	130	200	52	25	36
25	67	160	345	85	674	250	71	254	159	50	19	34
26	63	103	250	80	737	232	67	407	134	48	17	47
27	58	97	210	80	1,290	214	65	269	118	40	28	49
28	54	92	180	75	1,120	205	76	200	355	45	21	53
29	58	87	160	70	-----	196	87	166	723	89	17	42
30	67	87	140	65	-----	176	80	144	273	79	15	34
31	76	-----	130	65	-----	160	-----	128	-----	56	14	-----
TOTAL	1,998	3,020	5,628	7,251	32,767	12,369	3,097	9,124	8,589	2,849	769	1,093
MEAN	64.5	101	182	234	1,170	399	103	294	286	91.9	24.8	36.4
MAX	205	295	632	1,090	3,770	751	188	1,250	807	460	45	80
MIN	16	58	76	65	60	160	65	77	115	40	14	13
CFSM	.21	.33	.60	.77	3.86	1.32	.34	.97	.94	.30	.08	.12
IN.	.25	.37	.69	.89	4.02	1.52	.38	1.12	1.05	.35	.09	.13

CAL YR 1970 TOTAL 84,455 MEAN 231 MAX 3,310 MIN 13 CFSM .76 IN 10.37
WTR YR 1971 TOTAL 88,554 MEAN 243 MAX 3,770 MIN 13 CFSM .80 IN 10.87

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0800	4.74	3,130	02-22	1030	5.87	4,620
02-17	1900	5.07	3,530				

WABASH RIVER BASIN

03363900 Flatrock River at Columbus, Ind.

LOCATION.--Lat 39°14'06", long 85°55'36", in NE¼SW¼ sec.12, T.9 N., R.5 E., Bartholomew County, on left bank at downstream side of U.S. Highway 31 (bypass) bridge, 0.2 mile northwest of Columbus city limits, and 2.6 miles upstream from mouth.

DRAINAGE AREA.--534 sq mi.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 610.14 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 8,530 cfs Feb. 23 (gage height, 12.15 ft); minimum daily, 39 cfs Sept. 1, 2.
Period of record: Maximum discharge, 20,000 cfs May 25, 1968 (gage height, 15.87 ft, from inside high-water mark); minimum daily, 22 cfs Oct. 5, 1967.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	64	118	162	200	120	1,330	332	160	245	341	125	39
2	60	121	169	200	110	1,030	341	154	253	265	107	39
3	57	118	166	200	110	875	350	149	275	218	98	45
4	55	118	161	640	250	755	338	148	326	191	96	46
5	54	119	160	2,150	4,280	645	341	145	283	173	95	44
6	52	117	164	1,590	3,930	596	347	201	253	163	91	50
7	51	113	158	854	2,090	705	344	625	233	154	86	56
8	50	109	146	621	715	825	326	1,180	240	145	80	51
9	52	107	141	520	420	705	308	1,350	371	137	76	73
10	53	106	136	440	360	625	290	905	412	133	72	79
11	50	107	134	400	320	760	273	645	308	290	71	67
12	56	111	135	360	388	825	260	536	273	616	70	115
13	62	113	138	320	1,440	820	253	500	270	317	73	98
14	143	116	145	300	755	815	255	496	347	233	73	91
15	290	121	155	555	488	820	253	420	359	191	66	91
16	309	135	161	500	340	1,030	243	365	293	167	62	75
17	242	161	226	340	775	905	235	338	250	151	55	70
18	186	160	455	290	4,400	720	228	311	218	151	54	60
19	152	152	454	250	2,680	660	218	288	199	172	52	54
20	138	176	380	220	4,000	700	209	285	596	148	47	61
21	129	427	329	200	3,110	700	205	280	670	133	45	87
22	124	452	436	190	4,180	645	203	270	665	121	46	125
23	126	362	958	170	7,360	592	199	248	490	112	45	125
24	125	289	872	160	4,560	540	189	240	350	110	44	99
25	119	230	628	150	1,770	488	183	362	290	110	45	87
26	113	222	471	150	1,280	460	177	520	253	109	53	91
27	107	205	400	140	1,850	428	170	472	225	103	46	95
28	102	193	350	140	1,900	404	165	362	205	105	45	94
29	104	181	300	130	-----	384	168	314	576	107	50	98
30	103	167	250	130	-----	368	170	283	532	155	47	89
31	107	-----	230	120	-----	347	-----	260	-----	154	43	-----
TOTAL	3,435	5,226	9,170	12,670	54,021	21,502	7,573	12,812	10,250	5,675	2,058	2,294
MEAN	111	174	296	409	1,929	694	252	413	342	183	66.4	76.5
MAX	309	452	958	2,150	7,360	1,330	350	1,350	670	616	125	125
MIN	50	106	134	120	110	347	165	145	199	103	43	39
CFSM	.21	.33	.55	.77	3.61	1.30	.47	.77	.64	.34	.12	.14
IN.	.24	.36	.64	.88	3.76	1.50	.53	.89	.71	.40	.14	.16

CAL YR 1970 TOTAL 150,473 MEAN 412 MAX 5,120 MIN 50 CFSM .77 IN 10.48
WTR YR 1971 TOTAL 146,686 MEAN 402 MAX 7,360 MIN 39 CFSM .75 IN 10.22

PEAK DISCHARGE (BASE, 3,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	2300	10.44	5,220	02-20	1800	10.10	4,740
02-18	1400	10.56	5,400	02-23	0700	12.15	8,530

03364000 East Fork White River at Columbus, Ind.

LOCATION.--Lat 39°12'00", long 85°55'32", in NE 1/4 sec. 25, T.9 N., R.5 E., Bartholomew County, on left bank at abutment of abandoned bridge at west end of Second Street in Columbus, 0.6 mile downstream from confluence of Driftwood River and Flatrock River, and 1.3 miles upstream from Haw Creek.

DRAINAGE AREA.--1,707 sq mi.

PERIOD OF RECORD.--October 1947 to current year. Prior to January 1948 monthly discharge only, published in WSP 1305.

GAGE.--Water-stage recorder above concrete control. Datum of gage is 603.12 ft above mean sea level. Prior to Oct. 22, 1952, non-recording gage 600 ft upstream at same datum.

AVERAGE DISCHARGE.--24 years, 1,782 cfs (14.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 18,400 cfs Feb. 23 (gage height, 8.79 ft); minimum daily, 194 cfs Sept. 1, 2.
Period of record: Maximum discharge, 52,300 cfs Mar. 6, 1963 (gage height, 16.23 ft); minimum daily, 87 cfs Sept. 29, 1954.

REMARKS.--Records good except those for January and February, which are fair.

REVISIONS (WATER YEARS).--WSP 1335: 1948-49. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	250	387	478	660	430	4,370	1,150	616	960	1,050	435	194
2	243	391	478	620	420	3,530	1,230	588	1,000	800	391	194
3	232	388	477	600	410	3,050	1,230	560	1,100	664	363	230
4	222	395	459	2,560	909	2,660	1,150	546	1,230	574	363	230
5	220	402	471	4,920	7,940	2,270	1,080	546	1,050	546	355	256
6	240	394	526	4,600	10,900	2,090	1,050	800	940	518	338	282
7	224	381	519	3,900	8,200	2,630	1,030	1,700	860	490	321	295
8	219	372	490	2,900	5,000	3,020	980	2,750	1,030	468	304	560
9	235	367	466	2,300	3,600	2,660	960	3,140	1,500	446	295	504
10	256	379	451	1,800	2,300	2,390	900	2,570	1,650	446	289	413
11	249	375	446	1,400	1,500	2,660	860	2,000	1,300	664	295	346
12	278	380	455	1,050	1,500	2,810	840	1,730	1,130	1,480	289	372
13	321	381	468	972	3,000	2,750	820	1,850	1,350	880	295	479
14	461	394	543	1,080	3,000	2,690	840	1,830	1,800	630	282	446
15	610	434	579	1,410	2,500	2,720	840	1,550	2,090	546	269	380
16	662	444	640	1,240	2,000	3,020	800	1,350	1,730	490	256	338
17	557	466	796	995	2,000	2,900	783	1,230	1,250	468	250	304
18	470	455	1,190	894	8,660	2,420	783	1,100	1,030	468	243	282
19	421	440	1,180	728	9,250	2,270	749	1,000	880	574	237	263
20	431	681	1,030	695	11,800	2,360	732	960	1,480	518	230	312
21	429	888	923	670	12,600	2,390	732	960	2,060	468	224	338
22	415	975	1,250	610	15,100	2,180	749	900	2,030	402	218	424
23	411	813	2,010	580	17,800	1,950	715	820	1,650	380	212	435
24	398	686	1,980	550	16,300	1,780	681	800	1,300	380	212	363
25	384	586	1,570	520	7,600	1,630	664	1,480	1,100	372	212	346
26	373	554	1,220	500	4,190	1,530	647	2,300	920	457	224	363
27	358	533	1,110	480	5,640	1,450	630	1,950	800	402	224	321
28	348	514	940	470	6,550	1,380	630	1,580	715	402	230	457
29	368	495	820	460	-----	1,330	647	1,300	1,150	424	224	435
30	368	479	750	450	-----	1,280	647	1,150	1,500	546	212	402
31	375	-----	690	440	-----	1,200	-----	1,000	-----	532	200	-----
TOTAL	11,028	14,829	25,405	41,054	171,099	73,370	25,549	42,656	38,585	17,485	8,492	10,564
MEAN	356	494	820	1,324	6,111	2,367	852	1,376	1,286	564	274	352
MAX	662	975	2,010	4,920	17,800	4,370	1,230	3,140	2,090	1,480	435	560
MIN	219	367	446	440	410	1,200	630	546	715	372	200	194
CFSM	.21	.29	.48	.78	3.58	1.39	.50	.81	.75	.33	.16	.21
IN.	.24	.32	.55	.89	3.73	1.60	.56	.93	.84	.38	.19	.23

CAL YR 1970 TOTAL 459,543 MEAN 1,259 MAX 10,300 MIN 219 CFSM .74 IN 10.01
WTR YR 1971 TOTAL 480,116 MEAN 1,315 MAX 17,800 MIN 194 CFSM .77 IN 10.46

PEAK DISCHARGE (BASE, 10,000 CFS).--Feb. 6 (0500) 11,000 cfs (5.86 ft); Feb. 23 (1400) 18,400 cfs (8.79 ft).

WABASH RIVER BASIN

03364200 Haw Creek near Clifford, Ind.

LOCATION.--Lat 39°16'04", long 85°51'22", in NW¼SW¼ sec.34, T.10 N., R.6 E., Bartholomew County, on left bank 20 ft downstream from bridge on County Road 450 North, 1.2 miles southeast of Clifford, 5.8 miles northeast of Columbus, and 7.4 miles upstream from mouth.

DRAINAGE AREA.--47.5 sq mi.

PERIOD OF RECORD.--August 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 643.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,270 cfs Feb. 22 (gage height, 12.10 ft); minimum daily, 0.91 cfs Aug. 25, Aug. 27 to Sept. 1.

Period of record: Maximum discharge, 2,560 cfs May 24, 1968 (gage height, 13.9 ft, from floodmark); no flow at times during September and October 1967 due to diversion of streamflow to ground water resulting from irrigation pumpage.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	2.9	10	9.0	1.4	71	21	9.0	12	3.8	4.4	.91
2	1.4	2.9	9.6	8.5	1.2	60	24	7.9	14	3.2	3.8	1.3
3	1.4	3.0	8.4	11	1.1	55	25	7.9	13	2.9	3.6	1.2
4	1.4	3.4	7.4	214	353	47	20	9.0	10	4.2	4.2	1.2
5	1.4	4.4	7.0	121	257	43	18	10	9.0	4.0	4.2	1.0
6	1.4	4.7	6.2	40	52	41	20	34	7.9	3.2	3.8	1.2
7	1.4	4.2	5.8	30	30	56	22	35	7.0	2.7	3.2	1.2
8	1.5	4.0	5.8	25	20	50	21	73	7.4	2.6	3.0	1.1
9	2.0	3.8	5.6	20	18	41	19	47	7.0	2.1	2.9	1.0
10	2.1	5.2	5.8	17	16	49	17	34	6.6	1.9	2.9	1.0
11	2.0	6.6	5.8	15	14	66	13	28	6.6	2.4	3.0	10
12	2.7	6.2	7.4	14	286	56	14	27	9.0	2.2	2.6	9.0
13	13	5.5	8.4	13	95	50	14	24	12	2.6	2.6	2.7
14	14	5.5	6.2	47	63	47	16	20	12	2.0	2.7	1.9
15	17	15	5.5	34	30	76	13	16	30	1.7	2.6	1.7
16	7.9	15	9.0	21	20	65	13	13	20	2.5	2.4	1.5
17	4.9	11	25	15	601	48	13	13	14	3.0	1.9	1.4
18	4.0	9.0	23	10	161	43	12	13	12	11	2.6	1.2
19	3.0	7.9	21	7.0	299	45	10	12	31	25	2.6	1.2
20	3.4	68	16	5.5	207	48	11	11	34	2.7	1.8	2.6
21	3.6	58	20	4.5	235	50	11	9.0	8.4	2.3	1.5	7.9
22	3.4	40	75	4.0	894	46	11	7.9	8.4	2.1	1.9	4.4
23	3.6	29	72	4.0	192	34	9.6	7.4	6.6	2.0	1.2	3.0
24	3.2	28	50	3.5	123	32	10	9.6	5.8	2.4	.97	2.0
25	2.7	17	41	4.5	100	29	9.0	79	4.9	2.3	.91	2.0
26	2.4	17	30	4.9	128	28	9.0	41	5.8	2.3	.97	16
27	2.4	14	22	3.5	129	26	9.6	27	6.2	2.0	.91	8.4
28	2.3	12	18	3.0	85	25	9.6	23	5.8	14	.91	4.7
29	2.9	10	14	2.5	-----	23	9.6	17	7.0	29	.91	3.2
30	3.6	9.6	12	2.0	-----	21	9.6	13	4.7	7.0	.91	2.7
31	3.0	-----	10	1.6	-----	20	-----	13	-----	5.2	.91	-----
TOTAL	120.5	422.8	563.1	715.0	4,411.7	1,391	434.0	690.7	338.1	156.3	72.80	98.61
MEAN	3.89	14.1	18.2	23.1	158	44.9	14.5	22.3	11.3	5.04	2.35	3.29
MAX	17	68	75	214	894	76	25	79	34	29	4.4	16
MIN	1.4	2.9	5.5	1.6	1.1	20	9.0	7.4	4.7	1.7	.91	.91
CFSM	.08	.30	.38	.49	3.33	.95	.31	.47	.24	.11	.05	.07
IN.	.09	.33	.44	.56	3.46	1.09	.34	.54	.26	.12	.06	.08

CAL YR 1970 TOTAL 13,206.99 MEAN 36.2 MAX 1,740 MIN .96 CFSM .76 IN 10.34
 WTR YR 1971 TOTAL 9,414.61 MEAN 25.8 MAX 474 MIN .91 CFSM .54 IN 7.37

PEAK DISCHARGE (BASE, 600 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-04	1030	7.98	816	02-19	1830	7.74	774
02-12	1500	7.21	671	02-22	0300	12.10	1,270
02-17	1300	9.96	1,230				

03364500 Clifty Creek at Hartsville, Ind.

LOCATION.--Lat 39°16'25", long 85°42'10", in NW 1/4 sec. 36, T.10 N., R.7 E., Bartholomew County, at downstream side of left abutment of highway bridge, 0.2 mile north of Hartsville, and 5 miles upstream from Duck Creek.

DRAINAGE AREA.--91.4 sq mi.

PERIOD OF RECORD.--February 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 677.34 ft above mean sea level. Prior to Sept. 24, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 95.2 cfs (14.15 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,510 cfs Feb. 22 (gage height, 7.19 ft); minimum daily, 0.06 cfs Oct. 7, 8. Period of record: Maximum discharge, 11,300 cfs Jan. 21, 1959 (gage height, 14.29 ft); no flow at times most years. Flood in 1913 reached a stage of 25.1 ft, from floodmarks.

REMARKS.--Records good. Records of chemical analyses and water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1335: 1950. WSP 1725: 1949(M). WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	4.1	5.6	13	7.5	135	35	11	11	37	7.4	.16
2	.16	5.1	5.1	12	7.0	113	57	11	16	28	4.6	.35
3	.10	5.1	5.1	15	6.5	97	57	11	20	17	9.8	3.6
4	.10	5.1	5.1	324	582	76	45	11	16	12	18	1.0
5	.10	3.2	4.6	188	724	65	37	11	9.0	8.2	33	14
6	.08	5.1	4.5	82	122	68	38	71	8.2	7.4	21	9.8
7	.06	4.1	4.5	60	64	109	39	115	6.8	5.6	12	5.6
8	.06	3.6	5.0	50	40	102	34	234	6.2	5.1	6.2	4.1
9	.10	4.1	5.1	40	30	77	31	135	6.8	4.6	4.6	2.8
10	.16	6.2	5.1	35	26	87	27	84	6.8	4.6	2.8	2.0
11	.10	5.1	5.6	30	24	143	24	62	3.6	90	3.2	1.5
12	1.2	2.0	6.8	30	247	147	23	53	4.1	128	2.8	33
13	2.8	3.2	6.2	34	306	126	24	45	6.2	46	2.4	23
14	6.2	3.2	6.2	80	79	104	25	38	35	26	2.0	9.8
15	19	1.2	6.8	70	50	179	23	31	69	17	1.7	5.6
16	24	6.2	9.8	39	35	191	21	28	31	12	1.7	4.1
17	17	5.6	16	30	925	121	21	27	16	8.2	1.2	2.8
18	11	6.8	35	25	658	93	21	24	9.0	6.2	.82	2.0
19	8.2	6.2	28	23	350	101	18	25	174	9.8	.67	1.7
20	9.0	41	23	21	671	123	16	25	350	6.2	.67	9.0
21	9.0	73	22	19	199	121	17	23	106	5.1	.45	55
22	6.8	38	64	18	1,970	101	17	18	71	4.1	.82	37
23	5.1	22	104	17	513	82	16	16	47	3.2	1.0	19
24	5.1	13	60	16	205	65	16	17	32	4.1	.82	12
25	6.2	11	41	17	151	57	15	26	25	4.6	.55	9.0
26	5.1	9.0	28	19	174	52	14	32	19	12	.55	27
27	5.6	8.2	22	13	298	47	13	21	17	6.2	1.5	42
28	5.1	8.2	19	12	187	45	13	16	15	32	1.5	32
29	6.8	7.4	17	10	-----	42	13	14	156	19	1.0	21
30	6.2	6.2	16	5.0	-----	37	13	13	59	21	.55	15
31	5.1	-----	14	8.5	-----	32	-----	11	-----	13	.27	-----
TOTAL	165.87	322.2	600.1	1,359.5	8,651.0	2,938	763	1,259	1,351.7	603.2	145.57	404.91
MEAN	5.35	10.7	19.4	43.9	309	94.8	25.4	40.6	45.1	19.5	4.70	13.5
MAX	24	73	104	324	1,970	191	57	234	350	128	33	55
MIN	.06	1.2	4.5	8.5	6.5	32	13	11	3.6	3.2	.27	.16
CFSM	.06	.12	.21	.48	3.38	1.04	.28	.44	.49	.21	.05	.15
IN.	.07	.13	.24	.55	3.52	1.20	.31	.51	.55	.25	.06	.16

CAL YR 1970 TOTAL 25,908.61 MEAN 71.0 MAX 3,670 MIN .06 CFSM .78 IN 10.54
 WTR YR 1971 TOTAL 18,564.05 MEAN 50.9 MAX 1,970 MIN .06 CFSM .56 IN 7.56

PEAK DISCHARGE (BASE 1,300 CFS).--Feb. 17 (2215) 2,000 cfs (6.31 ft). Feb. 22 (1715) 2,510 cfs (7.19 ft).

WABASH RIVER BASIN

03365000 Sand Creek near Brewersville, Ind.

LOCATION.--Lat 39°05'03", long 85°39'32", in MW 1/4 NE 1/4 (revised) sec.5, T.7 N., R.8 E., Jennings County, on left bank at downstream side of county highway bridge, 2.5 miles west of Brewersville, 5.7 miles upstream from Wyalosung Creek, and 16 miles upstream from mouth.

DRAINAGE AREA.--155 sq mi.

PERIOD OF RECORD.--February 1948 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 630 ft (by barometer). Prior to Oct. 6, 1952, nonrecording gage at site 1.7 miles upstream at datum approximately 8 ft higher.

AVERAGE DISCHARGE.--23 years, 163 cfs (14.28 inches per year).

EXTREMES.--Current year: Maximum discharge, about 4,200 cfs Feb.22 (gage height, unknown); minimum daily, 0.35 cfs Oct. 6.
Period of record: Maximum discharge, 19,900 cfs Jan 21, 1959 (gage height, 21.70 ft inside, 22.20 ft outside), from rating curve extended above 6,500 cfs on basis of contracted-opening measurement of peak flow; no flow at times most years.

REMARKS.--Records good except those for winter periods, which are fair. Records for suspended-sediment loads for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1335: 1949. WRD Ind. 1968: Drainage area. WRD Ind. 1969: 1968.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	7.0	12	21	12	209	51	25	22	56	31	3.8
2	1.5	10	20	12	11	169	233	23	22	67	21	3.1
3	4.22	4.2	20	22	10	151	243	22	29	47	16	315
4	5.2	7.4	19	401	255	124	165	21	30	20	20	533
5	4.4	7.0	16	323	1,120	97	122	20	22	20	20	103
6	4.5	8.4	15	126	315	137	97	20	10	15	15	47
7	4.44	7.6	14	85	173	348	42	45	16	13	15	28
8	4.4	5.5	13	65	141	201	73	220	16	12	12	20
9	4.5	6.2	12	54	120	145	64	203	30	12	2.2	18
10	1.2	5.5	11	50	110	145	55	121	14	11	7.4	15
11	1.1	6.2	12	47	100	305	44	85	14	11	7.0	25
12	1.2	5.5	13	45	620	245	43	73	13	11	6.2	71
13	2.4	7.4	12	51	403	225	41	65	12	30	5.2	69
14	22	9.2	14	235	235	177	42	56	22	37	4.0	33
15	21	11	16	150	200	345	46	47	510	20	4.5	20
16	24	9.5	20	52	150	373	43	40	160	20	4.3	15
17	17	10	20	65	1,240	233	40	34	60	15	4.0	11
18	4.3	14	24	64	271	145	34	31	40	14	4.0	9.6
19	4.4	14	54	45	432	155	36	34	152	64	3.8	8.3
20	4.3	20	41	40	1,210	300	34	470	424	26	3.5	205
21	4.0	171	34	35	539	243	34	94	201	12	3.5	308
22	3.5	66	141	30	4,000	207	41	61	134	9.6	3.5	103
23	5.4	44	263	30	474	163	33	46	52	7.4	3.3	56
24	7.4	30	150	30	300	120	36	30	64	13	3.3	34
25	5.4	22	45	31	265	105	34	110	34	17	40	25
26	4.4	20	57	30	320	72	32	55	30	44	131	400
27	4.4	10	40	25	447	92	30	50	24	22	31	250
28	4.4	14	35	20	354	74	20	44	20	10	13	115
29	4.5	10	30	14	-----	70	24	35	122	244	4.4	71
30	4.4	17	25	14	-----	63	25	30	145	131	6.6	49
31	4.4	-----	23	13	-----	56	-----	25	-----	57	5.2	-----
TOTAL	17,432	665.0	1,357	2,375	14,491	5,753	1,924	2,342	2,517	1,170.0	463.1	2,963.8
MEAN	5.6	21.2	43.8	76.6	467	186	64.1	75.6	83.9	36.1	14.9	98.8
MAX	22	171	263	451	3,000	435	243	472	514	238	131	533
MIN	1.1	5.5	11	13	10	50	20	20	12	7.4	3.1	3.1
CFSM	2.2	7.4	25	49	343	1,20	41	47	54	23	10	64
IN	0.08	0.29	0.33	0.57	0.57	1.48	0.46	0.55	0.60	0.27	0.11	0.71

WATER YEAR 1970 TOTAL 4,446.27 MEAN 133 MAX 4,000 MIN 0.35 CFSM 4.46 IN 11.64
WATER YEAR 1971 TOTAL 26,552.00 MEAN 100 MAX 3,000 MIN 0.35 CFSM 4.65 IN 2.77

PEAK DISCHARGE (BASE, 2,900 CFS).--Feb. 17 (1900) 3,380 cfs (9.68 ft). Feb. 22 (unknown) 4,200 cfs (unknown).

a about

03365500 East Fork White River at Seymour, Ind.

LOCATION.--Lat 38°58'57", long 85°53'57", in NW¼NE¼ (revised) sec. 7, T. 6 N., R. 6 E., Jackson County, on left bank 1,700 ft downstream from highway bridge, 1 mile north of Seymour, 9.6 miles downstream from Sand Creek, and at mile 219.2.

DRAINAGE AREA.--2,341 sq mi.

PERIOD OF RECORD.--October 1927 to current year. Yearly maximum discharge only for water years 1924-27, published in WSP 1305. Daily gage heights from May 1923 to September 1927 are available in the district office.

GAGE.--Water-stage recorder. Datum of gage is 550.67 ft above mean sea level. Oct. 1, 1927, to July 2, 1931, nonrecording gage 1,700 ft upstream at datum 7.61 ft higher. July 3, 1931, to July 16, 1934, nonrecording gage at site 100 ft downstream at present datum.

AVERAGE DISCHARGE.--44 years, 2,356 cfs (13.67 inches per year).

EXTREMES.--Current year: Maximum discharge, 27,900 cfs Feb. 23 (gage height, 17.17 ft); minimum daily, 275 cfs Aug. 31. Period of record: Maximum discharge, 78,500 cfs Jan. 5, 1949 (gage height, 19.67 ft); minimum daily, 86 cfs Sept. 28, 30, 1941.

Flood of Mar. 26, 1913 reached a stage of 21.0 ft, from information by Corps of Engineers and State Highway Department of Indiana (discharge, 120,000 cfs).

REMARKS.--Records good. Some regulation of low flow by Seymour Water Co. at dam 500 ft upstream from station. Records of water temperatures and suspended-sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 743: 1928-29, 1931-32. WSP 783: 1934. WSP 873: 1938. WSP 1335: 1928(M), 1929-30, 1932-33(M), 1937(M), 1942. WSP 1435: 1949. WSP 1705: 1958. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	321	413	614	860	600	8,810	1,550	790	1,130	1,380	686	288
2	316	423	606	820	600	6,370	1,710	758	1,120	1,120	578	287
3	306	430	610	800	600	4,970	1,880	722	1,140	978	539	281
4	296	434	602	1,950	660	4,140	1,680	702	1,250	966	610	742
5	290	441	578	5,150	5,340	3,480	1,540	694	1,230	792	594	490
6	287	444	598	5,570	10,100	3,090	1,470	742	1,120	748	546	409
7	293	430	622	3,860	12,000	3,580	1,460	1,220	1,040	713	507	406
8	293	420	618	2,590	9,550	4,190	1,420	2,690	1,040	686	472	406
9	296	416	598	2,000	3,540	3,980	1,360	3,920	1,180	662	444	578
10	308	427	570	1,700	2,150	3,390	1,300	3,620	1,620	646	437	518
11	302	427	563	1,500	1,780	3,760	1,250	2,720	1,460	650	420	462
12	323	423	570	1,400	1,800	4,140	1,210	2,160	1,260	1,110	413	413
13	372	423	567	1,310	5,110	4,050	1,180	1,960	1,180	1,270	399	479
14	395	427	590	1,480	4,600	3,800	1,170	2,110	1,670	975	395	556
15	602	469	654	1,920	3,220	4,000	1,170	1,890	2,230	831	382	504
16	682	518	742	1,740	2,340	4,910	1,160	1,610	2,830	746	365	444
17	738	546	909	1,460	3,580	4,520	1,120	1,440	1,730	686	356	399
18	638	574	1,110	1,280	9,590	3,750	1,090	1,330	1,360	704	347	359
19	574	606	1,340	1,120	11,200	3,230	1,070	1,260	1,170	850	335	335
20	553	742	1,250	1,080	12,400	3,400	1,040	1,550	1,570	798	326	369
21	560	1,100	1,140	1,000	14,100	3,440	1,030	1,350	2,320	717	320	574
22	525	1,220	1,290	940	17,600	3,300	1,040	1,210	2,330	648	314	549
23	511	1,130	2,090	890	24,900	2,930	1,020	1,100	2,110	607	293	567
24	486	968	2,560	840	19,200	2,570	986	1,040	1,610	596	293	511
25	448	842	2,130	800	14,800	2,290	945	1,190	1,340	713	293	444
26	434	770	1,670	760	8,940	2,110	905	2,060	1,180	626	338	497
27	420	738	1,360	730	7,940	1,980	869	2,380	1,070	638	375	869
28	406	670	1,150	700	9,520	1,880	851	1,890	980	609	326	666
29	409	646	1,050	680	-----	1,800	828	1,530	941	655	296	622
30	416	626	980	660	-----	1,710	819	1,340	1,570	804	284	567
31	409	-----	920	630	-----	1,600	-----	1,220	-----	790	275	-----
TOTAL	13,209	18,143	30,651	48,220	217,760	111,170	36,123	50,188	43,781	24,614	12,559	14,591
MEAN	426	605	989	1,555	7,777	3,586	1,204	1,619	1,459	794	405	486
MAX	738	1,220	2,560	5,570	24,900	8,810	1,880	3,920	2,830	1,380	686	869
MIN	287	413	563	630	600	1,600	819	694	941	596	275	281
CFSM	.18	.26	.42	.66	3.32	1.53	.51	.69	.62	.34	.17	.21
IN.	.21	.29	.49	.77	3.46	1.77	.57	.80	.70	.39	.20	.23

CAL YR 1970 TOTAL 685,830 MEAN 1,879 MAX 22,600 MIN 287 CFSM .90 IN 10.90
WTR YR 1971 TOTAL 621,008 MEAN 1,701 MAX 24,900 MIN 275 CFSM .73 IN 9.87

PEAK DISCHARGE (BASE, 12,000 CFS).--Feb. 7 (1800) 12,100 cfs (13.38 ft). Feb. 23 (0500) 27,900 cfs (17.17 ft).

03366000 Graham Creek near Vernon, Ind.

LOCATION.--Lat 38°55'47", long 85°33'45", in NW 1/4 sec. 30, T.6 N., R.9 E., Jennings County, on right bank 10 ft upstream from State Highway 7, 4.7 miles southeast of Vernon, and 8.0 miles downstream from Little Graham Creek.

DRAINAGE AREA.--77.2 sq mi.

PERIOD OF RECORD.--June 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 677.47 ft above mean sea level (unadjusted). Prior to June 10, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--16 years, 88.6 cfs (15.58 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,900 cfs Feb. 22 (gage height, 12.71 ft); no flow July 27, Aug. 2.
Period of record: Maximum discharge, 18,600 cfs June 23, 1960 (gage height, 21.37 ft) from rating curve extended above 6,000 cfs on basis of contracted-opening measurements of peak flow; no flow at times most years.

REMARKS.--Records fair.

REVISIONS.--WRD Ind, 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.54	2.3	11	14	6.5	74	26	9.1	2.9	11	.04	2.3
2	.44	2.9	9.5	13	6.0	59	221	8.2	2.3	2.9	0	1.5
3	.65	3.2	10	13	5.5	53	112	7.4	1.7	1.3	86	11
4	.54	3.2	11	540	137	48	62	7.6	1.5	.65	1,250	125
5	.44	3.2	10	293	1,310	47	45	7.2	1.3	.25	475	58
6	.34	3.5	9.0	76	188	92	39	8.6	.87	.12	141	68
7	.20	3.5	7.5	40	93	535	34	28	.55	.07	71	343
8	.15	3.2	7.0	30	62	147	33	216	.44	.04	34	83
9	.25	2.9	6.5	25	40	86	29	93	.25	.03	18	34
10	.25	3.5	6.5	20	35	101	25	43	.15	.02	10	17
11	.15	3.2	6.0	19	30	352	22	37	.12	.05	8.0	14
12	.34	5.1	8.5	18	397	150	20	51	.99	.03	5.5	29
13	.76	5.5	.33	25	747	99	20	38	.34	.02	4.3	39
14	21	5.5	32	657	219	75	23	27	8.5	.01	2.9	14
15	41	14	23	265	121	265	24	21	107	.01	2.3	7.5
16	17	18	42	62	70	207	22	17	85	.01	1.5	6.0
17	13	14	307	60	895	89	20	13	16	.01	1.1	6.5
18	8.5	12	108	35	950	63	18	11	5.1	.76	.87	5.1
19	5.1	9.5	62	25	359	114	16	9.0	18	433	.76	2.9
20	4.7	240	41	20	538	173	15	7.5	384	73	.54	292
21	4.3	190	34	18	293	103	15	7.5	71	9.5	.44	265
22	7.5	62	568	16	3,690	76	22	5.0	25	.34	3.9	76
23	9.5	37	757	15	645	58	22	4.7	10	.01	167	35
24	7.0	24	302	14	192	47	17	6.0	5.1	.03	40	20
25	4.7	18	94	15	115	40	13	39	2.9	.05	12	11
26	4.3	14	55	15	106	36	11	43	1.5	.05	92	10
27	4.7	13	35	12	277	33	10	20	.90	0	92	62
28	3.5	12	25	10	119	30	9.9	10	.65	.34	30	123
29	3.5	11	20	9.0	-----	28	9.4	7.5	16	1.4	11	49
30	2.6	11	18	9.0	-----	26	8.8	5.1	55	.65	6.0	24
31	2.6	-----	16	7.0	-----	23	-----	3.5	-----	1.1	3.5	-----
TOTAL	169.55	750.2	2,756.5	2,419.0	12,045.0	3,329	969.1	801.3	826.25	611.99	2,576.65	1,833.8
MEAN	5.47	25.0	88.9	78.0	430	107	32.3	25.8	27.5	19.7	82.9	61.1
MAX	41	240	700	657	3,690	535	221	216	384	433	1,250	343
MIN	.15	2.3	6.0	7.0	5.5	23	9.8	3.5	.12	0	0	1.5
CFS/M	.07	.32	1.15	1.01	5.57	1.39	.42	.33	.36	.26	1.07	.79
IN.	.04	.36	1.33	1.17	5.90	1.60	.47	.39	.40	.29	1.24	.88

CAL YR 1970 TOTAL 28,353.99 MEAN 79.1 MAX 2,870 MIN .05 CFS/M 1.02 IN 13.90
WTR YR 1971 TOTAL 29,041.34 MEAN 79.7 MAX 3,690 MIN 0 CFS/M 1.03 IN 14.01

PEAK DISCHARGE (BASE, 2,300 CFS).--Feb. 17 (2130) 2,750 cfs (8.11 ft). Feb. 22 (1200) 5,900 cfs (12.71 ft).

03366200 Harberts Creek near Madison, Ind.

LOCATION.--Lat 38°46'55", long 85°29'08", in SW¼SE¼ sec.14, T.4 N., R.9 E., Jefferson County, attached to left downstream wingwall of bridge on County Road 533 West, 0.2 mile west of Smyrna, 3.7 miles upstream from Big Creek, and 4 miles northwest of Madison.

DRAINAGE AREA.--9.31 sq mi.

PERIOD OF RECORD.--August 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 725.75 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,280 cfs Feb. 22 (gage height, 7.35 ft); no flow on July 9, 15-17.

Period of record: Maximum discharge, 1,540 cfs Apr. 2, 1970 (gage height, 7.89 ft); no flow at times each year.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.19	1.5	2.7	2.3	.95	9.9	4.0	1.0	.41	1.2	.95	.02
2	.19	2.2	2.5	2.2	.90	8.5	18	1.8	.51	.26	.65	.43
3	.13	2.7	2.7	2.1	.85	8.2	7.5	1.3	1.0	.13	.77	1.2
4	.07	2.0	5.2	105	95	7.8	4.6	1.2	.88	.06	17	.34
5	.03	1.8	3.5	20	115	9.2	3.2	1.8	.35	.04	11	.10
6	.02	1.3	2.5	10	20	35	4.0	7.2	.26	.04	3.2	.07
7	.04	1.2	1.8	6.5	13	29	4.9	27	.25	.02	1.4	.07
8	.13	.81	1.8	5.0	9.9	14	3.5	24	.26	.01	.84	.05
9	1.2	1.0	1.8	4.0	7.0	9.2	2.7	9.2	.20	0	.58	.03
10	7.8	3.2	1.6	3.5	5.5	41	2.0	4.9	.15	.01	.47	.01
11	.81	2.2	1.6	3.0	5.0	27	1.8	3.2	.10	.04	.44	17
12	.71	1.5	14	3.0	72	15	1.8	3.2	1.2	.47	.33	1.4
13	19	1.2	8.9	25	40	11	2.0	3.0	.38	.08	.28	.42
14	24	2.0	5.2	71	23	9.6	4.0	2.5	.28	.01	.23	.28
15	7.5	8.2	4.0	23	14	34	3.0	1.6	22	0	.18	.18
16	3.2	2.7	77	11	11	15	2.5	1.4	4.5	0	.17	.11
17	2.2	1.5	40	8.0	154	9.2	1.8	1.3	.82	0	.15	.10
18	1.6	1.0	16	5.0	48	7.5	1.6	1.1	.37	216	.12	.10
19	1.3	.91	11	3.5	61	33	1.5	1.0	91	102	.11	.11
20	8.5	62	7.8	3.0	60	18	1.5	.87	22	9.0	.12	8.0
21	13	15	11	2.7	32	11	2.0	.71	4.8	2.8	.11	1.5
22	4.9	8.9	111	2.5	527	8.5	2.2	.60	2.5	1.3	.59	.47
23	3.0	6.5	144	2.3	37	7.2	1.6	.55	.98	.73	.33	.32
24	1.8	4.6	24	2.1	19	5.9	1.5	1.1	.56	7.4	.17	.20
25	1.5	4.0	14	2.2	13	5.2	1.2	7.5	.43	5.8	.17	.21
26	1.0	3.5	9.0	2.5	24	4.6	1.2	1.3	.32	2.4	.80	1.0
27	1.0	3.2	6.0	2.0	31	3.7	1.2	.98	.22	1.1	.40	.40
28	1.5	2.7	4.5	1.5	14	3.7	2.2	.77	.75	8.7	.20	.42
29	2.7	2.5	3.5	1.3	-----	3.2	1.3	.59	4.4	16	.10	.24
30	2.7	3.2	3.0	1.1	-----	2.7	1.2	.54	.54	3.6	.05	.15
31	2.0	-----	2.5	1.0	-----	2.5	-----	.44	-----	1.8	.02	-----
TOTAL	113.72	155.02	544.1	337.3	1,453.10	409.3	91.5	113.65	162.42	381.00	41.93	34.93
MEAN	3.67	5.17	17.6	10.9	51.9	13.2	3.05	3.67	5.41	12.3	1.35	1.16
MAX	24	62	144	105	527	41	18	27	91	216	17	17
MIN	.02	.81	1.6	1.0	.85	2.5	1.2	.44	.10	0	.02	.01
CFSM	.39	.56	1.89	1.17	5.57	1.42	.33	.39	.58	1.32	.15	.12
IN.	.45	.62	2.17	1.35	5.81	1.64	.37	.45	.65	1.52	.17	.14

CAL YR 1970 TOTAL 3,616.35 MEAN 9.91 MAX 506 MIN 0 CFSM 1.06 IN 14.45
WTR YR 1971 TOTAL 3,837.97 MEAN 10.5 MAX 527 MIN 0 CFSM 1.13 IN 15.34

PEAK DISCHARGE (BASE, 300 CFS, revised)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
12-23	0615	5.63	506	06-19	1830	5.48	445
02-05	0215	5.05	332	07-18	1645	6.63	918
02-17	1515	5.31	403	07-19	0545	5.24	382
02-22	0615	7.35	1,280				

03366500 Muscatatuck River near Deputy, Ind.

LOCATION.--Lat 38°48'15", long 85°40'26", in SW¼NE¼ sec.7, T.4 N., R.8 E., Jefferson County, on left bank at downstream side of highway bridge, 1.4 miles northwest of Deputy, 1.9 miles upstream from Coffee Creek, and 2.4 miles downstream from confluence of Graham Creek and Big Creek.

DRAINAGE AREA.--293 sq mi.

PERIOD OF RECORD.--November 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 541.17 ft above mean sea level. Prior to June 22, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years (1948-71), 329 cfs (15.23 inches per year).

EXTREMES.--Current year: Maximum discharge, 16,400 cfs Feb. 22 (gage height, 23.35 ft); minimum daily, 2.8 cfs Oct. 7, 8.
Period of record: Maximum discharge, 52,200 cfs Jan. 21, 1959 (gage height, 33.1 ft, from floodmarks), from rating curve extended above 25,000 cfs on basis of contracted-opening measurement of peak flow; no flow at times most years.

REMARKS.--Records good except those for December, January, and February, which are poor. Records of suspended sediment loads for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1335: 1948. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.8	14	41	80	45	328	93	40	26	54	96	14
2	6.0	14	38	70	43	266	306	40	24	45	71	12
3	5.2	15	35	65	41	236	405	40	23	27	53	11
4	4.5	14	35	1,000	650	217	232	37	22	17	732	33
5	3.6	15	33	1,290	4,100	204	168	34	21	14	1,330	118
6	3.3	15	31	470	1,270	257	146	68	19	12	365	63
7	2.8	14	30	294	464	1,130	148	242	22	11	194	164
8	2.8	14	28	211	350	606	138	890	25	10	123	138
9	3.6	14	27	160	250	344	119	452	16	8.5	82	72
10	3.9	15	25	110	200	365	101	234	15	7.2	60	49
11	3.9	16	25	90	180	940	88	161	13	7.6	45	77
12	9.5	16	32	80	664	582	81	155	14	7.6	34	116
13	12	17	70	85	2,300	374	79	141	23	6.4	26	41
14	96	18	97	1,950	1,010	300	97	115	27	6.0	21	50
15	117	23	85	1,410	700	537	103	90	740	5.6	18	29
16	78	41	183	463	600	843	97	76	542	5.2	16	19
17	49	56	918	290	1,130	376	87	65	189	4.5	14	15
18	30	43	452	210	3,060	270	78	56	103	973	12	14
19	23	37	248	160	1,300	356	70	49	97	3,630	11	14
20	21	378	174	130	2,500	557	65	44	878	785	9.5	50
21	19	632	138	100	1,140	367	61	37	324	232	8.5	385
22	42	256	1,060	95	9,880	290	61	33	164	134	8.5	202
23	29	149	3,720	85	3,240	234	80	29	105	84	9.5	98
24	22	98	1,830	80	960	188	80	29	69	89	89	57
25	19	72	492	70	504	168	63	88	51	123	57	38
26	18	62	280	60	444	152	54	145	38	99	56	30
27	15	56	200	58	760	138	49	98	28	69	81	29
28	13	51	140	55	521	128	52	65	22	96	76	76
29	14	46	110	52	-----	117	48	49	17	535	50	104
30	14	44	95	50	-----	105	42	39	17	234	28	57
31	15	-----	85	47	-----	95	-----	32	-----	141	18	-----
TOTAL	701.9	2,255	10,757	9,410	38,306	11,070	3,291	3,673	3,674	7,472.6	3,794.0	2,175
MEAN	22.6	75.2	347	304	1,368	357	110	118	122	241	122	72.5
MAX	117	632	3,720	1,990	9,880	1,130	405	890	878	3,630	1,330	385
MIN	2.8	14	25	47	41	95	42	29	13	4.5	8.5	11
CFSM	.08	.26	1.18	1.04	4.67	1.22	.38	.40	.42	.82	.42	.25
IN.	.09	.29	1.37	1.19	4.86	1.41	.42	.47	.47	.95	.48	.28

CAL YR 1970 TOTAL 84,365.7 MEAN 231 MAX 10,400 MIN 2.8 CFSM .79 IN 10.71
WTR YR 1971 TOTAL 96,579.5 MEAN 265 MAX 9,880 MIN 2.8 CFSM .90 IN 12.26

PEAK DISCHARGE (BASE, 7,500 CFS).--Feb. 22 (1300) 16,400 cfs (23.35 ft).

03366800 Quick Creek Reservoir near Austin, Ind.

LOCATION.--Lat 38°47'29", long 85°42'36", in NW¼NE¼ sec.14, T.4 N., R.7 E., Scott County, in intake tower of reservoir on Quick Creek, 4.1 miles upstream from White Oak Branch, and 5.7 miles northeast of Austin.

DRAINAGE AREA.--12.0 sq mi.

PERIOD OF RECORD.--June 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 575.05 ft above mean sea level (levels by Indiana Department of Natural Resources).

EXTREMES.--Current year: Maximum contents, 9,740 acre-ft Aug. 4, 5 (gage height, 21.93 ft); minimum, 3,510 acre-ft Oct. 8 (gage height, 9.52 ft).

Period of record: Maximum contents, 9,740 acre-ft Aug. 4, 5, 1971 (gage height, 21.93 ft); minimum, 3,380 acre-ft July 8, 1970 (gage height, 9.11 ft).

REMARKS.--Reservoir is formed by earth fill dam. Releases normally controlled by a 42-inch diameter pipe. Minimum design capacity is 770 acre-ft (gage height, -5.05 ft). Normal pool capacity is 11,960 acre-ft (gage height, 24.95 ft). Capacity at emergency spillway, 14,760 acre-ft (gage height, 28.45 ft), flood control pool capacity is 20,460 acre-ft (gage height, 34.95 ft). Reservoir used for flood control, recreation, and low-flow augmentation. Reservoir put in operation on June 4, 1970.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	9.62	3,540	-
Oct. 31.....	9.80	3,590	+50
Nov. 30.....	10.24	3,750	+160
Dec. 31.....	12.01	4,490	+740
Calendar year 1970.....	-	-	-
Jan. 31.....	13.35	5,010	+520
Feb. 28.....	19.59	8,260	+3,250
Mar. 31.....	20.63	8,910	+650
Apr. 30.....	20.85	9,050	+140
May 31.....	21.32	9,360	+310
June 30.....	21.42	9,430	+70
July 31.....	21.87	9,720	+290
Aug. 31.....	21.64	9,570	-150
Sept. 30.....	21.65	9,570	0
Water year 1971	-	-	+6,030

WABASH RIVER BASIN

03367000 Muscatatuck River near Austin, Ind.

LOCATION.--Lat 38°46'13", long 85°49'21", in NW¼SE¼ (revised) sec.23, T.4 N., R.6 E., Scott County, on right bank 15 ft downstream from bridge on U.S. Highway 31, 2 miles northwest of Austin, and 5.5 miles upstream from W. L. McClain ditch.

DRAINAGE AREA.--359 sq mi.

PERIOD OF RECORD.--August 1932 to September 1971 (discontinued) (high-water records only since October 1943).

AVERAGE DISCHARGE.--10 years (1932-35, 1936-43), 387 cfs (14.64 inches per year).

GAGE.--Water-stage recorder. Datum of gage is 513.96 ft above mean sea level. Prior to June 22, 1934, nonrecording gage at same site and datum. Nov. 8 to Dec. 30, 1939, nonrecording gage approximately 0.5 mile upstream at different datum. Aug. 1, 1940, to Sept. 30, 1943, auxiliary gage (for low flows) at Slate-Ford Bridge 2.2 miles upstream at different datum.

EXTREMES.--Current year: Maximum discharge, 14,000 cfs Feb. 23 (gage height, 23.90 ft).
Period of record: Maximum discharge, 53,900 cfs Jan. 22, 1959 (gage height, 29.20 ft).

REMARKS.--Records poor. Daily discharge not computed when gage height is below 13.0 ft.

REVISIONS (WATER YEARS).--WSP 1385: 1933(M). WSP 1505: 1956. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1												
2												
3												
4												
5					1,880						845	
6					3,310							
7					1,450	658						
8						769		652				
9												
10												
11						655						
12						715						
13					700							
14				1,000	2,100							
15				1,820	1,100							
16				795	720	703			662			
17					739							
18					2,510							
19					3,130					1,550		
20					2,340					2,340		
21					2,310					759		
22					4,010							
23			1,450		11,600							
24			3,210		4,900							
25			1,600		1,920							
26			714		704							
27					668							
28					649							
29												
30					-----				-----			
31		-----			-----		-----		-----			-----

03368000 Brush Creek near Nebraska, Ind.

LOCATION.--Lat 39°04'13", long 85°29'10", in NW¼NE¼ sec.11, T.7 N., R.9 E., Jennings County, on right bank at downstream side of county road bridge, 1.5 miles northwest of Nebraska, 2.9 miles northeast of Butlerville, and 3.6 miles upstream from Brush Creek Dam.

DRAINAGE AREA.--11.4 sq mi.

PERIOD OF RECORD.--May 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 717.17 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--16 years, 12.0 cfs (14.29 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,460 cfs Feb. 22 (gage height, 7.90 ft); no flow for many days.
Period of record: Maximum discharge, 3,440 cfs May 24, 1968 (gage height, 11.40 ft), from rating curve extended above 440 cfs on basis of contracted-opening measurement of peak flow at gage height, 9.70 ft; no flow at times most years.

REMARKS.--Records fair except those for January and February, which are poor.

REVISIONS.--WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.12	.54	.64	.45	.02	7.0	11	.75	.40	.26	.12	.31
2	.09	.64	.54	.40	.01	6.0	30	.83	.45	.21	.06	.56
3	.09	.75	.54	.90	.01	5.0	8.1	.83	.45	.21	23	15
4	.09	.64	.64	96	113	5.0	5.8	.75	.36	.12	8.0	3.0
5	.09	.45	.75	8.7	73	4.5	4.6	.75	.31	.16	2.8	1.0
6	.09	.36	.75	2.0	4.5	75	4.6	1.8	.21	.21	1.0	3.0
7	.02	.40	.64	1.0	2.0	36	3.9	14	.21	.16	.54	2.0
8	0	.45	.64	.80	1.3	15	3.3	16	.16	.09	.40	.83
9	.01	.49	.83	.65	1.1	8.9	2.9	4.6	.12	.06	.31	.49
10	0	.91	.83	.55	1.0	41	2.5	3.1	.09	.03	.31	.45
11	0	1.1	.83	.50	.90	31	2.2	4.8	.09	.75	.49	6.7
12	.09	1.3	1.4	.45	149	17	2.1	6.1	.16	.45	.40	1.7
13	1.5	1.3	1.5	11	33	11	2.1	3.9	.31	.26	.31	.75
14	26	1.8	1.2	33	9.0	8.1	2.4	2.7	5.9	.09	.21	.45
15	1.3	3.5	1.1	5.5	4.0	67	2.1	2.2	7.8	.06	.12	.36
16	.91	2.5	8.7	1.8	3.0	19	1.9	1.9	1.6	.16	.06	.36
17	1.2	2.1	6.7	1.0	184	9.6	1.6	1.5	.83	.06	.03	.36
18	.91	1.9	3.1	.70	36	7.6	1.5	1.3	.45	1.6	.01	.26
19	.54	1.8	2.2	.45	80	32	1.4	1.2	44	3.0	0	.26
20	.91	35	1.5	.40	63	22	1.3	1.3	4.9	.49	0	25
21	1.6	3.9	1.9	.35	26	12	1.4	1.0	3.1	.21	0	2.4
22	1.3	1.9	45	.30	507	9.6	1.4	.91	1.8	.12	.55	.91
23	.91	1.3	46	.25	41	7.6	1.3	.75	1.0	.02	.31	.54
24	.64	.83	9.0	.20	18	6.7	1.1	.84	.75	.49	.12	.49
25	.49	.64	3.7	.25	13	6.1	1.0	3.2	.64	.36	9.8	.45
26	.45	.64	2.0	.15	43	5.2	1.0	1.3	.49	.12	10	1.3
27	.36	.64	1.3	.12	35	4.6	.91	.83	.40	.09	1.1	1.8
28	.36	.64	.95	.10	9.6	4.4	1.0	.64	1.3	1.1	.45	1.3
29	.54	.54	.75	.08	-----	3.7	.91	.64	.91	3.7	.36	.83
30	.75	.54	.60	.06	-----	3.1	.83	.54	.36	.49	.36	.64
31	.64	-----	.50	.04	-----	2.9	-----	.45	-----	.26	.36	-----
TOTAL	42.00	65.50	146.73	168.15	1,450.44	493.6	106.15	81.41	79.55	15.39	61.58	73.50
MEAN	1.35	2.32	4.73	5.42	51.8	15.9	3.54	2.63	2.65	.50	1.99	2.45
MAX	26	35	46	96	507	75	30	16	44	3.7	23	25
MIN	0	.36	.50	.04	.01	2.9	.93	.45	.09	.02	0	.26
CFSM	.12	.20	.41	.48	4.54	1.39	.31	.23	.23	.04	.17	.21
IN.	.14	.23	.48	.55	4.73	1.61	.35	.27	.26	.05	.20	.24

CAL YR 1970 TOTAL 3,380.77 MEAN 9.26 MAX 376 MIN 0 CFSM .81 IN 11.03
WTR YR 1971 TOTAL 2,788.00 MEAN 7.64 MAX 507 MIN 0 CFSM .67 IN 9.10

PEAK DISCHARGE (BASE, 950 CFS).--Feb. 22 (0300) 1,460 cfs (7.90 ft).

WABASH RIVER BASIN

03368400 Brush Creek Reservoir near Butlerville, Ind.

LOCATION (revised).--Lat 39°03'37", long 85°31'29", in NW¼NE¼ sec.16, T.7 N., R.9 E., Jennings County, at dam at Muscatatuck State School, 1.5 miles northwest of Butlerville.

DRAINAGE AREA.--14.3 sq mi.

PERIOD OF RECORD.--November 1953 to current year.

GAGE.--Water-stage recorder. Datum of gage is 680.00 ft above mean sea level.

EXTREMES.--Current year: Maximum contents, 2,612 acre-ft Feb. 22 (gage height, 37.78 ft); minimum contents, 1,747 acre-ft Oct. 8 (gage height, 33.13 ft).

Period of record: Maximum contents, 3,830 acre-ft Jan. 21, 1959 (gage height, 42.66 ft); minimum contents since reaching minimum pool elevation of 714.66 ft, 1,193 acre-ft Nov. 24, 1964 (gage height, 29.58).

REMARKS.--Reservoir is formed by earth fill dam. Releases normally controlled by a 24-inch diameter gate in gate well of 24-inch concrete pipe. Capacity at uncontrolled spillway elevation (35.0 ft) is 2,080 acre-ft. Reservoir is used for recreation and low-flow augmentation for Muscatatuck State School and city of North Vernon. Reservoir was put in operation on Nov. 13, 1953.

COOPERATION.--Capacity tables furnished by Indiana Department of Natural Resources.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Gage height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	33.27	1,771	-
Oct. 31.....	33.65	1,837	+66
Nov. 30.....	34.61	2,010	+173
Dec. 31.....	35.15	2,107	+97
Calendar year 1970.....	-	-	+247
Jan. 31.....	35.08	2,094	-13
Feb. 28.....	35.38	2,148	+54
Mar. 31.....	35.17	2,111	-37
Apr. 30.....	35.04	2,087	-24
May 31.....	34.98	2,076	-11
June 30.....	34.98	2,076	0
July 31.....	34.68	2,022	-54
Aug. 31.....	35.00	2,080	+58
Sept. 30.....	35.06	2,091	+11
Water year 1971	-	-	+320

03369000 Vernon Fork near Butlerville, Ind.

LOCATION.--Lat 39°02'55", long 85°32'40", in NW¼SE¼ sec.17, T.7 N., R.9 E., Jennings County, on left bank 0.3 mile downstream from Muscatatuck State School dam, 1.2 miles downstream from Erush Creek, and 2 miles northwest of Butlerville.

DRAINAGE AREA.--85.9 sq mi.

PERIOD OF RECORD.--February 1942 to current year. Prior to October 1960, published as North Fork of Vernon Fork near Butlerville.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 669.40 ft above mean sea level. Prior to Aug. 19, 1942, non-recording gage at same site and datum.

AVERAGE DISCHARGE.--29 years, 90.8 cfs (14.36 inches per year).

EXTREMES.--Current year: Maximum discharge, 5,580 cfs Feb. 22 (gage height, 12.83 ft); minimum daily, 0.16 cfs Oct. 11.
Period of record: Maximum discharge, 26,200 cfs Jan. 21, 1959 (gage height, 25.41 ft), from rating curve extended above 10,000 cfs on basis of slope-area measurement of peak flow; no flow at times most years.

REMARKS.--Records fair. Water supply for the Muscatatuck State School is diverted and the sewage effluent returned above station. Flow regulated by Brush Creek Reservoir. (See station 03368400).

REVISIONS.--WRD Ind, 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.76	2.8	6.2	11	4.5	94	32	9.6	8.7	3.7	6.0	2.6
2	.63	3.6	5.9	11	4.0	72	202	10	8.9	5.3	4.1	2.8
3	.35	3.6	5.7	14	4.0	63	99	9.7	9.4	7.5	21	337
4	.19	3.9	5.2	397	230	59	62	9.1	7.8	4.0	19	136
5	.26	3.2	3.5	160	520	53	48	8.7	6.1	2.8	18	31
6	.30	2.9	3.8	55	93	199	42	13	5.0	2.2	12	17
7	.26	2.8	3.7	37	37	301	40	35	4.8	1.4	8.8	15
8	.26	2.6	3.7	26	24	133	35	125	11	1.3	6.4	14
9	.35	2.9	3.7	19	18	86	30	57	9.6	1.0	4.7	9.7
10	.22	3.6	3.7	17	17	127	26	37	5.7	.92	3.8	7.3
11	.16	3.4	4.0	16	16	277	23	31	3.9	3.1	3.4	7.1
12	.35	3.2	5.2	16	479	151	21	36	4.1	2.2	2.2	26
13	1.5	3.1	5.2	20	437	102	21	30	4.0	1.3	2.2	13
14	14	4.3	5.6	271	121	81	23	24	7.9	1.1	1.9	8.7
15	25	4.3	6.0	104	64	424	22	20	118	2.4	1.5	6.1
16	13	5.2	9.8	40	51	198	19	17	50	2.2	1.6	3.9
17	8.3	7.8	39	30	997	108	18	14	19	1.1	1.3	3.2
18	5.2	7.8	29	20	390	78	16	13	12	4.6	1.2	2.4
19	3.9	6.8	20	15	289	158	15	21	85	9.7	1.1	2.1
20	4.6	64	16	14	721	163	14	163	114	3.2	1.2	82
21	3.7	41	15	13	220	165	16	33	38	1.9	1.7	72
22	3.7	19	166	12	3,010	121	16	20	29	1.5	4.8	25
23	4.5	14	199	12	431	82	15	15	17	1.3	2.5	15
24	5.5	11	106	11	185	61	14	14	12	3.4	2.9	10
25	6.4	8.3	49	10	130	52	13	67	9.5	2.7	31	8.5
26	5.5	7.8	27	9.0	231	46	12	32	7.3	8.0	38	147
27	5.0	7.5	21	8.0	367	41	12	20	5.6	8.1	20	50
28	4.1	7.3	17	7.0	149	38	12	15	5.8	7.6	12	23
29	4.8	7.1	14	5.0	-----	34	11	13	8.4	53	7.1	15
30	3.7	6.6	13	8.0	-----	30	10	11	4.6	24	4.8	11
31	3.2	-----	12	6.0	-----	28	-----	9.5	-----	10	3.2	-----
TOTAL	129.69	271.4	824.3	1,394.0	9,239.5	3,625	939	932.6	632.1	182.52	249.4	1,103.4
MEAN	4.18	9.05	26.6	45.0	330	117	31.3	30.1	21.1	5.89	8.05	36.8
MAX	25	64	199	397	3,010	424	202	163	118	53	38	337
MIN	.16	2.6	3.7	5.0	4.0	28	10	8.7	3.9	.92	1.1	2.1
CFSM	.05	.11	.31	.52	3.84	1.36	.36	.35	.25	.07	.09	.43
IN.	.06	.12	.36	.60	4.00	1.57	.41	.40	.27	.08	.11	.48

CAL YR 1970 TOTAL 28,819.17 MEAN 79.0 MAX 3,480 MIN .16 CFSM .92 IN 12.49
WTR YR 1971 TOTAL 19,522.91 MEAN 53.5 MAX 3,010 MIN .16 CFSM .62 IN 8.45

PEAK DISCHARGE (BASE, 4,000 CFS).--Feb. 22 (0815) 5,580 cfs (12.83 ft).

WABASH RIVER BASIN

03369500 Vernon Fork at Vernon, Ind.

LOCATION.--Lat 38°58'34", long 85°37'13", in NW¼SE¼ sec.10, T.6 N., R.8 E., Jennings County, at downstream end of left bank bridge pier, 1 mile southwest of Vernon, and 3.1 miles downstream from South Fork Vernon Fork.

DRAINAGE AREA.--198 sq mi.

PERIOD OF RECORD.--October 1939 to current year. Monthly discharge only for some periods, published in WSP 1305.

GAGE.--Water-stage recorder. Datum of gage is 587.30 ft above mean sea level, supplementary adjustment of 1944 (levels by Indiana Flood Control and Water Resources Commission). Prior to Jan. 14, 1940, and June 23 to Nov. 13, 1967, nonrecording gage, and Jan. 14, 1940, to June 22, 1967, water-stage recorder at site on right bank at same datum.

AVERAGE DISCHARGE.--32 years, 212 cfs (14.54 inches per year).

EXTREMES.--Current year: Maximum discharge, 11,400 cfs Feb. 22 (gage height, 16.43 ft); minimum daily, 1.4 cfs Oct. 6.
Period of record: Maximum discharge, 56,800 cfs Jan. 21, 1959 from rating curve extended above 24,000 cfs on basis of slope-area measurement of peak flow (gage height, 32.83 ft from high-water mark). No flow at times in 1940, 1943-44.

REMARKS.--Records fair. Diversion above station for municipal water supply of North Vernon and Vernon. Part of this diversion returned above gage as sewage effluent by North Vernon Sewage Treatment Plant.

REVISIONS (WATER YEARS).--WSP 1335: 1940, 1953. WSP 1909: 1952-53. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.2	10	20	34	15	227	100	28	16	17	9.5	10
2	4.5	10	18	32	14	186	250	28	16	9.3	4.8	9.0
3	3.2	13	18	30	13	160	550	29	16	6.6	143	228
4	2.5	13	18	1,100	334	150	200	27	14	6.6	609	568
5	1.5	14	17	558	1,770	135	122	25	14	6.0	308	161
6	1.4	13	15	184	363	239	113	32	12	4.6	131	74
7	1.7	13	14	117	187	977	108	75	10	3.9	66	135
8	1.8	12	13	70	120	344	94	414	9.5	2.9	35	86
9	2.3	11	13	60	50	224	83	207	10	2.2	22	47
10	4.0	13	13	50	70	248	71	124	13	1.6	17	26
11	3.2	14	14	45	60	678	63	90	8.8	2.9	14	23
12	2.8	14	22	44	824	352	59	157	11	2.2	12	69
13	7.4	14	31	66	1,530	258	57	126	9.5	2.1	9.8	68
14	38	15	31	669	420	200	61	92	67	5.1	8.4	38
15	61	25	24	387	210	450	62	74	525	5.5	6.6	22
16	53	31	72	171	150	1,200	57	63	229	3.9	5.3	16
17	23	30	247	124	1,620	400	52	56	87	2.6	4.3	12
18	14	25	159	75	1,430	200	48	48	42	14	4.6	9.9
19	12	22	95	55	665	250	44	44	133	290	4.4	8.4
20	11	390	68	45	1,630	500	43	176	345	44	3.9	228
21	12	339	58	40	589	600	41	80	136	13	3.9	352
22	13	119	625	35	6,420	350	78	47	84	5.1	54	126
23	13	70	866	35	1,250	250	54	35	50	2.6	30	60
24	14	47	464	35	476	200	45	33	30	4.1	10	34
25	12	33	193	35	311	150	40	95	19	6.0	8.9	22
26	12	27	121	38	382	130	36	102	15	4.1	444	116
27	12	26	80	30	876	120	35	51	11	2.7	138	190
28	10	24	60	25	362	110	36	35	8.8	4.3	59	127
29	12	22	50	20	-----	100	34	26	12	22	28	67
30	13	21	40	18	-----	90	31	22	21	51	17	36
31	12	-----	37	16	-----	80	-----	19	-----	19	12	-----
TOTAL	409.5	1,430	3,516	4,243	22,181	9,558	2,667	2,469	1,974.6	566.9	2,223.9	2,968.3
MEAN	13.2	47.7	113	137	792	308	88.9	79.6	65.8	18.3	71.7	98.0
MAX	81	390	866	1,100	6,420	1,200	550	414	525	290	609	568
MIN	1.4	10	13	16	13	80	31	19	8.8	1.6	3.9	8.4
CFSM	.07	.24	.57	.69	4.00	1.56	.45	.40	.33	.09	.36	.50
IN.	.08	.27	.66	.80	4.17	1.80	.50	.46	.37	.11	.42	.56

CAL YR 1970 TOTAL 59,127.5 MEAN 162 MAX 6,140 MIN 1.4 CFSM .82 IN 11.11
WTR YR 1971 TOTAL 54,207.2 MEAN 149 MAX 6,420 MIN 1.4 CFSM .75 IN 10.18

PEAK DISCHARGE (BASE 6,000 CFS).--Feb. 22 (1145) 11,400 cfs (16.43 ft).

03371500 East Fork White River near Bedford, Ind.

LOCATION.--Lat 38°46'10", long 86°24'30", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 21, T. 4 N., R. 1 E., Lawrence County, on downstream side of center pier of bridge on county road, 0.4 mile upstream from Mill Creek, 2.9 miles downstream from Sugar Creek, 3.9 miles northeast of Mitchell, and 7.8 miles southeast of Bedford.

DRAINAGE AREA.--3,861 sq mi.

PERIOD OF RECORD.--May 1939 to current year (high-water records only October 1943 to September 1957).

GAGE.--Water-stage recorder. Datum of gage is 473.59 ft above mean sea level. Prior to Feb. 6, 1940, nonrecording gage, and Feb. 6, 1940, to Sept. 24, 1957, water-stage recorder, at site 9.7 miles downstream at datum 4.39 ft lower (now used as an auxiliary gage).

AVERAGE DISCHARGE.--18 years (1939-43, 1957-71), 2,905 cfs (12.42 inches per year).

EXTREMES.--Current year: Maximum discharge, 37,400 cfs Feb. 25 (gage height, 27.32 ft); maximum gage height, 27.51 ft Feb. 25; minimum daily discharge, 382 cfs Oct. 8.

Period of record: Maximum discharge, 75,700 cfs Mar. 12, 1964; maximum gage height, 35.97 ft May 11, 1961; minimum daily discharge, 138 cfs Sept. 7, 1941.

Flood in March 1913 reached a stage of 47.5 ft, from floodmark determined by Corps of Engineers (discharge, 155,000 cfs) at former site.

REMARKS.--Records good.

REVISIONS.--WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	427	565	896	1,700	1,120	17,900	2,350	1,210	1,800	1,380	1,400	537
2	423	570	860	1,600	1,090	15,400	2,340	1,190	1,700	1,650	1,180	501
3	414	570	833	1,400	1,030	13,000	2,650	1,160	1,600	1,500	1,010	489
4	409	575	822	2,560	1,500	10,300	3,380	1,120	1,550	1,320	2,010	476
5	405	580	816	4,440	4,410	7,490	3,350	1,100	1,540	1,190	2,570	492
6	391	580	805	6,230	6,430	5,990	2,910	1,210	1,560	1,080	3,390	916
7	387	585	794	7,140	8,080	5,760	2,650	2,270	1,470	985	3,030	953
8	382	580	794	6,770	9,490	6,220	2,540	3,980	1,370	917	1,950	807
9	391	570	800	5,350	10,200	6,980	2,450	4,800	1,290	869	1,330	717
10	400	570	783	3,000	10,100	6,900	2,310	5,600	1,290	832	1,060	761
11	391	575	761	2,000	7,270	6,500	2,170	5,440	1,480	808	931	801
12	432	580	756	1,800	5,190	6,600	2,040	4,740	1,760	792	939	765
13	505	580	756	1,600	6,640	7,350	1,940	3,870	1,660	814	774	758
14	630	590	761	3,340	7,260	6,820	1,880	3,290	1,540	1,180	723	703
15	600	620	772	5,280	8,270	6,410	1,870	3,060	2,420	1,190	677	697
16	630	665	860	5,740	8,600	6,860	1,870	2,870	3,620	1,020	648	714
17	734	701	1,430	5,660	8,330	7,580	1,840	2,550	4,930	915	621	679
18	778	723	2,190	4,590	8,550	7,810	1,780	2,250	4,800	1,190	592	621
19	772	723	2,540	3,280	9,200	6,870	1,710	2,050	3,460	2,030	570	576
20	739	1,070	2,350	2,600	11,900	5,870	1,650	1,930	2,280	3,570	551	592
21	706	1,860	2,090	2,350	15,600	5,640	1,590	1,940	1,990	4,210	534	630
22	685	2,350	2,470	2,100	18,900	5,650	1,540	2,040	2,940	3,900	581	807
23	670	2,430	5,570	1,900	23,500	5,290	1,490	1,840	3,090	2,420	552	1,160
24	650	2,010	6,820	1,700	29,500	4,750	1,480	1,670	2,830	1,510	513	1,070
25	620	1,620	6,610	1,600	36,300	4,150	1,450	2,060	2,420	1,240	497	900
26	600	1,360	6,370	1,500	33,600	3,680	1,400	2,130	2,030	1,170	497	787
27	580	1,180	5,750	1,400	28,200	3,320	1,350	2,310	1,750	1,100	532	712
28	560	1,080	3,700	1,350	21,500	3,070	1,330	2,800	1,550	1,000	627	764
29	560	1,000	2,400	1,300	-----	2,840	1,280	2,710	1,390	1,190	705	911
30	565	944	2,100	1,230	-----	2,650	1,240	2,310	1,270	1,560	628	871
31	570	-----	1,900	1,180	-----	2,480	-----	2,000	-----	1,640	576	-----
TOTAL	17,006	28,406	67,159	93,690	341,760	207,830	59,830	79,500	64,380	46,172	32,498	22,167
MEAN	549	947	2,166	3,022	12,210	6,704	1,994	2,565	2,146	1,489	1,049	739
MAX	778	2,430	6,820	7,140	36,300	17,900	3,380	5,600	4,930	4,210	3,390	1,160
MIN	382	565	756	1,180	1,030	2,480	1,240	1,100	1,270	792	497	476
CFSM	.14	.25	.56	.78	3.16	1.74	.52	.66	.56	.39	.27	.19
IN.	.16	.27	.65	.90	3.29	2.00	.58	.77	.62	.44	.31	.21

CAL YR 1970 TOTAL 1,117,522 MEAN 3,062 MAX 22,300 MIN 382 CFSM .79 IN 10.77
WTR YR 1971 TOTAL 1,060,398 MEAN 2,905 MAX 36,300 MIN 382 CFSM .75 IN 10.22

PEAK DISCHARGE (BASE, 13,000 CFS).--Feb. 25 (1000) 37,400 cfs (27.51 ft at 2030 Feb. 25).

WABASH RIVER BASIN

03371520 Back Creek at Leesville, Ind.

LOCATION.--Lat 38°50'48", long 86°18'06", in SW¼SE¼ sec.21, T.5 N., R.2 E., Lawrence County, on left bank at downstream side of county road bridge, 0.9 mile west of Leesville, 2.5 miles upstream from Jones Defeat Hollow and 7 miles from mouth.

DRAINAGE AREA.--24.1 sq mi.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 575.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,130 cfs Feb. 22 (gage height, 5.47 ft); no flow for many days in October and July.
Period of record: Maximum discharge, 1,130 cfs Feb. 22, 1971 (gage height, 5.47 ft); no flow for many days in October 1970 and July 1971.
Flood in 1913 reached a stage of 18.1 ft (information by local resident).

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.35	3.1	2.4	5.0	.45	32	18	3.4	7.0	.08	4.4	.40
2	.25	3.1	1.7	4.5	.40	29	33	3.8	12	.08	2.7	.40
3	.15	3.1	1.7	8.0	.37	26	26	3.0	12	.08	3.0	.40
4	0	3.8	3.8	2.1	.80	24	24	3.0	5.0	0	4.5	.15
5	.13	3.1	3.1	63	194	22	21	3.8	3.4	.16	24	.16
6	.16	2.4	2.4	38	53	32	22	128	2.7	.16	8.2	1.2
7	.13	2.4	1.8	27	27	39	22	137	2.3	.16	3.8	2.3
8	.10	1.7	1.3	20	23	33	21	96	2.3	.08	2.7	.77
9	.15	2.4	1.0	15	20	28	19	47	1.9	0	2.1	.40
10	.10	3.8	1.0	12	18	45	17	36	1.8	.08	1.6	.16
11	0	5.2	1.0	10	16	45	14	41	1.6	.16	1.3	29
12	.17	4.5	2.4	9.0	155	41	15	38	1.8	.16	1.0	3.4
13	.60	3.1	3.1	19	80	35	12	32	1.9	.08	.85	1.6
14	5.0	3.8	2.4	44	45	31	17	28	2.7	0	.60	1.2
15	13	8.3	2.4	33	30	70	14	22	3.4	0	.60	.85
16	4.5	8.3	18	22	20	49	14	18	2.3	0	.50	1.0
17	2.5	6.7	33	17	212	38	12	15	1.8	0	.40	.85
18	1.5	5.9	23	13	82	32	11	11	1.5	17	.32	.85
19	1.2	5.9	17	11	140	33	9.6	26	1.2	22	.24	.85
20	3.0	36	12	9.2	145	28	8.2	25	1.0	3.0	.16	5.0
21	2.5	20	15	7.5	74	26	7.0	15	1.2	1.8	.24	5.0
22	3.1	13	70	6.0	560	24	7.0	11	.85	1.0	.32	4.4
23	2.4	11	75	4.5	117	19	6.0	9.2	.70	.85	.40	3.0
24	1.0	6.7	47	3.5	59	17	5.0	42	.50	1.0	.40	2.5
25	1.0	5.9	33	2.0	44	14	4.4	57	.40	.85	.24	2.7
26	0	5.9	24	1.5	45	14	4.4	32	.32	.70	.32	25
27	0	5.2	16	1.0	59	11	3.8	25	.24	.40	.32	11
28	0	4.5	11	.80	42	11	5.0	19	.16	109	.32	7.0
29	2.4	3.1	8.5	.65	-----	11	3.8	15	.08	25	.32	5.0
30	3.1	2.4	6.5	.55	-----	11	3.8	11	.08	14	.24	3.8
31	4.5	-----	6.0	.50	-----	9.6	-----	7.0	-----	9.6	.32	-----
TOTAL	52.99	194.3	446.5	628.20	2,341.22	879.6	400.0	959.2	74.13	207.48	106.91	120.28
MEAN	1.71	6.48	14.4	20.3	83.6	28.4	13.3	30.9	2.47	6.69	3.45	4.01
MAX	13	36	75	221	560	70	33	137	12	109	45	29
MIN	0	1.7	1.0	.50	.37	9.6	3.8	3.0	.08	0	.16	.16
CFSM	.07	.27	.60	.84	3.47	1.18	.55	1.28	.10	.28	.14	.17
IN.	.08	.30	.69	.97	3.61	1.36	.62	1.48	.11	.32	.17	.19

WTR YR 1971 TOTAL 6,410.81 MEAN 17.6 MAX 560 MIN 0 CFSM .73 IN 9.90

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0300	4.12	408	02-19	1930	4.58	620
02-05	0130	4.40	530	02-22	0300	5.47	1,130
02-12	1700	4.21	444	05-06	1230	4.87	772
02-17	0900	4.17	428	07-28	1800	4.69	690

03371600 South Fork Salt Creek at Kurtz, Ind.

LOCATION.--Lat 38°57'46", long 86°12'12", In SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.9, T.6 N., R.3 E., Jackson County, on right bank at downstream side of county road bridge, at north edge of Kurtz, 0.8 mile upstream from right-bank tributary, and 6.1 miles upstream from Little Salt Creek.

DRAINAGE AREA.--38.2 sq mi.

PERIOD OF RECORD.--October 1960 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 568.00 ft above mean sea level (unadjusted).

AVERAGE DISCHARGE.--11 years, 39.9 cfs (14.18 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,510 cfs Feb. 22 (gage height, 10.51 ft); no flow for many days.

Period of record: Maximum discharge, 6,400 cfs May 24, 1968 (gage height, 13.84 ft); no flow at times most years.

Flood in January 1959 reached a stage of approximately 15 ft, from floodmarks.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1909: 1961-62. WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.10	11	2.4	1.8	1.7	54	16	2.8	5.7	.63	2.4	0
2	.07	13	2.0	1.6	1.5	47	40	3.4	24	.50	1.5	0
3	.03	15	1.8	1.5	1.3	41	26	3.5	34	.37	1.2	11
4	.02	13	1.8	707	100	32	21	2.8	16	.23	72	9.2
5	0	12	1.2	98	466	28	19	2.9	9.6	.14	42	1.2
6	0	11	.95	45	96	69	20	8.7	6.9	.11	17	3.3
7	0	9.6	.80	30	54	83	20	139	4.3	.09	9.1	19
8	0	8.7	.80	20	35	58	17	136	5.5	.07	6.4	2.5
9	.05	9.1	1.0	14	25	46	15	51	4.3	.04	4.9	.70
10	4.7	16	.90	12	22	124	13	31	2.1	.03	4.5	.23
11	1.1	13	.90	10	20	105	11	26	1.4	.04	5.6	28
12	36	11	1.8	12	412	74	11	23	3.5	.15	2.8	4.6
13	36	9.6	2.6	28	215	56	10	18	3.2	.09	1.8	.77
14	53	12	1.4	100	114	47	12	14	312	.08	1.2	.34
15	30	21	1.1	60	60	195	10	11	594	.04	1.0	.15
16	13	13	161	40	35	93	9.3	10	86	.02	.72	.09
17	8.7	9.6	88	30	388	61	8.6	8.4	42	.07	.49	.10
18	6.8	7.9	28	20	166	48	8.2	7.1	25	121	.39	.07
19	5.6	7.2	17	15	295	54	7.5	19	16	410	.38	0
20	23	178	11	12	289	46	6.8	23	12	31	.25	4.1
21	33	25	14	10	126	38	6.6	11	52	12	.19	6.3
22	19	13	198	8.5	1,240	33	6.2	8.0	19	5.9	.42	1.1
23	13	7.9	122	8.0	175	27	5.5	6.2	11	3.2	.47	.49
24	10	4.5	47	7.6	91	23	5.1	18	7.4	3.3	.24	.23
25	10	3.2	25	7.3	67	21	4.4	72	7.2	3.9	.25	.26
26	12	3.8	13	9.6	83	27	4.1	28	7.0	2.1	1.5	32
27	14	3.8	7.0	5.6	128	17	4.1	19	3.3	1.1	.96	7.2
28	17	3.0	5.0	4.5	70	16	4.7	13	1.8	62	.31	4.1
29	31	2.6	3.5	3.5	-----	14	3.7	9.4	1.1	30	.11	2.8
30	18	2.4	2.5	2.5	-----	12	3.1	7.0	.79	5.6	.05	2.0
31	13	-----	2.1	2.0	-----	11	-----	5.2	-----	3.8	.02	-----
TOTAL	408.17	469.9	765.55	1,340.5	4,776.5	1,600	348.9	737.4	1,318.09	697.60	180.15	141.83
MEAN	13.2	15.7	24.7	43.2	171	51.6	11.6	23.8	43.9	22.5	5.81	4.73
MAX	53	178	198	707	1,240	195	40	139	594	410	72	32
MIN	0	2.4	.80	1.6	1.3	11	3.1	2.8	.79	.02	.02	0
CFSM	.35	.41	.65	1.13	4.48	1.35	.30	.62	1.15	.59	.15	.12
IN.	.40	.46	.75	1.31	4.65	1.56	.34	.72	1.28	.68	.18	.14

CAL YR 1970 TOTAL 13,357.41 MEAN 36.6 MAX 1,600 MIN 0 CFSM .96 IN 13.01
WTR YR 1971 TOTAL 12,784.59 MEAN 35.0 MAX 1,240 MIN 0 CFSM .92 IN 12.45

PEAK DISCHARGE (BASE, 1,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0400	8.65	1,690	06-14	2315	9.82	2,160
02-22	0615	10.51	2,510	07-19	0630	9.70	2,110

03371650 North Fork Salt Creek at Nashville, Ind.

LOCATION.--Lat 39°12'06", long 86°14'51", in NW¼SW¼ sec.19, T.9 N., R.3 E., Brown County, on right bank 90 ft downstream from bridge on State Highway 46, 800 ft downstream from Greasy Creek, and 0.4 mile south of center of Nashville.

DRAINAGE AREA.--76.1 sq mi.

PERIOD OF RECORD.--July 1962 to current year.

GAGE.--Water-stage recorder. Datum of gage is 579.58 ft above mean sea level. Prior to September 16, 1964, nonrecording gage at site 90 ft upstream at same datum.

