

NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA)	
		NORTHERN INDIANA (IWX)	
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR:	
		MONTH	YEAR
		JANUARY	2014
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		SIGNATURE	
		Michael Rehbein Service Hydrologist	
		DATE	
		February 13, 2014	

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

...Record cold and snow across the Northern Indiana HSA...

Record cold temperatures were observed across much of the Northern Indiana HSA. A deep trough of low pressure settled across the Great Lakes region which allowed several storm systems to move across the area bringing snow and sometimes bitterly cold temperatures. As a matter of fact, temperatures in the interior of Alaska were significantly warmer than here in northern Indiana. This bitterly cold air resulted in average temperatures of 6 to 10 degrees below normal. Precipitation values were slightly above the climatological normals.

At the Fort Wayne airport, the average high temperature was 26.2 degrees. This was 6.2 degrees below the normal value of 32.4 degrees. The average low temperature was 7.8 degrees which was 9.6 degrees below the normal value of 17.4 degrees. This resulted in an average temperature of 17 degrees which was 7.9 degrees below the normal of 24.9 degrees. The warmest temperature was 45 degrees on the 13th while the coldest temperature was -16 degrees on the 28th. Precipitation was above normal for the month while snowfall was well above normal. There was 2.59 inches of liquid equivalent precipitation. This was 0.33 inches above the normal value of 2.26 inches. The greatest 24-hour liquid equivalent observation was 0.84 inches on the 5th. There was a record shattering 30.3 inches of snow reported. This was 20.2 inches above the normal value of 10.1 inches. This brought the seasonal snow total to 41.2 inches. This was nearly double the normal value of 20.7 inches. The greatest 24-hour snowfall was a record breaking 9.5 inches on the 5th. The greatest snow depth was also a record value at 12 inches.

Similar temperatures were noted at the South Bend airport last month. The average high temperature was 25.1 degrees. This was 6.2 degrees below the normal value of 31.3 degrees. The average low temperature was 7.6 degrees which was 10 degrees below the normal value of 17.6 degrees. This resulted in an average monthly temperature of 16.3 degrees. This was 8.1 degrees below the normal value of 24.4 degrees. The warmest temperature was 45 degrees on the 13th while the lowest temperature was -14 degrees on the 6th and 28th. There was 3.12 inches of liquid equivalent precipitation for the month. This was 0.83 inches above the normal value of 2.29 inches. The greatest 24-hour precipitation value was 0.92 inches from the 10th to the 11th.

...No flooding observed on area rivers...

The majority of the streams and waterways across the area remained frozen either completely or with small paths of open water. Since most of the precipitation fell in the form of snow, there was little runoff during the month despite the ground being solidly frozen. There was a large ice jam on the Maumee River in Henry County Ohio that was causing some minor flooding issues to summer residences just to the west of Grand Rapids. There have been quite a few other minor ice jams that have been reported, but none has resulted in any flooding.

...Drought conditions remain unchanged...

There has been non change in the drought conditions across the Northern Indiana HSA. With all the rain and snow this season, soil moisture values remain at or above normal values.

NWS Form E-3
 (04-2006)
 (PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

Hydrologic Service Area (HSA)
 NORTHERN INDIANA (IWX)

FLOOD STAGE REPORT

REPORT FOR:
 MONTH YEAR
 JANUARY 2014

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date/Time)		CREST	
		FROM	TO	STAGE (Feet)	DATE/TIME
NO FLOODING REPORTED					

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
FEBRUARY 2014

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE
Michael Rehbein
Service Hydrologist

DATE
March 21, 2014

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

...Winter maintained a tight grip on the area during February...

Winter maintained a tight icy grip over northern Indiana, southwest Lower Michigan and northwest Ohio. Temperatures across the region averaged 9 to 12 degrees below normal levels. Precipitation was well above normal for the month, much of which fell as snow. The snow amount at Ft. Wayne was nearly two and a half times the normal value.

For the month of February, the average high temperature at Ft. Wayne was a chilly 26.3 degrees. This was an even 10 degrees below the normal value of 36.3 degrees. The average low temperature was 9 degrees which was 11.3 degrees below the normal value of 20.3 degrees. As a result, the average temperature was 17.6 degrees. This was 10.7 degrees below the normal value of 28.3 degrees. The warmest temperature was 49 degrees on the 20th while the coolest temperature was -16 degrees on the 11th. Precipitation was well above the normal values for the month. There was 3.49 inches of liquid equivalent precipitation at the airport. This was 1.45 inches above the normal value of 2.04 inches. The greatest 24-hour precipitation was 1.14 inches on the 1st. Of this precipitation, 19.2 inches fell as snow. This was 11.5 inches above the normal value of 7.7 inches. This brought the seasonal total to 60.4 inches which is 32 inches above the normal value of 26.4 inches. The greatest snow depth was 11 inches on the 5th and the greatest 24-hour snowfall was 6.2 inches.

Cold and wet were perfect adjectives to describe the weather at South Bend for the month. The average high temperature was 26.4 degrees. This was 8.7 degrees below the normal value of 35.1 degrees. The average low temperature was a cold 10.4 degrees which was 10.1 degrees below the normal value of 20.5. This resulted in an average temperature of 18.4 degrees which was 9.4 degrees below the normal value of 27.8 degrees. The temperature range for the month was a high of 49 degrees on the 20th and a low of -8 on the 11th. Liquid equivalent precipitation was well above normal for the month. There was 2.82 inches at the airport. This was 0.87 inches above the normal value of 1.95 inches. The greatest 24-hour total was 1.64 inches on the 20th.

...A mid-winter thaw leads to flooding across the HSA...

Well above normal snowfall for the season created a substantial snow pack across the region. A mid month warm up led to significant snow melt. This created some minor to moderate flooding across portions of the Wabash and Maumee River basins. Nearly all of the rivers had frozen completely over or nearly so. With the warm up and significant rainfall, the ice began to break up. Some of the larger rivers, the Maumee and Wabash in particular, saw some significant flooding due to ice jams. The

largest blockage was on the Maumee River from Napoleon, Ohio to the east approximately 6 miles east of Napoleon. There were actually 2 jams that affected that area. The first one formed near Mary Jane Thurston State Park. The second one developed in the village of Napoleon before breaking loose and heading downstream. The 2 ice jams were separated by approximately 2 river miles of ice. Fortunately, there was only minor flooding in extreme eastern Henry County. When the ice jam developed in Napoleon, moderate flooding resulted. However, given the relatively short time the ice was stuck, the river quickly began to fall.

