

The NOISE FORM E-5 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	U.S. DEPARTMENT OF COMMERCE INDIANAPOLIS, INDIANA	HYDROLOGIC SERVICE AREA:
MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS		REPORT FOR: MONTH: January YEAR: 2003
TO: Hydrometeorological Information Center NOISE/Office of Hydrology, W/OH12x1 1325 East-West Highway, Room 7128 Silver Spring MD. 20910	SIGNATURE: (In Charge of Hydrologic Service Area) Date: March 12, 2007	

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (WSOM E-41).

An **X** inside this box indicates that no flooding occurred within this hydrologic service area.

January 2003 ended the string of above normal temperatures for January that had begun in 1998. The HSA experienced its coldest temperatures since January 1999 and its coldest average monthly temperature since December 2000. The average temperature for January at Indianapolis was the coldest for January since 1985.

Temperatures were generally above normal during the first 10 days of January. The warmest temperatures of the month occurred on the 8th. Warm temperatures on the 8th and 9th melted most of the snow that had fallen in the HSA from the 2nd through the 6th. Snowfall of about an inch to 6 inches had fallen.

Winter returned on the 10th and remained the rest of January. Light fluffy snow would fall every 1 to 3 days depositing about an inch to possibly 4 inches. This snowfall had little water equivalent, but remained on the ground through the end of January.

Fresh snow of 1 to 4 inches on the 26th, followed by clear skies and calm winds provided the ideal conditions for very cold temperatures on the morning of the 27th. Temperatures dropped to as low as minus 25 degrees below zero near Crawfordsville in west central Indiana. Many locations throughout central Indiana had low temperatures between 10 and 20 degrees below zero. This was the coldest temperatures in central Indiana since January 1999.

Rain at the ended of December and very beginning of January caused lowland flooding along portions of the White and East Fork White Rivers in southern Indiana during the early portion of January. Flood crests ranged from near bankfull to 4 1/2 feet above flood stage. This was the highest water in the HSA since May 2002. Flooding in the HSA ended by January 7.

A slight rise occurred in stream levels following generally light rain and snowmelt on 8th and 9th. Stream remained within their banks during this time. River levels declined after the 12th. Very cold temperatures the 21st through 27th caused ice to form on most streams and ponds.

Monthly temperatures averaged 4 to 5 degrees below normal. Melted precipitation was also below normal. Monthly totals ranged from 1 to 2 inches.

Snowfall totals were above normal once again. Monthly snowfall totals for the HSA ranged from 1 to 20 inches. The lightest amounts were in the southern portion of the HSA and the highest in the central and northern portions. Most of the HSA had between 8 and 16 inches of snow.

Measurable precipitation fell on 8 to 12 days in the HSA during January. No location in the HSA received an inch or more of melted precipitation in a day during January.

Temperatures remained at or below 32 degrees on 12 to 24 days in the HSA. Temperatures fell below freezing on 28 to 30 days and to zero or below on 1 to 6 days.

At the end of January, streams levels were near normal and the HSA was covered with a trace to 6 inches of snow. Soil moisture was high to very high for most areas of the HSA. Ice had formed on many stream and ponds where local conditions permitted. Ice had started to thin as temperatures moderated to seasonal normal.

Beginning October 3, 1994, the Chicago office assumed the Hydrologic Service Area of streams and rivers in the following northern Indiana counties: Lake, Porter, LaPorte, St. Joseph, Elkhart, Newton, Jasper, Starke, Marshall, Kosciusko, Benton, White, Pulaski and Fulton counties. This included the following Indiana rivers: Kankakee, Iroquois, St. Joseph, Yellow and much of the Tippecanoe Rivers. Beginning July 15, 1998, the Chicago office transferred the following northern Indiana counties to North Webster, Indiana: LaPorte, St. Joseph, Elkhart, Starke, Marshall, Kosciusko, White, Pulaski and Fulton counties. This includes the St. Joseph, Yellow, much of the Tippecanoe and the headwaters of the Kankakee Rivers..

Beginning December 1, 1994, the Wilmington, Ohio office assumed the Hydrologic Service Area of streams and rivers in the following east central and southeast Indiana counties: Dearborn, Fayette, Franklin, Ripley, Ohio, Switzerland, Union and Wayne. This included most of the Whitewater River Watershed in Indiana.

Beginning September 1, 1995, the Louisville, Kentucky office assumed the Hydrologic Service Area of streams and rivers in the following south central Indiana counties: Orange, Washington, Scott, Jefferson, Crawford, Harrison, Floyd, and Clark. This included the Blue River Watershed in south central, the Muscatatuck River Drainage in Jefferson County and most of the Lost River in south central Indiana.

Beginning February 1, 1996, the Louisville, Kentucky office assumed the Hydrologic Service Area of the streams and rivers in the following south central and southwest Indiana counties: Dubois and Perry. This included the Anderson River along the Perry/Spencer county line.

Beginning February 1, 1996, the Paducah, Kentucky office assumed the Hydrologic Service Area of the streams and rivers in the following southwest Indiana counties: Gibson, Pike, Posey, Spencer, Vanderburgh and Warrick. This included the Wabash River in the New Harmony, Indiana area.

Beginning July 15, 1998, the North Webster, Indiana office assumed the Hydrologic Service Area of the streams and rivers in the following north central and northeast Indiana counties: Lagrange, Steuben, Noble, Dekalb, Whitley, Allen, Adams, Wells, Huntington, Wabash, Grant, Blackford and Jay. This included the headwaters of the Wabash River, the Indiana portion of the St. Joseph, St. Marys and Maumee Rivers, the Salamonie and Eel Rivers and the downstream portion of the Mississinewa River.

Station File.

It is necessary to E-mail to the following people:

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The NOISE FORM E-5 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	U.S. DEPARTMENT OF COMMERCE INDIANAPOLIS, INDIANA	HYDROLOGIC SERVICE AREA:
MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS		REPORT FOR: MONTH: February YEAR: 2003
TO: Hydrometeorological Information Center NOISE/Office of Hydrology, W/OH12x1 1325 East-West Highway, Room 7128 Silver Spring MD. 20910	SIGNATURE: (In Charge of Hydrologic Service Area) Date: March 12, 2007	

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February was a cold and snowy month for much of the Indianapolis HSA. Monthly average temperatures ranged from 5 to 6 degrees below normal. This was the coldest February since 1980. Portions of central and eastern Indiana received record February snowfall. Snowfall totals ranged from 4 inches in west central Indiana to nearly 28 inches in southeast Indiana.

February began on a very mild note. The warmest temperatures of the month occurred on the 2nd and 3rd. Highest temperatures reached into the 50s across the HSA. After the 4th, temperatures remained below normal for the remainder of the month. Much of this time temperatures remained below freezing.

An unusual phenomenon occurred during the night of the 11th across central Illinois, central and southern Indiana and southwest Ohio. With temperatures in the lower teens, a light and fluffy snow of 3 to 6 inches fell in this area during the early and late morning of the 11th. Steady winds ahead of a strong cold front allowed the temperatures to rise from the low teens at the time of the snow to the low and middle 30s during the late evening hours. As the cold front approached, winds increased and peaked at 45 mph at Indianapolis. This caused snow rollers to develop during the night of the 11th.

The high winds and right texture of the snow caused widespread formations of the snow rollers. Snow rollers were especially prevalent near the crests of hills and well trimmed or smooth areas like golf courses, pastures, wheat fields and large ponds. This was the first significant Indiana snow roller event in more than 50 years.

A very cold rain on Valentine's Day changed over to a significant snow storm on the 15th and 16th for much of the HSA.

Just to the north of Indianapolis 6 to slightly more than 12 inches of snow fell on the 15th. Just south of Indianapolis, a combination of 3 to 8 inches of snow and ice pellets fell on much of southern Indiana on the 16th. The very central portion of the Indianapolis HSA received from 1 to 4 inches of snow and ice from this slow moving storm system.

Another winter storm on the following weekend left a heavy wet snow of 4 to 10 inches across central and northern portions of the HSA. The southern portion of the HSA received less than 2 inches of snow, but 1 1/2 to slightly more than 2 inches of rain. The precipitation began as rain on the 22nd across the entire HSA and changed over to snow. Much of the HSA received 1 to 2 inches of melted precipitation from this storm.

The rain that fell in the southern portion of the HSA on the afternoon of the 22nd caused lowland flooding to develop. Flooding occurred along the Muscatatuck, East Fork White and White Rivers in southern Indiana. Crests ranged from near flood stage to nearly 5 feet above flood stage. Flood crests were similar to those of early January. Flooding lasted from less than a day to a week in southwest Indiana.

Monthly totals of melted precipitation ranged from 1 in portions of west central Indiana to over 5 inches in portions of southern Indiana. Monthly totals were above average in central and southern portions of the HSA and near normal to below normal in western and northern portions of the HSA. Measurable precipitation fell on 14 to 20 days in the HSA during February. Melted precipitation of an inch or more fell on 1 or 2 days in central and southern portions of the HSA.

Monthly temperatures averaged 5 to 6 degrees below normal. The coldest days were either the 8th or the 25th. Minimum temperatures were near 0 to single digits. Temperatures remained below 33 degrees on 10 to 18 days in the HSA. Temperatures fell below freezing on 25 to 28 days. Temperatures in portions of central and east central Indiana fell to zero or below on the 25th following a new snow of at least 3 inches and with more than 6 inches of snow on the ground.

At the end of February, streams levels were near normal to below normal in western and central portions of the HSA and above normal in southern portions. The HSA was covered with 2 to more than 6 inches of snow. There has been trace or more of snow of the ground at Indianapolis since January 14. Soil moisture was high to very high for most areas of the HSA. Ice remained on many streams and ponds where local conditions permitted.

CREST TIME	STREAM AND LOCATION	FLOOD STAGE	ABOVE FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE
-	BIG RACCOON CREEK..... FINCASTLE 3 W IN.	11.0				6.79	2/22
2200	COXVILLE IN.	14.0				8.31	2/23
0300	BIG WALNUT CREEK..... REELSVILLE IN.	12.0				8.22	2/23
0400	BLUE RIVER..... FREDERICKSBURG IN.	20.0				19.26	2/23
0300	BUCK CREEK..... NEW MIDDLETOWN 3.6 SW IN.	12.0				7.34	2/22
1545	ACTON IN.	9.0				7.35	2/22
1930	BUSSERON CREEK..... CARLISLE 2 NW IN.	16.0				11.20	2/22
2130	Back Creek..... Leesville 1W IN.	8.0				6.92	2/22
1530	Bonpas Creek..... Browns IL.					17.26	2/24
0100	CLIFTY CREEK..... HARTSVILLE IN.	10.0				6.28	2/22
2100	EAST FORK WHITE R..... COLUMBUS IN.	9.0				4.82	2/23
1800	SEYMOUR 2 N IN.	12.0	2/23	0030	2/25	15.37	2/23
1700	BEDFORD 8SE IN.	20.0				16.24	2/23
1500	BEDFORD 8SE IN.	20.0	2/26	0600	2/28	21.48	2/27
0400	BEDFORD 4 SW IN.	20.0				18.10	2/27
1500	WILLIAMS IN.	8.0				6.50	2/23
0700	WILLIAMS IN.	8.0				7.50	2/27
0800							

2200	SHOALS HIWAY 50 BRID IN.	20.0	13.36	2/23
0400	SHOALS HIWAY 50 BRID IN.	20.0	13.96	2/28
0400	EEL RIVER..... BOWLING GREEN IN.	17.0	13.11	2/23
1911	EMBARRAS RIVER..... LAWRENCEVILLE IL.	29.0	28.61	2/23
2000	FLATROCK RIVER..... ST. PAUL IN.	6.0	4.21	2/22
1615	HARBERTS CREEK..... Madison IN.	6.0	5.61	2/22
1800	MIDDLE FORK ANDERSON..... BRISTOW IN.	15.0	13.38	2/22
0100	MILL CREEK..... CATARACT 3 E IN.	15.0	12.04	2/23
0300	MISSISSINewa RIVER..... RIDGEVILLE 2 E IN.	11.0	7.34	2/23

AREA NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE HYDROLOGIC SERVICE
 3/11/03 NOAA, NATIONAL WEATHER SERVICE INDIANAPOLIS, INDIANA
 FLOOD STAGE REPORT February 2003

CREST TIME	STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	STAGE TIME	TO	CREST STAGE	CREST DATE
-	MUSCATATUCK RIVER..... Deputy 1WNW IN.	15.0				21.52	2/23
0015	VERNON 1SW 1 SW IN.	17.0				14.97	2/22
2230	WHEELER HOLLOW IN.	16.0				20.90	2/25
2300							
0230	N. F. EMBARRAS RIVER..... OBLONG 2 W IL.					12.96	2/23
0700	Patoka River..... JASPER IN.	14.0				14.60	2/24
0900	Winslow IN.					23.40	2/27

1700	PRINCETON 2 MI NE IN.	18.0			15.96	2/22
2300	PRINCETON 2 MI NE IN.	18.0			18.28	3/02
2200	SALT CREEK..... HARRODSBURG 2 SE IN.	25.0			17.77	2/22
0400	SILVER CREEK..... SELLERSBURG 2.4 SE IN.	20.0			17.45	2/23
1600	SOUTH FORK PATOKA R..... SPURGEON IN.	11.5			10.73	2/22
2300	SUGAR CREEK..... CRAWFORDSVILLE IN.	8.0			3.48	2/22
1100	SUGAR CREEK...SOUTH..... EDINBURGH 2 NW IN.	10.0			9.46	2/23
2000	WABASH RIVER..... MOUNT CARMEL IL.	19.0			15.01	2/24
0200	NEW HARMONY IN.	15.0			12.15	2/25
1545	WEST FORK BLUE RIVER..... Salem IN.	12.0			9.38	2/22
2200	WHITE LICK CREEK..... MOORESVILLE IN.	17.0			11.92	2/22
1000	WHITE RIVER..... MUNCIE IN.	9.0			7.03	2/23
0100	CENTERTON 1 S IN.	12.0			7.21	2/23
1700	SPENCER IN.	14.0			12.08	2/23
0800	WORTHINGTON IN.	18.0			18.12	2/24
0800	ELLISTON IN.	18.0	2/23 0730	2/24	19.22	2/24
0001	NEWBERRY IN.	13.0	2/23 0945	2/24	13.43	2/24
0700	EDWARDSPORT IN.	15.0	2/22 1900	2/26	16.50	2/25
0900	PETERSBURG 3 NE IN.	16.0			18.50	2/25
1100	PETERSBURG IN.	16.0	2/23 0430	3/02	18.69	2/25
0800	HAZLETON IN.	16.0	2/23 0700	3/03	18.50	2/26
	WHITEWATER RIVER.....					

2300	BROOKVILLE IN.	20.0	8.10	2/22
	Whiskey Run.....			
1430	Marengo IN.	8.0	5.56	2/22
	YOUNGS CREEK.....			
2015	AMITY IN.	7.0	7.27	2/22

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Station File.

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MONTHLY REPORT OF RIVER AND
FLOOD CONDITIONS

REPORT FOR:

MONTH: March

YEAR: 2003

TO: Hydrometeorological Information Center
NOISE/Office of Hydrology, W/OH12x1
1325 East-West Highway, Room 7128
Silver Spring MD. 20910

SIGNATURE:

(In Charge of Hydrologic Service Area)

Date: March 12, 2007

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Winter ended quickly during March in the Indianapolis HSA. Cold and snowy weather carried over through the 6th, but by the 8th temperatures reached briefly into the 60s. Beginning on the 15th, daily maximum temperatures generally were in the 60s or 70s until the 29th. Cold temperatures returned to end the month.