AVERAGE DISCHARGE.--9 years, 72.0 cfs (12.84 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,750 cfs Feb. 22 (gage height, 12.44 ft); minimum daily, 0.44 cfs Sept. 14, 15.
Period of record: Maximum discharge, 7,500 cfs Mar. 4, 1963; maximum gage height, 16.00 ft May 24, 1968; no flow at times most years.

REMARKS.--Records good.

REVISIONS.--WRD Ind, 1968: Drainage area. *

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	14	15	17	6.0	146	43	9.6	18	3.2	5.7	.71
2	1.4	14	14	15	5.6	124	70	9.6	36	2.4	4.1	.71
3	1.4	14	13	30	5.2	107	61	8.8	42	2.1	3.2	.85
4	1.2	15	12	1,280	110	89	55	8.0	35	1.7	3.8	.85
5	1.1	15	11	254	545	80	51	7.6	26	2.0	4.8	.85
6	.92	18	10	133	197	115	54	100	19	1.8	3.8	1.8
7	1.2	16	8.8	84	120	205	60	638	14	2.0	3.0	9.2
8	1.7	14	8.4	58	74	158	55	588	19	1.8	2.4	3.4
9	3.2	14	8.8	45	58	126	52	194	18	1.5	2.0	1.7
10	8.4	16	8.4	37	52	175	46	126	13	1.5	1.8	1.2
11	5.1	18	8.0	34	63	205	43	100	10	1.8	4.8	.92
12	4.8	18	9.2	32	247	170	40	93	14	1.7	3.8	.85
13	10	16	9.6	34	349	140	37	75	13	2.0	2.8	.57
14	60	18	9.2	58	196	120	38	61	12	1.6	2.1	.44
15	44	40	8.4	53	135	175	35	50	58	1.4	1.7	.44
16	16	28	48	41	94	154	32	43	65	2.4	1.5	.64
17	8.8	20	145	35	615	122	29	37	30	2.6	1.3	.64
18	6.1	15	86	27	405	104	27	30	18	24	1.1	.57
19	4.6	12	64	23	653	145	24	26	13	63	1.1	.57
20	7.2	170	49	20	808	157	22	23	9.6	24	1.0	1.8
21	20	105	62	18	295	133	22	18	.16	11	.85	3.2
22	21	66	231	17	2,050	115	24	14	10	6.4	.85	1.8
23	14	47	152	16	440	96	21	13	6.8	4.6	.85	1.6
24	11	35	95	15	238	81	19	28	5.1	4.3	.85	1.3
25	8.0	29	71	16	181	72	18	136	6.4	6.1	.78	1.8
26	7.2	26	52	17	199	64	16	73	6.1	4.3	.71	14
27	8.0	24	41	13	268	58	14	48	4.6	3.0	.57	14
28	8.4	21	31	10	190	54	14	36	3.4	3.8	.57	7.2
29	14	18	26	8.7	-----	48	12	28	3.0	28	.57	14
30	15	16	22	7.6	-----	44	11	22	2.8	12	.71	23
31	16	-----	20	6.6	-----	39	-----	18	-----	8.4	.71	-----
TOTAL	331.22	892	1,348.8	2,454.9	8,598.8	3,621	1,045	2,661.6	546.8	236.4	63.82	110.61
MEAN	10.7	29.7	43.5	79.2	307	117	34.8	85.9	18.2	7.63	2.06	3.69
MAX	60	170	231	1,280	2,050	205	70	638	65	63	5.7	23
MIN	.92	12	8.0	6.6	5.2	39	11	7.5	2.8	1.4	.57	.44
CFSM	.14	.39	.57	1.04	4.03	1.54	.45	1.13	.24	.10	.03	.05
IN.	.16	.44	.66	1.20	4.20	1.77	.51	1.30	.27	.12	.03	.05

CAL YR 1970 TOTAL 24,762.94 MEAN 67.8 MAX 2,670 MIN .92 CFSM .89 IN 12.10
WTR YR 1971 TOTAL 21,910.95 MEAN 60.0 MAX 2,050 MIN .44 CFSM .79 IN 10.71

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0530	10.90	2,640	02-22	0930	12.44	3,750
02-19	2300	10.49	2,400	05-07	2115	9.84	2,070

03372000 North Fork Salt Creek near Belmont, Ind.

LOCATION.--Lat 39°09'00", long 85°20'14", in SW 1/4 sec. 5, T. 8 N., R. 2 E., Brown County, on right bank 15 ft downstream from bridge on State Highway 46, 100 ft upstream from Schooner Creek, 0.7 mile northeast of Belmont, 6.5 miles upstream from Brummet Creek, and 20 miles upstream from mouth. Records include flow of Schooner Creek.

DRAINAGE AREA.--120 sq mi, includes that of Schooner Creek.

PERIOD OF RECORD.--April 1946 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 543.62 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 9, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 130 cfs (14.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,440 cfs Feb. 22 (gage height, 18.35 ft); minimum daily, 0.44 cfs Sept. 1, 2. Period of record: Maximum discharge, 13,300 cfs June 23, 1960 (gage height, 23.10 ft); no flow at times most years. Flood in March 1913 reached a stage of 25.7 ft, from information by local residents.

REMARKS.--Records good, except those below 10 cfs which are fair.

REVISIONS (WATER YEARS).--WSP 1275: Drainage area. WSP 1335: 1948, 1950-51. WSP 1705: 1946-47(M), 1949-50(M), 1952(M), 1959.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	19	18	19	8.0	284	57	15	29	11	8.2	.44
2	3.1	19	17	17	7.0	224	123	16	79	6.6	5.8	.44
3	2.8	18	15	25	6.5	189	111	15	90	4.5	4.5	.54
4	2.6	20	17	1,850	120	145	92	12	69	3.7	4.8	.72
5	2.5	23	12	822	1,060	126	81	11	46	3.3	5.3	.65
6	2.5	21	10	262	433	188	84	90	33	3.1	5.3	1.4
7	2.3	21	10	160	242	455	94	475	24	3.3	4.3	1.6
8	2.5	18	9.3	100	152	294	85	1,340	22	2.6	3.7	4.5
9	3.7	17	9.3	70	110	228	81	431	24	2.6	3.5	4.1
10	4.8	21	8.9	55	90	294	67	227	19	2.6	3.7	2.3
11	9.3	22	8.9	50	80	433	58	159	15	2.8	6.0	1.9
12	7.9	24	9.6	48	314	337	54	145	20	2.8	7.2	1.6
13	8.6	23	10	48	727	262	55	115	18	2.6	6.9	1.4
14	44	28	10	94	363	210	53	86	21	2.3	4.8	1.3
15	88	40	9.6	97	258	329	50	68	43	2.3	3.9	1.3
16	42	58	65	72	160	333	46	55	144	2.0	3.3	1.2
17	24	44	319	60	789	223	44	44	51	2.5	2.8	1.0
18	17	36	174	50	973	177	41	36	27	8.2	2.3	.86
19	13	30	102	40	669	203	37	29	19	386	1.9	.79
20	13	220	69	33	1,630	279	34	25	17	84	1.7	2.8
21	23	255	83	29	632	220	35	20	250	27	1.9	2.9
22	33	112	424	25	2,410	188	36	15	65	15	1.7	3.1
23	27	73	383	22	1,660	156	31	12	30	9.3	1.5	3.3
24	21	45	192	20	506	124	29	36	18	7.5	1.3	2.6
25	17	34	116	21	345	107	26	388	18	6.6	1.1	2.3
26	14	29	70	24	362	99	22	148	19	7.5	.93	5.5
27	11	27	50	17	587	86	20	87	13	6.0	.79	14
28	11	24	35	14	409	80	22	58	9.3	6.0	.65	14
29	15	21	28	11	-----	74	19	44	6.6	14	.59	8.2
30	21	19	24	9.5	-----	57	17	33	6.3	20	.54	11
31	20	-----	21	8.5	-----	51	-----	25	-----	12	.49	-----
TOTAL	510.1	1,361	2,329.6	4,173.0	15,102.5	6,455	1,604	4,260	1,245.2	673.7	1,011.39	97.74
MEAN	16.5	45.4	75.1	135	539	208	53.5	137	41.5	21.7	3.27	3.26
MAX	88	255	424	1,850	2,410	455	123	1,340	250	386	8.2	14
MIN	2.3	17	8.9	8.5	6.5	51	17	11	6.3	2.0	.49	.44
CFSM	.14	.38	.63	1.13	4.49	1.73	.45	1.14	.35	.18	.03	.03
IN.	.16	.42	.72	1.29	4.68	2.00	.50	1.32	.39	.21	.03	.03

CAL YR 1970 TOTAL 42,399.40 MEAN 116 MAX 3,770 MIN 1.9 CFSM .97 IN 13.14
WTR YR 1971 TOTAL 37,913.23 MEAN 104 MAX 2,410 MIN .44 CFSM .87 IN 11.75

PEAK DISCHARGE (BASE, 2,000 CFS).--Jan. 4 (1600) 2,220 cfs (16.85 ft). Feb. 22 (2200) 3,440 cfs (18.35 ft).

03372300 Stephens Creek near Bloomington, Ind.

LOCATION.--Lat 39°10'11", long 86°25'07", In NE 1/4 sec. 4, T. 8 N., R. 1 E., Monroe County, on downstream side of right pier of bridge on State Highway 46, 0.2 mile downstream from Kerr Creek, 4.0 miles west of Belmont, and 6.1 miles east of Bloomington.

DRAINAGE AREA.--10.9 sq mi.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 550.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 504 cfs June 21 (gage height, 9.13 ft) from rating curve extended above 160 cfs on basis of slope-area measurement at gage height 8.37 ft; no flow Sept. 28-30.

Period of record: Maximum discharge, 504 cfs June 21, 1971 (gage height, 9.13 ft) from rating curve extended above 160 cfs on basis of slope-area measurement at gage height 8.37 ft; no flow Sept. 28-30, 1971.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.25	4.6	.81	1.3	.31	21	6.9	1.8	2.6	.80	.43	.04
2	.18	4.8	.66	1.1	.28	18	9.8	1.9	4.3	.53	.35	.04
3	.13	5.6	.56	15	.25	14	8.6	1.7	14	.42	.23	.11
4	.18	7.4	.24	193	5.0	12	8.0	1.6	6.7	.28	.59	.07
5	.13	7.6	.31	38	74	11	7.4	1.5	4.7	.29	.49	.04
6	.13	6.2	.19	16	35	27	8.3	14	3.3	.22	.25	.23
7	.10	5.0	.11	10	20	37	8.2	84	3.1	.15	.18	.08
8	.25	4.0	.08	7.2	14	29	7.4	71	2.9	.11	.12	.09
9	12	3.6	.07	5.8	11	22	6.8	29	2.0	.08	.12	.10
10	7.4	4.5	.06	5.0	9.4	28	6.0	18	1.4	.26	.11	.06
11	3.0	3.9	.07	4.4	8.6	27	5.6	13	1.1	.19	.57	.07
12	2.3	3.4	.62	4.0	50	25	5.4	10	1.6	.09	.22	.08
13	2.8	2.8	.88	6.1	52	20	5.3	8.2	1.3	.08	.12	.04
14	64	6.6	.71	9.9	37	18	5.6	6.4	2.8	.09	.09	.05
15	18	20	.59	7.8	22	29	5.0	5.2	2.7	.12	.09	.04
16	9.2	15	29	6.5	14	24	4.8	4.3	2.5	.33	.07	.04
17	5.7	12	31	5.8	96	19	4.6	3.6	1.4	.20	.10	.04
18	4.0	10	17	5.4	58	16	4.3	2.9	.90	2.1	.11	.01
19	3.0	9.0	11	4.9	88	16	3.9	2.3	.51	57	.09	.01
20	4.4	80	7.9	4.2	91	14	3.6	1.8	.42	6.4	.15	.11
21	5.0	15	15	3.6	49	13	3.9	1.5	84	3.2	.31	.04
22	4.2	10	42	3.2	242	12	3.9	1.2	14	1.8	.13	.04
23	3.7	6.4	24	2.9	70	10	3.5	.97	7.0	1.1	.10	.06
24	3.0	5.2	14	2.7	39	9.0	3.3	18	4.3	1.9	.09	.04
25	2.4	3.9	9.0	2.0	29	8.1	3.0	27	5.7	2.7	.08	.10
26	1.8	2.6	6.0	1.1	33	7.4	2.6	11	3.5	1.0	.08	1.3
27	1.6	2.1	4.5	.80	37	6.7	2.5	7.6	2.3	.54	.05	.06
28	1.5	1.6	3.0	.60	27	6.2	2.5	5.5	1.7	1.3	.06	0
29	9.8	1.3	2.3	.50	-----	5.7	2.2	4.3	1.2	1.6	.04	0
30	8.0	1.0	1.8	.43	-----	5.1	2.0	3.3	.94	.85	.02	0
31	5.9	-----	1.5	.36	-----	4.7	-----	2.5	-----	.66	.02	-----
TOTAL	184.05	265.1	224.96	369.59	1,211.94	514.9	154.9	365.07	184.87	86.39	5.46	2.99
MFAN	5.94	8.84	7.26	11.9	43.3	16.6	5.16	11.8	6.16	2.79	.18	.10
MAX	64	80	42	193	242	37	9.8	84	84	57	.59	1.3
MIN	.10	1.0	.06	.36	.25	4.7	2.0	.97	.42	.08	.02	0
CFSM	.55	.81	.67	1.09	3.97	1.52	.47	1.08	.57	.26	.02	.009
IN.	.63	.90	.77	1.26	4.14	1.76	.53	1.25	.63	.29	.02	.01

WTR YR 1971 TOTAL 3,570.12 MEAN 9.78 MAX 242 MIN 0 CFSM .90 IN 12.18

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-14	0330	6.60	221	02-22	0300	8.75	460
01-04	0145	9.11	494	05-07	1915	7.13	279
02-05	0515	6.03	162	06-21	0330	9.13	504
02-19	1830	6.74	236	07-19	0300	8.13	387

03372400 Monroe Lake near Harrodsburg, Ind.
(Formerly published as Monroe Reservoir near Harrodsburg, Ind.)

LOCATION (revised).--Lat 39°00'24", long 86°30'56", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.27, T.7 N., R.1 W., Monroe County, in discharge tower of reservoir on Salt Creek, 1.1 miles upstream from Clear Creek, 2.2 miles southeast of Harrodsburg, and 25.9 miles upstream from mouth.

DRAINAGE AREA.--432 sq mi.

PERIOD OF RECORD.--April 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 500.00 ft above mean sea level (levels by Corps of Engineers).

EXTREMES.--Current year: Maximum contents, 247,600 acre-ft Mar. 1 (elevation, 543.54 ft); minimum, 166,800 acre-ft Oct. 7 (elevation, 536.52 ft).

Period of record: Maximum contents, 318,200 acre-ft Feb. 10, 1969 (elevation, 548.62 ft); minimum, 149,500 acre-ft Nov. 7, 1966 (elevation, 534.77 ft).

REMARKS.--Reservoir is formed by earth and rock fill dam. Releases normally controlled by three gates, 3.75 ft wide and 12.0 ft high, in semi-elliptical concrete conduit through dam. Minimum design capacity is 22,300 acre-ft (elevation, 515 ft). Capacity at uncontrolled spillway elevation (556 ft) is 446,000 acre-ft. Reservoir is used for flood control and recreation. Reservoir put in operation on April 26, 1966.

COOPERATION.--Records furnished by Corps of Engineers.

Month-end elevation and contents, water year October 1970 to September 1971

Date	Elevation (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	536.72	168,800	-
Oct. 31.....	536.91	170,800	+2,000
Nov. 30.....	537.40	175,900	+5,100
Dec. 31.....	538.10	183,300	+7,400
Calendar year 1970.....	-	-	-900
Jan. 31.....	538.01	182,400	-900
Feb. 28.....	543.38	245,500	+63,100
Mar. 31.....	538.02	182,500	-63,000
Apr. 30.....	537.95	181,700	-800
May 31.....	538.10	183,300	+1,600
June 30.....	538.00	182,200	-1,100
July 31.....	538.08	183,100	+900
Aug. 31.....	537.52	177,100	-6,000
Sept. 30.....	537.21	173,900	-3,200
Water year 1971	-	-	+5,100

03372700 Clear Creek near Harrodsburg, Ind.

LOCATION.--Lat 39°02'03", long 86°34'01", in NE¼NW¼ sec.19, T.7 N., R.1 W., Monroe County, on left bank at downstream side of county road bridge, 1.9 miles northwest of Harrodsburg, 3.9 miles upstream from Little Clear Creek, and 5.1 miles upstream from mouth.

DRAINAGE AREA.--55.2 sq mi, of which 6.4 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.--September 1960 to September 1971 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 517.00 ft above mean sea level.

AVERAGE DISCHARGE.--11 years, 72.0 cfs (17.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,660 cfs July 19 (gage height, 10.39 ft); minimum daily, 9.0 cfs Sept. 2, 5, 15, 19. Period of record: Maximum discharge, 8,280 cfs May 24, 1968 (gage height, 14.80 ft); minimum daily, 5.4 cfs Nov. 27, 1964. Flood in June 1960 reached a stage of 16.47 ft, from floodmarks (discharge, 10,200 cfs on basis of contracted-opening measurement).

REMARKS.--Records good. Flow regulated by effluent from the sewage treatment plant of the city of Bloomington and possibly by pumpage from several rock quarries.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	51	35	30	22	133	58	24	26	21	17	11
2	18	57	34	28	22	114	67	26	40	17	15	9.0
3	17	56	32	60	28	101	50	23	83	16	16	10
4	15	59	30	1,070	510	87	43	23	39	14	26	11
5	14	51	29	280	556	79	38	24	31	17	22	9.0
6	15	46	27	157	159	159	48	52	27	16	17	25
7	16	43	25	109	102	181	48	134	52	14	16	55
8	21	37	26	80	80	145	42	130	62	13	14	30
9	113	36	26	70	66	124	41	64	35	13	13	20
10	83	51	25	60	59	163	36	46	28	17	15	16
11	36	39	27	55	54	163	35	39	28	18	20	13
12	32	38	45	50	239	149	34	37	66	13	15	11
13	47	37	33	59	203	127	37	32	36	13	13	10
14	335	46	27	81	122	111	41	30	73	13	13	9.5
15	109	65	27	62	93	159	34	28	138	12	12	9.0
16	68	53	175	52	80	124	34	26	90	28	11	9.5
17	52	50	201	50	462	104	32	26	47	21	11	10
18	44	47	126	44	250	95	30	27	35	77	12	10
19	36	43	96	42	350	101	28	27	30	754	12	9.0
20	58	273	72	40	394	93	28	26	25	123	13	20
21	52	141	99	39	238	79	30	25	143	57	52	30
22	43	101	213	36	1,330	72	28	25	48	38	19	20
23	39	75	165	34	405	67	27	23	34	30	15	16
24	37	62	114	32	235	62	27	94	28	35	15	14
25	33	53	93	30	183	58	25	162	44	38	15	15
26	29	49	74	29	191	56	24	56	29	23	19	72
27	29	44	65	27	211	52	25	41	22	20	15	22
28	33	39	55	25	163	50	27	34	19	38	14	19
29	135	36	50	24	-----	47	24	30	19	33	13	18
30	80	35	38	23	-----	45	23	27	19	21	12	17
31	62	-----	32	23	-----	42	-----	24	-----	20	14	-----
TOTAL	1,719	1,813	2,116	2,801	6,909	3,142	1,064	1,385	1,396	1,583	506	550.0
MEAN	55.5	60.4	68.3	90.4	247	101	35.5	44.7	46.5	51.1	16.3	18.3
MAX	335	273	213	1,070	1,330	191	67	162	143	754	52	72
MIN	14	35	25	23	22	42	23	23	19	12	11	9.0
CFSM	1.01	1.09	1.24	1.64	4.47	1.83	.64	.81	.84	.93	.30	.33
IN.	1.16	1.22	1.43	1.89	4.66	2.12	.72	.93	.94	1.07	.34	.37

CAL YR 1970 TOTAL 26,253.0 MEAN 71.9 MAX 1,860 MIN 11 CFSM 1.30 IN 17.69
WTR YR 1971 TOTAL 24,984.0 MEAN 68.4 MAX 1,330 MIN 9.0 CFSM 1.24 IN 16.84

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0345	8.89	2,510	02-22	0345	9.17	2,740
02-05	0115	8.36	2,090	07-19	0730	10.39	3,660

03373000 Salt Creek near Peerless, Ind.

LOCATION.--Lat 38°56'36", long 86°30'36", in SE 1/4 sec. 22, T. 6 N., R. 1 W., Lawrence County, on downstream side near center of county road bridge, 3,200 ft downstream from Little Salt Creek, 1.5 miles north of Peerless, 6.5 miles downstream from Monroe Reservoir, and 18.6 miles from mouth.

DRAINAGE AREA.--573 sq mi.

PERIOD OF RECORD.--February 1939 to September 1950, February 1957 to September 1971 (discontinued).

GAGE.--Nonrecording gage and concrete control. Datum of gage is 476.02 ft above mean sea level. Feb. 1-10, 1939, nonrecording gage, Feb. 11, 1939, to Sept. 30, 1950, water-stage recorder, and Feb. 15, 1957, to Oct. 16, 1968, nonrecording gage at site 200 ft downstream at same datum.

AVERAGE DISCHARGE.--25 years, 647 cfs (15.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,710 cfs Feb. 22 (gage height, 18.9 ft); minimum daily, 44 cfs Aug. 17, 29, 30. Period of record: Maximum discharge, 25,100 cfs May 10, 1961 (gage height, 35.33 ft, from graph based on gage readings); minimum daily, 0.8 cfs Aug. 16-18, 1940. Flood in January 1937 reached a stage of 34.3 ft. (Information by Corps of Engineers).

REMARKS.--Records poor. Stage-discharge relation affected at times by backwater from East Fork White River or return flow from overbank storage. Flow regulated by Monroe Reservoir. (See sta 03372400.)

REVISIONS.--WRD Ind, 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	68	191	100	200	90	1,670	236	92	445	79	87	48
2	68	150	100	200	70	2,030	280	92	440	76	85	50
3	63	120	100	705	130	2,670	322	92	423	74	80	50
4	64	110	100	2,390	557	2,500	384	91	369	73	77	51
5	67	110	100	2,180	597	2,550	515	91	331	71	74	51
6	68	110	90	2,000	1,450	2,540	619	89	308	70	65	51
7	63	110	90	1,500	1,370	2,710	661	216	257	67	61	66
8	62	100	90	1,800	1,040	2,610	538	469	192	66	55	71
9	71	100	90	1,700	1,010	2,620	301	1,040	125	62	57	68
10	121	100	90	1,600	1,220	2,640	254	1,260	87	58	54	62
11	171	101	90	1,500	1,340	2,550	182	1,270	91	54	51	55
12	240	115	70	1,060	1,360	2,660	167	1,280	94	54	51	52
13	615	124	90	730	2,030	2,680	147	1,270	86	54	49	52
14	620	124	96	582	1,890	2,640	249	1,240	87	52	49	50
15	340	136	106	464	1,800	2,670	287	842	100	51	47	50
16	102	120	224	540	1,740	2,540	284	787	150	50	46	49
17	170	120	486	540	1,770	2,560	275	587	200	66	44	49
18	137	120	640	540	1,910	2,370	263	391	300	366	45	50
19	123	120	666	530	2,110	2,260	257	360	400	510	47	50
20	116	215	951	250	2,860	2,310	250	251	500	502	53	62
21	116	219	442	167	3,430	2,440	239	131	499	494	52	65
22	114	216	413	150	3,570	2,270	201	90	445	486	50	58
23	142	205	604	140	2,530	1,920	121	51	370	477	47	54
24	146	196	703	130	1,500	1,770	97	119	278	454	47	54
25	136	150	792	130	1,070	622	93	735	219	390	47	110
26	126	110	645	120	700	384	92	544	158	355	47	130
27	110	110	413	110	500	321	92	514	109	334	47	130
28	125	110	280	110	500	263	91	485	94	315	45	121
29	222	110	240	120	-----	254	92	472	94	257	44	108
30	223	100	220	120	-----	246	92	459	92	142	44	99
31	242	-----	210	100	-----	246	-----	450	-----	97	46	-----
TOTAL	5,274	4,014	9,712	22,868	41,014	60,566	7,694	15,909	7,298	6,256	1,693	2,016
MEAN	173	134	313	738	1,465	1,954	257	513	243	202	54.6	67.2
MAX	629	219	951	2,390	3,570	2,710	661	1,280	500	510	87	130
MIN	62	100	86	100	70	246	91	89	81	50	44	48
CFS/4	.30	.23	.55	1.29	2.56	3.41	.45	.60	.42	.35	.10	.12
IN.	.34	.26	.63	1.48	2.66	3.73	.50	1.03	.47	.41	.11	.13

CHL YR 1970 TOTAL 209,578 MEAN 574 MAX 3,440 MIN 62 CFSM 1.70 IN 13.61
 AT YR 1971 TOTAL 194,321 MEAN 505 MAX 3,670 MIN 44 CFSM .98 IN 11.97

03373200 Indian Creek near Springville, Ind.

LOCATION.--Lat 38°57'01", long 86°40'30", in SE¼SW¼ sec.18, T.6 N., R.2 W., Lawrence County, on left bank at downstream side of bridge on State Highway 54, 0.2 mile downstream from Popcorn Creek, and 4 miles northwest of Springville.

DRAINAGE AREA.--60.7 sq mi.

PERIOD OF RECORD.--September 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 580.00 ft above mean sea level (unadjusted).

AVERAGE DISCHARGE.--10 years, 52.5 cfs (11.74 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,560 cfs Feb. 22 (gage height, 8.10 ft); minimum daily, 0.25 cfs Aug. 30, 31, Sept. 15, 18, 19.

Period of record: Maximum discharge, 6,450 cfs Mar. 9, 1964 (gage height, 12.95 ft); no flow at times some years. Flood in Spring 1950 or 1951 reached a stage of 18.4 ft, from information by local resident.

REMARKS.--Records good.

REVISIONS.--WRD Ind. 1968: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.85	14	17	19	5.6	73	22	7.2	11	4.8	5.0	.30
2	.75	14	16	18	5.2	60	47	9.0	14	3.4	4.0	.40
3	.55	19	15	65	5.0	52	37	8.7	23	2.5	3.6	.70
4	.45	16	14	926	255	44	29	7.5	16	2.0	5.2	.80
5	.35	14	13	143	628	40	26	7.8	11	2.5	5.4	.70
6	.35	12	12	76	112	85	29	159	9.0	2.8	4.2	1.3
7	.35	10	12	52	75	122	35	295	7.5	2.3	3.2	2.6
8	.85	9.2	12	41	54	84	31	219	9.3	1.7	2.6	3.2
9	4.2	8.8	12	35	43	66	28	81	9.0	1.6	2.3	1.6
10	21	11	11	30	36	105	23	51	6.3	1.7	2.0	.90
11	6.4	11	12	26	34	103	21	38	5.6	2.5	2.3	.80
12	4.4	10	15	24	318	90	20	31	12	2.5	2.0	.50
13	5.3	9.5	18	29	200	66	20	25	12	1.9	1.6	.40
14	70	10	16	76	97	56	21	24	71	1.5	1.6	.30
15	30	24	15	56	70	99	20	19	145	1.2	1.1	.25
16	15	21	80	39	55	79	18	16	64	1.0	1.0	.30
17	9.9	17	137	30	430	58	17	14	30	1.2	1.1	.30
18	8.4	15	71	24	185	50	16	12	20	29	.80	.25
19	7.0	13	55	19	329	52	15	10	15	75	.70	.25
20	9.9	155	43	15	318	50	14	9.0	11	17	.45	1.6
21	16	70	43	14	151	43	13	8.1	16	8.7	.45	1.0
22	13	50	155	13	1,210	38	12	7.2	11	6.1	.70	1.6
23	9.5	37	97	12	225	34	11	6.9	8.7	5.0	1.6	1.0
24	8.4	30	65	11	120	30	10	55	7.2	4.6	1.1	.45
25	7.3	25	51	12	93	27	9.6	129	6.1	4.2	.80	.45
26	6.7	24	41	11	108	26	9.0	44	5.2	3.6	.50	1.2
27	6.4	23	35	9.4	157	24	9.3	27	4.6	2.8	.40	1.2
28	8.4	21	30	8.2	93	23	9.3	20	4.0	39	.35	1.9
29	44	19	26	7.4	-----	22	8.4	16	3.4	29	.30	1.1
30	30	18	24	6.6	-----	20	7.5	13	3.0	9.6	.25	.70
31	19	-----	21	6.0	-----	18	-----	11	-----	6.6	.25	-----
TOTAL	364.70	730.5	1,184	1,853.6	5,410.8	1,729	587.1	1,379.4	570.9	277.3	56.85	28.05
MEAN	11.8	24.4	38.2	56.8	193	55.8	19.6	44.5	19.0	8.95	1.83	.94
MAX	70	155	155	926	1,210	122	47	295	145	75	5.4	3.2
MIN	.35	8.8	11	6.0	5.0	19	7.5	6.9	3.0	1.0	.25	.25
CFSM	.19	.40	.63	.99	3.18	.92	.32	.73	.31	.15	.03	.02
IN.	.22	.45	.73	1.14	3.32	1.06	.36	.85	.35	.17	.03	.02

CAL YR 1970 TOTAL 16,800.90 MEAN 46.0 MAX 2,460 MIN .35 CFSM .76 IN 10.30
WTR YR 1971 TOTAL 14,172.20 MEAN 38.8 MAX 1,210 MIN .25 CFSM .64 IN 8.69

PEAK DISCHARGE (BASE, 1,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0330	6.99	1,890	02-22	0500	8.10	2,560
02-05	0230	6.85	1,810				

WABASH RIVER BASIN

03373500 East Fork White River at Shoals, Ind.

LOCATION.--Lat 38°40'02", long 86°47'32", in sec.30, T.3 N., R.3 W., Martin County, in first pier from left bank of bridge on U.S. Highway 50 at Shoals, 400 ft upstream from Baltimore and Ohio Railroad bridge, 1 mile upstream from Beaver Creek, and at mile 107.6.

DRAINAGE AREA.--4,927 sq mi.

PERIOD OF RECORD.--June 1903 to July 1906, October 1908 to September 1916, June 1923 to current year. Monthly discharge only for some periods, published in WSP 1305. Published as East Branch White River at Shoals, 1903-6, 1908-16. Gage-height records collected at same site since May 1908 are contained in reports of the U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 442.25 ft above mean sea level. See WSP 1725 for history of changes prior to Oct. 26, 1932.

AVERAGE DISCHARGE.--57 years (1903-5, 1909-16, 1923-71), 5,286 cfs (14.57 inches per year).

EXTREMES.--Current year: Maximum discharge, 35,000 cfs Feb. 27 (gage height, 22.00 ft); minimum daily, 415 cfs Aug. 18. Period of record: Maximum discharge, 160,000 cfs Mar. 28, 1913 (gage height, 42.2 ft), from rating curve extended above 100,000 cfs; minimum daily, 64 cfs Oct. 6, 1935, as a result of filling Williams Reservoir.

REMARKS.--Records good. Flow partially regulated by Monroe Reservoir. (See sta 03372400.)

REVISIONS (WATER YEARS).--WSP 353: 1912. WSP 1335: 1903-6. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	583	901	1,120	2,550	1,500	29,900	3,350	1,550	2,720	1,770	2,020	709
2	575	860	1,070	2,350	1,300	23,600	3,330	1,530	2,590	1,710	1,770	683
3	559	840	1,040	2,280	1,150	19,700	3,440	1,520	2,590	1,860	1,490	658
4	543	840	1,000	4,840	1,590	16,400	3,730	1,460	2,550	1,730	1,130	641
5	535	830	978	8,650	5,860	13,100	4,180	1,450	2,460	1,590	3,180	632
6	528	830	934	8,320	10,000	10,200	4,070	1,670	2,380	1,460	3,800	919
7	505	820	923	9,220	9,460	9,520	3,760	3,590	2,240	1,330	3,990	1,210
8	498	810	890	9,340	10,500	9,700	3,560	6,660	2,010	1,110	3,230	1,190
9	575	810	880	7,880	11,700	10,000	3,380	7,400	1,860	772	2,220	989
10	599	810	890	6,290	12,700	10,500	3,160	7,130	1,710	989	1,530	870
11	632	800	880	5,310	11,800	10,600	2,970	7,400	1,700	1,000	989	923
12	599	810	870	4,820	8,630	10,300	2,700	7,220	1,890	967	1,070	1,120
13	599	820	860	4,300	10,400	10,400	2,660	6,420	2,120	945	1,000	1,000
14	790	820	860	4,280	10,900	10,400	2,440	5,520	2,020	989	1,000	1,100
15	1,160	830	850	5,640	10,900	10,100	2,380	4,860	2,090	1,350	1,250	912
16	1,160	870	945	6,450	11,400	10,200	2,440	4,240	3,590	1,670	1,100	870
17	967	978	1,680	6,740	11,800	10,600	2,440	3,760	4,780	1,320	551	870
18	956	1,020	2,890	6,210	13,500	11,000	2,400	3,330	5,520	1,250	415	810
19	989	1,050	3,210	5,040	13,600	10,600	2,330	3,000	4,930	2,120	666	781
20	1,000	1,210	3,210	3,880	15,300	9,400	2,200	2,810	3,730	3,650	709	781
21	989	2,290	2,930	3,210	17,500	8,580	2,120	2,660	2,740	4,560	830	820
22	967	2,850	3,180	2,950	21,400	8,410	1,990	2,550	2,720	4,670	745	830
23	956	3,040	5,260	2,830	26,700	8,030	1,880	2,470	3,520	4,240	727	956
24	923	2,870	8,390	2,550	28,400	7,460	1,800	2,310	3,610	2,910	709	1,280
25	870	2,350	8,320	2,400	29,900	5,970	1,790	3,100	3,290	2,100	700	1,280
26	830	1,880	7,950	2,280	32,700	5,000	1,760	3,840	2,810	1,850	1,020	1,170
27	800	1,590	7,220	2,130	34,700	4,490	1,710	3,310	2,350	1,700	475	1,000
28	790	1,420	5,970	1,880	34,200	4,130	1,680	3,460	2,010	1,620	434	1,360
29	810	1,260	4,390	1,770	-----	3,880	1,650	3,690	1,760	1,670	675	830
30	840	1,190	3,370	1,800	-----	3,670	1,610	3,440	1,650	1,850	790	1,150
31	534	-----	2,850	1,700	-----	3,460	-----	3,020	-----	2,020	754	-----
TOTAL	24,061	38,299	85,810	139,930	409,450	315,300	78,910	116,320	81,940	58,772	40,969	28,344
MEAN	776	1,277	2,768	4,514	14,620	10,300	2,630	3,752	2,731	1,896	1,322	945
MAX	1,160	3,040	8,390	5,340	34,700	29,900	4,180	7,400	5,520	4,670	3,990	1,360
MIN	498	800	850	1,700	1,150	3,460	1,610	1,450	1,650	772	415	632
CFSM	.16	.26	.56	.92	2.97	2.09	.53	.76	.55	.38	.27	.19
IN.	.18	.29	.65	1.06	3.05	2.41	.60	.88	.62	.44	.31	.21

CAL YR 1970 TOTAL 1,561,973 MEAN 4,275 MAX 22,200 MIN 498 CFSM .87 IN 11.79
WTR YR 1971 TOTAL 1,422,145 MEAN 3,896 MAX 34,700 MIN 415 CFSM .79 IN 10.74

PEAK DISCHARGE (BASE, 20,000 CFS).--Feb. 27 (2330) 35,000 cfs (22.00 ft).

03373700 Lost River near West Baden Springs, Ind.

LOCATION.--Lat 38°35'10", long 86°38'03", in SE¼ sec.21, T.2 N., R.2 W., Orange County, on left bank 20 ft downstream from bridge on U.S. Highway 150, 1.7 miles northwest of West Baden Springs, and 3.8 miles downstream from Lick Creek.

DRAINAGE AREA.--287 sq mi.

PERIOD OF RECORD.--December 1964 to current year. Prior to October 1965, published as Lost River near West Baden.

GAGE.--Water-stage recorder. Datum of gage is 457.92 ft above mean sea level (levels by Indiana Department of Natural Resources).

AVERAGE DISCHARGE.--6 years, 292 cfs (13.82 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,070 cfs Feb. 23 (gage height, 21.09 ft); minimum daily, 15 cfs Oct. 8.
Period of record: Maximum discharge, 5,210 cfs Jan. 30, 1969 (gage height, 23.61 ft); minimum daily, 7.5 cfs Oct. 8, 1966.
Flood in March 1964 reached a stage of 28.1 ft, from floodmarks.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	60	76	152	103	626	163	77	126	39	28	23
2	17	56	73	134	90	542	313	80	129	37	25	25
3	17	58	67	123	89	482	339	82	116	34	24	26
4	16	58	66	660	206	435	270	78	94	32	405	28
5	16	56	65	970	1,290	395	221	68	77	35	767	30
6	16	53	64	592	1,240	399	212	163	66	37	344	56
7	16	49	61	428	768	548	295	783	58	33	165	100
8	15	45	58	338	538	521	289	948	158	30	115	74
9	17	45	56	282	428	442	251	707	103	28	85	60
10	19	56	55	247	357	431	213	449	66	30	78	50
11	21	73	54	218	310	569	186	335	55	40	114	68
12	26	74	56	202	608	556	173	321	61	38	79	80
13	60	70	59	286	1,520	489	165	284	67	35	61	62
14	187	69	56	1,290	1,220	430	176	236	186	30	51	52
15	232	82	53	1,380	815	565	181	194	223	28	46	46
16	115	100	107	928	611	769	169	168	304	26	42	43
17	66	97	361	636	777	631	156	147	185	25	42	38
18	48	89	318	509	1,150	513	144	128	121	29	39	31
19	41	80	221	413	1,050	470	133	116	93	111	37	28
20	52	530	155	336	1,160	458	123	118	76	140	34	48
21	75	587	139	294	1,040	420	118	103	68	55	32	74
22	75	390	607	259	2,140	375	117	91	62	35	30	64
23	61	256	1,290	234	3,000	332	110	85	59	29	29	46
24	50	183	1,550	210	2,540	297	106	115	54	29	27	35
25	43	143	993	190	1,790	270	97	1,030	50	35	25	31
26	38	123	557	176	1,240	249	90	783	47	33	35	36
27	34	112	401	156	952	230	87	453	44	33	33	37
28	35	100	315	138	768	216	92	347	41	32	29	31
29	49	90	248	130	-----	200	91	257	40	34	26	28
30	65	83	204	129	-----	180	82	194	39	32	24	26
31	68	-----	174	120	-----	165	-----	152	-----	30	22	-----
TOTAL	1,607	3,867	8,558	12,060	27,802	13,205	5,162	9,092	2,868	1,214	2,897	1,376
MEAN	51.8	129	276	389	993	426	172	293	95.6	39.2	93.5	45.9
MAX	232	587	1,550	1,380	3,000	769	339	1,030	304	140	767	100
MIN	15	45	53	120	89	165	82	68	39	25	22	23
CFSM	.18	.45	.96	1.36	3.45	1.48	.60	1.02	.33	.14	.33	.16
IN.	.21	.50	1.11	1.56	3.60	1.71	.67	1.18	.37	.16	.38	.18

CAL YR 1970 TOTAL 116,996 MEAN 321 MAX 4,700 MIN 15 CFSM 1.12 IN 15.16
WTR YR 1971 TOTAL 89,708 MEAN 246 MAX 3,000 MIN 15 CFSM .86 IN 11.63

PEAK DISCHARGE (BASE, 2,000 CFS).--Feb. 23 (0530) 3,070 cfs (21.09 ft).

03374000 White River at Petersburg, Ind.

LOCATION.--Lat 38°30'39", long 87°17'22", in SE¼SW¼ sec.15, T.1 N., R.8 W., Pike County, on left bank 300 ft downstream from bridge on State Highway 61, 0.4 mile upstream from Prides Creek, 1 mile north of Petersburg, and at mile 47.7.

DRAINAGE AREA.--11,125 sq mi.

PERIOD OF RECORD.--October 1927 to current year. Monthly discharge only for October 1927, published in WSP 1305. Published as "at Hazeton" October 1927 to September 1938. Records published for both sites October 1937 to September 1938. Gage-height records collected at present site and datum since January 1935 are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft above mean sea level. See WSP 1725 for history of changes prior to Apr. 1, 1941.

AVERAGE DISCHARGE.--44 years, 11,220 cfs (13.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 64,300 cfs Feb. 28 (gage height, 23.13 ft); minimum daily, 1,410 cfs Oct. 8. Period of record: Maximum discharge, 183,000 cfs Jan. 22, 1937 (gage height, 28.3 ft, present datum, 31.58 ft site and datum then in use); minimum daily, 573 cfs Oct. 1, 1941. Flood in March 1913, reached a stage of 29.5 ft (present site and datum), from floodmarks by Corps of Engineers (discharge, 235,000 cfs).

REMARKS.--Records good. Natural flow of stream affected by reservoirs. Records of water temperatures for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1305: 1930(M). WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,880	2,860	3,300	5,450	3,280	61,100	9,290	4,120	7,330	4,180	4,640	1,920
2	2,150	2,830	3,180	5,020	2,930	56,900	8,130	4,120	6,700	4,060	4,550	1,900
3	2,230	2,680	3,100	4,780	2,930	52,100	8,080	4,000	6,350	3,980	4,250	2,040
4	2,090	2,680	3,000	10,200	3,530	46,600	8,270	3,860	8,320	4,040	5,030	1,970
5	1,770	2,740	2,900	15,500	9,360	40,100	8,490	3,740	10,800	3,970	5,330	1,810
6	1,540	2,760	2,880	19,100	16,400	32,500	8,710	4,030	9,410	3,740	5,240	1,940
7	1,470	2,750	2,850	19,000	23,100	35,100	8,630	5,740	7,710	3,520	5,740	2,990
8	1,410	2,750	2,810	16,900	24,800	23,700	8,240	9,980	7,010	3,320	5,570	3,110
9	1,520	2,720	2,690	15,000	26,600	22,900	7,890	13,200	7,070	3,280	4,930	2,640
10	1,840	2,680	2,610	13,200	27,500	22,900	7,520	14,500	9,350	3,320	4,040	2,570
11	1,870	2,600	2,580	11,000	25,400	23,200	7,120	14,400	9,860	3,380	3,420	2,440
12	1,910	2,580	2,600	9,250	22,400	23,100	6,740	14,200	8,830	3,100	2,880	2,440
13	2,160	2,600	2,600	8,720	22,200	22,600	6,500	13,600	8,290	3,100	2,810	2,640
14	2,710	2,620	2,620	11,400	22,800	22,200	6,280	13,200	8,270	3,520	2,920	2,640
15	3,280	2,640	2,670	11,100	23,000	22,300	5,990	13,100	9,280	3,560	2,860	2,530
16	3,720	2,640	2,950	11,300	21,300	22,500	5,900	11,600	10,600	3,480	2,900	2,360
17	3,660	2,680	4,100	11,600	22,500	23,100	5,950	9,840	10,700	3,600	2,810	2,180
18	3,300	2,740	5,150	11,000	25,400	23,900	5,860	8,540	10,600	3,380	2,530	2,080
19	3,040	2,750	6,400	9,970	27,700	24,000	5,710	7,600	10,600	3,530	2,060	1,980
20	3,000	3,760	6,550	8,260	32,600	22,800	5,530	6,930	9,620	4,450	2,050	2,020
21	2,930	4,820	6,230	6,740	35,400	19,500	5,380	6,470	7,890	6,200	2,130	2,040
22	2,820	6,350	6,960	5,900	41,500	17,800	5,230	6,170	6,550	7,230	2,340	2,010
23	2,740	6,670	9,570	5,540	47,400	16,800	5,050	5,890	7,020	7,070	2,300	2,250
24	2,680	6,250	12,700	5,300	51,200	16,000	4,850	5,870	7,520	6,590	2,160	2,610
25	2,550	5,680	13,700	4,970	56,500	15,000	4,700	9,370	7,200	5,660	2,060	2,760
26	2,430	5,050	13,300	4,900	60,400	13,400	4,600	9,620	6,590	4,480	2,050	2,960
27	2,370	4,460	12,100	4,550	63,300	11,900	4,480	10,700	5,930	4,450	2,200	2,780
28	2,260	4,040	10,600	4,280	63,500	10,800	4,400	10,800	5,500	4,970	2,020	2,650
29	2,470	3,720	9,070	3,950	-----	9,980	4,250	10,100	4,990	4,970	1,690	2,710
30	2,740	3,490	7,420	3,880	-----	9,300	4,150	9,480	4,510	4,630	1,760	2,710
31	2,850	-----	6,130	3,820	-----	8,710	-----	8,300	-----	4,370	1,920	-----
TOTAL	75,320	105,590	175,320	291,580	804,900	772,790	190,920	272,070	240,100	133,130	99,190	71,610
MEAN	2,430	3,520	5,655	9,083	25,750	24,930	6,364	8,776	8,003	4,295	3,200	2,397
MAX	3,720	6,670	13,700	19,100	63,500	61,100	8,710	14,500	10,800	7,230	5,740	3,110
MIN	1,410	2,580	2,580	3,820	2,900	8,710	4,150	3,740	4,510	3,100	1,690	1,810
CFSM	.22	.32	.51	.82	2.58	2.24	.57	.79	.72	.39	.29	.21
IN.	.25	.35	.59	.94	2.69	2.58	.64	.91	.87	.45	.33	.24

CAL YR 1970 TOTAL 3,528,480 MEAN 9,667 MAX 51,200 MIN 1,410 CFSM .87 IN 11.80
WTR YR 1971 TOTAL 3,222,520 MEAN 8,829 MAX 63,500 MIN 1,410 CFSM .79 IN 10.78

03374455 Patoka River near Hardinsburg, Ind.

LOCATION.--Lat 38°26'41", long 86°23'14", In NW¼SE¼ sec.10, T.1 S., R.1 E., Orange County, on downstream edge of center pier of county road bridge, 0.2 mile upstream from left-bank tributary, 0.7 mile northeast of Valeene, and 6.0 miles southwest of Hardinsburg.

DRAINAGE AREA.--12.8 sq mi.

PERIOD OF RECORD.--October 1968 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 606.89 ft above sea level.

EXTREMES.--Current year: Maximum discharge, 1,100 cfs Feb. 22 (gage height, 6.05 ft); no flow Oct. 4-7.

Period of record: Maximum discharge, 1,410 cfs Apr. 27, 1970 (gage height, 7.22 ft); no flow Oct. 4-7, 1970.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	4.2	4.2	6.0	4.5	29	15	5.7	5.4	.80	.80	.08
2	.11	3.9	3.2	5.4	4.0	24	67	8.8	5.1	.68	.68	.16
3	.05	3.9	3.5	6.4	2.7	20	33	9.7	4.5	.58	.68	.16
4	C	3.9	3.0	142	37	17	23	8.1	3.7	.51	26	.11
5	0	3.5	2.8	56	237	17	14	8.1	3.5	1.0	11	.08
6	0	3.0	2.4	28	69	23	27	235	3.2	1.0	4.8	.58
7	0	2.8	2.2	18	40	39	45	231	3.0	.68	3.0	.92
8	.03	2.4	2.2	13	30	28	31	322	2.8	.58	2.2	.51
9	1.2	2.6	2.2	11	20	22	24	102	2.6	.51	1.9	.23
10	1.2	6.0	2.1	9.8	13	62	18	51	2.4	6.4	1.6	.16
11	.80	6.4	2.1	7.7	14	62	16	37	2.2	6.0	1.3	7.4
12	1.5	5.4	2.4	7.4	164	42	14	31	3.0	2.2	1.2	3.2
13	7.0	4.8	2.2	69	133	31	14	25	2.8	1.6	.92	1.5
14	18	4.8	2.1	151	61	25	21	18	12	1.3	.80	.92
15	6.7	8.8	1.9	64	40	111	18	14	5.4	1.0	.68	.68
16	3.7	8.1	19	35	30	64	16	12	4.5	.92	.58	.68
17	2.6	6.7	50	27	110	38	14	9.7	3.2	.80	.51	.68
18	2.1	5.7	23	19	82	29	12	8.1	2.6	3.9	.51	.44
19	1.9	5.1	16	14	66	33	11	7.7	2.1	3.5	.44	.37
20	3.2	196	11	10	90	33	9.7	6.7	1.9	1.6	.44	2.4
21	6.0	43	41	9.3	55	29	9.2	5.7	1.9	1.2	.37	2.2
22	4.5	23	169	8.3	495	24	9.3	5.1	1.8	1.0	.37	1.2
23	3.2	14	83	8.4	119	19	8.8	4.8	1.5	1.0	.37	.80
24	2.4	5.3	44	7.7	62	16	8.1	6.4	1.3	1.6	.30	.58
25	2.4	7.4	26	7.7	42	14	7.0	37	1.2	1.6	.30	.58
26	2.1	6.7	18	7.7	49	13	6.4	14	1.0	1.2	.58	1.0
27	1.9	6.0	14	6.3	58	12	6.7	11	1.0	.80	.37	.68
28	1.8	5.1	10	5.6	37	12	7.7	9.7	.92	.80	.23	.58
29	7.0	4.8	8.4	4.9	-----	10	6.7	7.7	.80	1.5	.11	.44
30	9.1	4.2	7.0	5.0	-----	8.8	6.0	6.4	.80	1.2	.08	.44
31	5.4	-----	6.7	4.9	-----	8.4	-----	5.4	-----	1.0	.08	-----
TOTAL	65.45	411.5	580.6	775.0	2,166.2	915.2	522.7	1,264.8	88.12	48.46	63.20	29.76
MEAN	3.08	13.7	18.9	25.0	77.4	29.5	17.4	40.8	2.94	1.56	2.04	.55
MAX	18	166	169	151	495	111	67	323	12	6.4	26	7.4
MIN	C	2.4	1.9	4.9	3.7	9.4	6.0	4.8	.80	.51	.68	.08
CFSM	.24	1.07	1.48	1.55	6.05	2.30	1.36	3.19	.23	.12	.16	.08
IN.	1.28	1.20	1.70	2.25	6.30	2.66	1.52	3.68	.26	.14	.18	.09

CAL YR 1970 TOTAL 8,938.72 MEAN 24.5 MAX 504 MIN C CFSM 1.61 IN 25.98
WTR YR 1971 TOTAL 6,966.99 MEAN 19.1 MAX 495 MIN 0 CFSM 1.49 IN 20.25

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	0245	4.69	637	02-22	0345	6.05	1,100
12-22	0545	3.13	251	05-06	1330	5.25	818
02-05	0200	4.34	540	05-08	0545	5.33	845
02-12	1830	3.54	340				

WABASH RIVER BASIN

03374500 Patoka River near Ellsworth, Ind.

LOCATION.--Lat 38°26'29", long 86°43'31", in SW¹/₄SE¹/₄ sec.10, T.1 S., R.3 W., Dubois County, on right bank 200 ft upstream from county road bridge, 1.0 mile northwest of Ellsworth, 2.9 miles upstream from Dillon Creek, and 4 miles east of Dubois.

DRAINAGE AREA.--171 sq mi.

PERIOD OF RECORD.--June 1961 to current year.

GAGE.--Water-stage recorder. Datum of gage is 477.00 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1961, nonrecording gage on downstream side of bridge, 200 ft downstream at same datum.

AVERAGE DISCHARGE.--10 years, 193 cfs (15.33 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,000 cfs Feb. 24 (gage height, 12.96 ft); minimum daily, 2.5 cfs Aug. 31, Sept. 2.
Period of record: Maximum discharge, 14,700 cfs Mar. 10, 1964 (gage height, 20.02 ft); no flow Oct. 30, 1964.
Flood in March 1913 reached a stage of 19.1 ft according to information by local resident (discharge, 12,300 cfs).

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.8	66	60	84	56	309	90	110	52	10	17	3.5
2	5.5	54	55	75	52	236	291	110	55	10	13	2.5
3	5.0	54	51	79	47	200	380	130	55	9.6	11	4.2
4	4.4	54	46	741	157	181	242	128	49	9.1	145	4.5
5	4.0	52	42	920	1,120	164	183	108	42	12	475	3.8
6	3.7	46	38	534	1,130	166	181	231	37	19	178	72
7	3.5	41	34	226	776	252	340	1,120	32	16	66	96
8	4.0	36	31	157	354	278	344	1,320	66	13	38	51
9	5.8	32	30	140	200	223	244	1,470	38	14	26	23
10	7.4	54	30	115	150	286	190	1,440	31	46	20	15
11	10	84	30	102	160	570	159	1,110	27	68	17	23
12	11	84	31	98	629	503	140	529	26	44	13	26
13	43	73	34	242	1,320	332	128	312	30	45	11	19
14	436	62	34	1,170	1,000	249	152	210	52	92	9.6	13
15	278	72	33	1,120	600	624	162	152	450	45	9.1	13
16	115	79	152	672	400	819	154	121	400	22	7.6	11
17	63	77	700	312	310	539	133	100	135	16	7.1	12
18	39	70	554	221	1,100	309	117	84	77	13	6.1	11
19	28	62	283	164	700	278	104	72	49	11	5.7	7.6
20	51	925	183	130	900	299	94	65	36	16	5.7	52
21	98	1,130	307	113	600	270	88	58	28	17	6.6	113
22	81	810	1,020	104	900	234	96	52	24	16	5.7	51
23	65	273	1,160	104	1,500	198	117	46	21	12	4.9	28
24	51	159	918	100	1,750	166	106	70	19	12	4.2	20
25	39	115	420	96	1,500	147	88	584	16	16	4.2	15
26	31	98	231	56	662	138	77	548	15	16	6.1	18
27	24	90	174	79	556	130	75	171	13	15	6.6	34
28	22	81	135	68	460	121	234	113	11	12	5.3	31
29	48	72	110	60	-----	113	205	90	11	38	4.2	21
30	73	65	94	60	-----	102	145	73	10	31	2.8	14
31	77	-----	92	60	-----	92	-----	60	-----	20	2.5	-----
TOTAL	1,732.1	4,970	7,112	8,242	19,089	8,528	5,059	10,787	1,907	735.7	1,134.0	808.1
MEAN	55.9	166	229	266	682	275	169	348	63.6	23.7	36.6	26.9
MAX	436	1,130	1,160	1,170	1,750	819	380	1,470	450	92	475	113
MIN	3.5	32	30	60	47	92	75	46	10	9.1	2.5	2.5
CFSM	.33	.97	1.34	1.56	3.99	1.61	.99	2.04	.37	.14	.21	.16
IN.	.38	1.08	1.55	1.79	4.15	1.86	1.10	2.35	.41	.16	.25	.18

CAL YR 1970 TOTAL 93,938.3 MEAN 257 MAX 3,050 MIN 2.7 CFSM 1.50 IN 20.44
WTR YR 1971 TOTAL 70,103.9 MEAN 192 MAX 1,750 MIN 2.5 CFSM 1.12 IN 15.25

PEAK DISCHARGE (BASE, 1,200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	2015	10.41	1,210	02-13	0900	11.33	1,340
01-14	1415	10.49	1,220	02-24	Unknown	12.96	2,000
02-05	1500	10.40	1,210	05-09	2115	11.97	1,510

03375200 Beaver Creek Reservoir near Jasper, Ind.

LOCATION.--Lat 38°24'10", long 86°50'30", in SE¼NW¼ sec.27, T.1 S., R.4 W., Dubois County, in intake tower of reservoir on Beaver Creek, 2.5 miles above mouth, and 5.2 miles east of Jasper.

DRAINAGE AREA.--3.87 sq mi.

PERIOD OF RECORD.--October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 471.00 ft above mean sea level.

EXTREMES.--Current year: Maximum contents, 2,853 acre-ft Feb. 22 (gage height, 29.42 ft); minimum contents, 2,443 acre-ft Oct. 6 (gage height, 27.36 ft).

Period of record: Maximum contents, 3,337 acre-ft May 8, 1961 (gage height, 31.67 ft); minimum contents, 1,388 acre-ft Dec. 31, 1963 (gage height, 21.22 ft).

REMARKS.--Reservoir is formed by earth and rock fill dam. Releases normally controlled by 18-inch sluice gate into 18-inch concrete conduit through dam. Capacity at uncontrolled spillway elevation (28.1 ft) is 2,588 acre-ft. Reservoir is used for low-flow augmentation and recreation. Reservoir was put in operation on October 11, 1955.

COOPERATION.--Capacity tables furnished by Indiana Department of Natural Resources.

Month-end gage-height and contents, water year October 1970 to September 1971

Date	Gage-height (feet)	Contents (acre-feet)	Change in contents (acre-feet)
Sept. 30.....	27.72	2,514	-
Oct. 31.....	28.11	2,590	+76
Nov. 30.....	28.70	2,707	+117
Dec. 31.....	28.37	2,641	-66
Calendar year 1970.....	-	-	+852
Jan. 31.....	28.33	2,634	-7
Feb. 28.....	28.57	2,681	+47
Mar. 31.....	28.35	2,638	-43
Apr. 30.....	28.37	2,640	+2
May 31.....	28.38	2,643	+3
June 30.....	28.19	2,606	-37
July 31.....	28.17	2,602	-4
Aug. 31.....	28.17	2,602	0
Sept. 30.....	28.29	2,626	+24
Water year 1971			+112

03375500 Patoka River at Jasper, Ind.

LOCATION.--Lat 38°24'49", long 86°52'36", in NW¼SE¼ sec.20, T.1 S., R.4 W., Dubois County, on left bank 0.3 mile upstream from unnamed outlet of Jasper Lake, 1.0 mile downstream from Coon Seltz Bridge, 1.2 miles downstream from Beaver Creek, and 3.3 miles northeast of Jasper.

DRAINAGE AREA.--262 sq mi.

PERIOD OF RECORD.--November 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 446.19 ft above mean sea level. Nonrecording gage at bridge 5.6 miles downstream (used for high-water periods when flow exceeds 1,500 cfs) at datum 0.34 ft lower. Prior to Sept. 18, 1956, nonrecording gage at bridge 5.6 miles downstream at datum 0.34 ft lower.

AVERAGE DISCHARGE.--23 years (1948 to current year), 346 cfs (17.93 inches per year).

EXTREMES.--Current year: Maximum discharge observed, 2,530 cfs Feb. 27 (gage height, 9.29 ft at downstream gage); maximum gage height at upstream gage, about 14.8 ft Feb. 25; minimum daily discharge, 0.60 cfs Oct. 7.

Period of record: Maximum discharge, 14,100 cfs Mar. 11, 1964 (gage height, 15.17 ft at downstream gage); maximum gage height at upstream gage, 21.20 ft Mar. 11, 1964, from floodmark; no flow at times during 1948, 1952-56, 1963-65.

Flood in March 1913 reached a stage of 15.9 ft (at downstream site) from floodmark, furnished by local residents (discharge, 16,000 cfs).

REMARKS.--Records good. Flow partially regulated by Beaver Creek Reservoir. (See sta 03375200).

REVISIONS (WATER YEARS).--WSP 1909: 1958, WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.6	102	85	133	84	951	119	170	94	12	30	19
2	12	92	78	120	76	531	206	137	101	11	23	20
3	3.2	79	72	120	70	376	418	141	95	9.3	19	9.3
4	.70	72	66	585	161	317	432	155	84	7.7	88	8.6
5	8.3	71	60	980	866	277	322	151	72	10	377	12
6	2.7	68	56	1,020	1,130	269	265	144	60	13	391	10
7	.60	63	51	662	1,270	383	383	589	50	19	229	139
8	.65	56	48	325	1,250	436	480	963	147	21	107	165
9	5.6	52	46	212	1,050	405	439	1,070	208	20	64	91
10	9.7	53	44	190	474	377	342	1,180	102	53	44	51
11	9.0	66	44	160	305	563	269	1,310	63	137	31	36
12	5.3	104	45	148	556	672	221	1,430	62	116	23	39
13	4.6	111	46	261	1,070	574	192	1,330	57	68	18	50
14	118	100	46	556	1,310	444	193	693	48	104	14	41
15	383	96	46	1,190	1,400	521	221	335	92	121	10	29
16	292	99	73	1,330	1,500	888	224	232	584	74	8.3	23
17	157	110	409	1,320	1,510	918	203	174	477	40	6.4	19
18	82	107	709	776	1,390	645	174	136	209	26	4.8	17
19	55	99	563	362	1,310	451	149	109	107	20	4.0	19
20	56	346	363	231	1,330	433	130	91	70	18	3.2	23
21	85	936	302	206	1,340	421	116	77	53	15	2.8	56
22	133	1,060	754	173	1,580	382	121	68	42	16	2.2	148
23	111	1,030	1,100	156	1,680	334	136	61	35	18	1.9	92
24	84	510	1,230	147	1,790	283	145	86	30	16	2.0	57
25	69	250	1,330	140	2,150	237	129	617	26	13	15	41
26	55	173	1,040	137	2,460	209	106	743	23	11	72	36
27	46	143	461	130	2,470	191	93	528	20	15	24	32
28	39	126	280	110	1,430	178	120	317	17	16	12	46
29	58	110	208	90	-----	162	273	208	15	15	25	56
30	77	95	159	90	-----	146	243	150	12	21	6.4	46
31	105	-----	145	90	-----	128	-----	116	-----	44	5.5	-----
TOTAL	2,072.95	6,379	9,959	12,590	33,084	13,102	6,864	13,511	3,059	1,100.0	1,663.5	1,430.9
MEAN	66.9	213	321	406	1,182	423	229	436	102	35.5	53.7	47.7
MAX	383	1,060	1,330	1,330	2,470	951	480	1,430	584	137	391	165
MIN	.60	52	44	90	70	128	93	61	12	7.7	1.9	8.6
CFSM	.26	.81	1.23	1.55	4.51	1.61	.87	1.66	.39	.14	.21	.18
IN.	.29	.91	1.41	1.79	4.70	1.86	.97	1.92	.43	.16	.24	.20
CAL YR 1970	TOTAL	132,753.15	MEAN	364	MAX	3,530	MIN	.60	CFSM	1.39	IN	18.88
WTR YR 1971	TOTAL	104,815.35	MEAN	237	MAX	2,470	MIN	.60	CFSM	1.10	IN	14.88

03375800 Hall Creek near St. Anthony, Ind.

LOCATION.--Lat 38°21'45", long 86°49'43", in NW¼ sec.11, T.2 S., R. 4 W., Dubois County, on downstream side of right pier of bridge on County Road 125 South, and 3.3 miles north of St. Anthony.

DRAINAGE AREA.--21.8 sq mi.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Altitude of the gage is 460 ft (from river-profile survey).

EXTREMES.--Current year: Maximum discharge, 534 cfs Feb.22 (gage height, 11.07 ft); minimum daily, 0.24 cfs Oct. 8, Aug. 31.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.48	7.2	10	4.3	3.0	25	13	4.1	6.2	1.4	1.5	.34
2	.48	8.6	7.0	4.2	2.8	22	23	5.6	6.9	1.3	1.4	.34
3	.45	8.7	5.6	11	2.8	20	14	4.0	4.3	1.2	1.3	.57
4	.40	7.7	4.5	205	150	18	11	3.3	3.8	1.2	.53	.59
5	.42	6.2	3.7	40	159	17	8.9	3.3	3.2	1.5	11	.37
6	.42	5.0	2.9	22	43	21	20	41	2.9	1.7	5.3	40
7	.32	4.1	2.1	14	25	23	22	122	2.5	1.2	3.7	26
8	.24	3.4	2.4	5.0	18	20	16	60	29	1.1	2.6	5.9
9	7.0	6.7	7.2	7.6	14	17	13	29	5.6	30	2.1	3.1
10	2.4	25	2.3	7.0	13	45	9.4	21	4.0	13	1.8	2.0
11	.83	13	2.9	6.6	12	32	8.4	21	3.3	7.7	1.5	6.9
12	6.3	10	6.3	8.9	267	25	7.7	19	11	2.0	1.3	3.5
13	21	7.9	5.7	151	150	22	7.7	16	5.3	1.7	1.2	2.1
14	157	9.8	4.1	176	57	20	11	12	3.7	3.0	1.9	1.6
15	26	19	3.8	46	32	156	8.6	10	16	1.5	1.1	1.4
16	12	12	66	24	31	54	7.4	8.2	9.6	.93	1.1	1.7
17	7.2	11	62	19	151	30	6.3	6.7	4.4	.72	1.0	1.6
18	5.0	8.4	27	14	56	25	5.4	5.6	3.2	.59	.57	1.2
19	3.8	7.0	20	11	51	32	4.5	5.0	2.7	.53	.57	1.2
20	46	322	15	9.4	85	28	4.1	4.7	2.2	.48	.57	25
21	23	80	115	8.0	53	23	3.8	3.9	2.0	.40	.53	7.5
22	14	53	222	7.2	394	20	3.2	3.5	1.9	.37	.57	4.1
23	9.4	34	63	6.4	55	17	3.0	3.3	1.7	.37	.57	2.9
24	7.2	23	28	5.8	45	15	2.8	19	1.6	.83	.90	2.2
25	5.7	20	17	5.4	36	14	2.4	34	1.5	.79	6.5	2.2
26	4.7	20	10	4.9	58	14	2.2	7.9	1.5	.53	33	7.0
27	4.3	18	7.0	4.5	51	12	16	8.2	1.4	.50	1.4	4.5
28	5.9	15	5.6	4.0	29	12	20	6.5	1.4	15	.79	2.6
29	37	13	5.2	3.7	-----	5.6	7.7	5.3	1.3	7.0	.53	2.0
30	16	12	4.9	3.4	-----	7.9	5.4	4.5	1.3	2.1	.34	1.7
31	10	-----	4.6	3.2	-----	7.2	-----	3.9	-----	2.0	.24	-----
TOTAL	434.54	790.7	742.8	846.5	2,167.6	803.7	287.9	501.5	145.4	102.64	182.38	162.11
MEAN	14.0	26.4	24.0	27.3	77.4	25.9	9.60	16.2	4.85	3.31	5.88	5.40
MAX	157	322	222	205	394	156	23	122	29	30	53	40
MIN	.24	3.4	2.1	3.2	2.8	7.2	2.2	3.3	1.3	.37	.24	.34
CFSM	.64	1.21	1.10	1.25	3.55	1.15	.44	.74	.22	.15	.27	.25
IN.	.74	1.35	1.27	1.44	3.70	1.37	.49	.66	.25	.18	.31	.28

WTR YR 1971 TOTAL 7,168.17 MEAN 19.6 MAX 354 MIN .24 CFSM .90 IN 12.23

PEAK DISCHARGE (BASE, 400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
11-20	0630	10.50	411	02-12	1830	10.27	451
01-13	2015	9.97	421	02-22	0645	11.07	534
02-05	0215	9.85	409				

WABASH RIVER BASIN

03376260 Flat Creek near Otwell, Ind.

LOCATION.--Lat 38°26'12", long 87°07'52", in SE¼SE¼ sec.12, T.1 S., R.7 W., Pike County, on right bank at upstream side of bridge on State Highway 56, 2.2 miles west of intersection of State Highways 56 and 257, 2.5 miles southeast of Otwell, and 6.2 miles east of junction of State Highways 56 and 61.

DRAINAGE AREA.--21.3 sq mi.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 448.00 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 18.9 cfs (12.05 inches per year).

EXTREMES.--Current year: Maximum discharge, 975 cfs Jan. 4 (gage height, 11.25 ft); no flow Oct. 1-8, Aug. 2, 3, Sept. 12-19.
Period of record: Maximum discharge, 1,320 cfs Feb. 9 or 10, 1965 (gage height, 11.89 ft, from recorded range in stage); no flow at times each year.
Flood in March 1964 reached a stage of 12.58 ft.

REMARKS.--Records fair.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0	3.8	4.0	2.7	1.5	11	6.0	2.2	7.8	.60	.04	2.7
2	0	3.4	3.7	2.6	1.8	9.8	11	1.9	17	.55	C	11
3	0	6.0	3.2	7.0	1.7	5.5	6.5	1.5	14	.15	0	21
4	0	6.3	3.2	646	159	9.3	4.5	1.5	10	.05	545	1.6
5	0	4.5	2.8	28	120	9.3	4.0	1.4	6.8	2.7	56	.05
6	0	3.7	2.6	14	21	21	10	7.2	5.8	2.4	5.5	16
7	0	3.1	2.3	8.2	11	27	20	26	5.2	.70	4.3	16
8	0	2.6	2.4	5.4	9.0	13	8.8	18	13	.18	3.8	.40
9	17	2.4	2.5	4.5	8.0	9.0	6.0	6.5	6.0	31	3.1	.05
10	6.0	5.5	2.4	4.0	7.8	33	4.2	3.4	4.9	114	2.4	.01
11	1.0	7.4	2.5	3.9	15	24	3.8	4.5	4.3	30	2.2	.01
12	.90	6.3	3.4	5.8	131	15	3.5	5.0	18	4.5	1.5	0
13	7.0	4.9	3.4	139	40	11	3.8	3.1	7.2	2.6	.50	0
14	51	4.0	2.9	272	30	11	7.0	1.7	4.9	5.5	.26	0
15	20	7.8	2.7	41	22	25	6.3	.90	96	4.9	.25	0
16	4.6	12	38	15	19	14	5.5	.80	29	3.4	.26	0
17	1.7	5.8	55	11	250	8.4	4.6	.80	7.2	2.5	.18	0
18	1.4	4.5	24	8.8	51	7.4	4.2	.70	5.2	2.3	.11	0
19	1.3	3.8	16	7.0	151	9.5	3.3	.70	4.3	2.6	.05	0
20	5.5	108	8.8	6.0	54	5.5	3.2	1.2	3.7	1.6	.03	2.2
21	6.0	32	30	5.0	64	7.6	3.9	.90	3.4	1.7	.02	1.9
22	3.3	19	110	4.4	512	6.5	3.2	.80	2.9	2.4	.03	.15
23	2.0	11	74	3.9	37	5.6	2.0	.50	2.6	3.1	.04	.45
24	1.7	5.5	29	3.6	23	5.0	2.8	112	2.5	3.7	.02	.70
25	1.7	3.8	17	3.3	18	4.9	2.8	254	2.6	2.9	.04	2.3
26	1.7	3.8	10	3.0	24	5.2	2.3	16	2.8	1.5	.05	19
27	1.6	4.5	5.2	2.7	36	5.0	2.6	11	3.1	.22	.03	2.7
28	2.6	4.2	3.8	2.5	15	4.9	3.7	8.8	3.1	8.4	.02	.80
29	39	4.0	3.4	2.3	-----	4.6	2.6	7.0	2.4	12	.03	.22
30	16	4.0	3.1	2.2	-----	3.9	2.4	4.7	.60	.50	.02	.07
31	7.0	-----	2.5	2.0	-----	3.8	-----	4.0	-----	.04	.02	-----
TOTAL	200.00	297.6	474.3	1,329.8	1,875.2	347.7	154.9	509.50	296.30	252.73	625.59	99.35
MEAN	6.45	9.92	15.3	42.9	67.0	11.2	5.16	16.4	9.88	8.15	20.3	3.31
MAX	51	108	110	646	512	33	20	254	96	114	545	21
MIN	0	2.4	2.3	2.0	1.7	3.8	2.0	.70	.60	.04	0	0
CFSM	.30	.47	.72	2.01	3.15	.53	.24	.77	.46	.38	.55	.16
IN.	.35	.52	.63	2.32	3.27	.61	.27	.89	.52	.44	1.10	.17

CAL YR 1970 TOTAL 8,001.57 MEAN 21.9 MAX 664 MIN 0 CFSM 1.03 IN 13.97
WTR YR 1971 TOTAL 6,467.37 MEAN 17.7 MAX 646 MIN 0 CFSM .83 IN 11.30

PEAK DISCHARGE (BASE, 450 CFS REVISED)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0315	11.25	975	02-22	0400	11.08	916
01-14	0430	10.27	576	05-24	2330	10.92	848
02-04	2250	9.93	496	08-04	1515	10.98	872
02-17	0815	9.80	450				

03376300 Patoka River at Winslow, Ind.

LOCATION.--Lat 38°22'48", long 87°13'00", in SW 1/4 sec. 32, T.1 S., R.7 W., Pike County, on right bank at abandoned bridge abutment, 65 ft upstream from bridge on State Highway 61, 100 ft downstream from dam of Winslow Water Company, and 41.3 miles above mouth.

DRAINAGE AREA.--603 sq mi.

PERIOD OF RECORD.--October 1963 to current year. Discharge measurements and gage readings June 1961 to Sept. 1963, obtained by Indiana Flood Control and Water Resources Commission, are available in the district office.

GAGE.--Water-stage recorder. Datum of gage is 400.00 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Nov. 21, 1963, nonrecording gage on downstream side of bridge 65 ft downstream at same datum.

AVERAGE DISCHARGE.--8 years, 644 cfs (14.50 inches per year).

EXTREMES.--Current year: Maximum daily discharge, 3,000 cfs Feb. 26-28, minimum daily, 8.8 cfs Oct. 6.
Period of record: Maximum discharge, 15,500 cfs Mar. 13, 1964 (gage height, 28.84 ft); minimum daily, 0.5 cfs Aug. 5, 1964.
Flood in January 1937 reached a stage of 28.9 ft, from floodmarks, information from Indiana Flood Control and Water Resources Commission.

REMARKS.--Records poor. An average 0.13 cfs is diverted for municipal water supply 100 ft above gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11	413	322	701	240	2,900	272	437	299	38	90	29
2	10	329	276	478	210	2,700	326	383	412	40	60	45
3	9.9	295	242	389	190	2,500	434	311	452	35	50	210
4	9.4	288	213	1,070	600	2,400	506	264	360	30	300	100
5	9.1	277	185	1,300	1,400	2,200	564	240	250	60	870	50
6	8.8	255	144	1,280	1,450	2,000	570	276	180	50	870	200
7	8.9	228	126	1,290	1,450	1,900	635	826	131	37	800	500
8	11	198	100	1,290	1,450	1,800	743	1,110	104	30	600	400
9	26	176	87	1,260	1,450	1,700	764	1,110	244	40	450	240
10	80	171	77	1,120	1,450	1,600	734	1,170	378	120	230	180
11	216	225	73	948	1,450	1,500	653	1,180	305	725	130	140
12	150	328	72	608	1,700	1,400	539	1,180	227	631	90	100
13	130	307	74	593	2,000	1,400	446	1,190	185	432	70	95
14	120	287	77	1,350	2,000	1,300	399	1,200	193	305	56	50
15	600	298	80	1,470	2,000	1,300	382	1,230	150	271	47	84
16	650	323	137	1,500	2,000	1,300	375	1,220	284	260	38	72
17	660	342	490	1,500	2,020	1,200	367	1,110	650	170	31	62
18	640	320	804	1,500	2,050	1,200	353	818	690	100	26	54
19	450	294	880	1,500	2,020	1,100	326	508	548	70	22	50
20	200	534	892	1,500	2,000	1,100	284	298	346	52	18	70
21	250	938	926	1,500	2,200	1,000	249	196	201	43	16	100
22	330	1,090	1,220	1,400	2,400	960	223	143	114	39	14	200
23	350	1,150	1,360	1,200	2,700	900	200	110	110	42	13	160
24	300	1,190	1,380	950	2,900	735	192	150	90	43	12	130
25	250	1,230	1,370	700	2,900	608	197	986	70	41	12	110
26	200	1,200	1,370	550	3,000	519	201	1,150	60	35	120	120
27	170	1,060	1,390	450	3,000	455	209	1,150	50	37	70	100
28	130	790	1,340	390	3,000	405	523	1,090	45	41	37	90
29	350	559	1,340	340	-----	359	629	928	40	40	80	80
30	520	405	1,220	300	-----	326	517	653	37	50	50	63
31	513	-----	1,000	270	-----	290	-----	419	-----	70	32	-----
TOTAL	7,363.1	15,500	19,267	30,557	51,230	41,057	12,812	23,036	7,205	3,977	5,304	3,924
MEAN	238	517	622	987	1,830	1,324	427	743	240	128	171	131
MAX	660	1,230	1,390	1,500	3,000	2,900	764	1,230	690	725	870	500
MIN	8.8	171	72	270	150	290	192	110	37	30	12	29
CFSM	.39	.86	1.03	1.64	3.03	2.20	.71	1.23	.40	.21	.28	.22
IN.	.45	.96	1.19	1.89	3.16	2.53	.79	1.42	.44	.25	.33	.24

CAL YR 1970 TOTAL 299,077.1 MEAN 819 MAX 4,050 MIN 8.8 CFSM 1.36 IN 18.45
WTR YR 1971 TOTAL 221,272.1 MEAN 606 MAX 3,000 MIN 8.8 CFSM 1.01 IN 13.65

NOTE.--No gage-height record Jan. 15 to Mar. 23, July 16 to Sept. 30.

WABASH RIVER BASIN

03376350 South Fork Patoka River near Spurgeon, Ind.

LOCATION.--Lat 38°17'50", long 87°15'39", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.35, T.2 S., R.8 W., Pike County, on right bank at downstream side of bridge on State Highway 61, 0.5 mile north of Enos Corner, and 3.1 miles north of Spurgeon.

DRAINAGE AREA.--42.8 sq mi.

PERIOD OF RECORD.--October 1964 to current year.

GAGE.--Water-stage recorder. Datum of gage is 420.88 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 40.7 cfs (12.91 inches per year).

EXTREMES.--Current year: Maximum discharge, 988 cfs Feb. 22 (gage height, 9.75 ft); minimum daily, 5.0 cfs Aug. 19, 20, 28, 29.
 Period of record: Maximum discharge, 1,380 cfs Apr. 28, 1970 (gage height, 12.79 ft); minimum daily, 2.3 cfs Nov. 10, 14, 1964, Aug. 22, 24, 25, 1965
 Flood in March 1964 reached a stage of 13.09 ft, from floodmarks.

REMARKS.--Records good except those for parts of December, January, and February, which are fair. Some slight regulation by coal-washing operation and strip-mining above gage.

REVISIONS.--WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.6	16	13	11	8.4	57	40	22	89	18	6.5	5.7
2	7.8	24	12	11	7.6	54	45	24	72	7.8	7.3	42
3	7.4	22	13	62	8.6	53	33	19	45	6.9	6.9	43
4	6.2	22	11	286	199	49	29	17	31	6.0	126	9.4
5	6.2	18	10	68	177	44	25	18	26	11	20	6.5
6	7.0	15	5.5	43	60	98	48	53	22	8.3	15	86
7	6.2	11	5.1	31	41	81	87	119	20	8.8	11	39
8	15	10	8.8	23	35	53	65	65	21	6.9	10	15
9	10.5	17	8.8	20	32	47	43	41	19	8.8	5.4	10
10	23	27	5.4	17	25	101	33	31	14	138	7.3	7.8
11	13	16	9.4	16	27	69	30	40	12	49	6.5	10
12	18	15	14	22	276	53	27	35	34	20	5.7	7.8
13	65	12	11	239	150	49	25	27	18	15	6.0	7.3
14	108	19	8.8	235	84	47	35	20	15	38	5.3	6.5
15	28	22	8.8	80	55	131	27	17	91	17	6.0	6.0
16	16	14	58	52	74	60	25	16	51	11	5.7	7.8
17	12	13	71	41	273	47	22	14	22	8.8	5.7	6.5
18	12	11	39	33	115	42	22	12	16	8.3	5.7	6.0
19	11	15	25	28	192	52	19	11	15	9.4	5.0	6.0
20	45	175	22	24	160	44	18	10	14	7.3	5.0	62
21	26	46	201	21	138	37	18	8.8	13	6.9	5.7	16
22	18	34	219	15	515	35	15	7.8	9.4	6.9	6.5	11
23	14	22	104	17	153	31	15	8.8	8.8	6.9	6.5	9.8
24	12	20	50	16	95	28	15	109	7.8	9.4	6.0	9.3
25	12	18	35	14	81	27	14	160	7.3	8.3	6.0	19
26	11	17	28	13	118	30	13	43	7.8	7.8	14	22
27	10	17	24	12	104	28	57	45	7.3	6.5	6.0	13
28	40	15	19	11	66	27	71	34	7.3	8.3	5.0	9.4
29	118	15	15	10	-----	24	34	26	8.3	8.8	5.0	7.8
30	34	13	13	12	-----	22	25	22	17	11	5.7	7.3
31	21	-----	12	10	-----	20	-----	20	-----	8.3	5.3	-----
TOTAL	834.4	711	1,135.6	1,501	3,289.6	1,540	583	1,095.4	741.0	453.4	358.5	512.7
MEAN	26.9	23.7	36.6	48.4	117	49.7	32.8	35.3	24.7	15.9	11.6	17.1
MAX	118	175	219	266	515	131	87	160	91	138	126	86
MIN	6.2	10	8.8	10	7.6	20	13	7.8	7.3	6.0	5.0	5.7
CFSM	.63	.55	.86	1.13	2.73	1.16	.77	.82	.58	.37	.27	.40
IN.	.73	.62	.86	1.30	2.86	1.34	.85	.95	.64	.43	.31	.45

CAL YR 1970 TOTAL 20,399.5 MEAN 55.9 MAX 889 MIN 5.6 CFSM 1.31 IN 17.73
 WTR YR 1971 TOTAL 13,195.6 MEAN 36.2 MAX 515 MIN 5.0 CFSM .85 IN 11.47

PEAK DISCHARGE (BASE, 500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0330	6.01	534	05-24	2230	7.18	674
01-13	1745	6.07	541	07-10	1845	6.01	534
02-22	0400	9.75	988				

03376500 Patoka River near Princeton, Ind.

LOCATION.--Lat 38°23'30", long 87°32'55", in Location 107, T.1 S., R.10 W., Gibson County, on left bank 75 ft upstream from dam of Princeton Water and Lighting Co., 0.1 mile downstream from bridge on State Highway 65, 0.5 mile downstream from Indian Creek, and 2 miles northeast of Princeton.