...Soil remains saturated and frozen...

Significant precipitation this winter has led to widespread moist and frozen conditions. Frost depths of 3 to 5 feet were common across the region. This led to numerous water line breaks in the area. Soil conditions remain moist and no drought conditions are noted.

FLOOD STAGE REPORT

REPORT FOR:
MONTH YEAR
FEBRUARY 2014

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date/Time)		CREST	
		FROM	TO	STAGE/FLOW (Feet/CFS)	DATE/TIME
AUGLAIZE RIVER @ FT. JENNINGS (Due to a gauge malfunction, the time the river fell below flood stage is estimated)	13	02/22/2014 11:00Z/6:00 AM EST	02/26/2014 08:00Z/3:00 AM EST	17.45/ 8850	02/23/2014 1600Z/11:00 AM EST
BLANCHARD RIVER @ OTTAWA	23	02/23/2014 01:30Z (02/22/2014 8:30 PM EST)	02/26/2014 00:00Z (02/25/2014 7:00 PM EST)	25.52/ 9580	02/24/2014 11:00Z/6:00 AM EST
EEL RIVER @ NORTH MANCHESTER	9	02/21/2014 19:00Z/2:00 PM EST	02/22/2014 13:00Z/8:00 AM EST)	9.90/ 4000	02/22/2014 3:15Z (10:15 PM EST 02/21/2014)
KANKAKEE RIVER @ DAVIS ROUTE 30	10	02/21/2014 20:45Z/3:45 PM EST	02/22/2014 13:00Z/9:00 AM EST	10.88/ 1040	02/23/2014 00:30Z (02/22/2014 7:30 PM EST)
MAUMEE RIVER @ DEFIANCE (Flow data is not available for this point.)	10	02/22/2014 23:00Z/6:00 PM EST	02/24/2014 22:45Z/5:45 PM EST	13.33	02/24/2014 22:00Z/5:00 PM EST
MAUMEE RIVER @ NAPOLEON	12	02/24/2014 01:30Z (02/23/2014 8:30 PM EST)	02/27/2014 11:45Z/7:45 AM EST	16.11/ 68600	02/25/2014 03:00Z (02/24/2014 10:00 PM EST)
ST. JOSEPH RIVER (OH/IN) @ NEWVILLE	12	02/23/2014 22:00Z/5:00 PM EST	02/26/2014 06:45Z/1:45 AM EST	12.17/ 2200	02/24/2014 21:45Z/4:45 PM EST
ST. JOSEPH RIVER (OH/IN) NEAR ST. JOE (FORT WAYNE)	12	02/22/2014 18:00Z/1:00 PM EST	02/23/2014 19:00Z/2:00 PM EST	12.28/ 6980	02/23/2014 04:30Z (02/22/2014 11:30 PM EST)
ST. MARY'S RIVER @ DECATUR	17	02/22/2014 18:00Z/1:00 PM EST	02/23/2014 19:00Z/2:00 PM EST	19.83/ 5820	02/25/2014 08:15Z/3:15 AM EST
ST. MARY'S RIVER @ MULDOON BRIDGE	14	02/25/2014 01:15Z (02/24/2014 8:15 PM EST)	02/27/2014 14:15Z/9:15 AM EST	14.97/ 7850	02/26/2014 08:45Z/3:45 AM EST
TIFFIN RIVER @ STRYKER	11	02/22/2014 09:30Z/4:30 AM EST	03/01/2014 00:30Z (02/28/2014 7:30 PM EST)	13.06/ 2340	02/26/2014 03:30Z (02/25/2014 10:30 PM EST)
TIPPECANOE RIVER NEAR ORA (Gauge malfunction. Time of the end of flooding is	12	02/22/2014 17:30Z/12:30	02/27/2014 14:30Z/9:30	13.95/ 5190	02/24/2014 06:15Z/1:15

estimated.)		PM EST	AM EST		AM EST)
TIPPECANOE RIVER AT WINAMAC (DCP)	10	02/24/2014 07:15Z/2:15 AM EST	02/28/2014 04:00Z (02/27/2014 11:00 PM EST)	11.7/ 4780	02/25/2014 12:30Z/7:30 AM EST
WABASH RIVER @ BLUFFTON (Times and dates of the onset and ending of flooding are estimated.)	10	02/22/2014 16:30Z/11:30 AM EST	02/26/2014 19:00Z/2:00 PM EST	13.51/ 6640	02/23/2014 16:43Z/11:43 AM EST
WABASH RIVER @ LINN GROVE	11	02/22/2014 02:00Z (02/21/2014 9:00 PM EST)	02/26/2014 11:45Z/7:45 AM EST	13.11/ 6960	02/23/2014 03:15Z (02/22/2014 10:15 PM EST)
WABASH RIVER NEAR BLUFFTON (Flow data is not available for this point.)	12	02/22/2014 04:15Z (02/21/2014 11:15 PM EST)	02/27/2014 11:45Z/6:45 AM EST	15.48	02/23/2014 17:15Z/12:15 PM EST

NWS Form E-5
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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)

NORTHERN INDIANA (IWX)

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR

MARCH 2014

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE
Michael Rehbein
Service Hydrologist

DATE

April 2, 2014

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

...Above normal snowfall but below normal precipitation...

Snow continued to fall over the Northern Indiana HSA during the month of March. In fact, snow fall totals were in some places more than three times the normal values. This provided ample snow to cause widespread minor flooding across the area. Temperatures began the month very cold with many readings below zero but as the month progressed, temperatures began to moderate and snow melted. By the end of the month, temperatures had risen into the 50s and 60s and all but the largest of snow piles melted.