The warm temperatures on the 8th melted much of the remaining snow in the HSA. Most streams and rivers remained within their banks. Although stream levels were high, stream flow was typical of this time of year. Residual melting snow kept entering the small streams in east central Indiana through the 15th. Rain of 1/2 to one inch on the 13th brought streams and rivers again to near bankfull levels.

Generally light rainfall and warm temperatures through the 27th allowed stream levels to fall. The combination of regeneration of grasses and the warm temperatures allowed soils to become relatively firm.

Rainfall of about 1 to 1 1/2 inches fell on the 28th. This rainfall was concentrated near the main stem of the White River. As a result bankfull conditions occurred along the White River from the Indianapolis area to Hazleton at the end of the month. Stream levels along the much of the Wabash and East Fork White Rivers was generally unaffected.

Monthly average temperatures during March ranged from near normal in the north portions of the HSA to 1 to nearly 2 degrees above normal in central and southern portions of the HSA. The last time monthly temperatures averaged above normal in the HSA was in December. Highest temperatures reached into the middle 70s on the 24th and the lowest felled into the single digits to

teens on the 3rd. Temperatures remained below 33 degrees on 1 to 3 days in the HSA, which occurred during the first ten days of March. Minimum temperatures fell below 33 degrees on 11 to 16 days in the HSA.

Monthly totals of melted precipitation ranged from less than 2 inches in portions of north central Indiana to nearly 4 inches in central portions of Indiana. Monthly totals were below average in much of the HSA. Measurable precipitation fell on 8 to 12 days in the HSA during March. Melted precipitation of an inch or more fell on one day in portions of the HSA.

Monthly snowfall ranged from a trace to about 3 inches across the HSA. This was the first month with below normal snowfall since November. The seasonal snowfall total of 50 inches at Indianapolis is the 4th highest of record and the greatest since 1995-96 season.

At the end of March, streams levels were near normal. Early spring was in full glory. Soils in many parts of the HSA were becoming firm.

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
BIG BLUE RIVER.....							
CARTHAGE IN.	7.0				5.22	3/09	0500
CARTHAGE IN.	7.0				5.12	3/13	2200
SHELBYVILLE IN.	11.0				9.88	3/09	1530
SHELBYVILLE IN.	11.0				9.09	3/14	0730
BIG RACCOON CREEK.....							
FINCASTLE 3 W IN.	11.0				7.85	3/09	0400
BIG WALNUT CREEK.....							
REELSVILLE IN.	12.0				8.80	3/09	1100
BUCK CREEK.....							
ACTON IN.	9.0				8.03	3/09	0330
Back Creek.....							
Leesville 1W IN.	8.0				4.55	3/05	1230
Leesville 1W IN.	8.0				4.34	3/29	0345
CLIFTY CREEK.....							
HARTSVILLE IN.	10.0				4.70	3/05	1600
EAGLE CREEK.....							
ZIONSVILLE IN.	9.0				7.19	3/09	0001
SPEEDWAY IN.	9.0				5.80	3/09	1515
EAST FORK WHITE R.....							
COLUMBUS IN.	9.0				4.40	3/10	1030
SEYMOUR 2 N IN.	12.0	3/06	0800	3/07	12.44	3/07	0001
SEYMOUR 2 N IN.	12.0	3/10	0600	3/12	13.01	3/11	0700
SEYMOUR 2 N IN.	12.0				11.83	3/15	1800
BEDFORD 8SE IN.	20.0				16.11	3/09	0400
SHOALS HIWAY 50 BRID IN.	20.0				10.61	3/06	0900
SHOALS HIWAY 50 BRID IN.	20.0				10.54	3/09	2100
EAST FORK WHITEWATER.....							
ABINGTON IN.	12.0				8.16	3/21	0800
EEL RIVER.....							
BOWLING GREEN IN.	17.0				11.60	3/09	2100
FALL CREEK.....							
FORTVILLE 2 NW IN.	8.0				5.53	3/09	1300
FORTVILLE 2 NW IN.	8.0				5.98	3/14	0700
FORTVILLE 2 NW IN.	8.0				4.79	3/29	1500
MILLERSVILLE IN.	9.0				6.67	3/10	0015
MILLERSVILLE IN.	9.0				7.29	3/14	1330
MILLERSVILLE IN.	9.0				5.99	3/29	2145
FLATROCK RIVER.....							
ST. PAUL IN.	6.0				3.83	3/09	0530
LITTLE EAGLE CREEK.....							

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
LITTLE RIVER.....							
HUNTINGTON 5 W IN.	15.0				10.15	3/29	1000
MILL CREEK.....							
CATARACT 3 E IN.	15.0				11.21	3/05	2000
CATARACT 3 E IN.	15.0				10.98	3/09	0700
CATARACT 3 E IN.	15.0				10.34	3/29	2200
MISSISSINewa RIVER.....							
RIDGEVILLE 2 E IN.	11.0				11.20	3/09	0200
RIDGEVILLE 2 E IN.	11.0				11.65	3/13	1800
MARION 2 N IN.	10.0				8.43	3/14	0200
MUSCATATUCK RIVER.....							
WHEELER HOLLOW IN.	16.0				17.20	3/07	1000
PIPE CREEK.....							
FRANKTON PIPE CREEK IN.	12.0				8.73	3/09	1200
FRANKTON PIPE CREEK IN.	12.0				8.85	3/14	0130
FRANKTON PIPE CREEK IN.	12.0				7.58	3/29	1700
Patoka River.....							
PRINCETON 2 MI NE IN.	18.0				18.28	3/02	2300
SALAMONIE RIVER.....							
WARREN 2.4 NW IN.	12.0				13.73	3/12	2200
SALT CREEK.....							
HARRODSBURG 2 SE IN.	25.0				17.45	3/05	2100
SUGAR CREEK.....							
CRAWFORDSVILLE IN.	8.0				4.66	3/09	0600
CRAWFORDSVILLE IN.	8.0				5.14	3/13	2200
SUGAR CREEK...SOUTH.....							
EDINBURGH 2 NW IN.	10.0				8.91	3/10	0030
WABASH RIVER.....							
LINN GROVE IN.	11.0				10.59	3/15	0700
BLUFFTON IN.	10.0				11.50	3/16	0100
WABASH IN.	12.0				12.30	3/16	1800
PERU IN.	20.0				11.20	3/16	1600
LOGANSPOrt CICOTT ST IN.	17.0				8.59	3/16	2300
LAFAYETTE IN.	11.0	3/15	0300	3/18	11.22	3/15	1500
COVINGTON IN.	16.0				15.50	3/16	1400
MONTEZUMA IN.	14.0				13.73	3/16	1700
TERRE HAUTE WTR CORP IN.	14.0				11.76	3/17	0600
HUTSONVILLE IL.	16.0				14.70	3/16	1200
RIVERTON IN.	15.0				13.22	3/19	1200
VINCENNES IN.	17.5				12.57	3/20	0700
VINCENNES 1 W IN.	16.0				11.30	3/20	0800
MOUNT CARMEL IL.	19.0				15.36	3/20	1600
NEW HARMONY IN.	15.0				12.11	3/21	0300

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
WHITE LICK CREEK.....							
MOORESVILLE IN.	17.0				12.86	3/09	0830
MOORESVILLE IN.	17.0				11.31	3/13	2330
MOORESVILLE IN.	17.0				11.84	3/29	0800
WHITE RIVER.....							
MUNCIE IN.	9.0				7.45	3/09	1300
MUNCIE IN.	9.0				7.80	3/14	0600
ANDERSON WATERWORKS IN.	10.0				9.34	3/14	0800
ANDERSON SEWAGE PLAN IN.	10.0				9.39	3/14	1000
NOBLESVILLE IN.	14.0				11.79	3/10	0400
NOBLESVILLE IN.	14.0				12.83	3/14	2100
NORA IN.	11.0				8.93	3/10	1000
NORA IN.	11.0				9.71	3/14	2300
BROAD RIPPLE DAM IN.	6.0				5.31	3/10	1100
BROAD RIPPLE DAM IN.	6.0				5.66	3/15	0200
INDIANAPOLIS MORRIS IN.	16.0				9.22	3/10	1045
INDIANAPOLIS MORRIS IN.	16.0				9.93	3/15	0100
INDIANAPOLIS MORRIS IN.	16.0				8.33	3/30	1600
STOUT GENERATING STA IN.	10.0				6.69	3/10	0900
STOUT GENERATING STA IN.	10.0				7.06	3/14	2100
STOUT GENERATING STA IN.	10.0				6.11	3/30	1600
CENTERTON 1 S IN.	12.0				9.68	3/15	1400
SPENCER IN.	14.0				12.89	3/11	1700
SPENCER IN.	14.0				13.94	3/16	1700
SPENCER IN.	14.0				12.34	3/30	2200
WORTHINGTON IN.	18.0				17.80	3/17	0800
ELLISTON IN.	18.0	3/16	2200	3/18	18.50	3/17	0800
NEWBERRY IN.	13.0				11.67	3/12	1500
NEWBERRY IN.	13.0				12.51	3/17	1500
NEWBERRY IN.	13.0				11.83	3/31	0800
EDWARDSPORT IN.	15.0				14.70	3/13	1900
EDWARDSPORT IN.	15.0	3/17	0700	3/19	15.50	3/18	1900
EDWARDSPORT IN.	15.0				14.70	3/31	1900
PETERSBURG 3 NE IN.	16.0				15.55	3/07	1600
PETERSBURG 3 NE IN.	16.0				15.95	3/14	0700
PETERSBURG 3 NE IN.	16.0				15.35	3/20	0001
PETERSBURG IN.	16.0				15.83	3/07	1600
PETERSBURG IN.	16.0	3/13	2200	3/15	16.23	3/14	0900
PETERSBURG IN.	16.0				15.65	3/19	2300
HAZLETON IN.	16.0	3/14	2300	3/16	16.50	3/15	0700
WHITewater RIVER.....							
ECONOMY 2 NW IN.					5.88	3/08	2145
ALPINE 2 NE IN.	14.0				14.28	3/09	1100
BROOKVILLE IN.	20.0				7.21	3/09	1500
WILDCAT CREEK.....							
JEROME 1 SE IN.					7.42	3/13	2330
KOKOMO IN.	10.0				6.86	3/14	1000
LAFAYETTE 4 NE IN.	10.0				7.08	3/09	1400
LAFAYETTE 4 NE IN.	10.0				7.06	3/14	0500

YOUNGS CREEK.....
AMITY IN.

7.0

5.20 3/09 0630

Beginning October 3, 1994, the Chicago office assumed the Hydrologic Service Area of streams and rivers in the following northern Indiana counties: Lake, Porter, LaPorte, St. Joseph, Elkhart, Newton, Jasper, Starke, Marshall, Kosciusko, Benton, White, Pulaski and Fulton counties. This included the following Indiana rivers: Kankakee, Iroquois, St. Joseph, Yellow and much of the Tippecanoe Rivers. Beginning July 15, 1998, the Chicago office transferred the following northern Indiana counties to North Webster, Indiana: LaPorte, St. Joseph, Elkhart, Starke, Marshall, Kosciusko, White, Pulaski and Fulton counties. This includes the St. Joseph, Yellow, much of the Tippecanoe and the headwaters of the Kankakee Rivers..

Beginning December 1, 1994, the Wilmington, Ohio office assumed the Hydrologic Service Area of streams and rivers in the following east central and southeast Indiana counties: Dearborn, Fayette, Franklin, Ripley, Ohio, Switzerland, Union and Wayne. This included most of the Whitewater River Watershed in Indiana.

Beginning September 1, 1995, the Louisville, Kentucky office assumed the Hydrologic Service Area of streams and rivers in the following south central Indiana counties: Orange, Washington, Scott, Jefferson, Crawford, Harrison, Floyd, and Clark. This included the Blue River Watershed in south central, the Muscatatuck River Drainage in Jefferson County and most of the Lost River in south central Indiana.

Beginning February 1, 1996, the Louisville, Kentucky office assumed the Hydrologic Service Area of the streams and rivers in the following south central and southwest Indiana counties: Dubois and Perry. This included the Anderson River along the Perry/Spencer county line.

Beginning February 1, 1996, the Paducah, Kentucky office assumed the Hydrologic Service Area of the streams and rivers in the following southwest Indiana counties: Gibson, Pike, Posey, Spencer, Vanderburgh and Warrick. This included the Wabash River in the New Harmony, Indiana area.

Beginning July 15, 1998, the North Webster, Indiana office assumed the Hydrologic Service Area of the streams and rivers in the following north central and northeast Indiana counties: Lagrange, Steuben, Noble, Dekalb, Whitley, Allen, Adams, Wells, Huntington, Wabash, Grant, Blackford and Jay. This included the headwaters of the Wabash River, the Indiana portion of the St. Joseph, St. Marys and Maumee Rivers , the Salamonie and Eel Rivers and the downstream portion of the Mississinewa River .

Station File.

It is necessary to E-mail to the following people:

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MONTHLY REPORT OF RIVER AND
FLOOD CONDITIONS

REPORT FOR:

MONTH: April

YEAR: 2003

TO: Hydrometeorological Information Center
NOISE/Office of Hydrology, W/OH12x1
1325 East-West Highway, Room 7128
Silver Spring MD. 20910

SIGNATURE:

(In Charge of Hydrologic Service Area)
Date: March 12, 2007

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (WSOM E-41).



An **X** inside this box indicates that no flooding occurred within this hydrologic service area.

After a rather cold and harsh winter, spring weather in April was exceptional. All of the early spring bulbs and blossoms were glorious. Temperatures were slightly above normal and rainfall slightly below normal for the month in most areas of the HSA.

April began on a very warm note, with temperature in the 70s during the first four days. A very cool spell followed, with temperatures in the 40s from the 6th through the 9th. From the 10th through Easter Sunday, the 20th, temperatures were generally in the 60s and 70s. There was some isolated severe weather on Easter Sunday. Cooler temperatures in the 50s and 60s prevailed from the 21st through the 26th. The month finished with temperatures mostly in the 70s.

For much of the HSA, temperatures below freezing appeared to have ended on the morning of the 10th. However, nearly 2 weeks later very cool temperatures occurred just before sunrise on the 23rd. Temperatures dropped below freezing for 1 to 4 hours in many portions of the HSA. After sunrise, the temperature rose quickly and only limited damage may have occurred to the beautiful April bulbs and blossoms. Temperatures in portions of central Indiana had fallen into the upper 20s including Indianapolis, which recorded 27 degrees. The last time Indianapolis experienced a colder temperature so late in the spring season was 1986.

River levels generally declined in the HSA through the 25th. Rain of 1 to 3 inches on the 25th in central and southern portions of Indiana caused near bankfull rises along the Muscatatuck and East Fork White Rivers in Jackson County and high river levels in the East Fork White and White Rivers in

south central and southwest Indiana. Other streams and rivers in the HSA showed little response to the rain on the 25th.

Monthly average temperatures during April ranged from 1 to 2 ½ degrees above normal in the HSA. This was the second consecutive month when the temperatures averaged above normal. Highest temperatures reached into the low to middle 80s on the 15th and 30th. The lowest temperatures of the month fell into the upper 20s or low 30s on the 6th or 23rd. Minimum temperatures fell below 33 degrees on 3 to 6 days in the HSA.