DRAINAGE AREA.--822 sq mi.

PERIOD OF RECORD.--August 1934 to current year. Published as "at Patoka" August 1934 to September 1940. Records published for both sites October 1939 to September 1940 (monthly discharge only at present site, for October, November 1939, published in WSP 1305).

GAGE.--Water-stage recorder and concrete control. Datum of gage is 394.14 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). See WSP 1725 for history of changes prior to Jan. 21, 1941.

AVERAGE DISCHARGE.--37 years, 969 cfs (16.01 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,240 cfs Mar. 1 (gage height, 14.97 ft); minimum daily, 20 cfs Oct. 6, 7.
Period of record: Maximum discharge, 18,700 cfs Jan. 26, 1937 (gage height, 26.80 ft, site and datum then in use); no flow Aug. 29 to Sept. 12, 1936.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1275: 1952. WSP 1335: 1935-36, 1938-39, 1940(M), 1949-50. WSP 1385: 1951-52. WSP 2109: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	26	560	731	1,480	330	4,230	379	582	907	63	103	48
2	26	453	456	1,390	300	4,200	394	492	835	63	76	48
3	25	400	351	1,280	270	4,070	451	399	805	45	65	328
4	23	373	273	1,630	400	3,970	528	335	701	37	580	148
5	21	343	229	1,550	1,080	3,920	592	280	492	100	1,020	94
6	20	295	205	1,560	1,050	3,860	662	353	335	79	952	358
7	20	263	181	1,570	1,100	3,710	731	902	237	45	935	1,000
8	21	233	165	1,560	1,170	3,570	802	1,020	205	37	911	544
9	68	209	155	1,550	1,280	3,470	847	1,060	205	41	793	289
10	233	209	144	1,530	1,470	3,310	856	1,090	341	141	496	295
11	201	217	137	1,500	1,460	3,100	847	1,170	381	758	273	245
12	256	249	137	1,440	1,530	2,900	805	1,200	386	808	165	181
13	252	313	141	1,460	1,640	2,670	718	1,200	320	731	121	134
14	394	295	137	1,610	1,770	2,440	606	1,210	237	600	94	127
15	592	310	134	1,580	1,820	2,230	518	1,220	377	415	76	121
16	722	325	273	1,610	1,870	1,990	466	1,220	502	310	65	103
17	776	330	740	1,660	2,160	1,810	442	1,230	488	259	55	94
18	769	339	787	1,680	2,320	1,680	423	1,220	685	201	48	82
19	652	320	863	1,660	2,540	1,570	400	1,170	737	151	41	73
20	438	817	902	1,670	2,770	1,480	377	961	664	115	37	106
21	361	865	959	1,670	2,860	1,440	339	640	377	85	36	165
22	366	890	1,160	1,660	3,440	1,390	292	335	225	68	41	158
23	427	929	1,280	1,650	3,590	1,330	263	225	158	58	39	205
24	392	961	1,290	1,600	3,730	1,250	241	345	124	60	36	173
25	343	988	1,360	1,510	3,840	1,160	237	1,430	100	60	32	177
26	286	1,030	1,410	1,340	3,950	1,030	237	1,240	79	50	130	225
27	245	1,070	1,460	1,110	4,050	902	277	1,210	70	53	60	173
28	205	1,090	1,480	874	4,170	782	508	1,230	60	100	115	134
29	353	1,070	1,500	670	-----	672	662	1,230	55	141	155	124
30	482	938	1,510	554	-----	550	676	1,210	50	68	106	106
31	564	-----	1,500	426	-----	426	-----	1,110	-----	88	70	-----
TOTAL	9,559	16,684	22,050	44,034	57,960	71,112	15,576	28,519	11,138	5,830	7,726	6,058
MEAN	308	556	711	1,420	2,070	2,294	519	920	371	188	249	202
MAX	776	1,090	1,510	1,680	4,170	4,230	856	1,430	907	809	1,020	1,000
MIN	20	209	134	426	270	426	237	225	50	37	32	48
CFSM	.37	.68	.87	1.73	2.52	2.79	.63	1.12	.45	.23	.30	.25
IN.	.43	.76	1.00	1.99	2.62	3.22	.70	1.29	.50	.26	.35	.27
CAL YR 1970	TOTAL	395,236	MEAN	1,083	MAX	4,350	MIN	20	CFSM	1.32	IN	17.89
WTR YR 1971	TOTAL	296,246	MEAN	812	MAX	4,230	MIN	20	CFSM	.99	IN	13.41

03378000 Bonpas Creek at Browns, Ill.

LOCATION.--Lat 38°23'11", long 87°58'32", in NW 1/4 sec. 33, T.1 S., R.14 W., Wabash County, near center of span on downstream side of bridge on State Highway 15, 0.5 mile north of Browns and 0.7 mile upstream from Southern Railway bridge.

DRAINAGE AREA.--228 sq mi.

PERIOD OF RECORD.--October 1940 to current year.

GAGE.--Water-stage recorder. Datum of gage is 372.92 ft above mean sea level. Prior to Dec. 11, 1968, water-stage recorder and concrete dam at site 0.4 mile downstream at datum 2.0 ft higher. Dec. 11, 1968, to Aug. 13, 1969, nonrecording gage at site 0.5 mile downstream at datum 1.0 ft lower. Auxiliary nonrecording gage near mouth on Wabash River at Grayville read twice daily.

AVERAGE DISCHARGE.--31 years, 213 cfs (12.69 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,240 cfs Feb. 23 (gage height, 17.46 ft); no flow for several days.

Period of record: Maximum discharge, 7,500 cfs May 9, 1961 (gage height, 24.04 ft, site and datum then in use); no flow at times in most years.

REMARKS.--Records fair except those for winter periods, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.37	.30	2.1	3.5	5.5	160	22	5.0	21	4.0	3.3	0
2	.48	.75	1.8	3.4	5.0	46	23	4.5	29	3.5	4.1	0
3	.35	1.3	1.6	12	7.0	24	23	4.0	66	3.0	3.0	0
4	.11	1.1	1.2	664	358	23	21	4.2	62	5.0	3.5	0
5	0	.93	1.1	625	811	37	20	5.0	40	440	3.8	0
6	0	.84	.93	450	781	87	20	23	19	325	3.3	0
7	0	1.1	.93	200	656	412	29	230	11	124	2.4	5.0
8	0	1.1	.93	70	284	423	48	513	413	40	1.8	4.7
9	.36	1.6	.93	35	100	230	55	406	512	11	1.5	1.8
10	.75	3.2	.84	18	60	144	42	176	107	253	1.2	.84
11	37	1.7	.93	14	40	144	30	88	33	806	.93	.39
12	11	1.7	1.4	13	153	126	24	117	547	229	.75	.21
13	10	2.0	.93	93	100	101	22	149	740	55	.66	.13
14	12	2.6	.66	468	70	82	21	106	526	286	.66	.06
15	8.8	2.8	.75	389	60	237	20	60	231	355	.48	0
16	5.3	2.4	4.5	180	80	384	20	32	406	95	.39	0
17	3.3	2.2	8.6	80	724	228	19	20	629	30	.13	0
18	2.0	2.2	20	45	1,100	116	17	15	315	17	.06	0
19	1.4	2.4	18	35	1,270	84	15	11	116	59	0	0
20	1.3	6.2	12	30	1,470	70	14	8.8	300	115	0	.13
21	1.0	15	11	22	1,440	59	12	7.0	190	44	0	0
22	.75	14	44	18	2,130	49	11	5.9	82	18	.06	0
23	.75	9.0	100	15	2,190	41	9.4	5.9	30	10	.06	0
24	1.0	6.4	82	13	2,180	35	9.6	117	14	7.0	0	0
25	1.0	4.8	42	11	1,900	31	8.0	775	10	5.0	0	0
26	.84	4.2	21	10	1,460	30	7.4	770	8.4	10	0	0
27	.84	3.5	11	9.0	1,090	30	7.2	772	7.0	8.0	0	0
28	.84	2.9	7.2	8.0	642	29	7.5	361	6.0	5.0	0	0
29	1.2	2.6	5.6	7.0	-----	28	6.6	100	5.0	3.5	0	0
30	.84	2.3	4.5	6.5	-----	25	5.6	47	4.5	2.5	0	0
31	.48	-----	4.0	6.0	-----	23	-----	28	-----	1.7	0	-----
TOTAL	213.95	103.12	412.43	3,553.4	21,166.5	3,533	588.3	4,966.3	5,479.9	3,370.2	32.08	13.26
MEAN	6.90	3.44	13.3	115	756	114	19.6	160	183	109	1.03	.44
MAX	75	15	100	664	2,190	423	55	775	740	806	4.1	5.0
MIN	0	.30	.66	3.4	5.0	23	5.6	4.0	4.5	1.7	0	0
CFSM	.03	.02	.06	.50	3.32	.50	.09	.70	.80	.48	.005	.002
IN.	.03	.02	.07	.58	3.45	.58	.10	.81	.89	.55	.005	.002
CAL YR 1970	TOTAL 75,848.56	MEAN 208	MAX 2,290	MIN 0	CFSM .91	IN 12.38						
WTR YR 1971	TOTAL 43,432.44	MEAN 119	MAX 2,190	MIN 0	CFSM .52	IN 7.09						

03378550 Big Creek near Wadesville, Ind.

LOCATION.--Lat 38°04'58", long 87°46'10", in SW¼SW¼ sec.16, T.5 S., R.12 W., Posey County, on left bank at downstream side of bridge on U.S. Highway 460 (S.R. 66), 0.6 mile northwest of Blairsville, and 1.6 miles southeast of Wadesville.

DRAINAGE AREA.--104 sq mi.

PERIOD OF RECORD.--July 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 370.00 ft above mean sea level.

AVERAGE DISCHARGE.--6 years, 99.3 cfs (12.97 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,910 cfs Sept. 7 (gage height, 17.79 ft); no flow Oct. 1-8.

Period of record: Maximum discharge, 5,370 cfs Apr. 28, 1970 (gage height, 19.18 ft); no flow at times each year.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	ALG	SEP
1	C	11	10	17	12	51	22	15	129	19	1.2	96
2	C	20	8.2	18	11	78	31	17	174	5.0	1.2	46
3	C	37	7.2	183	12	69	21	13	101	2.5	1.2	279
4	C	22	6.6	1,810	305	63	17	5.2	26	1.7	535	22
5	C	15	5.2	243	52C	69	14	9.2	15	1.4	137	3.5
6	O	11	4.7	100	116	174	25	25	9.7	1.4	1C	483
7	O	8.5	3.8	44	76	221	96	103	7.0	1.0	4.7	3,010
8	O	6.4	4.0	34	46	110	178	71	270	.60	3.1	960
9	8C	6.8	4.5	31	4C	82	68	31	41	.40	2.6	202
10	104	10	4.2	25	36	140	35	20	12	412	2.5	29
11	4.5	8.0	4.7	27	63	135	29	32	7.0	541	2.2	74
12	2.1	7.5	6.2	28	456	101	26	26	125	16	1.8	20
13	109	6.8	4.9	856	225	83	24	18	34	6.4	1.6	12
14	222	7.5	3.7	972	16C	73	26	12	235	28C	1.6	6.8
15	41	11	3.5	227	11C	239	21	8.7	784	94	1.5	5.2
16	12	10	64	116	100	108	19	7.5	850	41	1.3	4.9
17	5.8	9.0	137	51	1,100	69	16	5.8	76	5.8	1.4	14
18	4.5	8.2	50	66	485	60	14	4.5	33	3.7	1.3	3.7
19	4.1	16	34	42	890	68	11	3.8	71	3.1	1.3	2.7
20	110	597	22	38	707	51	10	3.5	501	2.7	1.2	53
21	16	110	461	33	371	40	11	2.9	51	2.2	1.4	27
22	7.5	63	534	30	2,730	35	9.0	2.5	25	2.0	2.2	7.7
23	5.2	34	263	27	426	29	7.7	2.5	16	1.7	7.2	4.9
24	4.0	20	126	25	166	25	8.0	140	11	2.0	2.7	3.7
25	2.2	16	84	24	125	26	6.4	930	8.2	2.2	25	3.7
26	2.7	16	51	21	136	28	5.8	54	6.2	2.0	350	20
27	2.5	15	35	15	271	26	153	129	5.0	1.6	18	7.5
28	4.5	11	27	17	114	26	457	49	4.0	1.4	3.2	4.4
29	88	10	23	16	-----	22	41	23	3.7	1.3	2.2	3.4
30	46	10	19	18	-----	18	22	15	3.5	1.3	1.8	3.0
31	19	-----	18	15	-----	18	-----	10	-----	1.3	33	-----
TOTAL	897.6	1,133.7	2,029.4	5,217	5,856	2,377	1,463.5	1,793.1	3,634.3	1,457.70	1,204.4	5,410.1
MEAN	29.7	37.8	65.5	168	352	76.7	48.8	57.8	121	47.0	38.5	180
MAX	222	597	534	1,810	2,730	239	497	930	850	541	535	3,010
MIN	0	6.4	3.5	15	11	18	5.8	2.5	3.5	.40	1.2	2.7
CFSM	.28	.36	.63	1.62	3.38	.74	.47	.56	1.16	.45	.37	1.73
IN.	.32	.41	.73	1.67	3.53	.85	.52	.64	1.30	.52	.43	1.94

CAL YR 1970 TOTAL 50,435.48 MEAN 138 MAX 4,660 MIN 0 CFSM 1.33 IN 18.04
WTR YR 1971 TOTAL 36,476.20 MEAN 99.9 MAX 3,010 MIN 0 CFSM .96 IN 13.05

PEAK DISCHARGE (BASE, 2,400 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
01-04	0500	17.03	3,280	05-25	0130	16.56	2,850
01-13	2115	16.53	2,820	06-15	2215	16.72	2,980
02-19	2215	16.25	2,620	07-10	2230	16.51	2,810
02-22	0930	17.55	3,700	09-07	0945	17.79	3,910

04087500 Hart ditch at Munster, Ind.

LOCATION.--Lat 41°33'40", long 87°28'50", in SE 1/4 sec. 20, T.36 N., R.9 W., Lake County, on left bank at city limits of Munster, 0.2 mile downstream from Ridge Road, and 0.4 mile upstream from mouth.

DRAINAGE AREA.--69.2 sq mi.

PERIOD OF RECORD.--September 1942 to current year.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 591.27 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Since Sept. 11, 1959, auxiliary water-stage recorder 1,200 ft upstream from base gage.

AVERAGE DISCHARGE.--29 years, 56.4 cfs (11.07 inches per year).

EXTREMES.--Current year: Maximum discharge, 629 cfs Oct. 14 (gage height, 2.68 ft); maximum gage height, 4.25 ft Feb. 5 (ice jam); minimum daily discharge, 3.6 cfs Sept. 13, 15, 18.

Period of record: Maximum discharge, 2,670 cfs Apr. 28, 1959; maximum gage height, 7.83 ft Oct. 11, 1954; minimum daily discharge, 1.6 cfs Dec. 24-26, 31, 1963, Jan. 1, 2, Sept. 4-9, 14-17, 1964.

REMARKS.--Records fair.

REVISIONS.--WSP 1337: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23	43	66	16	10	86	43	11	40	5.5	6.2	6.2
2	19	46	51	16	9.2	66	42	18	17	4.8	5.5	7.0
3	16	86	43	16	9.0	49	39	17	11	4.2	8.7	14
4	17	90	39	20	40	39	34	17	7.8	7.0	7.0	40
5	24	114	34	18	500	43	31	25	6.2	48	6.2	29
6	22	79	27	17	300	64	29	159	5.5	14	6.2	70
7	18	54	23	15	170	98	28	72	5.5	8.7	6.2	36
8	58	43	23	13	47	58	28	49	4.8	68	7.0	14
9	93	43	24	12	33	36	27	37	4.8	45	7.0	9.6
10	58	58	27	11	27	41	24	31	5.5	24	18	6.2
11	43	56	111	11	24	36	23	37	43	19	13	5.5
12	36	48	143	10	22	52	21	46	40	17	7.8	4.2
13	54	42	95	10	20	150	21	34	18	12	7.8	3.6
14	542	43	68	10	19	240	21	27	12	8.7	7.0	4.2
15	469	42	45	10	17	450	19	22	8.7	8.7	7.0	3.6
16	220	37	42	10	17	410	17	18	7.8	7.0	7.0	4.2
17	119	33	45	9.8	18	190	17	18	7.0	7.8	7.0	6.2
18	72	29	48	9.6	80	131	17	15	27	7.0	6.2	3.6
19	51	28	62	9.5	400	329	16	15	95	7.8	6.2	18
20	46	32	58	9.8	260	290	15	13	27	9.6	7.0	12
21	46	32	49	11	178	165	16	12	18	9.6	7.0	7.8
22	40	29	45	11	128	128	17	11	13	7.0	7.8	6.2
23	33	22	43	11	159	93	16	11	13	48	8.7	5.5
24	29	18	33	11	98	72	15	12	9.6	27	37	5.5
25	27	16	32	12	77	62	14	12	13	14	31	11
26	24	16	27	13	143	56	14	11	9.0	8.7	15	9.6
27	22	31	24	12	262	52	15	10	7.3	8.7	9.6	8.7
28	81	62	22	12	117	51	15	9.4	6.6	12	8.7	7.8
29	137	74	20	11	-----	48	15	8.6	6.2	9.6	7.8	7.0
30	84	74	18	11	-----	46	14	8.2	6.2	8.7	7.0	6.2
31	56	-----	17	11	-----	43	-----	8.0	-----	7.0	6.2	-----
TOTAL	2,579	1,420	1,404	379.7	3,184.2	3,674	663	794.2	495.5	494.1	299.8	372.4
MEAN	83.2	47.3	45.3	12.2	114	119	22.1	25.6	16.5	15.9	9.67	12.4
MAX	542	114	143	20	500	450	43	159	95	68	37	70
MIN	16	16	17	9.5	9.0	36	14	8.0	4.8	4.2	5.5	3.6
CFSM	1.20	.68	.65	.18	1.65	1.72	.32	.37	.24	.23	.14	.18
IN.	1.39	.76	.75	.20	1.71	1.98	.36	.43	.27	.27	.16	.20

CAL YR 1970 TOTAL 25,134.3 MEAN 68.9 MAX 1,000 MIN 3.1 CFSM 1.00 IN 13.51
WTR YR 1971 TOTAL 15,759.9 MEAN 43.2 MAX 542 MIN 3.6 CFSM .62 IN 8.47

PEAK DISCHARGE (BASE, 800 CFS).--No peak above base.

STREAMS TRIBUTARY TO LAKE MICHIGAN

04087600 Little Calumet River at Munster, Ind.

LOCATION.--Lat 41°34'07", long 87°31'18", in SE¼NW¼ sec.13, T.36 N., R.10 W., Lake County, on left bank 200 ft upstream from Hohman Street Bridge at north city limits of Munster, 0.4 mile upstream from Indiana-Illinois State line, and 4.6 miles upstream from mouth of Thorn Creek.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is 580.72 ft above mean sea level.

AVERAGE DISCHARGE.--13 years, 62.0 cfs.

EXTREMES.--Current year: Maximum discharge, 449 cfs Oct. 15 (gage height, 9.74 ft); minimum daily, 5.1 cfs Aug. 21.
Period of record: Maximum discharge, 1,510 cfs Apr. 28, 1959 (gage height, 13.67 ft); maximum gage height, 14.43 ft Dec. 25, 1965; minimum daily discharge, 1.9 cfs Aug. 20, 1964.

REMARKS.--Records good. Flow from Upper Little Calumet River basin is diverted to Lake Michigan by Burns ditch.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	LCF	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	67	51	22	11	1.7	52	12	42	7.9	6.5	7.3
2	21	82	76	21	10	30	50	21	22	5.3	6.1	7.1
3	18	121	63	22	9.4	33	46	16	16	5.8	6.9	11
4	16	133	54	32	50	52	42	15	13	5.6	7.1	54
5	30	146	50	28	411	43	38	23	11	143	6.3	59
6	23	121	41	24	296	69	36	186	11	38	6.9	121
7	19	86	38	20	170	99	34	115	12	18	6.3	83
8	55	67	33	16	120	70	32	72	9.2	103	6.1	34
9	80	69	32	14	83	52	29	51	9.0	80	8.3	23
10	56	82	33	12	60	51	28	43	7.9	39	18	17
11	40	82	105	11	50	46	26	41	68	32	25	13
12	32	72	132	11	46	50	25	57	66	22	6.6	10
13	42	65	118	11	42	172	25	45	33	20	6.9	3.3
14	353	72	95	11	38	169	24	34	21	16	6.3	3.1
15	432	65	76	11	35	335	22	27	16	15	5.8	6.7
16	289	57	65	11	34	323	21	21	13	13	6.0	6.7
17	186	51	80	10	36	212	21	20	11	12	6.0	3.3
18	132	47	65	10	131	162	20	16	19	9.2	6.0	5.2
19	94	43	76	10	262	232	19	13	160	9.7	5.6	33
20	86	52	75	10	337	244	18	11	50	11	5.6	22
21	93	47	63	11	248	191	18	10	35	11	5.1	14
22	72	42	62	11	180	154	19	9.2	24	9.7	5.3	12
23	62	37	54	11	181	128	18	9.0	14	48	9.2	11
24	55	33	48	11	136	127	17	16	17	73	25	3.7
25	47	29	42	12	104	95	15	15	20	16	101	14
26	42	27	38	13	126	83	14	9.5	14	11	21	17
27	35	42	34	13	151	75	16	8.3	11	9.5	13	13
28	31	30	37	12	147	68	16	7.5	9.5	16	11	12
29	152	46	27	12	-----	65	15	6.5	9.0	12	8.8	10
30	123	100	25	12	-----	62	13	6.5	8.5	9.0	8.3	9.2
31	38	-----	23	12	-----	56	-----	6.1	-----	7.1	7.1	-----
TOTAL	2,892	2,114	1,926	447	3,544.4	3,663	769	942.6	772.1	834.5	375.1	666.7
MEAN	93.0	70.5	58.4	14.4	127	118	25.6	30.4	25.7	26.9	12.1	22.2
MAX	432	146	132	32	411	335	52	186	160	143	101	121
MIN	16	27	23	10	9.4	45	13	6.1	7.2	5.6	5.1	3.7
WATER YEAR 1970	TOTAL	27,463.4	MEAN	76.6	MAX	596	MIN	4.9				
WATER YEAR 1971	TOTAL	18,842.4	MEAN	51.6	MAX	432	MIN	5.1				

04090500 Thorn Creek at Thornton, Ill.

LOCATION.--Lat 41°34'05", long 87°36'30", near center of N $\frac{1}{2}$ sec. 34, T.36 N., R.14 E., Cook County, on right bank at downstream side of bridge on Margaret Street in Thornton, 1 mile downstream from North Creek, and at mile 4.25.

DRAINAGE AREA.--104 sq mi.

PERIOD OF RECORD.--May 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 586.43 ft above mean sea level. Prior to Dec. 18, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 92.1 cfs (12.03 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,250 cfs Oct. 15 (gage height, 10.02 ft); minimum daily, 21 cfs Aug. 22.
Period of record: Maximum discharge, 4,700 cfs July 13, 1957 (gage height, 16.00 ft); minimum daily, 4.4 cfs Sept. 11, 1949.
Flood of Apr. 5, 1947, reached a stage of 14.34 ft, from floodmark (discharge, 4,200 cfs).

REMARKS.--Records fair. Some diurnal fluctuation caused by pumping operation above station. Figures of discharge include about 16 cfs pumped from ground-water sources for municipal supply and an undetermined amount of ground-water pumpage for industrial use.

REVISIONS.--WSP 1707: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	103	120	39	22	113	64	37	70	34	27	25
2	51	100	110	37	34	94	57	61	57	32	28	26
3	50	131	89	37	32	73	53	47	45	28	30	49
4	45	164	83	95	31	70	48	44	42	26	29	72
5	64	175	78	56	562	67	50	49	38	369	30	75
6	54	138	70	37	218	118	48	355	34	109	28	167
7	46	114	66	35	135	106	45	166	36	63	28	177
8	81	101	62	36	99	75	46	99	36	299	28	46
9	93	108	61	31	79	70	43	84	23	196	30	34
10	77	128	60	29	67	66	38	71	33	118	41	31
11	59	120	175	33	67	54	38	72	64	94	58	29
12	54	112	190	31	70	69	36	95	69	67	28	26
13	58	103	155	30	57	145	33	74	46	57	26	26
14	501	128	125	29	54	202	40	61	40	49	28	26
15	758	121	105	29	58	607	40	53	39	44	25	27
16	244	108	98	27	60	401	40	43	36	43	23	25
17	148	98	102	25	99	176	40	45	36	48	28	30
18	108	93	109	28	245	134	36	44	38	41	28	27
19	92	88	126	30	353	333	37	41	172	40	27	61
20	49	102	120	28	298	236	38	39	87	38	28	48
21	95	92	102	30	163	151	38	38	62	37	25	34
22	78	84	95	28	154	115	43	37	47	33	21	29
23	74	76	50	26	179	102	42	27	65	45	31	27
24	71	70	78	26	141	87	40	55	63	90	28	27
25	72	61	61	32	127	75	36	55	59	41	79	40
26	64	60	52	36	151	73	38	43	44	34	32	45
27	63	85	52	30	214	70	49	37	38	31	25	34
28	93	130	49	31	134	69	44	39	36	44	23	32
29	144	140	45	33	-----	67	40	37	36	40	22	30
30	141	135	39	28	-----	67	38	33	35	32	22	29
31	116	-----	40	28	-----	64	-----	33	-----	29	25	-----
TOTAL	3,833	3,268	2,811	1,050	3,914	4,154	1,278	2,014	1,536	2,251	931	1,234
MEAN	124	109	90.7	33.9	140	134	42.6	65.0	51.2	72.6	30.0	42.9
MAX	752	175	190	95	562	607	64	355	172	369	79	167
MIN	45	60	39	25	28	64	33	27	33	26	21	25
CFS ^m	1.19	1.05	.87	.33	1.35	1.29	.41	.63	.49	.70	.29	.41
IN.	1.37	1.17	1.01	.38	1.40	1.49	.46	.72	.55	.81	.33	.46

CAL YR 1970 TOTAL 45,610 MEAN 125 MAX 1,640 MIN 22 CFSM 1.20 IN 14.31
WTR YR 1971 TOTAL 29,324 MEAN 77.6 MAX 759 MIN 21 CFSM .75 IN 10.13

PEAK DISCHARGE (BASE, 900 CFS).--Oct. 15 (0030) 1,250 cfs (10.02 ft).

STREAMS TRIBUTARY TO LAKE MICHIGAN

04091000 Little Calumet River at South Holland, Ill.

LOCATION.--Lat 41°36'05", long 87°34'38", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.13, T.36 N., R.14 E., Cook County, on right bank at downstream side of bridge on U.S. Highway 6, 0.6 mile downstream from Thorn Creek, 1.6 miles east of South Holland, and at mile 21.66.

PERIOD OF RECORD.--October 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 575.00 ft above mean sea level (Illinois Division of Waterways bench mark). Prior to Oct. 27, 1947, nonrecording gage at same site and datum. Nov. 17, 1947 to Nov. 19, 1970, auxiliary water-stage recorder at Dixmoor, 6.1 miles downstream; prior to Nov. 17, 1947, nonrecording gage at same site read twice daily.

AVERAGE DISCHARGE.--24 years, 162 cfs.

EXTREMES.--Current year: Maximum discharge, 1,520 cfs Oct. 15 (gage height, 13.40 ft); maximum gage height, 13.59 ft Feb. 5 (backwater from ice); minimum daily discharge, 30 cfs Aug. 30.

Period of record: Maximum discharge, 4,440 cfs July 14, 1957 (gage height, 20.11 ft); minimum daily, 7.9 cfs Oct. 6, 1950. Flood of Apr. 6, 1947, reached a stage of 19.24 ft, from floodmarks (discharge, 4,760 cfs).

REMARKS.--Records good except those for winter periods, which are fair. Flow from about 330 sq mi of upper Little Calumet River basin above a point in Gary, Ind., is diverted to Lake Michigan by Burns ditch. Calumet Sag Channel, 8 miles below station, diverts the entire low flow to the Mississippi River basin.

REVISIONS (WATER YEARS).--WSP 1507: 1950, 1953.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	93	156	223	69	50	202	131	50	120	51	44	32
2	33	165	201	67	54	196	125	77	102	47	43	31
3	76	291	166	66	55	159	114	77	69	44	51	58
4	50	311	145	102	70	127	100	63	56	40	48	159
5	101	355	129	95	1,050	129	93	72	51	682	45	226
6	32	297	113	66	450	192	51	632	45	263	44	445
7	70	213	100	58	280	277	98	415	48	100	44	346
8	141	166	56	54	210	191	46	231	44	523	42	134
9	199	141	94	55	172	151	92	170	41	445	44	86
10	150	212	53	54	152	142	74	133	40	224	65	72
11	126	201	257	59	139	134	70	127	157	146	119	62
12	84	178	330	54	120	141	67	177	163	105	58	55
13	113	154	301	51	58	230	71	140	89	89	48	57
14	1,030	205	235	53	93	457	70	112	63	75	48	51
15	1,420	199	194	51	78	1,160	69	95	56	67	46	44
16	796	165	160	47	74	1,100	66	95	50	64	41	39
17	429	146	164	45	110	619	64	77	46	69	45	45
18	292	133	174	46	310	472	61	77	54	57	46	41
19	216	123	140	49	730	757	59	71	441	57	47	99
20	194	157	154	51	812	764	61	63	195	58	47	99
21	189	139	160	52	543	520	60	57	118	61	45	57
22	166	128	153	52	391	399	65	55	95	51	42	45
23	146	109	146	45	460	304	61	54	85	83	64	42
24	134	47	119	43	334	246	58	70	110	222	119	39
25	120	97	113	55	254	205	53	98	99	84	336	54
26	106	85	100	64	312	123	49	61	73	60	79	79
27	95	122	52	56	555	185	61	54	50	53	44	55
28	186	239	94	54	392	157	70	49	53	64	35	51
29	317	255	79	54	-----	149	57	48	54	75	32	46
30	230	252	72	56	-----	140	52	43	53	53	30	43
31	232	-----	70	51	-----	133	-----	40	-----	47	33	-----
TOTAL	7,690	5,492	4,756	1,776	8,344	10,446	2,226	3,574	2,709	4,059	1,874	2,594
MEAN	248	183	153	57.3	269	334	74.2	115	90.3	131	60.5	82.5
MAX	1,420	355	330	103	1,050	1,160	131	632	441	682	336	445
MIN	69	45	70	45	50	127	49	40	40	40	30	31

CM YR 1970 TOTAL 31,392 MEAN 223 MAX 2,240 MIN 36
 WYR 1971 TOTAL 55,619 MEAN 152 MAX 1,420 MIN 30

04093000 Deep River at Lake George Outlet at Hobart, Ind.

LOCATION.--Lat 41°32'10", long 87°15'25", In NW¼ sec. 32, T. 36 N., R. 7 W., Lake County, on left bank at upstream side of highway bridge, 300 ft upstream from Duck Creek, and 400 ft downstream from Lake George Dam.

DRAINAGE AREA.--125 sq mi.

PERIOD OF RECORD.--April 1947 to current year.

GAGE.--Water-stage recorder. Datum of gage is 588.17 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 29, 1952, nonrecording gage, and July 30, 1952, to July 20, 1955, water-stage recorder at site 400 ft upstream at datum 11.80 ft higher.

AVERAGE DISCHARGE.--24 years, 96.3 cfs (10.46 inches per year).

EXTREMES.--Current year: Maximum discharge, 742 cfs Feb. 6 (gage height, 8.48 ft); minimum daily, 9.8 cfs July 4.
Period of record: Maximum discharge, 3,880 cfs Oct. 11, 1954 (gage height, 19.48 ft, present datum, site then in use); minimum daily, 4.2 cfs Sept. 14, 1948.

REMARKS.--Records good. Flow occasionally regulated by Lake George Dam.

REVISIONS (WATER YEARS).--WSP 1337: 1953, drainage area. WSP 1507: 1956.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	112	169	40	20	205	90	25	19	11	30	13
2	39	102	143	40	18	163	83	32	26	10	22	13
3	33	155	134	42	18	133	74	35	20	10	19	13
4	27	196	112	47	46	109	68	35	17	9.8	18	19
5	33	177	103	43	493	100	62	38	15	26	17	32
6	46	154	84	41	680	106	59	138	16	29	16	174
7	48	124	73	34	552	118	58	142	57	23	15	210
8	51	103	68	29	313	107	57	106	44	40	14	114
9	79	97	66	27	180	96	48	73	29	113	14	61
10	93	114	64	28	118	94	48	53	22	109	18	40
11	79	130	88	28	88	85	47	51	29	94	20	28
12	66	121	129	27	82	91	44	52	45	66	21	23
13	64	106	148	28	75	171	40	50	46	48	16	20
14	249	91	137	29	58	252	41	41	31	29	12	18
15	489	88	117	28	49	394	40	38	22	26	11	15
16	426	79	105	26	45	442	39	32	18	22	11	15
17	287	70	90	24	64	368	36	29	16	19	11	16
18	185	65	96	24	213	279	34	24	16	17	11	15
19	135	61	101	25	455	339	34	21	56	17	11	19
20	113	72	96	23	613	455	32	16	83	17	13	26
21	102	74	89	23	453	413	31	14	61	19	11	27
22	94	73	84	23	313	327	34	14	42	23	11	24
23	82	46	84	24	300	252	36	14	30	26	11	20
24	70	56	67	24	275	195	32	15	23	45	26	16
25	62	62	64	25	216	161	30	14	22	57	97	17
26	56	55	56	27	225	142	26	11	20	46	75	21
27	53	66	53	26	310	128	26	11	19	35	40	25
28	69	109	49	24	289	118	32	11	16	33	24	24
29	154	167	45	23	-----	107	26	11	13	48	19	18
30	186	174	41	23	-----	97	26	11	12	55	15	17
31	147	-----	40	22	-----	91	-----	11	-----	41	13	-----
TOTAL	3,659	3,089	2,804	897	6,601	6,138	1,333	1,168	885	1,163.8	661	1,092
MEAN	118	103	90.5	28.9	236	198	44.4	37.7	29.5	37.5	21.3	36.4
MAX	489	186	169	47	680	455	90	142	83	113	97	210
MIN	27	46	40	22	18	85	26	11	12	9.8	11	13
CFSM	.94	.82	.72	.23	1.89	1.58	.36	.30	.24	.30	.17	.29
IN.	1.09	.92	.83	.27	1.56	1.83	.40	.35	.26	.35	.20	.32

CAL YR 1970 TOTAL 50,007.8 MEAN 137 MAX 2,580 MIN 9.0 CFSM 1.10 IN 14.88
WTR YR 1971 TOTAL 29,490.8 MEAN 80.8 MAX 680 MIN 9.8 CFSM .65 IN 8.78

PEAK DISCHARGE (BASE, 700 CFS).--Feb. 6 (2030) 742 cfs (8.48 ft).

04093200 Little Calumet River at Gary, Ind.

LOCATION.--Lat 41°34'19", long 87°19'13", in NE¼SE¼ sec.15, T.36 N., R.8 W., Lake County, on right bank at upstream side of bridge on Pennsylvania Railroad at Gary, 1.3 miles downstream from bridge on State Highway 53, and 1.5 miles upstream from confluence with Deep River.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--June 1958 to September 1967, October 1968 to September 30, 1971 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 580.00 ft above mean sea level.

AVERAGE DISCHARGE.--12 years, 16.3 cfs.

EXTREMES.--Current year: Maximum discharge, 53 cfs Mar. 21 (gage height, 7.72 ft); no flow Aug. 20-22.
Period of record: Maximum discharge, 250 cfs May 16, 1970 (gage height, 11.35 ft); no flow at times during most years.
Flood in October 1954 reached a stage of 13.09 ft, from floodmark.

REMARKS.--Records fair. During times of flood on Deep River, reverse flow may occur at the gage.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	21	16	17	1.7	1.5	25	9.8	2.8	20	1.6	2.3	4.4
2	19	16	16	2.0	1.2	22	11	4.1	12	.73	2.0	3.8
3	17	23	15	2.8	1.2	19	9.1	3.3	7.0	.41	2.5	4.1
4	15	24	15	5.0	3.5	16	8.1	3.0	4.5	.01	2.0	7.0
5	16	24	13	3.5	30	15	7.1	6.3	3.8	5.8	1.4	14
6	17	22	9.1	2.2	42	19	6.2	32	3.0	3.5	1.3	30
7	13	20	8.1	1.6	35	17	6.2	24	2.8	2.8	.93	29
8	15	18	7.4	1.8	28	14	5.9	22	3.3	10	.65	22
9	17	18	7.7	2.0	20	15	5.9	19	3.0	9.9	.65	17
10	15	20	6.8	2.7	15	14	6.2	16	3.8	7.1	1.9	14
11	15	19	18	3.4	10	13	5.3	16	6.5	5.6	5.3	12
12	15	18	18	3.7	8.2	15	5.3	20	8.1	4.1	2.0	8.8
13	15	16	18	3.7	7.3	18	5.3	16	7.7	3.3	1.8	8.1
14	36	16	17	3.5	7.0	20	4.4	13	6.8	2.6	1.4	5.9
15	40	16	15	2.5	6.6	37	4.4	9.8	4.7	2.3	1.1	4.4
16	41	15	15	1.5	6.6	42	4.4	8.4	3.5	1.8	.52	3.8
17	41	13	16	1.4	15	45	4.4	6.5	2.5	1.8	.32	4.7
18	39	14	16	1.4	16	44	3.5	5.9	2.8	.93	.17	4.1
19	33	11	16	1.4	21	48	3.5	5.3	15	1.1	.07	5.3
20	30	12	14	1.4	31	50	3.5	4.4	9.8	.73	0	7.4
21	26	11	12	1.9	34	50	3.8	3.5	8.8	.52	0	6.5
22	22	11	12	3.8	37	43	3.8	3.0	6.5	.41	0	5.5
23	19	12	12	4.6	32	38	4.1	2.7	4.7	1.6	.14	5.0
24	16	5.3	8.0	4.7	27	32	4.1	2.4	4.1	5.9	1.0	4.7
25	14	4.7	5.0	4.7	25	22	3.8	2.0	3.8	4.1	12	4.7
26	12	5.3	4.0	4.4	25	18	3.0	1.9	3.5	3.5	7.1	5.9
27	12	9.8	3.2	3.0	28	15	3.3	1.7	3.3	2.8	5.9	5.3
28	16	15	2.5	2.6	23	15	4.1	1.5	2.5	3.0	4.4	5.0
29	20	18	2.0	2.9	-----	14	4.4	1.4	2.0	3.0	3.3	4.7
30	18	17	1.8	2.9	-----	12	3.5	1.3	2.0	2.5	5.3	4.4
31	17	-----	1.7	2.4	-----	10	-----	1.3	-----	2.3	4.7	-----
TOTAL	661	460.1	342.3	87.1	537.1	777	157.4	260.5	170.8	94.04	72.15	261.6
MEAN	21.3	15.3	11.0	2.81	19.2	25.1	5.25	8.40	5.69	3.06	2.33	8.72
MAX	41	24	18	5.0	42	50	11	32	20	10	12	30
MIN	12	4.7	1.7	1.4	1.2	10	3.0	1.3	2.0	.01	0	3.8

CAL YR 1970 TOTAL 8,577.06 MEAN 23.5 MAX 247 MIN .72
WTR YR 1971 TOTAL 3,881.99 MEAN 10.6 MAX 50 MIN 0

04093500 Burns ditch at Gary, Ind.

LOCATION.--Lat 41°34'30", long 87°17'20", in SE¼NW¼ sec.13, T.36 N., R.8 W., Lake County, on left bank at downstream side of bridge on Central Avenue, 0.4 mile east of Gary, and 0.4 mile downstream from confluence of Deep River and Little Calumet River.

DRAINAGE AREA.--About 160 sq mi.

PERIOD OF RECORD.--October 1943 to current year (October 1950 to September 1955, high-water records only).

GAGE.--Water-stage recorder. Datum of gage is 577.04 ft above mean sea level. Prior to July 28, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years (1943-50, 1955 to current year) 135 cfs (11.54 inches per year).

EXTREMES.--Current year: Maximum discharge, 882 cfs Feb. 7 (gage height, 8.73 ft); minimum daily, 13 cfs June 30 to July 2.
Period of record: Maximum discharge, 3,430 cfs Oct. 11, 1954; maximum gage height, 16.44 ft Mar. 16, 1944, from graph based on gage readings; minimum daily discharge, 2.6 cfs Oct. 14, 1946.

REMARKS.--Records fair except those for periods of backwater from Lake Michigan, which are poor. Burns ditch is an artificial channel which reverses the direction of flow of part of Little Calumet River and flows into Lake Michigan at Wickliffe.

REVISIONS (WATER YEARS).--WSP 1034: 1944, WSP 1337: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	UCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	82	183	222	61	30	290	130	43	31	13	46	15
2	66	180	198	65	28	234	121	48	43	13	29	15
3	76	257	175	71	27	214	115	50	35	14	23	15
4	48	301	232	67	45	170	108	52	27	24	22	22
5	55	280	159	89	625	135	100	92	25	33	20	35
6	64	239	137	65	807	181	94	180	38	30	18	252
7	66	216	109	57	834	200	88	160	82	26	17	316
8	82	185	96	51	588	188	85	130	62	47	14	170
9	102	169	104	44	375	126	81	108	50	140	18	80
10	127	188	110	44	250	138	77	85	36	130	21	55
11	121	202	165	41	189	127	73	74	45	122	22	40
12	109	204	194	41	170	133	70	72	62	92	23	32
13	109	200	204	44	140	210	67	69	55	68	19	27
14	345	216	195	45	110	302	63	61	46	47	16	24
15	533	200	171	43	95	456	60	56	39	34	14	20
16	537	143	168	40	85	560	57	50	29	27	14	20
17	423	130	158	37	126	508	54	44	23	23	14	22
18	308	123	139	37	311	420	52	38	44	20	14	20
19	241	117	146	39	647	471	50	35	69	21	16	29
20	208	146	139	36	817	591	48	30	108	20	14	38
21	190	134	134	36	653	553	46	26	74	22	16	40
22	169	129	137	38	504	477	50	27	57	25	14	33
23	152	119	129	41	418	398	53	27	44	30	17	30
24	138	89	144	37	378	312	48	28	33	52	23	23
25	125	85	116	40	301	254	44	24	27	74	45	26
26	114	80	97	42	254	221	40	20	24	56	100	32
27	107	135	90	39	357	198	43	20	21	42	70	35
28	148	173	80	37	361	185	47	21	18	38	45	32
29	223	213	70	36	-----	140	41	21	15	54	25	27
30	263	231	63	35	-----	158	38	21	13	68	20	23
31	234	-----	55	32	-----	143	-----	21	-----	57	15	-----
TOTAL	5,565	5,267	4,336	1,450	9,605	8,733	2,043	1,733	1,275	1,462	784	1,548
MEAN	180	176	140	46.8	343	282	68.1	55.9	42.5	47.2	25.3	51.6
MAX	537	301	232	89	834	591	130	180	108	140	100	316
MIN	48	80	55	32	27	126	38	20	13	13	14	15
CFSM	1.13	1.10	.88	.29	2.14	1.76	.43	.35	.27	.30	.16	.32
IN.	1.29	1.22	1.01	.34	2.23	2.03	.47	.40	.30	.34	.18	.36

CAL YR 1970 TOTAL 68,866 MEAN 189 MAX 2,300 MIN 12 CFSM 1.18 IN 16.01
WTR YR 1971 TOTAL 43,801 MEAN 120 MAX 834 MIN 13 CFSM .75 IN 10.18

STREAMS TRIBUTARY TO LAKE MICHIGAN

04094000 Little Calumet River at Porter, Ind.

LOCATION.--Lat 41°37'18", long 87°05'13", in NE¼NE¼ sec. 34, T. 37 N., R. 6 W., Porter County, on right bank at downstream end of county road bridge, 200 ft upstream from bridge on U.S. Highway 20, 0.8 mile northwest of Porter, and 4.5 miles upstream from Salt Creek.

DRAINAGE AREA.--62.9 sq mi.

PERIOD OF RECORD.--May 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 603.48 ft above mean sea level. Prior to June 26, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 69.3 cfs (14.96 inches per year).

EXTREMES.--Current year: Maximum discharge, 708 cfs Feb. 6 (gage height, 7.62 ft); minimum daily, 23 cfs Sept. 3.
Period of record: Maximum discharge, 3,110 cfs Oct. 10, 1954 (gage height, 11.66 ft); minimum daily, 17 cfs Aug. 24, 1965.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1084: 1945. WSP 1337: 1946-47, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	63	91	41	31	98	67	38	38	32	32	26
2	37	61	82	41	31	82	69	43	40	29	30	24
3	36	115	73	42	30	75	64	47	38	28	23	23
4	35	174	70	46	50	68	58	37	37	24	29	26
5	36	135	65	44	208	66	58	29	36	36	28	40
6	52	100	59	41	568	73	59	78	44	45	27	123
7	46	82	55	39	431	93	60	199	131	38	26	173
8	42	72	54	38	210	83	54	180	219	58	26	96
9	50	67	54	37	95	75	49	106	84	78	25	65
10	51	75	54	38	78	70	48	83	56	58	30	50
11	45	76	69	37	70	67	45	108	47	47	45	40
12	42	70	92	37	66	71	45	77	51	37	36	34
13	45	65	89	38	63	113	48	63	46	34	32	30
14	105	60	79	38	61	145	52	56	41	29	29	28
15	182	60	67	36	60	191	50	55	38	28	29	28
16	143	59	61	35	60	213	49	48	37	30	26	27
17	81	59	62	35	75	147	48	48	35	33	26	26
18	64	59	66	36	165	106	46	46	33	29	25	27
19	57	57	71	35	272	132	48	42	38	29	24	28
20	54	62	66	34	308	230	45	42	36	29	26	37
21	52	69	57	35	234	201	44	39	37	27	25	39
22	51	62	54	36	128	135	45	37	37	26	25	34
23	46	54	56	36	179	101	44	42	40	27	26	30
24	49	49	56	38	145	83	43	42	37	54	27	28
25	47	46	49	39	106	74	47	39	36	48	40	29
26	46	46	47	38	124	71	44	42	39	42	33	32
27	46	57	46	36	161	68	42	39	37	38	31	36
28	57	93	44	34	151	66	43	38	32	40	33	34
29	95	117	43	33	-----	67	44	35	31	62	31	30
30	95	104	42	32	-----	65	33	36	31	51	29	29
31	73	-----	42	32	-----	65	-----	36	-----	38	27	-----
TOTAL	1,899	2,270	1,915	1,157	4,164	3,184	1,498	1,850	1,492	1,204	906	1,273
MEAN	61.3	75.7	61.8	37.3	149	103	49.9	59.7	40.4	38.8	29.2	42.4
MAX	182	174	92	46	568	230	69	199	219	78	45	173
MIN	35	46	42	32	30	65	38	29	31	24	24	23
CFSM	.97	1.20	.98	.59	2.37	1.64	.79	.95	.79	.62	.46	.67
IN.	1.12	1.34	1.13	.68	2.46	1.88	.89	1.09	.88	.71	.54	.75

CAL YR 1970 TOTAL 28,810 MEAN 78.9 MAX 771 MIN 22 CFSM 1.25 IN 17.04
WTR YR 1971 TOTAL 22,802 MEAN 62.5 MAX 568 MIN 23 CFSM .99 IN 13.49

PEAK DISCHARGE (BASE, 700 CFS).--Feb. 6 (1300) 708 cfs (7.62 ft).

04094500 Salt Creek near McCool, Ind.

LOCATION.--Lat 41°35'48", long 87°08'40", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 6, T.36 N., R.6 W., Porter County, on left bank on downstream side of highway bridge, 50 ft downstream from New York Central Railroad bridge, 1.2 miles north of McCool, and 1.5 miles upstream from Little Calumet River.

DRAINAGE AREA.--78.7 sq mi.

PERIOD OF RECORD.--May 1945 to current year.

GAGE.--Water-stage recorder. Datum of gage is 594.10 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 25, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--26 years, 69.1 cfs (11.92 inches per year).

EXTREMES.--Current year: Maximum daily discharge, 780 cfs Feb. 6; minimum daily, 27 cfs July 21, 22.
Period of record: Maximum discharge, 3,180 cfs Oct. 11, 1954 (gage height, 14.12 ft); minimum daily, 14 cfs Sept. 8, 1964.

REMARKS.--Records fair.

REVISIONS (WATER YEARS).--WSP 1337: 1946-48(M), 1950(M), drainage area. WSP 1911: 1958.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	42	76	96	42	33	104	61	43	34	37	32	30
2	41	78	85	42	33	78	65	46	35	32	30	30
3	38	180	70	43	34	63	61	55	35	30	30	20
4	37	169	69	51	63	50	55	48	33	29	31	30
5	42	140	59	45	446	47	52	55	32	51	30	47
6	92	108	52	39	780	69	50	219	38	61	30	235
7	61	88	46	37	550	126	49	192	100	39	29	294
8	53	74	45	37	370	88	50	106	190	64	29	143
9	86	72	47	37	120	66	48	77	100	47	28	94
10	80	94	48	38	95	65	47	63	55	65	33	51
11	65	94	83	38	76	63	46	63	42	50	52	43
12	55	79	116	39	70	76	47	74	45	30	40	33
13	61	71	107	40	68	135	50	61	42	34	33	35
14	215	62	90	40	66	155	50	53	37	30	31	33
15	280	50	72	39	66	192	48	49	34	29	30	31
16	249	66	66	32	66	189	46	46	33	31	29	30
17	144	68	67	35	77	136	48	43	32	34	28	30
18	99	78	73	35	99	104	43	42	30	30	28	31
19	81	75	75	32	299	162	46	40	33	30	28	31
20	76	101	67	34	384	212	45	38	32	29	28	53
21	74	105	59	38	254	153	46	35	33	27	28	55
22	69	80	58	39	174	116	49	33	33	27	28	42
23	67	64	50	39	382	94	46	36	34	28	29	35
24	64	49	53	39	205	80	45	37	34	55	31	34
25	61	44	44	40	132	72	44	35	33	50	109	34
26	61	44	46	42	178	68	44	37	34	43	71	49
27	58	56	50	30	278	65	43	36	33	37	45	50
28	81	132	44	35	173	65	46	34	31	43	42	45
29	155	145	42	35	-----	63	45	32	30	63	33	30
30	124	122	41	34	-----	60	44	32	29	41	31	34
31	92	-----	42	33	-----	58	-----	32	-----	36	30	-----
TOTAL	2,803	2,664	1,971	1,179	5,481	3,074	1,464	1,702	1,336	1,220	1,105	1,870
MEAN	90.4	88.8	63.6	38.0	196	99.2	48.8	57.8	44.5	41.6	35.6	60.0
MAX	280	180	116	51	780	212	65	219	190	97	109	294
MIN	37	44	41	30	33	47	43	32	29	27	28	29
CFSM	1.15	1.13	.81	.48	2.49	1.26	.62	.73	.57	.53	.45	.76
IN.	1.32	1.26	.93	.56	2.59	1.45	.67	.85	.63	.61	.52	.85

CAL YR 1970 TOTAL 31,522 MEAN 86.4 MAX 900 MIN 29 CFSM 1.10 IN 14.90
WTR YR 1971 TOTAL 25,099 MEAN 71.1 MAX 780 MIN 27 CFSM .90 IN 12.27

PEAK DISCHARGE (BASE, 600 CFS).--Feb. 6 (time and discharge unknown).

NOTE.--No gage height record Feb. 6-17.

STREAMS TRIBUTARY TO LAKE MICHIGAN

04095300 Trail Creek at Michigan City, Ind.

LOCATION.--Lat 41°43'00", long 86°51'35", in SW¼NE¼ sec.27, T.38 N., R.4 W., LaPorte County, on left downstream wingwall of bridge on Springland Avenue in Michigan City, 1.0 mile upstream from Otter Creek, and 4.2 miles upstream from mouth.

DRAINAGE AREA.--54.1 sq mi.

PERIOD OF RECORD.--June 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 584.02 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 560 cfs Feb. 5 (gage height, 7.25 ft); minimum daily, 21 cfs July 20.

Period of record: Maximum discharge, 602 cfs May 15, 1970 (gage height, 7.55 ft); minimum daily, 21 cfs July 20, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	52	89	44	30	68	57	41	40	25	26	31
2	37	66	76	45	30	60	58	44	40	35	33	30
3	35	179	66	47	30	54	55	46	37	34	29	30
4	34	132	68	48	60	50	53	43	35	27	28	30
5	42	100	60	48	464	51	53	47	34	25	27	31
6	48	76	52	47	267	68	53	143	40	36	27	35
7	39	60	50	45	163	86	52	90	59	44	27	40
8	38	52	49	42	122	64	52	59	36	29	28	120
9	43	55	50	41	90	61	50	52	33	26	30	66
10	40	74	49	40	68	65	49	48	32	38	44	53
11	38	68	95	39	62	59	46	50	34	32	40	41
12	38	59	110	39	60	75	47	56	35	27	32	38
13	41	54	98	39	58	128	49	49	31	23	31	38
14	131	50	77	40	50	129	47	46	30	22	30	36
15	120	50	61	41	45	150	46	42	30	24	29	35
16	73	50	60	41	43	129	46	40	29	23	29	35
17	54	50	62	40	56	93	45	39	28	26	30	35
18	51	49	75	39	125	81	43	38	27	24	29	34
19	48	47	79	38	167	107	43	37	28	23	28	33
20	48	69	66	37	198	171	43	37	28	21	28	33
21	49	67	55	36	116	111	45	37	36	27	28	42
22	47	55	54	35	103	88	47	36	35	31	32	40
23	46	46	57	34	115	74	44	36	30	31	34	37
24	45	44	52	34	85	69	42	37	41	25	35	35
25	43	43	50	36	80	66	41	40	34	30	33	37
26	42	44	48	40	100	65	41	38	30	38	46	44
27	42	79	46	39	125	62	41	38	36	33	39	61
28	64	159	45	35	87	62	42	36	29	33	32	42
29	115	131	44	33	-----	61	41	36	27	30	33	36
30	80	107	43	33	-----	58	41	35	26	27	31	33
31	59	-----	43	32	-----	57	-----	34	-----	27	31	-----
TOTAL	1,668	2,167	1,929	1,227	2,999	2,522	1,412	1,450	1,010	896	977	1,231
MEAN	53.8	72.2	62.2	35.6	107	81.4	47.1	46.8	33.7	28.9	31.5	41.0
MAX	131	179	110	48	464	171	58	143	59	44	46	120
MIN	34	43	43	32	30	50	41	34	26	21	26	30
CFSM	.99	1.33	1.15	.73	1.98	1.50	.87	.87	.62	.53	.58	.76
IN.	1.15	1.49	1.33	.84	2.06	1.73	.97	1.00	.69	.62	.67	.85

CAL YR 1970 TOTAL 23,641 MEAN 64.8 MAX 482 MIN 23 CFSM 1.20 IN 16.26
 WTR YR 1971 TOTAL 19,488 MEAN 53.4 MAX 464 MIN 21 CFSM .99 IN 13.40

PEAK DISCHARGE (BASE, 200 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0915	7.25	560	03-19	2045	4.52	220
02-19	2230	4.36	203				

04096100 Galena River near LaPorte, Ind.

LOCATION.--Lat 41°44'54", long 86°40'30", in SE 1/4 sec. 17, T.38 N., R.2 W., LaPorte County, on left bank at downstream side of bridge on County Road 125 East, 1.3 miles upstream from Indiana-Michigan State line, and 9.8 miles north of Courthouse in LaPorte.

DRAINAGE AREA.--17.2 sq mi.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 625.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, about 200 cfs Feb 5 (gage height, unknown); minimum daily, 8.1 cfs July 4.
Period of record: Maximum discharge, about 200 cfs Feb. 5, 1971 (gage height, unknown); minimum daily, 6.9 cfs Aug. 31, 1970.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	21	33	17	12	34	23	14	14	10	12	11
2	17	27	29	16	12	30	23	16	14	9.4	10	10
3	16	52	28	16	12	28	22	16	13	8.6	12	10
4	15	39	28	20	23	26	21	15	12	8.1	12	12
5	18	35	26	26	180	26	21	16	12	14	11	17
6	20	28	25	26	100	33	20	46	13	14	10	49
7	17	24	25	23	70	36	20	30	23	11	10	46
8	17	22	24	19	45	31	20	23	16	12	10	28
9	20	25	24	17	35	33	21	19	14	13	10	22
10	19	30	22	16	27	30	21	18	13	12	14	19
11	17	26	37	16	24	29	19	19	14	12	25	17
12	17	24	36	16	23	34	18	20	15	10	15	15
13	18	22	32	16	22	48	17	18	17	9.5	12	15
14	51	20	28	16	20	48	18	17	17	8.6	11	15
15	49	19	25	16	18	56	17	16	16	9.5	11	14
16	29	21	26	16	17	44	17	15	12	11	10	14
17	24	19	27	16	27	37	17	15	9.7	11	9.7	14
18	21	19	30	16	46	36	18	14	9.2	10	9.4	14
19	20	20	30	15	58	54	17	14	9.4	10	9.2	16
20	20	27	25	15	76	48	16	13	9.2	11	9.0	28
21	21	25	23	14	48	39	17	13	10	9.8	8.9	24
22	19	22	23	14	44	34	19	13	10	9.4	9.2	19
23	19	19	25	14	47	30	17	13	9.8	9.4	12	17
24	18	19	23	14	38	29	16	13	10	18	11	16
25	17	20	21	14	38	29	15	14	10	14	14	17
26	15	22	20	15	45	28	15	14	10	14	13	21
27	15	36	19	15	51	27	15	14	9.8	13	17	31
28	27	55	18	14	37	27	15	13	9.2	17	15	24
29	49	44	18	13	-----	25	15	13	8.6	22	12	20
30	31	38	17	13	-----	24	16	13	8.9	15	11	19
31	24	-----	17	13	-----	23	-----	12	-----	14	11	-----
TOTAL	698	820	784	507	1,195	1,056	546	519	368.8	370.3	366.4	594
MEAN	22.5	27.3	25.3	16.4	42.7	34.1	18.2	16.7	12.3	11.9	11.3	19.9
MAX	51	55	37	26	180	56	23	46	23	22	25	49
MIN	15	19	17	13	12	23	15	12	8.6	8.1	8.9	10
CFSM	1.31	1.59	1.47	.95	2.48	1.98	1.06	.97	.72	.69	.69	1.15
IN.	1.51	1.77	1.70	1.10	2.58	2.28	1.18	1.12	.80	.80	.79	1.28

CAL YR 1970 TOTAL 8,904.0 MEAN 24.4 MAX 115 MIN 6.9 CFSM 1.42 IN 19.26
WTR YR 1971 TOTAL 7,824.5 MEAN 21.4 MAX 180 MIN 8.1 CFSM 1.24 IN 16.92

PEAK DISCHARGE (BASE, 75 CFS).--Feb. 5 (unknown) 200 cfs (unknown). Feb. 20 (0430) 86 cfs (4.44 ft).

NOTE.--No gage-height record Jan. 24 to Feb. 10.

STREAMS TRIBUTARY TO LAKE MICHIGAN

04097970 Lime Lake Outlet at Panama, Ind.

LOCATION.--Lat 41°42'46", long 85°07'10", in NW¼NW¼ sec.35, T.38 N., R.12 E., Steuben County, on right bank 10 ft downstream from dam for Lime Lake, 30 ft upstream from bridge on Orland Road, and 0.7 mile northwest of Panama.

DRAINAGE AREA.--17.5 sq mi.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 950.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 18 cfs Oct. 29 (gage height, 4.09 ft); no flow for several days.

Period of record: Maximum discharge, 26 cfs Apr. 20, 1970 (gage height, 4.38 ft); no flow for several days in 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.5	14	8.4	6.5	6.0	14	12	.13	.52	.10	.12	.01
2	1.3	13	8.2	6.5	6.2	14	12	.10	.81	.07	.11	0
3	1.2	13	8.2	6.7	6.2	14	12	.10	.84	.05	.09	.01
4	1.0	12	8.2	6.9	6.4	14	12	.11	.88	0	.08	.01
5	1.0	12	8.1	6.5	8.5	14	11	.10	.90	0	.07	.01
6	.55	11	7.9	6.7	8.9	14	11	.22	1.1	0	.06	.02
7	.55	10	7.7	6.7	9.2	14	11	.27	1.0	0	.06	.02
8	.55	10	7.7	6.6	9.2	14	11	.28	.96	0	.05	0
9	1.7	10	7.5	6.4	9.2	14	10	.30	.84	0	.07	0
10	2.6	11	7.5	6.6	9.2	14	10	.36	.76	0	.18	0
11	2.3	10	7.7	6.5	9.3	14	10	.42	.68	0	.39	0
12	2.2	10	7.7	6.4	10	14	9.7	.38	.56	.02	.49	0
13	2.3	9.8	7.9	6.3	10	14	9.5	.35	.48	.05	.47	0
14	4.1	5.6	7.9	6.2	10	14	9.5	.41	.42	.06	.43	0
15	4.3	9.2	7.5	6.4	10	15	9.3	.49	.35	.10	.34	.01
16	3.5	9.0	7.9	6.2	10	16	9.2	.45	.30	.30	.23	0
17	3.6	8.8	7.9	6.2	11	16	9.5	.54	.20	.77	.23	0
18	3.3	8.6	7.9	6.2	11	16	9.9	.54	.15	.69	.22	0
19	3.1	8.4	7.5	6.3	12	15	9.8	.49	.13	.53	.26	0
20	3.3	8.6	7.7	6.2	13	15	9.7	.38	.11	1.2	.24	0
21	3.3	8.6	7.7	6.1	13	15	9.6	.31	.10	3.6	.21	0
22	2.8	8.2	7.7	6.0	14	14	9.4	.29	.09	4.1	.19	.01
23	2.8	7.9	7.7	6.0	14	14	9.3	.34	.08	4.1	.12	0
24	3.1	7.5	7.5	6.0	14	14	8.9	.54	.08	5.3	.12	0
25	3.8	7.5	7.5	6.0	14	13	8.7	.59	.09	3.9	.07	0
26	4.5	7.3	7.3	6.0	15	13	8.6	.43	.11	.22	.04	0
27	5.1	7.3	7.3	5.9	15	13	8.5	.42	.13	.18	.01	0
28	6.2	8.1	7.3	5.9	14	12	8.4	.41	.16	.16	.01	.02
29	11	8.2	7.1	6.2	-----	12	8.3	.40	.18	.16	.01	.01
30	16	8.4	7.1	6.1	-----	12	5.0	.42	.16	.14	.02	0
31	15	-----	6.5	6.0	-----	12	-----	.46	-----	.12	.01	-----
TOTAL	119.15	287.0	238.9	196.4	298.3	433	292.8	11.03	13.17	25.92	5.00	.13
MEAN	3.84	9.57	7.71	6.34	10.7	14.0	9.76	.36	.44	.84	.16	.004
MAX	16	14	8.4	6.9	15	16	12	.59	1.1	5.3	.49	.02
MIN	.55	7.3	6.5	5.9	6.0	12	5.0	.10	.08	0	.01	0
CFSM	.22	.55	.44	.36	.61	.80	.56	.02	.03	.05	.009	.0002
IN.	.25	.61	.51	.42	.63	.92	.62	.02	.03	.06	.01	0
CAL YR 1970	TOTAL 2,055.84	MEAN 5.63	MAX 21	MIN .65	CFSM .32	IN 4.37						
WTR YR 1971	TOTAL 1,920.80	MEAN 5.26	MAX 16	MIN 0	CFSM .30	IN 4.08						

04099500 Pigeon Creek at Hxgback Lake Outlet near Angola, Ind.

LOCATION.--Lat 41°37'24", long 85°05'44", in NE¼NW¼ sec.36, T 37 N., R.12 E., Steuben County, on right bank 200 ft north of lake outlet, 2 miles southeast of Flint, and 5.1 miles west of Angola.

DRAINAGE AREA.--102 sq mi.

PERIOD OF RECORD.--October 1945 to current year. Prior to October 1947, published as "near Flint."

GAGE.--Water-stage recorder. Datum of gage is 940.00 ft above mean sea level. Prior to October 1947, nonrecording gage at site 1.5 miles downstream at different datum. October 1947 to Aug. 3, 1953, nonrecording gage at site 600 ft downstream at same datum.

AVERAGE DISCHARGE.--26 years, 72.1 cfs (9.60 inches per year).

EXTREMES.--Current year: Maximum discharge, 274 cfs Feb. 25 (gage height, 12.71 ft); minimum daily, 7.3 cfs Sept. 16.
Period of record: Maximum discharge, 744 cfs Apr. 8, 1950 (gage height, 14.95 ft); minimum daily, 3.4 cfs Oct. 25-27, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1144: 1948. WSP 1337: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	27	66	46	20	263	101	49	35	17	16	8.3
2	19	28	75	45	19	253	100	48	36	16	16	8.5
3	19	28	82	43	18	237	99	47	38	16	16	8.3
4	18	29	87	44	19	221	99	46	40	15	15	8.5
5	17	30	90	42	32	204	99	45	42	16	14	9.0
6	16	31	88	41	47	188	98	48	43	16	14	9.0
7	15	31	85	40	73	177	95	51	43	16	13	9.3
8	15	31	81	39	103	167	92	54	42	16	13	9.3
9	16	32	77	37	128	155	88	56	40	16	12	9.3
10	17	33	74	36	139	146	86	57	38	15	12	9.3
11	18	33	71	35	139	138	82	57	37	15	14	9.0
12	19	34	69	34	139	131	80	56	35	15	13	8.5
13	20	34	67	33	134	127	78	54	34	15	12	8.5
14	23	35	65	33	124	127	77	52	33	14	12	8.3
15	25	35	63	32	111	139	76	50	31	14	12	8.0
16	26	35	61	31	106	165	75	48	30	14	12	7.3
17	27	35	60	30	104	185	73	46	29	14	11	11
18	27	35	58	29	102	201	72	44	27	14	11	11
19	28	34	58	28	116	209	71	42	26	16	10	11
20	28	35	57	27	158	209	69	40	25	17	10	12
21	28	36	58	26	202	204	67	38	24	17	9.5	13
22	28	37	59	25	229	195	66	36	24	17	9.5	13
23	28	38	61	25	248	182	64	35	23	17	9.0	13
24	28	39	61	24	265	172	61	35	22	17	9.0	13
25	28	39	61	24	272	160	59	36	22	18	8.5	13
26	28	40	59	23	268	148	57	36	21	17	8.5	13
27	27	41	58	22	269	136	55	36	20	17	8.3	13
28	27	44	56	22	268	126	54	37	19	17	8.0	14
29	27	49	53	21	-----	118	52	37	18	17	7.8	14
30	28	57	51	21	-----	111	50	36	17	17	7.8	14
31	28	-----	49	20	-----	104	-----	36	-----	17	7.8	-----
TOTAL	718	1,065	2,060	978	3,852	5,298	2,295	1,388	914	495	351.7	316.4
MEAN	23.2	35.5	66.5	31.5	138	171	76.5	44.8	30.5	16.0	11.3	10.5
MAX	28	57	90	46	272	263	101	57	43	18	16	14
MIN	15	27	49	20	18	104	50	35	17	14	7.8	7.3
CFSM	.23	.35	.65	.31	1.35	1.68	.75	.44	.30	.16	.11	.10
IN.	.26	.39	.75	.36	1.40	1.93	.84	.51	.33	.18	.13	.12
CAL YR 1970	TOTAL	21,867.0	MEAN	59.9	MAX	231	MIN	14	CFSM	.59	IN	7.98
WTR YR 1971	TOTAL	19,731.1	MEAN	54.1	MAX	272	MIN	7.3	CFSM	.53	IN	7.20

STREAMS TRIBUTARY TO LAKE MICHIGAN

04099610 Pretty Lake Inlet near Stroh, Ind.

LOCATION.--Lat 41°34'49" (revised), long 85°14'59", in SW 1/4 sec. 15, T.36 N., R.11 E., Lagrange County, on left bank 400 ft upstream from mouth and 2.6 miles west of Stroh.

DRAINAGE AREA.--1.96 sq mi.

PERIOD OF RECORD.--June 1963 to current year.

GAGE.--Water-stage recorder with steel V-notch weir (0.5 cfs notch capacity). Datum of gage is 960.00 ft above mean sea level.

AVERAGE DISCHARGE.--8 years, 0.46 cfs (3.19 inches per year).

EXTREMES.--Current year: Maximum discharge, 33 cfs Feb. 5 (gage height, 9.30 ft); maximum gage height, 9.46 ft Feb. 4 (backwater from ice); minimum daily discharge, 0.02 cfs Sept. 18.

Period of record: Maximum discharge, 33 cfs Feb. 5, 1971 (gage height, 9.30 ft); maximum gage height, 9.46 ft Feb. 4, 1971 (backwater from ice); no flow for many days in most years.

REMARKS.--Records good except those for January and February, which are fair.

REVISIONS.--WSP 1911: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.16	.19	.83	.13	.04	1.2	.58	.25	.21	.08	.06	.05
2	.13	.22	.68	.12	.04	1.1	.67	.29	.63	.08	.06	.04
3	.12	.40	.45	.12	.03	.95	.58	.29	.37	.08	.06	.08
4	.12	.35	.45	.42	3.5	.83	.95	.27	.27	.10	.06	.08
5	.12	.23	.40	.22	16	.72	.42	.30	.20	.16	.06	.06
6	.11	.20	.33	.41	10	.78	.42	1.8	.22	.12	.05	.06
7	.11	.17	.31	.91	3.5	.95	.42	.89	.22	.09	.05	.06
8	.11	.22	.29	.42	1.3	.72	.37	.67	.20	.10	.05	.04
9	.20	.16	.29	.15	.64	.72	.40	.54	.17	.13	.05	.04
10	.31	.31	.27	.09	.56	.54	.37	.45	.15	.09	.06	.04
11	.20	.29	.27	.08	.50	.45	.35	.40	.15	.09	.08	.03
12	.19	.25	.37	.07	2.5	.40	.37	.37	.15	.08	.06	.03
13	.17	.20	.33	.07	.62	.45	.40	.35	.12	.08	.06	.04
14	.37	.19	.33	.08	.38	.48	.54	.31	.12	.06	.06	.03
15	.33	.17	.29	.12	.31	.95	.48	.29	.12	.06	.06	.03
16	.25	.16	.29	.11	.26	1.2	.45	.25	.10	.08	.06	.04
17	.20	.16	.25	.11	4.0	1.1	.42	.23	.10	.08	.05	.07
18	.19	.15	.25	.11	1.6	.78	.40	.20	.09	.07	.04	.02
19	.17	.15	.45	.10	3.1	.72	.35	.20	.09	.09	.04	.03
20	.17	.44	.45	.09	4.5	.72	.33	.20	.08	.08	.05	.08
21	.19	.48	.35	.09	1.5	.67	.37	.19	.09	.08	.04	.04
22	.17	.33	.33	.08	1.5	.54	.37	.17	.09	.07	.04	.03
23	.16	.20	.31	.07	1.5	.54	.33	.28	.08	.06	.04	.03
24	.16	.16	.23	.07	1.2	.58	.31	.25	.08	.09	.04	.03
25	.16	.16	.22	.07	1.2	.67	.29	.31	.08	.08	.04	.04
26	.15	.15	.19	.07	2.0	.48	.27	.52	.08	.09	.04	.04
27	.15	.22	.18	.06	1.9	.45	.25	.22	.07	.08	.05	.04
28	.13	1.1	.17	.06	1.2	.45	.29	.20	.08	.08	.04	.03
29	.31	.83	.16	.05	-----	.48	.29	.22	.08	.08	.05	.03
30	.31	.89	.15	.05	-----	.42	.27	.16	.08	.07	.04	.03
31	.22	-----	.14	.05	-----	.42	-----	.13	-----	.06	.04	-----
TOTAL	5.84	9.13	10.01	4.65	65.38	21.46	12.31	11.20	4.57	2.64	1.58	1.29
MEAN	.19	.30	.32	.15	2.34	.69	.41	.36	.15	.085	.051	.043
MAX	.37	1.1	.83	.91	16	1.2	.95	1.8	.63	.16	.08	.08
MIN	.11	.15	.14	.05	.03	.40	.25	.13	.07	.06	.04	.02
CF5M	.10	.15	.16	.08	1.19	.35	.21	.18	.08	.04	.03	.02
IN.	.11	.17	.19	.09	1.24	.41	.23	.21	.09	.05	.03	.02
CAL YR 1970	TOTAL 277.48	MEAN .76	MAX 11	MIN .10	CF5M .39	IN 5.27						
WTR YR 1971	TOTAL 150.06	MEAN .41	MAX 16	MIN .02	CF5M .21	IN 2.85						

04099750 Pigeon River near Scott, Ind.

LOCATION.--Lat 41°44'56", long 85°34'35", in SE 1/4 (revised) sec. 14, T. 38 N., R. 8 E., Lagrange County, on right bank 20 ft downstream from bridge on County Road 750 North, 1,200 ft downstream from Page ditch, 0.7 mile south of Indiana-Michigan state line, and 1.2 miles northwest of Scott.

DRAINAGE AREA.--373 sq mi.

PERIOD OF RECORD.--June 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 815.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 1,170 cfs Feb. 7 (gage height, 5.62 ft); minimum daily, 65 cfs Aug. 15.

Period of record: Maximum discharge, 1,450 cfs Feb. 1, 1969 (gage height, 6.34 ft); minimum daily, 65 cfs Aug. 15, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	220	371	230	160	763	429	240	182	120	111	68
2	164	215	353	220	170	723	429	238	207	113	107	68
3	158	254	350	210	180	685	426	245	226	108	106	74
4	152	267	355	210	190	650	408	235	213	104	107	82
5	149	251	358	200	555	625	393	235	199	115	110	77
6	146	237	343	200	871	618	381	280	199	134	115	83
7	143	229	336	364	1,130	636	372	308	210	128	109	89
8	138	223	331	365	900	629	363	283	205	119	103	84
9	154	223	325	328	600	569	353	268	199	123	103	78
10	211	239	318	289	550	545	340	263	192	119	116	79
11	223	258	335	263	520	517	333	260	188	114	160	78
12	196	250	349	244	500	496	325	273	183	108	151	82
13	188	241	343	227	480	499	323	263	181	102	120	82
14	270	234	329	218	460	534	333	253	174	96	95	83
15	349	230	314	213	450	608	328	245	169	95	65	80
16	291	226	308	206	440	681	315	238	164	103	79	79
17	245	223	309	206	500	681	310	228	158	116	97	83
18	225	221	303	198	600	632	308	224	154	119	102	87
19	216	218	314	200	727	632	300	219	150	110	95	83
20	212	244	336	200	839	646	293	212	159	139	89	98
21	215	281	332	190	879	646	290	207	160	148	86	117
22	215	277	316	190	815	636	288	201	148	131	92	106
23	175	254	311	150	707	622	280	196	132	117	83	94
24	177	243	303	180	688	594	273	196	134	118	78	88
25	193	234	286	180	688	569	265	214	134	133	75	86
26	188	241	270	170	719	545	260	217	132	129	74	92
27	187	254	270	170	787	520	255	207	132	119	73	97
28	193	220	260	170	803	503	258	200	127	115	72	98
29	236	396	250	160	-----	485	253	193	125	119	71	92
30	261	390	240	160	-----	464	248	188	121	119	67	86
31	242	-----	230	160	-----	441	-----	184	-----	115	67	-----
TOTAL	6,277	7,557	5,748	6,711	16,908	18,394	9,732	7,213	5,057	3,648	2,978	2,573
MEAN	202	253	314	216	604	593	324	233	169	118	96.1	85.8
MAX	349	396	371	365	1,130	763	429	308	226	148	160	117
MIN	138	218	230	160	160	441	248	184	121	95	65	68
CFSM	.54	.68	.84	.58	1.62	1.59	.87	.62	.45	.32	.26	.23
IN.	.63	.76	.57	.67	1.69	1.83	.97	.72	.50	.36	.30	.26
CAL YR 1970	TOTAL	108,688	MEAN	298	MAX	949	MIN	113	CFSM	.80	IN	10.84
WTR YR 1971	TOTAL	96,836	MEAN	265	MAX	1,130	MIN	65	CFSM	.71	IN	9.66

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100220 North Branch Elkhart River near Cosperville, Ind.

LOCATION.--Lat 41°29'32", long 85°26'54", in SW1/4 sec. 14, T.35 N., R.9 E., Noble County, at downstream side of county road bridge over outlet of Waldron Lake at extreme west end of lake, 1.5 miles northeast of Cosperville, and 6.6 miles northwest of Albion.

DRAINAGE AREA.--134 sq mi (revised).

PERIOD OF RECORD.--October 1950 to September 1971 (discontinued).

GAGE.--Nonrecording gage read twice daily. Datum of gage is 880.00 ft above mean sea level.

AVERAGE DISCHARGE.--21 years, 106 cfs (10.74 inches per year).

EXTREMES --Current year: Maximum discharge, 309 cfs Feb. 21 (gage height, 7.42 ft); minimum daily, 4.9 cfs Sept. 15, 16, 19.

Period of record: Maximum discharge observed, 717 cfs May 13, 1956 (gage height, 8.78 ft); minimum daily, 2.2 cfs Sept. 17, 18, 21, 1959.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	40	47	118	70	38	276	148	53	47	28	23	5.3
2	35	51	117	68	37	267	150	49	54	27	20	5.8
3	34	55	117	67	40	248	149	49	58	21	18	6.2
4	31	61	115	64	50	235	146	51	56	20	17	6.7
5	23	60	111	61	179	226	138	49	54	28	14	5.8
6	33	59	107	60	263	230	133	88	50	28	12	6.7
7	31	59	103	60	281	228	127	109	48	27	12	7.6
8	30	56	95	59	277	224	120	110	47	27	11	9.9
9	36	54	95	58	240	211	115	110	46	23	9.9	8.6
10	45	57	95	56	220	204	111	108	46	20	9.2	7.6
11	48	62	95	55	200	194	105	105	42	19	12	7.1
12	48	64	99	54	190	187	99	101	41	19	11	7.1
13	48	64	97	52	190	184	98	96	39	17	9.9	6.7
14	56	62	96	52	180	193	98	91	38	14	9.9	5.3
15	61	61	93	50	180	201	94	87	37	13	9.9	4.9
16	62	58	95	49	170	225	89	81	36	13	9.2	4.9
17	58	57	91	48	175	230	89	79	31	14	8.6	5.3
18	56	55	89	47	204	223	87	73	27	14	8.6	5.3
19	52	53	90	47	252	223	81	67	22	15	7.6	4.9
20	52	61	95	47	303	216	77	62	18	14	7.6	7.6
21	51	75	97	46	309	222	75	58	20	13	6.7	8.6
22	50	77	95	45	306	218	69	55	20	12	6.7	9.2
23	48	75	93	44	298	216	67	53	20	12	6.2	8.6
24	46	73	87	43	290	206	63	50	20	19	6.2	7.6
25	46	71	85	43	293	199	60	55	20	20	7.6	8.0
26	45	65	87	42	306	191	59	62	20	29	8.0	9.9
27	43	68	83	41	305	184	57	65	19	27	7.6	9.9
28	43	83	81	41	288	178	55	59	18	27	6.7	9.9
29	48	95	77	40	-----	170	55	55	20	29	6.7	9.9
30	52	113	75	40	-----	162	53	52	27	26	5.8	9.2
31	50	-----	73	39	-----	154	-----	50	-----	25	5.8	-----
TOTAL	1,411	1,963	2,954	1,588	6,064	6,525	2,866	2,232	1,041	640	314.4	220.1
MEAN	45.5	65.4	95.3	51.2	217	210	95.5	72.0	34.7	20.6	10.1	7.34
MAX	62	113	118	70	309	276	150	110	58	29	23	9.9
MIN	30	47	73	39	37	154	53	49	18	12	5.8	4.9
CFSM	.34	.49	.71	.38	1.62	1.57	.71	.54	.26	.15	.08	.05
IN.	.29	.54	.82	.44	1.68	1.81	.80	.62	.29	.18	.09	.06

CAL YR 1970 TOTAL 31,240.8 MEAN 85.6 MAX 303 MIN 8.0 CFSM .64 IN 8.67
 WTR YR 1971 TOTAL 27,818.5 MEAN 76.2 MAX 309 MIN 4.9 CFSM .57 IN 7.72

04100252 Forker Creek near Burr Oak, Ind.

LOCATION.--Lat 41°19'58", long 85°25'25", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec. 12, T.33 N., R.9 E., Noble County, on right bank 300 ft downstream from bridge on State Highway 9, 400 ft downstream from Miller Lake outlet, 0.8 mile northwest of Burr Oak, and 4.5 miles south of Albion.