Due to the very cold start to the month, area temperatures continued below the climatological normal values. At the Fort Wayne airport, the average high temperature was 40.3 degrees. This was 7.7 degrees below the normal value of 48 degrees. The average low temperature was 20.4 degrees which was 8.3 degrees below the normal value of 28.7 degrees. This resulted in an average monthly temperature of 30.3 degrees which was 8.1 degrees below the normal value of 38.4 degrees. The temperatures ranged from -3 degrees on the 3rd to 65 degrees on the 31st. There were 7 days in which the high temperature was below 32 degrees. Precipitation for the month was below normal although snowfall was above normal. There was 1.90 inches of liquid equivalent precipitation at the airport. This was 0.81 inches below the normal of 2.71 inches. The greatest 24-hour total was 0.91 inches on the 12th. Of this total, there was 13.2 inches of snowfall. This was well above the normal value of 4.1 inches. This brought the seasonal total for snow to 73.6 inches which was 41.1 inches above the normal value of 32.5 inches. The greatest snow depth was 6 inches on the 13th and the greatest 24-hour snowfall was 6.7 inches.

At South Bend, the average high temperature for the month was 39.8 degrees which was 6.7 degrees below the normal value of 46.5 degrees. The average low temperature was 20.3 degrees. This was 8.1 degrees below the normal value of 28.4 degrees. This resulted in an average monthly temperature of 30 degrees which was 7.5 degrees below normal. The temperatures ranged from -4 degrees on the 3rd to 68 degrees on the 31st. There were 9 days in which the temperature failed to rise above 32 degrees. Precipitation for the month was below normal. There was 1.69 inches of liquid equivalent precipitation for the month. This was 0.73 inches below the normal value of 2.42 inches. The greatest 24-hour rainfall total was 0.48 inches on the 19th.

...Ice melt causes many rivers to flood...

The combination of warming temperatures and a large melting snowpack led to large rises on area rivers. However, the snow melt was not accompanied by heavy rainfall and the snow melt was gradual. This helped to limit the flooding severity. There were numerous reports of ice jams, but little in the way of flooding was reported. The largest jam occurred on the Maumee River east of Napoleon, Ohio. This ice jam was as large as 6 miles in length as two jams were consolidated into one. The Maumee River and St. Joseph River saw the greatest flooding. The Maumee River saw flood stage exceeded by 2 to 3 feet while the St. Joseph River rose to 2 to 4 feet above flood stage. Despite the widespread flooding, there was very little in the way of serious impact to area residents. There were some seasonal homes along the Maumee River east of Napoleon, OH that saw water levels reach their foundations.

...Soil conditions continue to be moist...

Soil conditions continue to be wet across the area as melting snow released its water. The 30-day outlook for temperatures remains below normal while the precipitation is slightly higher than even odds that above normal precipitation will occur.

FLOOD STAGE REPORT

REPORT FOR:

MONTH YEAR

MARCH 2014

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date/Time)		CREST	
		FROM	TO	STAGE/FLOW (Feet/CFS)	DATE/TIME
BEAN CREEK @ POWERS	15	03/15/2014 20:00Z/4:00 PM EDT	03/17/2014 07:00Z/3:00 AM EDT	16.24/ 2310	03/16/2013 06:30Z/2:30 AM EDT
BEAN CREEK @ POWERS	15	03/20/2014 01:30Z (03/19/2014 9:30 PM EDT)	03/22/2014 20:30Z/4:30 PM EDT	15.93/ 2180	03/21/2014 03:00Z (03/20/2014 11:00 PM EDT)
KANKAKEE RIVER @ DAVIS ROUTE 30	10	03/15/2014 13:30Z/9:30 AM EDT	03/17/2014 19:30Z/3:30 PM EDT	10.38/ 941	03/16/2014 10:45Z/6:45 AM EDT
KANKAKEE RIVER @ DAVIS ROUTE 30	10	03/19/2014 18:15Z/2:15 PM EDT	03/25/2014 14:00Z/10:00 AM EDT	10.78/ 1020	03/21/2014 00:00Z (03/20/2014 8:00 PM EDT)
MAUMEE RIVER AT COLISEUM BLVD IN FORT WAYNE	17	03/16/2014 04:30Z/12:30 AM EDT	03/17/2014 06:15Z/2:15 AM EDT	17.35/ 12300	03/16/2014 21:45Z/5:45 PM EDT
MAUMEE RIVER @ DEFIANCE (Flow data not available for this point)	10	03/12/2014 14:00Z/10:00 AM EDT	03/14/2014 20:00Z/4:00 PM EDT	11.28	03/13/2014 23:00Z/7:00 PM EDT
MAUMEE RIVER @ DEFIANCE (Flow data not available for this point)	10	03/15/2014 19:00Z/3:00 PM EDT	03/17/2014 20:00Z/4:00 PM EDT	11.22	03/16/2014 08:00Z/4:00 AM EDT
MAUMEE RIVER @ NAPOLEON	12	03/15/2014 20:00Z/4:00 PM EDT	03/16/2014 05:45Z/1:45 AM EDT	13.07/ 51100	03/16/2014 03:15Z(03/15/ 2014 11:45 PM EDT)
PIGEON RIVER NEAR SCOTT	6	03/20/2014 20:00Z/4:00 PM EDT	03/27/2014 01:45Z (03/26/2014 9:45 PM EDT)	6.20/ 1330	03/23/2014 20:00Z/4:00 PM EDT
NORTH BRANCH OF THE ELKHART RIVER @ COSPERVILLE	6	03/19/2014 16:30Z 12:30 PM EDT	03/24/2014 12:00Z/8:00 AM EDT	6.25/ 497	03/22/2014 23:45Z/7:45 PM EDT
ST. JOSEPH RIVER (MI/IN) @ THREE RIVERS	7	03/22/2014 19:45Z/3:45 PM EDT	03/27/2014 03:15Z (03/26/2014 11:15 PM EDT)	7.76/ 4510	03/23/2014 18:15Z/2:15 PM EDT
ST. JOSEPH RIVER (OH/MI) AT MONTPELIER (Time of rising above and going below flood stage and going below flood stage estimated)	12	03/21/2014 04:00Z/12:00 AM EDT	Unknown	Unknown due to a lack of data.	N/A
ST. JOSEPH RIVER (OH/IN) AT NEWVILLE	12	03/15/2014	03/26/2014	13.74/	03/22/2014