Monthly rainfall totals ranged from around 2 inches in portions of north central Indiana to nearly 6 inches in south central and southeast portions of Indiana. Monthly totals were below average in much of the HSA except for portions of south central and southeast Indiana. These areas had slightly above normal monthly rainfall. Measurable rain fell on 8 to 12 days in the HSA during April. Rain of an inch or more fell on one day in the HSA. Some south central and southeast areas had 2 days with an inch or more of rain.

Monthly snowfall was a trace in central and northern portions of the HSA. The seasonal snowfall total of 50 inches at Indianapolis is the 4th highest of record and the greatest since 1995-96 season.

At the end of April, streams levels were below normal in much of the HSA. Soils in many parts of the HSA were somewhat dry.

Beginning October 3, 1994, the Chicago office assumed the Hydrologic Service Area of streams and rivers in the following northern Indiana counties: Lake, Porter, LaPorte, St. Joseph, Elkhart, Newton, Jasper, Starke, Marshall, Kosciusko, Benton, White, Pulaski and Fulton counties. This included the following Indiana rivers: Kankakee, Iroquois, St. Joseph, Yellow and much of the Tippecanoe Rivers. Beginning July 15, 1998, the Chicago office transferred the following northern Indiana counties to North Webster, Indiana: LaPorte, St. Joseph, Elkhart, Starke, Marshall, Kosciusko, White, Pulaski and Fulton counties. This includes the St. Joseph, Yellow, much of the Tippecanoe and the headwaters of the Kankakee Rivers..

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Beginning February 1, 1996, the Paducah, Kentucky office assumed the Hydrologic Service Area of the streams and rivers in the following southwest Indiana counties: Gibson, Pike, Posey, Spencer, Vanderburgh and Warrick. This included the Wabash River in the New Harmony, Indiana area.

Beginning July 15, 1998, the North Webster, Indiana office assumed the Hydrologic Service Area of the streams and rivers in the following north central and northeast Indiana counties: Lagrange, Steuben, Noble, Dekalb, Whitley, Allen, Adams, Wells, Huntington, Wabash, Grant, Blackford and Jay. This included the headwaters of the Wabash River, the Indiana portion of the St. Joseph, St. Marys and Maumee Rivers , the Salamonie and Eel Rivers and the downstream portion of the Mississinewa River .

Station File.

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MONTHLY REPORT OF RIVER AND
FLOOD CONDITIONS

REPORT FOR:

MONTH: May

YEAR: 2003

TO: Hydrometeorological Information Center
NOISE/Office of Hydrology, W/OH12x1
1325 East-West Highway, Room 7128
Silver Spring MD. 20910

SIGNATURE:

(In Charge of Hydrologic Service Area)
Date: March 12, 2007

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (WSOM E-41).



An **X** inside this box indicates that no flooding occurred within this hydrologic service area.

For the second consecutive May widespread flooding occurred in the Indianapolis HSA. Flooding was confined to mainly agricultural fields and river cabins. The disastrous flooding of May 2002 did not occur.

After a mild and somewhat dry April, May began on a very wet note. At least 5 rainfall events occurred during the first 2 weeks. Rainfall total of 3 to 6 inches were common from the 4th through the 10th.

Lowland flooding and high river conditions resulted after widespread rain of 1 to 2 inches on the 4th and 5th. Early on the 9th, heavy rain of 2 to 4 inches fell in the upper Wabash River Basin in White, Cass, Miami, Wabash and Huntington counties. This produced extensive lowland along the Wabash and Tippecanoe Rivers in White, Carroll and Tippecanoe Counties.

On the evening of the 9th, a narrow 10 to 20 mile wide band of 2 to 4 inches of rain fell along the East Fork White and Muscatatuck Rivers in southern Indiana. This caused sharp local rises in these rivers and some lowland flooding.

The following day an MCS dropped 1 to 3 inches of rain on very wet ground over much of the northern and central portions of the HSA. This caused widespread small stream flooding and localized flash flooding. This additional rain produced extensive lowland flooding along the Wabash, White, Muscatatuck and East Fork White Rivers. Rain of 1 to 2 inches on the 14th prolonged high water along rivers in the HSA but did not cause additional flooding.

Severe weather was also common from the 4th through 10th. Most severe weather reports were hail and strong winds.

The relatively warm and very wet pattern ended on the 19th. From the 20th through early June a very cool and sometimes cloudy conditions persisted over Indiana. Average temperatures at Indianapolis remained 4 to 15 degrees below normal. Rainfall during this period was generally under an inch. As a result of the greatly diminished rainfall, flooding ended in the HSA by the 24th.

River flooding in the HSA lasted from a few days to slightly more than 2 weeks in southwest Indiana and southeast Illinois. The upper northeast portion and a few locations in the western portion of the Wabash River Basin experienced slightly higher flood levels than May 2002. Flood levels in much of west central and southern Indiana were significantly lower than May 2002.

Monthly average temperatures during May ranged from 1½ to 2½ degrees below normal in the HSA. Highest temperatures reached into the low to middle 80s on the 9th. The lowest temperatures of the month fell into the lower 40s on the 24th.

Monthly rainfall totals ranged from 4 to 10 inches. Monthly rainfall was above normal for nearly the entire HSA. Measurable rain fell on 14 to 19 days in the HSA during May. Rain of an inch or more fell on two days in the HSA. A few locations had 3 days with an inch or more of rain.

At the end of May, streams levels were returning to normal levels in the HSA. Soils in many parts of the HSA remained wet.

6/05/03

FLOOD STAGE REPORT

May 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME

BIG BLUE RIVER....							
CARTHAGE IN.	7.0				7.13	5/11	1500
SHELBYVILLE IN.	11.0				11.93	5/12	0230
BIG RACCOON CREEK....							
FINCASTLE 3 W IN.	11.0				14.97	5/11	0600
FINCASTLE 3 W IN.	11.0				15.05	5/11	1500
COXVILLE IN.	14.0				13.89	5/11	1400
BIG WALNUT CREEK....							
REELSVILLE IN.	12.0				14.44	5/11	1400
BLUE RIVER....							
FREDERICKSBURG IN.	20.0				16.39	5/05	1900
FREDERICKSBURG IN.	20.0				11.41	5/18	0800
BUCK CREEK....							
NEW MIDDLETOWN 3.6 SW IN.	12.0				5.70	5/05	1345
ACTON IN.	9.0				7.59	5/05	1300
ACTON IN.	9.0				8.49	5/11	0200
BUSSERON CREEK....							
CARLISLE 2 NW IN.	16.0				10.20	5/05	1400
CARLISLE 2 NW IN.	16.0				9.80	5/11	0930
Back Creek....							
Leesville 1W IN.	8.0				6.52	5/05	1130
Leesville 1W IN.	8.0				5.39	5/10	0245
Bonpas Creek....							
Browns IL.					17.09	5/09	0415
Browns IL.					17.14	5/11	1330
CLIFTY CREEK....							
HARTSVILLE IN.	10.0				6.13	5/05	1545
HARTSVILLE IN.	10.0				4.67	5/10	2145
DEER CREEK....							
DELPHI 2.6 NE IN.					6.03	5/05	1215
DELPHI 2.6 NE IN.					5.92	5/09	2230
EAGLE CREEK....							
ZIONSVILLE IN.	9.0				11.15	5/10	2000
ZIONSVILLE IN.	9.0				9.26	5/11	1300
SPEEDWAY IN.	9.0				12.48	5/11	1330
EAST FORK WHITE R, ,							
COLUMBUS IN.	9.0				4.00	5/06	0730
COLUMBUS IN.	9.0				6.01	5/12	2000
SEYMOUR 2 N IN.	12.0	5/05	2100	5/08	14.13	5/06	1300
SEYMOUR 2 N IN.	12.0	5/11	0730	5/14	14.67	5/13	1100

6/05/03

FLOOD STAGE REPORT

May 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
EAST FORK WHITE R, ,							
BEDFORD 8SE IN.	20.0	5/10	0115	5/12	22.00	5/10	2300
BEDFORD 8SE IN.	20.0	5/13	1430	5/17	21.73	5/15	1800
BEDFORD 4 SW IN.	20.0				19.60	5/11	0800
BEDFORD 4 SW IN.	20.0				18.30	5/16	0800
WILLIAMS IN.	8.0				6.10	5/06	0700
WILLIAMS IN.	8.0	5/10	1000	5/11	8.40	5/11	0700
WILLIAMS IN.	8.0				7.60	5/16	0700
SHOALS HIWAY 50 BRID IN.	20.0				11.66	5/06	1600
SHOALS HIWAY 50 BRID IN.	20.0				18.91	5/11	0900
SHOALS HIWAY 50 BRID IN.	20.0				14.10	5/16	1200
EAST FORK WHITEWATER....							
ABINGTON IN.	12.0				10.79	5/10	2000
EEL RIVER....							
BOWLING GREEN IN.	17.0	5/11	0745	5/12	18.99	5/12	0001
EEL RIVER, NORTH....							
NORTH MANCHESTER IN.	7.0				9.59	5/09	2330
ADAMSBORO IN.	10.0				8.14	5/10	0900
EMBARRAS RIVER....							
Carmargo 2 SW IL.	12.0				9.43	5/11	1000
STE MARIE IL.	19.0				16.55	5/13	0345
LAWRENCEVILLE IL.	29.0				32.57	5/12	0806
LAWRENCEVILLE IL.	29.0				31.93	5/15	0700
FALL CREEK....							
FORTVILLE 2 NW IN.	8.0				7.25	5/11	1300
MILLERSVILLE IN.	9.0				9.19	5/11	1915
FLATROCK RIVER....							
ST. PAUL IN.	6.0				3.76	5/05	1130
ST. PAUL IN.	6.0				4.13	5/11	0130
HARBERTS CREEK....							
Madison IN.	6.0				5.49	5/05	0815
Madison IN.	6.0				6.89	5/10	0415
LITTLE BUCK CREEK....							
INDIANAPOLIS IN.					5.02	5/02	0630
LITTLE EAGLE CREEK....							
SPEEDWAY IN.					5.29	5/10	1515
LITTLE RIVER....							
HUNTINGTON 5 W IN.	15.0				15.93	5/10	0500
MIDDLE FORK ANDERSON....							
BRISTOW IN.	15.0				11.68	5/17	2100

6/05/03

FLOOD STAGE REPORT

May 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
MILL CREEK....							
CATARACT 3 E IN.	15.0				15.08	5/12	0600
MANHATTAN 5 S IN.	12.0				11.73	5/11	1000
MISSISSINewa RIVER....							
RIDGEVILLE 2 E IN.	11.0				9.73	5/11	2100
RIDGEVILLE 2 E IN.	11.0				10.55	5/11	1100
MARION 2 N IN.	10.0				11.99	5/11	1200
MUSCATATUCK RIVER....							
Deputy 1WNW IN.	15.0				23.04	5/05	1815
Deputy 1WNW IN.	15.0				22.86	5/10	1315
VERNON 1SW 1 SW IN.	17.0				12.00	5/05	1500
VERNON 1SW 1 SW IN.	17.0				10.34	5/10	1600
WHEELER HOLLOW IN.	16.0				20.10	5/09	0700
WHEELER HOLLOW IN.	16.0				20.60	5/14	0700
N. F. EMBARRAS RIVER....							
OBLONG 2 W IL.					17.37	5/12	0630
PIPE CREEK....							
FRANKTON PIPE CREEK IN.	12.0				10.88	5/11	0130
Patoka River....							
JASPER IN.	14.0				14.47	5/11	1100
Winslow IN.					21.26	5/17	1900
PRINCETON 2 MI NE IN.	18.0				17.44	5/20	0200
SALAMONIE RIVER....							
WARREN 2.4 NW IN.	12.0				12.58	5/11	1600
SALT CREEK....							
HARRODSBURG 2 SE IN.	25.0				19.88	5/05	1500
SILVER CREEK....							
SELLERSBURG 2.4 SE IN.	20.0				18.70	5/06	0001
SELLERSBURG 2.4 SE IN.	20.0				12.03	5/18	0700
SOUTH FORK PATOKA R, ,							
SPURGEON IN.	11.5				9.89	5/05	1200
SPURGEON IN.	11.5				10.10	5/08	2230
SUGAR CREEK....							
CRAWFORDSVILLE IN.	8.0	5/11	0130	5/12	9.93	5/11	1200
SUGAR CREEK, SOUTH....							
NEW PALESTINE IN.	8.0				6.54	5/11	0415
EDINBURGH 2 NW IN.	10.0				8.82	5/06	0230
EDINBURGH 2 NW IN.	10.0				10.76	5/12	0230

6/05/03

FLOOD STAGE REPORT

May 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
TIPPECANOE RIVER....							
ORA 1 SW IN.	11.0				11.51	5/11	1730
WINAMAC IN.	10.0				8.84	5/12	2300
MONTICELLO IN.	9.0				12,490*	5/09	1200
DELPHI 6 W IN.	8.0				10.03	5/09	1700
VERMILION RIVER....							
DANVILLE 2 SE IL.	18.0				9.84	5/11	1015
WABASH RIVER....							
LINN GROVE IN.	11.0				11.47	5/12	1400
BLUFFTON IN.	10.0				12.18	5/13	0600
WABASH IN.	12.0				16.25	5/09	1300
PERU IN.	20.0				12.56	5/09	1100
LOGANSPOUT CICOTT ST IN.	17.0				11.01	5/09	1300
LAFAYETTE IN.	11.0	5/06	1430	5/07	11.66	5/06	1600
LAFAYETTE IN.	11.0	5/08	1830	5/19	17.93	5/10	2200
COVINGTON IN.	16.0	5/09	1700	5/20	21.67	5/12	1600
MONTEZUMA IN.	14.0	5/07	0600	5/21	22.59	5/13	0400
TERRE HAUTE WTR CORP IN.	14.0	5/10	1615	5/21	19.61	5/13	1800
HUTSONVILLE IL.	16.0	5/10	1500	5/23	21.50	5/15	1800
RIVERTON IN.	15.0	5/10	1900	5/23	19.51	5/17	0800
VINCENNES IN.	17.5	5/14	1400	5/22	18.92	5/17	1900
VINCENNES 1 W IN.	16.0	5/13	0700	5/22	17.55	5/17	0800
MOUNT CARMEL IL.	19.0	5/10	1200	5/23	23.22	5/19	1900
NEW HARMONY IN.	15.0				16.93	5/20	1900
WEST FORK BLUE RIVER....							
Salem IN.	12.0				6.92	5/05	0800
Salem IN.	12.0				5.82	5/17	2200
WHITE LICK CREEK....							
MOORESVILLE IN.	17.0				14.83	5/11	1500
WHITE RIVER....							
MUNCIE IN.	9.0				8.00	5/11	0700
ANDERSON WATERWORKS IN.	10.0	5/10	2030	5/12	11.99	5/11	0900
ANDERSON SEWAGE PLAN IN.	10.0				12.26	5/11	1200
NOBLESVILLE IN.	14.0	5/10	1530	5/13	18.43	5/12	0200
NORA IN.	11.0	5/10	2115	5/13	14.79	5/12	1200
BROAD RIPPLE DAM IN.	6.0				7.62	5/12	0700
RAVENSWOOD IN.	6.0	5/13	1200	5/11	9.20	5/12	0400
INDIANAPOLIS MORRIS IN.	16.0				14.90	5/11	2300
STOUT GENERATING STA IN.	10.0				11.05	5/11	2200
CENTERTON 1 S IN.	12.0	5/10	2200	5/14	15.19	5/13	0400
CENTERTON IN.	603.0	5/11	0530	5/14	606.30	5/13	0500
SPENCER IN.	14.0	5/11	0930	5/17	20.03	5/14	1100
WORTHINGTON IN.	18.0				17.44	5/07	0800
ELLISTON IN.	18.0	5/06	1400	5/08	18.32	5/07	0800