DRAINAGE AREA.--19.2 sq mi.

PERIOD OF RECORD.--June 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 889.00 ft above mean sea level (Indiana State Highway Commission bench mark).

EXTREMES.--Current year: Maximum discharge, 110 cfs Feb. 21 (gage height, 3.78 ft); minimum daily, 0.18 cfs July 28 to Aug. 2. Period of record: Maximum discharge, 110 cfs Feb. 21, 1971 (gage height, 3.78 ft); minimum daily, 0.18 cfs July 28 to Aug. 2, 1971.

CORRECTIONS.--The maximum discharge for period of record published in Water Resources Data for Indiana, 1970 is 99 cfs Apr. 22, 1970 (gage height, 3.60 ft); the previously published figure was in error.

REMARKS.--Records fair. Occasional regulation at Miller Lake outlet.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.5	5.0	31	7.0	2.2	50	14	4.4	11	.92	.18	.36
2	3.3	5.7	32	6.6	2.1	42	14	5.0	13	.67	.18	.36
3	7.9	8.0	31	6.3	2.1	34	14	5.0	13	.51	.20	.32
4	2.5	8.7	29	7.3	5.7	27	14	4.2	13	.51	.20	.29
5	2.3	8.7	24	7.0	4.8	23	14	4.2	13	.59	.23	.29
6	2.3	8.0	20	6.6	7.9	21	14	12	13	.67	.20	.32
7	2.3	7.6	16	6.2	9.6	24	13	16	12	.59	.20	.32
8	2.3	7.0	15	6.0	8.0	23	13	19	11	.45	.20	.32
9	3.7	7.3	13	5.8	6.1	21	12	20	9.4	.51	.20	.29
10	5.3	9.4	12	5.4	4.2	20	12	19	7.6	.59	.20	.29
11	5.0	9.7	12	5.2	2.9	18	11	16	7.0	1.0	.26	.29
12	4.7	9.7	11	5.0	2.4	18	11	14	6.3	.83	.26	.29
13	5.0	10	11	4.7	2.0	24	11	11	6.0	.67	.23	.26
14	6.7	10	11	4.4	1.6	31	11	9.7	5.0	.45	.23	.23
15	6.7	9.4	10	4.2	1.4	44	10	8.7	4.4	.36	.20	.23
16	6.3	8.7	10	4.0	1.2	54	9.7	7.3	2.7	.32	.23	.23
17	6.3	8.0	10	4.0	1.3	55	9.0	6.7	2.0	.26	.26	.26
18	5.7	7.6	9.7	3.7	2.3	49	8.7	6.3	1.6	.20	.26	.23
19	5.3	7.0	11	3.6	4.6	44	8.3	6.0	1.3	.20	.26	.26
20	5.7	11	12	3.4	9.3	38	7.6	5.0	1.3	.20	.29	.26
21	5.3	14	13	3.3	10.7	34	7.6	4.7	1.2	.20	.32	.23
22	5.0	15	14	3.1	9.5	31	7.3	4.4	1.2	.20	.29	.23
23	4.7	16	15	3.0	8.1	28	6.7	4.7	1.0	.20	.23	.26
24	4.4	15	14	2.9	6.4	25	6.0	6.3	1.0	.20	.26	.26
25	4.0	14	13	2.8	5.3	22	5.3	10	1.1	.20	.29	.26
26	3.7	12	11	2.8	5.3	19	5.0	9.4	1.3	.23	.29	.23
27	3.5	11	10	2.7	5.7	17	5.0	10	1.1	.23	.32	.23
28	4.0	17	9.4	2.5	5.7	16	5.0	10	1.1	.18	.32	.26
29	5.3	21	8.8	2.4	-----	15	4.7	10	1.0	.18	.32	.26
30	5.3	28	8.0	2.4	-----	14	4.4	10	1.0	.18	.32	.29
31	5.3	-----	7.4	2.3	-----	13	-----	10	-----	.18	.32	-----
TOTAL	138.3	329.5	454.3	136.6	1,275.1	894	288.3	289.0	164.6	12.68	7.75	8.21
MEAN	4.46	11.0	14.7	4.41	45.5	28.8	9.61	9.32	5.49	.41	.25	.27
MAX	6.7	28	32	7.3	10.7	55	14	20	13	1.0	.32	.36
MIN	2.3	5.0	7.4	2.3	2.1	13	4.4	4.2	1.0	.18	.18	.23
CFSM	.23	.57	.77	.23	2.37	1.50	.50	.49	.29	.02	.01	.01
IN.	.27	.64	.88	.26	2.47	1.73	.56	.56	.32	.02	.02	.02

CAL YR 1970 TOTAL 4,410.13 MEAN 12.1 MAX 57 MIN .50 CFSM .63 IN 8.54
 WTR YR 1971 TOTAL 3,956.34 MEAN 11.0 MAX 107 MIN .18 CFSM .57 IN 7.75

STREAMS TRIBUTARY TO LAKE MICHIGAN

04100465 Turkey Creek at Syracuse, Ind.

LOCATION.--Lat 41°25'35", long 85°45'16", in NE¼SE¼ sec.6, T.34 N., R.7 E., Kosciusko County, on right bank 75 ft upstream from Main Street Bridge in Syracuse and 1,500 ft downstream from dam at outlet of Syracuse Lake.

DRAINAGE AREA.--43.8 sq mi.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 848.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 85 cfs March 15 (gage height, 3.98 ft); minimum daily, 1.8 cfs Sept. 18, 19, 26.
Period of record: Maximum discharge, 114 cfs May 24, 1970 (gage height, 4.59 ft); minimum daily, 1.8 cfs Sept. 18, 19, 26, 1971.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5.6	48	6.4	37	60	48	71	6.8	4.5	2.8	2.7	2.2
2	5.4	50	6.6	37	60	46	71	7.0	4.2	2.7	2.9	2.2
3	28	51	21	37	60	44	71	7.0	3.9	2.3	2.9	2.3
4	49	51	40	37	60	43	70	7.0	3.6	2.2	2.8	2.0
5	49	51	40	37	68	43	70	7.4	3.5	3.1	2.7	2.1
6	49	51	39	37	64	46	70	9.4	3.4	2.9	2.7	2.0
7	49	39	40	37	59	49	69	9.6	3.6	2.9	2.2	2.2
8	51	4.2	40	37	54	49	69	8.5	3.2	3.1	2.1	2.3
9	55	4.2	41	38	46	49	68	7.4	3.2	3.1	2.6	2.3
10	53	4.9	42	38	41	49	68	7.0	3.1	2.7	2.8	2.3
11	53	4.5	41	42	40	61	69	6.8	3.1	2.7	2.8	2.0
12	54	4.5	41	80	40	73	69	6.6	2.8	2.8	2.6	1.9
13	55	4.5	41	74	39	76	70	6.2	2.6	2.9	2.4	2.1
14	56	4.2	41	70	37	78	70	5.8	2.8	2.9	2.1	2.1
15	55	4.1	41	67	37	83	69	5.0	2.8	2.9	2.0	2.1
16	52	4.3	40	66	37	84	65	4.7	2.8	2.9	2.3	2.0
17	49	4.2	40	65	39	81	63	4.7	2.8	2.9	2.4	2.1
18	48	3.8	40	64	50	80	43	4.5	2.8	2.4	2.3	1.9
19	49	3.5	40	63	55	80	28	4.2	2.7	3.1	2.3	1.8
20	49	4.5	39	62	58	79	28	4.3	2.4	2.9	2.2	2.9
21	49	4.3	39	62	51	79	28	4.1	2.8	2.9	2.0	2.2
22	48	4.5	39	61	48	79	28	3.6	2.6	3.1	2.6	2.1
23	49	5.2	39	60	49	76	9.2	3.4	2.7	3.6	2.8	2.0
24	49	4.9	38	60	46	75	8.5	4.5	2.7	3.5	2.6	2.0
25	49	4.9	38	60	45	74	7.8	3.9	2.7	2.6	2.6	2.0
26	49	4.3	38	60	49	73	7.8	3.8	2.3	4.3	2.3	1.8
27	49	4.9	38	60	51	71	7.8	3.5	2.2	4.1	2.3	2.0
28	51	5.8	38	60	50	70	7.6	3.2	3.8	4.1	2.0	2.1
29	51	6.8	37	60	-----	69	7.4	3.1	3.2	3.6	1.9	2.1
30	50	6.8	37	60	-----	69	7.2	3.1	3.1	3.5	2.2	2.1
31	49	-----	37	60	-----	69	-----	2.8	-----	2.9	2.2	-----
TOTAL	1,457.0	448.8	1,138.0	1,688	1,393	2,043	1,390.3	168.9	91.9	94.4	75.3	63.1
MEAN	47.0	15.0	36.7	54.5	49.8	65.9	46.3	5.45	3.06	3.05	2.43	2.10
MAX	56	51	42	80	68	84	71	9.6	4.5	4.3	2.9	2.9
MIN	5.4	3.5	6.4	37	37	43	7.2	2.8	2.2	2.2	1.9	1.8
CFSM	1.07	.34	.84	1.24	1.14	1.50	1.06	.12	.07	.07	.06	.05
IN.	1.24	.38	.97	1.43	1.18	1.74	1.18	.14	.08	.08	.06	.05
CAL YR 1970	TOTAL 12,039.7	MEAN 33.0	MAX 109	MIN 3.5	CFSM .75	IN 10.23						
WTR YR 1971	TOTAL 10,051.7	MEAN 27.5	MAX 84	MIN 1.8	CFSM .63	IN 8.54						

04100500 Elkhart River at Goshen, Ind.

LOCATION.--Lat 41°35'36", long 85°50'55", in NE¼NE¼ sec.8 (revised), T.36 N., R.6 E., Elkhart County, on right bank 20 ft downstream from River Avenue Bridge at Goshen and 0.5 mile upstream from Rock Run.

DRAINAGE AREA.--594 sq mi (revised).

PERIOD OF RECORD.--April 1931 to current year.

GAGE.--Water-stage recorder. Datum of gage is 769.43 ft above mean sea level. Prior to Nov. 20, 1931, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--40 years, 496 cfs (11.61 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,020 cfs Feb. 6 (gage height, 6.04 ft); minimum daily, 94 cfs Sept. 18.

Period of record: Maximum discharge, 5,440 cfs Apr. 4, 1950 (gage height, 10.15 ft); maximum gage height, 10.33 ft July 10, 1951; minimum daily discharge, 7.0 cfs Aug. 11, 1964, result of extreme regulation.

REMARKS.--Records good. The flow is regulated by three powerplants upstream from station.

REVISIONS (WATER YEARS).--WSP 1337: 1939(M), drainage area. WSP 1557: 1954.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	220	347	756	350	190	1,130	595	288	246	193	158	101
2	208	360	651	350	200	1,040	610	287	320	183	147	97
3	196	475	595	350	210	977	600	289	315	169	134	97
4	188	569	571	365	230	889	580	290	286	159	130	98
5	208	488	559	354	1,200	856	565	315	268	185	124	96
6	207	433	546	333	1,870	829	550	475	256	193	121	103
7	214	402	526	341	1,920	873	540	653	246	181	118	112
8	202	381	510	372	1,200	818	525	553	236	175	118	110
9	229	357	499	329	950	735	505	501	231	175	115	103
10	287	360	489	297	850	730	495	477	226	169	131	107
11	341	378	505	293	800	686	480	465	224	174	138	99
12	312	377	517	293	780	670	471	468	249	165	130	99
13	293	365	516	293	760	768	471	452	237	156	119	98
14	323	348	501	289	760	1,060	480	432	218	152	121	98
15	404	340	477	281	740	1,270	467	407	206	140	115	98
16	398	330	462	273	740	1,300	458	393	198	135	110	97
17	362	323	460	269	740	1,100	449	374	191	140	110	96
18	336	317	450	260	1,030	966	440	355	184	140	104	94
19	328	314	467	250	1,350	955	420	337	184	146	105	95
20	316	365	538	240	1,550	1,050	399	320	180	143	104	115
21	314	467	512	240	1,410	999	393	303	170	151	105	124
22	315	451	484	230	1,140	961	387	288	167	141	111	118
23	306	411	476	220	1,110	933	372	275	161	132	131	114
24	299	371	450	210	1,080	845	339	269	155	141	134	107
25	289	344	386	200	1,050	790	319	287	160	149	123	107
26	290	361	368	200	1,200	752	342	291	167	153	118	120
27	284	374	370	190	1,380	724	306	274	162	171	116	128
28	295	540	360	190	1,300	691	307	275	151	179	113	123
29	360	822	360	180	-----	670	308	262	172	181	110	113
30	434	845	360	180	-----	640	297	253	198	172	109	105
31	389	-----	360	180	-----	625	-----	243	-----	164	103	-----
TOTAL	9,147	12,615	15,081	8,402	27,740	27,332	13,470	11,151	6,364	5,007	3,725	3,172
MEAN	295	421	486	271	991	882	449	360	212	162	120	106
MAX	434	845	756	372	1,920	1,300	610	653	320	193	158	128
MIN	188	314	360	180	190	625	297	243	151	132	103	94
CFSM	.50	.71	.82	.46	1.67	1.48	.76	.61	.36	.27	.20	.18
IN.	.57	.79	.94	.53	1.74	1.71	.84	.70	.40	.31	.23	.20

CAL YR 1970 TOTAL 172,817 MEAN 473 MAX 2,150 MIN 116 CFSM .80 IN 10.82
WTR YR 1971 TOTAL 143,206 MEAN 392 MAX 1,920 MIN 94 CFSM .66 IN 8.97

PEAK DISCHARGE (BASE, 1,800 CFS).--Feb. 6 (1700) 2,020 cfs (6.04 ft).

STREAMS TRIBUTARY TO LAKE MICHIGAN

04101000 St. Joseph River at Elkhart, Ind.

LOCATION.--Lat 41°41'30", long 85°58'30", in SW¼NE¼ sec.5, T.37 N., R.5 E., Elkhart County, on left bank 200 ft downstream from mouth of Elkhart River, 200 ft upstream from Main Street Bridge in Elkhart, 2,000 ft downstream from Christiana Creek, and 0.5 mile downstream from Elkhart Hydroelectric Plant.

DRAINAGE AREA.--3,339 sq mi.

PERIOD OF RECORD.--August 1947 to current year. Gage heights at site 0.8 mile downstream at different datum for September 1924 to March 1926 are available in the district office.

GAGE.--Water-stage recorder. Datum of gage is 700.00 ft above mean sea level.

AVERAGE DISCHARGE.--24 years, 3,005 cfs (12.22 inches per year).

EXTREMES.--Current year: Maximum discharge, 7,810 cfs Feb. 23 (gage height, 22.33 ft); minimum daily, 651 cfs Aug. 26.
Period of record: Maximum discharge, 18,400 cfs Apr. 5, 1950 (gage height, 27.82 ft); minimum daily, 336 cfs Aug. 5, 1964.

REMARKS.--Records good. The flow is regulated by Elkhart Hydroelectric Plant and by a hydroelectric plant on Elkhart River at Goshen.

REVISIONS.--WSP 1337: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,900	2,790	4,550	2,600	4,320	7,050	4,460	2,360	2,010	1,400	1,080	862
2	2,040	2,990	4,420	2,480	4,080	6,890	4,480	2,200	2,100	1,210	1,360	848
3	1,770	3,240	4,300	3,180	3,650	6,620	4,410	2,210	1,710	1,180	1,450	860
4	1,570	3,340	4,340	3,140	3,570	6,040	4,310	2,650	1,680	1,060	1,370	899
5	2,050	3,500	4,270	2,680	4,860	5,870	4,140	2,480	1,590	1,070	1,370	951
6	2,050	3,260	4,130	2,600	5,970	5,860	4,100	2,900	1,610	1,050	1,220	1,050
7	1,880	3,030	4,070	2,210	5,420	5,860	4,050	3,140	1,900	1,110	1,030	1,270
8	1,820	2,970	3,800	2,420	5,000	5,190	3,820	3,110	1,900	1,260	1,010	1,680
9	1,860	2,680	3,670	2,360	4,800	5,270	3,790	2,660	1,690	1,390	1,020	1,630
10	2,100	3,140	3,640	2,350	4,600	5,170	3,580	2,800	1,730	1,050	1,090	1,470
11	1,450	2,530	3,710	2,450	4,490	5,140	3,700	2,810	1,910	1,100	1,260	1,140
12	1,810	3,070	3,750	2,930	4,570	4,810	3,400	2,750	1,690	1,150	1,340	999
13	2,110	3,020	3,750	2,750	4,430	4,830	3,260	2,690	1,490	1,190	1,120	1,150
14	2,780	2,780	3,600	2,660	4,260	5,570	3,190	2,560	1,730	1,220	950	1,150
15	3,310	2,620	3,740	2,650	4,070	6,250	3,480	2,530	1,810	1,210	995	1,310
16	3,110	2,780	3,730	2,500	4,120	6,650	3,370	2,390	1,380	1,210	931	1,270
17	3,320	2,820	3,720	2,310	3,850	6,690	3,360	2,130	1,490	1,100	936	1,220
18	3,370	2,600	3,500	2,240	4,500	6,600	3,290	2,280	1,460	1,190	985	1,130
19	3,430	2,620	3,500	2,200	5,570	6,600	3,200	2,320	1,300	1,420	989	884
20	3,280	2,660	3,540	2,150	6,180	6,680	3,190	1,970	1,430	950	939	1,140
21	3,290	2,870	3,690	2,100	6,470	6,530	2,930	2,100	1,550	1,390	922	1,300
22	3,050	3,380	3,660	2,100	7,230	6,180	2,690	2,060	1,420	1,420	934	1,260
23	2,970	3,100	3,650	2,150	7,260	6,100	2,840	1,760	1,380	1,440	905	1,350
24	2,870	2,880	3,530	2,100	6,970	5,840	2,650	2,010	1,400	1,390	911	1,200
25	2,580	3,140	3,100	2,000	6,890	5,640	2,650	1,810	1,400	1,250	1,140	1,370
26	2,650	3,010	3,040	1,900	7,160	5,320	2,720	1,860	1,260	1,260	651	1,200
27	2,600	2,820	2,900	1,860	7,260	5,060	2,780	2,210	1,300	1,440	871	1,210
28	2,640	3,450	2,900	1,940	7,230	4,910	2,150	1,780	1,420	1,380	913	1,300
29	2,870	3,800	2,800	2,200	-----	4,820	2,310	1,720	1,330	1,550	896	1,350
30	3,070	4,410	2,800	2,380	-----	4,730	2,920	1,640	1,210	1,440	868	1,330
31	2,850	-----	2,700	3,600	-----	4,560	-----	1,640	-----	1,300	859	-----
TOTAL	78,810	91,700	112,700	75,190	148,980	179,530	101,220	71,530	47,270	38,780	32,315	35,783
MEAN	2,542	3,057	3,625	2,425	5,321	5,791	3,374	2,307	1,576	1,251	1,042	1,193
MAX	3,430	4,410	4,550	3,600	7,260	7,050	4,480	3,140	2,100	1,550	1,450	1,680
MIN	1,450	2,600	2,700	1,860	3,570	4,560	2,150	1,640	1,210	950	651	848
CFSM	.76	.92	1.05	.73	1.59	1.73	1.01	.69	.47	.37	.31	.36
IN.	.88	1.02	1.26	.84	1.66	2.00	1.13	.80	.53	.43	.36	.40
CAL YR 1970	TOTAL	1,155,610	MEAN	3,166	MAX	7,670	MIN	1,240	CFSM	.95	IN	12.87
WTR YR 1971	TOTAL	1,013,800	MEAN	2,778	MAX	7,260	MIN	651	CFSM	.83	IN	11.29

STREAMS TRIBUTARY TO LAKE ERIE

231

04177720 Fish Creek at Hamilton, Ind.

LOCATION.--Lat 41°31'55", long 84°54'12", in SE $\frac{1}{4}$ sec. 34, T. 36 N., R. 14 E., Steuben County, on left bank 6 ft upstream from bridge on County Road 775 South, 0.5 mile downstream from Hamilton Lake outlet, and 0.5 mile southeast of Hamilton.

DRAINAGE AREA.--37.5 sq mi.

PERIOD OF RECORD.--October 1969 to current year.

GAGE.--Water-stage recorder. Datum of gage is 876.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 219 cfs Feb. 20 (gage height, 7.54 ft); minimum daily, 0.52 cfs Aug. 31.
Period of record: Maximum discharge 219 cfs Feb. 20, 1971 (gage height, 7.54 ft); minimum daily, 0.52 cfs Aug. 31, 1971.

REMARKS.--Records good.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.2	7.8	44	12	6.2	76	25	8.4	13	2.1	3.0	.58
2	3.1	8.4	38	11	6.2	62	31	9.0	17	1.7	2.7	3.3
3	3.1	11	34	11	6.2	52	30	9.4	42	1.6	2.4	5.1
4	2.7	11	31	16	16	42	27	9.0	36	1.5	3.8	4.4
5	2.3	9.8	27	16	171	36	25	9.4	30	1.9	3.2	4.4
6	2.4	8.8	22	14	143	40	24	39	26	2.2	2.9	5.4
7	2.6	8.2	19	12	117	51	22	40	23	1.9	2.6	5.4
8	2.8	7.6	18	10	93	43	21	35	19	2.0	2.3	4.4
9	4.1	7.6	16	9.6	70	36	21	30	15	2.1	2.1	4.0
10	7.4	10	15	9.3	54	34	18	26	11	6.0	2.2	4.1
11	7.0	11	17	9.1	44	31	17	23	9.7	6.7	3.4	4.7
12	6.6	11	20	8.8	49	31	18	22	9.0	3.6	2.8	4.5
13	6.8	10	21	8.6	42	40	20	18	9.4	2.6	2.6	4.4
14	11	9.4	20	8.5	35	61	22	16	7.4	2.3	2.5	4.2
15	11	9.2	18	8.1	30	111	21	15	6.3	1.4	2.2	4.0
16	9.2	8.0	18	7.7	26	122	20	17	5.4	1.6	1.8	4.1
17	8.2	7.4	18	7.6	38	102	21	14	4.8	2.5	1.4	4.2
18	7.2	7.0	18	7.4	68	82	20	13	4.3	2.3	1.3	3.7
19	6.6	6.8	24	7.2	117	70	19	12	4.0	5.5	1.4	3.3
20	6.4	14	30	6.8	215	64	18	11	3.9	7.2	1.4	5.4
21	7.4	18	28	6.8	195	54	18	9.6	4.3	5.2	1.5	5.4
22	7.0	17	26	6.7	155	49	17	8.4	3.9	4.5	1.2	4.9
23	6.6	14	24	6.7	123	44	15	7.8	3.7	4.0	1.3	4.9
24	6.4	10	22	6.6	93	37	14	10	3.4	4.3	1.0	4.6
25	6.0	9.2	20	6.5	86	33	11	21	3.2	4.1	1.4	4.6
26	5.9	8.8	18	6.4	107	30	9.6	19	3.1	4.2	1.2	5.1
27	5.7	9.8	17	6.3	115	28	8.8	17	2.9	3.7	1.0	4.8
28	6.0	34	16	6.2	96	26	9.2	16	2.8	3.4	.90	2.3
29	6.6	44	15	6.2	-----	26	8.8	14	2.5	3.6	.80	2.2
30	9.0	48	14	6.2	-----	74	8.6	13	2.2	3.4	.72	2.0
31	8.4	-----	12	6.2	-----	22	-----	12	-----	3.3	.52	-----
TOTAL	190.7	396.8	680	271.5	2,316.6	1,559	560.0	524.0	347.2	102.4	59.54	124.68
MEAN	6.15	13.2	21.9	8.76	82.7	50.3	18.7	16.9	11.6	3.30	1.92	4.16
MAX	11	48	44	16	215	122	31	40	42	7.2	3.8	5.4
MIN	2.3	6.8	12	6.2	6.2	22	8.6	7.8	2.2	1.4	.52	.58
CFSM	.16	.35	.58	.23	2.21	1.34	.50	.45	.31	.09	.05	.11
IN.	.19	.39	.67	.27	2.30	1.55	.56	.52	.34	.10	.06	.12

CAL YR 1970 TOTAL 7,602.00 MEAN 20.8 MAX 170 MIN 1.2 CFSM .55 IN 7.54
WTR YR 1971 TOTAL 7,132.42 MEAN 19.5 MAX 215 MIN .52 CFSM .52 IN 7.08

PEAK DISCHARGE (BASE, 100 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0900	7.24	198	03-16	0100	6.11	128
02-20	1700	7.54	219				

STREAMS TRIBUTARY TO LAKE ERIE

04178000 St. Joseph River near Newville, Ind.

LOCATION.--Lat 41°23'08", long 84°48'06", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.18, T.5 N., R.1 E., Defiance County, Ohio, on left bank at bridge on Ohio State Highway 249, 3.5 miles northeast of Newville and 6.5 miles northwest of Hicksville, Ohio.

DRAINAGE AREA.--610 sq mi.

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307.

GAGE.--Water-stage recorder. Datum of gage is 795.40 ft above mean sea level. Prior to Oct. 22, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 493 cfs (10.98 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,210 cfs Feb. 23 (gage height, 14.11 ft); minimum daily, 20 cfs Aug. 30, 31, Sept. 1.
Period of record: Maximum discharge, 9,710 cfs Apr. 6, 1950 (gage height, 17.05 ft); minimum daily, 14 cfs Sept. 10, 16, 1964.

REMARKS.--Records good except those for parts of December, January, February, and September, which are fair. Records of chemical analyses for current year at site 0.5 mile downstream (04178100 St. Joseph River at Indiana-Ohio State Line) are published in Part 2 of this report.

REVISIONS.--WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	134	1,130	220	76	2,170	419	161	132	54	46	20
2	67	136	1,130	210	74	2,050	465	162	285	50	43	28
3	60	169	1,030	199	74	1,800	555	162	603	47	39	38
4	55	178	876	213	162	1,370	591	157	503	44	40	39
5	53	173	658	255	1,550	1,020	537	154	333	46	49	39
6	50	160	524	220	2,800	843	501	427	247	51	45	44
7	49	144	450	200	2,450	983	421	579	221	51	38	48
8	48	126	380	180	2,000	960	388	493	263	56	34	60
9	48	114	325	160	1,500	920	361	398	248	60	33	49
10	52	113	296	150	1,250	775	339	324	210	57	34	41
11	52	117	279	145	1,300	645	321	275	174	60	42	43
12	66	139	281	140	1,250	627	297	242	152	69	40	41
13	80	163	325	135	1,250	800	284	217	142	64	43	37
14	155	157	378	130	1,250	955	294	198	206	52	41	33
15	253	144	363	125	860	1,400	317	178	258	46	35	29
16	289	131	315	120	660	1,810	326	162	227	44	32	29
17	268	123	302	115	660	1,960	314	152	168	44	30	28
18	195	115	300	110	900	1,940	299	141	136	44	27	26
19	142	109	420	105	1,600	1,920	285	132	118	52	28	25
20	117	180	738	100	2,800	1,750	270	127	101	205	27	32
21	117	375	768	100	3,210	1,450	258	119	93	255	25	45
22	114	426	708	98	3,840	1,220	248	114	87	140	24	61
23	113	394	562	98	4,130	1,050	235	108	82	92	22	58
24	112	310	445	98	3,670	900	219	109	79	77	22	41
25	106	224	349	96	3,120	755	205	238	79	68	33	43
26	97	191	330	94	2,930	629	192	290	78	66	28	49
27	91	178	305	90	2,700	555	175	273	70	60	23	56
28	86	414	285	86	2,400	509	172	234	66	62	21	53
29	87	853	265	84	-----	479	167	193	61	59	21	48
30	101	1,100	245	82	-----	459	167	165	58	51	20	44
31	115	-----	230	78	-----	439	-----	145	-----	48	20	-----
TOTAL	3,313	7,290	14,992	4,236	50,466	35,183	9,622	6,829	5,480	2,174	1,005	1,227
MEAN	107	243	484	137	1,802	1,135	321	220	183	70.1	32.4	40.9
MAX	289	1,100	1,130	255	4,130	2,170	591	579	603	255	49	61
MIN	48	109	230	78	74	439	167	108	58	44	20	20
CFSM	.18	.40	.79	.22	2.95	1.86	.53	.36	.30	.11	.05	.07
IN.	.20	.44	.91	.26	3.08	2.15	.59	.42	.33	.13	.06	.07
CAL YR 1970	TOTAL 149,014	MEAN 408	MAX 2,090	MIN 33	CFSM .67	IN 9.09						
WTR YR 1971	TOTAL 141,817	MEAN 389	MAX 4,130	MIN 20	CFSM .64	IN 8.65						

04179000 St. Joseph River at Cedarville, Ind.

LOCATION.--Lat 41°11'46", long 85°01'27", in J. Hackley Reserve, T.32 N., R.13 E., Allen County, on left bank 700 ft upstream from highway bridge, 0.4 mile south of Cedarville, 0.5 mile upstream from Cedar Creek, and 0.6 mile downstream from Cedarville Dam.

DRAINAGE AREA.--763 sq mi.

PERIOD OF RECORD.--January 1931 to May 1932, October 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 757.94 ft above mean sea level. Jan. 1, 1931, to May 31, 1932, nonrecording gage on downstream side of highway bridge 700 ft downstream from present site at datum approximately 20 ft lower..

AVERAGE DISCHARGE.--16 years (1955 to current year), 576 cfs (10.25 inches per year).

EXTREMES.--Current year: Maximum daily discharge, 4,010 cfs Feb. 27; maximum gage height, 12.29 ft Feb. 20; minimum daily discharge, 13 cfs Sept. 30.

Period of record: Maximum discharge, 10,100 cfs May 1, 1956 (gage height, 18.07 ft, from floodmarks); minimum daily, 1.6 cfs May 22, 27, 1958.

REMARKS.--Records good. Flow regulated by Cedarville Reservoir and some flow diverted into storage of Hurshtown Reservoir. Cedar Creek used as factor during periods of high flows.

REVISIONS (WATER YEARS).--WSP 1912: 1956. WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	70	130	1,320	208	120	2,660	520	160	200	103	55	43
2	95	180	1,330	216	116	2,420	520	226	600	111	59	42
3	75	240	1,280	214	117	2,240	590	228	900	47	60	45
4	60	300	1,060	240	236	1,780	660	177	780	15	50	48
5	50	230	830	245	1,980	1,380	680	218	510	23	49	49
6	45	178	680	204	2,310	1,030	540	840	373	126	55	51
7	45	250	580	230	2,240	1,300	490	1,030	372	66	56	63
8	50	165	450	228	1,850	1,180	510	870	387	42	52	66
9	70	154	430	204	1,600	910	420	690	349	83	54	48
10	100	165	394	161	1,400	1,010	417	560	297	86	40	29
11	90	190	424	171	1,250	730	412	460	244	80	54	32
12	85	182	325	163	1,200	810	700	370	221	77	50	36
13	81	184	400	156	1,200	1,280	970	310	206	73	76	69
14	335	198	490	154	1,120	1,030	243	260	141	83	65	30
15	440	190	500	145	1,020	1,590	690	220	223	75	37	83
16	300	198	465	135	900	2,080	580	210	302	65	39	45
17	250	186	418	138	770	2,070	520	190	229	67	35	114
18	200	172	403	136	1,570	2,210	520	180	156	47	36	16
19	170	147	540	136	1,670	2,190	510	170	175	73	32	22
20	140	273	1,030	129	2,750	2,160	176	160	118	72	39	30
21	140	595	670	128	3,070	1,830	67	150	111	200	47	25
22	140	595	830	126	3,340	1,550	329	140	125	261	38	56
23	120	495	710	128	3,710	1,280	263	130	110	149	174	79
24	110	420	630	128	3,860	1,030	349	140	92	123	14	27
25	110	370	440	129	3,720	900	364	300	83	105	17	26
26	100	285	288	131	3,660	750	316	350	100	84	31	37
27	95	220	255	131	4,010	600	323	330	119	62	48	147
28	100	580	382	128	3,210	640	233	290	85	70	37	103
29	120	1,240	293	128	-----	630	208	250	69	81	26	17
30	130	1,320	290	115	-----	580	204	210	70	73	42	13
31	135	-----	275	121	-----	530	-----	190	-----	72	55	-----
TOTAL	4,051	10,032	18,452	5,006	53,992	42,380	13,324	10,009	7,747	2,694	1,522	1,491
MEAN	131	334	595	161	1,928	1,367	444	323	258	86.9	49.1	49.7
MAX	440	1,320	1,330	245	4,010	2,660	970	1,030	900	261	174	147
MIN	45	130	255	115	110	530	67	130	69	15	14	13
CFSM	.17	.44	.78	.21	2.53	1.79	.58	.42	.34	.11	.06	.07
IN.	.20	.49	.90	.24	2.63	2.07	.65	.49	.38	.13	.07	.07
CAL YR 1970	TOTAL 185,983		MEAN 510	MAX 2,630	MIN 35	CFSM .67	IN 9.07					
WTR YR 1971	TOTAL 170,700		MEAN 468	MAX 4,010	MIN 13	CFSM .61	IN 8.32					

STREAMS TRIBUTARY TO LAKE ERIE

04179500 Cedar Creek at Auburn, Ind.

LOCATION.--Lat 41°21'57", long 85°03'08", in NE 1/4 sec. 32, T. 34 N., R. 13 E., Dekalb County, on right bank 15 ft downstream from Ninth Street Bridge in Auburn and 2 miles upstream from John Diehl ditch.

DRAINAGE AREA.--87.3 sq mi.

PERIOD OF RECORD.--July 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 847.14 ft above mean sea level (City of Auburn bench mark). Prior to Aug. 28, 1946, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years, 67.3 cfs (10.47 inches per year).

EXTREMES.--Current year: Maximum discharge, 766 cfs Feb. 19 (gage height, 7.58 ft); minimum daily, 0.96 cfs Aug. 22.
Period of record: Maximum discharge, 1,520 cfs Apr. 5, 1950 (gage height, 9.90 ft); minimum daily, 0.7 cfs Nov. 8, 1953.

REMARKS.--Records good except part of December, January, and February, which are fair.

REVISIONS (WATER YEARS).--WSP 1337: 1944-45(M), 1947-49, 1950(M). WSP 1912: Drainage area.

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.3	17	141	17	11	152	56	19	32	5.6	1.8	1.9
2	5.6	22	110	16	11	127	80	21	129	4.7	2.1	6.9
3	4.4	56	93	22	11	101	74	21	119	4.2	2.2	11
4	4.0	47	88	40	20	80	64	20	71	4.9	2.6	6.3
5	4.4	37	73	49	450	70	58	24	51	5.6	2.2	3.7
6	4.4	30	62	41	400	82	53	186	43	5.2	1.8	4.2
7	4.4	22	55	34	260	133	48	164	45	4.0	1.5	5.6
8	4.7	17	51	26	160	82	44	108	45	4.0	1.3	4.4
9	13	18	47	21	130	66	42	79	34	4.0	1.6	3.7
10	50	40	43	19	110	63	38	63	27	3.1	2.3	3.7
11	27	51	45	17	105	58	37	54	24	4.2	2.8	3.0
12	19	45	53	17	98	82	36	47	56	3.7	1.9	2.5
13	17	37	56	16	88	169	39	40	39	3.3	1.7	2.9
14	60	29	59	15	74	210	46	36	31	2.8	1.3	2.8
15	85	25	52	15	53	374	44	31	23	2.7	1.2	2.6
16	50	23	48	14	38	319	42	29	19	2.7	1.7	2.5
17	31	21	45	14	65	204	38	27	16	3.5	1.6	2.5
18	23	19	43	13	150	150	34	24	14	2.5	1.7	1.8
19	19	18	50	13	400	134	32	23	12	4.0	1.6	1.6
20	16	77	150	13	720	139	31	22	10	4.7	1.6	7.9
21	17	130	140	13	439	116	30	19	9.7	3.5	1.1	5.2
22	16	92	105	13	314	114	30	17	9.3	3.0	.96	3.7
23	15	70	80	12	242	101	27	15	8.6	2.8	1.4	3.1
24	12	52	63	12	166	85	25	24	8.2	3.1	1.6	3.0
25	10	40	52	12	183	74	23	82	7.6	2.4	1.9	2.6
26	9.7	33	44	12	339	64	22	72	7.3	2.8	1.9	3.0
27	9.7	34	37	12	314	63	22	55	6.3	2.7	1.8	4.4
28	8.2	180	31	12	200	61	22	42	6.3	2.8	1.5	3.7
29	11	208	26	12	-----	61	22	35	5.6	3.0	1.1	3.3
30	19	199	22	11	-----	57	21	29	5.6	2.7	1.8	3.1
31	18	-----	19	11	-----	53	-----	24	-----	1.9	1.8	-----
TOTAL	593.8	1,689	1,983	564	5,551	3,644	1,180	1,452	914.5	110.1	53.36	116.5
MEAN	19.2	56.3	64.0	18.2	198	118	39.3	46.8	30.5	3.55	1.72	3.89
MAX	85	208	150	49	720	374	80	186	129	5.6	2.8	11
MIN	4.0	17	19	11	11	53	21	15	5.6	1.9	.96	1.6
CFSM	.22	.64	.73	.21	2.27	1.35	.45	.54	.35	.04	.02	.04
IN.	.25	.72	.84	.24	2.37	1.55	.50	.62	.39	.05	.02	.05

CAL YR 1970 TOTAL 20,455.80 MEAN 56.0 MAX 490 MIN 2.6 CFSM .64 IN 8.72
WTR YR 1971 TOTAL 17,851.26 MEAN 48.9 MAX 720 MIN .96 CFSM .56 IN 7.61

PEAK DISCHARGE (BASE, 700 CFS).--Feb. 19 (2300) 766 cfs (7.58 ft).

04180000 Cedar Creek near Cedarville, Ind.

LOCATION.--Lat 41°13'08", long 85°04'35", in NW¼NW¼ sec.19, T.32 N., R.13 E., Allen County, on left bank at downstream side of bridge on State Highway 427, 3 miles northwest of Cedarville, 5.8 miles upstream from mouth, and 10 miles south of Auburn.

DRAINAGE AREA.--270 sq mi.

PERIOD OF RECORD.--October 1946 to current year.

GAGE.--Water-stage recorder. Datum of gage is 780.09 ft above mean sea level. Prior to Nov. 4, 1947, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 230 cfs (11.57 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,120 cfs Feb. 20 (gage height, 9.04 ft); minimum daily, 21 cfs Aug. 30.
Period of record: Maximum discharge, 4,870 cfs Apr. 5, 1950 (gage height, 11.67 ft); minimum daily, 13 cfs Oct. 3, 1949.

REMARKS.--Records good.

REVISIONS.--WSP 1912: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41	94	524	90	42	459	180	86	122	50	32	26
2	38	86	360	86	41	393	238	96	438	46	29	32
3	35	151	294	84	41	330	238	105	426	43	31	43
4	32	171	329	108	70	261	208	96	276	41	35	43
5	30	144	254	173	1,700	240	185	92	205	55	35	35
6	31	125	208	140	1,500	261	173	638	173	55	32	37
7	30	109	175	105	1,000	456	165	708	190	46	31	47
8	29	95	159	88	650	309	155	453	223	43	28	38
9	34	88	150	80	500	233	148	327	170	44	28	35
10	123	130	140	72	430	233	139	258	137	46	33	32
11	146	198	137	68	400	210	132	215	117	49	44	33
12	92	167	150	64	380	261	130	193	134	43	36	29
13	76	145	161	62	340	582	137	168	141	41	32	27
14	130	126	169	59	270	589	158	150	117	38	31	29
15	297	114	160	57	190	918	153	134	103	37	28	28
16	189	105	151	55	140	1,040	144	124	90	37	26	27
17	134	100	147	53	200	620	139	117	83	40	28	29
18	105	95	140	52	550	468	130	111	75	36	27	27
19	87	91	232	52	1,500	417	119	105	71	35	27	25
20	78	165	449	51	2,850	498	115	100	68	41	27	49
21	80	409	312	51	2,170	411	113	92	65	37	27	49
22	78	299	237	51	966	390	113	86	61	36	25	35
23	73	214	206	50	820	348	107	81	59	33	25	32
24	66	163	187	50	522	291	102	103	56	40	25	29
25	62	135	169	50	462	250	98	387	55	37	28	31
26	60	119	145	49	982	230	94	330	58	38	29	33
27	58	113	130	48	966	213	92	230	53	36	27	44
28	57	383	125	47	610	205	94	183	49	36	26	37
29	70	654	110	45	-----	200	92	150	50	37	24	35
30	126	724	105	44	-----	190	88	130	50	36	21	33
31	112	-----	96	43	-----	178	-----	115	-----	36	24	-----
TOTAL	2,599	5,712	6,311	2,127	20,292	11,694	4,179	6,163	3,915	1,268	901	1,028
MEAN	83.8	190	204	68.6	725	377	139	199	131	40.9	29.1	34.3
MAX	297	724	524	173	2,850	1,040	238	708	438	55	44	49
MIN	29	86	96	43	41	178	88	81	49	33	21	25
CFSM	.31	.70	.76	.25	2.69	1.40	.51	.74	.49	.15	.11	.13
IN.	.36	.79	.87	.29	2.80	1.61	.58	.85	.54	.17	.12	.14

CAL YR 1970 TOTAL 69,206 MEAN 190 MAX 1,670 MIN 24 CFSM .70 IN 9.54
WTR YR 1971 TOTAL 66,179 MEAN 181 MAX 2,850 MIN 21 CFSM .67 IN 9.12

PEAK DISCHARGE (BASE, 2,000 CFS).--Feb. 20 (1730) 3,120 cfs (9.04 ft).

STREAMS TRIBUTARY TO LAKE ERIE

04181500 St. Marys River at Decatur, Ind.

LOCATION.--Lat 40°50'55", long 84°56'16", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.27, T.28 N., R.14 E., Adams County, on right bank 10 ft downstream from bridge on U.S. Highway 27, 0.5 mile upstream from Holthouse ditch, and 1.3 miles north of Decatur.

DRAINAGE AREA.--621 sq mi.

PERIOD OF RECORD.--October 1946 to current year. Monthly discharge only for some periods, published in WSP 1307. Gage-height records collected at site 0.5 mile upstream January 1932 to November 1954, and at present site thereafter are contained in reports of U.S. Weather Bureau.

GAGE.--Water-stage recorder. Datum of gage is 760.44 ft above mean sea level. Prior to July 27, 1948, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--25 years, 472 cfs (10.32 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,580 cfs Feb. 23 (gage height, 18.43 ft); minimum daily, 17 cfs Oct. 6-9.
Period of record: Maximum discharge, 11,300 cfs Feb. 10, 11, 1959; maximum gage height, 24.22 ft Feb. 10, 1959 (ice jam); minimum daily discharge, 5.4 cfs Oct. 18, 1960.

REMARKS.--Records good. Flow regulated by Grand Lake Reservoir. Slight diversion from or into Wabash River basin and into Miami and Erie Canal.

REVISIONS (WATER YEARS).--WSP 1174: 1948. WSP 1337: 1947. WSP 1627: 1950. WSP 1912: 1955, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	20	102	54	25	1,230	139	49	391	283	54	26
2	21	20	67	50	25	968	164	50	465	194	44	25
3	20	19	52	48	25	837	154	50	1,730	117	39	32
4	19	21	48	80	60	638	133	50	1,210	79	37	42
5	18	21	48	250	1,480	480	118	47	792	61	35	33
6	17	22	43	180	1,200	395	117	1,080	794	51	31	102
7	17	21	39	105	780	574	121	1,170	1,360	43	28	247
8	17	20	35	96	580	446	114	1,940	1,240	37	26	173
9	17	22	34	88	500	367	103	1,710	766	130	26	105
10	19	25	34	82	440	416	94	1,260	458	97	33	115
11	25	26	37	79	430	440	85	1,190	285	276	69	113
12	23	26	57	76	410	722	80	1,100	210	904	46	87
13	21	23	133	73	380	1,600	87	899	172	638	31	64
14	33	25	108	68	330	1,460	90	659	172	467	26	49
15	47	25	65	61	310	1,570	90	496	150	323	27	40
16	46	25	75	54	290	1,660	85	405	175	174	28	35
17	36	28	118	47	290	1,140	110	316	156	99	27	30
18	29	28	134	43	750	967	149	220	122	71	25	26
19	26	28	133	39	2,000	964	137	166	94	55	23	24
20	30	37	108	37	3,130	1,060	117	144	76	47	25	44
21	29	43	87	35	3,030	833	107	145	66	41	42	54
22	25	41	57	34	2,940	674	100	115	57	37	40	72
23	24	34	119	33	3,540	557	86	97	50	32	29	73
24	23	26	130	33	3,260	451	77	105	46	54	23	143
25	23	29	100	32	2,660	366	73	591	44	77	28	129
26	21	28	87	31	2,470	295	68	851	72	76	34	337
27	19	33	79	29	2,530	246	63	712	109	116	32	1,140
28	13	54	72	28	1,940	214	61	962	187	117	28	745
29	18	86	66	27	-----	133	58	1,100	267	94	24	509
30	18	187	61	26	-----	153	54	907	305	79	22	444
31	23	-----	57	26	-----	142	-----	627	-----	71	19	-----
TOTAL	742	1,043	2,424	1,944	35,845	22,113	3,043	19,228	12,021	4,940	1,001	5,084
MEAN	23.9	34.8	78.4	62.7	1,280	713	101	620	401	159	32.3	169
MAX	47	187	134	250	3,540	1,660	164	1,940	1,730	904	69	1,140
MIN	17	19	34	26	25	142	54	47	44	32	19	24
CFSM	.04	.06	.13	.10	2.06	1.15	.16	1.00	.65	.26	.05	.27
IN.	.04	.06	.15	.12	2.15	1.32	.18	1.15	.72	.30	.06	.30
CAL YR 1970	TOTAL 137,292	MEAN 376	MAX 3,570	MIN 14	CFSM .61	IN 8.21						
WTR YR 1971	TOTAL 109,413	MEAN 300	MAX 3,540	MIN 17	CFSM .48	IN 6.55						

PEAK DISCHARGE (BASE, 2,900 CFS).--Feb. 23 (1700) 3,580 cfs (18.43 ft).

04182000 St. Marys River near Fort Wayne, Ind.

LOCATION.--Lat 40°59'16", long 85°06'03", in A. LaFontaine Reserve, T.29 N., R.12 E., Allen County, on left bank 130 ft downstream from highway bridge on Anthony Boulevard, 5 miles south of Fort Wayne, and 10.8 miles upstream from confluence with St. Joseph River.

DRAINAGE AREA.--762 sq mi.

PERIOD OF RECORD.--October 1930 to current year. Monthly discharge only for some periods, published in WSP 1307. Fragmentary gage-height records for period November 1924 to October 1927 are available in the District office.

GAGE.--Water-stage recorder. Datum of gage is 748.97 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Apr. 13, 1939, nonrecording gage on highway bridge at same datum.

AVERAGE DISCHARGE.--41 years, 545 cfs (9.71 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,290 cfs Feb. 20 (gage height, 11.40 ft); maximum gage height, 11.90 ft Feb. 19 (ice jam); minimum daily discharge, 17 cfs Oct. 8.

Period of record: Maximum discharge, 13,600 cfs Feb. 11, 1959; maximum gage height, 19.42 ft Feb. 11, 1959 (ice jam); minimum daily discharge, 3.4 cfs Oct. 19, 1934.

REMARKS.--Records good. The flow is sometimes regulated by Grand Lake. There is slight diversion from or into Wabash River basin and into Miami and Erie Canal.

REVISIONS (WATER YEARS).--WSP 974: 1942. WSP 1337: 1933, 1947. WSP 1912: 1954, 1955, 1960, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	24	22	244	88	27	1,670	167	65	568	317	71	28
2	21	27	147	83	26	1,160	201	63	487	264	53	36
3	21	32	103	78	26	981	208	64	1,550	175	44	32
4	21	30	92	100	100	778	180	63	1,690	113	37	46
5	21	27	76	290	1,650	575	152	62	997	83	35	59
6	23	27	69	220	1,500	494	138	817	836	68	33	56
7	18	27	60	165	1,000	639	140	1,700	1,260	56	30	196
8	17	27	55	150	680	586	140	2,030	1,510	48	27	266
9	18	25	50	140	550	414	130	2,340	1,030	42	25	161
10	22	28	47	130	500	430	116	1,630	612	168	27	115
11	22	31	49	120	470	473	105	1,420	393	112	53	125
12	23	32	64	115	440	748	97	1,300	287	655	69	115
13	24	32	129	110	410	1,870	99	1,120	221	745	47	91
14	108	30	185	100	380	2,030	121	862	196	506	31	71
15	74	31	136	94	340	2,080	127	638	180	380	24	56
16	54	32	100	84	320	2,220	114	520	172	254	24	45
17	51	32	113	74	470	1,600	112	435	186	151	25	39
18	40	32	186	68	860	1,180	144	337	158	100	25	34
19	31	33	277	62	2,250	1,110	164	264	125	77	23	32
20	27	61	212	58	3,900	1,290	146	216	100	61	23	45
21	28	76	149	55	3,420	1,080	131	202	86	50	23	71
22	30	62	125	52	3,520	848	128	187	74	43	37	75
23	26	53	143	50	3,960	680	115	158	65	38	41	82
24	24	48	188	48	4,050	548	99	152	57	42	28	118
25	24	38	175	46	3,820	441	90	496	59	61	23	154
26	23	36	150	42	3,250	362	85	1,060	90	79	24	154
27	22	47	135	37	3,220	302	80	840	95	85	31	1,040
28	18	231	120	34	2,730	266	77	954	136	119	31	1,020
29	22	298	110	31	-----	241	74	1,210	237	112	26	611
30	24	332	100	29	-----	209	70	1,110	298	92	23	494
31	23	-----	53	28	-----	179	-----	820	-----	80	21	-----
TOTAL	921	1,829	3,882	2,781	43,909	27,484	3,750	23,135	13,755	5,176	1,034	5,467
MEAN	29.7	61.0	125	89.7	1,568	887	125	746	459	167	33.4	182
MAX	108	332	277	290	4,050	2,220	208	2,340	1,690	745	71	1,040
MIN	17	22	47	28	26	179	70	62	57	38	21	28
CFSM	.04	.08	.16	.12	2.06	1.16	.16	.98	.60	.22	.04	.24
IN.	.04	.09	.19	.14	2.14	1.34	.18	1.13	.67	.25	.05	.27

CAL YR 1970 TOTAL 179,636 MEAN 491 MAX 4,760 MIN 17 CFSM .64 IN 8.74
 WTR YR 1971 TOTAL 133,123 MEAN 365 MAX 4,050 MIN 17 CFSM .48 IN 6.50

PEAK DISCHARGE (BASE, 4,000 CFS).--Feb. 20 (0200) 4,290 cfs (11.40 ft).

STREAMS TRIBUTARY TO LAKE ERIE

04182590 Harber ditch at Fort Wayne, Ind.

LOCATION.--Lat 41°00'27", long 85°10'58", in NE¼SW¼ sec.33, T.30 N., R.12 E., Allen County, on left bank 50 ft upstream from bridge on State Highway 3 at Fort Wayne city limits and 3.2 miles upstream from mouth. The stream name changes to Fairfield ditch 0.7 mile downstream at bridge on Lower Huntington Road.

DRAINAGE AREA.--21.9 sq mi.

PERIOD OF RECORD.--May 1964 to current year. Discharge measurements available October 1960 to May 1964 and gage heights January 1961 to May 1964 at site 0.7 mile downstream.

GAGE.--Water-stage recorder. Datum of gage is 757.00 ft above mean sea level.

AVERAGE DISCHARGE.--7 years, 17.4 cfs (10.79 inches per year).

EXTREMES.--Current year: Maximum discharge, 728 cfs Feb. 20 (gage height, 11.55 ft); minimum daily, 0.10 cfs Jan. 28 to Feb. 3, Aug. 8, and Sept. 19.

Period of record: Maximum discharge, 728 cfs Feb. 20, 1971 (gage height, 11.55 ft); minimum daily, 0.10 cfs Oct. 25-26, Oct. 31 to Nov. 3, Nov. 6, 8-10, 12-14, 1964, Jan. 28 to Feb. 3, Aug. 8, and Sept. 19, 1971.

REMARKS.--Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.2	3.3	32	11	.10	26	12	.91	37	.60	.26	.53
2	1.7	4.6	19	11	.10	27	12	3.4	48	.42	.26	4.1
3	1.0	6.7	19	13	.10	15	11	2.2	19	.31	.31	6.2
4	1.7	6.7	19	30	.25	15	9.7	1.5	11	.26	.22	4.8
5	1.7	5.3	12	15	238	14	5.6	1.9	8.5	.70	.19	4.1
6	1.7	3.3	5.7	9.0	47	29	5.1	67	7.0	.42	.22	6.8
7	1.7	3.3	6.4	3.0	43	28	5.1	44	6.7	.47	.17	5.3
8	2.0	2.7	5.3	2.1	37	17	4.6	60	4.3	.53	.10	2.9
9	10	3.9	5.3	1.8	33	13	4.3	36	3.3	5.3	.40	1.2
10	8.7	5.1	4.3	1.5	21	12	3.1	39	2.3	1.2	1.5	.60
11	3.3	4.3	6.4	1.2	31	16	2.7	25	4.6	4.0	2.5	.42
12	2.7	4.1	13	1.1	33	46	3.1	19	2.7	.91	1.1	.22
13	2.7	3.6	27	.95	39	75	5.1	15	2.0	.75	.75	.22
14	3.5	3.1	26	.78	32	70	4.3	11	1.9	.47	.70	.31
15	5.0	4.1	20	.66	30	121	3.6	9.5	1.2	.47	.50	.22
16	13	3.6	18	.59	30	52	3.8	6.5	.91	.36	.48	.19
17	7.6	3.0	16	.52	150	33	3.8	4.5	.82	.31	.50	.19
18	5.3	3.6	27	.45	173	25	2.9	3.5	.67	.26	.50	.17
19	3.3	3.1	46	.41	361	33	2.5	2.9	7.3	2.5	.50	.10
20	3.1	26	25	.37	344	32	2.7	2.4	1.3	.47	.60	19
21	4.5	15	14	.34	60	25	3.5	2.2	2.0	.36	.42	4.1
22	2.7	10	23	.31	148	23	2.9	4.7	.91	.26	.42	1.3
23	2.5	9.4	25	.30	79	18	2.0	9.0	.75	.36	.45	.60
24	2.3	15	21	.30	29	14	2.7	22	.82	.4	.78	.42
25	2.2	6.1	18	.25	56	13	1.6	59	3.9	.91	.70	4.0
26	2.0	4.3	17	.16	120	12	1.5	34	1.9	.75	.62	8.5
27	2.3	18	15	.12	81	12	1.5	20	1.0	.53	.55	7.3
28	1.9	106	14	.10	37	12	1.2	12	.91	1.1	.51	3.8
29	6.1	118	13	.17	-----	10	1.5	7.5	.60	.60	.51	1.9
30	4.4	65	12	.10	-----	7.9	1.1	5.4	.47	.42	.35	1.2
31	3.9	-----	11	.10	-----	7.2	-----	3.7	-----	.31	.22	-----
TOTAL	116.4	469.0	542.4	105.61	2,417.20	875.8	126.5	532.71	176.76	34.71	17.07	90.69
MEAN	3.77	15.6	17.5	3.41	45.3	24.3	4.22	17.2	5.82	1.12	.55	3.02
MAX	13	116	46	30	344	121	12	67	48	8.4	2.5	19
MIN	1.7	2.2	4.3	.10	.10	7.9	1.1	.91	.47	.26	.10	.10
CFSM	.17	.71	.50	.16	3.54	1.29	.19	.79	.27	.05	.03	.14
IN.	.20	.30	.22	.14	4.11	1.49	.21	.90	.30	.06	.03	.15

CAL YR 1970 TOTAL 5,557.34 MEAN 15.2 MAX 255 MIN .17 CFSM .63 IN 9.44
 WTR YR 1971 TOTAL 5,505.45 MEAN 15.1 MAX 344 MIN .10 CFSM .69 IN 9.35

PEAK DISCHARGE (BASE, 250 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	0200	9.60	470	02-20	0230	11.55	728
02-17	1830	8.15	342	07-22	2000	7.43	285

STREAMS TRIBUTARY TO LAKE ERIE

239

04183000 Maumee River at New Haven, Ind.

LOCATION.--Lat 41°05'06", long 85°01'19", in SE¼NE¼ sec.2, T.30 N., R.13. E., Allen County, on left bank 600 ft upstream from bridge on Landin Road, 1400 ft upstream from the Wabash Railroad Bridge, 0.8 mile north of New Haven, 2.8 miles upstream from Sixmile Creek.

DRAINAGE AREA.--1,967 sq mi.

PERIOD OF RECORD.--December 1946 to September 1956 (high-water records only), October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 724.51 ft above mean sea level. Prior to Sept. 7, 1956, nonrecording gage and Sept. 7, 1956, to Sept. 14, 1965, water-stage recorder at site 500 ft downstream at same datum.

AVERAGE DISCHARGE.--15 years (1956-71), 1,494 cfs (10.13 inches per year).

EXTREMES.--Current year: Maximum discharge, 10,400 cfs Feb. 20 (gage height, 16.29 ft); minimum daily, 105 cfs Aug. 22, Sept. 19. Period of record: Maximum discharge, 19,100 cfs Feb. 16, 1950 (gage height, 21.4 ft at site then in use); minimum daily, 48 cfs Oct. 6, 13, 1963.

REMARKS.--Records good except those for parts of December, January and February, which are fair. Flow regulated by hydro-powerplant on the St. Joseph River 10.3 miles upstream from station. Flow slightly regulated by upstream reservoirs.

REVISIONS.--WSP 2112: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	229	292	2,630	460	140	5,570	997	299	1,220	480	223	107
2	162	348	2,190	450	140	4,360	1,130	434	2,410	492	191	229
3	177	400	1,850	436	140	3,880	1,080	414	2,640	433	176	226
4	153	529	1,750	727	200	3,280	1,130	320	3,350	283	162	201
5	324	468	1,550	696	800	2,600	1,130	409	2,210	264	157	171
6	176	364	1,010	610	5,000	2,260	1,030	2,570	1,600	235	153	271
7	122	416	915	510	3,800	2,840	761	4,240	1,810	244	144	320
8	130	372	763	470	3,000	2,480	912	3,630	2,330	212	136	376
9	205	306	682	435	2,350	1,990	789	3,790	1,930	270	147	273
10	432	408	633	405	2,000	1,820	707	2,970	1,280	353	165	209
11	275	396	628	380	1,800	1,880	682	2,350	920	464	282	201
12	243	420	736	355	1,600	1,960	670	2,070	741	524	165	198
13	243	400	700	340	1,450	4,070	1,820	1,800	669	961	159	180
14	1,090	392	895	320	1,350	4,480	831	1,390	520	690	180	171
15	1,110	404	930	310	1,300	5,190	726	1,050	512	588	120	171
16	696	360	810	290	1,200	6,030	1,050	846	615	467	112	171
17	606	388	763	280	1,350	5,130	825	872	597	318	112	171
18	484	348	800	265	2,500	4,240	833	576	452	244	112	156
19	428	320	1,190	250	4,700	4,050	854	603	538	225	112	105
20	340	633	1,680	235	10,200	4,280	718	449	376	217	150	534
21	352	952	1,900	225	5,520	3,890	386	469	320	204	112	215
22	242	1,070	1,190	210	8,900	3,280	427	384	320	420	105	165
23	310	790	1,370	200	9,400	2,740	712	335	292	314	268	171
24	270	696	1,070	195	8,740	2,260	411	628	268	405	201	209
25	278	565	952	190	8,660	1,870	613	1,580	306	262	130	240
26	254	529	583	180	8,710	1,590	544	2,130	520	206	115	396
27	229	480	570	170	8,860	1,320	494	1,680	348	216	112	863
28	261	1,690	540	165	7,810	1,180	563	1,470	320	240	112	1,410
29	320	2,790	520	160	-----	1,230	441	1,690	356	269	107	790
30	296	3,370	455	150	-----	1,020	397	1,620	437	252	110	626
31	328	-----	480	145	-----	964	-----	1,240	-----	246	107	-----
TOTAL	10,744	20,956	32,815	10,214	115,660	93,734	23,663	44,298	30,207	10,998	4,637	9,524
MEAN	347	699	1,059	329	4,131	3,024	789	1,429	1,007	355	150	317
MAX	1,110	3,370	2,630	727	10,200	6,030	1,820	4,240	3,350	961	282	1,410
MIN	106	292	480	145	140	964	386	299	268	204	105	105
CFSM	.18	.36	.54	.17	2.10	1.54	.40	.73	.51	.18	.08	.16
IN.	.20	.40	.62	.19	2.19	1.77	.45	.84	.57	.21	.09	.18

CAL YR 1970 TOTAL 503,665 MEAN 1,380 MAX 10,200 MIN 98 CFSM .70 IN 9.53
WTR YR 1971 TOTAL 407,450 MEAN 1,116 MAX 10,200 MIN 105 CFSM .57 IN 7.71

PEAK DISCHARGE (BASE, 9,500 CFS)--Feb. 20 (1000) 10,400 cfs (16.29 ft).

STREAMS TRIBUTARY TO LAKE ERIE

04183500 Maumee River at Antwerp, Ohio

LOCATION.--Lat 41°11'56", long 84°44'40", in sec.22, T.3 N., R.1 E., Paulding County, on left bank 425 ft downstream from bridge on State Highway 49, 1 mile north of Antwerp, 7 miles downstream from Indiana State line, and 10 miles upstream from Marie DeLarme Creek.

DRAINAGE AREA.--2,129 sq mi.

PERIOD OF RECORD.--September 1921 to December 1935, April 1939 to current year.

GAGE.--Water-stage recorder. Datum of gage is 694.90 ft above mean sea level. Prior to Sept. 13, 1925, nonrecording gage at site 400 ft upstream at same datum.

AVERAGE DISCHARGE.--46 years, 1,641 cfs (10.47 inches per year).

EXTREMES.--Current year: Maximum discharge, about 13,000 cfs Feb. 20 or 21; maximum gage height, 17.19 Feb. 21 (ice jam); minimum 107 cfs Aug. 23.

Period of record: Maximum discharge, 26,200 cfs May 20, 1943 (gage height, 20.29 ft); minimum, 24 cfs Oct. 17, 1930, June 21, 22, 1933 (gage height, 0.32 ft).

Flood of Mar. 27, 1913, estimated as 40,000 cfs.

REMARKS.--Records good except those for the winter period, which are fair. Low flow slightly regulated by powerplant at Fort Wayne, Indiana, 32 miles upstream. Flow slightly regulated by upstream reservoirs. Water-quality records for the current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1174: 1927, 1933, 1940. WSP 1387: 1922-23, 1925-27, 1934. WRD Ohio 1970: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	293	352	3,010	520	150	6,770	1,060	403	1,210	406	258	120
2	228	334	2,440	500	170	4,490	1,200	359	2,270	451	230	164
3	197	442	2,040	450	190	4,150	1,250	472	2,530	439	207	222
4	207	520	2,600	520	400	3,540	1,210	442	3,130	391	157	266
5	157	560	1,740	700	4,000	2,420	1,230	354	2,430	279	172	239
6	340	442	1,300	920	7,500	2,320	1,200	1,990	1,880	255	163	214
7	151	394	1,110	720	6,000	2,760	1,040	4,490	1,530	233	180	302
8	137	442	955	620	4,400	2,090	560	4,110	1,950	236	153	346
9	155	324	335	540	3,000	2,240	945	3,950	2,160	215	139	342
10	270	357	725	480	2,300	1,830	825	3,570	1,620	271	142	307
11	304	427	690	440	2,000	2,020	755	2,550	1,140	355	220	234
12	304	433	740	410	1,800	1,850	730	2,240	960	427	288	223
13	271	439	915	380	1,700	3,470	1,200	1,950	720	612	180	223
14	397	410	970	360	1,600	4,790	1,500	1,690	645	670	177	207
15	1,540	421	1,070	340	1,500	5,750	725	1,340	455	630	260	197
16	1,050	421	1,030	330	1,400	6,850	1,000	1,640	516	550	144	185
17	710	341	930	320	1,600	4,020	1,620	925	580	436	124	202
18	524	409	900	300	3,600	2,680	405	875	564	325	122	142
19	408	373	1,080	290	5,000	4,340	410	600	434	260	120	200
20	433	415	1,750	280	11,000	4,490	415	604	504	236	120	165
21	365	950	2,040	270	12,000	4,360	665	476	373	233	155	536
22	370	1,170	1,530	260	12,000	3,690	430	472	320	225	142	289
23	319	1,050	1,500	250	11,000	3,050	545	403	324	397	113	200
24	334	215	1,450	240	11,000	2,530	645	374	294	343	242	195
25	313	640	1,220	230	10,200	2,080	484	1,390	260	412	235	225
26	310	594	955	230	4,640	1,790	616	1,950	415	242	145	240
27	255	544	885	220	4,770	1,580	560	2,040	465	228	125	400
28	256	1,200	640	210	5,990	1,330	536	1,540	352	220	117	1,110
29	299	2,430	600	200	-----	1,330	572	1,600	316	252	122	1,240
30	301	3,490	560	200	-----	1,260	445	1,640	358	282	117	790
31	340	-----	540	100	-----	1,120	-----	1,520	-----	266	113	-----
TOTAL	11,982	21,429	30,360	11,950	145,040	102,320	26,011	47,518	31,497	11,134	5,143	9,815
MEAN	386	731	1,237	385	4,680	3,331	867	1,533	1,015	366	166	327
MAX	1,540	3,490	3,010	920	12,000	6,850	1,500	4,490	3,130	670	288	1,240
MIN	137	334	540	190	170	1,120	430	354	260	215	113	120
CFR	0.17	0.34	0.54	0.14	2.43	1.55	0.41	0.72	0.49	0.17	0.08	0.15
IN	0.21	0.36	0.67	0.21	2.53	1.79	0.45	0.84	0.55	0.19	0.09	0.17

CEL Yr 1970 TOTAL 858,077 MEAN 1,231 MAX 11,000 IN 128 CFR 0.72 IN 4.77
 WTR Yr 1971 TOTAL 462,579 MEAN 1,207 MAX 12,000 IN 113 CFR 0.60 IN 4.30

05515000 Kankakee River near North Liberty, Ind.

LOCATION.--Lat 41°33'50", long 86°29'50", In NW¼NE¼ sec.23, T.36 N., R.1 W., St. Joseph County, on left bank at downstream side of bridge on county highway named "New Road", 2.7 miles upstream from Little Kankakee River, and 4 miles northwest of North Liberty.

DRAINAGE AREA.--174 sq mi, of which 58.2 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.--January 1951 to current year.

GAGE.--Water-stage recorder. Datum of gage is 680.04 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to June 26, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--20 years, 144 cfs (11.24 inches per year).

EXTREMES.--Current year: Maximum discharge, 359 cfs Mar. 15 (gage height, 6.28 ft); minimum daily, 49 cfs July 23.

Period of record: Maximum discharge, 686 cfs Oct. 10, 1954; maximum gage height, 9.04 ft June 27, 1968; minimum daily discharge, 46 cfs Sept. 9, 10, 1964.

REMARKS.--Records good except those for parts of January and February, which are fair.

REVISIONS (WATER YEARS).--WSP 1915: 1952, 1956-59. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR (OCTOBER 1970 TO SEPTEMBER 1971)

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	121	174	223	129	78	211	177	116	99	60	71	60
2	117	178	213	124	70	157	175	115	99	59	63	59
3	116	264	202	120	70	187	170	115	77	62	59	60
4	113	256	196	134	80	174	165	114	74	62	59	68
5	112	232	186	134	135	173	161	117	91	60	64	90
6	111	221	179	210	150	175	158	176	92	73	62	200
7	109	205	173	240	240	176	154	167	109	59	60	200
8	110	192	172	235	230	164	150	153	92	65	54	163
9	115	187	168	175	140	163	146	141	87	67	56	136
10	115	190	164	160	150	165	141	133	70	68	63	123
11	114	185	172	140	145	161	138	129	91	95	95	114
12	114	181	180	125	142	164	136	125	97	73	85	107
13	120	176	176	120	142	156	133	122	92	64	73	102
14	220	170	172	120	130	258	132	119	37	53	63	96
15	301	165	166	120	135	335	131	116	85	56	65	92
16	245	162	164	119	133	330	130	114	83	55	63	90
17	215	159	162	118	141	270	129	113	79	59	57	89
18	148	157	160	116	150	263	127	111	78	64	59	87
19	183	155	157	115	221	271	126	110	82	55	57	88
20	175	157	166	114	276	274	126	109	81	53	61	100
21	170	156	161	117	235	256	126	105	82	53	57	109
22	164	156	159	116	210	252	126	104	70	50	55	103
23	162	152	158	114	234	234	125	103	78	49	72	98
24	152	149	152	112	150	219	124	105	75	62	71	94
25	155	148	147	112	136	210	122	106	73	62	71	93
26	152	147	144	110	213	202	121	104	80	63	68	99
27	151	173	143	110	259	197	120	103	71	57	68	102
28	157	247	130	106	236	194	122	101	64	67	67	99
29	200	254	135	100	-----	199	121	100	60	64	64	95
30	201	240	130	95	-----	183	119	99	63	85	63	92
31	136	-----	129	87	-----	179	-----	98	-----	76	60	-----
TOTAL	4,944	5,527	5,165	4,040	4,028	6,652	4,130	3,642	2,520	1,990	2,004	3,108
MEAN	158	167	167	130	127	215	139	117	84.0	64.2	64.6	104
MAX	301	264	228	249	275	336	177	176	109	94	95	200
MIN	109	144	122	87	70	161	119	98	60	49	54	59
CFSM	.91	1.07	.65	.75	.70	1.24	.79	.67	.48	.37	.37	.60
IN.	1.04	1.20	1.10	.86	1.03	1.42	.83	.78	.54	.43	.43	.66

CAL YR 1970 TOTAL 56,735 MEAN 155 MAX 431 MIN 41 CFSM .83 IN 12.13
WTR YR 1971 TOTAL 48,560 MEAN 133 MAX 336 MIN 49 CFSM .76 IN 10.33

ILLINOIS RIVER BASIN

05515400 Kingsbury Creek near LaPorte, Ind.

LOCATION.--Lat 41°32'49", long 86°43'48", in SW $\frac{1}{4}$ SE $\frac{1}{4}$ sec.23, T.36 N., R.3 W., LaPorte County, on left bank at upstream side of bridge on 400 South Road, 0.5 mile west of State Road 39, 1.5 miles east of U.S. Highway 35, and 3 miles south of LaPorte city limits.

DRAINAGE AREA.--7.08 sq mi, of which 4.07 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1970 to current year.

GAGE.--Water-stage recorder. Datum of gage is 753.00 ft above mean sea level.

EXTREMES.--Current year: Maximum discharge, 31 cfs Feb. 5, Sept. 5 (gage height, 4.98 ft); minimum daily, 1.2 cfs Aug. 6, 16, 17, 19-22.

Period of record: Maximum discharge, 31 cfs Feb. 5, Sept. 5, 1971 (gage height, 4.98 ft); minimum daily, 1.2 cfs Aug. 6, 16, 17, 19-22, 1971.

REMARKS.--Records good except those for parts of December, January, and February, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	3.5	4.4	3.5	2.5	4.5	5.2	3.2	1.8	2.0	1.4	1.3
2	3.5	5.9	3.8	3.4	2.4	4.3	4.5	3.2	1.8	1.9	1.4	1.3
3	3.4	6.2	4.0	3.5	2.5	4.1	4.3	3.2	1.7	1.8	1.4	1.3
4	3.3	4.9	3.7	4.0	5.5	4.1	4.1	3.1	1.6	2.3	1.4	3.2
5	3.5	4.4	3.5	3.5	1.9	4.3	4.0	3.5	1.5	4.1	1.4	9.5
6	3.4	4.3	3.4	3.3	8.0	5.2	4.0	7.9	5.8	2.6	1.2	1.3
7	3.3	3.9	3.4	3.2	5.8	4.9	4.1	4.3	6.7	2.2	1.3	7.9
8	3.7	3.8	3.5	3.2	4.5	4.4	4.0	3.4	3.4	2.3	1.3	4.4
9	4.0	4.5	3.7	3.2	3.9	4.3	4.0	3.2	2.9	2.2	1.4	3.2
10	3.5	4.4	3.5	3.3	3.7	4.4	3.9	3.0	2.6	2.1	2.6	2.8
11	3.3	4.1	4.9	3.3	3.8	4.3	3.9	3.1	2.5	2.1	3.0	2.4
12	3.3	4.0	4.3	3.2	3.8	5.1	4.0	2.9	2.5	1.9	1.7	2.3
13	3.7	3.8	3.9	3.2	3.4	6.7	4.0	2.8	2.4	1.9	1.4	2.3
14	11	3.7	3.7	3.1	3.3	7.6	3.9	2.6	2.3	1.7	1.4	2.3
15	5.3	3.7	3.7	3.0	3.1	11	3.8	2.5	2.2	1.8	1.3	2.1
16	4.1	3.7	4.0	2.9	3.1	6.4	3.8	2.4	2.1	1.7	1.2	2.1
17	3.8	3.7	4.0	2.8	7.3	5.5	3.9	2.3	1.9	1.7	1.2	2.2
18	3.7	3.7	4.1	2.8	8.3	5.5	3.7	2.2	1.9	1.6	1.3	2.1
19	3.4	3.7	4.3	2.7	12	7.1	3.5	2.2	1.9	1.7	1.2	2.9
20	3.4	4.9	4.1	2.7	9.9	5.9	3.4	2.1	2.1	1.7	1.2	4.5
21	3.4	3.9	4.1	2.8	5.8	5.6	3.5	2.0	2.2	1.5	1.2	3.1
22	3.3	3.7	4.3	3.0	5.5	5.3	3.4	2.0	2.1	1.4	1.2	2.5
23	3.2	3.2	4.1	3.1	4.9	4.9	3.4	2.0	2.1	1.5	1.4	2.4
24	3.1	3.3	3.8	3.1	4.5	5.1	3.3	2.1	2.0	1.9	1.4	2.4
25	3.1	3.5	3.7	3.5	5.2	5.1	3.3	2.1	2.2	1.7	1.6	2.5
26	3.2	3.9	3.6	3.5	6.7	4.9	3.3	1.9	2.4	1.9	1.4	3.5
27	3.2	5.9	3.5	3.2	6.4	5.1	3.4	1.8	2.0	1.6	1.5	3.0
28	6.1	6.5	3.5	3.1	4.8	5.2	3.4	1.7	1.9	2.4	1.4	2.6
29	5.5	4.8	3.5	2.9	-----	5.1	3.3	1.6	1.8	2.2	1.3	2.4
30	3.9	4.3	3.5	2.9	-----	4.9	3.2	1.7	1.8	1.8	1.3	2.4
31	3.5	-----	3.5	2.7	-----	5.1	-----	1.6	-----	1.5	1.3	-----
TOTAL	121.8	127.8	119.0	97.5	159.6	165.9	113.5	83.6	72.1	60.7	44.7	98.9
MEAN	3.93	4.26	3.84	3.15	5.70	5.35	3.78	2.70	2.40	1.96	1.44	3.30
MAX	11	6.5	4.9	4.0	19	11	5.2	7.9	6.7	4.1	3.0	13
MIN	3.1	3.2	3.4	2.7	2.4	4.1	3.2	1.6	1.5	1.4	1.2	1.3
CFSM	.56	.60	.54	.44	.81	.76	.53	.38	.34	.28	.20	.47
IN.	.64	.67	.63	.51	.84	.87	.60	.44	.39	.32	.23	.52

WTR YR 1971 TOTAL 1,265.1 MEAN 3.47 MAX 19 MIN 1.2 CFSM .49 IN 6.65

PEAK DISCHARGE (BASE, 15 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-14	1045	4.35	16	03-15	0300	4.28	15
02-05	0245	4.98	31	06-06	1930	4.51	21
02-17	1700	4.30	16	09-05	2115	4.98	31
02-19	1645	4.28	15				

05515500 Kankakee River at Davis, Ind.

LOCATION.--Lat 41°24'00", long 86°42'04", in SE¼NE¼ sec.13, T.34 N., R.3 W., Starke County, on left bank at downstream side of bridge on U.S. Highway 30 at Davis, 0.5 mile downstream from Mill Creek, and 4 miles east of Hanna.

DRAINAGE AREA.--537 sq mi, of which 137 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.--July 1905 to July 1906 and October 1924 to current year. Monthly discharge only for some periods, published in WSP 1308.

GAGE.--Water-stage recorder. Datum of gage is 664.68 ft above mean sea level. July 13, 1905, to July 21, 1906, nonrecording gage at site 50 ft downstream at different datum. July 28, 1925, to May 18, 1929, nonrecording gage on bridge 0.5 mile downstream at different datum. Apr. 19, 1931, to Nov. 3, 1953, nonrecording gage at present site and datum.

AVERAGE DISCHARGE.--47 years (1924-71), 482 cfs (12.19 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,050 cfs Mar. 16 (gage height, 10.36 ft); minimum daily, 208 cfs Aug. 22. Period of record: Maximum discharge, 1,700 cfs Dec. 15, 1927 (gage height, 9.50 ft, site and datum then in use), from rating curve extended above 520 cfs; maximum gage height at present site and datum, 11.76 ft Oct. 16-18, 1954; minimum daily discharge, 154 cfs Aug. 30 to Sept. 3, 1941.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1338: 1953. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	490	566	708	432	280	743	608	396	324	264	247	217
2	473	555	677	428	250	684	599	393	329	250	233	218
3	454	743	644	426	250	634	579	395	328	235	227	215
4	438	857	619	439	300	595	557	391	318	236	226	228
5	430	840	590	435	670	576	536	393	304	263	227	280
6	441	791	561	428	800	572	526	499	311	274	223	468
7	432	732	541	584	830	585	517	580	455	241	218	560
8	426	662	531	660	780	564	507	533	417	235	212	500
9	438	626	526	579	600	541	495	491	369	252	209	429
10	452	626	513	503	540	538	484	459	347	257	222	376
11	446	615	522	458	500	529	476	441	343	264	295	347
12	434	601	545	421	500	526	471	435	344	269	299	328
13	432	584	550	399	500	587	472	421	337	257	266	319
14	564	563	540	395	470	734	468	407	328	248	247	308
15	818	544	524	390	460	934	465	398	316	244	236	298
16	820	530	516	386	450	1,050	456	389	301	246	230	292
17	752	520	511	385	480	1,030	452	378	294	241	221	290
18	686	513	507	380	576	989	446	370	286	242	217	296
19	626	508	508	376	732	970	438	363	290	238	218	286
20	592	517	506	389	860	970	433	355	289	227	217	330
21	568	524	498	380	840	941	426	349	283	221	214	349
22	545	519	495	378	754	908	433	342	278	210	208	335
23	527	502	495	376	703	864	425	338	278	211	222	318
24	512	491	480	373	654	818	419	336	277	220	223	306
25	497	486	471	373	621	778	412	336	271	232	238	304
26	487	484	455	368	660	745	408	347	278	223	239	332
27	482	500	455	370	774	710	406	348	272	227	244	341
28	486	582	448	360	800	690	409	334	256	227	246	332
29	584	692	441	340	-----	662	408	326	247	287	232	319
30	630	721	432	320	-----	642	402	324	240	271	224	308
31	610	-----	433	300	-----	624	-----	323	-----	260	222	-----
TOTAL	16,572	17,994	16,242	12,831	16,634	22,733	14,135	12,190	9,310	7,572	7,202	9,819
MEAN	535	600	524	414	594	733	471	393	310	244	232	327
MAX	820	857	708	660	860	1,050	608	580	455	287	299	560
MIN	426	484	432	300	250	526	402	323	240	210	208	215
CFSM	1.00	1.12	.98	.77	1.11	1.37	.88	.73	.58	.45	.43	.61
IN.	1.15	1.25	1.13	.89	1.15	1.57	.98	.84	.64	.52	.50	.68
CAL YR 1970	TOTAL 197,066	MEAN 540	MAX 1,190	MIN 306	CFSM 1.01	IN 13.65						
WTR YR 1971	TOTAL 163,234	MEAN 447	MAX 1,050	MIN 208	CFSM .83	IN 11.31						

05516000 Yellow River near Bremen, Ind.

LOCATION.--Lat 41°25'11", long 86°10'14", in NW¼ sec. 10, T.34 N., R.3 E., Marshall County, on left bank at downstream side of bridge on East 4 th Road, 0.5 mile downstream from Bunch ditch, 2 miles southwest of Bremen, and 4 miles upstream from Dausman ditch.