		11:45Z/7:45 AM EDT	20:15Z/4:15 PM EDT	3640	09:00Z/5:00 AM EDT
ST. JOSEPH RIVER (OH/IN) NEAR ST. JOE (FORT WAYNE) (Date/time of receding below flood stage is estimated due to gauge malfunction.)	12	03/12/2014 02:45Z (03/11/2014 10:45 PM EDT)	03/18/2014 23:30Z/7:30 PM EST	15.45/ 10100	03/16/2014 16:00Z/12:00 PM EDT
ST. JOSEPH RIVER (OH/IN) NEAR ST. JOE (FORT WAYNE)	12	03/20/2014 13:30Z/9:30 AM EST	3/21/2014 23:00Z/7:00 PM EDT	12.46/ 7150	03/20/2014 23:15Z/7:15 PM EDT
TIFFIN RIVER @ STRYKER	11	03/13/2014 01:30Z (03/12/2014 9:30 PM EDT)	03/27/2014 17:00Z/1:00 PM EDT	14.42/ 3460	03/22/2014 07:30Z/3:30 AM EDT
TIPPECANOE RIVER NEAR ORA	12	03/16/2014 13:45Z/9:45 AM EST	03/18/2014 03:45Z (03/17/2014 11:45 PM EDT)	12.19/ 3140	03/17/2014 04:00Z/12:00 AM EST
TIPPECANOE RIVER @ OSWEGO	7.5	03/19/2014 04:45Z/12:45 PM EST	03/29/2014 14:00Z/10:00 AM EDT	7.80/ 433	03/23/2014 18:30Z/2:30 PM EDT
TIPPECANOE RIVER @ NORWAY (Flow data not available for this point)	11.5	03/15/2014 04:30Z/12:30 AM EDT	03/15/2014 20:15Z/4:15 PM EDT	12.21	03/15/2014 12:00Z/8:00 AM EDT

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
APRIL 2014

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE
Michael Rehbein
Service Hydrologist

DATE
May 20, 2014

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

...Rainfall totals average near normal for the month...

Rainfall averaged close to climatological normal values during the month of April. Heavy rainfall on the 3rd of the month led to widespread flooding across the region. Although there were a number of sites that experienced flood conditions, all of the flooding was considered minor.

At the Fort Wayne airport, the average high temperature for the month was 61.6 degrees. This was half a degree above the normal value of 61.1 degrees. The average low temperature was 38 degrees which was 0.9 degrees below the normal value of 38.9 degrees. This resulted in an average monthly temperature of 49.8 degrees which was 0.2 degrees below normal. The highest temperature was 79 degrees on the 21st and the lowest temperature was 23 degrees on the 16th. Precipitation was slightly above normal for the month. There were 3.99 inches of rain at the airport. The normal value is 3.52 inches. The greatest 24-hour total was 1.81 inches on the 3rd. There was some snow reported during the month. There was 1.1 inches of snow which was 0.1 inches above normal. This brings the seasonal total to 74.7 inches which was more than double the normal value of 33.5 inches. The greatest 24-hour snowfall total was 1.1 inches.

At South Bend, the average high temperature for the month was 60.7 degrees. This was 1.2 degrees above the normal value of 59.5 degrees. The average low temperature was 37.7 degrees. This was 0.9 degrees below the normal value of 38.6 degrees. This resulted in an average monthly temperature of 49.2 degrees. This was 0.2 degrees above the normal value of 49 degrees. Precipitation was slightly below normal for the month. There was 2.35 inches of precipitation which was 0.88 inches below the normal value of 3.23 inches. The greatest 24-hour rainfall total was 1.16 inches on the 3rd.

...Single heavy rain event leads to widespread flooding...

The heavy rain event that occurred on the 3rd of the month generated a wide area of rainfall totals exceeding 1 inch. Due to the fact that, in many places, the ground was still frozen, it was a sufficient amount to cause minor flooding across a large area. The heaviest rains were reported across the western and southern parts of the area. This affected mostly the Wabash and Kankakee River basins. Rises on the St. Mary's River caused corresponding rises on the Maumee River as that water worked its way to Lake Erie.

...No drought conditions observed...

Due to the prolonged cold temperatures during the winter season, the ground was frozen to significant depths at the beginning of the month. The ground thawed throughout the month. This maintained sufficient soil moisture so as to prevent drought conditions across the Northern Indiana HSA.

FLOOD STAGE REPORT

REPORT FOR:
MONTH YEAR
MAY 2014

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date/Time)		CREST	
		FROM	TO	STAGE/FLOW (Feet/CFS)	DATE/TIME
KANKAKEE RIVER @ DAVIS ROUTE 30 (DAVI3)	10	04/04/2014 01:45Z (04/03/2014 9:45 PM EDT)	04/08/2014 12:15Z/8:15 AM EDT	11.03/ 1076	04/05/2014 03:00Z (04/04/2014 11:00 PM EDT)
MAUMEE RIVER @ FT. WAYNE (FTWI3)	17	04/04/2014 03:15Z (04/03/2014 11:15 PM EDT)	04/07/2014 02:00Z (04/06/2014 10:00 PM EDT)	18.68/ 12970	04/05/2014 10:45Z/6:45 AM EDT
MAUMEE RIVER @ FT. WAYNE (FTWI3)	17	04/08/2014 16:15Z/12:15 PM EDT	04/09/2014 08:45Z/4:45 AM EDT	17.21/ 11500	04/09/2014 02:00Z (04/08/2014 10:00 PM EDT)
MAUMEE RIVER @ COLISEUM BLVD IN FT. WAYNE (COMI3)	17	04/04/2014 02:00Z (04/03/2014 10:00 PM EDT)	04/07/2014 19:45Z/3:45 PM EDT	19.33/ 15060	04/05/2014 11:15Z/7:15 AM EDT
MAUMEE RIVER @ COLISEUM BLVD IN FT. WAYNE (COMI3)	17	04/08/2014 05:45Z/1:45 AM EDT	04/10/2014 00:00Z (04/09/2014 8:00 PM EDT)	17.97/ 13200	04/08/2014 23:45Z/7:45 PM EDT
MAUMEE RIVER @ NEW HAVEN (NHVI3)	17	04/04/2014 04:00Z/12:00 AM EDT	04/07/2014 14:30Z/10:30 AM EDT	19.20/ 15470	04/05/2014 14:45Z/10:45 AM EDT
MAUMEE RIVER @ NEW HAVEN (NHVI3)	17	04/08/2014 09:00Z/5:00 AM EDT	04/09/2014 22:30Z/6:30 PM EDT	17.62/ 13078	04/09/2014 02:45Z (04/08/2014 10:45 PM EDT)
MAUMEE RIVER @ DEFIANCE (DEFO1)	10	04/04/2014 08:00Z/4:00 AM EDT	04/07/2014 17:00Z/1:00 PM EDT	13.13	04/05/2014 12:00Z/8:00 AM EDT
MAUMEE RIVER @ DEFIANCE (DEFO1)	10	04/08/2014 09:00Z/5:00 AM EDT	04/09/2014 22:00Z/6:00 PM EDT	10.40	04/09/2014 04:00Z/12:00 AM EDT
NORTH BRANCH ELKHART RIVER @ COSPERVILLE (CPEI3)	6	04/03/2014 21:15Z/5:15 PM EDT	04/15/2014 17:15Z/1:15 PM EDT	6.42/ 534	04/08/2014 20:45Z/6:45 PM EDT
PIGEON RIVER NEAR SCOTT (SCOI3)	6	04/05/2014 04:15Z/12:15 AM EDT	04/12/2014 07:45Z/3:45 AM EDT	6.19/ 1320	04/09/2014 12:00Z/8:00 AM EDT