* Discharge in CFS

6/05/03

FLOOD STAGE REPORT

May 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
WHITE RIVER.....							
ELLISTON IN.	18.0	5/11	0200	5/18	24.40	5/15	0800
NEWBERRY IN.	13.0	5/11	0700	5/18	18.69	5/16	0400
EDWARDSPORT IN.	15.0	5/06	1200	5/20	20.80	5/17	1900
PETERSBURG 3 NE IN.	16.0				21.31	5/12	2300
PETERSBURG 3 NE IN.	16.0				21.48	5/18	1000
PETERSBURG IN.	16.0	5/06	2100		21.53	5/13	0100
PETERSBURG IN.	16.0			5/21	21.70	5/18	1000
HAZLETON IN.	16.0	5/07	1900		21.50	5/15	0600
HAZLETON IN.	16.0			5/22	21.80	5/19	0600
WHITEWATER RIVER.....							
ECONOMY 2 NW IN.					6.01	5/10	1645
ECONOMY 2 NW IN.					6.04	5/10	0845
ECONOMY 2 NW IN.					5.76	5/11	0800
ALPINE 2 NE IN.	14.0				14.13	5/11	2000
ALPINE 2 NE IN.	14.0				15.69	5/11	0600
BROOKVILLE IN.	20.0				9.63	5/05	1300
BROOKVILLE IN.	20.0				7.89	5/10	2300
BROOKVILLE IN.	20.0				7.77	5/11	1200
WILDCAT CREEK.....							
JEROME 1 SE IN.					7.81	5/05	1730
JEROME 1 SE IN.					11.03	5/11	1615
KOKOMO IN.	10.0				7.50	5/06	0415
KOKOMO IN.	10.0				10.88	5/12	0430
KOKOMO IN.	10.0				7.46	5/15	0800
LAFAYETTE 4 NE IN.	10.0				10.40	5/11	0100
YOUNGS CREEK.....							
AMITY IN.	7.0				6.03	5/05	1900
AMITY IN.	7.0				7.59	5/11	1830

Beginning October 3, 1994, the Chicago office assumed the Hydrologic Service Area of streams and rivers in the following northern Indiana counties: Lake, Porter, LaPorte, St. Joseph, Elkhart, Newton, Jasper, Starke, Marshall, Kosciusko, Benton, White, Pulaski and Fulton counties. This included the following Indiana rivers: Kankakee, Iroquois, St. Joseph, Yellow and much of the Tippecanoe Rivers. Beginning July 15, 1998, the Chicago office transferred the following northern Indiana counties to North Webster, Indiana: LaPorte, St. Joseph, Elkhart, Starke, Marshall, Kosciusko, White, Pulaski and Fulton counties. This includes the St. Joseph, Yellow, much of the Tippecanoe and the headwaters of the Kankakee Rivers..

Beginning December 1, 1994, the Wilmington, Ohio office assumed the Hydrologic Service Area of streams and rivers in the following east central and southeast Indiana counties: Dearborn, Fayette, Franklin, Ripley, Ohio, Switzerland, Union and Wayne. This included most of the Whitewater River Watershed in Indiana.

Beginning September 1, 1995, the Louisville, Kentucky office assumed the Hydrologic Service Area of streams and rivers in the following south central Indiana counties: Orange, Washington, Scott, Jefferson, Crawford, Harrison, Floyd, and Clark. This included the Blue River Watershed in south central, the Muscatatuck River Drainage in Jefferson County and most of the Lost River in south central Indiana.

Beginning February 1, 1996, the Louisville, Kentucky office assumed the Hydrologic Service Area of the streams and rivers in the following south central and southwest Indiana counties: Dubois and Perry. This included the Anderson River along the Perry/Spencer county line.

Beginning February 1, 1996, the Paducah, Kentucky office assumed the Hydrologic Service Area of the streams and rivers in the following southwest Indiana counties: Gibson, Pike, Posey, Spencer, Vanderburgh and Warrick. This included the Wabash River in the New Harmony, Indiana area.

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Station File.

It is necessary to E-mail to the following people:

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MONTHLY REPORT OF RIVER AND
FLOOD CONDITIONS

REPORT FOR:

MONTH: June

YEAR: 2003

TO: Hydrometeorological Information Center
NOISE/Office of Hydrology, W/OH12x1
1325 East-West Highway, Room 7128
Silver Spring MD. 20910

SIGNATURE:

(In Charge of Hydrologic Service Area)

Date: March 12, 2007

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (WSOM E-41).

An **X** inside this box indicates that no flooding occurred within this hydrologic service area.

Cool weather dominated the month of June in the Indianapolis HSA. Much of the HSA received below normal monthly rainfall, but above normal rainfall plagued much of southern Indiana. The combination of cool weather and frequent rains during the first half of June delayed crop development and planting. With the return of normal temperatures and drier weather farmers in southern Indiana were able to finish planting crops.

June began with record low temperatures. This was the first time since 1992 and only the 4th time since 1871 that temperatures dropped into the upper 30s at Indianapolis in June. On the 3rd temperatures in central Indiana reached only into the 50s. Temperature finally broke the 70 degree mark on the 5th. The below normal temperatures that began on May 20 ended on June 11.

As temperatures returned to normal, much of the HSA experienced significant rainfall from the 10th through the 13th. Rain of 2 to 4 inches fell in most of southeast Illinois and southwest Indiana on the 10th and 11th. Rain of 1/2 to nearly 2 inches fell in much of central and southern Indiana on the 12th. During the afternoon and evening on the 13th, western, central and northern portions of the HSA received 1/2 to more than 2 inches in a 1 to 3 hour period.

The significant rain ended by the 14th except for portions of southern and eastern Indiana. From late morning on the 15th through early afternoon on the 16th a small portion of east central and south central Indiana received 2 to more than 4 inches of rain. Flash flooding occurred in portions of Jackson County as a result of this heavy rain on the morning of the 16th.

The hardest hit area was in Union County, just east of the HSA. Much of Union county received over 4 inches of rain.

These rain events combined to produce bankfull to slightly above flood stage conditions on the Wabash River in western Indiana and eastern Illinois and on the East Fork White, Muscatatuck and White Rivers in southern Indiana. The worst flooding was along the East Fork White River in Jackson County. Most flooding lasted about a day except in Jackson County where it lasted up to 3 days.

After the 16th little rain fell in much of the HSA. This allowed streams and rivers to return to near normal levels by the end of June.

The second half of June had some very pleasant days. On the 20th, 21st and 27th skies were brilliant blue with dew points in the upper 40s or lower 50s. Traditional Indiana summer was returning as temperatures reached into the middle and upper 80s from the 23rd through 25th and again at the end of June. The warmer weather during the last week of June greatly improved row crop development.

Monthly average temperatures during June ranged from 3 to 4 degrees below normal in the HSA. This was the coolest June since 1992. Highest temperatures reached into the upper 80s and lower 90s on the 25th. The lowest temperatures of the month fell into the upper 30s and lower 40s on the 1st.

Monthly rainfall totals ranged from 1 1/2 to over 8 inches. The wettest areas were in southern Indiana and the driest in northern Indiana. Much of the HSA received 2 to 4 inches of rain during June. Measurable rain fell on 11 days in the HSA. An inch or more of rain fell on 1 day in many areas of the HSA. Some southern locations had 2 days with an inch or more of rain. Several areas in central and northern portions of the HSA did not receive an inch of rain during a day.

At the end of June, most streams levels were normal levels. Much of the HSA was somewhat on the dry side and Indiana summer was here.

7/03/03

FLOOD STAGE REPORT

June 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
BIG BLUE RIVER..... SHELBYVILLE IN.	11.0				9.61	6/14	1730
BIG RACCOON CREEK..... FINCASTLE 3 W IN.	11.0				7.61	6/14	0200
COXVILLE IN.	14.0				8.07	6/14	0500
BUSSERON CREEK..... CARLISLE 2 NW IN.	16.0				7.57	6/12	1330
Back Creek..... Leesville 1W IN.	8.0				4.99	6/12	1245
Leesville 1W IN.	8.0				5.14	6/12	0715
Bonpas Creek..... Browns IL.					14.92	6/12	1245
CLIFTY CREEK..... HARTSVILLE IN.	10.0				5.45	6/13	0445
HARTSVILLE IN.	10.0				5.94	6/14	1500
HARTSVILLE IN.	10.0				8.00	6/15	1645
HARTSVILLE IN.	10.0				6.98	6/16	1045
DEER CREEK..... DELPHI 2.6 NE IN.					4.94	6/15	0015
EAST FORK WHITE R..... COLUMBUS IN.	9.0				5.88	6/15	2100
SEYMOUR 2 N IN.	12.0	6/14	1700	6/18	16.49	6/17	0600
BEDFORD 8SE IN.	20.0	6/19	0500	6/20	20.33	6/19	1500
BEDFORD 4 SW IN.	20.0				17.30	6/19	1430
WILLIAMS IN.	8.0				7.20	6/20	0600
SHOALS HIWAY 50 BRID IN.	20.0				12.90	6/20	1100
EEL RIVER...NORTH..... NORTH MANCHESTER IN.	7.0				7.37	6/13	2145
ADAMSBORO IN.	10.0				6.53	6/14	1400
FLATROCK RIVER..... ST. PAUL IN.	6.0				5.85	6/15	1930
LITTLE RIVER..... HUNTINGTON 5 W IN.	15.0				10.93	6/14	0600
M.F. Vermilion River..... Oakwood 2 NE IL.					6.44	6/12	1130
MUSCATATUCK RIVER..... Deputy 1WNW IN.	15.0				16.68	6/15	1915
Deputy 1WNW IN.	15.0				15.16	6/16	1815

VERNON 1SW 1 SW IN.

17.0

8.26 6/15 1200

7/03/03

FLOOD STAGE REPORT

June 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
MUSCATATUCK RIVER.....							
VERNON 1SW 1 SW IN.	17.0				8.01	6/16	0830
WHEELER HOLLOW IN.	16.0				19.70	6/18	1200
N.F. Vermilion River.....							
Bismarck 2 W IL.					10.36	6/14	1245
Patoka River.....							
JASPER IN.	14.0				12.71	6/13	1000
Winslow IN.					18.61	6/14	1400
PRINCETON 2 MI NE IN.	18.0				13.20	6/12	1000
PRINCETON 2 MI NE IN.	18.0				12.81	6/16	1500
SALAMONIE RIVER.....							
WARREN 2.4 NW IN.	12.0				8.56	6/14	0200
SALT CREEK.....							
HARRODSBURG 2 SE IN.	25.0				20.49	6/17	0001
SOUTH FORK PATOKA R.....							
SPURGEON IN.	11.5				6.72	6/12	0945
SUGAR CREEK.....							
CRAWFORDSVILLE IN.	8.0				3.73	6/14	0700
SUGAR CREEK...SOUTH.....							
EDINBURGH 2 NW IN.	10.0				7.98	6/15	1330
VERMILION RIVER.....							
DANVILLE 2 SE IL.	18.0				10.00	6/14	2000
WABASH RIVER.....							
LINN GROVE IN.	11.0				7.59	6/13	2100
LINN GROVE IN.	11.0				7.80	6/19	1100
BLUFFTON IN.	10.0				9.74	6/14	0100
WABASH IN.	12.0				13.03	6/14	0001
PERU IN.	20.0				9.63	6/14	0400
LOGANSPOUT CICOTT ST IN.	17.0				8.09	6/14	1000
LAFAYETTE IN.	11.0	6/14	2000	6/15	11.43	6/15	0001
COVINGTON IN.	16.0				15.21	6/15	1900
MONTEZUMA IN.	14.0	6/15	1200	6/16	14.63	6/16	0200
TERRE HAUTE WTR CORP IN.	14.0				12.41	6/16	1300
HUTSONVILLE IL.	16.0				14.90	6/16	2300
RIVERTON IN.	15.0				13.61	6/17	0900
VINCENNES IN.	17.5				12.59	6/17	2300
VINCENNES 1 W IN.	16.0				11.05	6/18	0100
MOUNT CARMEL IL.	19.0				13.54	6/19	0001
NEW HARMONY IN.	15.0				10.31	6/19	0300
WHITE LICK CREEK.....							
MOORESVILLE IN.	17.0				11.77	6/14	0430

7/03/03

FLOOD STAGE REPORT

June 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
WHITE LICK CREEK.....							
WHITE RIVER.....							
SPENCER IN.	14.0				9.04	6/15	0600
NEWBERRY IN.	13.0				8.72	6/15	2100
EDWARDSPORT IN.	15.0				11.40	6/16	0700
PETERSBURG 3 NE IN.	16.0				14.12	6/21	0300
PETERSBURG IN.	16.0				14.40	6/21	0700
WHITewater RIVER.....							
ALPINE 2 NE IN.	14.0				13.96	6/15	1100
BROOKVILLE IN.	20.0				9.11	6/15	1700
WILDCAT CREEK.....							
KOKOMO IN.	10.0				6.46	6/13	1615
LAFAYETTE 4 NE IN.	10.0				7.38	6/14	1700
YOUNGS CREEK.....							
AMITY IN.	7.0				6.12	6/15	1100

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Station File.

It is necessary to E-mail to the following people:

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The NOISE FORM E-5 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	U.S. DEPARTMENT OF COMMERCE INDIANAPOLIS, INDIANA	HYDROLOGIC SERVICE AREA: REPORT FOR: MONTH: July YEAR: 2003
MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS		SIGNATURE: (In Charge of Hydrologic Service Area) Date: March 12, 2007
TO: Hydrometeorological Information Center NOISE/Office of Hydrology, W/OH12x1 1325 East-West Highway, Room 7128 Silver Spring MD. 20910		

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (WSOM E-41).

An X inside this box indicates that no flooding occurred within this hydrologic service area.

Relentless and violent storms from the 4th through the 11th caused record flooding in portions of northern Indiana. More than 1,000 families were left homeless and total flood damage could exceed one billion dollars. FEMA estimated more than 100 million dollars to public and private entities. FEMA estimates do not include agricultural loss which may exceed 5% of Indiana's total grain harvest.

Record floods occurred along Wildcat and Deer Creeks in the Indianapolis HSA and along the St. Marys and Iroquois Rivers in northern Indiana. Near record flooding occurred along the Wabash River in Adams and Wells Counties. Areas in the Indianapolis HSA that were hard hit include Kokomo, Delphi, Alexandria and Ravenswood. Areas outside the HSA in northern Indiana include Bluffton, Decatur and the southside of Fort Wayne. At least 2 deaths were attributed to flooding in the HSA and 4 in the entire state.