DRAINAGE AREA.--132 sq mi.

PERIOD OF RECORD.--August 1955 to current year.

GAGE.--Water-stage recorder. Datum of gage is 784.63 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission).

AVERAGE DISCHARGE.--16 years, 96.6 cfs (9.72 inches per year).

EXTREMES.--Current year: Maximum discharge, 932 cfs Feb. 5 (gage height, 11.55 ft); minimum daily, 7.7 cfs Sept. 24, 30.
Period of record: Maximum discharge, 1,650 cfs Dec. 26, 1965 (gage height, 13.99 ft); minimum daily, 6.2 cfs Oct. 17, 1964.

REMARKS.--Records good except those for part of December, January, and part of February, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

JAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	32	55	147	30	13	186	86	26	29	41	9.3	8.5
2	29	63	134	29	13	143	87	27	86	24	9.3	8.5
3	27	247	113	29	12	113	81	26	38	16	9.0	8.5
4	25	204	100	36	40	92	70	25	27	14	9.0	9.0
5	25	124	44	50	741	83	64	26	23	14	9.0	11
6	25	46	74	40	434	96	61	146	22	13	8.5	29
7	24	40	64	33	727	150	54	139	25	13	8.3	28
8	24	64	62	27	453	103	55	87	22	12	8.1	15
9	27	60	60	26	240	96	51	65	19	13	8.3	11
10	34	67	53	26	125	90	46	53	18	13	9.8	9.8
11	34	64	76	26	115	83	45	47	18	13	25	9.3
12	24	67	103	26	200	89	44	44	18	13	19	8.8
13	24	60	75	26	140	241	44	39	18	13	12	8.8
14	104	54	83	25	100	604	42	34	16	11	9.8	8.3
15	125	45	72	23	75	764	40	30	16	11	9.3	8.1
16	74	44	64	22	65	710	39	28	15	11	9.3	8.8
17	55	42	65	21	90	455	37	27	15	13	9.0	8.9
18	47	34	60	20	421	331	37	25	14	12	9.0	8.3
19	40	37	43	27	545	308	36	23	15	12	9.0	8.5
20	36	57	42	20	605	337	35	22	14	11	9.3	11
21	35	47	75	19	341	269	36	20	14	11	9.0	9.0
22	33	74	71	15	222	341	36	20	13	11	9.0	8.8
23	31	56	65	17	222	234	33	19	13	11	23	8.1
24	30	47	55	14	146	165	31	20	13	13	16	7.7
25	24	43	44	14	144	135	24	22	13	11	12	8.1
26	24	43	44	14	371	123	23	14	14	11	9.8	9.0
27	27	54	40	14	471	119	28	18	13	10	9.0	8.3
28	33	305	37	17	257	118	24	18	12	13	8.8	8.3
29	113	127	34	16	-----	110	28	16	16	12	8.3	7.9
30	107	241	32	15	-----	95	27	16	20	11	9.5	7.7
31	72	-----	31	14	-----	84	-----	16	-----	10	8.5	-----
TOTAL	1,305	2,055	2,258	744	7,462	6,880	1,364	1,143	609	417	331.2	309.9
MEAN	42.1	66.3	72.8	24.0	231	222	42.4	35.4	20.3	13.5	10.7	10.3
MAX	125	327	147	50	545	764	87	146	86	41	25	29
MIN	24	34	31	14	12	83	27	16	12	10	8.1	7.7
CFS/IN	.34	.75	.55	.10	2.13	1.68	.34	.23	.15	.10	.08	.08
IN.	.30	.93	.64	.21	2.22	1.74	.38	.32	.17	.12	.09	.09
CAL YR 1970	TOTAL 43,107.5	MEAN 110	MAX 1,070	MIN 9.1	CFS/IN .33	IN 11.30						
WTH YR 1971	TOTAL 26,244.1	MEAN 72.0	MAX 895	MIN 7.7	CFS/IN .55	IN 7.41						

PEAK DISCHARGE (BASE, 800 CFS).--Feb. 5 (2045) 932 cfs (11.55 ft). Mar. 15 (2100) 823 cfs (10.56 ft).

05516500 Yellow River at Plymouth, Ind.

LOCATION.--Lat 41°20'25", long 86°18'16", in SE¼NW¼ sec.13, T.33 N., R.2 E., Marshall County, on left bank 50 ft upstream from LaPorte Street footbridge in Plymouth, 1.1 miles downstream from Elmer Seldenright (formerly Baker) ditch, and 8.1 miles upstream from Wolf Creek.

DRAINAGE AREA.--284 sq mi.

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 764.78 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Aug. 27, 1959, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 241 cfs (11.13 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,540 cfs Feb. 7 (gage height, 10.99 ft); minimum daily, 24 cfs Sept. 24.
Period of record: Maximum discharge, 5,390 cfs Oct. 12, 13, 1954 (gage height, 17.13 ft); minimum daily, 13 cfs, Dec. 3, 7, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1338: 1950-51, drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	63	160	625	113	49	550	218	45	56	87	28	29
2	66	158	444	111	47	398	212	47	178	95	29	28
3	62	490	337	110	45	303	206	50	163	69	28	28
4	63	658	290	126	100	242	181	46	104	59	31	29
5	57	427	234	132	1,060	212	153	42	86	59	29	34
6	56	312	205	140	1,320	212	145	158	80	60	28	49
7	56	256	179	118	1,530	326	135	372	108	56	26	73
8	60	205	165	98	1,440	260	129	266	67	50	26	56
9	67	179	151	94	1,070	203	116	199	61	59	32	42
10	114	179	142	54	603	220	105	158	51	58	40	36
11	146	179	142	94	356	197	97	132	50	60	47	32
12	126	181	205	93	385	208	94	135	49	48	54	31
13	105	179	210	88	367	484	94	129	47	43	44	31
14	187	156	201	88	258	862	91	111	43	37	36	30
15	304	140	178	88	156	1,150	84	101	41	33	33	28
16	238	124	158	88	163	1,310	79	91	38	35	32	28
17	176	113	156	77	216	1,290	77	86	37	35	32	28
18	134	108	143	67	718	989	73	76	37	34	32	28
19	111	107	154	70	1,030	742	70	72	39	34	32	28
20	100	137	194	74	1,140	785	67	66	40	33	32	32
21	94	250	185	73	1,030	696	67	64	41	32	32	33
22	90	230	179	73	672	692	70	60	41	32	32	31
23	83	178	172	69	614	647	64	58	42	29	37	28
24	77	137	148	72	444	484	60	58	43	34	54	24
25	73	122	138	72	367	345	56	60	42	31	47	26
26	70	114	124	62	640	304	52	61	45	31	38	31
27	69	114	160	62	900	286	50	60	44	32	33	32
28	74	361	140	62	981	284	52	53	43	37	32	32
29	181	751	119	58	-----	256	51	51	44	40	30	29
30	306	792	111	54	-----	226	47	50	60	34	28	26
31	216	-----	116	52	-----	212	-----	50	-----	32	28	-----
TOTAL	3,026	7,495	6,104	2,672	17,671	15,370	2,995	3,007	1,820	1,408	1,061	991
MEAN	117	250	197	86.2	631	496	99.8	97.0	60.7	45.4	34.2	33.0
MAX	306	792	625	140	1,500	1,310	218	372	178	95	54	73
MIN	56	107	111	52	45	197	47	42	37	29	26	24
CFSM	.41	.84	.69	.30	2.22	1.75	.35	.34	.21	.16	.12	.12
IN.	.47	.98	.80	.35	2.31	2.01	.39	.39	.24	.18	.14	.13

CAL YR 1970 TOTAL 96,925 MEAN 266 MAX 1,910 MIN 37 CFSM .94 IN 12.70
WTR YR 1971 TOTAL 64,220 MEAN 176 MAX 1,500 MIN 24 CFSM .62 IN 8.41

05517000 Yellow River at Knox, Ind.

LOCATION.--Lat 41°18'10", long 86°37'14", in SW 1/4 sec. 14, T.33 N., R.2 W., Starke County, on right bank 40 ft upstream from bridge on U.S. Highway 35 in Knox, 1.5 miles downstream from Eagle Creek, and 9 miles upstream from mouth.

DRAINAGE AREA.--425 sq mi.

PERIOD OF RECORD.--August 1905 to July 1906, August 1943 to current year.

GAGE.--Water-stage recorder. Datum of gage is 679.93 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). August 1905 to July 1906, nonrecording gage at same site at different datum. August 1943 to July 17, 1952, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--28 years (1943-71), 373 cfs (11.64 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,190 cfs Feb. 6 (gage height, 8.69 ft); minimum daily, 83 cfs Aug. 31 to Sept. 3. Period of record: Maximum discharge, 5,660 cfs Oct. 15, 16, 1954 (gage height, 13.75 ft); minimum daily, 50 cfs Jan. 21-31, 1963.

REMARKS.--Records good except those for part of December, January, and part of February, which are fair.

REVISIONS (WATER YEARS).--WSP 1278: 1952. WSP 1338: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	233	293	680	205	120	748	321	195	143	115	103	83
2	218	272	615	205	110	560	332	198	155	128	100	83
3	210	339	505	210	110	451	328	203	215	135	100	83
4	198	505	439	220	150	391	318	200	213	118	98	86
5	198	575	403	200	500	339	297	198	185	115	96	93
6	213	473	367	170	1,220	328	286	233	180	113	93	115
7	215	403	339	170	2,100	355	283	311	355	110	93	138
8	208	363	318	170	2,050	395	283	371	276	108	91	138
9	210	325	307	180	1,900	343	269	300	220	118	95	119
10	218	314	300	185	1,400	318	260	258	190	123	110	103
11	233	311	297	195	750	314	253	240	180	128	125	98
12	243	311	304	195	450	304	245	230	180	138	140	95
13	235	304	335	195	500	363	245	220	173	118	125	91
14	238	293	335	190	430	540	245	213	160	110	110	90
15	246	276	321	185	350	754	240	203	153	118	105	88
16	339	265	307	180	320	925	233	193	148	118	98	89
17	304	255	297	175	300	1,120	230	185	140	113	96	91
18	265	240	203	170	455	1,070	228	183	135	110	92	91
19	245	243	290	170	736	918	223	175	138	107	90	90
20	235	250	293	170	953	706	220	170	133	107	88	95
21	225	269	311	170	967	690	218	168	133	103	86	101
22	220	321	307	170	932	645	218	160	128	100	85	100
23	215	307	297	170	718	635	218	158	125	100	86	95
24	208	276	275	170	600	595	213	158	123	112	88	91
25	203	253	255	165	478	478	208	160	123	113	103	91
26	200	245	240	160	473	419	205	160	120	115	100	100
27	198	243	230	155	665	391	203	158	115	107	93	103
28	203	265	225	145	766	375	203	153	112	110	90	100
29	228	431	220	140	-----	371	200	150	110	123	86	98
30	290	650	215	130	-----	355	200	145	107	115	84	95
31	335	-----	210	120	-----	332	-----	140	-----	108	83	-----
TOTAL	7,269	9,875	10,130	5,435	20,503	16,528	7,425	6,189	4,868	3,556	3,032	2,931
MEAN	234	321	327	175	732	533	248	200	162	115	97.8	97.7
MAX	339	650	680	220	2,100	1,120	332	371	355	138	140	138
MIN	198	243	210	120	110	304	200	140	107	100	83	83
CFSM	.55	.77	.77	.41	1.72	1.25	.58	.47	.38	.27	.23	.23
IN.	.64	.86	.89	.48	1.79	1.45	.65	.54	.43	.31	.27	.26

CAL YR 1970 TOTAL 127,607 MEAN 350 MAX 2,240 MIN 166 CFSM .82 IN 11.17
 WTR YR 1971 TOTAL 97,744 MEAN 268 MAX 2,100 MIN 83 CFSM .63 IN 8.56

PEAK DISCHARGE (BASE, 1,600 CFS).--Feb. 6 (2400) 2,190 cfs (8.69 ft).

05517500 Kankakee River at Dunns Bridge, Ind.

LOCATION.--Lat 41°13'17", long 86°57'52", In NE¼SE¼ sec.15, T.32 N., R.5 W., Jasper County, on left bank at downstream side of county highway bridge at Dunns Bridge, 1.8 miles north of Tafft, and 3.5 miles upstream from Davis ditch.

DRAINAGE AREA.--1,352 sq mi, of which 192 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 649.65 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 17, 1956, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 1,243 cfs (12.49 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,590 cfs Mar. 20 (gage height, 9.15 ft); minimum daily, 401 cfs Sept. 2.

Period of record: Maximum discharge, 5,300 cfs Oct. 22, 1954 (gage height, 13.20 ft); minimum daily, 280 cfs Jan. 25-29, 1963.

REMARKS.--Records good except those for part of December, January, and part of February, which are fair.

REVISIONS (WATER YEARS).--WSP 1728: 1954(m). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,350	1,310	1,740	1,030	650	2,020	1,570	940	700	575	528	406
2	1,260	1,270	1,800	1,000	560	1,970	1,540	937	718	567	409	401
3	1,200	1,400	1,770	1,000	560	1,820	1,500	928	752	533	481	406
4	1,120	1,660	1,690	1,000	660	1,680	1,450	917	932	525	473	406
5	1,080	1,820	1,590	980	1,300	1,560	1,390	926	749	554	463	455
6	1,100	1,860	1,490	900	1,800	1,510	1,390	1,000	724	588	453	675
7	1,110	1,850	1,410	1,000	1,800	1,500	1,350	1,200	1,140	541	440	568
8	1,100	1,750	1,350	1,200	1,700	1,480	1,320	1,300	1,420	536	429	973
9	1,100	1,680	1,310	1,030	1,500	1,450	1,280	1,260	1,280	596	427	884
10	1,130	1,630	1,240	970	1,300	1,420	1,250	1,180	1,130	653	460	780
11	1,120	1,570	1,240	920	1,200	1,380	1,210	1,110	1,020	650	551	657
12	1,100	1,520	1,260	900	1,100	1,350	1,190	1,080	1,020	658	506	648
13	1,100	1,480	1,280	900	1,050	1,400	1,150	1,040	984	635	562	616
14	1,210	1,440	1,300	880	1,000	1,560	1,160	1,010	920	577	515	593
15	1,460	1,390	1,290	880	960	1,870	1,140	970	867	551	479	572
16	1,610	1,350	1,270	880	950	2,210	1,120	942	819	554	453	554
17	1,630	1,320	1,260	880	980	2,380	1,100	914	774	554	434	554
18	1,530	1,300	1,250	880	1,200	2,470	1,080	892	741	533	427	554
19	1,430	1,280	1,240	880	1,500	2,550	1,060	872	744	528	414	540
20	1,350	1,290	1,230	880	1,910	2,580	1,040	850	763	512	424	601
21	1,280	1,300	1,210	880	2,100	2,550	1,030	830	727	494	424	663
22	1,220	1,320	1,220	880	2,150	2,470	1,030	791	687	471	408	663
23	1,170	1,300	1,210	880	2,140	2,380	1,010	780	655	455	406	635
24	1,130	1,260	1,200	860	2,020	2,280	996	772	663	481	416	558
25	1,080	1,240	1,180	850	1,870	2,170	973	780	653	497	481	588
26	1,050	1,210	1,120	840	1,790	2,040	965	777	668	489	507	642
27	1,020	1,220	1,100	830	1,860	1,930	951	780	650	481	479	718
28	1,010	1,270	1,100	820	1,970	1,830	956	769	616	494	473	718
29	1,140	1,400	1,100	800	-----	1,750	951	746	564	588	450	687
30	1,280	1,570	1,100	780	-----	1,670	951	732	564	508	424	655
31	1,310	-----	1,080	740	-----	1,610	-----	718	-----	562	414	-----
TOTAL	37,780	43,260	40,620	28,150	39,580	58,840	35,143	28,743	24,514	17,030	14,409	12,960
MEAN	1,219	1,442	1,310	908	1,414	1,898	1,171	927	817	549	465	429
MAX	1,630	1,860	1,800	1,200	2,150	2,580	1,570	1,300	1,420	654	606	973
MIN	1,010	1,210	1,080	740	560	1,350	951	718	564	455	406	401
CFSM	.90	1.07	.97	.67	1.05	1.40	.87	.69	.60	.41	.34	.47
IN.	1.04	1.19	1.12	.77	1.09	1.62	.97	.79	.67	.47	.40	.52
CAL YR 1970	TOTAL 504,516	MEAN 1,382	MAX 3,440	MIN 513	CFSM 1.02	IN 13.98						
WTR YR 1971	TOTAL 385,920	MEAN 1,260	MAX 2,580	MIN 401	CFSM .78	IN 10.65						

ILLINOIS RIVER BASIN

05517900 State ditch near Kouts, Ind.

LOCATION.--Lat 41°19'08", long 87°04'55", in SW1/4 sec. 11, T.33 N., R.6 W., Porter County, on left bank 15 ft upstream from bridge on State Highway 8, 700 ft upstream from mouth, and 3 miles west of Kouts.

DRAINAGE AREA.--31.7 sq mi.

PERIOD OF RECORD.--July 1968 to current year.

GAGE.--Water-stage recorder. Datum of gage is 652.00 ft above mean sea level (State Highway Commission bench mark).

EXTREMES.--Current year: Maximum daily discharge, 290 cfs Feb. 5; maximum gage height, 8.63 ft, probably occurred Feb. 5, from recorded range in stage (ice jam); minimum daily discharge, 11 cfs Feb. 3.
Period of record: Maximum discharge, 444 cfs June 18, 1970 (gage height, 7.17 ft); maximum gage height, 8.63 ft, probably occurred Feb. 5, 1971, from recorded range in stage (ice jam); minimum daily discharge, 11 cfs Oct. 23, 1968, Feb. 3, 1971.

REMARKS.--Records good except those for parts of December, January and February, which are fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	24	32	14	13	30	26	19	19	16	15	14
2	20	26	30	14	12	27	27	19	18	16	15	14
3	19	45	28	15	11	25	26	19	17	16	15	14
4	19	35	26	17	70	24	24	19	17	16	15	14
5	21	32	26	21	290	23	24	19	17	31	14	22
6	22	29	24	19	169	28	23	22	21	19	14	140
7	20	26	23	19	176	28	23	24	169	18	14	42
8	22	24	23	17	69	25	23	21	37	50	14	27
9	29	25	23	17	52	23	23	20	27	53	14	22
10	26	27	22	17	39	22	22	20	26	33	15	21
11	23	27	25	16	29	22	22	20	34	25	25	20
12	23	25	32	15	23	26	22	19	26	21	17	19
13	22	23	30	14	19	88	22	19	22	19	15	19
14	119	23	27	14	18	103	22	18	20	18	15	19
15	93	23	24	14	19	124	21	18	19	17	14	17
16	45	23	24	14	21	74	21	18	19	17	14	16
17	36	22	23	14	57	54	21	18	18	16	14	16
18	31	23	23	14	100	48	21	17	18	16	14	16
19	27	23	23	14	110	107	21	17	31	16	14	16
20	27	29	23	14	72	82	21	17	19	16	14	19
21	26	28	22	14	37	60	20	18	18	15	14	19
22	24	25	22	14	60	50	20	17	17	15	14	19
23	24	24	21	14	68	42	20	17	17	15	13	17
24	23	22	21	14	37	36	20	18	17	17	14	17
25	22	22	20	14	37	31	20	17	17	16	17	17
26	21	22	19	15	47	30	20	18	16	17	15	19
27	21	22	19	16	66	30	20	17	16	15	14	19
28	24	45	17	15	36	28	19	17	16	17	14	18
29	38	39	17	14	-----	27	19	17	16	17	14	17
30	30	35	16	13	-----	26	19	17	16	16	14	17
31	26	-----	15	13	-----	26	-----	17	-----	15	14	-----
TOTAL	943	818	719	468	1,682	1,369	652	573	760	624	458	684
MEAN	30.4	27.3	23.2	15.1	60.1	44.2	21.7	18.5	25.3	20.1	14.8	22.8
MAX	119	45	32	21	290	124	27	24	169	53	25	140
MIN	19	22	15	13	11	22	19	17	16	15	13	14
CFSM	.96	.96	.73	.49	1.90	1.39	.68	.58	.80	.63	.47	.72
IN.	1.11	.96	.84	.55	1.77	1.61	.77	.67	.99	.73	.54	.80

CAL YR 1970 TOTAL 12,956 MEAN 35.2 MAX 368 MIN 12 CFSM 1.11 IN 15.09
WTR YR 1971 TOTAL 9,750 MEAN 26.7 MAX 290 MIN 11 CFSM .84 IN 11.44

PEAK DISCHARGE (BASE, 150 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
10-14	2100	5.11	195	03-13	2400	4.85	164
02-05	----	----	290	03-19	1600	4.73	153
02-18	2300	5.35	210	06-07	0400	5.90	272
02-22	2300	4.75	154	09-06	0500	5.21	196

a maximum daily

05518000 Kankakee River at Shelby, Ind.

LOCATION.--Lat 41°10'58", long 87°20'33", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.33, T.32 N., R.8 W., Lake County, on right bank 25 ft upstream from Monon Railroad bridge, 1 mile south of Shelby, and 9 miles upstream from Beaver Lake Creek.

DRAINAGE AREA.--1,779 sq mi, of which 201 sq mi does not contribute directly to surface runoff.

PERIOD OF RECORD.--October 1922 to current year. Monthly discharge only for some periods, published in WSP 1308.

GAGE.--Water-stage recorder. Datum of gage is 628.13 ft above mean sea level. Prior to Dec. 19, 1934, nonrecording gage at highway bridge about 400 ft upstream. Dec. 19, 1934, to Oct. 4, 1965, water-stage recorder on left bank 50 ft downstream, and Oct. 5, 1965, to Sept. 21, 1966, nonrecording gage on right bank 200 ft upstream. All at same datum.

AVERAGE DISCHARGE.--49 years, 1,530 cfs (11.68 inches per year).

EXTREMES.--Current year: Maximum discharge, 3,590 cfs Mar. 20 (gage height, 9.01 ft); maximum gage height, 9.61 ft Feb. 20 (ice jam); minimum daily discharge, 490 cfs Sept. 3.

Period of record: Maximum discharge, 7,200 cfs Dec. 21, 1927 (gage height, 11.40 ft, site then in use), from rating curve extended above 3,000 cfs by gage-height relation study with site below railroad bridge; minimum daily, 260 cfs Jan. 13-15, 1954.

REMARKS.--Records good except those for parts of January and February, which are fair.

REVISIONS (WATER YEARS).--WSP 1005: 1928(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,260	1,920	2,070	1,860	340	2,590	2,240	1,220	930	745	701	502
2	1,860	1,900	2,210	1,830	750	2,590	2,210	1,210	940	735	665	492
3	1,740	1,900	2,240	1,800	750	2,420	2,150	1,200	945	721	638	490
4	1,810	2,140	2,220	1,250	860	2,320	2,020	1,190	959	701	623	495
5	1,500	2,320	2,120	1,200	1,720	2,120	1,020	1,140	763	752	605	532
6	1,600	2,450	1,200	1,120	2,330	2,040	1,210	1,230	923	794	587	1,010
7	1,610	2,460	1,970	1,440	2,500	2,020	1,360	1,360	1,180	752	572	1,490
8	1,620	2,370	1,770	1,400	2,430	2,030	1,240	1,200	1,650	731	562	1,500
9	1,710	2,260	1,700	1,350	2,230	1,650	1,240	1,550	1,440	654	552	1,370
10	1,760	2,210	1,740	1,300	1,920	1,720	1,540	1,490	1,420	968	568	1,170
11	1,720	2,130	1,630	1,260	1,720	1,380	1,420	1,410	1,320	980	647	1,030
12	1,670	2,070	1,670	1,240	1,620	1,460	1,520	1,320	1,400	947	710	929
13	1,630	1,700	1,660	1,220	1,530	1,410	1,560	1,320	1,250	896	707	863
14	1,700	1,900	1,650	1,200	1,400	2,140	1,540	1,270	1,120	833	659	824
15	2,140	1,710	1,620	1,200	1,320	2,540	1,500	1,230	1,110	772	623	776
16	2,240	1,750	1,720	1,200	1,320	2,520	1,420	1,150	1,060	755	593	755
17	2,310	1,730	1,650	1,220	1,420	2,020	1,450	1,160	1,010	749	568	743
18	2,240	1,670	1,650	1,200	1,420	2,120	1,420	1,130	963	723	552	734
19	2,110	1,640	1,630	1,200	2,420	3,000	1,400	1,110	764	713	542	731
20	1,600	1,640	1,600	1,200	2,420	3,420	1,400	1,220	772	707	542	809
21	1,630	1,600	1,600	1,200	2,220	3,490	1,250	1,050	746	696	542	920
22	1,740	1,600	1,670	1,200	3,020	3,640	1,350	1,030	710	662	538	923
23	1,670	1,660	1,670	1,200	2,320	3,320	1,320	1,010	876	644	523	875
24	1,610	1,620	1,610	1,200	2,410	3,230	1,330	968	850	653	524	854
25	1,560	1,570	1,490	1,140	2,640	3,020	1,270	1,020	852	662	596	815
26	1,540	1,590	1,470	1,150	2,530	2,780	1,250	1,000	950	665	644	887
27	1,430	1,540	1,620	1,120	2,550	2,410	1,240	925	846	656	608	1,040
28	1,600	1,500	1,640	1,100	2,520	2,600	1,240	902	828	662	572	1,070
29	1,620	1,740	1,670	1,090	-----	2,250	1,240	968	783	740	560	1,020
30	1,760	1,700	1,420	1,050	-----	2,430	1,220	959	742	776	525	965
31	1,620	-----	1,400	1,020	-----	2,410	-----	830	-----	743	510	-----
TOTAL	55,140	56,010	54,220	37,720	56,020	40,420	42,260	36,347	21,230	23,790	10,364	26,614
MEAN	1,777	1,807	1,733	1,217	1,797	2,053	1,575	1,172	1,031	754	592	887
MAX	2,310	2,460	2,240	1,440	2,500	2,540	2,240	1,550	1,650	980	717	1,500
MIN	1,430	1,540	1,430	1,090	750	1,340	1,220	839	742	644	510	490
CFS	1.13	1.06	1.05	.62	1.11	1.45	.82	.66	.59	.42	.33	.50
IN.	1.15	1.18	1.13	.72	1.15	1.43	.80	.76	.65	.49	.38	.56
WATER YEAR 1970	TOTAL 663,699	MEAN 1,814	MAX 4,020	MIN 700	CFS 1.02	IN 13.44						
WATER YEAR 1971	TOTAL 621,253	MEAN 1,428	MAX 3,440	MIN 400	CFS .90	IN 10.00						

ILLINOIS RIVER BASIN

05519000 Singleton ditch at Schneider, Ind.

LOCATION.--Lat 41°12'44", long 87°26'44", In SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 22, T. 32 N., R. 9 W., Lake County, on left bank 15 ft upstream from bridge on Ackerman Avenue, 0.5 mile upstream from Bruce ditch, 1.5 miles downstream from Cedar Creek, and 1.6 miles north of Schneider.

DRAINAGE AREA.--123 sq mi.

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 623.67 ft above mean sea level. Prior to Oct. 1, 1949, nonrecording gage at same site at datum 2.00 ft higher. Oct. 1, 1949, to Aug. 13, 1951, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 94.9 cfs (10.48 inches per year).

EXTREMES.--Current year: Maximum discharge observed, 615 cfs Feb. 5; maximum gage height, 10.54 ft Feb. 5 (ice jam); minimum daily discharge, 14 cfs Aug. 31, Sept. 1-4.

Period of record: Maximum discharge, 1,160 cfs May 14, 1970 (gage height, 11.24 ft); minimum daily, 3.6 cfs Sept. 7, 8, 10, 1964.

REMARKS.--Records good except those for part of December, January, and part of February, which are poor.

REVISIONS (WATER YEARS).--WSP 1915: 1956-59. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	90	150	142	40	17	177	100	40	32	19	23	14
2	87	140	132	39	16	145	103	40	32	17	21	14
3	78	219	116	45	15	123	95	40	30	17	22	14
4	79	209	113	70	100	107	93	38	28	18	21	14
5	90	202	95	52	560	100	76	39	28	35	20	17
6	232	175	82	41	400	107	73	44	28	35	19	97
7	150	154	78	38	270	110	70	45	86	25	19	72
8	145	134	75	35	190	96	67	42	60	40	19	48
9	265	128	74	35	140	92	65	40	42	72	18	39
10	202	146	71	36	100	88	63	39	34	92	19	14
11	158	145	91	36	76	84	61	40	34	93	23	32
12	132	132	115	35	58	94	59	41	42	67	19	31
13	118	123	113	36	52	217	57	39	36	50	18	30
14	418	113	105	37	46	323	55	37	32	41	17	28
15	499	107	92	35	45	372	53	35	30	35	17	27
16	329	100	91	30	49	354	51	36	28	32	16	26
17	238	96	85	28	70	262	51	34	26	31	16	26
18	198	92	83	26	160	221	49	35	25	28	16	25
19	175	86	84	25	460	301	48	34	39	27	16	26
20	160	93	86	24	436	329	47	34	36	27	16	31
21	154	97	84	23	250	262	48	34	30	29	16	35
22	140	89	81	24	221	223	48	31	28	28	15	33
23	128	89	77	25	288	193	46	32	26	25	15	31
24	119	86	72	27	197	163	46	32	25	29	15	30
25	109	84	66	28	172	140	44	32	25	28	22	30
26	101	82	60	25	218	127	43	32	24	26	18	43
27	95	77	54	22	326	120	44	32	23	24	17	56
28	124	124	48	20	231	119	43	30	21	26	16	51
29	264	155	45	21	-----	112	43	29	19	36	15	48
30	217	160	42	20	-----	103	41	30	17	30	15	44
31	178	-----	40	18	-----	97	-----	28	-----	26	14	-----
TOTAL	5,471	3,786	2,592	996	5,163	5,361	1,772	1,114	966	1,108	553	1,046
MEAN	176	126	83.6	32.1	184	173	59.1	35.9	32.2	35.7	17.8	34.9
MAX	499	219	142	70	560	372	103	45	86	93	23	97
MIN	78	77	40	18	15	84	41	28	17	17	14	14
CFSM	1.43	1.02	.68	.26	1.50	1.41	.48	.29	.26	.29	.14	.28
IN.	1.65	1.15	.78	.30	1.56	1.62	.54	.34	.29	.34	.17	.32

CAL YR 1970 TOTAL 47,611 MEAN 130 MAX 1,040 MIN 18 CFSM 1.06 IN 14.40
WTR YR 1971 TOTAL 29,928 MEAN 82.0 MAX 560 MIN 14 CFSM .67 IN 9.05

PEAK DISCHARGE (BASE, 730 CFS).--No peak above base.

05519500 West Creek near Schneider, Ind.

LOCATION.--Lat 41°12'52", long 87°29'36", in NW¼NE¼ sec.19, T.32 N., R.9 W., Lake County, on left bank at downstream side of county highway bridge, 1.2 miles upstream from Singleton ditch, and 2.8 miles northwest of Schneider.

DRAINAGE AREA.--54.7 sq mi.

PERIOD OF RECORD.--July 1948 to December 1951, January 1954 to current year.

GAGE.--Water-stage recorder. Datum of gage is 627.86 ft above mean sea level (levels by Soil Conservation Service). Prior to Mar. 17, 1950, nonrecording gage 75 ft below bridge at same datum. Mar. 17, 1950 to Dec. 31, 1951, Jan. 1, 1954 to June 10, 1956, nonrecording gage, at present site and datum.

AVERAGE DISCHARGE.--20 years, 40.9 cfs (10.15 inches per year).

EXTREMES.--Current year: Maximum daily discharge, 500 cfs Feb. 5; maximum gage height, 7.44 ft Feb. 5 (ice jam); minimum daily discharge, 7.0 cfs Aug. 2, 7-9, 15-19, 21, 22, 29, 31, Sept. 1, 2, 4, 18, 24.
Period of record: Maximum discharge, 1,840 cfs Oct. 10, 11, 1954 (gage height, 8.06 ft, from graph based on gage readings); minimum daily, 2.6 cfs Sept. 29, 1957.

REMARKS.--Records good except those for part of December, January, and part of February, which are poor.

REVISIONS (WATER YEARS).--WSP 1388: 1952(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	45	50	17	8.8	67	33	14	11	7.5	7.5	7.0
2	16	42	47	18	8.2	50	31	14	11	7.5	7.0	7.0
3	13	70	42	18	7.8	41	29	15	11	7.5	9.3	7.3
4	12	67	39	19	25	36	27	14	9.9	7.5	8.5	7.0
5	16	72	34	25	500	34	25	14	9.6	9.9	7.5	8.3
6	16	65	34	20	200	41	24	22	9.6	8.8	7.3	24
7	14	50	28	17	130	47	23	25	9.6	8.0	7.0	21
8	22	42	28	15	90	38	23	20	9.3	12	7.0	15
9	50	41	28	14	70	32	23	19	9.3	19	7.0	11
10	38	48	27	14	52	31	21	18	8.8	26	8.3	9.6
11	31	48	33	15	37	30	20	18	9.6	25	13	8.8
12	27	44	47	16	27	38	20	18	9.3	16	8.3	8.3
13	25	41	49	18	23	119	20	17	9.0	11	7.5	7.8
14	241	38	45	24	21	164	19	16	9.0	9.6	7.3	7.8
15	218	38	39	17	22	256	18	14	8.5	8.8	7.0	7.2
16	139	36	38	15	23	165	18	14	8.3	8.3	7.0	7.3
17	90	34	35	14	30	104	18	13	8.0	8.3	7.0	7.3
18	67	32	34	13	180	78	17	13	7.8	8.0	7.0	7.0
19	52	32	42	12	260	161	16	12	23	7.8	7.0	7.8
20	45	32	41	11	180	152	17	12	16	7.8	7.5	9.3
21	45	32	36	10	116	106	18	11	11	7.5	7.0	8.5
22	41	32	34	10	94	81	17	11	9.6	7.5	7.0	7.8
23	37	30	33	10	116	65	17	11	9.0	7.8	7.3	7.3
24	34	26	29	11	77	53	16	11	8.8	9.3	7.3	7.0
25	30	24	25	12	65	44	16	11	8.8	8.8	13	7.8
26	30	23	22	13	102	39	15	11	8.8	8.3	9.3	9.9
27	28	25	20	11	162	37	15	11	8.3	7.8	8.0	9.3
28	47	47	18	10	87	36	16	11	7.8	9.0	7.5	8.3
29	115	53	17	9.4	-----	35	15	10	7.5	11	7.0	7.8
30	79	56	16	9.4	-----	33	14	10	7.5	8.8	8.5	7.3
31	57	-----	16	9.0	-----	32	-----	9.9	-----	8.0	7.0	-----
TOTAL	1,692	1,265	1,026	446.8	2,713.8	2,245	601	439.9	294.7	318.1	243.9	276.8
MEAN	54.6	42.2	33.1	14.4	96.9	72.4	20.0	14.2	9.82	10.3	7.87	9.23
MAX	241	72	50	25	500	256	33	25	23	26	13	24
MIN	13	23	16	9.0	7.8	30	14	9.9	7.5	7.5	7.0	7.0
CFSM	1.00	.77	.61	.26	1.77	1.32	.37	.26	.18	.19	.14	.17
IN.	1.15	.86	.70	.30	1.85	1.53	.41	.30	.20	.22	.17	.19
CAL YR 1970	TOTAL 20,777.4	MEAN 56.9	MAX 1,410	MIN 7.8	CFSM 1.04	IN 14.13						
WTR YR 1971	TOTAL 11,563.0	MEAN 31.7	MAX 500	MIN 7.0	CFSM .58	IN 7.86						

ILLINOIS RIVER BASIN

05520000 Singleton ditch at Illinoi, Ill.

LOCATION.--Lat 41°11'20", long 87°31'35", in SW 1/4 sec. 8, T. 31 N., R. 15 E., Kankakee County, Illinois, 50 ft downstream from county highway bridge at Illinoi, beside the Cleveland, Cincinnati, Chicago and St. Louis Railway, and at Indiana-Illinois State line.

DRAINAGE AREA.--220 sq mi.

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 620.33 ft above mean sea level. Prior to Aug. 28, 1953, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 166 cfs (10.25 inches per year).

EXTREMES.--Current year: Maximum daily discharge, 1,100 cfs Feb. 5; maximum gage height, 9.76 ft Feb. 5 (ice jam); minimum daily discharge, 25 cfs Sept. 2, 3.

Period of record: Maximum discharge, 2,040 cfs Feb. 14, 23, 1959; maximum gage height, 10.11 ft Mar. 4, 1963 (backwater from ice); minimum daily discharge, 6.0 cfs Sept. 8, 9, 1964.

REMARKS.--Records good except those for part of December, January, and part of February, which are fair.

REVISIONS (WATER YEARS).--WSP 1338: 1948(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	145	285	239	73	33	311	156	70	56	34	40	26
2	137	240	228	79	31	259	167	70	58	31	37	25
3	126	270	207	92	29	224	156	70	55	29	41	25
4	116	360	199	130	730	196	139	68	50	30	40	26
5	122	328	177	100	1,100	199	129	69	48	57	37	33
6	289	296	160	80	920	199	122	85	49	64	35	56
7	214	258	145	70	600	200	117	97	106	46	34	144
8	181	228	140	64	400	180	109	88	93	60	33	105
9	356	218	135	64	370	170	109	82	67	117	32	86
10	314	240	130	69	220	160	103	79	58	129	34	75
11	244	242	157	70	160	160	97	81	60	159	55	70
12	208	228	199	71	110	170	95	83	68	117	42	67
13	185	212	204	72	170	362	96	78	61	89	37	64
14	462	198	193	68	30	567	94	74	55	75	34	59
15	429	191	173	64	86	743	89	69	52	66	31	55
16	641	182	168	58	30	666	88	69	49	60	30	53
17	440	173	160	54	170	479	86	65	46	55	29	52
18	343	166	155	50	260	374	83	64	44	50	27	50
19	293	159	155	47	800	545	80	63	81	49	26	51
20	264	170	160	44	1,000	619	80	63	78	48	29	63
21	254	170	159	43	584	484	81	61	62	47	26	72
22	240	167	154	45	370	393	82	59	56	45	26	71
23	221	160	152	47	518	325	79	57	52	41	26	68
24	206	157	140	49	358	249	79	58	49	47	26	53
25	191	152	125	52	307	228	75	61	49	48	48	63
26	178	148	110	48	385	209	73	61	47	43	40	97
27	167	140	100	41	572	195	75	58	43	40	34	110
28	167	204	92	39	408	192	77	55	40	44	31	101
29	365	250	85	39	-----	182	74	54	34	63	29	92
30	407	257	80	37	-----	170	71	52	31	53	29	85
31	317	-----	75	35	-----	156	-----	52	-----	45	26	-----
TOTAL	8,728	6,449	4,756	1,891	10,071	9,575	2,960	2,115	1,677	1,892	1,042	2,097
MEAN	282	215	153	61.0	360	309	98.7	68.2	56.6	61.0	33.6	69.9
MAX	420	360	235	130	1,100	743	167	97	106	159	55	156
MIN	116	140	75	35	29	156	71	52	31	29	26	25
CFSM	1.28	.98	.70	.28	1.64	1.43	.45	.31	.26	.28	.15	.32
IN.	1.48	1.09	.80	.32	1.70	1.62	.50	.36	.29	.32	.18	.35

CAL YR 1970 TOTAL 85,317 MEAN 234 MAX 1,700 MIN 28 CFSM 1.06 IN 14.43
WTR YR 1971 TOTAL 53,273 MEAN 146 MAX 1,100 MIN 25 CFSM .66 IN 9.01

PEAK DISCHARGE (BASE, 1,100 CFS).--Feb. 5 (Unknown) 1,100 cfs (Unknown). Feb. 20 (1400) 1,190 cfs (7.43 ft).

a maximum daily

05520500 Kankakee River at Momence, Ill.

LOCATION.--Lat 41°09'36", long 87°40'07", in NE¼ sec.24, T.31 N., R.13 E., Kankakee County, on right bank at Hill Street in Momence, 0.2 mile downstream from bridge on State Highways 1 and 17, and 1.2 miles upstream from Tower Creek.

DRAINAGE AREA.--2,340 sq mi, approximately.

PERIOD OF RECORD.--February to December 1905, February to July 1906, December 1914 to current year.

GAGE.--Water-stage recorder. Datum of gage is 609.18 ft above mean sea level. Prior to Aug. 1, 1938, nonrecording gage at site 0.2 mile upstream at datum 1.00 ft higher. Aug. 1, 1938, to Aug. 8, 1969, water-stage recorder at present site at datum 1.00 ft higher.

AVERAGE DISCHARGE.--56 years (1915-71), 1,860 cfs (10.79 inches per year).

EXTREMES.--Current year: Maximum discharge, about 5,200 cfs Feb. 21; minimum, 595 cfs Aug. 24.

Period of record: Maximum discharge, 10,100 cfs Apr. 25, 1950 (gage height, 5.06 ft); maximum gage height observed, 8.09 ft Jan. 25, 1930, site and datum then in use (ice jam); minimum discharge observed 306 cfs Sept. 1, 16, 17, 1919.

REMARKS.--Records good except those for winter periods, which are poor.

REVISIONS (WATER YEARS).--WSP 1238: 1916, 1930. WSP 1308: 1915(M), 1917(M), 1919(M), 1922(M), 1926(M), 1934-35(M), 1938(M).

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,690	2,350	2,240	1,500	1,000	3,500	3,100	1,490	973	739	786	640
2	2,470	2,350	2,350	1,500	1,000	3,500	3,030	1,480	975	728	750	629
3	2,230	2,500	2,460	1,400	1,000	3,400	2,970	1,450	970	715	740	623
4	2,070	2,600	2,530	1,370	1,200	3,300	2,860	1,430	970	702	722	625
5	1,960	2,780	2,510	1,800	3,000	3,100	2,740	1,420	981	774	700	563
6	2,050	2,890	2,380	1,600	3,200	3,000	2,620	1,480	962	825	686	1,060
7	1,960	2,920	2,280	1,500	3,000	2,870	2,540	1,530	997	808	671	1,550
8	1,960	2,940	2,140	1,600	2,900	2,700	2,460	1,640	1,340	778	657	1,750
9	2,260	2,930	2,040	1,600	2,500	2,400	2,370	1,750	1,550	893	646	1,730
10	2,280	2,870	1,940	1,600	2,300	2,430	2,290	1,790	1,590	1,020	651	1,630
11	2,230	2,810	1,930	1,600	2,200	2,360	2,230	1,750	1,560	1,320	725	1,480
12	2,170	2,720	1,970	1,600	2,000	2,320	2,190	1,680	1,480	1,240	753	1,310
13	2,120	2,590	2,000	1,600	1,900	2,610	2,140	1,600	1,390	1,120	772	1,190
14	2,090	2,460	1,990	1,600	1,800	3,230	2,100	1,570	1,310	1,010	754	1,100
15	3,570	2,330	1,950	1,600	1,700	3,890	2,060	1,450	1,220	916	715	1,730
16	3,330	2,220	1,950	1,500	1,700	4,020	2,020	1,370	1,130	855	685	992
17	3,220	2,120	1,940	1,500	1,700	4,040	1,990	1,310	1,060	825	658	957
18	3,130	2,030	1,940	1,500	2,500	4,140	1,950	1,260	1,000	806	638	935
19	3,020	1,980	2,010	1,400	3,500	4,510	1,900	1,210	1,040	784	626	936
20	2,910	1,960	2,010	1,400	4,500	4,780	1,860	1,180	1,050	769	625	934
21	2,770	1,960	1,940	1,400	5,000	4,710	1,820	1,140	1,010	755	623	1,110
22	2,430	1,950	1,910	1,500	4,500	4,680	1,780	1,110	961	733	617	1,190
23	2,410	1,840	1,880	1,500	4,000	4,590	1,740	1,070	920	713	611	1,160
24	2,240	1,830	1,740	1,500	3,700	4,420	1,700	1,060	982	716	610	1,110
25	2,110	1,810	1,810	1,500	3,500	4,210	1,650	1,050	875	724	732	1,070
26	2,020	1,750	1,910	1,500	3,400	4,030	1,620	1,050	862	722	733	1,160
27	1,930	1,770	1,740	1,400	3,400	3,850	1,600	1,030	851	711	732	1,380
28	1,960	1,850	1,660	1,300	3,530	3,730	1,600	1,010	836	724	701	1,490
29	2,380	2,000	1,600	1,200	-----	3,580	1,570	998	803	766	690	1,480
30	2,400	2,120	1,600	1,200	-----	3,410	1,520	978	760	823	677	1,410
31	2,380	-----	1,600	1,100	-----	3,250	-----	961	-----	822	653	-----
TOTAL	75,550	69,230	61,930	45,870	75,630	110,640	64,020	41,247	32,308	25,836	21,339	34,474
MEAN	2,437	2,300	1,998	1,480	2,701	3,569	2,134	1,331	1,077	833	686	1,149
MAX	3,570	2,940	2,530	1,800	5,000	4,780	3,100	1,790	1,590	1,320	786	1,780
MIN	1,930	1,750	1,600	1,100	1,000	2,320	1,520	961	760	702	610	623
CFSM	1.04	.99	.85	.63	1.15	1.53	.91	.57	.46	.36	.29	.49
IN.	1.20	1.10	.98	.73	1.20	1.76	1.02	.66	.51	.41	.34	.55

CAL YR 1970 TOTAL 835,008 MEAN 2,288 MAX 8,990 MIN 700 CFSM .98 IN 13.27
WTR YR 1971 TOTAL 558,074 MEAN 1,903 MAX 5,000 MIN 610 CFSM .77 IN 10.46

ILLINOIS RIVER BASIN

05521000 Iroquois River at Rosebud, Ind.

LOCATION.--Lat 41°02'00", long 87°10'49", in NW¼SW¼ sec.24, T.30 N., R.7 W., Jasper County, 100 ft downstream from bridge on county road, 0.5 mile north of Rosebud, 0.5 mile downstream from confluence of Swain and Dexter ditches, 1.5 miles upstream from Davidson ditch, and 2 miles east of Parr.

DRAINAGE AREA.--35.6 sq mi.

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 661.47 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to Oct. 1, 1953, nonrecording gage on downstream side of county road bridge at same datum.

AVERAGE DISCHARGE.--23 years, 23.8 cfs (9.08 inches per year).

EXTREMES.--Current year: Maximum discharge, 259 cfs Feb. 5 (gage height, 6.85 ft); minimum daily, 3.7 cfs Aug. 24.
Period of record: Maximum discharge, 422 cfs Apr. 4, 1950; maximum gage height, 8.86 ft Feb. 10, 1959; minimum daily discharge, 0.5 cfs Oct. 11, 12, 19, 1964.

REMARKS.--Records good.

REVISIONS (WATER YEARS).--WSP 1338: 1950-53. WSP 1728: 1959-60(M). WSP 1915: 1959-60. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	23	27	5.4	4.1	30	45	12	9.7	5.2	10	6.7
2	16	22	26	10	4.0	26	55	13	9.7	5.0	8.8	6.1
3	15	42	25	12	4.5	22	40	12	9.1	4.4	8.0	5.5
4	14	41	25	15	55	19	33	12	8.6	4.0	7.4	5.1
5	14	37	23	24	2.0	17	29	12	8.3	9.5	7.0	5.1
6	13	31	23	11	73	22	27	19	9.5	9.5	6.4	38
7	12	28	20	8.0	44	21	25	15	29	7.5	5.9	39
8	22	26	18	7.0	31	20	24	21	17	23	5.6	21
9	39	25	18	7.4	24	20	23	22	13	43	5.3	16
10	31	26	17	8.0	20	18	21	20	11	35	8.0	13
11	25	26	17	8.0	17	19	20	19	15	31	13	12
12	23	26	18	8.0	14	24	20	21	35	30	5.1	11
13	23	25	15	5.0	12	41	18	19	24	19	7.0	9.8
14	39	23	18	11	11	48	17	18	15	14	5.9	9.3
15	36	22	16	9.0	10	89	16	16	12	12	5.3	7.5
16	30	21	14	8.0	25	67	16	16	9.8	11	5.0	6.7
17	27	20	15	7.2	40	49	16	15	8.6	9.3	4.6	6.4
18	24	19	15	6.6	92	44	15	13	7.7	8.0	4.3	6.1
19	21	18	16	6.2	83	63	14	13	20	7.4	4.2	5.9
20	20	20	15	5.8	66	56	14	13	17	6.6	4.2	15
21	20	22	14	5.6	27	45	15	12	32	6.2	4.2	23
22	18	23	15	6.0	66	40	15	12	15	6.1	3.5	17
23	17	21	15	6.2	43	35	14	12	12	5.5	3.8	13
24	16	19	13	6.4	27	32	14	12	10	5.2	3.7	11
25	15	17	12	6.6	28	30	13	12	9.5	5.1	35	11
26	15	17	11	6.0	43	29	13	11	8.5	7.0	25	61
27	14	16	10	5.0	53	30	12	11	7.5	7.0	14	71
28	19	17	10	4.5	35	29	14	10	6.9	14	11	47
29	34	20	9.5	4.8	-----	27	13	10	6.1	23	8.8	40
30	31	25	5.0	5.0	-----	25	12	9.7	5.6	15	7.5	32
31	27	-----	9.0	4.5	-----	25	-----	9.5	-----	12	6.5	-----
TOTAL	687	718	512.5	251.2	1,181.6	1,062	624	446.2	402.1	400.5	258.8	571.2
MEAN	22.2	23.9	16.5	8.10	42.2	34.3	20.8	14.4	13.4	12.9	8.25	19.0
MAX	39	42	27	24	230	89	55	22	35	43	35	71
MIN	12	16	5.0	4.5	4.0	17	12	9.5	5.6	4.0	3.7	5.1
CFSM	.62	.67	.46	.23	1.15	.56	.58	.40	.38	.36	.23	.53
IN.	.72	.75	.54	.26	1.23	1.11	.65	.47	.42	.42	.27	.60

CAL YR 1970 TOTAL 8,968.2 MEAN 24.6 MAX 225 MIN 2.6 CFSM .65 IN 5.37
WTR YR 1971 TOTAL 7,115.1 MEAN 19.5 MAX 230 MIN 3.7 CFSM .55 IN 7.43

PEAK DISCHARGE (BASE, 150 CFS).--Feb. 5 (0300) 259 cfs (6.85 ft).

05522000 Iroquois River near North Marion, Ind.

LOCATION.--Lat 40°58'12", long 87°06'50", in NE¼NW¼ sec.16, T.29 N., R.6 W., Jasper County, on downstream side of county highway bridge (revised), 1.2 miles upstream from Ryan ditch, 2 miles east of North Marion, and 3.5 miles northeast of Rensselaer.

DRAINAGE AREA.--144 sq mi.

PERIOD OF RECORD.--December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 646.68 ft above mean sea level. Prior to Sept. 6, 1955, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--22 years (1949 to current year), 116 cfs (10.94 inches per year).

EXTREMES.--Current year: Maximum discharge, 698 cfs Feb. 5 (gage height, 10.03 ft); minimum daily, 14 cfs Feb. 2, 3, July 3.
Period of record: Maximum discharge, 2,040 cfs June 10, 1958 (gage height, 15.09 ft); minimum daily, 1.6 cfs Sept. 15, 1964.

REMARKS.--Records good except those for part of December, January, and part of February, which are poor. Water can be diverted from Oliver ditch, an upstream tributary, into Ryan ditch, which enters below station.

REVISIONS.--WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	81	101	140	40	15	154	145	39	29	16	25	21
2	74	105	123	45	14	117	243	40	36	15	26	19
3	65	272	112	54	14	57	219	37	27	14	26	19
4	58	208	98	70	120	86	161	31	24	15	22	15
5	54	178	83	62	625	89	131	37	24	58	20	19
6	51	150	60	42	673	97	117	62	31	60	17	80
7	48	134	58	35	622	103	107	69	184	35	17	121
8	63	117	59	28	451	97	98	76	188	92	20	76
9	130	110	60	25	341	57	91	63	93	256	15	53
10	128	127	62	30	155	83	82	54	59	181	18	43
11	104	123	78	30	135	85	78	57	131	145	51	38
12	91	115	86	25	100	101	75	81	298	129	37	35
13	92	106	82	31	72	196	75	61	186	86	27	32
14	164	95	74	33	60	224	71	47	87	60	25	30
15	186	39	66	30	52	311	68	46	53	47	26	27
16	143	83	64	27	48	400	70	42	41	41	22	28
17	115	80	63	25	114	360	68	42	32	32	21	29
18	58	75	65	24	214	294	61	39	27	31	18	28
19	86	76	71	23	350	278	55	36	46	37	15	30
20	83	126	63	22	344	221	46	34	43	21	21	52
21	88	121	55	21	240	291	56	32	77	23	24	68
22	82	113	60	23	157	255	55	31	49	20	22	55
23	74	87	64	23	269	219	51	34	38	21	21	47
24	73	84	56	23	184	181	48	34	33	26	20	41
25	70	94	52	24	145	155	45	31	26	26	108	39
26	65	84	46	25	202	138	43	29	25	34	54	137
27	64	88	42	18	264	132	42	27	23	27	46	283
28	76	103	40	17	218	132	48	24	22	34	34	275
29	143	133	38	18	-----	122	45	22	17	77	27	194
30	142	155	37	18	-----	110	41	23	16	42	23	124
31	117	-----	28	16	-----	106	-----	25	-----	31	23	-----
TOTAL	2,508	3,436	2,099	935	6,230	5,431	2,535	1,305	1,565	1,732	515	2,065
MEAN	81.8	115	67.7	30.2	226	175	84.5	42.1	65.5	55.9	20.6	68.8
MAX	186	208	140	70	673	400	243	81	258	256	108	283
MIN	48	76	37	16	14	83	41	22	16	14	15	18
CFSM	.65	.80	.47	.21	1.57	1.22	.59	.29	.45	.39	.21	.48
IN.	.75	.89	.54	.24	1.64	1.40	.65	.34	.51	.45	.24	.53

CAL YR 1970 TOTAL 43,216.2 MEAN 118 MAX 544 MIN 7.4 CFSM .82 IN 11.16
WTR YR 1971 TOTAL 31,660.0 MEAN 86.7 MAX 673 MIN 14 CFSM .60 IN 8.18

PEAK DISCHARGE (BASE, 420 CFS).--Feb. 5 (2100) 698 cfs (10.03 ft).

ILLINOIS RIVER BASIN

05522500 Iroquois River at Rensselaer, Ind.

LOCATION.--Lat 40°56'00", long 87°07'44", in NW¼SE¼ sec.29, T.29 N., R.6 W., Jasper County, on right bank 20 ft downstream from bridge on State Highway 114, 0.8 mile east of Rensselaer, 1.5 miles downstream from Ryan ditch, and 5.5 miles upstream from Slough Creek.

DRAINAGE AREA.--203 sq mi.

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 642.29 ft above mean sea level (levels by Indiana Flood Control and Water Resources Commission). Prior to July 8, 1949, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 151 cfs (10.10 inches per year).

EXTREMES.--Current year: Maximum discharge, 1,080 cfs Feb. 5 (gage height, 11.22 ft); minimum daily, 14 cfs July 3, Aug. 19.
Period of record: Maximum discharge, 2,550 cfs June 10, 1958 (gage height, 16.54 ft); minimum daily, 2.2 cfs Sept. 9, 15, 16, 1964.

REMARKS.--Records good except those for part of December, January, and part of February, which are poor.

REVISIONS.--WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECCND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	CCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	102	140	178	50	21	212	200	56	39	19	35	31
2	93	200	162	52	20	175	327	57	77	16	31	26
3	83	268	150	58	15	148	284	56	56	14	30	25
4	73	255	135	92	130	126	209	49	44	21	26	28
5	65	215	121	80	1,000	134	174	55	38	86	22	33
6	66	182	57	60	981	144	158	80	39	82	17	105
7	62	163	52	50	922	154	145	91	265	49	15	159
8	77	146	90	40	845	137	133	101	254	157	21	102
9	146	138	88	40	560	131	124	86	128	442	21	71
10	146	154	52	41	350	129	112	74	82	297	20	56
11	124	151	105	41	240	132	106	82	188	251	53	47
12	110	143	121	40	170	158	103	141	486	198	47	41
13	112	134	118	42	120	300	103	102	291	134	33	38
14	154	122	108	45	90	345	98	74	145	92	26	35
15	214	116	57	41	72	446	93	68	91	70	28	30
16	183	108	54	37	62	533	94	60	69	58	22	30
17	160	105	50	35	82	455	93	55	56	48	21	32
18	130	103	50	33	300	372	85	48	47	43	18	31
19	110	100	103	31	470	367	79	45	63	48	14	32
20	110	127	56	30	400	413	70	43	71	31	21	53
21	105	144	52	25	330	366	80	40	95	32	26	61
22	100	135	53	31	371	319	80	39	66	25	21	61
23	52	59	57	31	377	266	75	41	50	27	21	54
24	60	100	61	31	244	215	72	42	44	33	20	47
25	80	98	99	32	156	187	68	39	34	33	114	45
26	76	98	72	33	271	170	62	37	33	43	120	141
27	90	102	65	25	357	166	58	34	28	35	67	348
28	140	118	60	23	289	166	65	30	28	44	51	344
29	190	155	55	24	-----	155	62	27	22	90	42	230
30	180	185	52	25	-----	143	57	28	19	54	37	147
31	160	-----	50	23	-----	137	-----	30	-----	39	34	-----
TOTAL	3,663	4,304	3,047	1,245	9,293	7,301	3,469	1,810	2,948	2,611	1,074	2,483
MEAN	118	143	98.3	40.2	332	236	116	58.4	98.3	84.2	34.6	82.8
MAX	214	268	178	92	1,000	533	327	141	486	442	120	348
MIN	62	98	50	23	19	126	57	27	19	14	14	25
CFSM	.58	.70	.48	.20	1.64	1.16	.57	.29	.48	.41	.17	.41
IN.	.67	.79	.56	.23	1.70	1.34	.64	.33	.54	.48	.20	.46
CAL YR 1970	TOTAL 56,527.8	MEAN 155	MAX 1,310	MIN 7.9	CFSM .76	IN 10.36						
WTH YR 1971	TOTAL 43,249.0	MEAN 118	MAX 1,000	MIN 14	CFSM .58	IN 7.93						

05523000 Bice ditch near South Marion, Ind.

LOCATION.--Lat 40°52'00", long 87°05'32", in NE 1/4 sec. 22, T. 28 N., R. 6 W., Jasper County, on left bank at upstream side of bridge on State Highway 16, 2 miles upstream from Slough Creek, 3 miles southeast of South Marion, and 5 miles southeast of Rensselaer.

DRAINAGE AREA.--21.8 sq mi.

PERIOD OF RECORD.--December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 651.30 ft above mean sea level. Prior to Aug. 5, 1955, nonrecording gage, and Aug. 5, 1955, to Sept. 30, 1965, water-stage recorder at present site at datum 2.00 ft higher.

AVERAGE DISCHARGE.--22 years (1949-71), 15.9 cfs (9.90 inches per year).

EXTREMES.--Current year: Maximum discharge, 802 cfs Feb. 5 (gage height, 9.91 ft); minimum daily, 0.59 cfs Sept. 2.

Period of record: Maximum discharge, 958 cfs Dec. 21, 1967 (gage height, 10.89 ft); no flow at times during 1952, 1955, and 1964.

REMARKS.--Records good except those for parts of December, January and February, which are fair.

REVISIONS (WATER YEARS).--WSP 1508: 1956. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16	15	35	2.0	.82	17	54	2.5	2.5	1.0	.68	.63
2	14	28	23	2.0	.78	15	50	2.8	2.9	.82	.68	.59
3	10	70	21	2.5	.78	11	29	2.7	2.3	.75	.63	.68
4	8.0	42	16	11	20	5.0	20	2.5	2.2	1.7	.68	1.0
5	7.1	30	13	6.8	384	8.4	16	2.8	2.8	16	.75	9.4
6	6.5	22	9.4	5.0	89	16	14	13	5.4	6.5	.75	20
7	5.6	18	7.7	3.0	31	15	11	12	20	3.8	.63	5.2
8	27	15	8.0	1.6	19	10	9.7	25	8.0	4.6	.63	2.5
9	58	16	8.0	1.5	10	9.0	8.0	17	5.0	16	.68	1.7
10	40	20	6.8	1.4	6.2	13	6.5	11	3.8	13	.75	1.4
11	25	17	11	1.6	5.0	14	6.5	17	4.8	66	2.3	1.0
12	21	17	11	1.8	4.3	33	6.2	21	15	28	1.3	.90
13	23	14	10	2.0	3.5	57	6.8	15	32	13	.75	.90
14	60	12	8.7	2.5	2.8	55	6.5	10	17	7.1	.63	.75
15	35	11	7.4	2.1	2.3	119	5.5	7.4	8.7	4.8	.68	.75
16	25	9.4	8.7	1.9	2.0	71	5.4	6.2	5.6	3.6	.68	.92
17	15	8.7	8.7	1.8	29	46	5.2	5.2	4.4	2.8	.68	.90
18	16	9.0	9.7	1.6	123	38	4.6	4.6	3.4	2.3	.63	1.0
19	13	8.4	9.7	1.4	108	62	4.4	4.2	13	2.2	.68	2.5
20	15	22	6.8	1.3	59	47	4.4	3.4	7.7	1.9	.75	2.2
21	15	20	7.1	1.3	23	34	4.6	3.0	5.2	1.4	.68	1.4
22	14	17	7.7	1.2	93	29	4.0	2.8	3.8	1.1	.63	1.1
23	12	10	8.0	1.1	50	27	3.6	3.0	3.0	1.1	.63	.90
24	11	8.7	5.9	1.3	25	15	3.6	3.4	2.3	1.9	1.5	1.9
25	5.7	7.7	4.6	1.3	22	13	3.2	3.4	2.3	1.3	10	7.1
26	8.7	7.7	3.8	1.2	35	14	2.8	2.5	1.9	1.3	1.7	5.0
27	8.7	8.4	3.2	1.1	45	15	3.2	2.2	1.5	1.0	.50	3.4
28	16	15	2.5	1.1	21	15	3.4	2.2	1.3	1.3	.75	2.7
29	44	48	2.5	1.0	-----	13	2.8	2.0	1.1	1.7	.68	2.3
30	28	47	2.3	.52	-----	10	2.7	2.2	1.0	1.0	.63	2.0
31	19	-----	2.1	.88	-----	10	-----	2.0	-----	.75	.63	-----
TOTAL	634.3	595.0	289.7	67.20	1,222.48	858.4	308.0	214.0	189.8	209.72	35.07	82.62
MEAN	20.5	19.8	9.25	2.17	43.7	27.7	10.3	6.50	6.33	6.77	1.13	2.75
MAX	60	70	35	11	394	118	54	25	32	66	10	20
MIN	5.6	7.7	2.1	.88	.78	8.4	2.7	2.0	1.0	.75	.63	.59
CFSM	.54	.91	.43	.10	2.00	1.27	.47	.32	.29	.31	.05	.13
IN.	1.08	1.02	.45	.11	2.05	1.46	.53	.37	.32	.36	.06	.14

CAL YR 1970 TOTAL 7,752.12 MEAN 21.2 MAX 465 MIN .62 CFSM .57 IN 13.23
 WTR YR 1971 TOTAL 4,706.25 MEAN 12.9 MAX 384 MIN .59 CFSM .59 IN 8.03

PEAK DISCHARGE (BASE, 340 CFS).--Feb. 5 (0015) 802 cfs (9.91 ft).

ILLINOIS RIVER BASIN

05523500 Slough Creek near Collegeville, Ind.

LOCATION.--Lat 40°53'30", long 87°09'17", in SE¼NE¼ sec.12, T.28 N., R.7 W., Jasper County, on right bank at downstream side of bridge on State Highway 53, 1.5 miles south of Collegeville, 2.5 miles upstream from mouth, and 2.8 miles downstream from Bice ditch.

DRAINAGE AREA.--83.7 sq mi.

PERIOD OF RECORD.--July 1948 to December 1951, October 1952 to current year. Prior to October 1965, published as Big Slough Creek near Collegeville.

GAGE.--Water-stage recorder. Datum of gage is 634.75 ft above mean sea level. Prior to Aug. 5, 1955, nonrecording gage and Aug. 5, 1955, to Oct. 8, 1958, water-stage recorder at same site at datum 3.00 ft higher.

AVERAGE DISCHARGE.--22 years, 66.6 cfs (10.81 inches per year).

EXTREMES.--Current year: Maximum daily discharge, 700 cfs Feb. 5; maximum gage height, 15.01 ft Feb. 5 (backwater from Iroquois River); minimum daily discharge, 4.7 cfs Aug. 18, 19, 22.
Period of record: Maximum discharge, 2,390 cfs Dec. 22, 1967 (gage height, 16.88 ft); minimum daily, 0.7 cfs Dec. 20-26, 1963.

REMARKS.--Records good except those for part of December, January, and part of February, which are poor.

REVISIONS (WATER YEARS).--WSP 1558: 1955(M), 1956(M), 1957. WSP 2115: Drainage area.

DISCHARGE, IN CUPIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	60	134	10	5.6	91	178	16	14	6.8	11	8.4
2	30	74	52	10	5.4	71	284	17	45	6.8	10	7.7
3	24	251	78	12	5.4	58	176	16	30	6.5	9.6	7.4
4	16	158	68	60	90	50	105	16	20	7.7	5.6	10
5	18	140	55	42	700	44	74	16	17	88	5.6	10
6	16	98	45	24	300	60	64	31	25	58	8.8	12
7	14	74	35	15	170	68	53	36	567	34	8.0	14
8	30	62	33	10	52	40	46	68	234	21	7.4	57
9	117	64	34	8.0	56	36	42	56	52	88	7.1	38
10	104	76	35	7.8	24	35	35	40	52	74	7.1	29
11	57	68	43	8.0	28	67	34	54	105	260	5.2	25
12	45	66	46	5.6	22	92	32	172	452	200	7.1	22
13	48	58	44	5.2	18	250	32	93	431	100	6.2	20
14	191	52	35	10	14	279	32	57	260	54	5.5	19
15	165	49	34	12	12	505	31	42	59	35	5.6	16
16	104	44	36	11	11	470	25	36	54	25	5.2	15
17	74	42	36	10	18	368	28	29	49	20	5.2	15
18	63	41	37	5.4	300	296	25	26	45	17	4.7	14
19	55	41	40	8.6	500	341	23	23	53	18	4.7	17
20	56	71	31	8.0	360	335	22	20	65	12	5.2	26
21	60	75	31	7.2	280	252	25	18	35	12	6.2	25
22	55	70	32	6.8	347	191	22	16	29	11	4.7	22
23	50	50	35	6.4	381	120	21	16	23	10	5.6	19
24	47	40	25	6.8	158	73	20	17	18	11	5.2	17
25	43	35	25	7.4	114	61	15	18	14	13	39	24
26	40	35	21	7.2	165	61	17	16	14	16	26	70
27	38	35	18	6.8	273	65	15	13	14	14	15	69
28	47	60	16	6.4	148	65	20	13	12	15	12	48
29	135	128	14	6.2	-----	55	18	11	7.7	19	11	37
30	107	175	12	6.0	-----	47	16	11	6.8	16	5.6	31
31	76	-----	11	5.8	-----	45	-----	10	-----	13	6.4	-----
TOTAL	1,954	2,344	1,239	366.6	4,641.4	4,591	1,548	1,023	2,886.5	1,385.8	293.6	993.5
MEAN	63.0	76.1	40.0	11.8	166	148	51.6	33.0	96.2	44.7	9.47	33.1
MAX	151	251	134	60	700	505	284	172	567	360	35	144
MIN	14	35	11	5.8	5.4	35	16	10	6.8	6.5	4.7	7.4
CFSM	.75	.93	.48	.14	1.58	1.77	.62	.39	1.15	.53	.11	.40
IN.	.97	1.04	.55	.16	2.06	2.04	.65	.45	1.28	.62	.13	.44
CEL YR 1970	TOTAL 32,634.2	MEAN 39.4	MAX 2,020	MIN 5.6	CFSM 1.07	IN 14.50						
WTR YR 1971	TOTAL 23,266.4	MEAN 63.7	MAX 700	MIN 4.7	CFSM .76	IN 10.34						

05524000 Carpenter Creek at Egypt, Ind.

LOCATION.--Lat 40°51'58", long 87°12'20", in SE¼SW¼ sec.15, T.28 N., R.7 W., Jasper County, on left bank at downstream side of bridge on State Highway 16, 0.5 mile north of Egypt, 2.8 miles upstream from mouth, and 4 miles southwest of Collegeville.

DRAINAGE AREA.--44.8 sq mi.

PERIOD OF RECORD.--July 1948 to December 1951, October 1952 to current year.

GAGE.--Water-stage recorder. Datum of gage is 641.79 ft above mean sea level. Prior to Sept. 6, 1955, nonrecording gage, at same site and datum.

AVERAGE DISCHARGE.--22 years, 34.9 cfs (10.58 inches per year).

EXTREMES.--Current year: Maximum discharge, 467 cfs June 13 (gage height, 8.54 ft); minimum daily, 0.56 cfs Sept. 1.

Period of record: Maximum discharge, 3,720 cfs June 10, 1958 (gage height, 11.66 ft); no flow at times most years.

REMARKS.--Records good except those for period of no gage-height record, and parts of December, January, February, and March, which are poor.

REVISIONS (WATER YEARS).--WSP 1175: 1949(M). WSP 1558: 1955-57. WSP 1728: 1951(M). WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	38	38	68	4.3	1.2	48	67	6.0	7.1	3.5	1.6	.56
2	33	45	45	4.0	1.1	39	84	6.4	16	3.3	1.6	1.2
3	26	124	35	4.0	1.2	29	53	6.3	11	3.0	1.7	5.0
4	20	88	35	26	20	23	38	5.8	15	2.6	1.7	7.0
5	18	62	26	14	281	17	30	6.1	20	33	2.6	6.3
6	17	46	23	11	246	23	27	31	20	15	1.6	51
7	15	38	19	8.0	170	32	23	24	45	8.2	1.3	26
8	41	30	18	5.0	103	19	20	90	18	5.0	1.2	9.7
9	155	32	18	3.1	73	17	18	62	11	33	1.1	5.3
10	121	35	15	2.9	50	16	15	39	8.4	25	1.1	3.0
11	69	30	19	2.9	32	25	14	41	15	140	3.5	2.1
12	54	31	19	3.0	21	35	14	60	137	90	1.7	1.6
13	51	27	17	3.4	13	120	15	48	332	45	.55	1.4
14	139	24	14	3.7	9.0	150	13	35	144	25	.78	1.1
15	114	22	13	4.0	6.0	262	12	27	62	13	.78	.78
16	69	19	16	4.1	4.0	209	12	24	37	9.0	.78	.70
17	52	19	16	4.0	20	123	12	20	26	6.6	.70	1.2
18	42	18	14	3.4	113	99	10	17	21	5.4	.63	.95
19	36	17	16	3.0	248	136	9.0	15	22	4.6	.70	1.1
20	35	38	12	2.8	180	134	9.1	13	21	4.0	.55	5.0
21	35	39	12	2.5	95	89	10	12	43	3.5	.87	5.8
22	32	36	14	2.2	146	65	9.3	11	25	2.5	.78	3.3
23	29	28	15	2.1	153	46	8.1	10	16	2.3	.78	2.3
24	27	24	13	2.4	53	35	8.2	11	12	3.8	1.1	1.5
25	24	21	11	2.5	53	29	7.4	11	9.0	3.0	31	2.6
26	22	20	9.0	2.4	50	27	6.8	8.7	7.6	2.7	8.5	18
27	21	18	7.8	2.1	143	27	7.0	7.3	7.2	2.2	3.3	14
28	27	24	6.4	1.8	70	28	8.0	7.0	5.8	2.8	1.8	9.0
29	89	58	5.6	1.6	-----	24	7.3	6.8	4.5	4.5	1.3	6.8
30	65	50	5.0	1.4	-----	20	6.1	6.8	4.0	3.3	.87	5.3
31	49	-----	4.5	1.3	-----	19	-----	6.6	-----	2.3	.70	-----
TOTAL	1,565	1,141	565.3	138.9	2,395.5	1,965	573.3	674.8	1,122.6	515.1	78.17	159.59
MEAN	50.6	38.0	18.2	4.48	85.6	63.4	19.1	21.8	37.4	16.6	2.52	6.65
MAX	155	124	68	26	281	262	84	50	332	140	31	51
MIN	15	17	4.5	1.3	1.1	16	6.1	5.8	4.0	2.2	.63	.56
CFSM	1.13	.85	.41	.10	1.61	1.42	.43	.49	.83	.37	.06	.15
IN.	1.30	.95	.47	.12	1.95	1.63	.48	.56	.93	.43	.06	.17

CAL YR 1970 TOTAL 16,791.00 MEAN 46.0 MAX 1,140 MIN .36 CFSM 1.03 IN 13.94
WTR YR 1971 TOTAL 10,938.26 MEAN 30.0 MAX 332 MIN .56 CFSM .67 IN 9.08

PEAK DISCHARGE (BASE, 600 CFS).--No peak above base.

NOTE.--No gage-height record June 21 to July 29.

05524500 Iroquois River near Foresman, Ind.

LOCATION.--Lat 40°52'14", long 87°18'24", in NE½SE¼ sec.15, T.28 N., R.8 W., Newton County, on right bank at downstream side of bridge on State Highway 55, 0.2 mile north of intersection of Highways 16 and 55, 0.5 mile downstream from Mosquito Creek, 0.6 mile west of Foresman, and 3 miles east of Brook.

DRAINAGE AREA.--449 sq mi.

PERIOD OF RECORD.--December 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 624.00 ft above mean sea level. Prior to Sept. 7, 1955, nonrecording gage 2.5 miles upstream at datum 3.54 ft higher.

AVERAGE DISCHARGE.--22 years, 343 cfs (10.37 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,090 cfs Feb. 6 (gage height, 16.2 ft); minimum daily, 37 cfs Feb. 3.
Period of record: Maximum discharge, 5,930 cfs June 14, 1958 (gage height, 24.42 ft); minimum daily, 6.3 cfs Sept. 10, 1964.

REMARKS.--Records good. Records of suspended-sediment loads for current year are published in Part 2 of this report.

REVISIONS (WATER YEARS).--WSP 1338: 1953. WSP 1438: 1955. WSP 1508: 1956. WSP 2115: Drainage area.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

CAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	403	393	511	94	42	682	401	120	77	51	72	48
2	285	353	460	94	35	559	718	115	130	49	67	47
3	204	511	419	100	37	425	758	117	165	46	58	44
4	153	663	375	160	173	303	657	109	136	45	56	46
5	127	659	322	130	1,700	283	584	107	266	155	52	56
6	117	577	263	110	1,970	296	476	145	192	267	45	165
7	107	490	228	54	1,900	348	396	224	421	181	45	317
8	136	403	205	84	1,700	298	330	252	619	139	44	244
9	366	355	200	81	1,400	274	292	353	511	509	45	148
10	461	345	200	86	550	281	260	290	294	783	46	109
11	463	345	214	87	600	302	235	253	222	1,030	57	90
12	377	342	242	85	350	319	232	508	620	1,160	81	78
13	335	325	250	85	170	554	227	528	758	1,040	63	71
14	419	295	240	89	130	753	222	409	781	751	50	65
15	565	271	216	87	110	566	213	288	630	433	47	69
16	604	250	208	75	107	1,160	202	237	372	236	46	56
17	498	235	200	70	135	1,160	203	200	218	150	43	58
18	397	228	200	66	435	1,080	191	171	149	120	42	58
19	326	222	200	62	1,110	1,030	176	151	166	110	40	60
20	285	263	210	58	1,290	1,050	164	129	282	102	42	85
21	281	336	155	54	1,260	1,010	164	116	262	87	46	121
22	274	345	155	58	1,120	897	165	107	206	77	45	118
23	257	293	158	60	1,180	774	160	102	158	68	43	101
24	240	238	161	64	1,030	663	153	107	119	71	42	88
25	225	238	155	66	754	541	141	110	100	73	164	83
26	210	223	145	68	708	445	132	102	89	82	212	164
27	199	212	120	58	774	397	126	93	80	79	133	346
28	215	234	120	47	776	388	137	86	71	73	88	379
29	405	304	110	50	-----	364	137	79	64	121	68	351
30	492	460	105	50	-----	318	176	75	55	117	57	266
31	465	-----	100	46	-----	295	-----	74	-----	86	50	-----
TOTAL	9,891	10,416	6,997	2,418	21,954	18,245	8,426	5,757	8,213	8,291	1,993	3,922
MEAN	319	347	226	78.0	786	589	281	187	274	267	64.2	131
MAX	604	663	511	160	1,970	1,160	758	528	781	1,160	212	379
MIN	107	212	100	46	37	274	126	74	55	45	40	44
CFSM	.71	.77	.50	.17	1.75	1.31	.63	.42	.61	.59	.14	.29
IN.	.82	.86	.58	.20	1.82	1.51	.70	.48	.68	.69	.17	.32

CAL YR 1970 TOTAL 150,500 MEAN 412 MAX 4,210 MIN 26 CFSM .92 IN 12.47
WTR YR 1971 TOTAL 106,603 MEAN 292 MAX 1,570 MIN 37 CFSM .65 IN 8.83

05525000 Iroquois River at Iroquois, Ill.

LOCATION.--Lat 40°49'25", long 87°34'55", in SE¼ sec.15, T.27 N., R.11 W., Iroquois County, on left bank at upstream side of bridge on U.S. Highway 52 in Iroquois, 500 ft upstream from Cleveland, Cincinnati, Chicago & St. Louis Railway bridge, and 4.5 miles downstream from Indiana-Illinois State line.

DRAINAGE AREA.--686 sq mi (revised).

PERIOD OF RECORD.--October 1944 to current year.

GAGE.--Water-stage recorder. Datum of gage is 614.34 ft above mean sea level. Prior to Aug. 5, 1945, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--27 years, 505 cfs (10.00 inches per year).

EXTREMES.--Current year: Maximum discharge, 2,310 cfs Feb. 5 (gage height, 15.77 ft); minimum, 40 cfs Aug. 21.
Period of record: Maximum discharge, 10,400 cfs June 13, 1958 (gage height, 26.31 ft); minimum, 5.2 cfs Sept. 13, 1964.

REMARKS.--Records good except those for winter periods, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,040	727	689	226	60	1,050	501	165	119	69	118	61
2	781	658	719	223	60	894	842	158	123	62	93	55
3	605	687	689	222	80	700	1,000	153	173	55	85	50
4	471	828	634	285	276	542	994	151	205	51	73	50
5	392	917	565	310	1,930	441	884	148	208	99	66	53
6	345	902	486	260	2,000	417	730	187	290	247	61	237
7	314	823	414	200	1,900	439	598	242	263	299	55	491
8	308	724	376	160	1,700	451	514	375	481	224	49	507
9	525	647	365	160	1,400	404	453	483	604	613	45	382
10	750	596	349	150	1,100	390	393	480	514	891	47	258
11	798	567	347	140	800	400	348	430	353	1,230	61	187
12	757	560	355	140	700	427	328	494	416	1,440	66	143
13	690	544	369	130	500	627	318	648	732	1,350	89	118
14	882	509	370	130	400	974	306	630	858	1,170	79	104
15	990	471	355	120	330	1,400	292	519	846	909	62	92
16	979	436	343	110	302	1,630	277	420	658	579	52	94
17	899	408	339	100	295	1,640	270	349	431	360	50	80
18	776	388	333	100	633	1,600	259	306	280	246	46	77
19	664	377	339	90	1,450	1,540	242	270	207	192	42	82
20	580	404	335	80	1,660	1,530	228	240	386	166	41	118
21	535	461	328	80	1,690	1,480	220	212	490	146	41	199
22	515	520	322	85	1,800	1,370	217	195	399	121	45	219
23	494	503	319	90	2,090	1,210	213	181	306	106	47	204
24	463	441	300	95	1,790	1,030	206	178	223	96	47	170
25	430	373	298	95	1,500	846	196	182	171	101	212	149
26	405	389	290	90	1,240	680	182	174	150	190	364	242
27	383	367	280	80	1,210	582	179	158	120	135	324	454
28	392	358	260	75	1,150	544	179	146	105	132	213	568
29	612	392	240	75	-----	518	178	135	90	166	133	587
30	757	555	230	70	-----	479	174	128	80	182	93	537
31	779	-----	232	65	-----	438	-----	121	-----	162	74	-----
TOTAL	19,311	16,532	11,870	4,236	30,046	26,673	11,721	8,658	10,281	1,789	2,873	6,548
MFAN	623	551	383	137	1,073	860	391	279	343	380	92.7	218
MAX	1,040	917	719	310	2,090	1,640	1,000	648	858	1,440	364	587
MIN	308	358	230	65	60	390	174	121	80	51	41	50
CFSM	.91	.90	.56	.20	1.56	1.25	.57	.41	.50	.55	.14	.32
IN.	1.05	.90	.64	.23	1.63	1.45	.64	.47	.56	.64	.16	.36

CAL YR 1970 TOTAL 232,634 MEAN 637 MAX 5,360 MIN 35 CFMS .93 IN 12.62
WTR YR 1971 TOTAL 160,538 MEAN 440 MAX 2,090 MIN 41 CFMS .64 IN 8.71

ILLINOIS RIVER BASIN

05525500 Sugar Creek at Milford, Ill.

LOCATION.--Lat 40°37'50", long 87°43'25", in $\frac{N}{2}$ sec. 16, T.25 N., R.12 W., Iroquois County, on right bank at downstream side of highway bridge, 200 ft downstream from Mud Creek and 1 mile west of Milford.