ST. JOSEPH RIVER MI/IN @ THREE RIVERS (TRVM4)	7	04/06/2014 20:30Z/4:30 PM EDT	04/07/2014 04:30Z/12:30 AM EDT	7.05/ 3836	04/07/2014 00:00Z (04/06/2014 8:00 PM EDT)
ST. JOSEPH RIVER MI/IN @ THREE RIVERS (TRVM4)	7	04/07/2104 16:45Z/12:45 PM EDT	04/08/2014 08:00Z/4:00 AM EDT	7.16/ 3940	04/07/2014 17:30Z/1:30 PM EDT
ST. JOSEPH RIVER OH/IN @ NEWVILLE (NVL13)	12	04/04/2014 04:14Z/12:15 AM EDT	04/10/2014 10:15Z/6:15 AM EDT	13.58/ 3470	04/06/2014 06:00Z/2:00 AM EDT
ST. JOSEPH RIVER OH/IN NEAR ST. JOE (FT. WAYNE) (ROOI3)	12	04/08/2014 15:15Z/9:15 AM EDT	04/08/2014 21:45Z/5:45 PM EDT	12.09/ 6810	04/08/2014 18:45Z/2:45 PM EDT
ST. MARY'S RIVER @ DECATUR (DCRI3)	17	04/04/2014 00:15Z (04/03/2014 8:15 PM EDT)	04/09/2014 22:15Z/6:15 PM EDT	19.67/ 5679	04/05/2014 02:00Z (04/04/2014 10:00 PM EDT)
TIFFIN RIVER @ STRYKER (STRO1)	11	04/03/2014 23:30Z/7:30 PM EDT	04/11/2014 15:00Z/11:00 AM EDT	13.28/ 2501	04/06/2014 07:00Z/3:00 AM EDT
TIPPECANOE RIVER @ OSWEGO (OWGI3)	7.5	04/06/2014 14:00Z/10:00 AM EDT	04/15/2014 06:15Z/2:15 AM EDT	7.72/ 415	04/10/2014 09:45Z/5:45 AM EDT
TIPPECANOE RIVER NEAR ORA (ORA13)	12	04/05/2014 16:30Z/12:30 PM EDT	04/06/2014 19:30Z/3:30 PM EDT	12.12/ 3080	04/06/2014 00:30Z (04/05/2104 8:30 PM EDT)
WABASH RIVER @ BLUFFTON (BLFI3)	10	04/07/2014 16:36Z/12:36 PM EDT	04/08/2014 11:20Z/7:20 AM EDT	11.63/ 4803	04/06/2014 20:55Z/4:55 PM EDT
WABASH RIVER @ LINN GROVE (LYNI3)	11	04/05/2014 02:00Z (04/04/2014 10:00 PM EDT)	04/06/2014 23:45Z/7:45 PM EDT	12.15/ 5380	04/05/2014 14:30Z/10:30 AM EDT
WABASH RIVER NEAR BLUFFTON (BFFI3)	12	04/05/2014 14:00Z/10:00 AM EDT	04/07/2014 09:00Z/5:00 AM EDT	13.29/ 4697	04/06/2014 06:15Z/2:15 AM EDT

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
MAY 2014

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE
Michael Rehbein
Service Hydrologist

DATE
June 20, 2014

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

...Slightly above normal temperatures and precipitation for the month...

May temperatures were slightly above normal values across the region. Area sites were generally 1 to 2 degrees above normal. At the Fort Wayne airport, the average high temperature for the month was 73.5 degrees. This was 1.8 degrees above the normal value of 71.7 degrees. The average low temperature was 49.5 degrees. This was 0.3 degrees above the normal value of 49.2 degrees. This resulted in an average monthly temperature of 61.5 degrees which was 1.1 degrees above the normal value of 60.4 degrees. The temperatures ranged from 34 degrees on the 16th to 89 degrees on the 8th. Rainfall was slightly above normal for the month. There was 4.57 inches of rain recorded. This was 0.30 inches above the normal value of 4.27 inches. The greatest 24-hour rainfall total was 1.67 inches from the 14th to the 15th.

At South Bend, the average high temperature was 72 degrees. This was 2 degrees above the normal value of 70 degrees. The average low temperature was 49.4 degrees which was 0.8 degrees above the normal value of 48.6 degrees. This resulted in an average monthly temperature of 60.7 degrees. This was 1.4 degrees above the normal value of 59.3 degrees. The temperatures ranged from 32 degrees on the 16th to 91 degrees on the 8th. There was 5.10 inches of rain recorded at the airport. This was 1.27 inches above the normal value of 3.83 inches. The greatest 24-hour rainfall total was 1.10 inches from the 26th to the 27th.

...Rivers mostly remain below flood stage...

Even though there was above normal rainfall for the month, rivers generally remained below flood stage. The lone exception was the Maumee River at Coliseum Blvd. in Fort Wayne. It was only above flood stage for about 4 hours and it crested just slightly above the 17 foot flood stage.

...No drought conditions present...