Record flooding in the Kokomo came within hours after the onslaught of the heavy rain. Early on the 5th, 8 to more than 13 inches of rain fell in Howard, Cass, Miami and Carroll counties. Much of the upper portion of the Wabash River received at least 4 inches of rain. Areas that previously had been on the dry side flooded instantly and severely. And the storms kept coming every 18 to 24 hours in practically the same area for nearly a week. When the storm system finally moved away on the 11th, much of northern Indiana had received 8 to more than 16 inches of rain. Much of central and southeast Indiana received 3 to 8 inches. During this period most of southwest Indiana received less than an inch of rain.

Because of the seemingly unending rain in White and Carroll Counties, discharges from Oakdale Dam exceeded 10,000 cubic feet

per second for a week. Peak flow during this time was slightly over 18,000 cubic feet per second. The last time the Tippecanoe River below Oakdale Dam experienced higher flooding was in April 1994. However, the continued volume of water for the week time period was mostly likely a record for the dam.

The unending rain caused major flooding along the Wabash River from Lafayette to Montezuma and major agricultural flooding from Clinton to New Harmony. For the month of July, this type of flooding was likely unprecedented from Lafayette to Vincennes. For a more devastating flood later in the agricultural season, one must go back to August 1875.

The ceaseless storms caused near major flooding along the White River in Hamilton and northern Marion Counties. The White River at Noblesville reached its highest level since March 1913. However measured peak flow at Noblesville was about 30% less than the April 1964 flood. Major agricultural damage resulted along the entire length of the White River. This was the worst summer agricultural flood for the White River and the Wabash River in the Mount Carmel, Illinois and New Harmony, Indiana areas since 1979.

As the storm system was exiting Indiana, 4 to more than 6 inches of rain fell in southern Decatur and much of Jennings Counties early on the 10th. Flash flooding in Jennings County washed over U.S. Highway 50 in North Vernon. An automated gage at Vernon rose nearly 22 feet in about 12 hours. This caused brief extensive flooding along the East Fork White River in Jackson County. This was the highest flood level in the Seymour area since May 2002.

After the 11th, the weather was somewhat more tranquil, but July storms were not finished. Early on the 21st, a wide spread squall line produced wind gusts in excess of 75 mph in many areas of central Indiana. One of the worst hit areas was McCormick's Creek State Park near Spencer. Over 150 large trees were blown down. Several campers in the Park's camping grounds were injured as a result.

Extensive flood waters along the Wabash River in the Terre Haute, Indiana and Hutsonville, Illinois areas had a influence on the local weather on the 16th and 17th. After the passage of a cold front and with very light winds in western Indiana, the colder flood waters suppressed the fair weather cumulus clouds. The outline of the flooded river was clearly seen in the visible satellite pictures. About 3 hours after sunrise on the 17th, the temperature discontinuity between the land and flood waters in western Indiana was visible on the Indianapolis Doppler radar. Once again the outline of the river could be seen.

Flooding quickly began in much of central and northern Indiana on the 5th. Because of the repeated rains, flooding continued for nearly a week along many small stream. Because of light rainfall in much of southwest Indiana, flooding along the White River lasted only about ten days. The story was different for the Wabash River. Flooding lasted from 10 days at Mount Carmel to more than 3 weeks at Hutsonville. The Wabash River in the Lafayette area was above flood stage for 3 weeks.

Rainfall in the Indianapolis HSA ranged from around 3 inches in southwest Indiana to nearly 20 inches in northern portions of the HSA. Rainfall of 6 to 10 inches for July was rather common. Normal rainfall is around 4 inches. Much of the rainfall for the HSA occurred from the 4th through the 11th. Many areas in the HSA had 3 days with an inch or more of rain.

Because of the frequent rainfall and storms, monthly temperatures were below normal once again. Temperature ranged between 1 and 2 degrees below normal. The warmest temperatures during July occurred on the 4th. High temperatures were in the low and middle 90s. After the 9th, average temperatures were generally below normal. The coolest temperatures occurred on the 24th when lows were in the middle to upper 50s.

Flooding had ended in the Indianapolis HSA by the end of July. Wet soils still remained in much of the HSA, but were drying out. Mosquitoes were a plague nearly everywhere. Because of wet soils and continued discharges from flood control reservoirs, river levels remained high along the White and Wabash Rivers.

7/30/03 FLOOD STAGE REPORT

July 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
McCleary Ditch..... Mohawk IN.					6.93	7/05	0715
BIG BLUE RIVER.....							
CARTHAGE IN.	7.0				7.78	7/05	1900
CARTHAGE IN.	7.0				7.76	7/09	2300
SHELBYVILLE IN.	11.0				12.18	7/06	2030
SHELBYVILLE IN.	11.0				11.37	7/11	0830
BIG RACCOON CREEK.....							
FINCASTLE 3 W IN.	11.0				9.36	7/10	1300
COXVILLE IN.	14.0				13.67	7/10	1300
COXVILLE IN.	14.0				12.17	7/15	2200
BIG WALNUT CREEK.....							
REELSVILLE IN.	12.0				11.05	7/06	1000
REELSVILLE IN.	12.0				15.55	7/10	1100
REELSVILLE IN.	12.0				11.78	7/15	1700
BUCK CREEK.....							
ACTON IN.	9.0				7.50	7/05	1930
ACTON IN.	9.0				6.98	7/10	1300
BUSSERON CREEK.....							
CARLISLE 2 NW IN.	16.0				6.83	7/10	1000
CARLISLE 2 NW IN.	16.0				7.51	7/17	1230
CARLISLE 2 NW IN.	16.0				8.75	7/19	0300
CLIFTY CREEK.....							
HARTSVILLE IN.	10.0				3.73	7/10	0130
DEER CREEK.....							
DELPHI 2.6 NE IN.					18.64#	7/05	2130
DELPHI 2.6 NE IN.					11.80	7/10	0615
EAGLE CREEK.....							
ZIONSVILLE IN.	9.0				9.09	7/06	0001
ZIONSVILLE IN.	9.0				10.27	7/07	1000
ZIONSVILLE IN.	9.0				8.42	7/09	1100
ZIONSVILLE IN.	9.0				7.53	7/10	0700
SPEEDWAY IN.	9.0				9.16	7/06	0400
EAST FORK WHITE R.....							
COLUMBUS IN.	9.0				3.84	7/07	2300
COLUMBUS IN.	9.0				5.98	7/10	1330
SEYMOUR 2 N IN.	12.0				11.35	7/08	2200
SEYMOUR 2 N IN.	12.0	7/10	0700	7/13	17.95	7/11	0200
SEYMOUR 2 N IN.	12.0				9.87	7/16	1100
BEDFORD 8SE IN.	20.0	7/13	1545	7/15	20.88	7/14	0900
BEDFORD 4 SW IN.	20.0				17.30	7/14	1500
WILLIAMS IN.	8.0				7.30	7/14	2200
SHOALS HIWAY 50 BRID IN.	20.0				8.25	7/11	0600
SHOALS HIWAY 50 BRID IN.	20.0				12.49	7/15	1100

#Record Flood

NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE
NOAA, NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA
INDIANAPOLIS, INDIANA

7/30/03

FLOOD STAGE REPORT

July 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
EAST FORK WHITEWATER..... ABINGTON IN.	12.0				12.57	7/09	1300
EEL RIVER..... BOWLING GREEN IN.	17.0				12.17	7/06	2200
BOWLING GREEN IN.	17.0	7/10	1630	7/11	19.02	7/11	0600
BOWLING GREEN IN.	17.0				15.65	7/16	0600
EEL RIVER...NORTH..... NORTH MANCHESTER IN.	7.0				10.17	7/07	1400
ADAMSBORO IN.	10.0				9.22	7/08	1200
EMBARRAS RIVER..... Carmargo 2 SW IL.	12.0				9.21	7/11	1130
STE MARIE IL.	19.0				12.66	7/11	0100
LAWRENCEVILLE IL.	11.0				29.09	7/11	2336
LAWRENCEVILLE IL.	11.0				30.51	7/19	0941
FALL CREEK..... FORTVILLE 2 NW IN.	8.0				8.44	7/06	1800
FORTVILLE 2 NW IN.	8.0				8.63	7/10	1300
MILLERSVILLE IN.	9.0				10.65	7/06	1245
MILLERSVILLE IN.	9.0				10.88	7/07	1345
MILLERSVILLE IN.	9.0				11.32	7/10	2130
FLATROCK RIVER..... ST. PAUL IN.	6.0				4.40	7/05	1600
Harberts Creek Madison	7.0				5.12	7/28	0815
LITTLE EAGLE CREEK..... SPEEDWAY IN.					6.92	7/05	0900
LITTLE RIVER..... HUNTINGTON 5 W IN.	15.0				15.91	7/08	0600
M.F. Vermilion River..... Oakwood 2 NE IL.					8.66	7/10	1130
MILL CREEK..... CATARACT 3 E IN.	15.0				11.48	7/07	0600
CATARACT 3 E IN.	15.0				15.96	7/11	0900
CATARACT 3 E IN.	15.0				12.95	7/15	2200
MANHATTAN 5 S IN.	12.0				13.52	7/10	1200
MISSISSINAWA RIVER..... RIDGEVILLE 2 E IN.	11.0				12.89	7/05	1700

RIDGEVILLE 2 E IN.	11.0	12.69	7/07 1300
RIDGEVILLE 2 E IN.	11.0	14.62	7/09 0700
MARION 2 N IN.	10.0	14.25	7/10 0800

NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE
NOAA, NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA
INDIANAPOLIS, INDIANA

7/30/03 FLOOD STAGE REPORT

July 2003

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MUSCATATUCK RIVER.....							
Deputy 1WNW IN.	15.0				17.95	7/10	2015
Deputy 1WNW IN.	15				20.10	7/28	1315
VERNON 1SW 1 SW IN.	17.0				25.61	7/10	1130
WHEELER HOLLOW IN.	16.0				20.40	7/13	0700
N. F. EMBARRAS RIVER.....							
OBLONG 2 W IL.					11.36	7/10	2345
N.F. Vermilion River.....							
Bismarck 2 W IL.					11.29	7/10	0630
PIPE CREEK.....							
FRANKTON PIPE CREEK IN.	12.0				12.12	7/05	2330
FRANKTON PIPE CREEK IN.	12.0				10.87	7/08	0400
FRANKTON PIPE CREEK IN.	12.0				13.80	7/09	1900
SALAMONIE RIVER.....							
WARREN 2.4 NW IN.	12.0				14.96	7/08	0300
SALT CREEK.....							
HARRODSBURG 2 SE IN.	25.0				18.44	7/10	0900
ST. MARYS RIVER.....							
DECATUR 1 N IN.	15.0				26.92	7/09	0800
SUGAR CREEK.....							
CRAWFORDSVILLE IN.	8.0				6.88	7/06	0800
CRAWFORDSVILLE IN.	8.0				7.43	7/10	0800
SUGAR CREEK...SOUTH.....							
NEW PALESTINE IN.	8.0				7.99	7/06	0430
NEW PALESTINE IN.	8.0				8.79	7/07	0515
NEW PALESTINE IN.	8.0				8.22	7/11	0445
EDINBURGH 2 NW IN.	10.0				8.00	7/07	0300
EDINBURGH 2 NW IN.	10.0				9.29	7/11	0200
TIPPECANOE RIVER.....							
ORA 1 SW IN.	11.0				11.86	7/10	2030
WINAMAC IN.	10.0				9.53	7/11	0900
MONTICELLO IN.	9.0				16.03*	7/06	0001
MONTICELLO IN.	9.0				16.98*	7/09	0001
MONTICELLO IN.	9.0				18.35*	7/10	0300

DELPHI 6 W IN.	8.0	11.86	7/05 1700
DELPHI 6 W IN.	8.0	12.06	7/06 0900
DELPHI 6 W IN.	8.0	11.25	7/07 2000
DELPHI 6 W IN.	8.0	12.80	7/10 0800
VERMILION RIVER.....			
DANVILLE 2 SE IL.	18.0	14.28	7/10 1215

*KCFS or Thousands of Cubic Feet per Second

NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE	HYDROLOGIC SERVICE AREA
NOAA, NATIONAL WEATHER SERVICE	INDIANAPOLIS, INDIANA

7/30/03	FLOOD STAGE REPORT	July 2003
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STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
WABASH RIVER.....							
LINN GROVE IN.	11.0				14.78	7/08	0800
BLUFFTON IN.	10.0				18.14	7/08	1840
BLUFFTON IN.	10.0				18.30	7/09	1230
HUNTINGTON IN.	20.0				19.37	7/11	0600
WABASH IN.	12.0				16.56	7/07	1100
PERU IN.	20.0				13.99	7/12	0900
LOGANSPORT CICOTT ST IN.	17.0				12.24	7/05	1500
LOGANSPORT CICOTT ST IN.	17.0				13.60	7/07	1200
LAFAYETTE IN.	11.0	7/05	1345		24.88	7/08	1000
LAFAYETTE IN.	11.0			7/26	25.05	7/10	1800
COVINGTON IN.	16.0	7/06	0830	7/26	28.92	7/11	1000
MONTEZUMA IN.	14.0	7/06	1545	7/28	30.35	7/12	0900
CLINTON IN.	18.0				29.50	7/13	0001
TERRE HAUTE WTR CORP IN.	14.0	7/07	1330	7/28	25.09	7/13	1900
HUTSONVILLE IL.	16.0	7/08	1200		25.90	7/17	0100
RIVERTON IN.	15.0	7/09	0001		23.73	7/17	0600
VINCENNES IN.	17.5	7/13	2000	7/28	24.10	7/18	2200
VINCENNES 1 W IN.	16.0	7/13	0800	7/29	22.55	7/18	2359
MOUNT CARMEL IL.	19.0	7/15	2300	7/25	24.85	7/20	0900
NEW HARMONY IN.	15.0				17.72	7/21	0900
WHITE LICK CREEK.....							
MOORESVILLE IN.	17.0				15.33	7/06	1100
MOORESVILLE IN.	17.0				14.96	7/10	1030
WHITE RIVER.....							
MUNCIE IN.	9.0				8.57	7/06	0900
MUNCIE IN.	9.0				10.35	7/08	2100
MUNCIE IN.	9.0	7/07	1100		10.10	7/08	0900
MUNCIE IN.	9.0			7/11	10.94	7/10	1000
ANDERSON WATERWORKS IN.	10.0	7/05	1530		12.59	7/06	1100
ANDERSON WATERWORKS IN.	10.0			7/12	15.79	7/09	2000
ANDERSON SEWAGE PLAN IN.	10.0				12.34	7/06	1400
ANDERSON SEWAGE PLAN IN.	10.0				15.22	7/09	2200
NOBLESVILLE IN.	14.0	7/06	0030		18.01	7/07	0700
NOBLESVILLE IN.	14.0			7/12	21.85	7/10	1600
NORA IN.	11.0	7/06	0845		14.41	7/07	1700