DRAINAGE AREA.--430 sq mi.

PERIOD OF RECORD.--July 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 622.00 ft above mean sea level. Prior to July 23, 1970, nonrecording gage at same site and datum.

AVERAGE DISCHARGE.--23 years, 323 cfs (10.20 inches per year).

EXTREMES.--Current year: Maximum discharge, 4,500 cfs Feb. 5 (gage height, 16.94 ft); minimum, 5.0 cfs Sept. 3.

Period of record: Maximum discharge, 22,900 cfs Feb. 21, 1951 (gage height, 20.90 ft), from rating curve extended above 8,200 cfs; maximum gage height, 23.74 ft Feb. 10, 1959 (ice jam); minimum discharge, 2.6 cfs Oct. 9, 1966.

REMARKS.--Records good except those for winter periods, which are poor.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	380	377	311	89	30	490	290	94	84	25	53	6.3
2	320	328	266	90	25	400	484	94	302	22	43	6.2
3	271	352	238	89	25	318	444	93	165	20	37	5.4
4	226	333	223	170	241	232	354	89	119	24	36	7.7
5	232	304	192	209	3,570	234	294	93	96	214	35	18
6	184	277	165	150	3,200	234	268	130	84	442	30	121
7	167	255	160	100	1,900	328	248	163	76	223	26	122
8	167	227	158	85	1,000	244	226	322	69	135	24	77
9	299	221	158	80	520	234	208	364	62	465	22	52
10	315	229	144	80	270	224	184	314	58	559	22	35
11	263	217	148	74	150	234	172	316	57	1,230	25	26
12	236	213	146	70	110	248	172	718	65	1,640	25	21
13	225	204	135	68	90	663	175	798	141	671	21	18
14	786	187	124	64	80	1,090	163	498	121	347	19	16
15	1,330	174	116	58	75	1,720	152	366	82	236	17	13
16	1,020	164	123	52	80	2,290	149	310	66	178	16	13
17	639	158	135	50	130	1,720	148	242	55	150	14	13
18	460	154	134	47	883	1,110	140	238	48	129	12	12
19	365	150	144	45	2,740	905	130	210	43	114	11	15
20	328	205	128	45	1,790	858	127	185	54	154	14	34
21	346	219	124	47	890	790	130	165	87	114	15	51
22	354	197	129	54	1,220	680	127	151	71	85	11	56
23	327	144	131	55	2,320	486	119	144	51	71	9.8	42
24	299	151	95	56	1,210	402	120	149	42	92	9.4	31
25	275	152	110	56	680	346	112	148	43	175	42	34
26	252	149	105	50	730	312	107	128	43	112	27	111
27	232	144	100	42	1,150	292	104	110	40	76	15	171
28	253	150	90	38	809	282	111	101	33	66	12	128
29	692	210	80	38	-----	256	107	95	29	80	10	91
30	755	326	80	40	-----	276	98	92	26	92	8.5	63
31	502	-----	85	35	-----	212	-----	86	-----	70	6.7	-----
TOTAL	12,470	6,571	4,477	2,226	25,907	19,060	5,663	7,006	2,312	8,011	668.4	1,416.6
MEAN	402	219	144	71.8	925	583	189	226	77.1	258	21.6	47.2
MAX	1,330	377	311	209	3,570	2,290	484	798	302	1,640	53	171
MIN	167	144	90	35	25	212	98	86	26	20	6.7	5.4
CFSM	.93	.51	.33	.17	2.15	1.36	.44	.53	.18	.60	.05	.11
IN.	1.08	.57	.39	.19	2.24	1.56	.49	.61	.20	.69	.06	.12

CAL YR 1970 TOTAL 153,800.0 MEAN 421 MAX 5,500 MIN 16 CFSM .98 IN 13.31
 WTR YR 1971 TOTAL 94,788.0 MEAN 260 MAX 3,570 MIN 5.4 CFSM .60 IN 8.20

PEAK DISCHARGE (BASE, 2,500 CFS)

DATE	TIME	G. H.	DISCHARGE	DATE	TIME	G. H.	DISCHARGE
02-05	1600	16.94	4,500	02-23	0615	13.90	2,650
02-19	0600	15.06	3,240				

PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES IN INDIANA



As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records collected at partial-record stations and miscellaneous sites are presented in two tables. The first is a table of discharge measurements at low-flow partial-record stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in the second table.

Low-flow partial-record stations

Measurements of streamflow in the area covered by this report made at low-flow partial-record stations are given in the following table. Most of these measurements were made during periods of base flow when streamflow is primarily from ground-water storage. These measurements, when correlated with the simultaneous discharge of a nearby stream where continuous records are available, will give a picture of the low-flow potentiality of stream. The column headed 'Period of record' shows the water years in which measurements were made at the same, or practically the same, site.

Discharge measurements made at low-flow partial-record stations during water year 1971

Discharge measurements made at low-flow partial-record stations during water year 1971						
Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
OHIO RIVER BASIN						
Great Miami River						
03274710	Nettle Creek near Hagerstown, Ind.	Lat 39°55'30", long 85°10'39", in W½ sec.15, T.17 N., R.12 E., Wayne County, at bridge on Leavell Road, 1.3 miles northwest of Hagerstown.	17.7	1969-71	10-01-70 07-29-71	4.22 6.47
03274900	Greens Fork at Greens Fork, Ind.	Lat 39°53'35", long 85°02'39", in NE¼SW¼ sec.26, T.17 N., R.13 E., Wayne County, at bridge on State Highway 38, at west edge of Greens Fork.	66.7	1969-71	08-31-71	4.35
Tanners Creek						
03276630	Tanners Creek near Guilford, Ind.	Lat 39°09'15", long 84°53'50", in E½ sec.29, T.6 N., R.1 W., first principal meridian, Ohio, Dearborn County, at bridge on Pribble Road, 2.3 miles southeast of Guilford.	84.1	1969-71	07-21-71	.14
Blue River						
03302900	Spring Creek near White Cloud, Ind.	Lat 38°14'20", long 86°13'45", in SE¼ sec.19, T.3 S., R.3 E., Harrison County, at county highway bridge, 0.8 mile north of White Cloud, and at mouth of Harrison Spring.		1951-52 1954-71	11-05-70 12-11-70 04-01-71 05-05-71 06-10-71 08-20-71	85.5 79.0 125 105 52.9 31.4
Wabash River						
03322860	Loblolly Creek at Geneva, Ind.	Lat 40°34'59", long 84°57'38", in NW¼NE¼ sec.32, T.25 N., R.14 E., Adams County, at bridge on U.S. Highway 27, at south edge of Geneva.	67.2	1969-71	04-27-71	5.50
03322880	Limerlost Creek at Geneva, Ind.	Lat 40°34'59", long 84°57'38", in NW¼NE¼ sec.32, T.25 N., R.14 E., Adams County, 50 ft upstream of mouth, above bridge on U.S. Highway 27, at south edge of Geneva.	41.7	1969-71	04-27-71	2.16
03323700	Abolte Creek near Abolte, Ind.	Lat 40°59'23", long 85°21'00", on line between secs. 1 and 12, T.29 N., R.10 E., Huntington County, at bridge on County Road 1100 North, 800 ft above mouth, 2.25 miles northeast of Roanoke.	52.7	1969-71	04-27-71	7.70
03324250	Salamonie River at Montpelier, Ind.	Lat 40°33'33", long 85°16'43", in NE¼NE¼SE¼ sec.4, T.24 N., R.11 E., Blackford County, at bridge on State Highway 303, at north edge of Montpelier.	253	1969-71	04-28-71	27.5
03324700	Treaty Creek at Wabash, Ind.	Lat 40°47'31", long 85°48'36", in SE¼NE¼NE¼ sec.14, T.27 N., R.6 E., Wabash County, at bridge on Cassatt Road, 0.5 mile southeast of Wabash.	30.1	1969-71	05-04-71	3.19
03327590	Eel River near Columbia City, Ind.	Lat 41°08'33", long 85°27'25", in NW¼SE¼NE¼ sec.13, T.31 N., R.9 E., Whitley County, at bridge on Old U.S. Highway 30, 1.5 miles east of Columbia City.	77.4	1969-71	04-27-71	25.0
03327900	Sugar Creek near South Whitley, Ind.	Lat 41°04'31", long 85°36'54", on line between secs.3 and 10, T.30 N., R.8 E., Whitley County, at bridge on State Highway 14, 0.3 mile east of junction with State Highway 5, at southeast edge of South Whitley.	30.7	1969-71	05-04-71	3.77

Discharge measurements made at low-flow partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
OHIO RIVER BASIN--Continued						
Wabash River--Continued						
03328450	Eel River at Mexico, Ind.	Lat 40°49'20", long 86°06'47", on line between sec.31, T.28 N., R.4 E., and sec.6, T.27 N., R.4 E., Miami County, at bridge on county road east of Mexico, Ind.	700	1968,1971	05-03-71	270
03329100	Crooked Creek near Royal Center, Ind.	Lat 40°48'23", long 86°29'31", in NW¼ sec.11, T.27 N., R.1 W., Cass County, at culverts on 625 West Road, 4 miles south of Royal Center.	35.9	1968-71	04-26-71	11.4
03329150	Crooked Creek near Logansport, Ind.	Lat 40°45'51", long 86°29'54", In NW¼ sec.26, T.27 N., R.1 W., Cass County, at bridge on U.S. Highway 24, 6.5 miles west of Logansport.	54.2	1968-71	04-26-71	27.2
03329510	Deer Creek near Lincoln, Ind.	Lat 40°36'11", long 86°12'10", in NW¼ sec. 21, T.25 N., R.3 E., Cass County, at bridge on U.S. Highway 35, one mile south of Lincoln.	56.5	1968-71	04-22-71	10.9
03329530	South Fork Deer Creek at Galveston, Ind.	Lat 40°34'54", long 86°11'23", In SE¼ sec.28, T.25 N., R.3 E., Cass County, at bridge on U.S. Highway 35, at Galveston.	31.6	1968-71	04-22-71	6.88
03331350	Yellow Creek near Mentone, Ind.	Lat 41°10'18", long 86°07'16", In NW¼NE¼ sec.6, T.31 N., R.4 E., Fulton County, at bridge on State Highway 25, 4.5 miles west of Mentone.	43.7	1969-71	04-27-71	11.7
03331375	Chippewanuck Creek near Rochester, Ind.	Lat 41°06'43", long 86°11'09", In NW¼NW¼ sec.27, T.31 N., R.3 E., Fulton County, at bridge on State Highway 25, 3.5 miles north of Rochester.	43.7	1969-71	04-27-71	18.6
03332250	Indian Creek near Thornhope, Ind.	Lat 40°55'12", long 86°31'42", In NE¼SE¼NE¼ sec. 33, T.29 N., R.1 W., Pulaski County, at bridge on U.S. Highway 35, 0.3 mile south of Thornhope.	56.6	1968, 1970-71	04-27-71	21.8
03332350	Big Monon Creek near Medaryville, Ind.	Lat 41°03'21", long 86°50'02", in NW¼NW¼ sec.13, T.30 N., R.4 W., Pulaski County, at bridge on State Highway 14, 3 miles east of junction of U.S. Highway 421 and State Highway 14, 3.5 miles southeast of Medaryville.	69.6	1968-69 1971	04-27-71	37.8
03332800	Big Creek near Monticello, Ind.	Lat 40°40'16", long 86°47'14", In SW¼NW¼SW¼ sec.29, T.26 N., R.3 W., White County, at bridge on county road 4.8 miles east of State Road 43 in Chalmers, Ind.	55.3	1968-69 1971	04-28-71	15.3
03334700	Middle Fork Wildcat Creek near Rossville, Ind.	Lat 40°25'47", long 86°36'15", In NE¼NE¼ sec.23, T.23 N., R.2 W., Clinton County, at bridge on U.S. Highway 421, 1 mile northwest of Rossville.	54.0	1969-71	04-22-71	12.6
03334750	Campbells Run near Rossville, Ind.	Lat 40°24'46", long 86°35'41", In SE¼NW¼ sec.25, T.23 N., R.2 W., Clinton County, at bridge on U.S. Highway 421, 0.3 mile south of Rossville.	18.3	1969-71	04-22-71	2.78
03335800	Big Shawnee Creek near Attica, Ind.	Lat 40°14'30", long 87°14'12", In NW¼ sec.29, T.21 N., R.7 W., Fountain County, at county road bridge, 0.5 mile northeast of Rob Roy, and 3.7 miles southeast of Attica.	42.0	1968-71	04-21-71	15.2
03339111	East Fork Coal Creek near Veedersburg, Ind.	Lat 40°05'48", long 87°14'34", In NW¼NW¼ sec.17, T.19 N., R.7 W., Fountain County, at bridge on New U.S. Highway 41, 1.5 miles southeast of Veedersburg.	60.1	1969-71	04-21-71	15.8
03339300	Prairie Creek at Thorntown, Ind.	Lat 40°07'46", long 86°36'01", In SE¼SE¼ sec.35, T.20 N., R.2 W., Boone County, at bridge on State Highway 47, at east edge of Thorntown.	46.9	1969-71	04-21-71	11.0
03339460	Walnut Fork Sugar Creek near Crawfordsville, Ind.	Lat 40°02'49", long 86°51'33", In SE¼NW¼ sec.34, T.19 N., R.4 W., Montgomery County, at bridge on State Highway 32, 2.5 miles east of Crawfordsville.	44.8	1969-71	04-21-71	8.60
03341580	Honey Creek near Terre Haute, Ind.	Lat 39°23'40", long 87°23'54", In SW¼ sec.15, T.11 N., R.9 W., Vigo County, at bridge on U.S. Highway 41, at north edge of Allendale, and 3 miles south of the city limits of Terre Haute.	a64	1965,1967 1969-71	04-21-71	11.8
03341930	Turman Creek near Farmersburg, Ind.	Lat 39°14'40", long 87°24'28", at corner of secs.3, 4, 9, and 10, T.9 N., R.9 W., Sullivan County, at bridge on County Road 1100 North, 1.5 miles southwest of Farmersburg.	a13	1964,1967 1969-71	04-21-71	.96
03348300	Pipe Creek near Alexandria, Ind.	Lat 40°16'40", long 85°38'34", on line between secs.8 and 17, T.21 N., R.8 E., Madison County, at bridge on State Highway 28, 2 miles north-east of Alexandria.	44.7	1960-65 1967-71	04-29-71	9.07

Discharge measurements made at low-flow partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
OHIO RIVER BASIN--Continued						
Wabash River--Continued						
03348400	Duck Creek near Strawtown, Ind.	Lat 40°08'17", long 85°56'22", on line between secs.34 and 35, T.20 N., R.5 E., Hamilton County, at bridge on State Highway 213, 0.6 mile north of State Highway 37, and 1.1 miles north of Strawtown.	98.9	1946, 1965 1968-71	04-28-71	20.8
03349200	Cicero Creek at Tipton, Ind.	Lat 40°16'16", long 86°03'02", on line between secs.14 and 15, T.21 N., R.4 E., Tipton County, at county road bridge, 0.5 mile southwest of Tipton.	80.2	1968-71	08-08-71	3.53
03353665	Stotts Creek near Martinsville, Ind.	Lat 39°30'02", long 86°19'57", in NE¼ sec.8, T.12 N., R.2 E., Morgan County, at bridge on State Highway 37, 250 ft upstream of mouth, 7.2 miles northeast of Martinsville.	60.1	1954, 1968-71	04-30-71	9.32
03353900	East Fork White Lick Creek at Mooresville, Ind.	Lat 39°38'47", long 86°20'47", in SE¼ sec.18, T.14 N., R.2 E., Hendricks County, at bridge on Mooresville Road, 0.8 mile west of Friendswood, and 3 miles northeast of Mooresville.	42.8	1965, 1968-71	04-30-71	8.06
03360225	Plummer Creek near Bloomfield, Ind.	Lat 38°59'33", long 86°55'44", in NE¼ sec.2, T.6 N., R.5 W., Greene County, at bridge on U.S. Highway 231, 2.3 miles south of Bloomfield.	66.7	1954, 1968-71	04-22-71	14.9
03360920	Big Blue River near New Castle, Ind.	Lat 40°00'15", long 85°20'48", at corner of secs.13, 14, 23, and 24, T.18 N., R.10 E., Henry County, at bridge on U.S. Highway 36, 5.2 miles east of Sulphur Springs and 5.2 miles north of New Castle.	15.8	1965, 1969-71	09-02-71	3.17
03361800	Sugar Creek near Pleasant View, Ind.	Lat 39°38'49", long 85°55'09", in E½ sec.24, T.14 N., R.5 E., Shelby County, at bridge on Interstate Highway 74, 1.75 miles southeast of Pleasant View.	130	1954, 1960-71	04-27-71	32.9
03361800	Buck Creek near New Bethel, Ind.	Lat 39°43'34", long 85°58'21", on line between secs.21 and 28, T.15 N., R.5 E., Marion County, at bridge on East Troy Avenue, 2.4 miles northeast of New Bethel.	51.0	1960-65 1967-71	04-27-71	5.86
03363400	Flatrock River at Rushville, Ind.	Lat 39°36'15", long 85°26'39", in NW¼SW¼ sec.5, T.13 N., R.10 E., Rush County, at bridge on U.S. Highway 52, 0.3 mile south of courthouse in Rushville.	168	1969-71	08-31-71	10.0
03364400	Clifty Creek at Sandusky, Ind.	Lat 39°25'27", long 85°28'48", in NE¼NE¼ sec.11, T.11 N., R.9 E., Decatur County, at bridge on State Highway 3, in Sandusky.	46.4	1969-71	04-27-71	8.42
STREAMS TRIBUTARY TO LAKE MICHIGAN						
St. Joseph River						
04100490	Turkey Creek at New Paris, Ind.	Lat 41°30'00", long 85°50'40", in SW¼ sec.9, T.35 N., R.6 E., Elkhart County, at bridge on County Road 46, 0.4 mile west of New Paris.	160	1960-65 1967, 1969 1971	04-26-71 07-20-71	66.3 30.5
STREAMS TRIBUTARY TO LAKE ERIE						
Maumee River						
04177800	Fish Creek near Artie, Ind.	Lat 41°29'15", long 84°50'13", in SE¼ sec.18, T.35 N., R.15 E., Dekalb County, at bridge on County Road 12, 1.7 miles northwest of Artie.	95.6	1968-71	07-08-71	5.08
04177900	Big Run at Butler, Ind.	Lat 41°26'09", long 84°52'08", in NE¼ sec.1, T.34 N., R.14 E., Dekalb County, at bridge on State Highway 1, 0.6 mile north of Butler.	17.0	1968-71	07-08-71	1.64
04179310	Cedar Creek at Waterloo, Ind.	Lat 41°26'14", long 85°01'03", in NW¼ sec.3, T.34 N., R.13 E., Dekalb County, at bridge on U.S. Highway 27, 0.3 mile northeast of Waterloo.	48.8	1968-71	07-07-71	3.93
04181100	Blue Creek near Pleasant Mills, Ind.	Lat 40°44'49", long 84°49'20", in NE¼NE¼ sec.4, T.26 N., R.15 E., Adams County, at bridge on State Highway 124, 1.5 miles west of Willshire, Ohio, and 2.2 miles southeast of Pleasant Mills.	78.5	1969-71	07-06-71 08-30-71	1.97 1.47

Discharge measurements made at low-flow partial-record stations during water year 1971--Continued

Station No.	Station name	Location	Drainage area (sq mi)	Period of record	Measurements	
					Date	Discharge (cfs)
STREAMS TRIBUTARY TO LAKE ERIE--Continued						
Maumee River--Continued						
04181600	Holthouse ditch at Decatur, Ind.	Lat 40°50'48", long 84°56'44", in NE¼ sec.33, T.28 N., R.14 E., Adams County, at bridge on Winchester Road, 0.4 mile upstream of mouth, and 1 mile northwest of Decatur.	34.0	1968-71	07-07-71 08-30-71	.09 .06
04181900	Houk ditch near Hassen Cassel, Ind.	Lat 40°59'27", long 85°05'32", in SW¼ sec.5, T.29 N., R.13 E., Allen County, at bridge on U.S. Highways 27 and 33, 0.4 mile upstream of mouth, and 1.2 miles northwest of Hassen Cassel.	16.3	1968-71	07-07-71 08-30-71	.13 0
04191340	Flatrock Creek near Townley, Ind.	Lat 41°00'51", long 84°51'06", in SE¼ sec.32, T.30 N., R.15 E., Allen County, at bridge on U.S. Highway 30, 1.2 miles southeast of Townley.	47.1	1968-71	07-07-71	.32
04191360	Hoffman Creek at Townley, Ind.	Lat 41°01'16", long 84°52'16", in NE¼ sec.31, T.30 N., R.15 E., Allen County, at bridge on U.S. Highway 30, at Townley.	41.7	1968-71	07-07-71	.03
UPPER MISSISSIPPI RIVER BASIN						
Illinois River						
05515100	Little Kankakee River near Mill Creek, Ind.	Lat 41°34'15", long 86°34'27", in center of sec.18, T.36 N., R.1 W., LaPorte County, at bridge on State Highway 4, 2.5 miles west of Mill Creek.	b338	1961-65 1967-69 1971	04-28-71	38.9
05516300	Dausman ditch near Bremen, Ind.	Lat 41°22'58", long 86°07'02", on line between sec.19, T.34 N., R.4 E., and sec.24, T.34 N., R.3 E., Marshall County, at bridge on State Highway 331, 4.5 miles south of Bremen.	c534	1956, 1961-65 1967-69 1971	04-27-71	12.3
05517550	Reeves ditch near LaCrosse, Ind.	Lat 41°19'03", long 86°55'49", on line between secs.12 and 13, T.33 N., R.5 W., Porter-LaPorte County line, at bridge on State Highway 8, 2.0 miles west of LaCrosse.	44.1	1961-65 1968, 1971	04-28-71	31.9

a--about

b-11.46 sq mi does not contribute directly to surface runoff.

c-5.62 sq mi does not contribute directly to surface runoff.

DISCHARGE AT PARTIAL-RECORDS STATIONS AND MISCELLANEOUS SITES
Measurements at miscellaneous sites

Measurements of streamflow at points other than gaging stations or partial-record stations are given in the following table.

Discharge measurements made at miscellaneous sites during water year 1971

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
STREAMS TRIBUTARY TO LAKE ERIE						
St. Joseph River						
Fawn River	St. Joseph River	Lat 41°44'24", long 85°10'18", in NW 1/4 sec. 20, T. 38 N., R. 12 E., Steuben County, at bridge on State Road 327, 0.6 mile north of Orland.	81.4	1943-47	07-21-71	6.34
Pigeon Creek	do	Lat 41°37'55", long 84°56'16", in SE 1/4 sec. 29, T. 37 N., R. 14 E., Steuben County, at bridge on U.S. Highway 20, 3.2 miles east of Angola.	30.6	1955-61	07-22-71	2.65
Turkey Creek	Pigeon Creek	Lat 41°31'21", long 85°10'12", in W 1/2 sec. 20, T. 36 N., R. 12 E., Steuben County, at bridge on State Road 327, 1.7 miles north of Helmer.			07-20-71	0.72
Turkey Creek	do	Lat 41°38'28", long 85°15'16", in NE 1/4 sec. 28, T. 37 N., R. 11 E., Lagrange County, 3.4 miles southeast of Mongo.			07-21-71	15.9
East Fly Creek	do	Lat 41°38'31", long 85°20'22", in NW 1/4 sec. 26, T. 37 N., R. 10 E., Lagrange County, at bridge on U.S. Highway 20, 4.1 miles east of Lagrange.			07-21-71	0.32
Pigeon River	St. Joseph River	Lat 41°43'02", long 85°25'34", in SW 1/4 sec. 30, T. 38 N., R. 10 E., Lagrange County, at bridge on State Road 9, 0.2 mile south of Howe.			07-21-71	96.6
East Buck Creek ditch	Pigeon River	Lat 41°38'29", long 85°27'23", in NW 1/4 sec. 26, T. 37 N., R. 9 E., Lagrange County, at bridge on U.S. Highway 20, 2.0 miles west of Lagrange.			07-21-71	1.69
Pigeon River	St. Joseph River	Lat 41°43'07", long 85°28'36", in SW 1/4 sec. 27, T. 38 N., R. 9 E., Lagrange County, at bridge on State Road 120, 2.8 miles west of Howe.			07-21-71	116
Page ditch	Pigeon River	Lat 41°43'37", long 85°34'21", in NW 1/4 sec. 26, T. 38 N., R. 8 E., Lagrange County, at bridge on State Road 120, 3.5 miles northeast of Shipshewana.			07-21-71	2.88
Truesdale ditch	do	Lat 41°43'36", long 85°35'38", in NW 1/4 sec. 27, T. 38 N., R. 8 E., Lagrange County, at bridge on State Road 120, 3.5 miles northwest of Shipshewana.			07-21-71	0.16
Bontrager ditch	Little Elkhart River	Lat 41°37'06", long 85°34'46", in NW 1/4 sec. 35, T. 37 N., R. 8 E., Lagrange County, at bridge on State Road 5, 5.8 miles northwest of Topeka.			07-21-71	7.04
Little Elkhart River	St. Joseph River	Lat 41°39'15", long 85°40'14", on line between secs. 13 and 24, T. 37 N., R. 7 E., Elkhart County, at bridge on U.S. Highway 20, 2.2 miles southeast of Middlebury.			07-20-71	17.7
Rowe-Eden ditch	Little Elkhart River	Lat 41°39'15", long 85°40'51", on line between secs. 14 and 23, T. 37 N., R. 7 E., Elkhart County, at bridge on U.S. Highway 20, 2.0 miles southeast of Middlebury.			07-20-71	12.9
Little Elkhart River	St. Joseph River	Lat 41°41'03", long 85°42'05", in SE 1/4 sec. 3, T. 37 N., R. 7 E., Elkhart County, at bridge on State Road 13, 0.4 mile northeast of Middlebury.			07-20-71	32.8
Little Elkhart River	do	Lat 41°43'23", long 85°48'41", in NW 1/4 sec. 26, T. 38 N., R. 6 E., Elkhart County, at bridge on State Road 15 in Bristol.			07-20-71	49.6
Pine Creek	do	Lat 41°41'56", long 85°53'43", in SE 1/4 sec. 36, T. 38 N., R. 5 E., Elkhart County, at bridge on State Road 319, 1.0 mile east of Elkhart.			07-20-71	3.04
Gretzinger ditch	North Branch Elkhart River	Lat 41°27'10", long 85°21'37", in NW 1/4 sec. 34, T. 35 N., R. 10 E., Noble County, at bridge on U.S. Highway 6, 4.6 miles west of Kendallville.			07-22-71	0.27
Dry Run	do	Lat 41°27'10", long 85°23'35", in NE 1/4 sec. 32, T. 35 N., R. 10 E., Noble County, at bridge on U.S. Highway 6, 0.3 mile east of Brimfield.			07-22-71	0.01
Huston ditch	do	Lat 41°27'11", long 85°27'32", in W 1/2 sec. 35, T. 35 N., R. 9 E., Noble County, at bridge on U.S. Highway 6, 1.3 miles east of Wawaka.			07-22-71	0.90
Elkhart River	St. Joseph River	Lat 41°30'28", long 85°41'36", in NW 1/4 sec. 11, T. 35 N., R. 7 E., Elkhart County, at bridge on State Road 13, 1.1 miles south of Millersburg.			07-20-71	54.8
Solomon Creek	Elkhart River	Lat 41°27'58", long 85°43'41", in NW 1/4 sec. 28, T. 35 N., R. 7 E., Elkhart County, at bridge on county road, 3.0 miles northeast of Syracuse.			07-19-71	1.02
Turkey Creek	do	Lat 41°24'18", long 85°51'01", in NE 1/4 sec. 17, T. 34 N., R. 6 E., Kosciusko County, at bridge on State Road 13 at south edge of Milford.			07-20-71	6.82

Discharge measurements made at miscellaneous sites during water year 1971--Continued

Stream	Tributary to	Location	Drainage area (sq mi)	Measured previously (water years)	Measurements	
					Date	Discharge (cfs)
STREAMS TRIBUTARY TO LAKE ERIE--Continued						
St. Joseph River--Continued						
Berlin Court ditch	Turkey Creek	Lat 41°26'25", long 85°55'28", in SE½ sec. 34, T. 35 N., R. 5 E., Elkhart County, at bridge on county road, 3.5 miles east of Nappanee.			07-20-71	0.72
Rock Run Creek	Elkhart River	Lat 41°35'15", long 85°49'31", in SW¼ sec. 10, T. 36 N., R. 6 E., Elkhart County, at bridge on State Road 4, 0.5 mile east of State Road 15 in Goshen.			07-20-71	7.67

For several years records of the water-surface elevations of many of the lakes in Indiana have been collected by the Geological Survey under cooperative agreement with the Indiana Department of Natural Resources. Basic data for a few selected lakes have been published in WSP 1363, entitled "Hydrology of Indiana Lakes." Records which have not been published are available in the files of the District Office of the Geological Survey in Indianapolis, Indiana. In general, the records are based on once-daily readings of a staff gage by a local observer and consist of daily, monthly, and yearly mean water-surface elevations as well as graphs showing the fluctuation in elevation. Discharge measurements, made at the outflow, are also available in some instances.

The lakes for which records have been collected are listed by downstream order number in the following table. The established level, sometimes referred to as the legal level, is that elevation set by the courts to which the average level of the lake is to be held; it is normally set at about the average level that has prevailed for a number of years prior to the establishment of the level. Surface area and capacity of lake is that surface area and capacity at the established level. Depth contour maps are only those surveyed by the Lake Section of Water Resources Division of the Geological Survey.

Lakes in the Ohio River basin for which records are available

Lake	County	Drainage Area (square mile)	Surface Area (acres)	Established Levelxx	Capacity (acre-feet)	Depth Contour Map available	Records available
LAUGHERY CREEK BASIN							
03-2768.00 Versailles Lake near Versailles	Ripley	167.0	232	-	-	-	1957-70
BAYOU DRAIN BASIN							
03-3223.00 Hovey Lake near Mount Vernon	Posey	6.34	253	-	-	-	1950-69
WABASH RIVER BASIN							
03-3275.50 Everett Lake at Levert	Allen	1.07	43	835.13	650	+	1946-66
03-3276.00 Blue Lake near Churubusco	Whitley	3.58	239	850.28	5010	+	1946-69
03-3276.50 Shriner Lake at Tri-Lakes	Whitley	0.94	111	907.04	-	-	1943-71
03-3277.00 Cedar Lake at Tri-Lakes	Whitley	0.79	131	901.90	-	-	1943-49
03-3277.50 Round Lake at Tri-Lakes	Whitley	3.36	125	901.90	-	-	1943-53
03-3278.00 Wilson Lake near Larwill	Whitley	0.46	29	865.39	390	+	1946-52
03-3278.50 Little Wilson Lake near Larwill	Whitley	0.52	8	865.39	130	+	1946-52
03-3281.00 Long Lake at Laketon	Wabash	0.55	48	751.19	760	+	1946-51
03-3282.50 North Little Lake at Silver Lake	Kosciusko	2.89	12	861.73	170	+	1959-71
03-3283.50 Silver Lake at Silver Lake	Kosciusko	6.31	102	861.73	1520	+	1947-71
03-3284.00 Lukens Lake near Disko	Wabash	1.76	46	-	1010	+	1948-49
03-3300.20 Crooked Lake near Wolf Lake	Noble	1.51	206	905.69	9040	+	1959-71
03-3300.40 Big Lake near Wolf Lake	Noble	8.89	228	898.18	5630	+	1943-53
03-3300.60 Goose Lake near Lorane	Whitley	1.51	84	910.96	2180	+	1943-71
03-3300.80 Loon Lake at Ormas	Whitley	11.1	222	895.14	5730	+	1945-53
03-3301.00 New Lake near Etna	Whitley	0.29	50	903.91	880	+	1943-66
03-3301.20 Old Lake near Etna	Whitley	2.81	32	898.07	620	+	1945-53
03-3301.40 Smalley Lake near Washington Center	Noble	27.1	69	-	1520	+	1949-66
03-3301.60 Gilbert Lake near Washington Center	Noble	0.37	28	-	490	+	1943-71
03-3301.80 Horseshoe Lake nr Washington Center	Noble	1.62	18	901.80	250	+	1954-71
03-3302.00 Baugher Lake near Washington Center	Noble	31.0	32	878.52	390	+	1945-66
03-3302.20 Wilmet Pond at Wilmet a	Noble	35.2	10	-	-	-	1945-51
03-3302.40 Webster Lake at North Webster	Kosciusko	49.2	774	852.75	-	-	1943-71
03-3302.43 James Lake at Oswego	Kosciusko	55.9	282	836.40	7580	+	1943-71
03-3302.60 Robinson Lake near Pierceton	Kosciusko	7.15	59	851.09	1170	+	1946-51
03-3302.80 Troy Cedar Lake near Lorane	Whitley	5.33	93	905.41	2540	+	1945-52
03-3303.00 Ridinger Lake near Pierceton	Kosciusko	34.6	136	843.12	2900	+	1943-71
03-3303.20 Kuhn Lake near North Webster	Kosciusko	3.85	137	837.50	1290	+	1945-71
03-3303.40 Big Barbee Lake near North Webster	Kosciusko	44.7	304	837.50	5640	+	1945-71
03-3303.60 Little Barbee Lake near North Webster	Kosciusko	49.0	74	837.50	960	+	1945-71
03-3303.80 Shoe Lake near Oswego	Kosciusko	0.34	40	841.57	-	-	1946-53
03-3304.00 Banning Lake near North Webster	Kosciusko	0.48	12	837.50	110	+	1945-71
03-3304.20 Irish Lake near North Webster	Kosciusko	50.9	182	837.50	2330	+	1945-71
03-3304.40 Sechrist Lake near North Webster	Kosciusko	0.58	105	837.50	2490	+	1945-71
03-3304.60 Sawmill Lake near North Webster	Kosciusko	51.8	36	837.50	370	+	1945-71
03-3304.80 Tippecanoe Lake at Oswego	Kosciusko	113	768	836.40	28,380	+	1943-71
03-3304.95 Oswego Lake at Oswego	Kosciusko	113	83	836.40	780	+	1943-71
03-3310.10 Big Chapman Lake near Warsaw b	Kosciusko	4.17	581	827.75	6080	+	1945-71
03-3310.20 Little Chapman Lake near Warsaw	Kosciusko	7.13	177	827.75	1990	+	1945-71
03-3310.40 Pike Lake at Warsaw	Kosciusko	41.5	203	805.64	2830	+	1954-71
03-3310.60 Fish Lake near Warsaw	Kosciusko	4.93	15	845.52	-	-	1951-66
03-3310.80 Muskelonge Lake near Warsaw	Kosciusko	11.8	32	842.67	300	+	1943-53
03-3311.00 Carr Lake near Claypool	Kosciusko	2.27	79	848.88	1340	+	1959-71
03-3311.20 Sherburn Lake near Pierceton c	Kosciusko	5.51	15	-	230	+	1947-53
03-3311.40 Winona Lake at Warsaw	Kosciusko	32.1	562	811.06	16,680	+	1954-71
03-3311.60 Center Lake at Warsaw	Kosciusko	0.73	120	803.86	2060	+	1945-71
03-3311.80 Palestine Lake at Palestine	Kosciusko	32.4	290	-	1170	+	1954-71
03-3312.00 Crystal Lake near Atwood	Kosciusko	0.45	76	789.69	930	+	1945-51
03-3312.20 Hoffman Lake at Atwood	Kosciusko	8.07	180	785.85	3160	+	1945-53

Lakes in the Ohio River basin for which records are available--Continued

Lake	County	Drainage Area (Square mile)	Surface Area (acres)	Established Levelxx	Capacity (acre-feet)	Depth Contour Map available	Records available
WABASH RIVER BASIN--Continued							
03-3312.40 Beaver Dam Lake near Silver Lake	Kosciusko	2.83	146	868.95	3280	+	1947-53
03-3312.60 Loon Lake near Silver Lake	Kosciusko	3.59	40	865.74	670	+	1947-53
03-3312.80 McClures Lake near Silver Lake	Kosciusko	1.29	32	865.85	410	+	1945-52
03-3313.00 Hill Lake near Silver Lake	Kosciusko	0.85	67	871.50	1300	+	1952-71
03-3313.20 Diamond Lake near Silver Lake	Kosciusko	3.92	79	-	1280	+	1954-71
03-3313.40 Yellow Creek Lake near Silver Lake	Kosciusko	11.1	151	860.50	4730	+	1945-53
03-3313.60 Rock Lake near Akron	Kosciusko	2.74	56	847.29	360	+	1946-66
03-3313.70 Town Lake near Akron	Fulton	2.77	23	-	220	+	1949-50
03-3313.80 Lake Manitou at Rochester	Fulton	44.2	631	778.41	-	-	1943-71
03-3313.90 Zink Lake near Rochester	Fulton	1.11	19	810.68	-	-	1952-55
03-3314.00 Nyona Lake near Greenoak	Fulton	7.59	104	793.91	1340	+	1946-71
03-3314.20 South Mud Lake near Fulton	Fulton	4.53	94	793.42	1020	+	1946-66
03-3314.38 King Lake near Delong	Fulton	1.98	18	-	180	+	1971
03-3314.40 Maxinkuckee Lake at Culver	Marshall	13.7	1864	733.12	45,600	+	1943-71
03-3314.60 Lost Lake near Culver d	Marshall	14.2	40	732.00	-	-	1954-71
03-3314.80 Langenbaum Lake near Monterey	Starke	0.72	48	717.96	260	+	1954-66
03-3317.00 Bruce Lake at Bruce Lake	Pulaski	6.38	245	723.69	1790	+	1943-53
03-3322.00 Fletcher Lake at Fletcher	Fulton	0.67	45	783.20	880	+	1946-53
03-3709.00 Starve Hollow Lake near Vallonia	Jackson	6.67	145	-	980	+	1946-61
03-3717.00 Ogle Lake near Nashville	Brown	1.03	20	-	250	+	1963-71
							1954-71

Lakes in the St. Lawrence River basin for which records are available

STREAMS TRIBUTARY TO LAKE MICHIGAN

04-0925.00 Wolf Lake at Hammond	Lake	5.72	999	-	-	-	1946-49
04-0929.90 Lake George at Hobart	Lake	125	282	602.23	-	-	1946-71
04-0975.20 Lake Pleasant near Nevada Mills	Steuben	2.51	424	-	3490	+	1954-71
04-0975.50 Lake George at Jamestown	Steuben	12.3	488	985.28	-	-	1946-71
04-0975.96 Marsh Lake near Fremont	Steuben	14.8	-	-	-	-	1967-69
04-0976.00 Little Otter Lake near Fremont	Steuben	14.3	34	965.18	740	+	1946-53
04-0976.40 Big Otter Lake near Fremont	Steuben	19.8	69	965.18	1780	+	1946-53
04-0976.50 Snow Lake at Lake James	Steuben	36.3	310	964.96	7,998	+	1943-49
04-0976.60 Lake James at Lake James	Steuben	43.0	1,034	964.96	33,585	+	1943-49
04-0976.80 Jimmerson Lake at Nevada Mills e	Steuben	47.0	283	964.66	-	-	1946-71
04-0977.80 Loon Lake near Angola	Steuben	2.73	138	1,011.98	630	+	1954-66
04-0978.50 Crooked Lake at Crooked Lake	Steuben	11.9	733	988.17	-	-	1946-70
04-0979.50 Lake Gage at Panama	Steuben	17.2	324	954.25	-	-	1946-71
04-0979.60 Lime Lake at Panama	Steuben	17.4	44	954.25	-	-	1946-71
04-0981.00 Wall Lake near Orland	Lagrange	1.43	141	942.25	1640	+	1953-54
04-0981.10 Mud Lake near Orland	Steuben	1.64	25	939.01	-	-	1956-67
04-0983.00 Cedar Lake near Ontario	Lagrange	1.66	120	871.90	1020	+	1948-51
04-0990.50 Pigeon Lake near Angola	Steuben	30.6	61	988.24	930	+	1954-63
04-0991.00 Fox Lake near Angola	Steuben	1.13	142	1,018.83	3150	+	1946-53
04-0991.90 Pleasant Lake at Pleasant Lake	Steuben	0.94	53	963.52	1190	+	1946-66
04-0992.00 Long Lake at Moonlight	Steuben	70.8	92	-	1540	+	1946-71
04-0992.50 Bower Lake near Pleasant Lake	Steuben	87.5	25	948.50	280	+	1946-71
04-0992.60 Golden Lake near Pleasant Lake	Steuben	92.4	119	948.50	1810	+	1946-71
04-0994.00 Silver Lake near Angola	Steuben	3.72	238	959.40	2540	+	1945-53
04-0994.30 Bass Lake near Angola	Steuben	0.60	61	979.68	450	+	1954-66
04-0994.40 Howard Lake near Angola	Steuben	3.94	27	977.34	130	+	1954-63
04-0995.00 Hogback Lake near Angola	Steuben	102	146	948.50	1450	+	1946-71
04-0995.20 Otter Lake near Flint	Steuben	6.82	118	934.15	1960	+	1954-66
04-0995.40 Story Lake near Hudson	Dekalb	2.48	77	942.20	1020	+	1946
							1954-66
04-0995.60 Big Turkey Lake at Stroh	Lagrange	34.6	450	926.61	7,300	+	1945-66
04-0995.75 McClish Lake near Helmer	Lagrange	1.36	35	951.09	1210	+	1951-71
04-0995.80 Lake of the Woods near Helmer	Lagrange	5.36	136	951.09	5470	+	1951-71
04-0996.00 Big Long Lake near Stroh	Lagrange	4.13	388	956.21	-	-	1954-71
04-0996.20 Pretty Lake near Stroh	Lagrange	2.91	184	965.50	4720	+	1949-53
							1963-65
04-0996.40 Little Turkey Lake at Elmira	Lagrange	56.0	135	925.72	1550	+	1945-66
04-0996.60 Royer Lake near Plato	Lagrange	4.91	69	936.50	1630	+	1952-71
04-0996.70 Fish Lake near Plato	Lagrange	10.8	100	936.50	4050	+	1945-71
04-0997.00 North Twin Lake near Howe	Lagrange	1.99	135	843.56	2120	+	1953-71
04-0997.10 South Twin Lake near Howe	Lagrange	3.13	116	843.56	3600	+	1953-70
04-0997.40 Shipshewana Lake near Shipshewana	Lagrange	4.00	202	852.04	1350	+	1951-71
04-0997.60 Fish Lake near Scott	Lagrange	6.14	139	814.42	2560	+	1954-70
04-0997.80 Stone Lake near Scott	Lagrange	1.32	152	818.76	2060	+	1954-71
04-0998.00 Emma Lake near Emma	Lagrange	14.8	42	880.87	700	+	1954-66
04-0998.10 Cass Lake near Shipshewana	Lagrange	-	89	-	873	+	1970-71
04-0998.20 Hunter Lake near Middleburg	Elkhart	0.72	99	856.90	1120	+	1946-53
04-0998.40 Wolf Lake near Goshen	Elkhart	0.87	100	813.00	-	-	1947-57

Lakes in the St. Lawrence River Basin for which records are available--Continued

Lake	County	Drainage Area (Square mile)	Surface Area (acres)	Established Levelxx	Capacity (acre-feet)	Depth Contour Map available	Records available
STREAMS TRIBUTARY TO LAKE MICHIGAN--Continued							
04-0998.60 Heaton Lake near Elkhart	Elkhart	8.78	87	767.30	640	+	1946-53
04-0998.80 Simonton Lake near Elkhart	Elkhart	4.37	282	772.19	1560	+	1969-71
04-0999.50 Indiana Lake near Bristol	Elkhart	0.53	122	759.73	3400	+	1946-71
04-1000.10 Cree Lake near Kendallville	Noble	*4.85	58	945.23	910	+	1949-66
04-1000.20 Blackman Lake near Wolcottville	Lagrange	*0.98	67	974.20	1210	+	1953-59
04-1000.30 Adams Lake near Wolcottville	Lagrange	*5.62	308	953.59	7690	+	1946-71
04-1000.40 Atwood Lake near Wolcottville	Lagrange	*1.23	170	899.99	1560	+	1948-53
04-1000.50 Wlmer Lake near Wolcottville	Lagrange	*36.1	204	897.36	7040	+	1945-71
04-1000.60 Westler Lake near Wolcottville	Lagrange	*37.8	88	897.36	1770	+	1945-71
04-1000.70 Dallas Lake near Wolcottville	Lagrange	*39.8	283	897.36	9970	+	1945-71
04-1000.80 Martin Lake near Valentine	Lagrange	*4.93	26	899.45	890	+	1945-71
04-1000.90 Olin Lake near Valentine	Lagrange	*5.81	103	899.45	9180	+	1945-71
04-1001.00 Oliver Lake near Valentine	Lagrange	*11.1	362	899.45	-	-	1945-71
04-1001.10 Hackenburg Lake near Wolcottville	Lagrange	*55.4	42	897.36	510	+	1945-71
04-1001.20 Messick Lake near Wolcottville	Lagrange	*56.4	68	897.36	1450	+	1945-71
04-1001.30 Jones Lake near Cosperville f	Noble	*70.3	114	885.55	960	+	1948-71
04-1001.40 Bixler Lake at Kendallville	Noble	*5.28	120	963.65	2090	+	1945-71
04-1001.50 Round Lake at Kendallville	Noble	*3.47	99	954.50	2140	+	1954-71
04-1001.60 Little Long Lake at Kendallville	Noble	*4.55	71	954.50	1750	+	1954-71
04-1001.70 Latta Lake near Rome City	Noble	*2.52	42	918.71	900	+	1954-66
04-1001.80 Sylvan Lake at Rome City	Noble	*33.8	575	916.20	-	-	1943-71
04-1001.90 Sacarider Lake near Kendallville	Noble	*1.43	33	-	740	+	1954-63
04-1002.00 Tamarack Lake near Cosperville	Noble	*15.9	50	885.55	880	+	1948-71
04-1002.10 Steinbarger Lake near Cosperville	Noble	*24.3	73	885.55	1590	+	1948-71
04-1002.20 Waldron Lake near Cosperville	Noble	*134	216	885.55	3120	+	1948-71
04-1002.30 Long Lake near Burr Oak	Noble	12.0	40	895.82	630	+	1954-71
04-1002.40 Sand Lake near Burr Oak	Noble	*14.9	47	893.56	1270	+	1946-51
04-1002.50 Rivir Lake near Burr Oak	Noble	*18.6	24	-	380	+	1954-65
04-1002.58 High Lake near Wolflake	Noble	*4.43	123	896.35	1240	+	1961-71
04-1002.60 Bear Lake near Wolflake	Noble	*6.98	136	894.60	3030	+	1943-71
04-1002.80 Muncie Lake near Butt Oak	Noble	*42.8	47	-	580	+	1954-71
04-1002.90 Silver Lake near Wolflake	Noble	*0.28	34	-	220	+	1953-63
04-1003.00 Skinner Lake near Albion	Noble	*14.0	125	927.74	1750	+	1945-71
04-1003.10 Pleasant Lake near Wolflake	Noble	*0.29	20	-	540	+	1952-53
04-1003.20 Upper Long Lake near Wolflake	Noble	*2.08	86	-	1900	+	1956-71
04-1003.30 Lower Long Lake near Albion	Noble	*4.35	66	889.81	1560	+	1946-52
04-1003.40 Eagle Lake near Kimmel	Noble	*3.22	81	-	1050	+	1946-48
04-1003.50 Diamond Lake near Wawaka	Noble	*4.80	105	-	2580	+	1946-71
04-1003.60 Sparta Lake at Kimmel	Noble	*0.69	31	888.50	170	+	1946-51
04-1003.70 Engle Lake near Ligonier	Noble	*14.19	48	-	670	+	1956-71
04-1003.80 Harper Lake near Washington Center	Noble	*2.76	11	878.25	160	+	1946-71
04-1003.90 Knapp Lake near Washington Center	Noble	*6.02	88	878.25	3040	+	1946-71
04-1004.00 Moss Lake near Washington Center	Noble	*6.12	9	878.25	80	+	1946-71
04-1004.10 Hindman Lake near Washington Center	Noble	*8.66	13	878.25	140	+	1946-71
04-1004.20 Gordy Lake near Cromwell	Noble	*9.40	31	876.68	680	+	1953-66
04-1004.25 Rider Lake near Cromwell	Noble	*10.9	5	876.68	30	+	1953-66
04-1004.30 Duely Lake near Cromwell g	Noble	*11.2	21	876.68	180	+	1953-66
04-1004.40 Village Lake near Cromwell	Noble	*12.0	12	876.68	160	+	1953-66
04-1004.46 Flatbelly Lake near Syracuse	Kosciusko	*4.66	326	-	-	-	1964-69
04-1004.48 Papakeechie Lake near Syracuse	Kosciusko	*5.52	300	-	-	-	1964-69
04-1004.50 Wawasee Lake at Wawasee	Kosciusko	*36.9	3060	858.89	67,210	+	1943-66
04-1004.60 Syracuse Lake at Syracuse	Kosciusko	*38.2	414	858.87	5360	+	1943-71
04-1004.70 Dewart Lake near Leesburg	Kosciusko	*18.05	551	867.70	9000	+	1945-71
04-1004.80 Wabee Lake near Milford	Kosciusko	*14.6	187	829.79	4750	+	1946-53

STREAMS TRIBUTARY TO LAKE ERIE

04-1772.00 Clear Lake at Clear Lake	Steuben	6.86	800	1,037.38	24,990	+	1943-71
04-1772.10 Round Lake at Clear Lake	Steuben	7.25	30	1,037.38	340	+	1943-71
04-1773.00 Long Lake near Ray	Steuben	2.80	154	-	1840	+	1961-63
04-1776.80 Ball Lake near Hamilton	Steuben	11.6	87	-	3520	+	1961-71
04-1777.00 Hamilton Lake at Hamilton	Steuben	16.5	802	898.83	16,600	+	1943-71
04-1792.00 Indian Lake near Corunna	Dekalb	3.76	56	-	1220	+	1957-70
04-1793.00 Cedar Lake near Waterloo	Dekalb	23.4	28	896.76	230	+	1943-56

Lakes in the Upper Mississippi River basin for which records are available

ILLINOIS RIVER BASIN

05-5147.40 Saugany Lake near Rolling Prairie	Laporte	*m2.34	74	781.21	2190	+	1946-50
05-5147.41 Hudson Lake at Hudson Lake	Laporte	*7.92	432	763.09	5060	+	1946-71
05-5147.50 North Chain Lake at Lydick	St. Joseph	*n3.89	88	721.17	1400	+	1946-53
05-5147.60 South Chain Lake at Westfield	St. Joseph	*p6.32	90	717.04	270	-	1946-53
05-5147.70 Wharton Lake near South Bend	St. Joseph	*1.85	-	-	-	-	1960-71
05-5149.00 Silver Lake near Rolling Prairie	LaPorte	*1.72	54	795.20	-	-	1946-66

Lakes in the Upper Mississippi River basin for which records are available--Continued

Lake	County	Drainage Area (square mile)	Surface Area (acres)	Established Levelxx	Capacity (acre-feet)	Depth Contour Map available	Records available
ILLINOIS RIVER BASIN--Continued							
05-5152.00 Upper Fish Lake near Stillwell	LaPorte	*q9.65	139	688.22	1040	+	1946-53
05-5152.10 Lower Fish Lake near Stillwell	LaPorte	*q10.4	134	688.22	870	+	1946-53
05-5152.20 Pine Lake at LaPorte	LaPorte	*r10.7	564	796.20	-	-	1946-71
05-5152.30 Stone Lake at LaPorte	LaPorte	*r10.7	140	796.20	-	-	1946-71
05-5152.40 Clear Lake at LaPorte	LaPorte	*s0.65	106	798.20	760	+	1942-49
05-5156.00 Koontz Lake at Koontz Lake	Starke	*t6.25	346	714.56	3170	+	1952-71
05-5158.00 Riddles Lake near Lakeville	St. Joseph	*u11.7	77	817.50	640	+	1943-71
05-5162.00 Lake of the Woods near Bremen	Marshall	*v9.45	416	803.85	6810	+	1946-71
05-5166.00 Pretty Lake near Plymouth	Marshall	*0.85	97	787.36	2140	+	1945-66
05-5167.00 Myers Lake near Twin Lakes	Marshall	*1.41	96	768.69	2000	+	1945-53
05-5168.00 Mill Pond and Kreighbaum Lake near Twin Lakes	Marshall	*w5.34	168	767.75	1020	+	1945-53
05-5169.00 Eagle Lake near Ober	Starke	*x25.5	24	713.25	160	+	1946-53
05-5171.00 Skitz Lake near Knox	Starke	-	1,000	-	-	-	1949-53
05-5172.00 Bass Lake at Bass Lake	Starke	*5.18	1400	713.65	-	-	1943-71
05-5176.00 Wauhob Lake near Valparaiso	Porter	*0.40	21	-	-	-	1946-71
05-5176.50 Long Lake near Valparaiso	Porter	*1.31	65	797.66	520	+	1947-52
05-5176.70 Spectacle Lake near Valparaiso	Porter	*0.53	62	812.82	540	+	1946-53
05-5177.00 Flint Lake near Valparaiso	Porter	*2.62	86	797.66	-	-	1946-71
05-5178.00 Eliza Lake near Beatrice	Porter	*1.70	45	-	-	-	1954-71
05-5187.00 Cedar Lake at Cedar Lake	Lake	*8.14	781	-	6750	+	1943-71
05-5188.00 Dalecarlia Lake near Creston	Lake	*20.1	193	-	-	-	1947-52
05-5213.00 Ringneck Lake near Medaryville	Jasper	*1.94	1400	-	-	-	1949-55
05-5257.00 J.C. Murphy Lake near Morocco	Newton	*13.0	1515	-	-	-	1952-61

+ Depth contour maps available for sale by Indiana Department of Natural Resources, State Office Building, Indianapolis, Indiana

* Revised.

xx Elevation, in feet, above mean sea level.

a Formerly published as Rider Lake at Wilmot.

b Formerly published as Chapman Lake near Warsaw.

c Formerly published as Johnson Lake near Pierceton.

d Formerly published as Hawks Lake near Culver.

e Formerly published as Jimerson Lake at Nevada Mills.

f Formerly published as Sanford Lake near Cosperville.

g Formerly published as Duley Lake near Cromwell, and Druley Lake near Cromwell, and Druley Lake near Cromwell.

h 0.80 sq mi does not contribute directly to surface-water runoff.

j 1.84 sq mi does not contribute directly to surface-water runoff.

k 3.20 sq mi does not contribute directly to surface-water runoff.

m 1.46 sq mi does not contribute directly to surface-water runoff.

n 2.81 sq mi does not contribute directly to surface-water runoff.

p 2.23 sq mi does not contribute directly to surface-water runoff.

q 1.49 sq mi does not contribute directly to surface-water runoff.

r 8.10 sq mi does not contribute directly to surface-water runoff.

s 0.40 sq mi does not contribute directly to surface-water runoff.

t 1.42 sq mi does not contribute directly to surface-water runoff.

u 2.49 sq mi does not contribute directly to surface-water runoff.

v 1.26 sq mi does not contribute directly to surface-water runoff.

w 1.66 sq mi does not contribute directly to surface-water runoff.

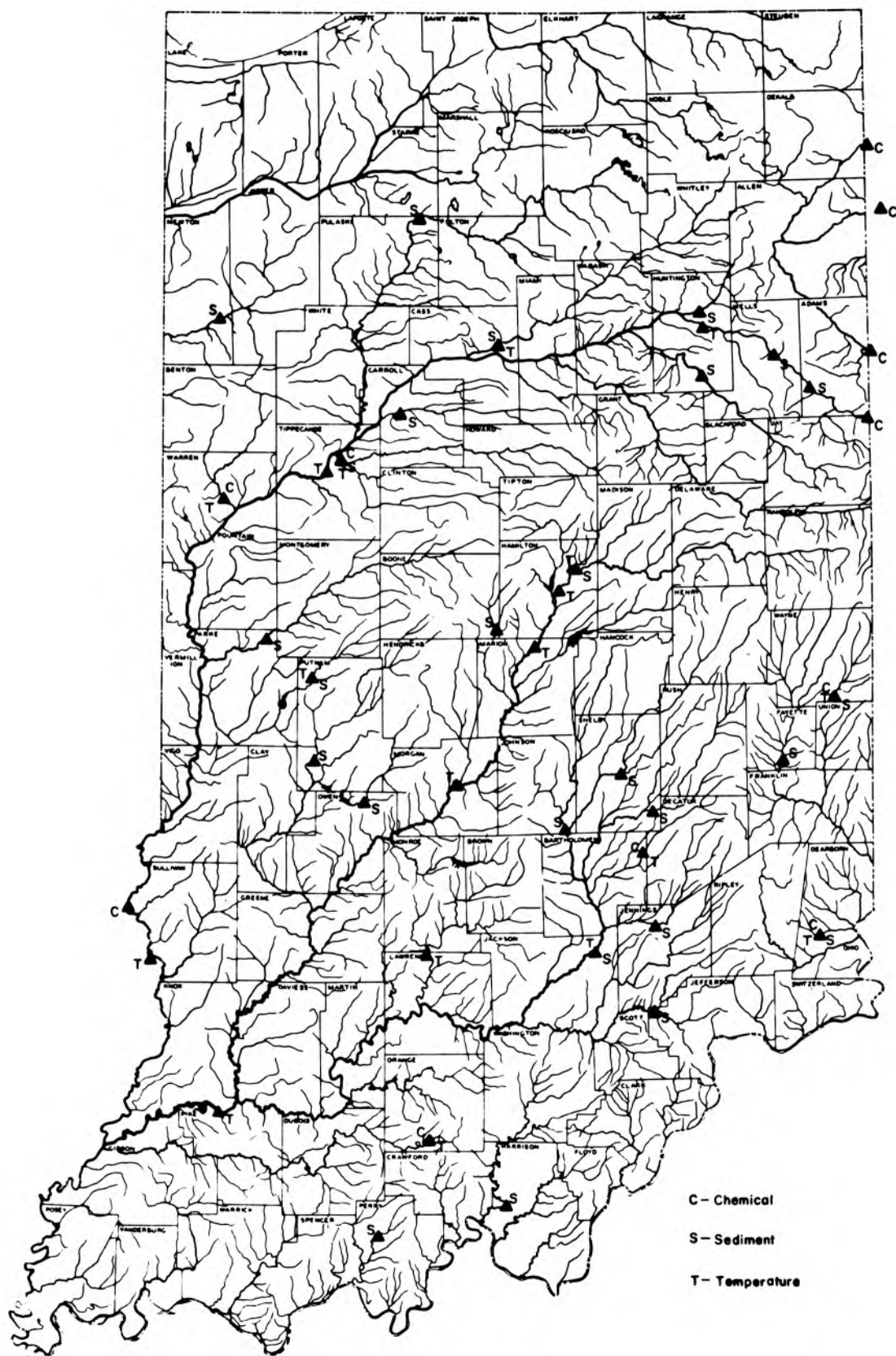
x 1.97 sq mi does not contribute directly to surface-water runoff.

The lakes in Indiana which are not included in the cooperative stabilization program but which have been mapped for recreational purposes are shown in the following table. Surface areas and capacities are related to reference mean sea level elevation at time of mapping. Additional data is shown on map which are available for sale by the Indiana Department of Natural Resources, State Office Building, Indianapolis, Indiana.

Lake	County	Surface Area (acres)	Capacity (acre-feet)	Lake	County	Surface Area (acres)	Capacity (acre-feet)
OHIO RIVER BASIN							
Barr Lake	Fulton	22	470	Lake 16	Fulton	27	220
Bischoff Reservoir	Ripley	200	1920	Larwill Lake	Whitley	9	170
Black Lake	Whitley	24	400	Lenape Lake	Greene	36	330
Bowen Lake	Scott	7	60	Lincoln Park Lake	Spencer	58	520
Brown Lake	Whitley	23	580	Little Pike Lake	Kosciusko	25	140
Caldwell Lake	Kosciusko	45	800	McColley Lake	Wabash	28	410
Crane Lake	Noble	28	360	Round Lake	Wabash	48	540
Crosley Lake	Jennings	14	130	Scales Lake	Warrick	66	520
Ferdinand Lake	Dubois	42	440	Schlamm Lake	Clark	19	170
Frankie Lake	Clark	9	70	Sellers Lake	Kosciusko	32	340
Hartz Lake	Starke	28	370	Shakamak Lake	Clay	56	610
Kunkel Lake	Wells	25	150	Twin Lakes	Wabash	18	190
Lake Freeman	Carroll	1547	26,000	Whitewater Lake	Union	199	3650
Lake Shafer	White	1291	13,120	Yellowwood Lake	Brown	133	1890
STREAMS TRIBUTARY TO LAKE MICHIGAN							
Appleman Lake	Lagrange	52	590	Mateer Lake	Lagrange	18	150
Bartley Lake	Noble	34	430	Miller Lake	Noble	11	160
Barton Lake	Steuben	94	1340	Millers Lake	Noble	28	410
Bell Lake	Steuben	38	510	Mud Lake	Noble	8	70
Boner Lake	Kosciusko	40	370	Norman Lake	Noble	14	280
Bowen Lake	Noble	30	1080	Pigeon Lake	Lagrange	61	1160
Bristol Lake	Noble	27	740	Port Mitchell Lake	Noble	15	180
Buck Lake	Lagrange	18	150	Rainbow Lake	Lagrange	16	250
Center Lake	Steuben	46	390	Schockopee Lake	Noble	21	280
Cline Lake	Lagrange	20	350	Shock Lake	Kosciusko	37	1210
Deer Lake	Noble	36	420	Smith Hole	Lagrange	2	10
Dock Lake	Noble	16	230	Still Lake	Lagrange	30	620
Eve Lake	Lagrange	31	670	Sweet Lake	Noble	16	210
Fish Lake	Steuben	59	750	Tamarack Lake	Noble	84	1340
Hog Lake	LaPorte	59	690	Walters Lake	Steuben	53	550
Hog Lake	Steuben	48	570	Weir Lake	LaGrange	6	70
Lime Lake	Steuben	30	330	Wible Lake	Noble	49	650
Little Turkey Lake	Steuben	58	780	Williams Lake	Noble	46	1070
Mari Lake	Noble	30	510	Wyland Lake	Kosciusko	6	100
STREAMS TRIBUTARY TO LAKE ERIE							
Dunton Lake	Dekalb	21	340	Mirror Lake	Steuben	9	120
Handy Lake	Steuben	16	290	Terry Lake	Dekalb	17	160
Lake Anne	Steuben	17	280				
UPPER MISSISSIPPI RIVER BASIN							
Cook Lake	Marshall	93	1,650	Gilbert Lake	Marshall	37	490
Dixon Lake	Marshall	33	480	Holem Lake	Marshall	40	390
Flat Lake	Marshall	26	210	Lawrence Lake	Marshall	69	1580

PART 2. WATER QUALITY RECORDS

QUALITY OF WATER STATIONS IN INDIANA



03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IND.

LOCATION.--Lat 39°43'57", long 84°57'35", in NE¼SW¼ sec.2, T.12 N., R.2 W., Union County, at gaging station at downstream side of center pier of bridge on county road at Abington, 3 miles downstream from Elkhorn Creek, and 8 miles southwest of Richmond.

DRAINAGE AREA.--200 sq mi (revised).

PERIOD OF RECORD.--Chemical analyses: October 1969 to September 1971.

Water temperatures: August 1970 to September 1971.

Sediment records: April 1967 to September 1971 (partial-record station).

EXTREMES.--1970-71:

Water temperatures: Maximum, 26.5 °C June 28; minimum, freezing point on many days during January and February.

Period of record:

Water temperatures: Maximum, 26.5 °C June 28, 1971; minimum, freezing point on many days during winter periods.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	TOTAL IRON (FE) (UG/L)	IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO
OCT. 22...	1430	68	9.0	100	30	59	59	85	29	20	.5
NOV. 23...	1240	54	7.3	180	50	18	16	96	29	25	.6
DEC. 30...	1015	61	7.9	90	30	110	96	99	32	26	.6
FEB. 02...	1140	33	8.9	110	50	100	93	110	31	42	.9
MAR. 05...	1140	156	8.4	220	60	88	85	85	26	16	.4
APR. 09...	1030	101	2.7	110	60	74	51	76	30	22	.5
MAY 18...	1020	216	5.5	540	40	120	120	82	27	13	.3
JUNE 22...	1245	62	6.5	330	20	120	44	74	27	27	.7
JULY 26...	1225	42	4.4	240	30	80	80	73	25	25	.6
SEP. 01...	1045	28	5.5	180	20	90	89	79	30	42	1.0

GREAT MIAMI RIVER BASIN

03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IND.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	PERCENT SODIUM	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)	CAR- BONATE (CO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	DIS- SOLVED SOLIDS (PFSI- QUE AT 180 °) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 22...	11	3.4	314	0	57	34	.5	12	418	400
NOV. 23...	13	3.6	340	0	66	38	.4	15	426	447
DEC. 30...	13	3.4	348	0	70	40	.7	26	466	476
FEH. 02...	18	5.4	364	0	81	58	.9	22	533	538
MAR. 05...	10	3.0	288	0	60	30	.4	21	344	392
APR. 09...	13	2.6	296	0	65	40	.6	15	341	400
MAY 18...	8	2.6	302	0	61	21	.4	19	343	380
JUNE 22...	16	3.3	294	0	58	36	.7	14	395	390
JULY 26...	16	3.8	288	0	56	36	.7	8.7	342	375
SEP. 01...	22	5.3	319	0	69	56	1.0	12	458	457

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	ALKA- LITY AS CA CO ₃ (MG/L)	SPECI- FIC CONDU- CTANCE (MICHO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TEMP- ERATURE (DEG C)	AIR TEMP- ERATURE (DEG C)
OCT. 22...	76.7	.57	330	74	258	678	8.6	15	13.5	13.0
NOV. 23...	63.6	.59	360	80	279	749	7.4	5	2.0	-6.0
DEC. 30...	76.8	.63	380	94	285	794	9.0	5	1.0	-4.0
FEH. 02...	47.5	.72	400	100	299	897	7.6	5	.0	-17.0
MAR. 05...	162	.52	320	84	236	652	9.3	--	2.5	3.5
APR. 09...	107	.53	310	67	243	677	8.8	10	4.0	10.0
MAY 18...	223	.52	320	72	248	638	8.2	5	16.5	22.5
JUNE 22...	66.1	.54	300	58	241	649	8.0	10	22.5	25.0
JULY 26...	43.3	.52	290	54	236	654	8.2	10	22.5	27.0
SEP. 01...	34.6	.62	320	58	262	774	8.0	7	21.5	25.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER			NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	
1	15.0	14.0	10.5	10.0	---	---	1.0	0.5	0.0	0.0	---	---	
2	15.0	14.0	10.5	9.0	---	---	2.0	1.0	0.0	0.0	---	---	
3	15.5	14.5	9.0	8.5	---	---	3.0	1.5	0.0	0.0	---	---	
4	15.0	13.0	8.5	8.5	---	---	3.0	1.0	1.5	0.0	---	---	
5	13.5	12.0	8.5	8.0	---	---	1.0	0.0	2.0	0.0	4.5	1.5	
6	15.0	13.5	8.5	7.5	---	---	0.0	0.0	1.0	0.0	4.5	3.5	
7	15.5	14.5	9.0	8.0	---	---	0.0	0.0	0.5	0.0	3.5	1.5	
8	16.5	15.5	8.5	8.0	---	---	0.0	0.0	0.0	0.0	1.5	0.5	
9	17.0	16.5	9.0	8.5	---	---	0.5	0.0	0.0	0.0	3.5	0.5	
10	16.5	15.0	9.5	9.0	---	---	1.0	0.0	0.0	0.0	3.5	1.5	
11	15.0	13.5	9.0	8.5	---	---	1.5	0.5	2.0	0.0	3.0	1.5	
12	15.5	14.0	9.0	7.5	---	---	1.5	1.5	2.0	0.0	2.5	1.5	
13	16.0	15.0	8.0	6.0	---	---	2.0	1.5	0.5	0.0	---	---	
14	16.5	16.0	6.0	5.0	---	---	2.0	1.5	0.0	0.0	---	---	
15	16.5	14.0	5.0	4.0	---	---	1.5	1.0	---	---	---	---	
16	14.0	11.5	4.5	3.5	---	---	1.0	0.5	---	---	---	---	
17	11.5	10.0	4.0	3.5	---	---	0.5	0.0	---	---	---	---	
18	11.0	9.5	5.0	4.0	---	---	0.0	0.0	---	---	---	---	
19	11.0	10.0	6.5	5.0	---	---	0.0	0.0	---	---	---	---	
20	12.0	11.0	6.5	5.0	---	---	0.0	0.0	---	---	---	---	
21	13.0	12.0	5.0	3.0	---	---	0.5	0.0	---	---	---	---	
22	12.5	12.0	3.0	2.0	---	---	1.0	0.0	---	---	---	---	
23	12.0	11.5	2.5	2.0	---	---	0.5	0.0	---	---	---	---	
24	12.0	11.5	2.0	1.5	---	---	1.0	0.0	---	---	---	---	
25	13.5	12.0	2.0	1.5	---	---	1.5	0.5	---	---	---	---	
26	14.5	13.5	3.0	2.0	---	---	0.5	0.0	---	---	---	---	
27	14.5	13.5	5.0	3.0	---	---	0.0	0.0	---	---	---	---	
28	14.0	14.0	6.5	5.0	---	---	0.0	0.0	---	---	---	---	
29	14.0	12.0	7.5	6.0	---	---	0.0	0.0	---	---	---	---	
30	12.0	11.0	8.0	7.0	1.5	1.0	0.0	0.0	---	---	---	---	
31	11.0	10.5	---	---	1.0	1.0	0.0	0.0	---	---	---	---	
MONTH	17.0	9.5	10.5	1.5	---	---	3.0	0.0	---	---	---	---	

[illegible]

HOGAN CREEK BASIN

03276700 SOUTH HOGAN CREEK NEAR DILLSBORO, IND.

LOCATION.--Lat 39°01'47", long 85°02'17", in SW $\frac{1}{4}$ NW $\frac{1}{4}$ sec. 7, T.4 N., R.2 W., Dearborn County, at gaging station on left downstream abutment of bridge on county road at Dillsboro Station, 1.2 miles northeast of Dillsboro, and 1.5 miles downstream from Whitaker Creek.

DRAINAGE AREA.--38.2 sq mi.

PERIOD OF RECORD.--Chemical analysis: October 1968 to September 1971.

Sediment records: August 1969 to September 1971 (partial-record station).

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	IRON (FE) (UG/L)	MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG)	SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO	PERCENT SODIUM	PHOS- PHATE SI-M (K) (MG/L)	BICAR- BONATE (HCO ₃) (MG/L)
OCT.												
13...	1115	16	--	--	--	--	--	--	--	--	--	--
29...	1040	4.0	2.1	50	56	83	14	13	.3	9	4.4	234
NOV.												
25...	1045	9.5	6.7	90	48	89	16	11	.3	8	3.5	262
DEC.												
23...	1130	540	6.5	70	130	42	6.4	4.5	.2	7	3.4	116
JAN.												
04...	0915	--	--	--	--	--	--	--	--	--	--	--
27...	1110	12	4.4	30	50	92	16	12	.3	8	2.5	264
FEB.												
24...	1050	72	6.7	90	51	54	8.2	7.3	.2	8	2.4	152
MAR.												
17...	1115	38	6.7	70	60	66	10	10	.3	9	2.2	190
APR.												
28...	1100	6.6	.6	70	30	90	16	14	.4	9	2.8	240
MAY												
27...	1045	6.2	2.4	230	25	74	13	16	.5	13	3.3	220
JUNE												
22...	1050	2.4	5.3	60	240	72	12	20	.6	16	3.3	212
JULY												
28...	1045	.50	5.3	90	100	77	7.8	15	.4	12	4.1	198
AUG.												
27...	1100	5.3	5.6	100	120	76	13	11	.3	9	4.3	226
SEP.												
23...	1115	8.7	6.7	540	110	85	8.3	11	.3	9	4.5	248

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	CAR- BONATE (CO ₃) (MG/L)	SULFATE (SO ₄) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRATE (NO ₃) (MG/L)	TOTAL PHOS- PHORUS (PO ₄) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TEMP- ERATURE (DEG C)
OCT.											
13...	--	--	--	--	--	--	--	--	--	--	17.0
29...	0	70	14	.4	.1	.33	328	316	3.54	.45	15.5
NOV.											
25...	0	65	16	.2	1.8	.03	336	338	8.62	.46	.5
DEC.											
23...	0	33	8.0	.2	7.0	.41	181	169	264	.25	8.0
JAN.											
04...	--	--	--	--	--	--	--	--	--	--	1.5
27...	0	76	17	.2	2.8	.14	353	348	11.4	.48	.0
FEB.											
24...	0	43	12	.3	6.7	.09	232	216	45.1	.32	3.5
MAR.											
17...	0	52	14	.7	2.0	.12	263	257	27.0	.36	5.5
APR.											
28...	0	92	16	.0	.0	.07	373	349	6.65	.51	15.5
MAY											
27...	0	66	18	.0	.6	.29	323	302	5.41	.44	17.5
JUNE											
22...	0	68	18	.3	.4	.09	313	303	2.03	.43	24.0
JULY											
28...	0	65	20	.2	.0	.07	314	292	.42	.43	23.0
AUG.											
27...	0	65	13	.2	.5	.14	306	300	4.38	.42	22.0
SEP.											
23...	0	57	12	.3	.1	.19	302	308	7.09	.41	17.0

03276700 SOUTH HOGAN CREEK NEAR DILLSBORO, IND.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	AIR TEMP- ERATURE (DEG C)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	ALKA- LINIT- AS CACO ₃ (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	RIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMPF- DI-UTE COLI- FORM (COL. PEN 100 ML)
OCT. 13...	--	--	--	--	--	--	--	--	--	--	--
29...	16.0	260	72	192	515	7.9	10	2.6	9.6	95	460
NOV. 25...	15.5	290	75	215	568	9.0	2	3.5	14.4	100	210
DEC. 23...	14.0	130	35	95	291	8.1	20	5.6	11.4	96	4000
JAN. 04...	-16.0	--	--	--	650	8.8	--	4.8	10.4	74	16300
27...	-12.0	300	83	217	592	9.5	5	1.6	12.6	86	42
FEB. 24...	6.5	170	46	125	369	8.6	10	2.8	12.4	93	2000
MAR. 17...	4.0	210	54	156	450	11.1	10	3.4	11.8	94	220
APR. 28...	16.0	290	93	197	600	8.4	10	2.0	8.8	87	670
MAY 27...	14.0	240	60	180	470	8.6	15	2.6	8.8	92	490
JUNE 22...	23.5	230	57	174	450	8.2	7	3.8	6.9	81	620
JULY 28...	26.0	220	58	162	491	8.1	10	2.6	8.2	94	660
AUG. 27...	21.0	240	55	185	502	8.0	5	4.2	8.1	92	15170
SEPT. 23...	19.5	250	47	203	540	8.4	20	1.6	8.6	89	2750

PESTICIDE ANALYSIS

Water sample taken on Sept. 23, 1971, was analyzed and none of the following pesticides were found: Aldrin, Chlordane, DDD, DDE, DDT, Dieldrin, Endrin, Heptachlor, Heptachlor Epoxide, Lindane, 2, 4-D, Silvex, 2, 4, 5-T, Malathion, Parathion, Methyl Parathion, and Diazinon. Polychlorinated biphenyl compounds were not detected above lower limits of about 0.5 micrograms per liter.

DDD and DDT were found in the bottom deposit sample at a concentration of 0.3 micrograms per kilogram. Following pesticides were found to be less than the lower limits of detection: Aldrin, Chlordane, DDE, Dieldrin, Endrin, Heptachlor, Heptachlor Epoxide, Lindane, Parathion, Methyl Parathion, and Malathion.

RADIOISOTOPES IN WATER

Units of measurement: Uranium, micrograms per liter of water; radium, as radium-226, in picocuries per liter of water; gross beta radiation as strontium-90-yttrium-90, in picocuries per liter of water; gross alpha radiation, as micrograms of uranium equivalent per liter of water. A picocurie is one millionth of the amount of radioactivity represented by a microcurie, which is the quantity of radiation represented by one millionth of a gram of radium-226. A picocurie of radium results in 2.22 disintegrations per minute.

Determination

Date of Collection	Dissolved				Dissolved Solids mg/l	Suspended		Suspended Solids mg/l
	Uranium (µg/l)	Radium (pCi/l)	Gross Beta (pCi/l as Sr-90/Y-90)	Gross Alpha (µg/l as U nat)		Gross Beta (pCi/l as Sr-90/Y-90)	Gross Alpha (µg/l as U nat)	
Sept. 23, 1971	0.64	0.05	7.3	<3.5	320	0.5	0.6	13

WABASH RIVER BASIN

03322500 WABASH RIVER NEAR NEW CORYDON, IND.

LOCATION.--Lat 40°33'50", long 84°48'10", in NE¼SE¼ sec.3, T.24 N., R.15 E., Jay County, at gaging station on left bank, 10 ft downstream from county bridge on Indiana-Ohio State line road, 2 miles east of New Corydon, 2.8 miles downstream from Beaver Creek, and at mile 465.6.

DRAINAGE AREA.--262 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

REMARKS.--Occasional regulation by Grand Lake Reservoir, diversion from or into St. Marys River, and into Miami and Erie Canal.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS- CHARGE (CFS)	DIS- SOLVED MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	NITRATE (N) (MG/L)
OCT. 21...	1200	4.7	13	120	48	280	110	--
NOV. 18...	1250	12	3	130	56	330	120	--
DEC. 22...	1400	14	65	120	41	240	90	8.2
JAN. 20...	1150	12	90	140	52	290	88	--
FEB. 17...	0900	60	300	48	18	86	45	--
MAR. 24...	0945	211	70	65	23	97	28	4.2
APR. 21...	0945	28	42	100	43	210	46	--
MAY 20...	1000	87	200	95	35	160	38	--
JUNE 17...	1200	46	0	73	31	130	38	1.7
JULY 21...	1200	28	29	120	47	250	76	--
AUG. 18...	0845	12	55	120	61	300	96	--
SEP. 15...	0920	9.9	140	120	40	230	68	1.2

03322500 WABASH RIVER NEAR NEW CORYDON, IND.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	NITRITE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOL- VED- PHOS- PHORUS (P) (MG/L)	HARD- NESS (CA, MG) (MG/L)	ALKA- LINITAS CACO3 (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)
OCT. 21...	--	--	--	--	--	500	223	1250	7.5
NOV. 18...	--	--	--	--	--	560	243	1450	6.7
DEC. 22...	.100	.66	.01	.590	.420	460	201	1200	--
JAN. 20...	--	--	--	--	--	560	244	1270	8.2
FEB. 17...	--	--	--	--	--	200	98	590	8.3
MAR. 24...	.060	.21	2.3	.380	.380	260	136	590	8.3
APR. 21...	--	--	--	--	--	440	215	900	9.9
MAY 20...	--	--	--	--	--	380	202	840	8.2
JUNE 17...	.140	.38	2.4	.580	.320	310	159	700	7.7
JULY 21...	--	--	--	--	--	490	256	1190	7.5
AUG. 18...	--	--	--	--	--	560	266	1350	7.7
SEP. 15...	.160	.00	.17	.440	.410	450	251	1060	7.8

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TUR- BID- ITY (JTU)	TEMP- ERATURE (DEG C)	AIR TEMP- ERATURE (DEG C)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMM- DIATE COLI- FORM (COL. PER 100 ML)	FECAI COLI- FORM (COL. PER 100 ML)
OCT. 21...	30	10.5	17.0	5.8	5.6	50	460	130
NOV. 18...	4	5.5	8.0	1.9	9.6	76	430	110
DEC. 22...	4	.5	4.0	--	9.8	68	24000	26000
JAN. 20...	6	.0	-3.0	4.2	9.5	65	210	50
FEB. 17...	55	.0	5.0	9.3	6.4	44	1060	400
MAR. 24...	30	3.0	2.5	6.4	10.8	80	1650	520
APR. 21...	15	15.0	12.5	9.8	--	--	500	100
MAY 20...	50	18.0	19.0	4.6	5.9	62	12000	2000
JUNE 17...	40	23.0	24.0	6.6	5.0	52	2500	1500
JULY 21...	30	21.5	26.0	7.0	7.3	82	73000	2400
AUG. 18...	25	21.0	24.0	8.8	8.2	91	3600	129
SEP. 15...	25	19.0	21.0	6.0	6.8	76	1650	500

WABASH RIVER BASIN

03323500 WABASH RIVER AT HUNTINGTON, IND.

LOCATION.--Lat 40°51'20", long 85°29'53", in SW¼NE¼ sec.27, T.28 N., R.9 E., Huntington County, temperatures recorder at gaging station on right bank at the Huntington Water and Light Company plant, 2 miles south of courthouse in Huntington, 3.2 miles upstream from Little River, and at mile 409.