The fact that there has been sufficient rainfall and snowfall during the first half of the year, drought conditions are not present anywhere in the Northern Indiana HSA.

NWS Form E-3
 (04-2006)
 (PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

Hydrologic Service Area (HSA)
 NORTHERN INDIANA (IWX)

FLOOD STAGE REPORT

REPORT FOR:
 MONTH YEAR
 MAY 2014

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date/Time)		CREST	
		FROM	TO	STAGE/LOW (Feet/CFS)	DATE/TIME
MAUMEE RIVER @ COLISEUM BLVD IN FT. WAYNE (COMI3)	17	05/16/2014 00:15Z (05/15/2014 8:15 PM EDT)	05/16/2014 04:00Z/12:00 AM EDT	17.06/ 12000	05/16/2014 01:15Z (05/15/2014 9:15 PM EDT)

NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA)
		NORTHERN INDIANA (IWX)
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR: MONTH YEAR
		JUNE 2014
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		SIGNATURE Michael Rehbein Service Hydrologist
		DATE July 4, 2014

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

...Above normal temperatures and precipitation...

Temperatures across the Northern Indiana HSA were slightly above normal for the month of June. Area readings were from 1 to 3 degrees above the climatological normal values. Daytime highs were 1 to 2 degrees above normal while overnight lows were 2 to 3 degrees warmer than normal.

At Fort Wayne, the average high temperature was 82.1 degrees. This was 1.2 degrees above the normal value of 80.9 degrees. The average low temperature of 61.8 was 2.5 degrees above the normal value of 59.3 degrees. This resulted in an average monthly temperature of 71.9 degrees. This was 1.8 degrees above the normal value of 70.1 degrees. The highest temperature was 93 degrees on the 17th while the lowest temperature was 45 degrees on the 14th. Rainfall was well above normal. For the month, there was 5.81 inches of rain reported at the airport. This was 1.65 inches above the normal value of 4.16 inches. The greatest 24-hour rainfall total was 2.22 inches from the 18th to the 19th.

South Bend, likewise, was above normal temperatures for the month. The average high temperature was 81.1 degrees. This was 1.7 degrees above the normal value of 79.4 degrees. The average low temperature was 61.7 degrees. This was 3 degrees above the normal value of 58.7 degrees. The resulting average monthly temperature was 71.4 degrees and was 2.3 degrees above the normal value of 69.1 degrees. The highest temperature was 90 degrees on the 17th and the lowest was 48 degrees on the 14th and 5th. Precipitation was more than double the normal for the month. There was 9.14 inches of rain reported at the airport. This was 5.35 inches above the normal value of 3.79 inches. The greatest 24-hour total was 2.20 inches from the 17th to the 18th.

...Very little flooding in spite of the above normal rain...

The fact that growing season is well underway probably helped prevent widespread flooding given the amount of rainfall observed last month. The greatest rainfall occurred across the northwestern part of the area. That is where there was limited flooding for a brief time last month. The Dowagiac River at Sumnerville rose above the flood stage on the morning of the 24th. The river peaked at 9.11 feet which is just above the moderate flood stage of 9 feet. The river quickly receded and fell below the flood stage during the morning of the 25th. The Kankakee River at Davis Route 30 briefly topped flood stage on the

evening of the 24th. It rose to a peak of 10.79 feet on the 25th and fell below flood on the early morning hours of the 27th.

...Soil moisture remains good for agriculture...

Given the abundance of rainfall through the spring and early summer, there are no drought conditions across the area. Crops appear to be doing well.

FLOOD STAGE REPORT

REPORT FOR:
 MONTH YEAR
 JUNE 2014

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date/Time)		CREST	
		FROM	TO	STAGE/LOW (Feet/CFS)	DATE/TIME
KANKAKEE RIVER AT DAVIS ROUTE 30 – DAVI3	10	06/25/2014 00:15Z (06/24/2014 8:15 PM EDT)	06/27/2014 05:30Z/1:30 AM EDT	10.79/ 1025	06/25/2014 18:15Z/2:15 PM EDT
DOWAGIAC RIVER AT SUMNERVILLE – SNMM4	8	06/24/2014 13:00Z/9:00 AM EDT	06/26/2014 13:00Z/9:00 AM EDT	9.11/ 11/23	06/25/2014 11:30Z/7:30 AM EDT

NWS Form E-5
(04-2006)
(PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

HYDROLOGIC SERVICE AREA (HSA)
NORTHERN INDIANA (IWX)

MONTHLY REPORT OF HYDROLOGIC CONDITIONS

REPORT FOR:
MONTH YEAR
JULY 2014

TO: Hydrologic Information Center, W/OS31
NOAA's National Weather Service
1325 East West Highway
Silver Spring, MD 20910-3283

SIGNATURE
Michael Rehbein
Service Hydrologist

DATE

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

NWS Form E-3
 (04-2006)
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U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

Hydrologic Service Area (HSA)
 NORTHERN INDIANA (IWX)

FLOOD STAGE REPORT

REPORT FOR:
 MONTH YEAR

JULY 2014

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date/Time)		CREST	
		FROM	TO	STAGE/LOW (Feet/CFS)	DATE/TIME

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		NORTHERN INDIANA (IWX)
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR: MONTH YEAR
		AUGUST 2014
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		SIGNATURE Michael Rehbein Service Hydrologist
		DATE September 17, 2014

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

...Warm and dry in the west, slightly cooler and wet in the east...

August saw warmer and drier than normal conditions across western parts of the area while the east was just below normal with regards to temperature but well above normal rainfall. Despite the heavy rainfall in the east, only isolated minor flooding occurred in the Wabash River Basin and below Norway Dam.

The average high temperature at the Ft. Wayne airport was 81.4 degrees. This was 0.8 degrees below the normal value of 82.2 degrees. The average low temperature was 61.2 degrees which was 0.4 degrees above the normal value of 60.8 degrees. This resulted in an average monthly temperature of 71.3 degrees. This was 0.2 degrees below the normal value of 71.5 degrees. The temperatures for the month ranged from 43 degrees on the 15th to 89 degrees on the 25th. Rainfall was well above normal values this month. There was 6.04 inches of rain recorded at the airport. This was 2.4 inches above the normal value of 3.64 inches. The greatest 24-hour rainfall total was 3.22 inches from the 21st to the 22nd.