NORA IN.	11.0			7/13	17.78	7/11	0100
BROAD RIPPLE DAM IN.	6.0				7.43	7/07	1100
BROAD RIPPLE DAM IN.	6.0				8.98	7/11	0400
RAVENSWOOD IN.	6.0	7/06	1200		8.50	7/07	1030
RAVENSWOOD IN.	6.0			7/13	11.30	7/11	0300
INDIANAPOLIS MORRIS IN.	16.0				14.79	7/07	2130
INDIANAPOLIS MORRIS IN.	16.0	7/10	0945	7/12	17.19	7/11	0600
STOUT GENERATING STA IN.	10.0				10.57	7/07	2200
STOUT GENERATING STA IN.	10.0				12.08	7/11	1100
CENTERTON 1 S IN.	12.0	7/07	0930	7/14	16.89	7/12	0900
CENTERTON IN.	603.0	7/07	1700	7/14	608.00	7/12	0600
SPENCER IN.	14.0	7/07	2230	7/16	21.56	7/13	1600
WORTHINGTON IN.	18.0				24.50	7/13	0700
ELLISTON IN.	18.0	7/09	0800	7/18	25.83	7/14	1500
NEWBERRY IN.	13.0	7/10	0430	7/18	20.35	7/15	2000
EDWARDSPORT IN.	15.0	7/10	1000	7/20	22.00	7/17	0001
PETERSBURG 3 NE IN.	16.0				20.79	7/18	0600
PETERSBURG IN.	16.0	7/13	1730	7/21	20.97	7/18	0400
HAZLETON IN.	16.0	7/14	1900	7/23	20.80	7/18	0600

NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE
NOAA, NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA
INDIANAPOLIS, INDIANA

7/30/03

FLOOD STAGE REPORT

July 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
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WHITEWATER RIVER.....							
ECONOMY 2 NW IN.					8.76	7/09	0515
ALPINE 2 NE IN.	14.0				16.87	7/10	0800
BROOKVILLE IN.	20.0				9.35	7/10	0900
WILDCAT CREEK.....							
JEROME 1 SE IN.					14.35#	7/06	0015
JEROME 1 SE IN.					12.34	7/07	0700
JEROME 1 SE IN.					12.71	7/09	0800
KOKOMO IN.	10.0				17.78#	7/05	1115
KOKOMO IN.	10.0				17.55	7/06	0945
KOKOMO IN.	10.0				15.96	7/09	2215
LAFAYETTE 4 NE IN.	10.0				23.64#	7/07	0001
LAFAYETTE 4 NE IN.	10.0				17.54	7/09	1500
LAFAYETTE 4 NE IN.	10.0				18.00	7/10	2100
YOUNGS CREEK.....							
AMITY IN.	7.0				7.22	7/10	2145

Record Flood

Beginning October 3, 1994, the Chicago office assumed the Hydrologic Service Area of streams and rivers in the following northern Indiana counties: Lake, Porter, LaPorte, St. Joseph, Elkhart, Newton, Jasper, Starke, Marshall, Kosciusko, Benton, White, Pulaski and Fulton counties. This included the following Indiana rivers: Kankakee, Iroquois, St. Joseph, Yellow and much of the Tippecanoe Rivers. Beginning July 15, 1998, the Chicago office transferred the following northern Indiana counties to North Webster, Indiana: LaPorte, St. Joseph, Elkhart, Starke, Marshall, Kosciusko, White, Pulaski and Fulton counties. This includes the St. Joseph, Yellow, much of the Tippecanoe and the headwaters of the Kankakee Rivers..

Beginning December 1, 1994, the Wilmington, Ohio office assumed the Hydrologic Service Area of streams and rivers in the following east central and southeast Indiana counties: Dearborn, Fayette, Franklin, Ripley, Ohio, Switzerland, Union and Wayne. This included most of the Whitewater River Watershed in Indiana.

Beginning September 1, 1995, the Louisville, Kentucky office assumed the Hydrologic Service Area of streams and rivers in the following south central Indiana counties: Orange, Washington, Scott, Jefferson, Crawford, Harrison, Floyd, and Clark. This included the Blue River Watershed in south central, the Muscatatuck River Drainage in Jefferson County and most of the Lost River in south central Indiana.

Beginning February 1, 1996, the Louisville, Kentucky office assumed the Hydrologic Service Area of the streams and rivers in the following south central and southwest Indiana counties: Dubois and Perry. This included the Anderson River along the Perry/Spencer county line.

Beginning February 1, 1996, the Paducah, Kentucky office assumed the Hydrologic Service Area of the streams and rivers in the following southwest Indiana counties: Gibson, Pike, Posey, Spencer, Vanderburgh and Warrick. This included the Wabash River in the New Harmony, Indiana area.

Beginning July 15, 1998, the North Webster, Indiana office assumed the Hydrologic Service Area of the streams and rivers in the following north central and northeast Indiana counties: Lagrange, Steuben, Noble, Dekalb, Whitley, Allen, Adams, Wells, Huntington, Wabash, Grant, Blackford and Jay. This included the headwaters of the Wabash River, the Indiana portion of the St. Joseph, St. Marys and Maumee Rivers , the Salamonie and Eel Rivers and the downstream portion of the Mississinewa River .

Station File.

It is necessary to E-mail to the following people:

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MONTHLY REPORT OF RIVER AND
FLOOD CONDITIONS

MONTH: August YEAR: 2003

TO: Hydrometeorological Information Center
NOISE/Office of Hydrology, W/OH12x1
1325 East-West Highway, Room 7128
Silver Spring MD. 20910

SIGNATURE:

(In Charge of Hydrologic Service Area)

Date: March 12, 2007

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (WSOM E-41).

An **X** inside this box indicates that no flooding occurred within this hydrologic service area.

Storms continued to dominate the weather for much of August, however not nearly to the extent as during July. Monthly average temperatures were above normal for the first time since April and above normal rainfall continued in several areas of the HSA. Torrential rainfall as experienced during July did not occur.

Unsettled weather generally prevailed from the 1st through 17th. Heavy localized rain of up to 3 inches on the 3rd caused some local flood problems. Temperatures were slightly below average from the 1st through the 12th and warmed to slightly above normal from the 13th through the 17th.

A string of 9 consecutive dry days began on the 18th and continued through the 26th for much of the Indianapolis HSA. This was the longest string of dry days since April. As the dry weather persisted, central Indiana finally dried out for the first time this summer.

After the 19th, above normal temperatures set in and remained through the 30th. On the 21st the hottest weather was in the northern portion of the state where temperatures readings in the low and middle 90s were common. Because of wetter soils and lush vegetation, much of the southern and central portions of the HSA experienced temperatures only in the upper 80s and lower 90s.

As the dry spell continued into the last week of August, temperatures reached into the 90s across much of central and southern Indiana. The warmest day of the summer for the Indianapolis area occurred on the 27th as the temperatures climbed into the lower 90s. For only the second time this

summer in central Indiana, temperatures reached into 90s for three consecutive days on the 26th, 27th and 28th.

Once again unsettled weather returned by the 29th and continued through the end of the month. On the 29th portions of White and Carroll Counties in north central Indiana received 3 to 5 inches of rain. This rain was localized and only caused a small rise in the Tippecanoe and Wabash Rivers in Tippecanoe County. On the 31st portions on southern and central Indiana received 1 to 3 inches of rain. This storm system set the stage for an unprecedented rain event on September 1 in central Indiana.

For many areas in the Indianapolis HSA, monthly rainfall during August was below normal. A few areas in west central Indiana received less than an inch of rain. Others areas in western Indiana north of Interstate 70 received over 6 inches of rain. Most of the Indianapolis HSA received 2 to 4 inches of rain during August. Rain fell on 7 to 13 days during August. Several areas had 1 or 2 days with an inch or more of rain, while others had none.

Monthly temperatures averaged near normal to 1 1/2 degrees above normal. The two warmest days during August were the 21st in the northern portion of the HSA and the 27th in the central and southern portions of the HSA. The warmest temperatures reached into the lower and middle 90s. Temperatures reached 90 degrees on 3 to 9 days during the month. The coolest temperatures during August occurred on the 19th when temperatures fell into the upper 50s and lower 60s.

At the end of August, rain had just fallen in much of the HSA, wetting soils that had not received much rain in two or more weeks. Most streams and all rivers were at normal levels. Stream levels would dramatically change early on September 1.

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Station File.

It is necessary to E-mail to the following people:

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MONTHLY REPORT OF RIVER AND
FLOOD CONDITIONS

REPORT FOR:

MONTH: September YEAR: 2003

TO: Hydrometeorological Information Center
NOISE/Office of Hydrology, W/OH12x1
1325 East-West Highway, Room 7128
Silver Spring MD. 20910

SIGNATURE:

(In Charge of Hydrologic Service Area)

Date: March 12, 2007

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An **X** inside this box indicates that no flooding occurred within this hydrologic service area.

An unprecedented rain event occurred on the very first day of September. Indianapolis received the most rain ever for a calendar day, breaking a record set 108 years ago. This 7.20 inch total surpassed the previous 6.80 inch record. Much of central Indiana received 6 to 8 inches of rain on this day. The resulting floods were disastrous for much of central Indiana.

According to a local newspaper account, nearly 3,000 residents applied for flood assistance and flood damage was estimated in excess of 20 million dollars. Early SEMA reports indicated more than 300 homes and nearly 60 businesses were flooded. Nearly 200 people were forced to evacuate. One elderly female lost her life when she drove into a flooded road and was swept into Fall Creek on the eastside of Indianapolis. Total flood damage may approach that of the July 2003 flood which was estimated at 100 million dollars.

Serious flooding came quickly to many areas of central Indiana on September 1. The White River in the southern portion of Marion County crested that evening at near major levels about 9 hours after the end of the heavy rain. This was an incredible rise of 15 feet in just 18 hours.

Many small streams in central Indiana flooded extensively and some reached record levels. Record flooding occurred along White Lick Creek in Hendricks and Morgan Counties and along Fall Creek in Indianapolis. The Speedway area saw its worst flooding since June 1957. In many recently developed areas of Hendricks, Marion, Hamilton and Madison counties, flooding occurred in areas where it had never flooded before. Flooding affected hundreds of homes and numerous roads. Many roads were flooded by several feet of water.

On the 2nd, major flooding developed downstream of Indianapolis in Morgan County. The greatest flood since January 1, 1991 on the White River from Indianapolis met the record flood on White

Lick Creek just above Centerton and produced the largest flood ever seen in Morgan County since March 1913. This flood raced downstream and struck Owen County on the 3rd. The near major flooding in Owen County was the worst since January 1991.

As this flood wave approached Greene County, the flood transformed to an extensive agricultural flood and its speed slowed. A near major flood along the Eel River in the Bowling Green area met this large flood along the White River at Worthington. The resulting flood in Greene County exceeded July's flood by 2 1/2 feet. This was the biggest flood in Greene County since May 2002.

Flooding along the White River from Edwardsport to Petersburg exceeded July's high water by 1 to 1 1/2 feet. In the Hazleton area this flood approached the July flood level.

At the same time this flood wave was moving southwest on the 2nd, another flood crest started in the headwaters of the White River. The cities of Muncie and Anderson had near major flooding as the White River crested at its highest level since April 1964 and June 1958 respectively. While the city proper of Muncie was protected by levees, considerable flood damage occurred in areas just outside of the city proper. Sandbagging in the city of Anderson saved more than 100 homes from flood damage. The local flood protection would have been overtopped without the sandbagging.

This headwater flood wave caused extensive flooding in Hamilton County, but levels were nearly 2 feet below those of July. The north side of Indianapolis experienced levels more than 2 feet below those of July. This flood wave washed out as it approached the south side of Indianapolis.

Major agricultural damage occurred along the Eel and White Rivers as a result of the September flood. Lesser flooding occurred along the Wabash River, where crops had been previously destroyed by the July flood. Lowland flooding also occurred along the Big Blue River, Sugar Creek and East Fork White River in Jackson County.

River flood warnings were issued before the end of the heavy rain on the 1st. Several phone briefings occurred during the 1st with the Indianapolis Department of Public Works. The seriousness of the local flooding and quickly ensuing river flooding was stressed. Local river residents on the south side of Indianapolis did not have time to fight the flood.

On the 2nd special early morning calls were made to officials in Delaware, Madison, Hamilton, Morgan and Owen counties alerting them to the speed and seriousness of the flood situation. SEMA was notified about the possible need for help in these areas. The worst situation turned out to be at Anderson, where a levee was sandbagged and saved.

On the 3rd special calls were made or received from the same areas advising of the latest river indications. The rapid fall predicted and which did occur after crest passage was very helpful to the flood fighters. Calls were made to officials in Knox and Daviess County to inform them that flooding would be higher than July, but not a major flood.

The rain ended by the 2nd, and central Indiana remained nearly dry through the 20th. This allowed flooded streams and rivers to fall quickly once the crest passed. Flooding in much of central Indiana had ended by the 6th and flooding along the White River in southwest Indiana ended by the 13th. By the 20th soils in much of Indiana were on the dry side.

Once again rain returned to central Indiana on the 22nd and 26th. Rainfall of over an inch on the 22nd pushed this September into 2nd place for the rainiest September of record at Indianapolis. Strong storms on the 26th made this the wettest September of record and the 10th wettest month of record at Indianapolis. The last time Indianapolis experienced a wetter month was July 1992.

The storms on the 26th dropped 1 to 2 inches of rain on portions of central Indiana. Because the Wabash River was nearly bankfull from rain on the 22nd, lowland flooding returned to portions of the Wabash River by the 27th. Flood levels along the Wabash River were slightly higher in the Lafayette area than earlier in the month, but lower by 1 to 3 feet from Covington to Vincennes. This rain caused the White River to approach bankfull levels from Muncie to Edwardsport.

The storms on the 26th spawned a small tornado in Hamilton County. Fortunately, a repeat of last September did not occur.

In one week, the temperature went from the upper 70s and lower 80s on the 23rd to the middle 30s on the 30th. September finished with very cool temperatures.

Monthly rainfall was much above normal for most the Indianapolis HSA. Several areas of central Indiana including Indianapolis had record monthly rainfall. Monthly totals ranged from 3 to more than 11 inches of rain. Rain fell on 10 days during September. Several areas had 3 days with an inch of more of rain.