DRAINAGE AREA.--721 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1963 to September 1971.

EXTREMES.--1970-71:

Water temperatures: Maximum, 23.0 °C July 3; minimum, freezing point Feb. 2-10, 14, 15.

Period of record:

Water temperatures: Maximum, 32.0 °C July 27, 1964; minimum, freezing point on many days during winter period.

REMARKS.--Temperatures affected by upstream reservoir.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	15.5	13.5	10.5	7.5	3.5	2.5	0.5	0.5	0.5	0.5	2.0	1.5
2	16.0	14.0	9.5	3.5	4.0	3.5	1.0	0.5	0.5	0.0	3.0	2.0
3	15.5	14.0	9.5	8.0	4.5	3.5	1.0	1.0	0.0	0.0	3.0	3.0
4	14.5	13.0	8.5	8.5	5.0	4.5	1.0	1.0	0.0	0.0	3.5	2.5
5	14.0	13.0	8.5	7.5	4.5	3.5	1.0	1.0	0.0	0.0	4.0	3.0
6	14.5	13.5	8.0	6.5	3.5	3.5	1.0	1.0	0.0	0.0	4.0	3.0
7	14.5	13.5	8.0	7.5	3.5	3.5	1.5	1.0	0.0	0.0	3.0	2.0
8	14.5	14.0	7.5	7.0	3.5	3.0	1.5	1.0	0.0	0.0	2.0	1.5
9	14.5	14.0	7.5	7.0	3.5	3.5	1.5	1.0	1.0	0.0	2.0	1.5
10	14.0	13.0	7.5	7.5	3.5	3.5	1.0	1.0	1.0	0.0	3.0	2.0
11	13.5	11.5	7.5	7.5	3.5	3.5	1.0	1.0	1.5	1.0	4.0	2.5
12	13.0	12.0	8.0	7.5	3.5	3.0	1.0	1.0	1.0	1.0	3.5	3.0
13	13.0	12.0	8.5	8.0	3.0	2.5	1.0	1.0	1.0	0.5	3.5	3.0
14	13.0	12.0	8.0	5.5	2.5	2.0	1.0	1.0	0.5	0.0	5.0	3.5
15	13.0	11.5	5.5	5.0	2.5	2.0	1.0	0.5	0.5	0.0	6.0	5.0
16	12.0	11.0	5.0	4.5	2.5	2.0	0.5	0.5	0.5	0.5	6.0	5.0
17	12.0	10.5	4.5	4.5	2.0	2.0	0.5	0.5	1.0	0.5	5.0	4.0
18	12.0	11.0	5.0	4.5	2.0	2.0	0.5	0.5	1.5	1.0	4.0	4.0
19	12.0	10.5	5.0	5.0	2.0	2.0	0.5	0.5	1.5	1.5	4.0	3.5
20	12.0	11.5	5.0	4.5	2.0	2.0	0.5	0.5	1.5	1.5	3.5	2.5
21	11.5	11.5	4.5	4.0	2.0	1.5	0.5	0.5	1.5	1.0	3.0	2.5
22	11.5	11.0	4.5	2.5	1.5	0.5	0.5	0.5	1.0	1.0	4.0	3.0
23	12.5	11.0	2.5	1.0	0.5	0.5	0.5	0.5	1.0	1.0	3.5	3.0
24	12.0	11.5	1.5	1.0	0.5	0.5	0.5	0.5	1.0	1.0	3.5	3.0
25	12.5	11.5	1.5	1.0	0.5	0.5	1.0	0.5	1.0	1.0	3.5	3.0
26	13.0	11.5	1.0	1.0	0.5	0.5	1.0	0.5	1.0	1.0	6.0	3.0
27	13.5	12.0	2.0	1.0	0.5	0.5	0.5	0.5	1.0	1.0	4.5	4.0
28	13.5	12.5	2.0	2.0	0.5	0.5	0.5	0.5	1.5	1.0	5.5	4.0
29	12.5	11.0	3.0	2.0	0.5	0.5	0.5	0.5	---	---	5.0	5.0
30	11.5	10.0	3.0	2.5	0.5	0.5	0.5	0.5	---	---	6.0	5.0
31	11.5	10.5	---	---	0.5	0.5	0.5	0.5	---	---	6.5	5.0
MONTH	16.0	10.0	10.5	1.0	5.0	0.5	1.5	0.5	1.5	0.0	6.5	1.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

WABASH RIVER BASIN

03328500 EEL RIVER NEAR LOGANSPOUT, IND.

LOCATION.--Lat 40°46'55", long 86°15'50", in NE¼SE¼ sec.14, T.27 N., R.2 E., Cass County, at gaging station on right bank at downstream side of bridge on Adamsboro Road, 5.5 miles northeast of Logansport, and 6.9 miles from mouth.

DRAINAGE AREA.--789 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1969 to September 1971.
Sediment records: August 1969 to September 1971.

EXTREMES. --1970-71:

Water temperatures: Maximum, 30.0 °C June 29; minimum, freezing point on many days during December to February.

Sediment concentration: Maximum daily, 1,780 mg/l June 7; minimum daily, 17 mg/l Aug. 31, Sept. 1, 2.

Sediment loads: Maximum daily, 20,500 tons June 7; minimum daily, 6.9 tons Aug. 31, Sept. 1.

Period of record:

Water temperatures: Maximum, 30.0 °C June 29, 1971; minimum, freezing point on many days during winter periods.

Sediment concentrations: Maximum daily, 1,780 mg/l June 7, 1971; minimum daily, 15 mg/l Mar. 13, 25, 1970.

Sediment loads: Maximum daily, 20,500 tons June 7, 1971; minimum daily, 6.9 tons Aug. 31, Sept. 1, 1971.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971
(ONCE DAILY READINGS)

[illegible]

03328500 EEL RIVER NEAR LOGANSPOET, IND.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	300	60	49	220	45	27	1340	110	398
2	295	60	48	220	45	27	1110	53	159
3	289	61	48	220	45	27	948	38	97
4	371	74	74	900	72	156	782	35	74
5	716	100	193	4000	383	4140	662	32	57
6	1000	108	292	4430	195	2320	644	27	47
7	900	92	219	3400	143	1310	903	48	117
8	770	87	181	2470	115	767	1020	78	215
9	660	84	150	1710	90	416	722	66	129
10	570	81	125	1170	68	215	608	51	84
11	500	79	107	933	47	118	602	30	49
12	450	77	94	740	37	74	740	37	84
13	400	75	81	630	30	51	1770	168	803
14	365	73	72	580	27	47	1800	186	904
15	335	71	64	540	26	38	2100	667	4140
16	315	69	59	520	25	35	2750	540	4010
17	290	67	52	917	53	186	1960	238	1260
18	275	65	48	2950	221	1700	1390	115	432
19	265	63	45	4000	356	3840	1250	59	199
20	255	61	42	4750	536	6870	1430	51	197
21	250	59	40	3590	378	3660	1320	48	171
22	245	56	37	3090	280	2340	1130	40	122
23	240	53	34	3350	242	2190	1020	29	80
24	235	50	32	2040	98	540	888	24	58
25	230	49	30	1780	93	309	768	22	46
26	230	48	30	1730	107	500	680	21	39
27	225	47	29	2380	204	1310	626	20	34
28	225	46	28	1940	171	896	596	20	32
29	220	45	27	--	--	--	566	20	31
30	220	45	27	--	--	--	542	20	29
31	220	45	27	--	--	--	512	20	28
TOTAL	11861	--	2394	54470	--	34104	33379	--	14125
DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	347	92	86	614	98	162	2120	185	1060
2	297	91	73	542	95	139	1420	102	391
3	266	90	65	919	117	290	1090	102	300
4	245	88	58	1150	156	484	961	100	260
5	229	87	54	888	127	304	903	95	232
6	217	86	50	704	113	215	754	93	189
7	210	84	48	602	105	171	644	91	158
8	212	83	48	530	99	142	584	88	139
9	229	87	51	476	97	125	548	87	129
10	366	86	85	476	98	126	518	87	122
11	810	111	243	608	116	190	506	89	122
12	692	78	146	668	133	240	536	94	136
13	548	44	65	596	124	200	578	96	150
14	638	55	100	524	112	158	590	93	148
15	1640	227	1010	476	103	132	560	91	138
16	1270	159	545	446	96	116	518	87	122
17	859	107	248	424	92	105	500	83	112
18	650	91	160	408	91	100	476	80	103
19	536	86	124	397	91	98	488	82	108
20	470	84	107	596	106	171	638	93	160
21	435	83	97	1630	225	990	728	104	204
22	418	82	93	1300	192	674	608	92	151
23	397	81	87	925	123	307	548	84	124
24	371	80	80	692	100	187	510	78	107
25	347	80	75	596	96	154	470	75	95
26	324	80	70	518	95	133	446	73	88
27	311	80	67	482	95	124	418	70	79
28	311	80	67	775	119	249	390	68	70
29	446	92	111	2000	198	1070	355	65	62
30	852	121	278	2840	305	2340	335	63	57
31	768	110	228	--	--	--	315	60	51
TOTAL	15711	--	4619	23801	--	9896	20047	--	5367

03328500 EEL RIVER NEAR LOGANSPOET, IND.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	APRIL			MAY			JUNE		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	518	30	42	259	23	16	396	57	74
2	644	41	71	259	27	19	3750	1250	12400
3	710	32	51	297	50	38	3120	633	5790
4	620	30	50	315	59	50	1500	234	948
5	526	28	41	311	56	47	1050	140	397
6	494	27	36	512	88	132	910	115	252
7	464	27	34	1530	157	690	3900	1780	20500
8	446	27	33	1550	130	582	3370	1050	10500
9	418	27	30	1190	68	217	1370	390	1440
10	327	26	28	898	38	91	255	224	578
11	376	25	25	973	38	90	761	157	323
12	362	23	22	754	37	75	698	127	249
13	366	24	24	644	38	66	602	110	179
14	321	44	46	547	38	56	520	101	142
15	412	47	51	470	38	48	489	94	124
16	386	45	47	514	37	42	397	90	96
17	371	43	43	386	36	38	354	85	81
18	362	40	39	357	35	34	324	91	71
19	337	38	35	333	33	30	319	78	67
20	324	35	31	311	32	27	315	76	65
21	312	34	29	289	32	25	292	75	61
22	315	34	29	274	32	24	273	73	54
23	319	33	28	263	31	22	256	71	49
24	306	33	27	297	45	36	243	69	45
25	293	32	25	1050	260	789	236	67	43
26	282	30	23	1390	200	751	235	64	41
27	274	28	21	970	105	275	230	62	39
28	274	28	21	686	51	94	225	58	35
29	274	27	20	524	32	47	216	55	32
30	270	25	18	440	32	38	210	54	31
31	--	--	--	386	31	32	--	--	--
TOTAL	11950	--	1030	18743	--	4521	27013	--	54696
DAY	JULY			AUGUST			SEPTEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	318	95	82	170	19	8.7	150	17	6.9
2	298	73	59	167	19	8.6	153	17	7.0
3	252	53	36	155	19	8.5	479	128	238
4	220	50	30	164	18	8.0	615	140	232
5	212	49	27	163	18	7.9	457	86	106
6	213	45	26	164	20	8.9	566	133	290
7	216	42	25	172	23	11	1050	223	637
8	212	40	23	165	20	8.9	948	126	323
9	209	37	21	161	18	7.8	553	72	108
10	229	38	23	162	22	9.6	359	56	54
11	292	50	39	181	25	12	273	48	35
12	351	62	59	199	25	13	231	42	26
13	377	48	49	176	21	10	209	38	21
14	266	32	23	220	36	26	197	34	18
15	221	28	17	190	30	15	187	30	15
16	202	27	15	170	25	11	179	29	14
17	195	27	14	162	23	10	175	28	13
18	190	27	14	158	22	9.4	172	26	12
19	196	26	13	156	22	9.3	170	25	11
20	184	26	13	170	22	10	192	30	16
21	185	25	12	172	22	10	210	30	17
22	180	22	11	165	21	9.4	222	34	20
23	174	21	9.9	162	20	8.7	206	31	17
24	179	20	9.7	160	23	9.9	190	28	14
25	193	23	11	175	30	14	187	28	14
26	183	23	11	164	26	12	812	222	635
27	176	21	10	159	21	9.0	1420	272	1040
28	181	21	10	156	19	8.0	774	150	313
29	187	20	10	154	18	7.5	488	75	99
30	183	20	9.9	152	18	7.4	352	38	36
31	175	20	9.5	150	17	6.9	--	--	--
TOTAL	6829	--	722.0	5194	--	316.4	12176	--	4382.9

TOTAL DISCHARGE FOR YEAR (CFS-DAYS)

TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)

241074

136163.3

03328500 EEL RIVER NEAR LOGANSPOET, IND. --Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	TIME	DIS- CHARGE (CFS)	SUS- PEN- CEDED SEDI- MENT (MG/L)	SUS- PEN- CEDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM
MAY 25...	1100	3530	1360	13000	55	71	86	94	99	100

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- CEDED SEDI- MENT (MG/L)	SUS- PEN- CEDED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM
MAR. 15...	1300	--	2400	908	5880	52	67
MAY 07...	1300	12.5	1610	160	696	49	60
JUNE 02...	1430	22.0	4120	1640	18200	55	73
07...	1400	25.0	4380	2130	25200	54	73

DATE	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
MAR. 15...	78	89	57	98	99	100	--
MAY 07...	69	84	55	97	99	100	--
JUNE 02...	84	93	57	98	99	100	--
07...	86	93	57	97	98	99	100

LOCATION.--Lat 40°26'26", long 86°49'46", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.14, T.23 N., R.4 W., Tippecanoe County, digital monitor in gaging station on downstream side of bridge on County Road 2A East, 2.5 miles upstream from mouth, 3 miles downstream from South Fork Wildcat Creek, and 3.7 miles northeast of Courthouse in Lafayette.

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1971.
Water temperatures: December 1970 to September 1971.
Sediment records: July 1968 to September 1971 (partial-record station).

Specific conductance: Maximum, 901 micromhos Mar. 21, 23; minimum, 216 micromhos June 12.
Water temperatures: Maximum, 27.0 °C June 4-8, 19, 20, 24, 27-30, July 1-4, 6, 7, 13-17, 22, Aug. 7, 8; minimum, freezing point in February.

Specific conductance: Maximum, 901 micromhos Mar. 21, 23, 1971; minimum, 216 micromhos June 12, 1971.
Water temperatures: Maximum, 27.0 °C June 4-8, 19, 20, 24, 27-30, July 1-4, 6, 7, 13-17, 22, Aug. 7, 8; minimum, freezing point on many days most winter periods.

[illegible]

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

	OCTOBER	NOVEMBER	DECEMBER	JANUARY	FEBRUARY	MARCH
DAY	MAX	MIN	MAX	MIN	MAX	MIN
1	--	--	--	10.5	--	--
2	--	--	--	9.5	--	--
3	--	--	--	8.5	--	--
4	--	--	--	--	--	--
5	--	--	--	5.5	--	--
6	--	--	--	7.0	--	--
7	--	--	--	--	--	--
8	--	--	--	1.5	--	--
9	--	--	--	4.0	--	3.5
10	--	--	--	2.5	4.0	3.5
11	--	--	6.0	5.0	0.5	0.0
12	--	--	--	--	0.5	0.0
13	--	--	--	--	--	0.0
14	--	--	--	--	9.0	8.5
15	--	--	--	--	1.5	0.0
16	--	--	--	--	2.0	0.0
17	--	--	--	--	4.0	0.0
18	--	--	--	--	0.5	0.0
19	--	--	--	--	0.5	0.0
20	--	--	--	--	0.5	0.0
21	--	--	--	--	--	6.0
22	--	--	--	--	--	7.0
23	--	--	--	--	--	6.5
24	--	--	--	--	--	5.5
25	--	--	--	--	--	5.0
26	--	--	--	--	--	5.0
27	--	--	--	--	--	7.5
28	--	--	--	--	--	8.0
29	--	--	--	--	--	10.0
30	--	--	--	--	--	9.5
31	--	--	--	--	--	10.5
MONTH	--	--	--	--	--	13.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

WABASH RIVER BASIN

03335500 WABASH RIVER AT LAFAYETTE, IND.

LOCATION.--Lat 40°25'19", long 86°53'49", in NE¼SW¼ sec.20, T.23 N., R.4 W., Tippecanoe County, temperature recorder at gaging station on right bank 20 ft downstream from Brown Street Bridge in Lafayette, 5.1 miles downstream from Wildcat Creek, and at mile 311.9.

DRAINAGE AREA.--7,267 sq mi.

PERIOD OF RECORD.--Water temperatures: July 1954 to September 1964, August 1967 to September 1971.
Sediment record: Feb. 1965 to June 1968 (partial record).

EXTREMES.--1970-71:

Water temperatures: Maximum, 31.0 °C June 27, 28; minimum, freezing point in January

Period of record:

Water temperatures: Maximum, 32.0 °C July 30, 31, 1954; minimum, freezing point on many days during most winter periods.

REMARKS.--Regulation by reservoirs and powerplants above station.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	---	---	---	---	0.0	0.0	2.5	2.0
2	---	---	---	---	---	---	---	---	0.0	0.0	2.5	2.0
3	---	---	---	---	---	---	---	---	0.0	0.0	2.0	2.0
4	---	---	---	---	---	---	---	---	0.0	0.0	2.0	2.0
5	---	---	---	---	---	---	---	---	1.5	0.0	3.0	2.0
6	---	---	---	---	---	---	---	---	2.5	1.5	3.5	3.0
7	---	---	---	---	---	---	---	---	2.5	2.0	3.0	2.5
8	---	---	---	---	---	---	---	---	2.5	2.5	2.5	2.0
9	---	---	---	---	---	---	---	---	2.5	2.0	2.0	1.5
10	---	---	---	---	---	---	---	---	2.0	1.5	1.5	1.0
11	---	---	---	---	---	---	---	---	1.5	0.0	2.0	1.0
12	---	---	---	---	---	---	---	---	1.0	0.5	3.0	1.0
13	---	---	---	---	---	---	---	---	0.5	0.5	3.5	3.0
14	---	---	---	---	---	---	---	---	1.0	0.5	5.0	3.0
15	---	---	---	---	---	---	---	---	1.5	1.0	5.0	4.0
16	---	---	---	---	---	---	---	---	2.5	1.5	4.0	4.0
17	---	---	---	---	---	---	---	---	2.0	1.0	4.5	4.0
18	---	---	---	---	---	---	---	---	2.0	1.0	5.0	4.5
19	---	---	---	---	---	---	---	---	2.0	2.0	5.0	4.5
20	---	---	---	---	---	---	---	---	2.5	2.0	5.5	4.5
21	---	---	---	---	---	---	---	---	2.0	2.0	6.5	5.5
22	---	---	---	---	---	---	---	---	2.5	2.0	6.5	6.0
23	---	---	---	---	---	---	---	---	2.5	2.0	6.0	5.0
24	---	---	---	---	---	---	---	---	3.5	2.5	5.0	4.5
25	---	---	---	---	---	---	---	---	3.5	2.5	5.0	4.5
26	---	---	---	---	---	---	---	---	3.0	2.5	5.5	4.5
27	---	---	---	---	---	---	0.0	0.0	3.0	2.5	5.5	4.5
28	---	---	---	---	---	---	0.0	0.0	2.5	2.0	5.5	5.0
29	---	---	---	---	---	---	0.0	0.0	---	---	5.5	5.0
30	---	---	---	---	---	---	0.0	0.0	---	---	5.5	4.5
31	---	---	---	---	---	---	0.0	0.0	---	---	8.0	5.0
MONTH	---	---	---	---	---	---	---	---	3.5	0.0	8.0	1.0

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

03335700 BIG PINE CREEK NEAR WILLIAMSPORT, IND.

LOCATION.--Lat 40°19'03", long 87°17'26", in SW¼SE¼ sec.26, T.22 N., R.8 W., Warren County, at gaging station on downstream side of county road bridge, 1.6 miles north of city limits of Williamsport, and 2.5 miles upstream from mouth.

DRAINAGE AREA.--323 sq mi.

PERIOD OF RECORD.--Chemical analysis: July 1970 to September 1971.

Water temperatures: November 1970 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum observed, 721 micromhos Jan. 11; minimum, 484 micromhos Sept. 26.

Water temperatures: Maximum, 27.0 °C Aug. 20, 22, Sept. 3, 5, 8, 9; minimum, freezing point on many days during December to February.

Period of record:

Specific conductance: Maximum observed, 721 micromhos Jan. 11, 1971; minimum observed, 335 micromhos Aug. 20, 1970.

Water temperatures: Maximum, 27.0 °C Aug. 20, 22, Sept. 3, 5, 8, 9, 1971; minimum, freezing point on many days during winter period.

Maximum observed temperature since 1955, 28.5 °C July 12, 1966.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	TOTAL IRON (FE) (UG/L)	IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM AN- ION- SORP- TION RATIO
OCT. 22...	1020	173	14	140	20	49	13	93	34	7.8	.2
DEC. 09...	1545	163	8.0	120	40	92	92	92	36	6.3	.1
JAN. 11...	1600	123	9.0	340	70	77	68	100	33	8.1	.2
FEB. 23...	--	1060	8.5	570	60	180	86	38	11	2.8	.1
23...	1100	1070	8.5	570	60	180	86	38	11	2.8	.1
MAR. 23...	--	415	8.9	210	20	57	38	84	37	6.3	.1
23...	1130	413	8.9	210	20	57	38	84	37	6.3	.1
APR. 27...	1450	75	1.0	120	90	62	59	70	35	8.3	.2
JUNE 03...	1130	149	9.4	120	20	75	71	73	27	7.0	.2
JULY 20...	1200	121	9.6	190	130	21	21	88	28	7.2	.2
AUG. 16...	1320	22	5.3	80	0	90	50	69	34	9.7	.2
SEP. 29...	1000	23	7.3	190	190	80	60	70	32	19	.5

03335700 BIG PINE CREEK NEAR WILLIAMSPORT, IND.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	PERCENT SODIUM	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTI- TUENTS) (MG/L)
OCT. 22...	4	.9	316	0	70	18	.2	29	443	420
DEC. 09...	3	.9	304	0	74	20	.4	36	435	423
JAN. 11...	4	1.4	340	0	75	16	.2	29	449	439
FEB. 23...	4	4.3	82	0	39	13	.2	38	211	195
23...	4	4.3	82	0	39	13	.2	38	211	195
MAR. 23...	4	1.1	282	0	68	21	.2	43	431	409
23...	4	1.1	282	0	68	21	.2	43	431	409
APR. 27...	5	1.4	270	0	75	18	.2	18	352	360
JUNE 03...	5	2.2	238	0	58	18	.4	41	342	353
JULY 20...	4	1.8	304	0	63	18	.2	31	438	396
AUG. 16...	6	2.5	286	0	80	13	.4	1.4	356	356
SEP. 29...	12	3.0	278	0	74	30	.3	.2	375	373

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA, MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	ALKA- LITY AS CACO3 (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TEMP- ERATURE (DEG C)	AIR TEMP- ERATURE (DEG C)
OCT. 22...	207	.60	370	110	259	680	8.1	5	10.5	7.5
DEC. 09...	191	.59	380	130	249	690	8.7	5	6.5	12.0
JAN. 11...	149	.61	380	110	279	721	8.0	5	.0	1.0
FEB. 23...	604	.29	140	73	67	317	7.1	60	1.0	--
23...	610	.29	140	73	67	317	7.7	60	1.0	-1.0
MAR. 23...	483	.59	360	130	231	667	7.9	10	2.0	--
23...	481	.59	360	130	231	667	7.2	10	2.0	-3.0
APR. 27...	71.3	.48	320	98	221	607	8.1	5	14.0	15.0
JUNE 03...	154	.52	290	94	195	578	7.8	7	22.0	30.0
JULY 20...	143	.60	330	80	249	630	8.2	20	20.5	24.0
AUG. 16...	21.1	.48	310	75	235	596	8.0	7	23.0	28.0
SEP. 29...	23.3	.51	310	82	228	625	7.6	5	22.0	28.0

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

[illegible]

03335700 BIG PINE CREEK NEAR WILLIAMSPORT, IND.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	13.5	9.5	0.5	0.0	---	---	10.5	6.0
2	---	---	---	---	12.5	9.0	1.0	0.0	---	---	9.5	---
3	---	---	---	---	13.0	9.0	1.0	0.0	---	---	7.5	2.5
4	---	---	---	---	12.0	7.0	1.0	0.0	---	---	8.0	2.0
5	---	---	---	---	8.0	---	0.5	0.0	---	---	8.5	0.0
6	---	---	---	---	4.0	---	0.5	0.0	---	---	9.0	2.0
7	---	---	---	---	2.0	1.0	0.5	0.0	---	---	7.5	3.0
8	---	---	---	---	4.5	1.0	0.5	0.0	---	---	7.5	2.0
9	---	---	---	---	6.5	4.0	0.5	0.0	---	---	5.5	1.0
10	---	---	---	---	5.5	4.0	0.5	0.0	---	---	8.0	1.0
11	---	---	---	---	7.0	5.5	0.5	0.0	---	---	7.0	4.0
12	---	---	---	---	6.5	5.5	0.5	0.0	---	---	11.0	2.0
13	---	---	---	---	5.5	2.5	0.5	0.0	---	---	10.5	4.0
14	---	---	---	---	4.0	---	0.5	0.0	---	---	13.0	7.5
15	---	---	---	---	3.0	1.0	0.5	0.0	---	---	13.5	6.0
16	---	---	---	---	4.0	2.0	0.5	0.0	---	---	10.0	2.0
17	---	---	---	---	4.5	2.5	0.5	0.0	---	---	9.5	2.0
18	---	---	---	---	6.0	3.5	0.5	0.0	---	---	9.5	5.0
19	---	---	---	---	4.5	4.0	0.5	0.0	---	---	9.5	3.5
20	---	---	---	---	3.5	1.5	---	---	---	---	9.5	0.0
21	---	---	---	---	2.0	1.0	---	---	---	---	11.5	5.5
22	---	---	---	---	4.0	1.5	---	---	---	---	11.0	4.0
23	---	---	---	---	4.0	---	---	---	---	---	7.5	---
24	---	---	---	---	1.5	0.0	---	---	8.5	---	---	---
25	---	---	---	---	0.5	0.0	---	---	9.0	0.0	---	---
26	---	---	---	---	0.5	0.0	---	---	11.0	4.5	---	---
27	---	---	6.5	5.5	0.5	0.0	---	---	10.5	2.0	---	---
28	---	---	7.0	5.5	0.5	0.0	---	---	9.5	2.5	---	---
29	---	---	9.5	6.0	0.5	0.0	---	---	---	---	---	---
30	---	---	11.0	8.0	0.5	0.0	---	---	---	---	---	---
31	---	---	---	---	1.0	0.0	---	---	---	---	---	---
MONTH	---	---	---	---	13.5	0.0	---	---	---	---	---	---

WABASH RIVER BASIN

03335700 BIG PINE CREEK NEAR WILLIAMSPORT, IND.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

LOCATION.--Lat 39°48'45", long 86°57'14", in NW¼SW¼ sec.22, T.16 N., R.5 W., Putnam County, at gaging station on left bank at downstream side of county road bridge, 1.6 miles upstream from Ramp Creek, and 3.1 miles west of Fincastle.

PERIOD OF RECORD.--Water temperatures: July 1965 to September 1971.
Sediment records: August 1959 to September 1971.

Sediment concentrations: Maximum daily, 24,100 mg/l July 19; minimum daily, 19 mg/l April 12.
Sediment loads: Maximum daily, 91,600 tons June 12; minimum daily, 0.31 tons Oct. 7.

Sediment concentrations: Maximum daily, 27,900 mg/l Jan. 29, 1970; minimum daily, 1 mg/l Apr. 13-15, 1970.
Sediment loads: Maximum daily, 295,000 tons Dec. 22, 1967; minimum daily, 0.03 ton Sept. 15, 1964.

[illegible]

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

03340800 BIG RACCOON CREEK NEAR FINCASTLE, IND.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	8.7	24	.56	26	31	2.2	27	60	4.4
2	7.8	22	.46	24	25	1.6	27	55	4.0
3	7.0	22	.42	42	27	3.1	26	40	3.4
4	6.5	21	.37	70	33	6.2	23	44	2.7
5	6.0	21	.34	57	26	4.0	23	39	2.4
6	6.0	21	.34	45	23	2.9	21	33	1.7
7	5.5	21	.31	36	21	2.0	19	23	1.4
8	6.3	23	.30	27	21	1.6	18	29	1.4
9	6.7	30	.90	25	21	1.4	18	29	1.4
10	14	33	1.4	25	21	1.4	18	29	1.4
11	14	34	1.4	27	27	2.0	19	35	1.3
12	15	26	1.5	32	49	4.2	20	42	2.0
13	14	25	1.3	29	43	3.4	22	49	2.9
14	14	33	1.2	26	42	2.7	21	43	2.4
15	15	33	1.3	23	42	2.6	19	37	1.7
16	21	44	2.5	22	42	2.5	20	32	1.7
17	18	40	1.9	20	42	2.3	25	30	2.0
18	15	29	1.5	20	41	2.2	36	30	2.9
19	12	17	1.3	19	41	2.1	27	20	3.0
20	14	52	2.0	37	25	1.0	33	30	2.7
21	14	56	2.1	122	249	82	30	30	2.4
22	13	57	1.9	98	174	41	41	37	4.1
23	13	51	1.8	62	133	22	70	76	14
24	12	47	1.6	45	116	14	66	101	18
25	12	47	1.5	45	127	13	55	97	14
26	11	45	1.3	37	99	9.8	49	94	12
27	11	43	1.3	37	70	9.0	40	70	9.7
28	12	41	1.3	33	92	7.3	35	88	8.3
29	16	47	1.7	29	73	5.7	30	97	7.0
30	39	47	4.4	26	66	4.6	28	85	6.4
31	37	33	3.8	--	--	--	26	93	5.8
TOTAL	470.7	--	44.01	1153	--	268.9	341	--	149.7
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	25	81	5.5	12	25	.91	198	135	72
2	24	79	5.1	11	25	.74	161	108	47
3	25	77	5.2	12	25	.81	130	95	33
4	92	262	66	600	921	3370	100	89	24
5	100	263	71	1610	1450	6570	90	87	21
6	80	170	37	210	700	377	133	407	196
7	50	133	18	120	333	108	151	1290	1310
8	42	116	13	82	166	17	216	193	113
9	39	107	11	57	105	14	155	98	41
10	37	93	9.8	39	79	9.1	145	93	36
11	35	70	8.5	40	70	7.6	160	90	39
12	30	81	6.5	44	68	9.1	155	89	37
13	27	72	5.2	37	66	6.6	205	96	53
14	29	64	5.0	30	65	5.3	202	94	52
15	26	56	2.9	28	64	4.8	197	1530	1690
16	22	48	2.9	27	63	4.6	333	817	805
17	20	39	2.1	486	1890	5990	231	167	104
18	18	27	1.8	1120	3190	9290	174	143	67
19	16	36	1.6	1270	2200	7540	183	144	71
20	15	35	1.4	1540	2430	11200	200	152	92
21	14	34	1.3	349	400	376	217	142	93
22	14	33	1.2	2090	5000	26500	226	104	63
23	15	33	1.3	540	328	559	167	78	35
24	15	33	1.3	270	217	158	134	69	25
25	15	32	1.3	256	160	111	116	66	21
26	15	31	1.3	409	1660	2220	104	63	18
27	13	30	1.1	557	2890	4190	97	60	16
28	12	28	.91	299	450	351	93	57	14
29	12	27	.95	--	--	--	86	54	13
30	13	27	.95	--	--	--	75	51	10
31	12	26	.94	--	--	--	70	49	9.3
TOTAL	894	--	293.05	12226	--	79258.46	5345	--	5200.3

WABASH RIVER BASIN

03340800 BIG RACCOON CREEK NEAR FINCASTLE, IND.--Continued

SUSPENDED-Sediment Discharge, Water Year October 1970 to September 1971--Continued

APRIL				MAY				JUNE			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	71	50	9.6	23	25	1.6	53	50	7.2		
2	82	47	13	22	25	1.5	108	69	34		
3	75	53	11	21	25	1.4	323	3100	2440		
4	68	48	8.8	21	25	1.4	141	2480	944		
5	62	44	7.4	20	25	1.4	92	1250	311		
6	60	39	6.3	51	2270	333	69	850	158		
7	57	34	5.2	69	2270	475	57	730	112		
8	55	30	4.5	137	2680	991	80	1900	585		
9	52	25	3.5	83	850	190	93	4030	1010		
10	49	23	3.0	59	280	45	57	2960	456		
11	45	21	2.6	51	114	16	69	2190	408		
12	44	19	2.3	73	228	45	2570	11300	91600		
13	45	20	2.4	69	132	25	657	1540	3130		
14	47	45	5.7	55	96	14	480	2590	3640		
15	43	44	5.1	46	89	11	264	1400	1050		
16	40	42	4.5	41	88	9.7	161	164	71		
17	39	38	4.0	68	182	36	114	88	27		
18	37	36	3.6	46	86	11	86	62	14		
19	33	34	3.0	38	59	6.1	82	479	205		
20	31	31	2.6	33	7	4.2	149	4890	1970		
21	30	29	2.3	29	7	3.1	204	4270	2360		
22	29	28	2.2	25	3	2.3	120	327	106		
23	27	27	2.0	23	33	2.0	74	150	30		
24	25	27	1.8	43	69	15	57	97	15		
25	25	26	1.8	549	1500	2370	75	637	247		
26	23	26	1.6	236	122	78	108	1190	394		
27	24	26	1.7	141	90	34	57	182	28		
28	41	25	2.9	97	70	18	43	126	15		
29	32	26	2.2	74	60	12	34	92	8.4		
30	26	25	1.8	61	54	8.9	29	68	5.3		
31	--	--	--	53	51	7.3	--	--	--		
TOTAL	1317	--	128.4	2356	--	4769.9	6506	--	111380.9		
JULY				AUGUST				SEPTEMBER			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	27	58	4.2	34	360	33	13	110	3.9		
2	23	53	3.3	26	230	14	12	106	3.4		
3	21	49	2.8	22	157	9.3	11	104	3.1		
4	19	46	2.4	20	153	8.3	11	103	3.1		
5	20	53	2.9	18	149	7.2	11	102	3.0		
6	20	56	3.0	17	146	6.7	11	101	3.0		
7	19	55	2.8	15	144	5.8	12	102	3.3		
8	17	140	9.9	14	141	5.3	13	107	3.8		
9	150	2200	926	14	137	5.2	11	103	3.1		
10	99	951	475	14	134	5.1	10	99	2.7		
11	418	3790	4300	97	912	302	9.6	95	2.5		
12	168	639	327	73	210	41	9.3	92	2.3		
13	85	137	11	32	145	13	9.0	88	2.1		
14	60	114	18	20	132	7.1	8.7	84	2.0		
15	42	95	11	117	972	413	8.1	80	1.7		
16	37	79	7.9	79	597	137	8.1	77	1.7		
17	29	69	5.3	40	550	16	7.5	75	1.5		
18	23	60	3.7	24	110	7.1	7.3	75	1.5		
19	462	24100	39800	18	100	4.9	7.5	87	1.8		
20	119	2260	869	15	97	3.9	103	4180	1640		
21	56	170	56	14	95	3.6	131	2600	1070		
22	38	148	15	13	95	3.3	54	282	41		
23	29	100	7.8	14	98	3.7	33	230	20		
24	97	2080	623	13	103	3.6	22	210	12		
25	77	1130	251	171	3840	2310	28	236	20		
26	47	465	59	85	1430	392	103	1210	352		
27	37	365	36	35	178	17	116	860	269		
28	53	428	88	22	150	8.9	59	270	43		
29	162	1670	730	17	148	6.8	47	100	13		
30	73	1100	217	15	130	5.3	36	64	6.2		
31	47	635	81	13	120	4.2	--	--	--		
TOTAL	2574	--	48969.0	1121	--	3803.3	922.1	--	3535.7		
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									35780.8		
TOTAL SUSPENDED-SEDIMENT DISCHARGE FOR YEAR (TONS)									257601.62		

03340800 BIG RACCOON CREEK NEAR FINCASTLE, IND.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDE SEDIM- ENT (MG/L)	SUS- PENDE SEDIM- ENT DIS- CHARGE (T/DAY)	SUS. SEC. FALL DIAM. % FINER THAN .002 MM	SUS. SEC. FALL DIAM. % FINER THAN .004 MM
JAN. 07...	1700	--	65	552	98	40	51
FEB. 22...	1612	20.0	2870	1060	8210	47	62
JUNE 03...	1900	18.0	262	3700	2620	24	32
12...	1300	23.0	2820	22600	233000	21	26
JULY 19...	0700	30.0	700	44500	84100	17	22
24...	2000	29.0	133	2470	887	23	28
AUG. 25...	1300	--	262	7020	4970	19	25
SEP. 20...	2100	--	238	7550	4850	19	25

DATE	SUS. SEC. FALL DIAM. % FINER THAN .008 MM	SUS. SEC. FALL DIAM. % FINER THAN .016 MM	SUS. SEC. FALL DIAM. % FINER THAN .031 MM	SUS. SEC. FALL DIAM. % FINER THAN .062 MM	SUS. SEC. FALL DIAM. % FINER THAN .125 MM	SUS. SEC. FALL DIAM. % FINER THAN .250 MM	SUS. SEC. FALL DIAM. % FINER THAN .500 MM
JAN. 07...	65	86	99	100	--	--	--
FEB. 22...	70	79	84	92	95	99	100
JUNE 03...	39	55	83	96	99	100	--
12...	35	54	84	97	99	100	--
JULY 19...	30	48	75	98	99	100	--
24...	36	52	86	99	100	--	--
AUG. 25...	35	57	87	99	100	--	--
SEP. 20...	33	54	81	99	100	--	--

WABASH RIVER BASIN

03341920 WABASH RIVER AT HUTSONVILLE, ILL.

LOCATION.--Lat 39°06'37", long 87°39'18", Crawford County, Illinois, Sullivan County, Indiana, at center of bridge (State Line) on Indiana State Highway 154, 0.2 mile northeast of Hutsonville, 0.3 mile downstream from Sewage Disposal Plant, and 0.5 mile upstream from Hutson Creek.

DRAINAGE AREA.--12,700 sq mi, approximately.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

REMARKS.--Records of discharge are available for Wabash River at Riverton, Ind. (03342000), drainage area, 13,100 sq mi, approximately.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SPECIFIC CONDUCTANCE (MICRO- MHOS)	PH (UNITS)	TEMP- ERATURE (DEG C)	AIR TEMP- ERATURE (DEG C)	BIO- CHEM- ICAL OXYGEN DEMAND (MG/L)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMPE- DIMENT COLI- FORM (COL. PER 100 ML)	FECAL COLI- FORM (COL. PER 100 ML)
NOV. 14...	1100	650	8.0	18.0	16.0	3.2	7.6	79	38000	440
NOV. 12...	1100	660	8.1	12.0	15.5	2.9	9.4	92	35000	3300
DEC. 10...	1000	700	8.0	7.5	6.0	5.5	9.5	80	1000	780
JAN. 14...	1100	800	8.7	1.0	.5	4.4	--	--	19000	3100
MAY 13...	1030	570	8.0	18.0	11.0	9.4	7.3	76	15200	3850
JUNE 09...	1100	560	7.6	26.5	27.0	4.4	5.2	64	2400	1200
JULY 16...	1030	400	7.6	27.0	33.0	3.8	6.4	80	4710	1570
AUG. 11...	0930	550	8.1	27.5	27.0	8.4	8.2	105	35000	460
SEP. 02...	1000	575	8.1	29.0	30.0	7.2	5.7	74	3900	720

03342000 WABASH RIVER AT RIVERTON, IND.

LOCATION.--Lat 39°01'13", long 87°34'07", in NE¼SW¼ sec.30, T.7 N., R.10 W., Sullivan County, temperature recorder at center pier of Illinois Central Railroad Bridge at Riverton, 0.6 mile downstream from Turtle Creek, and at mile 162.0.

DRAINAGE AREA.--13,100 sq mi, approximately.

PERIOD OF RECORD.--Water temperatures: July 1954 to September 1961, October 1962 to September 1965, October 1967 to September 1971.

EXTREMES.--1970-71:

Water temperatures: Maximum, 31.0 °C July 8; minimum, freezing point on several days during December, January, and February.

Period of record:

Water temperatures: Maximum, 33.0 °C July 20 and Aug. 29, 1954; minimum, freezing point on many days during most winter periods.

REMARKS.--Temperatures affected by powerplant upstream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.0	19.0	15.5	14.0	9.5	7.5	1.0	0.0	1.0	0.0	4.0	3.5
2	20.0	19.5	14.0	13.5	9.5	8.5	1.5	1.0	0.5	0.0	4.5	4.0
3	20.0	19.5	13.5	13.0	10.0	9.0	2.5	1.5	2.0	0.5	4.0	3.0
4	19.5	18.0	13.0	12.0	10.0	9.0	3.0	2.5	3.5	2.0	3.0	1.5
5	19.0	18.0	12.0	11.0	9.5	9.0	3.0	2.5	2.0	0.5	3.0	1.5
6	19.0	18.5	11.0	10.0	9.0	7.0	2.5	1.5	0.5	0.0	3.0	3.0
7	20.0	19.0	10.5	9.0	7.0	6.0	1.5	0.5	0.0	0.0	3.5	3.0
8	20.0	20.0	10.5	7.5	6.5	5.5	1.0	0.0	0.0	0.0	3.5	2.5
9	20.5	20.0	11.0	10.5	6.0	5.5	1.0	0.5	0.0	0.0	3.0	2.5
10	20.0	18.0	11.5	11.0	6.5	6.0	2.5	1.0	0.0	0.0	3.5	3.0
11	18.0	17.5	11.5	11.5	7.5	6.5	3.5	2.5	0.0	0.0	3.5	3.0
12	18.0	17.5	12.0	11.5	7.5	7.0	3.5	2.0	0.0	0.0	4.5	3.5
13	18.0	17.5	12.0	12.0	7.0	6.5	2.0	1.5	0.0	0.0	5.5	3.5
14	18.0	17.5	12.0	11.0	6.5	5.0	2.0	1.5	0.0	0.0	7.0	5.5
15	18.0	17.5	11.0	10.0	6.0	5.5	2.0	1.5	0.5	0.0	8.0	7.0
16	17.5	16.0	10.0	9.5	6.0	5.5	1.5	1.5	1.5	0.5	8.0	7.0
17	16.5	14.5	9.5	9.0	6.5	5.5	1.5	1.0	2.5	1.5	7.0	6.0
18	14.5	13.5	9.5	9.0	6.5	5.5	1.0	0.5	3.0	2.0	6.5	6.0
19	14.0	14.0	9.5	9.5	7.5	6.0	1.0	0.5	3.0	2.0	6.5	6.0
20	14.5	14.0	10.0	9.5	7.5	6.5	2.0	1.0	3.0	3.0	6.5	5.5
21	15.0	14.5	9.5	9.0	7.0	7.0	2.0	1.5	3.0	2.5	6.0	5.5
22	15.0	14.0	9.5	8.5	7.5	7.0	3.5	2.0	3.0	2.5	6.0	6.0
23	15.5	14.5	8.5	6.0	8.0	7.5	4.5	3.5	3.0	2.0	6.5	6.0
24	16.0	15.5	6.0	4.0	7.5	6.0	4.0	3.5	2.0	1.5	6.5	5.5
25	16.0	15.5	4.0	3.0	6.0	4.0	4.0	3.5	2.5	1.5	6.0	5.5
26	16.5	10.0	3.0	2.5	4.0	2.0	3.5	1.5	3.5	2.5	6.0	5.5
27	17.5	10.5	4.5	3.0	2.0	1.0	1.5	0.0	3.5	3.0	6.5	5.5
28	17.5	17.0	5.5	4.5	1.0	0.0	0.5	0.0	4.0	3.0	7.0	6.0
29	17.0	10.5	7.0	5.5	0.5	0.0	2.0	0.5	---	---	7.0	6.5
30	16.5	16.0	7.5	7.0	0.0	0.0	3.5	2.0	---	---	7.0	6.0
31	16.0	15.5	---	---	0.0	0.0	2.5	1.0	---	---	8.5	6.5
MONTH	20.5	13.5	15.5	2.5	10.0	0.0	4.5	0.0	4.0	0.0	8.5	1.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

03348500 WHITE RIVER NEAR NOBLESVILLE, IND.

LOCATION.--Lat 40°07'46", long 85°57'46", in NE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.4, T.19 N., R.5 E., Hamilton County; at gaging station on downstream side of pier of highway bridge, 1 mile west of Strawtown, 7 miles northeast of Noblesville, 9.5 miles upstream from Cicero Creek, and at mile 277.4.

DRAINAGE AREA.--828 sq mi.

PERIOD OF RECORD.--Water temperature: October 1953 to July 1957, October 1962 to September 1971.
Sediment records: July 1968 to September 1971 (partial record).

EXTREMES.--1970-71:

Water temperatures: Maximum, 28.0 °C June 28; minimum, freezing point on several days in January and February.

Period of record:

Water temperatures: Maximum, 31.0 °C July 14, 1954; minimum, freezing point on many days during most winter periods.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	17.0	15.5	12.5	11.0	9.5	8.5	1.0	1.0	0.0	0.0	5.0	4.5
2	17.0	15.5	11.5	10.0	9.5	9.0	2.0	1.0	0.0	0.0	4.5	4.5
3	17.0	16.0	10.0	9.5	9.0	8.5	3.5	2.0	0.0	0.0	4.5	4.0
4	16.0	14.5	9.5	9.5	9.0	7.5	4.0	3.5	0.0	0.0	4.0	3.0
5	15.5	14.5	9.5	9.0	7.5	5.5	3.5	1.5	0.0	0.0	3.5	3.0
6	16.5	15.0	9.0	8.5	5.5	3.0	1.5	1.5	0.0	0.0	4.0	3.5
7	17.0	16.5	9.0	9.0	3.0	2.0	1.5	1.5	0.0	0.0	4.0	3.5
8	17.5	17.0	9.0	9.0	2.0	2.0	1.5	1.5	0.0	0.0	3.5	3.0
9	17.0	17.0	9.5	9.0	4.5	2.0	1.5	1.5	0.0	0.0	3.0	2.5
10	17.0	15.5	10.0	9.5	4.5	4.0	1.5	1.0	0.0	0.0	3.5	3.0
11	15.5	14.0	10.0	10.0	6.0	4.5	1.0	0.5	0.0	0.0	3.5	3.5
12	14.5	14.0	10.5	10.0	6.0	5.5	1.0	0.5	0.0	0.0	5.0	3.5
13	15.5	14.5	10.5	10.5	5.5	4.5	1.0	0.5	0.5	0.0	6.0	5.0
14	16.5	15.5	10.5	8.5	4.5	3.5	0.5	0.5	0.5	0.5	6.5	6.0
15	16.5	14.5	8.5	8.0	3.5	3.0	1.0	0.5	0.5	0.5	7.5	6.5
16	14.5	13.0	8.0	6.5	3.5	3.0	1.0	1.0	1.0	0.5	7.0	6.0
17	13.0	11.5	6.5	6.5	4.0	3.5	1.0	1.0	2.0	1.0	6.0	5.0
18	12.0	11.0	7.0	6.5	4.5	4.0	1.0	0.5	3.0	2.0	5.5	5.5
19	12.0	11.0	7.5	6.5	5.5	4.5	1.0	0.5	3.5	3.0	5.5	5.0
20	12.0	12.0	8.5	7.5	5.5	4.5	0.5	0.5	3.0	2.0	5.0	4.5
21	13.0	12.0	8.0	7.0	4.5	3.5	0.5	0.5	2.5	1.5	5.0	4.5
22	13.0	12.5	7.5	6.5	4.5	3.5	0.5	0.5	2.5	1.5	5.0	5.0
23	13.5	13.0	6.5	3.0	4.0	3.0	0.5	0.5	2.5	1.0	5.0	4.5
24	13.5	13.5	3.0	1.5	4.0	3.5	0.5	0.5	2.0	1.0	4.5	4.0
25	14.5	13.5	1.5	1.5	3.5	2.0	0.5	0.0	1.5	1.0	5.0	4.0
26	15.5	14.0	3.0	1.5	2.5	1.5	0.5	0.5	2.5	1.0	6.5	4.5
27	15.5	15.0	5.5	3.0	1.5	1.0	0.5	0.0	4.0	2.5	6.5	6.0
28	15.5	15.5	6.5	5.5	1.5	1.0	0.0	0.0	5.0	3.5	8.0	6.5
29	15.5	14.0	7.5	6.5	1.0	0.5	0.0	0.0	---	---	8.0	7.5
30	14.0	12.5	8.5	7.5	1.0	0.5	0.5	0.0	---	---	8.0	6.5
31	12.5	12.0	---	---	1.0	0.5	0.5	0.0	---	---	9.5	7.0
MONTH	17.5	11.0	12.5	1.5	9.5	0.5	4.0	0.0	5.0	0.0	9.5	2.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

03349000 WHITE RIVER AT NOBLESVILLE, IND.

LOCATION.--Lat 40° 02' 50", long 86° 01' 00", in SE $\frac{1}{4}$ SE $\frac{1}{4}$ sec. 36, T. 19 N., R. 4 E., Hamilton County, at gaging station on right bank at downstream side of Logan Street Bridge in Noblesville, 1.5 miles upstream from Cicero Creek, 3.5 miles downstream from dam at Clare, and at mile 269.0.

DRAINAGE AREA.--858 sq mi.

PERIOD OF RECORD.--Water temperatures: November 1952 to September 1971.

EXTREMES.--1970-71:

Water temperatures: Maximum, 29.5 °C June 28; minimum, freezing point on many days during December, January, and February.

Period of record:

Water temperatures: Maximum, 34.0 °C Aug. 1, 1953; minimum, freezing point on many days during most winter periods.

REMARKS.--Temperatures affected by powerplant upstream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	16.5	14.5	12.5	11.0	11.0	10.0	0.0	0.0	0.5	0.0	5.0	4.5
2	17.0	14.5	12.5	10.5	12.0	10.0	0.5	0.0	1.0	0.0	5.5	5.0
3	16.5	15.0	12.5	10.5	11.5	10.5	0.5	0.0	2.0	0.5	5.5	4.0
4	15.5	13.0	11.0	10.0	11.5	9.0	2.0	0.5	3.0	0.0	4.0	2.5
5	17.0	14.0	11.5	9.5	10.5	7.5	2.0	1.0	0.0	0.0	4.0	2.5
6	19.0	17.0	11.0	11.0	7.5	3.5	1.0	0.0	0.0	0.0	5.0	3.5
7	19.5	19.0	11.0	9.5	5.5	2.5	1.5	0.0	0.0	0.0	4.5	3.0
8	19.0	18.5	10.0	9.5	6.5	4.5	2.0	0.0	0.0	0.0	3.0	1.0
9	19.5	17.5	10.5	8.5	7.5	6.0	2.0	0.0	1.0	0.0	2.5	0.5
10	17.5	15.5	11.5	9.5	8.5	6.5	2.0	0.0	2.0	0.0	3.5	2.0
11	16.0	14.0	11.5	10.5	10.0	8.5	3.0	0.0	2.0	0.0	3.0	2.5
12	16.0	14.5	12.0	10.0	10.0	7.5	3.0	0.5	2.0	0.0	4.0	1.5
13	17.0	15.5	12.0	10.5	9.5	8.0	3.5	0.5	0.5	0.0	4.0	3.5
14	17.0	16.5	11.5	7.5	8.0	6.0	3.5	0.5	1.0	0.0	5.0	4.0
15	17.5	16.0	7.5	6.5	7.5	4.5	2.5	0.0	2.0	0.0	6.0	5.0
16	17.0	13.5	6.5	5.0	7.0	4.5	2.0	0.0	2.5	0.0	5.5	4.0
17	15.5	12.0	6.5	5.0	6.5	4.5	2.5	0.0	2.5	0.0	4.0	3.5
18	15.0	11.0	7.0	5.0	7.5	5.0	0.5	0.0	0.0	0.0	4.0	3.5
19	15.0	10.5	9.0	7.0	8.0	6.0	2.5	0.5	0.5	0.0	3.5	3.5
20	15.0	13.0	9.5	7.5	7.0	4.0	2.5	0.0	1.5	0.5	4.0	3.0
21	15.5	14.5	8.5	6.5	6.5	3.5	3.0	0.0	2.0	1.5	4.0	2.5
22	16.0	14.0	8.5	7.5	6.5	4.0	4.0	2.0	2.0	1.5	5.0	4.0
23	16.0	14.0	7.5	4.5	6.5	4.0	4.0	1.5	2.0	1.5	5.0	3.0
24	15.5	13.0	5.0	4.0	4.0	2.5	3.5	1.5	2.5	2.0	4.0	3.0
25	14.5	13.0	4.0	2.5	2.5	0.5	4.0	3.5	3.0	2.5	5.5	3.5
26	17.0	14.0	4.0	2.0	0.5	0.0	4.0	0.5	5.5	3.0	7.0	4.0
27	17.5	17.0	4.0	2.0	1.0	0.0	2.0	0.0	6.0	5.5	7.0	5.5
28	17.5	16.0	5.0	4.0	3.0	0.0	2.5	1.0	6.0	5.0	8.5	7.0
29	17.0	16.0	6.5	5.0	2.5	0.0	3.0	0.0	---	---	8.0	7.0
30	16.5	14.0	10.0	6.5	2.5	0.0	3.5	0.0	---	---	8.0	6.5
31	14.0	12.5	---	---	2.5	0.0	0.0	0.0	---	---	10.5	7.0
MONTH	19.5	10.5	12.5	2.0	12.0	0.0	4.0	0.0	6.0	0.0	10.5	0.5

03349000 WHITE RIVER AT NOBLESVILLE, IND.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

03351000 WHITE RIVER NEAR NORA, IND.

LOCATION.--Lat 39°54'35", long 86°06'20", in NW¼NW¼ sec.20, T.17 N., R.4 E., Marion County, at gaging station on downstream side of center pier of bridge on State Highway 100, 2 miles east of Nora, 14 miles upstream from Fall Creek, and at mile 253.4.

DRAINAGE AREA.--1,219 sq mi.

PERIOD OF RECORD.--Water temperatures: June 1954 to May 1960, October 1962 to September 1971.

EXTREMES.--1970-71:

Water temperatures: Maximum, 30.5 °C June 28, 29; minimum, freezing point on many days during January and February.

Period of record:

Water temperatures: Maximum, 32.0 °C July 14, 1954; minimum, freezing point on many days during most winter periods.

REMARKS.--Temperature affected by powerplant upstream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	19.0	19.0	14.0	13.5	10.0	9.0	1.5	1.5	0.0	0.0	5.0	5.0
2	19.0	18.5	13.5	13.0	10.5	10.0	2.0	1.5	0.0	0.0	5.5	5.0
3	19.0	18.5	13.0	12.0	10.5	10.5	2.0	1.5	0.0	0.0	5.5	5.5
4	18.5	18.0	12.0	11.5	11.0	10.0	2.0	1.5	0.0	0.0	5.5	5.0
5	18.0	16.5	11.5	11.5	10.0	9.5	2.0	1.5	0.0	0.0	5.0	5.0
6	17.0	16.5	11.5	11.5	9.5	8.0	1.5	1.5	0.0	0.0	5.0	5.0
7	17.0	16.5	11.5	11.5	8.0	5.5	1.5	1.0	0.0	0.0	5.0	5.0
8	17.5	17.0	11.5	11.0	5.5	4.0	1.0	0.5	0.0	0.0	5.5	5.0
9	17.0	17.0	11.5	11.5	4.5	4.0	0.5	0.0	0.0	0.0	5.5	5.0
10	17.0	16.5	11.5	11.0	4.5	4.0	0.0	0.0	0.0	0.0	5.0	5.0
11	17.0	17.0	11.0	10.5	4.5	4.0	0.0	0.0	0.0	0.0	5.0	5.0
12	17.0	16.5	10.5	9.5	5.0	4.0	0.0	0.0	0.0	0.0	5.0	5.0
13	16.5	15.0	9.5	9.0	5.0	3.5	0.5	0.0	0.0	0.0	5.5	5.0
14	16.5	15.0	9.0	9.0	5.0	3.5	0.0	0.0	0.0	0.0	6.0	5.5
15	17.0	16.5	9.0	8.5	4.5	3.0	0.0	0.0	0.0	0.0	6.0	6.0
16	17.0	16.5	8.5	7.5	4.5	3.0	0.0	0.0	2.5	0.0	6.0	5.5
17	16.5	16.0	7.5	5.5	4.5	2.5	0.0	0.0	3.0	2.5	5.5	5.0
18	16.0	16.0	5.5	5.5	4.5	2.5	0.0	0.0	3.0	2.5	5.0	4.5
19	16.0	15.5	5.5	5.5	5.0	2.0	0.0	0.0	2.5	2.5	4.5	4.5
20	15.5	15.5	6.0	5.5	5.0	1.5	0.0	0.0	2.5	2.5	4.5	4.0
21	15.5	15.5	6.5	6.0	4.5	1.5	0.0	0.0	2.5	2.5	4.0	3.5
22	15.0	15.5	7.0	6.5	4.5	1.0	0.0	0.0	2.5	2.5	3.5	3.0
23	16.0	15.0	7.0	6.5	4.5	0.5	0.0	0.0	2.5	2.5	3.0	3.0
24	16.0	16.0	7.0	5.5	4.0	0.5	0.0	0.0	2.5	2.5	3.0	3.0
25	16.0	16.0	5.5	5.0	4.0	4.0	0.0	0.0	2.5	2.5	3.0	3.0
26	16.5	16.0	5.0	5.0	4.0	3.0	0.0	0.0	3.0	2.5	3.0	3.0
27	16.5	16.0	6.0	5.0	3.0	2.5	0.0	0.0	4.0	3.0	3.0	3.0
28	16.5	16.5	7.0	6.0	2.5	2.0	0.0	0.0	5.0	4.5	4.0	3.0
29	16.5	15.5	8.0	7.0	2.0	1.5	0.0	0.0	---	---	4.0	4.0
30	15.0	15.0	9.0	8.0	2.0	1.5	0.0	0.0	---	---	4.0	4.0
31	15.0	14.0	---	---	2.0	1.5	0.0	0.0	---	---	4.5	4.0
MONTH	19.0	14.0	14.0	5.0	11.0	0.5	2.0	0.0	5.0	0.0	6.0	3.0

[illegible]

03354000 WHITE RIVER NEAR CENTERTON, IND.

LOCATION.--Lat 39°30'02", long 86°24'24", in SW¼SE¼ sec.3, T.12 N., R.1 E., Morgan County, at gaging station on right bank, 0.4 mile downstream from bridge on Blue Bluff Road, 1 mile south of Centerton, 1.1 miles downstream from White Lick Creek, and at mile 202.6.

DRAINAGE AREA.--2,444 sq mi.

PERIOD OF RECORD.--Water temperatures: September 1953 to April 1956, October 1966 to September 1967, May 1970 to September 1971. Sediment records: March 1965 to July 1968 (partial record).

EXTREMES.--1970-71:

Water temperatures: Maximum, 31.0 °C June 27, 28; minimum, freezing point for periods, Jan. 7-10 and Feb. 1-15.

Period of record:

Water temperatures: Maximum, 33.0 °C July 3, 1970; minimum, freezing point Feb. 13, 14, 1955, Jan. 7-10, 1970, and Feb. 1-15, 1970.

REMARKS.--Temperature affected by upstream powerplants and reservoirs. Sediment samples were taken at highway bridge, 0.4 mile upstream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	20.5	18.5	15.5	15.0	12.5	10.0	4.5	4.0	0.5	0.0	3.0	3.0
2	20.5	18.5	15.0	13.0	12.5	12.5	4.5	4.5	0.0	0.0	3.5	3.0
3	20.5	18.5	13.0	12.5	13.0	12.5	5.0	4.5	1.0	0.0	3.5	3.0
4	18.5	17.0	12.5	12.5	13.0	11.0	5.0	2.5	1.0	0.0	3.0	2.0
5	18.0	16.5	12.5	12.0	11.0	9.0	2.5	1.5	0.0	0.0	3.0	2.0
6	19.5	18.0	12.0	11.0	9.0	7.0	1.0	0.5	0.0	0.0	3.5	3.0
7	20.0	19.0	12.0	11.5	7.0	6.5	0.5	0.0	0.0	0.0	3.5	3.0
8	20.0	20.0	12.0	11.5	7.0	6.5	0.0	0.0	0.0	0.0	3.0	1.5
9	20.0	19.0	11.5	11.5	9.0	7.0	0.0	0.0	0.0	0.0	2.0	1.5
10	19.0	18.0	11.5	11.5	9.5	9.0	0.5	0.0	0.0	0.0	3.0	2.0
11	18.0	16.5	11.5	11.5	10.0	9.5	1.5	0.5	1.0	0.0	3.0	3.0
12	17.0	17.0	11.5	11.5	10.0	9.5	2.0	1.5	1.5	0.0	4.5	3.0
13	19.0	17.0	11.5	11.5	9.5	7.5	2.5	2.0	0.0	0.0	5.5	4.5
14	19.5	18.5	12.0	11.5	7.5	6.5	3.0	2.5	0.0	0.0	5.5	5.5
15	19.0	17.0	11.5	10.5	6.5	6.0	3.0	2.5	0.5	0.0	6.0	5.5
16	17.0	16.0	10.5	10.0	6.5	6.5	2.5	2.0	2.0	0.5	6.0	5.0
17	16.0	15.0	10.0	10.0	6.5	6.5	2.0	2.0	2.0	0.5	5.0	4.5
18	15.0	14.5	10.5	10.0	7.5	6.5	2.0	1.0	1.0	0.5	4.5	4.5
19	14.5	14.0	11.0	10.5	8.0	7.5	1.0	1.0	1.5	1.0	4.5	4.0
20	14.5	14.5	11.0	10.0	8.0	7.5	1.0	1.0	2.0	1.5	4.0	3.0
21	16.0	14.5	10.0	8.5	7.5	6.5	1.5	1.0	2.0	2.0	4.5	3.5
22	16.0	15.5	8.5	8.0	6.5	6.0	2.5	1.5	2.0	2.0	4.5	4.5
23	16.0	15.5	8.0	5.0	6.0	5.5	3.0	2.5	2.0	2.0	4.5	4.0
24	16.0	16.0	5.0	4.5	5.5	4.0	3.0	3.0	2.0	2.0	4.5	3.5
25	16.5	16.0	4.5	4.5	4.0	3.0	3.0	3.0	2.5	2.0	5.0	4.0
26	18.0	16.5	6.5	4.5	3.0	2.5	3.0	1.5	3.0	2.5	7.0	5.0
27	18.0	18.0	9.0	6.5	2.5	2.5	1.5	1.0	3.0	2.5	7.5	7.0
28	18.0	16.0	9.0	9.0	2.5	2.5	1.5	1.0	3.0	3.0	9.0	7.5
29	18.0	17.5	9.5	9.0	2.5	2.5	1.5	1.5	---	---	9.5	8.5
30	17.5	15.5	10.0	9.5	3.0	2.5	2.0	1.5	---	---	10.0	9.0
31	15.5	15.5	---	---	4.0	2.5	2.0	0.5	---	---	11.5	10.0
MONTH	20.5	14.0	15.5	4.5	13.0	2.5	5.0	0.0	3.0	0.0	11.5	1.5

03354000 WHITE RIVER NEAR CENTERION, IND. --Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1971 TO SEPTEMBER 1971--Continued

[illegible]

03364500 CLIFTY CREEK AT HARTSVILLE, IND.

LOCATION.--Lat 39°16'25", long 85°42'10", in NW¼NW¼ sec.36, T.10 N., R.7 E., Bartholomew County, at gaging station at downstream side of left abutment of highway bridge, 0.2 mile north of Hartsville, and 5 miles upstream from Duck Creek.

DRAINAGE AREA.--91.4 sq mi.

PERIOD OF RECORD.--Chemical analyses: December 1970 to September 1971.
Water temperatures: December 1970 to September 1971.

EXTREMES.--1970-71:

Specific conductance: Maximum, 649 micromhos Dec. 29; minimum, 273 micromhos Sept. 20.
Water temperatures: Maximum, 30.0 °C June 6; minimum, freezing point on many days during December and January.

Period of record:

Specific conductance: Maximum, 649 micromhos Dec. 29, 1970; minimum, 273 micromhos Sept. 20, 1971.
Water temperatures: Maximum, 30.0 °C June 6, 1971; minimum, freezing point on many days during most winter periods.

SPECIFIC CONDUCTANCE (MICROMHOS AT 25°C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	525	517	619	600	---	---	---	---
2	---	---	---	---	532	515	600	581	---	---	---	---
3	---	---	---	---	523	508	579	350	---	---	---	---
4	---	---	---	---	527	508	423	304	---	---	---	---
5	---	---	---	---	521	512	442	315	---	---	---	---
6	---	---	---	---	521	515	512	446	---	---	---	---
7	---	---	---	---	532	517	561	498	---	---	---	---
8	---	---	---	---	532	521	594	561	---	---	---	---
9	---	---	---	---	529	517	611	594	---	---	---	---
10	---	---	---	---	523	515	625	605	---	---	---	---
11	---	---	---	---	517	512	608	574	---	---	---	---
12	---	---	---	---	519	510	594	574	---	---	---	---
13	---	---	---	---	512	506	574	529	---	---	---	---
14	---	---	---	---	515	502	525	477	---	---	---	---
15	---	---	---	---	510	498	496	468	---	---	---	---
16	---	---	---	---	504	492	494	471	---	---	---	---
17	---	---	---	---	519	492	504	490	---	---	---	---
18	---	---	---	---	529	517	504	476	---	---	---	---
19	---	---	---	---	543	529	---	---	---	---	---	---
20	---	---	---	---	552	543	---	---	---	---	---	---
21	---	---	---	---	557	538	---	---	---	---	---	---
22	---	---	---	---	554	498	---	---	---	---	---	---
23	---	---	---	---	564	532	---	---	---	---	---	---
24	---	---	---	---	529	508	---	---	---	---	---	---
25	---	---	---	---	501	529	---	---	---	---	---	---
26	---	---	---	---	539	564	---	---	---	---	---	---
27	---	---	---	---	614	539	---	---	---	---	---	---
28	---	---	---	---	625	614	---	---	---	---	---	---
29	---	---	---	---	649	619	---	---	---	---	---	---
30	---	---	---	---	634	622	---	---	---	---	---	---
31	---	---	---	---	625	505	---	---	---	---	---	---
MONTH	---	---	---	---	649	492	---	---	---	---	---	---

WABASH RIVER BASIN

03364500 CLIFTY CREEK AT HARTSVILLE, IND.--Continued

SPECIFIC CONDUCTANCE (MICROMHOS AT 25 °C), WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

03364500 CLIFTY CREEK AT HARTSVILLE, IND.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	---	---	---	---	13.0	12.0	0.5	0.0	---	---	---	---
2	---	---	---	---	11.5	9.0	1.5	0.5	---	---	---	---
3	---	---	---	---	12.0	9.0	1.5	0.5	---	---	---	---
4	---	---	---	---	11.5	6.5	2.5	1.0	---	---	---	---
5	---	---	---	---	6.5	5.0	2.0	0.5	---	---	---	---
6	---	---	---	---	5.0	1.0	0.5	0.0	---	---	---	---
7	---	---	---	---	2.0	0.5	0.5	0.0	---	---	---	---
8	---	---	---	---	4.0	1.0	0.5	0.0	---	---	---	---
9	---	---	---	---	6.0	2.5	0.5	0.0	---	---	---	---
10	---	---	---	---	6.0	4.0	1.0	0.0	---	---	---	---
11	---	---	---	---	7.5	5.5	0.5	0.0	---	---	---	---
12	---	---	---	---	7.0	5.0	0.5	0.5	---	---	---	---
13	---	---	---	---	6.0	4.5	1.0	0.5	---	---	---	---
14	---	---	---	---	4.5	2.0	1.0	0.5	---	---	---	---
15	---	---	---	---	4.0	1.5	1.0	0.0	---	---	---	---
16	---	---	---	---	4.5	3.0	0.5	0.0	---	---	---	---
17	---	---	---	---	4.5	4.5	0.5	0.0	---	---	---	---
18	---	---	---	---	6.0	4.0	0.5	0.0	---	---	---	---
19	---	---	---	---	6.5	5.5	---	---	---	---	---	---
20	---	---	---	---	5.5	4.5	---	---	---	---	---	---
21	---	---	---	---	4.5	4.5	---	---	---	---	---	---
22	---	---	---	---	6.0	4.5	---	---	---	---	---	---
23	---	---	---	---	6.5	4.5	---	---	---	---	---	---
24	---	---	---	---	4.5	1.5	---	---	---	---	---	---
25	---	---	---	---	1.5	0.0	---	---	---	---	---	---
26	---	---	---	---	0.5	0.0	---	---	---	---	---	---
27	---	---	---	---	0.5	0.0	---	---	---	---	---	---
28	---	---	---	---	0.5	0.0	---	---	---	---	---	---
29	---	---	---	---	0.5	0.0	---	---	---	---	---	---
30	---	---	---	---	0.5	0.0	---	---	---	---	---	---
31	---	---	---	---	0.5	0.0	---	---	---	---	---	---
4 JYTH	---	---	---	---	13.0	0.0	---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IND.

LOCATION.--Lat 38°58'57", long 85°53'57", in NW¼NE¼ sec.7, T.6 N., R.6 E., Jackson County, at gaging station on left bank 1,700 ft downstream from highway bridge, 1 mile north of Seymour, 9.6 miles downstream from Sand Creek, and at mile 219.2.

DRAINAGE AREA.--2,341 sq mi.

PERIOD OF RECORD.--Water temperatures: October 1954 to September 1971.
Sediment records: July 1966 to September 1971.

EXTREMES.--1970-71:

Water temperatures: 28.5 °C June 27, 28, 30; minimum, 1.0 °C Feb. 3-11, 13.

Sediment concentrations: Maximum daily, 657 mg/l June 21; minimum daily, 20 mg/l March 31 to April 1.

Sediment loads: Maximum daily, 39,600 tons Feb. 23; minimum daily, 22 tons Oct. 6-8.

Period of record:

Water temperatures: Maximum, 31.0 °C July 13, 14, 1966; minimum, freezing point on many days during most winter periods.

Maximum temperature of 32° C was observed on July 19, 1954.

Sediment concentrations: Maximum daily, 1,200 mg/l May 25, June 25, 1968; minimum daily, 4 mg/l Nov. 5, 1966.

Sediment loads: Maximum daily, 179,000 tons May 25, 1968; minimum daily, 3 tons Nov. 5, 1966.

REMARKS.--Temperatures affected by pumping plant 1,200 ft upstream. Sediment samples collected at highway bridge 1,700 ft upstream.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	17.0	13.5	12.5	10.5	9.0	2.0	1.5	1.5	1.5	7.0	6.5
2	18.0	16.5	12.5	11.0	10.5	10.5	3.0	2.0	1.5	1.5	7.0	7.0
3	18.0	16.5	11.0	10.5	11.5	10.5	4.5	3.0	1.5	1.0	7.0	6.0
4	16.5	15.5	10.5	10.0	11.5	5.5	5.0	4.0	1.0	1.0	6.0	5.0
5	16.0	14.5	10.0	9.5	5.5	7.0	4.0	3.5	1.0	1.0	5.0	4.5
6	16.5	15.5	9.5	9.5	7.0	5.0	3.5	2.0	1.0	1.0	4.5	4.5
7	17.0	16.5	10.0	9.5	5.0	4.5	2.0	2.0	1.0	1.0	4.5	4.0
8	17.0	17.0	10.5	10.0	4.5	4.0	2.0	2.0	1.0	1.0	4.0	3.5
9	17.0	16.0	10.5	10.0	5.5	4.5	2.0	1.5	1.0	1.0	3.5	3.0
10	16.0	15.5	10.5	10.5	6.5	5.5	1.5	1.5	1.0	1.0	3.0	3.0
11	15.5	14.5	10.5	10.5	7.5	6.5	2.0	1.5	2.0	1.0	4.0	3.0
12	15.0	15.0	10.5	10.5	7.5	7.0	2.5	2.0	2.5	1.5	5.5	4.0
13	16.5	15.0	10.5	10.5	7.0	6.0	3.0	2.5	1.5	1.0	6.0	5.5
14	17.0	16.5	10.5	9.0	6.0	5.0	3.5	3.0	1.5	1.5	6.0	6.0
15	17.0	15.0	9.0	8.0	5.5	5.0	3.5	3.0	1.5	1.5	6.5	6.0
16	15.0	14.0	8.0	7.0	5.0	5.0	3.0	2.0	2.0	1.5	6.5	6.5
17	14.0	12.5	7.0	6.5	5.0	5.0	2.0	2.0	4.0	2.0	7.0	6.5
18	13.0	12.0	7.5	7.0	5.5	5.0	2.0	1.5	2.0	2.0	7.0	6.5
19	12.0	11.5	8.0	7.5	6.5	5.5	1.5	1.5	2.5	2.0	7.5	6.5
20	12.5	12.0	8.5	8.0	6.5	6.0	1.5	1.5	3.5	2.5	6.5	5.5
21	13.0	12.5	8.0	7.5	6.0	5.5	1.5	1.5	3.5	3.5	5.5	5.0
22	13.5	13.0	7.5	7.0	6.0	5.5	2.5	1.5	4.0	3.5	6.0	5.0
23	14.0	13.0	7.0	4.5	6.5	6.0	3.0	2.5	4.0	4.0	5.5	5.0
24	14.0	13.5	4.5	2.5	6.5	5.5	3.0	3.0	4.0	3.5	5.0	4.5
25	14.5	13.5	2.5	2.0	5.5	3.0	3.5	3.0	3.5	3.0	5.0	4.5
26	15.5	14.5	4.0	2.5	3.0	2.0	3.5	2.5	5.5	3.5	6.5	5.0
27	15.5	15.0	5.0	4.0	2.0	1.5	2.5	1.5	7.0	5.5	7.0	6.5
28	15.5	15.5	7.0	6.0	1.5	1.5	1.5	1.5	7.0	6.5	8.5	7.0
29	15.5	14.5	8.0	7.0	1.5	1.5	1.5	1.5	---	---	9.5	8.0
30	14.5	14.0	9.5	8.0	1.5	1.5	2.5	1.5	---	---	9.5	8.0
31	14.0	13.0	---	---	2.0	1.5	2.0	1.5	---	---	10.0	8.5
MONTH	18.0	11.5	13.5	2.0	11.5	1.5	5.0	1.5	7.0	1.0	10.0	3.0

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IND.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IND.--Continued

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER			NOVEMBER			DECEMBER		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	321	41	36	413	61	68	614	104	172
2	316	37	32	423	62	71	606	103	169
3	306	36	30	430	63	73	610	101	166
4	296	33	26	434	65	76	602	100	163
5	290	31	24	441	65	79	578	99	154
6	287	29	22	444	65	78	598	107	173
7	293	28	22	430	62	72	622	107	180
8	297	28	22	420	60	68	618	107	179
9	296	37	24	416	57	64	598	104	168
10	209	31	26	427	55	63	570	100	154
11	302	37	24	427	53	61	563	96	146
12	323	40	35	423	52	57	570	92	142
13	372	48	48	423	50	57	567	87	133
14	395	62	66	427	53	61	590	86	137
15	602	65	154	469	58	73	654	90	159
16	682	91	168	519	61	95	742	81	162
17	738	78	155	546	62	91	909	86	211
18	638	72	126	574	61	95	1110	77	231
19	574	71	110	606	59	97	1340	76	275
20	553	63	102	742	92	164	1250	75	253
21	560	66	130	1103	70	267	1140	58	179
22	525	64	71	1220	108	356	1290	191	665
23	511	61	84	1130	91	278	2090	200	1130
24	486	57	75	968	73	269	2560	120	829
25	448	55	67	342	34	214	2130	98	564
26	434	52	61	770	87	181	1670	89	401
27	420	49	56	738	82	163	1360	85	312
28	406	46	54	670	76	156	1150	83	258
29	409	52	57	646	93	162	1050	92	232
30	416	57	64	626	100	169	990	91	214
31	409	60	66	--	--	--	920	81	201
TOTAL	13209	--	2027	18143	--	3770	30651	--	8512
DAY	JANUARY			FEBRUARY			MARCH		
	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
1	860	81	188	600	53	86	8810	95	2020
2	820	78	173	600	58	94	6370	78	1340
3	800	75	162	600	69	112	4970	64	859
4	1950	234	1620	660	119	230	4140	49	548
5	5150	452	6270	5340	475	6970	3490	42	395
6	5570	254	3820	10170	444	12100	3090	42	350
7	3860	121	1260	12000	236	7650	3590	99	947
8	2590	66	462	9550	139	3560	4190	107	1210
9	2000	59	310	3540	77	736	3980	43	462
10	1700	57	262	2150	49	284	3390	31	284
11	1500	55	223	1780	32	154	3760	49	497
12	1400	53	200	1800	154	755	4140	48	537
13	1310	51	130	5110	240	3310	4050	41	448
14	1480	67	268	4600	56	695	3970	43	441
15	1920	81	470	3220	46	400	4000	84	907
16	1740	80	376	2340	63	398	4910	155	2050
17	1460	91	259	2580	299	3780	4520	88	1070
18	1290	96	277	3590	494	12800	1750	60	608
19	1120	100	372	11200	293	9860	3230	43	375
20	1080	89	260	12400	291	9740	3400	38	349
21	1000	94	254	14100	345	13100	3440	42	390
22	940	83	223	17600	323	15300	3300	39	347
23	890	84	202	24900	589	19600	2930	35	277
24	840	79	179	19200	458	23700	2570	33	229
25	930	74	160	14900	193	7310	2790	32	198
26	760	69	142	8940	104	2510	2110	30	171
27	730	64	126	7940	140	3000	1990	28	150
28	700	59	112	2520	121	3110	1880	25	127
29	680	55	101	--	--	--	1800	23	112
30	660	54	96	--	--	--	1710	22	102
31	630	54	92	--	--	--	1600	20	96
TOTAL	48220	--	19128	217760	--	180345	111170	--	17886

SUSPENDED-SEDIMENT DISCHARGE, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

APRIL				MAY				JUNE			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	1550	20	94	790	25	53	1130	50	153		
2	1710	23	139	758	25	51	1120	49	145		
3	1830	20	147	722	24	47	1140	52	160		
4	1600	27	122	702	24	45	1250	94	317		
5	1540	24	109	694	24	45	1230	49	163		
6	1470	24	103	742	30	60	1120	47	142		
7	1460	27	106	1220	142	468	1040	46	120		
8	1420	34	130	2690	145	1050	1040	53	149		
9	1360	26	129	2220	95	920	1180	75	239		
10	1330	34	119	3420	76	743	1620	189	422		
11	1250	34	115	2720	61	448	1460	106	418		
12	1210	34	111	2160	53	302	1240	73	248		
13	1130	35	112	1960	52	275	1130	74	242		
14	1170	27	117	2110	57	325	1670	383	1750		
15	1170	41	130	1390	43	245	2230	414	2490		
16	1140	45	141	1610	43	187	2830	346	2640		
17	1120	48	145	1440	42	163	1730	191	875		
18	1070	47	138	1330	42	151	1340	196	1450		
19	1070	45	130	1260	42	143	1170	317	1000		
20	1040	43	121	1550	152	678	1570	528	2240		
21	1030	20	108	1350	105	383	2320	657	4120		
22	1040	25	98	1210	54	176	2330	446	2910		
23	1020	21	85	1100	50	149	2110	312	1820		
24	986	23	93	1040	43	135	1610	198	961		
25	945	23	71	1190	51	154	1340	147	532		
26	905	26	64	2060	179	1020	1180	128	408		
27	849	25	59	2380	211	1360	1070	119	344		
28	851	25	57	1890	27	492	980	111	294		
29	828	26	56	1530	58	242	941	105	247		
30	913	25	55	1340	56	203	1570	237	1000		
31	--	--	--	1220	53	175	--	--	--		
TOTAL	26123	--	2130	50188	--	10893	43781	--	28228		
JULY				AUGUST				SEPTEMBER			
DAY	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCENTRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)		
1	1380	273	1343	546	59	128	288	49	38		
2	1120	147	445	578	47	105	287	42	38		
3	278	130	288	532	65	95	281	49	37		
4	866	87	233	612	63	112	742	111	241		
5	792	28	167	594	59	95	490	66	87		
6	749	74	149	546	53	78	409	47	52		
7	713	75	144	507	52	71	436	42	46		
8	636	77	143	472	51	65	406	43	47		
9	667	78	139	444	50	60	578	48	75		
10	646	73	134	437	49	53	518	38	53		
11	650	78	137	429	47	53	462	37	46		
12	1110	156	500	413	46	51	413	37	41		
13	1220	90	220	220	45	49	429	36	47		
14	675	63	155	395	35	48	556	43	65		
15	431	55	123	382	44	45	524	49	65		
16	746	54	130	365	44	43	444	46	55		
17	646	52	73	356	44	42	399	44	47		
18	704	54	125	347	44	41	359	42	41		
19	452	65	149	335	44	40	335	40	36		
20	798	65	140	325	44	39	369	44	44		
21	717	60	116	322	45	39	574	54	84		
22	648	55	26	214	45	38	549	49	73		
23	637	52	45	293	45	36	567	48	73		
24	526	51	32	293	45	36	511	46	63		
25	713	68	131	293	44	35	444	45	54		
26	628	55	92	338	44	40	497	62	91		
27	638	52	92	375	44	45	859	96	225		
28	639	52	87	326	45	42	666	41	74		
29	655	62	102	296	46	37	622	38	64		
30	834	62	145	284	47	36	567	36	55		
31	792	72	142	275	48	36	--	--	--		
TOTAL	24614	--	5836	12558	--	1735	14591	--	2247		
TOTAL DISCHARGE FOR YEAR (CFS-DAYS)									621008		
TOTAL SEDIMENT-DISCHARGE FOR YEAR (TONS)									281637		

03365500 EAST FORK WHITE RIVER AT SEYMOUR, IND.--Continued

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SEC. FALL DIAM. % FINER THAN .002 MM	SUS. SEC. FALL DIAM. % FINER THAN .004 MM	SUS. SEC. FALL DIAM. % FINER THAN .008 MM	SUS. SEC. FALL DIAM. % FINER THAN .016 MM	SUS. SEC. FALL DIAM. % FINER THAN .031 MM	SUS. SEC. FALL DIAM. % FINER THAN .062 MM
APR. 30...	1600	18.0	9C2C	890	217C0	51	67	82	94	99	100

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- DED SEDI- MENT (MG/L)	SUS- PEN- DED SEDI- MENT DIS- CHARGE (T/DAY)	SUS. SEC. FALL DIAM. % FINER THAN .002 MM	SUS. SEC. FALL DIAM. % FINER THAN .004 MM
JAN. 05...	1600	1.5	5420	417	6100	50	6C
FEB. 06...	0700	.0	9420	555	14100	44	56
FEB. 15...	1315	2.0	12800	234	8090	54	65
JUNE 18...	0700	22.0	1410	427	1630	76	87
JULY 01...	07C0	26.0	1460	321	1270	62	82

DATE	SUS. SEC. FALL DIAM. % FINER THAN .008 MM	SUS. SEC. FALL DIAM. % FINER THAN .016 MM	SUS. SEC. FALL DIAM. % FINER THAN .031 MM	SUS. SEC. FALL DIAM. % FINER THAN .062 MM	SUS. SEC. FALL DIAM. % FINER THAN .125 MM	SUS. SEC. FALL DIAM. % FINER THAN .25C MM	SUS. SEC. FALL DIAM. % FINER THAN .500 MM
JAN. 05...	69	82	95	99	100	--	--
FEB. 06...	69	81	94	99	100	--	--
FEB. 15...	75	82	86	89	91	95	10C
JUNE 18...	93	97	99	99	100	--	--
JULY 01...	95	98	99	100	--	--	--

WABASH RIVER BASIN

03372500 SALT CREEK NEAR HARRODSBURG, IND.

LOCATION.--Lat 39°00'16", long 86°30'31", in NE 1/4 sec. 34, T.7 N., R.1 W., Monroe County, at gaging station on right bank 1,300 ft downstream from Monroe Lake, 0.9 mile upstream from Clear Creek, 2.2 miles southeast of Harrodsburg, and 25.1 miles upstream from mouth.