Slightly warmer temperatures occurred at the South Bend airport in August. The average high temperature was 82.5 degrees. This was 1.6 degrees above the normal value of 80.9 degrees. The average low temperature was 62.7 degrees which was 1 degree below the normal value of 63.7 degrees. This resulted in an average monthly temperature of 72.6 degrees which was 1.3 degrees above the normal value of 71.3 degrees. The temperatures ranged from 46 degrees on the 15th to 91 degrees on the 25th. There was 2.20 inches of rainfall reported this month. This was 1.56 inches below the normal value of 3.76 inches. The greatest 24-hour rainfall total was 0.51 inches from the 4th to the 5th.

...Only minor flooding in mainly the southeast part of the area...

The heavy rainfall over the eastern parts of the area on the 21st/22nd fell mainly in the Wabash River basin. The runoff from this precipitation allowed a couple of rivers to briefly exceed flood stage. The Salamonie River below Warren was above flood stage from the 22nd to the 24th. It peaked at 13.54 feet on the 23rd. The Mississinewa River at Marion crested a few inches above flood stage and was in flood from the 23rd to the 24th. The Tippecanoe River at Norway exceeded flood stage from the 22nd to the 23rd due to slightly increased releases at Norway Dam.

...Small area of abnormally dry soils...

A small area of abnormally dry conditions continues across extreme northeastern Indiana, far northwest Ohio and south central lower Michigan. The remainder of the area was experiencing moist soil conditions.

FLOOD STAGE REPORT

REPORT FOR:
 MONTH YEAR
 AUGUST 2014

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date/Time)		CREST	
		FROM	TO	STAGE/LOW (Feet/CFS)	DATE/TIME
SALAMONIE RIVER BELOW WARREN (WRN13)	12	08/22/2014 23:45Z/7:45 PM EDT	08/24/2014 19:15Z/3:15 PM EDT	13.54/ 8263	08/23/2014 13:30Z/9:30 AM EDT
MISSISSENA RIVER @ MARION (MRO13)	12	08/23/2014 15:15Z/11:15 AM EDT	08/24/2014 13:30Z/9:30 AM EDT	12.33/ 13513	08/23/2014 21:30Z/5:30 PM EDT
TIPPECANOE RIVER @ NORWAY	11.5	08/22/2014 22:15Z/6:15 PM EDT	08/23/2014 12:00Z/8:00 AM EDT	12.29	08/23/2014 00:45Z (08/22/2014 8:45 PM EDT)

NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA)
		NORTHERN INDIANA (IWX)
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR: MONTH YEAR
		SEPTEMBER 2014
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		SIGNATURE Michael Rehbein Service Hydrologist
		DATE April 17, 2015

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

...Temperatures slightly below normal for the month, precipitation mixed...

Temperatures across the area were slightly below normal for the month. Precipitation, however, was above normal levels over eastern sections of the area while the western parts saw rain totals that were lower than normal.

At the Fort Wayne airport, the average high temperature for the month was 73.5 degrees. This was 2.5 degrees below the normal value of 76 degrees. The average low temperature of 51.6 degrees was 1 degree below the normal value of 52.6 degrees. This resulted in an average monthly temperature of 62.5 degrees which was 1.8 degrees below the normal value of 64.3 degrees. The temperatures ranged from a low of 41 degrees on the 23rd to a high of 90 degrees on the 5th. Precipitation was well above normal for the month. There was 4.90 inches recorded at the airport which was 2.10 inches above the normal value of 2.80 inches. The greatest 24-hour rainfall total was 3.24 inches from the 9th to the 10th.

At the South Bend airport, the average high temperature for the month was 74 degrees. This was exactly the normal value. The average low temperature was 52.4 degrees. This was 1.3 degrees below the normal value of 53.7 degrees. This resulted in an average monthly temperature of 63.2 degrees which was 0.7 degrees below the normal value of 63.9 degrees. The temperatures ranged from a low of 40 degrees on the 22nd to a high of 91 degrees on the 5th. Precipitation was below normal for the month. There was 2.71 inches of rain recorded at the airport. This was 0.82 inches below the normal value of 3.53 inches. The greatest 24-hour rainfall total was 1.14 inches from the 5th to the 6th.

...Rivers remain at low levels...

Heavy rains across the eastern part of the area during the second week of the month brought increases in rivers over the area, but since the rivers started out with lower than normal levels, flooding was not observed.

...No drought conditions across the area...

According to the latest Drought Monitor, there are no drought conditions present across the Northern Indiana HSA.

NWS Form E-3
 (04-2006)
 (PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

Hydrologic Service Area (HSA)
 NORTHERN INDIANA (IWX)

FLOOD STAGE REPORT

REPORT FOR:
 MONTH YEAR

SEPTEMBER 2014

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date/Time)		CREST	
		FROM	TO	STAGE/LOW (Feet/CFS)	DATE/TIME
NO FLOODING REPORTED					

NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA)
		NORTHERN INDIANA (IWX)
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR: MONTH YEAR
		OCTOBER 2014
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		SIGNATURE Michael Rehbein Service Hydrologist
		DATE November 18, 2014

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

...Temperatures near normal, precipitation normal to above normal...

Temperatures at the Fort Wayne airport averaged slightly below normal for the month, but just barely. For the month, the average high temperature was 61.4 degrees. This was 2 degrees below the normal value of 63.4 degrees. The average low temperature was 42.3 degrees. This was half a degree above the normal value of 41.8 degrees. This resulted in a mean monthly temperature of 51.8 degrees which was 0.8 degrees below the normal value of 52.6 degrees. The temperature ranged from 30 on the 23rd to 82 on the 2nd. Precipitation was just under the climatological mean for the month. There was 2.78 inches for precipitation recorded. This was 0.06 inches below the normal value of 2.84 inches. The greatest 24-hour rainfall total was 0.67 inches from the 2nd to the 3rd. There was a trace of snowfall. This brings the seasonal snowfall total to a trace.