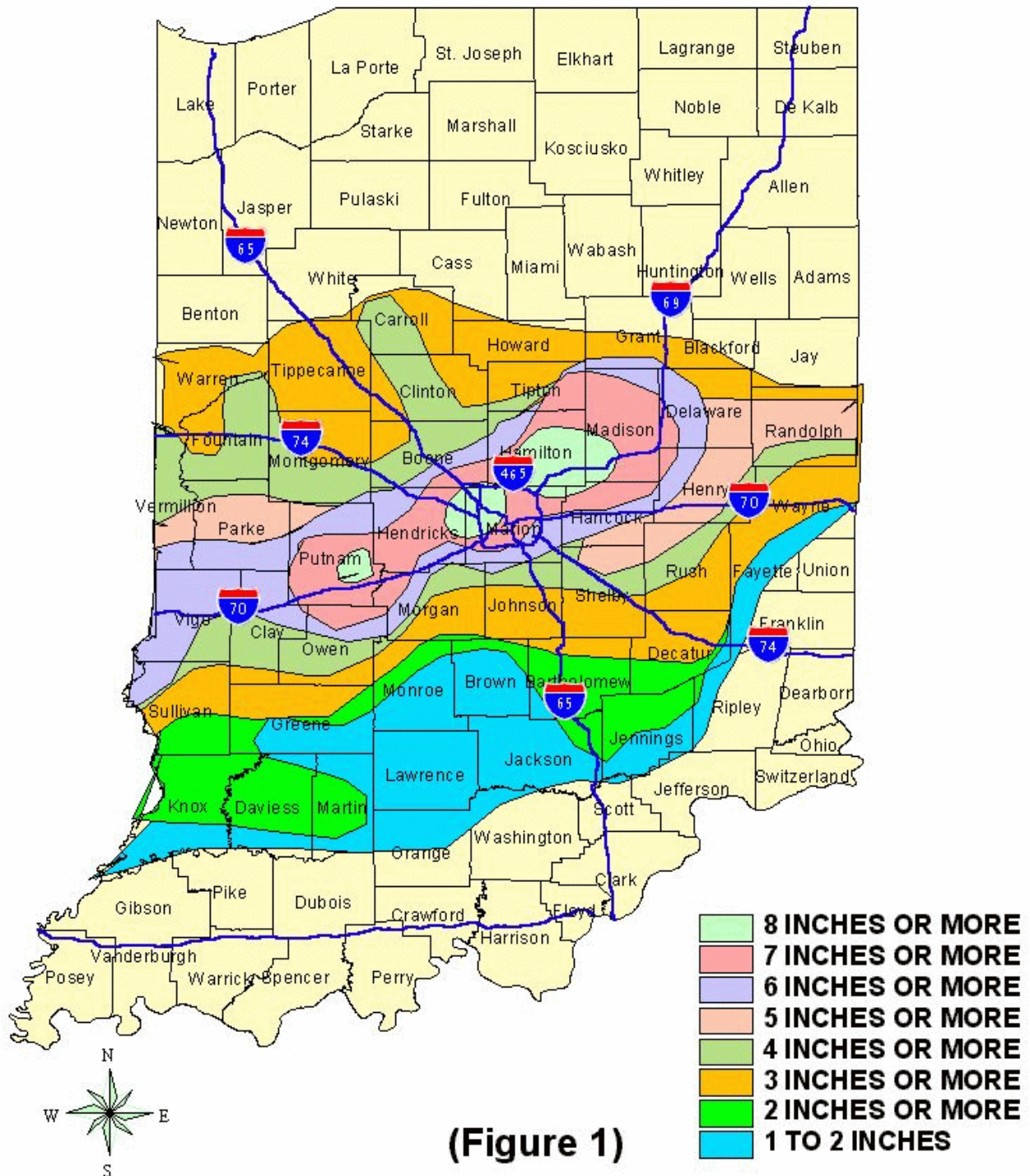
Monthly temperatures averaged 1 to 2 degrees below normal. The warmest days during September were from the 10th to the 13th when the temperature reached into the lower 80s. The coldest temperatures were on the 30th when temperatures dropped into the upper 30s.

Since the temperature did not reach 90 during September, Indianapolis ended the season with only 6 days at 90 or higher. This contrasted with 36 last year and was the least since 2000.

At the end of September, it was very cool and soils were on the wet side. Streams and rivers were flowing with far more water than what is typical for the end of September. Lowland flooding was in progress along the Wabash River.

Central Indiana Precipitation

August 31 (0800) - September 2 (0800)



STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
BIG BLUE RIVER.....							
CARTHAGE IN.	7.0				9.98	9/02	0600
SHELBYVILLE IN.	11.0				13.78	9/03	1430
BIG RACCOON CREEK.....							
FINCASTLE 3 W IN.	11.0				16.35	9/01	2200
COXVILLE IN.	14.0				14.67	9/02	0100
BIG WALNUT CREEK.....							
Roachdale 3.5 SE IN.					19.67	9/01	1645
REELSVILLE IN.	12.0				16.63	9/03	0200
BRUSH CREEK.....							
NEBRASKA .					4.69	9/01	2030
BUCK CREEK.....							
NEW MIDDLETOWN 3.6 SW IN.	12.0				4.82	9/02	1015
ACTON IN.	9.0				10.41	9/02	0630
BUSSEYON CREEK.....							
CARLISLE 2 NW IN.	16.0				10.80	8/31	1530
CARLISLE 2 NW IN.	16.0				9.78	9/01	2230
CARLISLE 2 NW IN.	16.0				10.75	9/05	0001
CLIFTY CREEK.....							
HARTSVILLE IN.	10.0				3.98	9/02	1645
DEER CREEK.....							
DELPHI 2.6 NE IN.					5.72	9/02	0030
EAGLE CREEK.....							
ZIONSVILLE IN.	9.0				12.34	9/01	1730
SPEEDWAY IN.	9.0				16.57	9/01	1430
EAST FORK WHITE R.....							
COLUMBUS IN.	9.0				6.49	9/04	1200
SEYMOUR 2 N IN.	12.0	9/03	0400	9/06	14.19	9/05	1600
BEDFORD 8SE IN.	20.0				16.48	9/08	0400
WILLIAMS IN.	8.0				5.60	9/08	0700
SHOALS HIWAY 50 BRID IN.	20.0				8.83	9/08	1600
EAST FORK WHITEWATER.....							
ABINGTON IN.	12.0				13.95	9/02	0230
EEL RIVER.....							
BOWLING GREEN IN.	17.0	9/01	1730	9/04	20.77	9/02	2000

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
EEL RIVER...NORTH.....							
NORTH MANCHESTER IN.	7.0				9.35	9/02	1500
ADAMSBORO IN.	10.0				6.95	9/02	1900
EMBARRAS RIVER.....							
Carmargo 2 SW IL.	12.0				9.02	9/03	0945
STE MARIE IL.	19.0				13.97	9/02	2015
LAWRENCEVILLE IL.	29.0				29.53	9/04	1211
FALL CREEK.....							
FORTVILLE 2 NW IN.	8.0				9.83	9/02	2000
MILLERSVILLE IN.	9.0				15.70#	9/02	0400
FLATROCK RIVER.....							
ST. PAUL IN.	6.0				4.12	9/02	0930
ST. PAUL IN.	6.0				4.50	9/03	2300
HARBERTS CREEK.....							
Madison IN.	6.0				5.50	9/01	2245
Madison IN.	6.0				7.48	9/02	1745
LEARY-WEBER DITCH.....							
Mohawk IN.					5.32	9/01	1645
LITTLE BUCK CREEK.....							
INDIANAPOLIS IN.					6.21	9/01	1945
INDIANAPOLIS IN.					7.20	9/01	0545
LITTLE EAGLE CREEK.....							
SPEEDWAY IN.					9.45	9/01	0600
SPEEDWAY IN.					12.79	9/01	1545
LITTLE RIVER.....							
HUNTINGTON 5 W IN.	15.0				10.25	9/02	0700
MILL CREEK.....							
CATARACT 3 E IN.	15.0				17.62	9/03	0700
MANHATTAN 5 S IN.	12.0				11.34	9/02	0900
MANHATTAN 5 S IN.	12.0				14.30	9/02	0400
MISSISSINewa RIVER.....							
RIDGEVILLE 2 E IN.	11.0				14.77	9/02	0200
MARION 2 N IN.	10.0				10.57	9/02	0800
MUSCATATUCK RIVER.....							
Deputy 1WNW IN.	15.0				22.76	9/03	0030
VERNON 1SW 1 SW IN.	17.0				7.06	9/02	1830
VERNON 1SW 1 SW IN.	17.0				8.27	9/02	0500
WHEELER HOLLOW IN.	16.0				18.80	9/07	0700

Modern Day Record Flood

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
N. F. EMBARRAS RIVER..... OBLONG 2 W IL.					15.72	9/03	1315
N.F. Vermilion River..... Bismarck 2 W IL.					13.60	9/02	1045
PIPE CREEK..... FRANKTON PIPE CREEK IN.	12.0				10.73	9/02	0730
SALAMONIE RIVER..... WARREN 2.4 NW IN.	12.0				10.97	9/03	1700
SALT CREEK..... HARRODSBURG 2 SE IN.	25.0				14.78	9/02	0100
SILVER CREEK..... SELLERSBURG 2.4 SE IN.	20.0				11.92	9/02	1100
SELLERSBURG 2.4 SE IN.	20.0				11.54	9/03	0900
SUGAR CREEK..... CRAWFORDSVILLE IN.	8.0				6.59	9/02	0001
SUGAR CREEK...SOUTH..... NEW PALESTINE IN.	8.0				7.71	9/02	0315
NEW PALESTINE IN.	8.0				8.83	9/03	1200
EDINBURGH 2 NW IN.	10.0				11.09	9/03	0600
TIPPECANOE RIVER..... DELPHI 6 W IN.	8.0				5.90	9/02	0400
VERMILION RIVER..... DANVILLE 2 SE IL.	18.0				19.42	9/02	1245
WABASH RIVER..... LINN GROVE IN.	11.0				11.35	9/03	2100
BLUFFTON IN.	10.0				11.95	9/04	1300
WABASH IN.	12.0				11.19	9/02	0500
PERU IN.	20.0				9.72	9/05	2000
LOGANSPOUT CICOTT ST IN.	17.0				8.72	9/02	2100
LAFAYETTE IN.	11.0	9/01	2230	9/06	15.98	9/03	0600
LAFAYETTE IN.	11.0	9/27	0130	9/30	16.47	9/28	0700
COVINGTON IN.	16.0	9/01	1900	9/07	20.33	9/04	1000
COVINGTON IN.	16.0	9/27	0515	10/02	20.08	9/29	2000
MONTEZUMA IN.	14.0	9/01	1045	9/09	22.30	9/03	0100
MONTEZUMA IN.	14.0	9/27	1030	10/03	18.79	9/30	1000
TERRE HAUTE WTR CORP IN.	14.0	9/01	1615	9/09	19.37	9/04	0001
TERRE HAUTE WTR CORP IN.	14.0	9/28	0300	10/03	16.47	10/01	0400

NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE
 NOAA, NATIONAL WEATHER SERVICE
 10/03/03 FLOOD STAGE REPORT

HYDROLOGIC SERVICE AREA
 INDIANAPOLIS, INDIANA
 September 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
WABASH RIVER continued.....							
HUTSONVILLE IL.	16.0	9/01	2000	9/12	20.90	9/06	2300
HUTSONVILLE IL.	16.0	9/28	1900	10/06	18.40	10/02	0700
RIVERTON IN.	15.0	9/01	2245	9/12	18.92	9/08	0100
RIVERTON IN.	15.0	9/29	0630	10/06	16.90	10/03	0800
VINCENNES IN.	17.5	9/07	1700	9/10	17.75	9/09	0300
VINCENNES 1 W IN.	16.0	9/06	1700	9/11	16.50	9/08	1800
MOUNT CARMEL IL.	19.0	9/10	2100	9/13	19.90	9/12	0001
NEW HARMONY IN.	15.0				15.13	9/12	1100
WHITE LICK CREEK.....							
MOORESVILLE IN.	17.0				23.32*	9/02	0400
WHITE RIVER.....							
MUNCIE IN.	9.0	9/01	1830	9/03	14.02	9/02	1600
ANDERSON WATERWORKS IN.	10.0	9/01	1415	9/04	19.52	9/03	0300
ANDERSON SEWAGE PLAN IN.	10.0				17.24	9/03	0500
NOBLESVILLE IN.	14.0	9/01	1915	9/05	19.99	9/04	0200
NORA IN.	11.0	9/01	1330	9/05	15.35	9/04	1100
BROAD RIPPLE DAM IN.	6.0				7.71	9/04	1400
RAVENSWOOD IN.	6.0	9/01	1500	9/05	9.50	9/04	1330
INDIANAPOLIS MORRIS IN.	16.0	9/01	1415	9/02	19.65	9/01	2030
STOUT GENERATING STA IN.	10.0				15.44	9/01	2000
CENTERTON 1 S IN.	12.0	9/01	1400	9/06	19.87#	9/02	2200
CENTERTON IN.	603.0	9/01	1600	9/06	611.70#	9/03	0001
SPENCER IN.	14.0	9/02	0500	9/08	23.30	9/04	0400
WORTHINGTON IN.	18.0				26.64	9/05	1500
ELLISTON IN.	18.0	9/02	0800	9/09	28.10	9/06	0800
NEWBERRY IN.	13.0	9/02	1730	9/09	22.93	9/06	1900
EDWARDSPORT IN.	15.0	9/03	1500	9/11	23.30	9/07	0001
PETERSBURG 3 NE IN.	16.0				21.47	9/10	0100
PETERSBURG IN.	16.0	9/07	0900	9/12	21.54	9/10	0200
HAZLETON IN.	16.0	9/08	1500	9/13	20.70	9/11	1530
WHITEWATER RIVER.....							
ECONOMY 2 NW IN.					8.76	9/01	1530
ALPINE 2 NE IN.	14.0				18.68	9/02	1900
BROOKVILLE IN.	20.0				10.33	9/03	0800
WILDCAT CREEK.....							
JEROME 1 SE IN.					10.63	9/02	0445
KOKOMO IN.	10.0				12.05	9/01	1445
KOKOMO IN.	10.0				10.83	9/02	1800
LAFAYETTE 4 NE IN.	10.0				13.19	9/02	1800
LAFAYETTE 4 NE IN.	10.0				13.22	9/27	1300
YOUNGS CREEK.....							
AMITY IN.	7.0				8.76	9/02	2115

* Preliminary Tied Record Flood
 # Modern Day Record Flood

It is necessary to E-mail the following people:

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The NOISE FORM E-5 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	U.S. DEPARTMENT OF COMMERCE INDIANAPOLIS, INDIANA	HYDROLOGIC SERVICE AREA:
MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS		REPORT FOR: MONTH: October YEAR: 2003
TO: Hydrometeorological Information Center NOISE/Office of Hydrology, W/OH12x1 1325 East-West Highway, Room 7128 Silver Spring MD. 20910	SIGNATURE: (In Charge of Hydrologic Service Area) Date: March 12, 2007	

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (WSOM E-41).



An X inside this box indicates that no flooding occurred within this hydrologic service area.

October was mostly uneventful month weather wise. October began very cool and ended very mild. Temperatures fluctuated frequently during the month. Overall, the monthly temperature and rainfall was fairly close to normal for the Indianapolis HSA.

Early November like temperatures from the end of September continued through the 3rd. Minimum temperatures fell into the upper 20s and lower 30s across much of the HSA. This brought an early end to the growing season. Temperatures rebounded and were in the 70s from the 7th through the 13th. During the first 13 days of October only light rainfall occurred.

On the 14th rain of 1 to nearly 2 inches fell in much of the Indianapolis HSA. This was the rainiest day of October for most of the HSA. This rain accounted for more than one half of the monthly total for most areas.

Very cool and windy conditions accompanied this rain as October like temperatures remained through the 18th. Temperatures soared into the upper 70s and lower 80s on the 20th, the warmest day of the month.

More typical October weather prevailed from the 21st through the 29th. Rain of one half to slightly more than an inch of rain fell on the 25th and 26th in the Indianapolis HSA. The most rain from this event occurred in the southeast portion of the HSA.

Steady southwest winds on the 30th and 31st provided late September like weather to end October. Temperatures reached into the lower 70s. The average temperature on Halloween was the warmest since 1974.

Lowland flooding from rain on September 26 ended along the Wabash River by the 6th. For most of the month, streams levels gradually declined. Because of the wet September and normal rainfall during October, stream flow during October remained above normal.

Monthly rainfall ranged from below normal in most western portions of the HSA to above normal in east central and southeast portions of the Indianapolis HSA. Monthly totals ranged from slightly over an inch to nearly 4 inches. Most the HSA received between 2 and 3 inches of rain during October. Rain of 1 inch or more fell on 1 day in much of the HSA. Measurable rain fell on 7 to 8 days during the month.

Monthly temperatures averaged from near normal to 2 degrees below normal. The southwest portion of the HSA averaged the warmest temperatures while the northeast portions the coolest. The warmest days during October were on the 8th and 20th when temperatures reached into the upper 70s and lower 80s. The coldest temperatures were on the 2nd or 3rd when temperatures dropped into the upper 20s and lower 30s.