DRAINAGE AREA.--432 sq mi.

PERIOD OF RECORD.--Water temperatures: August 1966 to September 1971.

EXTREMES.--1970-71:

Water temperatures: Maximum, 26.5 °C July 2-4; minimum, 1.5 °C Feb. 10-24, 26, 27.

Period of record:

Water temperatures: Maximum, 26.5 °C July 2-4, 1971; minimum, 1.0 °C Jan. 4, 5, 8-13, 1968.

Maximum observed temperature, 31.0 °C Aug. 6, 1964.

REMARKS.--Temperatures affected by Monroe Lake.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
DAY	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	18.0	17.0	13.5	13.0	9.0	9.0	4.0	4.0	3.5	3.5	2.5	2.5
2	17.0	17.0	13.0	12.5	9.0	9.0	4.0	3.5	3.5	3.0	3.0	2.5
3	17.0	16.5	12.5	12.0	9.0	9.0	3.5	3.5	3.0	2.5	3.0	3.0
4	16.5	16.0	12.0	11.5	9.5	9.0	3.5	3.5	2.5	2.5	3.0	3.0
5	16.0	16.0	12.5	11.5	9.5	9.0	3.5	3.5	2.5	2.0	3.0	3.0
6	16.0	15.5	13.0	12.0	9.0	8.5	3.5	3.5	2.0	2.0	3.0	3.0
7	15.5	15.5	13.0	13.0	8.5	8.5	3.5	3.5	2.0	2.0	3.0	3.0
8	15.5	15.5	13.5	12.5	8.5	8.5	3.5	3.5	2.0	2.0	3.0	3.0
9	15.5	14.0	14.0	13.5	8.5	8.5	3.5	3.5	2.5	2.0	3.0	2.5
10	14.5	14.0	14.0	14.0	8.5	8.0	3.5	3.0	2.5	1.5	2.5	2.5
11	14.5	14.0	14.0	14.0	8.0	7.0	3.0	3.0	1.5	1.5	2.5	2.5
12	14.5	14.0	14.0	14.0	7.5	7.0	3.0	3.0	1.5	1.5	3.0	2.5
13	15.0	14.5	14.0	13.5	7.0	7.0	3.0	3.0	1.5	1.5	3.0	3.0
14	14.5	14.0	13.5	13.0	7.0	7.0	3.0	3.0	1.5	1.5	3.5	3.0
15	15.0	14.5	13.0	12.5	7.0	6.5	3.0	3.0	1.5	1.5	4.5	3.5
16	14.5	14.0	12.5	12.0	6.5	6.5	3.0	3.0	1.5	1.5	4.5	4.5
17	14.0	14.0	12.5	12.0	6.5	6.5	3.0	3.0	1.5	1.5	5.0	4.5
18	14.0	13.0	12.0	12.0	6.5	6.0	3.0	3.0	2.0	1.5	5.0	4.5
19	13.5	13.0	12.0	12.0	6.0	6.0	3.0	3.0	2.0	1.5	5.0	5.0
20	13.0	13.0	12.0	11.5	6.0	6.0	3.5	3.0	1.5	1.5	5.0	5.0
21	13.0	13.0	11.5	11.0	6.0	6.0	3.5	3.5	1.5	1.5	5.5	5.0
22	13.0	12.5	11.5	11.0	6.0	6.0	4.0	3.5	1.5	1.5	5.5	5.5
23	12.5	12.5	11.0	9.5	6.0	6.0	4.0	4.0	2.0	1.5	5.5	5.0
24	13.0	12.5	9.5	9.5	6.0	5.5	4.0	4.0	2.0	1.5	5.5	5.5
25	13.5	13.0	9.5	9.0	5.5	5.5	4.0	4.0	2.5	2.0	6.0	5.5
26	14.0	13.5	9.0	9.0	5.5	5.0	4.0	4.0	2.0	1.5	6.5	5.5
27	14.0	14.0	9.0	9.0	5.0	4.5	4.0	4.0	2.5	1.5	6.5	5.5
28	14.0	13.5	9.0	9.0	4.5	4.5	4.0	4.0	2.5	2.5	6.0	5.5
29	13.5	13.5	9.0	9.0	4.5	4.5	4.0	4.0	---	---	6.5	6.0
30	13.5	13.5	9.0	9.0	4.5	4.5	4.0	4.0	---	---	6.5	6.0
31	13.5	13.0	---	---	4.5	4.0	4.0	3.5	---	---	6.0	6.0
MONTH	18.0	12.5	14.0	9.0	9.5	4.0	4.0	3.0	3.5	1.5	6.5	2.5

03372500 SALT CREEK NEAR HARRODSBURG, IND.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

WABASH RIVER BASIN

03374000 WHITE RIVER AT PETERSBURG, IND.

LOCATION.--Lat 38°30'39", long 87°17'22", In SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.15, T.1 N., R.8 W., Pike County, at gaging station on left bank 300 ft downstream from bridge on State Highway 61, 0.4 mile upstream from Prides Creek, 1 mile north of Petersburg, and at mile 47.7.

DRAINAGE AREA.--11,125 sq mi.

PERIOD OF RECORD.--Water temperatures: June 1964 to September 1971.

EXTREMES.--1970-71:

Water temperatures: Maximum, 31.5 °C June 27-30; minimum, 1.5 °C Feb. 9-13.

Period of record:

Water temperatures: Maximum, 32.0 °C Aug. 18-21, 1970; minimum, freezing point on many days during most winter periods.

REMARKS.--Temperature affected by upstream reservoirs and powerplants.

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DAY	OCTOBER		NOVEMBER		DECEMBER		JANUARY		FEBRUARY		MARCH	
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN
1	25.0	23.5	15.5	15.5	15.0	14.0	5.5	5.0	6.0	5.0	6.0	5.5
2	24.5	23.5	15.5	15.5	15.5	14.5	6.0	5.5	6.5	6.0	6.0	6.0
3	24.0	22.0	15.5	14.5	15.5	15.0	6.5	6.0	8.0	6.5	6.0	6.0
4	22.0	20.5	14.5	14.0	15.5	14.5	6.5	6.0	8.0	6.5	6.0	6.0
5	21.0	20.5	14.0	13.0	14.5	13.5	6.0	4.5	6.5	3.5	6.0	6.0
6	21.5	21.0	13.0	13.0	13.5	12.0	4.5	4.0	3.5	2.0	6.0	6.0
7	22.0	21.0	13.5	13.0	12.0	11.5	4.0	4.0	2.0	2.0	6.0	6.0
8	22.0	22.0	13.5	13.5	11.5	11.0	4.0	3.5	2.0	2.0	6.0	5.5
9	22.0	20.5	14.5	13.5	12.0	11.0	4.0	3.5	2.0	1.5	6.0	6.0
10	20.5	19.5	14.5	14.0	13.0	12.0	3.5	3.5	1.5	1.5	6.0	6.0
11	19.5	19.5	14.5	14.0	13.5	13.0	4.0	3.5	1.5	1.5	6.0	6.0
12	19.5	19.5	15.5	14.5	13.5	13.0	5.0	4.0	1.5	1.5	6.5	6.0
13	20.0	19.5	15.5	15.5	13.0	13.0	5.5	5.0	2.0	1.5	8.0	6.5
14	20.0	20.0	15.5	14.0	13.0	12.0	5.5	5.5	3.0	2.0	8.5	8.0
15	20.0	19.5	14.0	13.0	12.0	12.0	5.5	5.5	3.0	3.0	9.0	8.5
16	19.5	18.5	13.0	12.0	12.0	12.0	5.5	5.5	3.5	3.0	9.0	9.0
17	18.5	18.0	12.0	11.5	12.0	11.0	5.5	5.5	3.5	3.5	9.0	9.0
18	18.0	17.0	13.0	11.5	11.0	10.5	5.5	5.5	3.5	3.5	9.0	9.0
19	17.0	16.5	13.5	13.0	10.5	10.0	5.5	4.5	4.0	3.5	9.0	8.5
20	16.5	16.5	13.5	13.0	10.5	10.0	4.5	4.5	4.0	4.0	8.5	8.5
21	17.0	16.5	13.0	11.5	10.0	10.0	4.5	4.5	4.0	4.0	8.5	8.0
22	17.5	17.0	11.5	11.0	10.0	9.5	4.5	4.0	4.0	4.0	8.0	8.0
23	17.5	17.0	11.0	9.5	9.5	9.5	4.5	4.0	4.0	4.0	8.0	8.0
24	17.5	17.5	9.5	8.5	9.5	8.5	6.0	4.5	4.0	4.0	8.0	7.5
25	17.5	16.0	8.5	8.5	8.5	8.0	7.0	6.0	4.5	4.0	8.0	8.0
26	17.0	16.5	9.0	8.0	8.0	7.0	7.0	7.0	5.0	4.5	8.0	7.5
27	17.0	17.0	11.0	9.0	7.0	6.5	7.0	6.0	5.0	5.0	8.5	8.0
28	18.0	17.0	12.0	11.0	6.5	5.5	6.0	6.0	5.5	5.0	10.5	8.5
29	18.0	18.0	13.0	12.0	5.5	5.0	7.5	6.0	---	---	11.0	10.5
30	18.0	15.5	14.0	13.0	5.0	5.0	7.5	7.0	---	---	11.5	11.0
31	16.0	15.5	---	---	5.0	5.0	7.0	6.0	---	---	13.0	11.5
MONTH	25.0	15.5	15.5	8.0	15.5	5.0	7.5	3.5	8.0	1.5	13.0	5.5

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

WABASH RIVER BASIN

03374470 PATOKA RIVER NEAR ENGLISH, IND.

LOCATION.--Lat 38°26'26", long 86°27'21", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.7, T.1 S., R.1 E., Orange County, at bridge on State Highway 37, 1 mile upstream from Hogs Defeat Creek, 8.0 miles north of English, and 8.7 miles south of Paoli.

DRAINAGE AREA.--30.8 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.
Water temperatures: August 1970 to September 1971.

EXTREMES.--1969-70:

Water temperatures: Maximum, 26.0 °C Sept. 7, 8; minimum, 9.0 °C Sept. 29.

1970-71:

Water temperatures: Maximum, 27.0 °C June 26, 27; minimum, freezing point on many days in January.

REMARKS.--Discharge measurements only to bankfull stage.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS- CHARGE (CFS)	SILICA (SiO ₂) (MG/L)	TOTAL IRON (FE) (UG/L)	IRON (FE) (UG/L)	TOTAL MAN- GANESE (MN) (UG/L)	MAN- GANESE (MN) (UG/L)	DIS- SOLVED CAL- CIUM (CA) (MG/L)	DIS- SOLVED MAG- NE- SIUM (MG) (MG/L)	SODIUM (NA) (MG/L)	SODIUM AD- SORP- TION RATIO
OCT. 28...	1030	3.3	5.8	130	100	10	1	67	8.7	3.9	.1
DEC. 02...	1110	7.9	7.1	210	40	4	3	69	6.2	3.7	.1
JAN. 12...	1145	16	4.6	170	80	170	130	58	5.1	2.6	.1
FEB. 22...	1330	900	6.5	360	50	290	85	22	3.1	1.6	.1
MAR. 25...	1230	28	6.5	120	60	120	120	47	4.3	2.6	.1
MAY 06...	1225	230	6.5	2400	70	970	140	30	7.2	2.5	.1
JUNE 10...	1130	3.4	5.6	120	20	82	81	60	6.2	3.5	.1
JULY 16...	1110	1.8	5.9	220	120	100	61	51	3.5	2.3	.1
AUG. 30...	1045	.29	4.2	140	100	150	130	61	8.4	3.7	.1
SEP. 30...	1200	1.2	6.5	280	140	90	60	51	5.8	1.5	.1

03374470 PATOKA RIVER NEAR ENGLISH, IND.--Continued

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	PERCENT SODIUM	PO- TAS- SIUM (K) (MG/L)	BICAR- BONATE (HCO3) (MG/L)	CAR- BONATE (CO3) (MG/L)	SULFATE (SO4) (MG/L)	CHLO- RIDE (CL) (MG/L)	DIS- SOLVED FLUO- RIDE (F) (MG/L)	NITRATE (NO3) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (SUM OF CONSTITUENTS) (MG/L)
OCT. 28...	4	2.4	210	0	30	5.0	.0	1.9	234	230
DEC. 02...	4	1.4	200	0	27	5.0	.4	3.7	217	222
JAN. 12...	3	.8	172	0	27	4.0	.2	3.5	186	190
FEB. 22...	5	1.5	56	0	19	3.0	.0	2.5	94	87
MAR. 25...	4	1.0	130	0	26	4.0	.1	2.8	166	159
MAY 06...	5	2.0	92	0	25	3.0	.3	2.7	132	124
JUNE 10...	4	1.4	190	0	26	3.0	.2	1.8	213	201
JULY 16...	3	2.7	152	0	22	4.0	.2	2.5	173	169
AUG. 30...	4	2.0	206	0	23	4.8	.1	1.7	219	210
SEP. 30...	2	3.5	160	0	27	3.0	.1	1.0	186	179

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	DIS- SOLVED SOLIDS (TONS PER DAY)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	HARD- NESS (CA,MG) (MG/L)	NON- CAR- BONATE HARD- NESS (MG/L)	ALKA- LINITY AS CACO3 (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TEMP- ERATURE (DEG C)	AIR TEMP- ERATURE (DEG C)
OCT. 28...	2.08	.32	200	31	172	400	7.7	10	14.5	14.5
DEC. 02...	4.63	.30	200	34	164	381	8.0	5	11.5	21.0
JAN. 12...	8.04	.25	170	24	141	335	7.7	5	4.0	3.0
FEB. 22...	228	.13	68	22	46	143	7.3	40	8.5	10.0
MAR. 25...	12.5	.23	130	24	107	274	7.8	10	5.5	5.0
MAY 06...	82.0	.18	100	24	75	204	7.3	80	13.5	15.0
JUNE 10...	1.96	.29	180	24	156	349	7.8	6	19.5	26.0
JULY 16...	.84	.24	140	16	125	295	7.4	15	23.0	28.0
AUG. 30...	.17	.30	190	21	169	367	7.6	3	20.0	25.0
SEP. 30...	.60	.25	150	19	131	310	7.3	5	21.0	28.0

WABASH RIVER BASIN

03374470 PATOKA RIVER NEAR ENGLISH, IND.--Continued

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

MAXIMUM VALUES			MINIMUM VALUES		
JUL	AUG	SEP	JUL	AUG	SEP
---	---	25.0	---	---	21.0
---	---	24.5	---	---	21.0
---	---	25.5	---	---	21.5
---	---	23.0	---	---	21.0
---	---	24.0	---	---	21.0
---	---	23.5	---	---	21.0
---	---	26.0	---	---	22.0
---	---	26.0	---	---	23.0
---	---	25.5	---	---	21.5
---	---	24.0	---	---	21.0
---	---	22.5	---	---	18.0
---	---	21.5	---	---	16.0
---	---	24.0	---	---	17.5
---	---	22.5	---	---	20.0
---	---	---	---	---	---
---	---	---	---	---	---
---	---	25.5	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	---	---	---	---	---
---	21.5	---	---	---	---
---	22.0	---	---	18.0	---
---	23.0	---	---	18.5	---
---	23.0	---	---	19.0	9.0
---	25.0	---	---	20.5	---
---	23.5	---	---	21.5	---
---	---	---	---	---	---

TEMPERATURE (°C) OF WATER, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

[illegible][illegible]

STREAMS TRIBUTARY TO LAKE ERIE

04178100 ST. JOSEPH RIVER AT NEWVILLE, IND.

LOCATION.--Lat 41°22'29", long 85°48'41", In SW¼SW¼ sec.28, T.34 N., R.15 E., Dekalb County, at bridge on county road, 0.6 mile downstream from Ohio-Indiana State Line, 0.8 mile upstream from Christoffel ditch, 2.2 miles downstream from gaging station on Ohio State Highway 249, and 2.5 miles northeast of Newville.

DRAINAGE AREA.--615 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

REMARKS.--Records of discharge are from St. Joseph River near Newville, Ind. (04178000), drainage area, 609 sq mi.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	DIS- CHARGE (CFS)	NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)
NOV. 04...	1215	177	3.3	.28	.95	.140	400	.54	58
JAN. 05...	1630	241	2.4	.13	.00	.140	426	.58	16
MAR. 02...	1100	2060	1.7	.09	.95	.180	194	.26	58
MAY 06...	1030	412	2.9	1.1	1.7	.580	314	.43	194
JULY 13...	1600	61	.40	.01	.25	.460	350	.48	64
AUG. 31...	1000	20	.10	.03	.04	.320	422	.57	68

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL RESI- DUE (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TEMP- ERATURE (DEG C)	AIR TEMP- ERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)
NOV. 04...	458	650	7.5	25	7.5	10.0	9.8	81	1400
JAN. 05...	442	650	--	10	.0	-7.5	11.2	77	3700
MAR. 02...	252	340	7.9	35	.0	1.0	12.0	82	400
MAY 06...	508	500	8.1	30	11.5	16.0	9.0	82	20000
JULY 13...	414	590	7.8	20	27.0	31.0	8.7	110	--
AUG. 31...	490	700	8.2	20	22.5	25.5	6.8	77	2500

04181050 ST. MARYS RIVER NEAR WILSHIRE, OHIO

LOCATION.--Lat 40°45'07", long 84°47'36", in SW $\frac{1}{4}$ NE $\frac{1}{4}$ sec.30, T.3 S., R.1 E., First principal meridian, at bridge on New York, Chicago, and St. Louis Railroad at northeast edge of Wilshire, and 1 mile upstream from Ohio-Indiana State line.

DRAINAGE AREA.--435 sq mi.

PERIOD OF RECORD.--Chemical analyses: July 1969 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	NITRATE (N) (MG/L)	AMMONIA NITRO- GEN (N) (MG/L)	ORGANIC NITRO- GEN (N) (MG/L)	TOTAL PHOS- PHORUS (P) (MG/L)	DIS- SOLVED SOLIDS (RESI- DUE AT 180 C) (MG/L)	DIS- SOLVED SOLIDS (TONS PER AC-FT)	TOTAL NON- FILT- RABLE RESIDUE (MG/L)	TOTAL RESI- DUE (MG/L)
OCT. 08...	1230	.30	.08	1.2	.280	482	.66	98	590
DEC. 02...	1245	2.7	.03	.08	.830	502	.68	46	548
FEB. 04...	1500	3.0	1.2	1.9	.400	160	.22	140	300
APR. 08...	1245	2.6	.05	1.0	.290	492	.67	66	558
JUNE 01...	1230	10	.08	1.4	.610	422	.57	192	614
AUG. 04...	1145	1.0	.02	.92	.390	480	.65	170	650

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	SPECI- FIC CONDU- CTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TEMP- ERATURE (DEG C)	AIR TEMP- ERATURE (DEG C)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COLI. PER 100 ML)
OCT. 08...	670	7.6	23	18.0	27.0	8.2	86	6060
DEC. 02...	750	7.6	15	7.5	17.0	6.4	53	3000
FEB. 04...	260	7.6	50	.5	3.0	14.0	97	24000
APR. 08...	720	8.0	6	9.0	22.0	--	--	560
JUNE 01...	600	7.7	15	18.5	23.0	7.0	74	1900
AUG. 04...	790	7.9	10	20.5	24.0	8.1	89	4700

STREAMS TRIBUTARY TO LAKE ERIE

04183500 MAUMEE RIVER AT ANTWERP, OHIO

LOCATION.--Lat 41°11'56", long 84°44'40", In sec.22, T.3 N., R.1 E., First principal meridian, Paulding County, Ohio, at gaging station on left bank 425 ft downstream from bridge on State Highway 49, 1 mile north of Antwerp, 7 miles downstream from Indiana-State Line, and 10 miles upstream from Marie DeLorme Creek.

DRAINAGE AREA.--2,128 sq mi.

PERIOD OF RECORD.--Chemical analyses: October 1965 to September 1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TOTAL RESI- DUE (MG/L)	SPECI- FIC COND- UCTANCE (MICRO- MHOS)	PH (UNITS)	COLOR (PLAT- INUM- COBALT UNITS)	TEMP- ERATURE (DEG C)	AIR TEMP- ERATURE (DEG C)	PHENOLS (UG/L)	DIS- SOLVED OXYGEN (MG/L)	PER- CENT SATUR- ATION	IMME- DIATE COLI- FORM (COL. PER 100 ML)
OCT.										
08...	560	720	7.8	20	16.0	23.0	2	8.4	84	4000
21...	558	700	8.2	22	13.0	18.5	--	9.7	92	--
NOV.										
04...	560	800	7.8	23	9.0	9.0	0	8.7	75	2200
18...	544	795	7.2	10	7.0	7.5	--	8.8	72	--
DEC.										
02...	498	580	8.0	30	7.0	14.0	1	10.0	82	1400
22...	720	690	--	20	2.5	2.5	--	12.8	94	--
JAN.										
05...	548	840	7.8	12	.0	-11.0	0	12.2	84	7200
19...	620	916	9.3	15	.0	-7.0	--	11.7	80	--
FEB.										
04...	796	1100	7.8	10	.0	1.0	0	14.2	97	900
16...	368	480	7.8	35	.0	.0	--	10.8	74	--
MAR.										
02...	338	400	8.0	25	2.0	4.0	4	12.4	90	2400
23...	420	528	6.9	20	4.0	-1.5	--	11.0	84	--
APR.										
08...	494	660	7.5	12	7.0	12.0	0	14.0	115	420
20...	516	700	8.5	15	15.0	24.0	--	11.7	120	--
MAY										
06...	1040	570	7.9	20	12.0	15.0	1	8.8	81	4600
19...	532	700	9.1	25	22.0	23.0	--	7.6	86	--
JUNE										
01...	540	520	7.9	25	20.5	25.0	--	6.8	75	7000
17...	542	750	8.1	20	28.0	27.5	4	10.3	130	2200
29...	520	700	8.5	20	29.0	33.0	--	--	--	--
JULY										
13...	450	625	8.1	25	27.0	35.0	--	10.2	126	--
21...	454	530	7.8	20	23.0	23.0	--	7.5	86	--
AUG.										
04...	632	800	8.3	10	22.0	24.0	3	13.7	156	2000
17...	526	750	8.3	20	25.0	25.0	--	10.2	121	--
31...	624	800	8.5	25	23.5	28.0	0	8.8	102	2800
SEP.										
14...	--	720	7.5	--	23.0	--	--	--	--	--
14...	550	750	7.9	20	21.5	25.0	--	7.7	86	--

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971--Continued

[illegible]

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

Water-quality partial-record stations in Indiana are regular streamflow stations where sediment data are collected systematically over a period of years for use in hydrologic analyses. Measurements of sediment discharge when correlated with the simultaneous sediment discharges of a continuous sediment station will give a picture of the potentiality of the stream. At numerous times during the water year, adequate samples are collected for determinations of particle size of the suspended sediment and of the bed material.

OHIO RIVER BASIN

0327500 WHITEWATER RIVER NEAR ALPINE, IND. (Lat 39°34'23", long 85°09'27")

PERIOD OF RECORD.--1968-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 21...	1400	13.C	173	98	46
NOV. 19...	1530	9.C	133	11	4.C
DEC. 28...	1516	1.5	295	84	67
JAN. 29...	1200	.C	179	3	1.4
APR. 08...	1045	8.5	309	17	14
MAY 18...	1415	20.5	466	42	53
JUNE 23...	1015	20.5	290	199	156
JULY 23...	1120	23.0	117	41	13
AUG. 27...	1120	16.C	55	23	5.6

03275600 EAST FORK WHITEWATER RIVER AT ABINGTON, IND. (Lat 39°43'57", long 84°57'35")

PERIOD OF RECORD.--1967-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 22...	1400	12.5	68	2	.37
NOV. 23...	1235	2.C	54	2	.29
DEC. 30...	1005	1.C	62	0	.C0
FEB. 02...	1135	.C	36	2	.20
MAR. 05...	1115	2.5	156	18	7.6
APR. 09...	1030	8.C	101	11	3.C
MAY 18...	1010	16.5	214	70	40
JUNE 22...	1230	23.C	62	37	6.2
JULY 26...	1225	22.5	42	24	2.7
SEP. 01...	1035	21.5	27	15	1.1

OHIO RIVER BASIN--Continued

03276700 SOUTH HOGAN CREEK NEAR DILLSBORO, IND. (Lat 39°01'47", long 85°02'17")

PERIOD OF RECORD.--1969-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1969 TO SEPTEMBER 1970

DATE	TIME	TEMP- ERATURE (DEG C)	CIS- CHARGE (CFS)	SLS- PEN- CECED SECI- MENT (MG/L)	SLS- PEN- CECED SECI- MENT DIS- CHARGE (T/DAY)	SUS- SEC. FALL DIAM. % FINER THAN .002 MM	SUS- SEC. FALL DIAM. % FINER THAN .004 MM	SUS- SEC. FALL DIAM. % FINER THAN .006 MM	SUS- SEC. FALL DIAM. % FINER THAN .016 MM	SUS- SEC. FALL DIAM. % FINER THAN .031 MM	SUS- SEC. FALL DIAM. % FINER THAN .062 MM
APR. 30...	1340	15.0	417	250	281	63	75	84	93	99	100

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	CIS- CHARGE (CFS)	SLS- PEN- CECED SECI- MENT (MG/L)	SLS- PEN- CECED SECI- MENT DIS- CHARGE (T/DAY)
OCT. 15...	1145	16.0	24	48	3.2
29...	1040	15.5	3.9	72	.77
NOV. 25...	1045	.0	9.4	50	1.3
DEC. 23...	1130	8.0	312	260	215
JAN. 27...	1120	.0	12	30	.99
FEB. 24...	1215	3.5	72	28	5.5
MAR. 17...	1215	5.5	31	33	2.8
APR. 06...	1500	5.5	18	5	.26
28...	1130	15.5	4.5	37	.45
MAY 14...	0850	13.0	9.5	22	.57
27...	1100	--	6.1	15	.25
JUNE 17...	1430	25.5	3.8	52	.54
23...	1115	24.0	2.2	35	.22
JULY 21...	1215	26.0	1.2	28	.09
28...	1115	23.0	.54	19	.03
AUG. 25...	1440	25.5	2.7	31	.23
SEP. 30...	1615	23.5	9.1	25	.62

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

OHIO RIVER BASIN--Continued

03303000 BLUE RIVER NEAR WHITE CLOUD, IND. (Lat 39°14'04", long 86°13'38")

PERIOD OF RECORD,--1968-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- CE- SED- MENT (MG/L)	SUS- PEN- CE- SED- MENT DIS- CHARGE (T/DAY)
NOV.					
05...	1150	12.0	194	8	4.2
DEC.					
11...	1150	10.5	167	33	15
JAN.					
14...	1515	12.0	2680	218	1580
FEB.					
18...	1520	6.5	3390	489	4480
MAY					
05...	1400	15.0	267	14	10
JUNE					
10...	1100	23.0	158	18	7.7
JULY					
15...	1130	15.5	154	88	46
AUG.					
20...	0950	20.0	76	28	5.8
SEP.					
21...	1215	16.0	1040	226	635

03303300 MIDDLE FORK ANDERSON RIVER AT BRISTOW, IND. (Lat 38°08'19", long 86°43'16")

PERIOD OF RECORD,--1970-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- CE- SED- MENT (MG/L)	SUS- PEN- CE- SED- MENT DIS- CHARGE (T/DAY)
OCT.					
27...	1045	16.0	11	14	.42
DEC.					
01...	1120	13.0	15	18	.77
JAN.					
11...	1205	2.0	29	16	1.3
FEB.					
16...	1120	.0	80	21	4.5
MAR.					
30...	1130	7.5	27	14	1.0
MAY					
05...	1115	15.0	20	13	.72
JUNE					
14...	1130	23.5	16	47	2.1
JULY					
15...	1030	23.0	26	224	16
AUG.					
27...	1000	21.0	4.5	238	2.9
SEP.					
28...	1145	21.0	10	20	.55

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SEC. FALL DIAM. % FINER THAN .004 MM	SUS. SEC. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SEC. FALL DIAM. % FINER THAN .031 MM	SUS. SEC. FALL DIAM. % FINER THAN .062 MM	SUS. SEC. FALL DIAM. % FINER THAN .125 MM
AUG.								
27...	1000	96	98	99	99	99	99	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

341

OHIO RIVER BASIN--Continued

03322900 WABASH RIVER AT LINN GROVE, IND. (Lat 40°39'22", long 85°01'58")

PERIOD OF RECORD.--1971.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENEC SEDI- MENT (MG/L)	SUS- PENEC SEDI- MENT CHARGE (T/DAY)
JULY 01...	1015	24.C	103	180	50
AUG. 11...	1035	23.C	28	115	8.5
SEP. 09...	1445	24.C	108	135	39

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SUS. SEC. FALL DIAM. % FINER THAN .002 MM	SUS. SEC. FALL DIAM. % FINER THAN .004 MM	SUS. SEC. FALL DIAM. % FINER THAN .008 MM	SUS. SEC. FALL DIAM. % FINER THAN .016 MM	SUS. SEC. FALL DIAM. % FINER THAN .031 MM	SUS. SEC. FALL DIAM. % FINER THAN .062 MM	SUS. SEC. FALL DIAM. % FINER THAN .125 MM
SEP. 09...	1445	72	87	93	95	97	98	100

03323000 WABASH RIVER AT BLUFFTON, IND. (Lat 40°44'30", long 85°10'19")

PERIOD OF RECORD.--1968-70.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENEC SEDI- MENT (MG/L)	SUS- PENEC SEDI- MENT CHARGE (T/DAY)
DEC. 03...	0925	7.5	32	172	15
JAN. 07...	1115	.0	201	313	170
FEB. 12...	1025	.0	117	114	36
MAR. 18...	0930	2.5	677	94	223
JULY 01...	0745	24.5	147	212	84
AUG. 06...	0825	20.5	21	57	3.3
SEP. 09...	1245	23.C	181	156	76

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SUS. SEC. FALL DIAM. % FINER THAN .002 MM	SUS. SEC. FALL DIAM. % FINER THAN .004 MM	SUS. SEC. FALL DIAM. % FINER THAN .008 MM	SUS. SEC. FALL DIAM. % FINER THAN .016 MM	SUS. SEC. FALL DIAM. % FINER THAN .031 MM	SUS. SEC. FALL DIAM. % FINER THAN .062 MM	SUS. SEC. FALL DIAM. % FINER THAN .125 MM	SUS. SEC. FALL DIAM. % FINER THAN .250 MM	SUS. SEC. FALL DIAM. % FINER THAN .500 MM
JAN. 07...	1115	85	88	91	93	96	97	98	98	100

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

OHIO RIVER BASIN--Continued

03324000 LITTLE RIVER NEAR HUNTINGTON, IND. (Lat 40°54'14", long 85°24'22")

PERIOD OF RECORD.--1970-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENEC SEDI- MENT (MG/L)	SUS- PENEC SECTI- MENT DIS- CHARGE (T/CAY)
NOV.					
13...	1310	5.2	81	31	6.6
JAN.					
19...	1445	.5	31	58	4.5
MAY					
05...	1130	10.5	38	32	3.4
06...	1138	11.5	644	720	1250
JUNE					
09...	1110	17.0	132	127	45
JULY					
12...	1410	21.0	95	198	51
AUG.					
25...	1425	24.5	16	56	2.5
SEP.					
30...	1515	21.0	48	40	5.2

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
MAY									
06...	1138	52	65	75	88	93	98	99	100

03324300 SALAMONIE RIVER NEAR WARREN, IND. (Lat 40°42'45", long 85°27'13")

PERIOD OF RECORD.--1964-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENEC SEDI- MENT (MG/L)	SUS- PENEC SECTI- MENT DIS- CHARGE (T/CAY)
OCT.					
08...	0950	17.0	14	18	.69
NOV.					
17...	1230	5.0	45	54	6.6
JAN.					
18...	1300	.5	54	72	11
FEB.					
24...	1320	1.5	2550	125	996
MAY					
05...	1630	13.0	66	22	4.0
JULY					
14...	1010	21.5	154	130	54
AUG.					
25...	1640	24.5	40	51	5.6

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM
FEB.									
24...	1320	81	89	93	96	98	99	99	100

OHIO RIVER BASIN--Continued

03329700 DEER CREEK NEAR DELPHI, IND. (Lat 40°35'25", long 86°37'15")

PERIOD OF RECORD.--1969-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- CEC SEDI- MENT (MG/L)	SUS- PEN- CEC SEDI- MENT DIS- CHARGE (T/DAY)
OCT.					
01...	1405	15.C	51	56	13
NOV.					
04...	0900	6.C	271	178	130
DEC.					
02...	0920	9.0	252	168	114
FEB.					
12...	1250	.5	97	98	26
MAR.					
22...	1430	7.C	289	24	15
APR.					
20...	1030	15.0	63	26	4.5
MAY					
25...	1300	14.0	2570	1800	12500
JULY					
01...	1500	30.C	38	53	5.5
SEP.					
19...	1545	22.C	35	15	2.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SLS. SEC. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
MAY											
25...	1300	55	72	81	85	88	89	91	92	97	100

03331500 TIPPECANOE RIVER NEAR ORA, IND. (Lat 41°09'26", long 86°33'49")

PERIOD OF RECORD.--1968-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- CEC SEDI- MENT (MG/L)	SLS- PEN- CEC SEDI- MENT DIS- CHARGE (T/DAY)
OCT.					
08...	1210	16.5	424	52	60
NOV.					
05...	1400	--	1130	41	125
MAR.					
17...	1400	--	1680	23	104
APR.					
22...	1000	12.0	514	12	17
MAY					
26...	1230	13.C	374	49	49
JULY					
01...	1300	--	223	37	22
AUG.					
04...	1430	22.C	178	14	6.7

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

OHIO RIVER BASIN--Continued

03335000 WILDCAT CREEK NEAR LAFAYETTE, IND. (Lat 40°26'26", long 86°49'46")

PERIOD OF RECORD.--1968-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SOLI- D MATERIAL (MG/L)	SUS- PENDED SOLI- D MATERIAL (T/DAY)
FEB. 19...	1100	1.5	4435	983	11800
MAR. 30...	1020	4.5	497	76	102
APR. 27...	1430	12.0	239	146	94
JUNE 10...	1500	22.5	274	65	51
JULY 01...	1720	26.5	203	91	50
AUG. 13...	1520	23.0	165	99	44
SEP. 16...	1330	20.0	153	16	6.6

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM
FEB. 19...	1100	42	50	57	66	76	81	87	94	100

03340000 SUGAR CREEK NEAR BYRON, IND. (Lat 39°55'52", long 87°07'33")

PERIOD OF RECORD.--1968-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SOLI- D MATERIAL (MG/L)	SUS- PENDED SOLI- D MATERIAL (T/DAY)
OCT. 27...	1150	15.0	171	76	35
DEC. 07...	1345	1.0	251	30	20
JAN. 21...	1530	.0	122	82	27
FEB. 24...	1430	2.0	1810	304	1490
MAR. 24...	0945	4.0	625	50	84
APR. 28...	1450	15.0	162	7	3.1
JUNE 15...	1235	23.0	1530	350	1450
AUG. 17...	1510	25.0	207	56	54

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SED. FALL DIAM. % FINER THAN .062 MM	SUS. SED. FALL DIAM. % FINER THAN .125 MM	SUS. SED. FALL DIAM. % FINER THAN .250 MM	SUS. SED. FALL DIAM. % FINER THAN .500 MM	SUS. SED. FALL DIAM. % FINER THAN 1.00 MM
FEB. 24...	1430	58	60	66	71	77	80	82	85	93	100
JUNE 15...	1235	57	64	72	83	94	96	97	100	--	--

OHIO RIVER BASIN--Continued

03348500 WHITE RIVER NEAR NOBLESVILLE, IND. (Lat 40°07'46", long 85°57'46")

PERIOD OF RECORD.--1968-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
OCT. 28...	1055	15.5	148	12	4.8
DEC. 01...	1535	9.5	269	130	94
SEP. 01...	1045	24.0	124	31	10

033532-- EAGLE CREEK AT ZIONSVILLE, IND. (Lat 39°56'56", long 86°15'22")

PERIOD OF RECORD.--1969-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
MAY 14...	1015	14.0	38	66	6.6
JULY 09...	1150	24.5	8.3	42	.94

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

OHIO RIVER BASIN--Continued

03357500 BIG WALNUT CREEK NEAR REELSVILLE, IND. (Lat 39°32'11", long 86°58'35")

PERIOD OF RECORD.--1969-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (CEG C)	DIS- CHARGE (CFS)	SUS- PENDEC SEDI- MENT (MG/L)	SLS- PENDEC SECI- MENT CIS- CHARGE (T/CAY)
OCT.					
13...	1240	16.C	40	30	3.2
NOV.					
19...	1300	7.5	56	52	7.5
DEC.					
23...	1220	5.C	231	81	51
FEB.					
02...	1415	.C	36	76	7.4
05...	1400	.C	4480	978	11800
MAR.					
17...	1315	5.5	524	103	146
APR.					
20...	1300	17.C	102	14	3.5
JUNE					
01...	1055	20.0	192	101	52
JULY					
06...	1230	26.C	67	31	5.7
ALG.					
19...	1150	24.C	54	46	6.7
SEP.					
14...	1130	22.C	30	43	3.6

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SUS. SED. FALL DIAM. % FINER THAN .002 MM	SUS. SED. FALL DIAM. % FINER THAN .004 MM	SUS. SED. FALL DIAM. % FINER THAN .008 MM	SUS. SED. FALL DIAM. % FINER THAN .016 MM	SUS. SED. FALL DIAM. % FINER THAN .031 MM	SUS. SEC. FALL SIEVE DIAM. % FINER THAN .062 MM	SUS. SEC. FALL SIEVE DIAM. % FINER THAN .125 MM	SUS. SEC. FALL SIEVE DIAM. % FINER THAN .250 MM	SUS. SEC. FALL SIEVE DIAM. % FINER THAN .500 MM
FEB.										
05...	1400	35	45	56	67	74	87	92	96	100

OHIO RIVER BASIN--Continued

03358000 MILL CREEK NEAR CATARACT, IND. (Lat 39°26'00", long 86°45'48")

PERIOD OF RECORD.--1969-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SOLI- D MAT- TER (MG/L)	SUS- PENDED SOLI- D MAT- TER (T/DAY)
OCT.					
12...	1430	13.5	13	23	.83
NOV.					
16...	1400	6.5	17	34	1.6
DEC.					
22...	1445	5.0	287	64	50
FEB.					
03...	1115	.0	15	80	3.3
05...	1000	.0	4064	439	4820
MAR.					
09...	1345	--	223	24	14
APR.					
12...	1330	15.5	63	37	6.4
MAY					
24...	1345	17.0	50	81	11
JUNE					
29...	1310	26.0	25	129	6.5
AUG.					
19...	1400	23.5	6.5	81	1.4
SEP.					
13...	1130	--	10	68	2.0

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	SUS- PENDED SOLI- D MAT- TER (MG/L)	SUS- PENDED SOLI- D MAT- TER (T/DAY)	SUS- PENDED SOLI- D MAT- TER (MG/L)	SUS- PENDED SOLI- D MAT- TER (T/DAY)	SUS- PENDED SOLI- D MAT- TER (MG/L)	SUS- PENDED SOLI- D MAT- TER (T/DAY)	SUS- PENDED SOLI- D MAT- TER (MG/L)	SUS- PENDED SOLI- D MAT- TER (T/DAY)
10...	1000	50	62	71	77	84	86	89	95

03361500 BIG BLUE RIVER AT SHELBYVILLE, IND. (Lat 39°31'45", long 85°46'55")

PERIOD OF RECORD.--1968-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SOLI- D MAT- TER (MG/L)	SUS- PENDED SOLI- D MAT- TER (T/DAY)
NOV.					
17...	1235	6.0	125	62	21
DEC.					
09...	1450	6.0	130	42	15
JAN.					
14...	1720	4.0	417	90	101
FEB.					
24...	1410	2.0	1580	140	597
MAR.					
29...	1410	8.0	275	30	23
APR.					
28...	1415	15.0	163	32	14
JUNE					
01...	1345	15.0	232	70	44
JULY					
08...	1615	26.0	111	34	10
AUG.					
10...	1735	26.0	82	14	3.1
SEP.					
16...	1425	20.0	108	42	12

ANALYSES OF SAMPLES COLLECTED AT WATER-QUALITY PARTIAL-RECORD STATIONS

OHIO RIVER BASIN--Continued

03362500 SUGAR CREEK NEAR EDINBURG, IND. (Lat 39°21'39", long 85°59'51")

PERIOD OF RECORD.--1968-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
NOV. 03...	1325	10.0	80	64	14
DEC. 08...	1600	4.0	116	24	7.5
JAN. 18...	1455	1.0	232	64	40
FEB. 22...	1315	3.0	4650	618	7760
MAR. 22...	1505	6.0	549	50	74
APR. 30...	1435	15.0	125	12	4.0
JUNE 02...	1450	21.0	206	42	23
JULY 12...	1615	26.0	134	56	20
AUG. 12...	1825	26.0	61	29	4.8
SEP. 13...	1545	22.0	66	35	6.2

03363500 FLATROCK RIVER AT ST. PAUL, IND. (Lat 39°25'03", long 85°38'03")

PERIOD OF RECORD.--1968-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PENDED SEDI- MENT (MG/L)	SUS- PENDED SEDI- MENT DIS- CHARGE (T/DAY)
NOV. 09...	1615	10.0	61	88	14
DEC. 09...	1645	5.0	78	20	4.2
JAN. 14...	1500	3.0	340	86	75
FEB. 24...	1715	2.0	1230	104	345
MAR. 29...	1630	8.0	195	34	16
APR. 28...	1635	16.0	93	14	3.5
JUNE 01...	1700	20.0	124	74	25
JULY 08...	1515	27.0	63	334	58
AUG. 11...	1430	26.0	31	17	1.5
SEP. 15...	1245	22.0	33	28	2.6

OHIO RIVER BASIN--Continued

03365000 SAND CREEK NEAR BREWERSVILLE, IND. (Lat 39°05'03", long 85°39'32")

PERIOD OF RECORD.--1969-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- CEC SECI- MENT (MG/L)	SUS- PEN- CEC SEDI- MENT DIS- CHARGE (T/DAY)
NOV.					
06...	1420	10.0	9.2	6	.15
DEC.					
11...	1445	7.0	11	4	.12
JAN.					
12...	1540	1.0	44	4	.48
FEB.					
25...	1220	4.0	260	64	.45
MAR.					
23...	1700	6.0	148	12	4.8
MAY					
03...	1320	15.0	21	6	.35
JUNE					
04...	1355	25.0	29	70	5.5
JULY					
20...	1110	23.0	22	60	3.6
ALG.					
16...	1830	26.0	3.9	30	.32
SEP.					
15...	1000	20.0	21	89	5.1

03366500 MUSCATATUCK RIVER NEAR DEPUTY, IND. (Lat 38°48'15", long 85°40'26")

PERIOD OF RECORD.--1968-71.

WATER QUALITY DATA, WATER YEAR OCTOBER 1970 TO SEPTEMBER 1971

DATE	TIME	TEMP- ERATURE (DEG C)	DIS- CHARGE (CFS)	SUS- PEN- CEC SECI- MENT (MG/L)	SUS- PEN- CEC SEDI- MENT DIS- CHARGE (T/DAY)
NOV.					
05...	1130	10.0	14	6	.24
DEC.					
10...	1110	5.0	25	15	1.0
JAN.					
13...	1130	2.0	85	20	4.6
FEB.					
26...	1330	8.0	419	40	.45
MAR.					
24...	1050	4.0	189	12	6.1
MAY					
04...	1030	14.0	35	8	.77
JUNE					
03...	1145	21.0	23	19	1.2
JULY					
20...	1945	--	375	270	276
ALG.					
17...	1810	24.0	14	20	.77
SEP.					
14...	1010	15.0	55	52	7.8

	Page		Page
Aboite Creek near Aboite.....	264	Cass Lake near Shipshewanna, records available on.....	271
Accuracy of data.....	15,16	Cedar Creek at Auburn.....	234
Acre-foot, definition of.....	3	at Waterloo.....	266
Adams Lake near Wolcottville, records available on.....	272	near Cedarville.....	235
Anderson River basin, gaging-station records in.....	47	Cedar Lake (Illinois River basin) at Cedar Lake,	
water-quality partial-record stations in.....	340	records available on.....	273
Appleman Lake, lake map available on.....	274	Cedar Lake (Wabash River basin) at Tri-Lakes,	
Atwood Lake near Wolcottville, records available on.....	272	records available on.....	270
Back Creek at Leesville.....	186	Cedar Lake (streams tributary to Lake Erie) near Waterloo,	
Ball Lake near Hamilton, records available on.....	272	records available on.....	272
Banning Lake near North Webster, records available on.....	270	Cedar Lake (streams tributary to Lake Michigan) near	
Barr Lake, lake map available on.....	274	Ontario, records available on.....	271
Bartley Lake, lake map available on.....	274	Center Lake at Warsaw, records available on.....	270
Barton Lake, lake map available on.....	274	Center Lake, lake map available on.....	274
Bass Lake (Illinois River basin) at Bass Lake,		Cfs day, definition of.....	3
records available on.....	273	Chippewanuck Creek near Rochester.....	265
Bass Lake (streams tributary to Lake Michigan) near Angola,		Cicero Creek at Noblesville.....	128
records available on.....	271	at Tipton.....	266
Baugh Lake near Washington Center, records available on.....	270	near Arcadia.....	124
Bayou drain basin, records available on lakes in.....	270	Clear Creek near Harrodsburg.....	193
Beanblossom Creek at Beanblossom.....	149	Clear Lake (Illinois River basin) at LaPorte,	
at Dolan.....	152	records available on.....	273
Bean Creek at Indianapolis.....	140	Clear Lake (streams tributary to Lake Erie) at Clear Lake,	
Bear Creek near Trevelac.....	150	records available on.....	272
Bear Lake at Wolflake, records available on.....	272	Clifty Creek at Hartsville.....	173,317-320
Beaver Creek Reservoir near Jasper.....	201	at Sandusky.....	266
Beaver Dam Lake near Silver Lake, records available on.....	271	Cline Lake, lake map available on.....	274
Bell Lake, lake map available on.....	274	Coal Creek at Coal Creek.....	94
Berlin Court ditch near Nappanee.....	269	Coliform, definition of.....	3
Bice ditch near South Marlon.....	257	Collection and computation of data, surface-water.....	10-15
Big Barbee Lake near North Webster, records available on.....	270	Collection and examination of data, water-quality.....	17,18
Big Blue River (head of East Fork White River) at Carthage.....	162	Contents, definition of.....	3
at Shelbyville.....	163,347	Control, definition of.....	3
near New Castle.....	266	Cook Lake, lake map available on.....	274
Big Chapman Lake near Warsaw, records available on.....	270	Cooperation.....	2
Big Creek (tributary to Tippecanoe River) near Monticello.....	265	Crane Lake, lake map available on.....	274
Big Creek near Wadsworth.....	210	Cree Lake near Kendallville, records available on.....	272
Big Lake near Wolflake, records available on.....	270	Crooked Creek (tributary to Wabash River) near Logansport.....	265
Big Lick near Hartford City.....	62	near Royal Center.....	265
Big Long Lake near Stroh, records available on.....	271	Crooked Creek (tributary to White River) at Indianapolis.....	131
Big Monon Creek near Francesville.....	79	Crooked Lake (stream tributary to Lake Michigan) at	
Big Monon Creek near Medaryville.....	265	Crooked Lake, records available on.....	271
Big Otter Lake near Fremont, records available on.....	271	Crooked Lake (Wabash River basin) near Wolflake,	
Big Pine Creek near Williamsport.....	90,296-300	records available on.....	270
Big Raccoon Creek at Coxville.....	103	Crosley Lake, lake map available on.....	273
at Ferndale.....	101	Crystal Lake near Atwood, records available on.....	270
near Fincastle.....	99,301-305	Cubic feet per second, definition of.....	4
Big Run at Butler.....	266	Cubic feet per second per square mile, definition of.....	3
Big Shawnee Creek near Attica.....	265	Dalecarlia Lake near Creston, records available on.....	273
Big Turkey Lake at Stroh, records available on.....	271	Dallas Lake near Wolcottville, records available on.....	272
Big Walnut (head of Eel River) near Reelsville.....	155,346	Dausman ditch near Bremen.....	267
Biochemical oxygen demand, definition of.....	3	Deam Lake near Sellersburg.....	40
Bischoff Reservoir, Lake map available on.....	274	Deep River at Lake George Outlet at Hobart.....	215
Bixler Lake at Kendallville, records available on.....	272	Deer Creek (tributary to Wabash River) near Delphi.....	74,343
Black Lake, lake map available on.....	274	near Lincoln.....	265
Blackman Lake near Wolcottville, records available on.....	272	Deer Creek (tributary to Hill Creek) near Putnamville.....	159
Blue Creek near Pleasant Mills.....	266	Deer Lake, lake map available on.....	274
Blue Lake near Chubbuck, records available on.....	270	Definition of terms.....	3-8
Blue River (tributary to Ohio River) basin,		Dewart Lake near Leesburg, records available on.....	272
gaging-station records in.....	45,46	Diamond Lake (streams tributary to Lake Michigan) near	
low-flow partial-record stations in.....	264	Wawaka, records available on.....	272
water-quality partial-record stations in.....	340	Diamond Lake (Wabash River basin) near Silver Lake,	
Blue River at Fredericksburg.....	45	records available on.....	271
near White Cloud.....	46,340	Discharge, definition of.....	4
Boner Lake, lake map available on.....	274	Dixon Lake, lake map available on.....	274
Bonpas Creek at Browns, Ill.....	209	Dock Lake, lake map available on.....	274
Bontrager ditch near Topeka.....	268	Downstream order and station numbers.....	9
Bowen Lake (streams tributary to Lake Michigan),		Drainage area, definition of.....	4
lake map available on.....	274	Driftwood River (continuation of Big Blue River) near	
Bower Lake near Pleasant Lake, records available on.....	271	Edinburg.....	168
Bristol Lake, lake map available on.....	274	Dry Run at Brimfield.....	268
Brouillets Creek near Universal.....	104	Duck Creek near Strawtown.....	266
Brown Lake, lake map available on.....	274	Duely Lake near Cromwell, records available on.....	272
Bruce Lake at Lake Bruce, records available on.....	271	Dunton Lake, lake map available on.....	274
Brush Creek near Nebraska.....	181	Eagle Creek at Indianapolis.....	143
Buck Creek (tributary to Ohio River) basin,		at Zionsville.....	141,345
gaging-station records in.....	42	Eagle Creek Reservoir near Indianapolis.....	142
Buck Creek near New Middletown.....	42	Eagle Lake (Illinois River basin) near Ober,	
Buck Creek (tributary to Sugar Creek) at Action.....	165	records available on.....	273
near New Bethel.....	266	Eagle Lake (streams tributary to Lake Michigan) near	
Buck Creek (tributary to White River) near Muncie.....	118	Kimmel, records available on.....	272
Buck Lake, lake map available on.....	274	East Buck Creek ditch near LaGrange.....	268
Burns ditch at Gary.....	217	East Fly Creek near LaGrange.....	268
Busseron Creek near Carlisle.....	112	East Fork Coal Creek near Hillsboro.....	93
near Hymers.....	107	near Veedersburg.....	265
near Sullivan.....	110	East Fork White Lick Creek at Mooresville.....	266
Buttermilk Creek near Paxton.....	111	East Fork White River at Columbus.....	171
Cagles Mill Lake near Manhattan.....	157	at Seymour.....	175,321-325
Caldwell Lake, lake map available on.....	274	at Shoals.....	196
Campbells Run near Rossville.....	265	near Bedford.....	185
Carpenter Creek at Egypt.....	259	East Fork Whitewater River at Abington.....	34,277-279,338
Carr Lake near Claypool, records available on.....	270	at Brookville.....	35

	Page		Page
East Fork Whitewater River at Richmond.....	33	Illinois River basin, gaging-station records in.....	241-262
Eel River (tributary to Wabash River) at Mexico.....	265	maps available on lakes in.....	274
at North Manchester.....	68	records available on lakes in.....	272, 273
near Columbia City.....	264	Indiana Lake near Bristol, records available on.....	272
near Logansport.....	70, 286-289	Indian Creek (tributary to East Fork White River) near Springville.....	195
Eel River (tributary to White River) at Bowling Green.....	160	Indian Creek (tributary to Ohio River) basin, gaging-station records in.....	43, 44
Eliza Lake near Beatrice, records available on.....	273	Indian Creek near Corydon.....	44
Elkhart River at Goshen.....	229	Indian Creek (tributary to Tippecanoe River) near Thornhope.....	265
Elkhart River near Millersburg.....	269	Indian Kentuck Creek basin, gaging-station records in.....	39
Embarras River at Ste. Marie, Ill.....	114	Indian Kentuck Creek near Canaan.....	39
Emma Lake near Emma, records available on.....	271	Indian Lake near Corunna, records available on.....	272
Engle Lake near Ligonier, records available on.....	272	Introduction.....	1
Eve Lake, lake map available on.....	274	Irish Lake near North Webster, records available on.....	270
Everett Lake near Levert, records available on.....	270	Iroquois River at Iroquois, Ill.....	261
Fall Creek at Millersville.....	136	at Rensselaer.....	256
near Fortville.....	133	at Rosebud.....	254
Fawn River at Orland.....	268	near Foreman.....	260
Ferdinand Lake, lake map available on.....	274	near North Marion.....	255
Fish Creek at Hamilton.....	231	J. C. Murphy Lake near Morocco, records available on.....	273
near Artie.....	266	James Lake at Oswego, records available on.....	270
Fish Lake (streams tributary to Lake Michigan), lake map available on.....	274	Jimmerson Lake at Nevada Mills, records available on.....	271
Fish Lake (streams tributary to Lake Michigan) near Plato, records available on.....	271	Jones Lake near Cosperville, records available on.....	272
Fish Lake (streams tributary to Lake Michigan) near Scott, records available on.....	271	Kankakee River at Davis.....	243
Fish Lake (Wabash River basin) near Warsaw, records available on.....	270	at Duns Bridge.....	247
Flatbelly Lake near Syracuse, records available on.....	272	at Momence, Ill.....	253
Flat Creek near Ottwell.....	204	at Shelby.....	249
Flat Lake, lake map available on.....	274	near North Liberty.....	241
Flatrock Creek near Townley.....	267	Killbuck Creek near Gaston.....	120
Flatrock River at Columbus.....	170	King Lake near Delong, records available on.....	271
at Rushville.....	266	Kingsbury Creek near LaPorte.....	242
at St. Paul.....	169, 348	Knapp Lake near Washington Center, records available on.....	272
Fletcher Lake at Fletcher, records available on.....	271	Kokomo Creek near Kokomo.....	83
Flint Lake near Valparaiso, records available on.....	273	Koontz Lake at Koontz Lake, records available on.....	273
Forker Creek near Burr Oak.....	227	Kuhn Lake near North Webster, records available on.....	270
Fox Lake near Angola, records available on.....	271	Kunkel Lake, lake map available on.....	274
Franke Lake, lake map available on.....	274	Lake Anne, lake map available on.....	274
Gage height, definition of.....	4	Lake Freeman, lake map available on.....	274
Gaging station, definition of.....	21	Lake Gage at Panama, records available on.....	271
Galena River near LaPorte.....	221	Lake George (tributary to Burns Waterway) at Hobart, records available on.....	271
Geist Reservoir near Oaklandon.....	134	Lake George (tributary to Fawn River) at Jamestown, records available on.....	271
Gilbert Lake (Illinois River basin), lake map available on.....	274	Lake James at Lake James, records available on.....	271
Gilbert Lake (Wabash River basin) near Washington Center, records available on.....	270	Lake Lemon near Bloomington.....	151
Golden Lake near Pleasant Lake, records available on.....	271	Lake Manitou at Rochester, records available on.....	271
Goose Lake near Loran, records available on.....	270	Lake of the Woods (Illinois River basin) near Bremen, records available on.....	273
Gurdy Lake near Cromwell, records available on.....	272	Lake of the Woods (streams tributary to Lake Michigan) near Helmer, records available on.....	271
Graham Creek near Vernon.....	176	Lake Pleasant near Nevada Mills, records available on.....	271
Graph of comparison of discharge.....	23	Lake Shafter, lake map available on.....	274
Great Miami River basin, gaging-station records in.....	29-36	Lake 16, lake map available on.....	274
low-flow partial-record stations in.....	264	Langenbaum Lake near Monterey, records available on.....	271
water-quality records in.....	277-279	Larwill Lake, lake map available on.....	274
water-quality partial-record stations in.....	338	Latta Lake near Rome City, records available on.....	272
Greens Fork at Greens Fork.....	26	Laughery Creek basin, gaging-station records in..... records available on lakes in.....	38 270
Gretzinger ditch near Kendallville.....	268	Laughery Creek near Farmers Retreat.....	38
Hackenberg Lake near Wolcottville, records available on.....	272	Lawrence Lake, lake map available on.....	274
Hall Creek near St. Anthony.....	203	Lenape Lake, lake map available on.....	274
Hamilton Lake at Hamilton, records available on.....	272	Lick Creek at Indianapolis.....	145
Handy Lake, lake map available on.....	274	Limberlost Creek at Geneva.....	264
Harber ditch at Fort Wayne.....	238	Lime Lake (tributary to Crooked Creek) at Panama, records available on.....	271
Harberts Creek near Madison.....	177	Lime Lake (tributary to Fawn River), lake map available on.....	274
Hardness, definition of.....	4	Lime Lake Outlet at Panama.....	222
Harper Lake near Washington Center, records available on.....	272	Lincoln Park Lake, lake map available on.....	274
Hart ditch at Munster.....	211	List of surface-water gaging-stations.....	IV-X
Hartz Lake, lake map available on.....	274	of water-quality stations.....	XI
Haw Creek near Clifford.....	172	Little Barbee Lake near North Webster, records available on.....	270
Heaton Lake near Elkhart, records available on.....	272	Little Calumet River at Gary.....	216
High Lake near Wolf Lake, records available on.....	272	at Munster.....	212
Hill Lake near Silver Lake, records available on.....	271	at Porter.....	218
Hindman Lake near Washington Center, records available on.....	272	at South Holland, Ill.....	214
Hinkle Creek near Cicero.....	126	Little Chapman Lake near Warsaw, records available on.....	270
Hoffman Creek at Townley.....	267	Little Cicero Creek near Arcadia.....	125
Hoffman Lake at Atwood, records available on.....	270	Little Eagle Creek at Speedway.....	144
Hogan Creek basin, gaging-station records in.....	37	Little Elkhart River near Middlebury.....	268
water-quality records in.....	280, 281	at Bristol.....	268
water-quality partial-record stations in.....	339	at Middlebury.....	268
Hogback Lake near Angola, records available on.....	271	Little Indian Creek (tributary to Indian Creek) near Galena, Little Indian Creek (tributary to Tippecanoe River) near Royal Center.....	43 78
Hog Lake (tributary to Galena River), lake map available on.....	274	Little Kankakee River near Hill Creek.....	267
Hog Lake (tributary to Prairie River), lake map available on.....	274	Little Long Lake at Kendallville, records available on.....	272
Holem Lake, lake map available on.....	274	Little Otter Lake near Fremont, records available on.....	271
Holthouse ditch at Decatur.....	267	Little Pike Lake, lake map available on.....	274
Honey Creek near Terre Haute.....	265	Little Raccoon Creek near Catlin.....	102
Horseshoe Lake near Washington Center, records available on.....	270	Little River near Huntington.....	34, 342
Houk ditch near Hassen Cassel.....	267	Little Turkey Lake at Elmira, records available on.....	271
Hovey Lake near Mt. Vernon, records available on.....	270	Little Turkey Lake, lake map available on.....	274
Howard Lake near Angola, records available on.....	271	Little Vermilion River near Newport.....	95
Hudson Lake at Hudson Lake, records available on.....	272	Little Williams Creek at Connersville.....	31
Hunter Lake near Middlebury, records available on.....	271		
Huntington Lake at Huntington.....	52		
Huston ditch near Wawaka.....	268		
Hydrological conditions.....	22		

	Page		Page
Little Wilson Lake near Larwill, records available on.....	270	Palestine Lake at Palestine, records available on.....	270
Loblolly Creek at Geneva.....	264	Papakeechee Lake near Syracuse, records available on.....	272
Long Lake (Wabash River basin) at Laketon, records available on.....	270	Partial-record stations, definition of.....	5
Long Lake (streams tributary to Lake Michigan) at Moonlight, records available on.....	271	Partial size, definition of.....	5
Long Lake (streams tributary to Lake Michigan) near Burr Oak, records available on.....	272	Patoka River at Jasper.....	202
Long Lake (streams tributary to Lake Erie) near Ray, records available on.....	272	at Winslow.....	205
Long Lake (Illinois River basin) near Valparaiso, records available on.....	273	near Ellsworth.....	200
Loon Lake (Wabash River basin) at Ormas, records available on.....	270	near English.....	330-333
Loon Lake (streams tributary to Lake Michigan) near Angola, records available on.....	271	near Hardinsburg.....	199
Loon Lake (Wabash River basin) near Silver Lake, records available on.....	271	near Princeton.....	207
Lost Lake near Culver, records available on.....	271	Pigeon Creek basin, gaging-station records in.....	40
Lost River near West Baden Springs.....	197	Pigeon Creek at Evansville.....	48
Lower Fish Lake near Stillwell, records available on.....	273	Pigeon Creek (tributary to Lake Michigan) at Hogback Lake Outlet near Angola.....	223
Lower Long Lake near Albion, records available on.....	272	Pigeon Creek east of Angola.....	268
Lukens Lake near Disko, records available on.....	270	Pigeon Lake near Angola, records available on.....	271
McClish Lake near Helmer, records available on.....	271	Pigeon Lake, lake map available on.....	274
McClures Lake near Silver Lake, records available on.....	270	Pigeon River near Howe.....	268
McColley Lake, lake map available on.....	274	west of Howe.....	268
Mansfield Lake at Ferndale.....	100	near Scott.....	225
Map showing locations of gaging stations.....	28	Pike Lake at Warsaw, records available on.....	270
Map showing locations of low-flow partial-record stations and miscellaneous sites.....	263	Pine Creek at Elkhart.....	268
Map showing locations of water-quality stations.....	276	Pine Lake at LaPorte, records available on.....	273
Marl Lake, lake map available on.....	274	Pike Creek (tributary to Wabash River) near Bunker Hill.....	67
Marsh Lake near Fremont, records available on.....	271	near Alexandria.....	265
Martin Lake near Valentine, records available on.....	272	Pleasant Lake (tributary to Pigeon River) at Pleasant Lake, records available on.....	271
Mateer Lake, lake map available on.....	274	Pleasant Lake (tributary to South Fork Elkhart River) at Wolf Lake, records available on.....	272
Maumee River basin, gaging-station records in.....	231-240	Pleasant Run at Arlington Ave., Indianapolis.....	138
low-flow partial-record stations in.....	266, 267	at Brookville Road, Indianapolis.....	139
water-quality stations in.....	334-337	Plum Creek near Bainbridge.....	154
Maumee River at Antwerp, Ohio.....	240, 336, 337	Plummer Creek near Bloomfield.....	266
at New Haven.....	239	Port Mitchell Lake, lake map available on.....	274
Maxinkuckee Lake at Culver, records available on.....	271	Prairie Creek at Thorntown.....	265
Messick Lake near Wolcottville, records available on.....	272	Prairie Creek Reservoir near Muncie.....	116
Micrograms per liter, definition of.....	5	Pretty Lake (Illinois River basin) near Plymouth, records available on.....	273
Middle Fork Anderson River at Bristow.....	47, 340	Pretty Lake (streams tributary to Lake Michigan) near Stroh, records available on.....	271
Middle Fork Wildcat Creek near Rossville.....	265	Pretty Lake Inlet near Stroh.....	224
Mill Creek near Cataract.....	156, 347	Publications.....	16, 17, 21
near Manhattan.....	158	Quick Creek Reservoir near Austin.....	179
Miller Lake, lake map available on.....	274	Rainbow Lake, lake map available on.....	274
Millers Lake, lake map available on.....	274	Rattlesnake Creek near Patton.....	72
Milligrams per liter, definition of.....	5	Reeves ditch near LaCrosse.....	267
Mill Pond and Kreighbaum Lake near Twin Lakes, records available on.....	273	Riddles Lake near Lakeville, records available on.....	273
Mirror Lake, lake map available on.....	274	Rider Lake near Cromwell, records available on.....	272
Mississinewa Lake at Peoria.....	64	Ridinger Lake near Pierceton, records available on.....	270
Mississinewa River at Marion.....	63	Ringneck Lake near Medaryville, records available on.....	273
at Peoria.....	65	Rivir Lake near Burr Oak, records available on.....	272
near Eaton.....	61	Robinson Lake near Pierceton, records available on.....	270
near Ridgeville.....	60	Rock Lake near Akron, records available on.....	271
Monroe Lake near Harrodsburg.....	191	Rock Run Creek at Goshen.....	269
Morse Reservoir near Noblesville.....	127	Round Lake (streams tributary to Lake Erie) at Clear Lake, records available on.....	272
Moss Lake near Washington Center, records available on.....	272	Round Lake (streams tributary to Lake Michigan) at Kendallville, records available on.....	272
Mud Creek (tributary to Busseron Creek) near Dugger.....	109	Round Lake (Wabash River basin) at Tri-Lakes, records available on.....	270
Mud Creek (tributary to Fall Creek) at Indianapolis.....	135	Round Lake (Wabash River basin), lake map available on.....	274
Mud Lake (tributary to Fawn River) at Orland, records available on.....	271	Rowe-Eden ditch near Middlebury.....	268
Mud Lake (tributary to Forker Creek), lake map available on.....	274	Royer Lake near Plato, records available on.....	271
Mud Pine Creek near Oxford.....	89	Runoff in inches, definition of.....	7
Muncie Lake near Burr Oak, records available on.....	272	Sacarider Lake near Kendallville, records available on.....	272
Muscatatuck River near Austin.....	180	St. Joseph River (streams tributary to Lake Erie) at Cedarville.....	233
near Deputy.....	178, 349	at Newville.....	334
Muskelonge Lake near Warsaw, records available on.....	270	near Newville.....	232
Myers Lake near Twin Lakes, records available on.....	273	St. Joseph River (streams tributary to Lake Michigan) basin, gaging-station records in.....	222-230
Nettle Creek near Hagerstown.....	264	St. Joseph River at Elkhart.....	230
New Lake near Etna, records available on.....	270	St. Lawrence River basin, gaging-station records in.....	211-240
Norman Lake, lake map available on.....	274	low-flow partial-record stations in.....	266, 267
North Branch Elkhart River near Cosperville.....	226	maps available on lakes in.....	274
North Chain Lake at Lydick, records available on.....	272	measurements at miscellaneous sites in.....	268, 269
North Fork Embarras River near Oblong, Ill.....	115	records available on lakes in.....	271, 272
North Fork Salt Creek at Nashville.....	188	water-quality records in.....	334-337
near Belmont.....	189	St. Marys River at Decatur.....	236
North Little Lake at Silver Lake, records available on.....	270	at Willshire, Ohio.....	335
North Twin Lake near Howe, records available on.....	271	near Fort Wayne.....	237
Nyona Lake near Greenoak, records available on.....	271	Salamonie Lake at Dora.....	57
Ogle Lake near Nashville, records available on.....	271	Salamonie River at Dora.....	58
Ohio River basin, gaging-station records in.....	29-210	at Montpelier.....	264
low-flow partial-record stations in.....	264-266	at Portland.....	55
maps available on lakes in.....	274	near Warren.....	56, 342
records available on lakes in.....	270, 271	Salt Creek (tributary to East Fork White River) near Harrodsburg.....	192, 326, 327
water-quality records in.....	277-333	near Peerless.....	194
water-quality partial-record stations in.....	338-349	Salt Creek (tributary to Little Calumet River) near McCool.....	219
Old Lake near Etna, records available on.....	270	Sand Creek near Brewersville.....	174, 349
Olin Lake near Valentine, records available on.....	272	Sand Lake near Burr Oak, records available on.....	272
Oliver Lake near Valentine, records available on.....	270	Saugany Lake near Rolling Prairie, records available on.....	272
Oswego Lake at Oswego, records available on.....	17, 22	Sawmill Lake near North Webster, records available on.....	270
Other data available.....	271	Scales Lake, lake map available on.....	274
Otter Lake near Flint, records available on.....	271	Schlamm Lake, lake map available on.....	274
Page ditch near Shipshewana.....	268	Schockopee Lake, lake map available on.....	274
		Sechrist Lake near North Webster, records available on.....	270

	Page		Page
Sediment, definition of.....	7,20,21	Tippecanoe River near Ora.....	77,343
Selected references.....	24-26	Tons per day, definition of.....	8
Sellers Lake, lake map available on.....	274	Town Lake near Akron, records available on.....	271
Shakamak Lake, lake map available on.....	274	Trail Creek at Michigan City.....	220
Sherburn Lake near Piercetown, records available on.....	270	Treaty Creek at Wabash.....	264
Shipsheana Lake near Shipsheana, records available on.....	271	Troy Cedar Lake near Lorane, records available on.....	270
Shock Lake, lake map available on.....	274	Truesdale ditch near Shipsheana.....	268
Shoe Lake near Oswego, records available on.....	270	Turkey Creek at Milford.....	268
Shriner Lake at Tri-Lakes, records available on.....	270	at New Paris.....	266
Silver Creek basin, gaging-station records on.....	40,41	at Syracuse.....	228
Silver Creek near Sellersburg.....	41	Turkey Creek (tributary to Pigeon Creek) near Helmer.....	268
Silver Lake (Wabash River basin) at Silver Lake,		near Mongo.....	268
records available on.....	270	Turman Creek near Farmersburg.....	265
Silver Lake (streams tributary to Lake Michigan) near		Twin Lake, lake map available on.....	274
Angola, records available on.....	271	Upper Fish Lake near Stillwell, records available on.....	273
Silver Lake (streams tributary to Lake Michigan) near		Upper Long Lake near Wolf Lake, records available on.....	272
Rolling Prairie, records available on.....	272	Upper Mississippi River basin, gaging-station records in.....	241-262
Silver Lake (streams tributary to Lake Michigan) near		low-flow partial-record stations in.....	267
Wolf Lake, records available on.....	272	maps available on lakes in.....	274
Simonton Lake near Elkhart, records available on.....	272	Upper Mississippi River basin,	
Singleton ditch at Illinois, Ill.....	252	records available on lakes in.....	272,273
at Schneider.....	250	Vermilion River near Danville, Ill.....	92
Skinner Lake near Albion, records available on.....	272	Vernon Fork at Vernon.....	184
Skitz Lake near Knox, records available on.....	273	near Butlerville.....	183
Slough Creek near Collegeville.....	256	Versailles Lake near Versailles, records available on.....	270
Smalley Lake near Washington Center, records available on.....	270	Village Lake near Cromwell, records available on.....	272
Smith Hole, lake map available on.....	274	Wabash River basin, gaging-station records in.....	49-210
Snow Lake near Lake James, records available on.....	271	low-flow partial-record stations in.....	264-266
Sodium-adsorption ratio, definition of.....	0	maps available on lakes in.....	274
Solomon Creek near Syracuse.....	268	records available on lakes in.....	270,271
Solutes, definition of.....	8,19,20	water-quality records in.....	282-333
South Chain Lake at Westfield, records available on.....	272	water-quality partial-record stations in.....	341-349
South Fork Deer Creek at Galveston.....	265	Wabash River at Bluffton.....	51,341
South Fork Patoka River near Spurgeon.....	206	at Covington.....	91
South Fork Salt Creek at Kurtz.....	187	at Delphi.....	73
South Fork Wildcat Creek near Lafayette.....	86	at Huntington.....	53,284,285
South Hogan Creek near Dillsboro.....	37,280,281,339	at Hutsonville, Ill.....	306
South Mud Lake near Fulton, records available on.....	271	at Lafayette.....	88,294,295
South Twin Lake near Howe, records available on.....	271	at Linn Grove.....	50,341
Sparta Lake at Kimmel, records available on.....	272	at Logansport.....	71
Special networks.....	0	at Montezuma.....	98
Specific conductance, definition of.....	0	at Mount Carmel, Ill.....	208
Spectacle (Loomis) Lake near Valparaiso,		at Peru.....	66
records available on.....	273	at Riverton.....	106,307,308
Spring Creek near White Cloud.....	264	at Terre Haute.....	105
Stage-discharge relation, definition of.....	8	at Vincennes.....	113
Starve Hollow Lake near Vallonia, records available on.....	271	at Wabash.....	59
State ditch at Kouts.....	248	near New Corydon.....	49,282,283
Steinberger Lake near Cosperville, records available on.....	272	Wabue Lake near Milford, records available on.....	272
Stehens Creek near Bloomington.....	190	Waldron Lake near Cosperville, records available on.....	272
Still Lake, lake map available on.....	274	Wall Lake near Orland, records available on.....	271
Stone Lake (Illinois River basin) at LaPorte,		Walnut Creek near Warsaw.....	76
records available on.....	273	Walnut Fork Sugar Creek near Crawfordsville.....	265
Stone Lake (streams tributary to Lake Michigan) near Scott,		Walters Lake, lake map available on.....	274
records available on.....	271	Water-quality data, collection and examination of.....	17-21
Stony Creek near Noblesville.....	129	records of.....	277-349
Story Lake near Hudson, records available on.....	271	publication of.....	21
Stotts Creek near Martinsville.....	266	Wauhoob Lake near Valparaiso, records available on.....	273
Streams tributary to Lake Erie, gaging-station records on.....	2,231-240	Wawasee Lake at Wawasee, records available on.....	272
low-flow partial-record stations on.....	266-267	Webster Lake at North Webster, records available on.....	270
maps available on lakes on.....	274	Wesau Creek near Deedsville.....	69
records available on lakes on.....	272	Weir Lake, lake map available on.....	274
water-quality records of.....	334-337	Vest Creek near Schneider.....	251
Streams tributary to Lake Michigan, gaging-station records		Vest Fork Busseron Creek near Hymers.....	100
of.....	211-230	Vest Fork White Lick Creek at Danville.....	146
low-flow partial-record stations on.....	266	Westler Lake near Wolcottville, records available on.....	272
maps available on lakes on.....	274	Wharton Lake near South Bend, records available on.....	272
records available on lakes on.....	271,272	White Lick Creek at Mooresville.....	147
Sugar Creek (tributary to Driftwood River) at New Palestine.....	164	White River at Anderson.....	119
near Edinburg.....	167,348	at Indianapolis.....	137
near Pleasant View.....	266	at Muncie.....	117
Sugar Creek (tributary to Eel River) near South Whitley.....	264	at Newberry.....	161
Sugar Creek (tributary to Iroquois River) at Milford, Ill.....	262	at Noblesville.....	123,311,312
Sugar Creek (tributary to Wabash River) at Crawfordsville.....	96	at Petersburg.....	198,328,329
near Byron.....	97,344	at Spencer.....	153
Sugar Creek (tributary to Fall Creek) near Middletown.....	132	diversion for Indianapolis.....	116
Suspended sediment, definition of.....	7	diversion for Muncie.....	116
Surface-water data, collection and computation of.....	10-15	near Centerton.....	146,315,316
accuracy of.....	15,16	near Noblesville.....	122,309,310,345
other available.....	17	near Nura.....	130,313,314
records of.....	29-262	Whitewater Lake, lake map available on.....	274
publication of.....	16	Whitewater River at Brookville.....	36
Sweet Lake, lake map available on.....	274	near Alpine.....	32,338
Sylvan Lake at Rome City, records available on.....	272	near Economy.....	29
Syracuse Lake at Syracuse, records available on.....	272	near Hagerstown.....	30
Tamarack Lake near Cosperville, records available on.....	272	Wible Lake, lake map available on.....	274
Tamarack Lake, lake map available on.....	274	Wildcat Creek at Kokomo.....	84
Tanners Creek basin, low-flow partial-record stations in.....	264	at Owasco.....	85
Tanners Creek near Guilford.....	264	near Jerome.....	32
Terry Lake, lake map available on.....	274	near Lafayette.....	87,290-293,344
Temperature.....	20	Williams Lake, lake map available on.....	274
Thermograph, definition of.....	8	Willmot Pond at Willmot, records available on.....	270
Thorn Creek at Thornton, Ill.....	213	Wilson Lake near Larwill, records available on.....	270
Tippecanoe Lake at Oswego, records available on.....	270	Winona Lake at Warsaw, records available on.....	270
Tippecanoe River at Oswego.....	75	Witmer Lake near Wolcottville, records available on.....	272
near Delphi.....	81		
near Monticello.....	80		

	Page		Page
Wolf Lake at Hammond, records available on.....	271	Yellow Creek Lake near Silver Lake, records available on.....	271
Wolf Lake at Goshen, records available on.....	271	Yellow River at Knox.....	246
WRD, definition of.....	8	at Plymouth.....	245
WSP, definition of.....	8	near Bremen.....	244
Wyland Lake, lake map available on.....	274	Yellowwood Lake, lake map available on.....	274
Yellow Creek near Mentone.....	265	Youngs Creek near Edinburg.....	160
		Zinc Lake near Rochester, records available on.....	271