At the end of October, it was quite warm and soils were slightly on the wet side. Streams and rivers were well within their banks with flow slightly above normal for the end of October.

NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE
 NOAA, NATIONAL WEATHER SERVICE
 10/03/03 FLOOD STAGE REPORT

HYDROLOGIC SERVICE AREA
 INDIANAPOLIS, INDIANA
 September 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
WABASH RIVER.....							
COVINGTON IN.	16.0	9/27	0515	10/02	20.08	9/29	2000
MONTEZUMA IN.	14.0	9/27	1030	10/03	18.79	9/30	1000
TERRE HAUTE WTR CORP IN.	14.0	9/28	0300	10/03	16.47	10/01	0400
HUTSONVILLE IL.	16.0	9/28	1900	10/06	18.40	10/02	0700
RIVERTON IN.	15.0	9/29	0630	10/06	16.90	10/03	0800

It is necessary to E-mail the following people:

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The NOISE FORM E-5 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	U.S. DEPARTMENT OF COMMERCE INDIANAPOLIS, INDIANA	HYDROLOGIC SERVICE AREA:
MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS		REPORT FOR: MONTH: November YEAR: 2003
TO: Hydrometeorological Information Center NOISE/Office of Hydrology, W/OH12x1 1325 East-West Highway, Room 7128 Silver Spring MD. 20910	SIGNATURE: (In Charge of Hydrologic Service Area) Date: March 12, 2007	

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (WSOM E-41).



An **X** inside this box indicates that no flooding occurred within this hydrologic service area.

November was a mild and relatively wet month in the Indianapolis HSA. Frequent rainfall during the last half of the month caused lowland river flooding in the western and southern portions of the HSA. Cold air would occasionally intrude into central and southern Indiana and then retreat.

Very warm temperatures from the end of October continued into early November. Record or near record high temperatures occurred during 3 out of the first 4 days in November. The maximum temperature of 78 degrees at Indianapolis on the 4th was a record for the date and the warmest recorded so late in the season.

Temperatures from the 5th through the 15th were generally below normal. A brief warm-up from the 10th through the 12th saw maximum temperatures jump into the 50s and 60s after being generally in the 40s. Winds gusted to 58 mph at Indianapolis on the evening of the 12th as cold air replaced this brief warm spell.

From the 16th through the 23rd very warm temperatures prevailed. Maximum temperatures reached into the 50s and 60s each day. Early on the 17th a very dense fog covered much of Indiana as a result of clear skies with calm winds, long November night and moist air.

The coldest air during November arrived on the 24th and 25th as temperatures dropped into the middle and lower 20s. Temperatures were slightly above normal temperatures from the 26th through the 30th.

Relatively dry conditions from the end of October continued through the 10th. Streams levels dropped to below normal levels because generally less than 1/2 inch of rain fell in much of the

HSA during this period. Above normal rainfall returned on the 11th and remained through the end of November. There were 4 significant rainfall events during this time.

The first significant rain event occurred late on the 11th when 1/2 to nearly an inch of rain fell in portions of the HSA. This rainfall only had a slight effect on most streams in the HSA. A larger response occurred in the Illinois portion of the Wabash River Basin where more rain fell.

The next three rain events would continue to add water to portions of the Wabash River Basin. Rain of around 1 to possible 2 inches fell in much of the HSA on the 18th and again late on the 23rd and early 24th. This rain caused lowland flooding to develop along portions of the Wabash River in western Indiana and eastern Illinois.

Rain of 1 to 2 inches fell in much of southern Indiana on the 27th and 28th and caused lowland flooding in much of Jackson County along the East Fork White and Muscatatuck Rivers. Bankfull conditions occurred along the East Fork White and White Rivers in south central and southwest Indiana as a result of this rain.

During the month flood crests ranged from near flood stage to 4 feet above flood stage. Flooding lasted from 1 to 8 days. Flooding affected fallow agricultural lands and a few state and local roads primarily in Jackson County.

Monthly rainfall ranged from below normal in north central portions of the HSA to above normal in southern areas. Monthly totals ranged from slightly less than 3 inches to more than 7 inches. Most of the HSA north of I-70 received between 3 and 5 inches of rain. South of I-70 most areas received between 5 and 7 inches.

Rain of 1 inch or more fell on 1 or 2 days in much of the HSA, particularly areas south of I-70. Measurable rain fell on 11 to 13 days during the month. The season's first snowfall occurred on the 24th and measurable snow of less than an inch followed on the 28th.

Monthly temperatures averaged from 3 to 4 1/2 degrees above average. The warmest days during November were on the 3rd and 4th when temperatures reached into the upper 70s to near 80. The coldest temperatures were on the 25th as temperatures dropped into the low 20s. Temperatures fell below 33 degrees on 8 to 12 days during the month.

At the end of November, it was relatively warm and soils were wet particularly in southern and eastern Indiana. Streams and rivers were at above normal levels for the end of November with some lowland flooding in progress.

12/11/03 FLOOD STAGE REPORT

November 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
BIG BLUE RIVER..... SHELBYVILLE IN.	11.0				9.94	11/28	0400
BUSSERON CREEK..... CARLISLE 2 NW IN.	16.0				9.26	11/24	0930
Bonpas Creek..... Browns IL.					7.03	11/24	2030
CLIFTY CREEK..... HARTSVILLE IN.	10.0				5.63	11/27	1800
EAST FORK WHITE R..... COLUMBUS IN.	9.0				6.76	11/29	0330
SEYMOUR 2 N IN.	12.0	11/19	1800	11/20	12.71	11/20	0300
SEYMOUR 2 N IN.	12.0	11/28	0030	12/01	15.93	11/29	0900
BEDFORD 8SE IN.	20.0	12/01	1700	12/03	20.87	12/02	1700
BEDFORD 4 SW IN.	20.0				17.80	12/02	1500
WILLIAMS IN.	8.0				7.50	12/03	0700
SHOALS HIWAY 50 BRID IN.	20.0				13.58	12/03	1100
EAST FORK WHITEWATER..... ABINGTON IN.	12.0				12.00	11/27	1600
EEL RIVER..... BOWLING GREEN IN.	17.0				11.80	11/24	1400
EEL RIVER...NORTH..... NORTH MANCHESTER IN.	7.0				7.12	11/19	0945
EMBARRAS RIVER..... Carmargo 2 SW IL.	12.0				8.78	11/25	0845
STE MARIE IL.	19.0				13.40	11/24	2345
LAWRENCEVILLE IL.	29.0				29.55	11/25	2051
FALL CREEK..... MILLERSVILLE IN.	9.0				5.86	11/29	0700
FLATROCK RIVER..... ST. PAUL IN.	6.0				5.29	11/27	2030
LEARY-WEBER DITCH..... Mohawk IN.					4.35	11/24	0630
M.F. Vermilion River..... Oakwood 2 NE IL.					7.80	11/19	0015
MILL CREEK.....							

CATARACT 3 E IN. 15.0 11.38 11/24 1500

NWS FORM E-3 U.S. DEPARTMENT OF COMMERCE
NOAA, NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA
INDIANAPOLIS, INDIANA

12/11/03 FLOOD STAGE REPORT

November 2003

STREAM AND LOCATION	FLOOD STAGE	ABOVE FLOOD FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
MISSISSINAWA RIVER..... RIDGEVILLE 2 E IN.	11.0				10.14	11/28	1500
MUSCATATUCK RIVER..... Deputy 1WNW IN.	15.0				17.73	11/12	1830
Deputy 1WNW IN.	15.0				14.74	11/19	1100
Deputy 1WNW IN.	15.0				16.51	11/28	1530
VERNON 1SW 1 SW IN.	17.0				9.60	11/12	1030
WHEELER HOLLOW IN.	16.0				18.00	11/22	0800
WHEELER HOLLOW IN.	16.0				20.30	12/01	0800
N. F. EMBARRAS RIVER..... OBLONG 2 W IL.					14.56	11/25	0515
N.F. Vermilion River..... Bismarck 2 W IL.					11.98	11/19	1830
PIPE CREEK..... FRANKTON PIPE CREEK IN.	12.0				6.53	11/24	1930
Patoka River..... JASPER IN.	14.0				12.05	11/28	0800
Winslow IN.					16.32	11/29	1300
PRINCETON 2 MI NE IN.	18.0				10.07	11/30	1100
SALT CREEK..... HARRODSBURG 2 SE IN.	25.0				18.55	11/27	1100
SILVER CREEK..... SELLERSBURG 2.4 SE IN.	20.0				11.59	11/27	2300
SUGAR CREEK...SOUTH..... NEW PALESTINE IN.	8.0				5.74	11/28	1630
EDINBURGH 2 NW IN.	10.0				8.50	11/29	0100
TIPPECANOE RIVER..... ORA 1 SW IN.	11.0				9.49	11/25	0930
MONTICELLO IN.	9.0				5.99	11/25	0001
DELPHI 6 W IN.	8.0				6.61	11/24	1600
VERMILION RIVER..... DANVILLE 2 SE IL.	18.0				13.65	11/19	1430
WABASH RIVER.....							

LINN GROVE IN.	11.0			8.76	11/30	0500
BLUFFTON IN.	10.0			9.11	11/30	1600
PERU IN.	20.0			8.85	11/30	0400
LOGANSPORT CICOTT ST IN.	17.0			7.11	11/30	0600
LAFAYETTE IN.	11.0			9.74	11/25	0400
COVINGTON IN.	16.0			15.43	11/25	1800
MONTEZUMA IN.	14.0	11/19	2000	11/23	16.01	11/21 0700

STREAM AND LOCATION	FLOOD STAGE	ABOVE FROM	FLOOD TIME	STAGE TO	CREST STAGE	CREST DATE	CREST TIME
WABASH RIVER continued.....							
MONTEZUMA IN.	14.0	11/24	0900	11/28	16.79	11/25	1500
TERRE HAUTE WTR CORP IN.	14.0	11/21	0500	11/22	14.15	11/21	1400
TERRE HAUTE WTR CORP IN.	14.0	11/24	1930	11/27	15.01	11/25	2300
HUTSONVILLE IL.	16.0	11/21	1200	11/23	16.50	11/22	0800
HUTSONVILLE IL.	16.0	11/24	0200	11/29	17.50	11/26	1600
RIVERTON IN.	15.0	11/22	1200	11/23	15.06	11/22	2200
RIVERTON IN.	15.0	11/24	0600	11/29	16.09	11/27	1000
VINCENNES IN.	17.5				15.40	11/27	1300
VINCENNES 1 W IN.	16.0				14.26	11/27	0800
MOUNT CARMEL IL.	19.0				16.57	11/30	0001
NEW HARMONY IN.	15.0				12.89	11/30	1100
WHITE RIVER.....							
MUNCIE IN.	9.0				7.15	11/28	2200
ANDERSON WATERWORKS IN.	10.0				8.22	11/29	0300
ANDERSON SEWAGE PLAN IN.	10.0				7.86	11/29	0500
NOBLESVILLE IN.	14.0				9.91	11/29	1300
NORA IN.	11.0				7.46	11/29	1800
BROAD RIPPLE DAM IN.	6.0				4.90	11/29	2300
SPENCER IN.	14.0				11.63	11/30	1800
WORTHINGTON IN.	18.0				16.34	11/25	0900
ELLISTON IN.	18.0				17.00	11/26	0800
NEWBERRY IN.	13.0				11.73	11/28	1500
EDWARDSPORT IN.	15.0				14.90	11/28	1900
PETERSBURG 3 NE IN.	16.0				16.70	11/30	0100
PETERSBURG 3 NE IN.	16.0				16.36	12/03	1800
PETERSBURG IN.	16.0	11/28	2000		16.89	11/30	0100
PETERSBURG IN.	16.0			12/05	16.61	12/03	1900
WHITEWATER RIVER.....							
ECONOMY 2 NW IN.					5.48	11/27	1415
ALPINE 2 NE IN.	14.0				15.72	11/28	0100
BROOKVILLE IN.	20.0				9.25	11/28	1300
YOUNGS CREEK.....							
AMITY IN.	7.0				5.52	11/27	1600

It is necessary to E-mail the following people:

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The NOISE FORM E-5 NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	U.S. DEPARTMENT OF COMMERCE INDIANAPOLIS, INDIANA	HYDROLOGIC SERVICE AREA:
REPORT FOR: MONTHLY REPORT OF RIVER AND FLOOD CONDITIONS		MONTH: December YEAR: 2003
TO: Hydrometeorological Information Center NOISE/Office of Hydrology, W/OH12x1 1325 East-West Highway, Room 7128 Silver Spring MD. 20910	SIGNATURE: (In Charge of Hydrologic Service Area) Date: March 12, 2007	

When no flooding occurs, include miscellaneous river conditions, such as significant rises, record low stages, ice conditions, snow cover, droughts and hydrologic products issued (WSOM E-41).

An X inside this box indicates that no flooding occurred within this hydrologic service area.

December 2003 was a somewhat mild and relatively dry month in the Indianapolis HSA. Rainfall during the last 10 days of the month caused some lowland river flooding in western and southern portions of the HSA. Temperatures were near normal for the first week followed by a generally cold spell that lasted two weeks. The last week of December was warm with the high temperatures occasionally in the 50s and 60s.

Relatively dry and mild conditions prevailed through the first three weeks of December in much of the HSA. A snow and ice storm affected much of northern Indiana on the 5th, but only brushed the northern portion of the HSA. During this time rivers and streams returned to near normal levels and soils dried slightly.

The coldest air during December arrived on the 20th as temperatures dropped into the teens. Temperatures quickly warmed as a storm system approached. This storm system brought the greatest rain of the month to the Indianapolis HSA. On the 22nd and 23rd much of central Indiana received 1 to 2 inches of rain with some isolated locations reporting nearly 3 inches. This caused mostly bankful rises in streams and rivers. Lowland flooding occurred along small portions of the White and Wabash Rivers in western and southern Indiana.

The cold side of the storm system on the 23rd produced around inch snow on the day before Christmas. A trace of snow during Christmas Eve provided Indianapolis with a slight white touch for Christmas Day.

Mild weather returned after Christmas. The warmest temperatures of December occurred on the 28th as temperatures reached into the upper 50s and lower 60s across the Indianapolis HSA. Rainfall on the 29th of about one half inch throughout much of central

Indiana kept soils wet and rivers high. This was only a prelude to a very wet period that would unfold during the early days of the New Year.

Monthly melted precipitation was below normal across much of the HSA. Totals ranged from slightly less than 2 inches to slightly more than 4 inches. More than 50% of the monthly melted precipitation total fell on the 23rd. Rain of 1 inch or more fell on 1 day in much of the HSA. Measurable precipitation fell on 11 to 13 days during the month.

Monthly snowfall was also below normal for much of the HSA. Snowfall totals ranged from 1 to nearly 9 inches. Most of the HSA received 3 to 6 inches.

Monthly temperatures averaged from 2 1/2 degrees above normal. The warmest day during December was the 28th when temperatures reached into the upper 50s and lower 60s. The coldest temperatures occurred on the 20th as temperatures dropped into the teens. Temperatures fell below 33 degrees on 20 to 24 days during the month. Temperatures remain below 33 degrees only on 4 to 6 days.

At the end of December, rivers were at bankfull levels, soils very wet and the first storm system of the New Year was taking shape.

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