Temperatures at the South Bend airport averaged just above normal for the month. The average daily high temperature was 61.7 degrees. This matched the climatological average for the month. The average low temperature was 43.2 degrees which was 0.6 degrees above the normal value of 42.6 degrees. This resulted in an average monthly temperature of 52.4 degrees which was 0.3 degrees above the normal value of 52.1 degrees. Temperatures ranged from 30 degrees on the 22nd and 23rd to 77 degrees on the 2nd. Precipitation was well above normal values. Due to significant lake-effect/enhanced rainfall, there was 5.68 inches reported at the airport. This was 2.36 inches above the normal value of 3.32 inches. The greatest 24-hour rainfall was 2.28 inches on the 2nd. There were 0.2 inches of snow recorded during the month. That was 0.2 inches below the normal value of 0.4 inches. This brought the seasonal snowfall to 0.2 inches.

...No flooding on area rivers...

Area rivers continue to flow at or slightly below normal values. Area rivers remained below flood stage for the month.

...No drought conditions across the area...

Due to plentiful precipitation over the summer and fall, soil moisture conditions are above normal and there are no drought conditions present over the region.

NWS Form E-3
 (04-2006)
 (PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

Hydrologic Service Area (HSA)
 NORTHERN INDIANA (IWX)

FLOOD STAGE REPORT

REPORT FOR:
 MONTH YEAR
 OCTOBER 2014

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date/Time)		CREST	
		FROM	TO	STAGE (Feet)	DATE/TIME
NO FLOODING REPORTED					

NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA)
		NORTHERN INDIANA (IWX)
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR: MONTH YEAR
		NOVEMBER 2014
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		SIGNATURE Michael Rehbein Service Hydrologist
		DATE December 19, 2014

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

...Cold and snowy month of November...

December was a cold and snowy month across the northern Indiana HSA. Temperatures were well below normal while snowfall was above, and in some areas much above normal. Liquid equivalent amounts were very close to normal values.

At the Fort Wayne airport, the average high temperature was 42.7 degrees. This was 7.2 degrees below the normal value of 49.9 degrees. The average low temperature was 26.8 degrees. This was 6.1 degrees below the normal value of 32.9 degrees. This resulted in an average monthly temperature of 34.8 degrees which was 6.6 degrees below the normal value of 41.4 degrees. For the month, temperatures ranged from 9 degrees on the 18th and 21st to 64 degrees on the 3rd. Precipitation was just below normal for the month. There was 3.05 inches recorded at the airport. This was 0.04 inches below the normal value of 3.09 inches. The greatest 24-hour total was 1.87 inches from the 23rd to the 24th. Of this amount, there was 4.2 inches of snow. This was 1.8 inches above the normal value of 2.4 inches. This brings the seasonal total to 4.2 inches. The greatest 24-hour snowfall was 3.4 inches and the greatest snow depth was 3 inches.

At South Bend, high temperatures averaged 42 degrees. This was 6.2 degrees below the normal value of 48.2 degrees. The average low temperature was 26.8 degrees which was 6.5 degrees below the normal value of 33.3 degrees. This resulted in an average monthly temperature of 34.4 degrees which was 6.3 degrees below the normal value of 40.7 degrees. Temperatures ranged from 10 degrees on the 15th and 18th to 63 degrees on the 3rd. Liquid equivalent precipitation was just slightly above normal for the month. There was 3.37 inches of liquid recorded. This was 0.10 inches above the normal value of 3.27 inches. The greatest 24-hour precipitation was 1.75 inches on the 23rd to the 24th. Of this precipitation, there was 19.1 inches of snow. This was 14.3 inches above the normal value of 4.8 inches. This brings the seasonal total to 19.3 inches which is 14.1 inches above the normal value of 5.2 inches. The greatest 24-hour snowfall was 12.3 inches and the greatest depth was 8 inches.

...Rivers remain below flood stage...

For the most part, rivers remained well below flood stage during the month of November. Runoff from rain and melting snow did not create any problems with any waterway in the northern Indiana HSA. It was cold enough for some ice to form in areas with little to no flow, but it was not creating any problems so far.

...Area soil condition...

Area soil conditions remain moist and were beginning to freeze across the region. There were no drought concerns during the month.

NWS Form E-3
 (04-2006)
 (PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

Hydrologic Service Area (HSA)
 NORTHERN INDIANA (IWX)

FLOOD STAGE REPORT

REPORT FOR:
 MONTH YEAR
 NOVEMBER 2014

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date/Time)		CREST	
		FROM	TO	STAGE/LOW (Feet/CFS)	DATE/TIME
NO FLOODING REPORTED					

NWS Form E-5 (04-2006) (PRES. BY NWS Instruction 10-924)	U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE	HYDROLOGIC SERVICE AREA (HSA) Northern Indiana (IWX)
MONTHLY REPORT OF HYDROLOGIC CONDITIONS		REPORT FOR: MONTH YEAR December 2014
		SIGNATURE Michael Rehbein Service Hydrologist DATE January 27, 2015
TO: Hydrologic Information Center, W/OS31 NOAA's National Weather Service 1325 East West Highway Silver Spring, MD 20910-3283		

When no flooding occurs, include miscellaneous river conditions below the small box, such as significant rises, record low stages, ice conditions, snow cover, droughts, and hydrologic products issued (NWS Instruction 10-924).

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

...Relatively mild temperatures with below normal precipitation...

Temperatures were relatively mild for the month of December. Temperatures ranged from 2 to 5 degrees above normal. Precipitation amounts were below normal.

For the month of December, the average high temperature at the Fort Wayne airport was 38.3 degrees. This was 2.1 degrees above the normal value of 36.2 degrees. The average low temperature was 27 degrees which was 4.9 degrees above the normal value of 22.1 degrees. This resulted in an average monthly temperature of 32.6 degrees which was 3.5 degrees above the normal value of 29.1 degrees. The temperatures ranged from a low of 10 degrees on the 31st to a high of 56 on the 23rd. There was 1.72 inches of liquid equivalent precipitation at the airport during the month. This was 1.05 inches below the normal value of 2.77 inches. Of this total, there was 0.6 inches of snow which was 7.9 inches below the normal value of 8.5 inches. The greatest 24-hour total was 0.57 inches from the 23rd to the 24th. The greatest snowfall total was 0.2 inches. The seasonal snowfall total is 4.8 inches which is 5.8 inches below the normal value of 10.6 inches.

At the South Bend airport, the average high temperature was 38.7 degrees which was 3.5 degrees above the normal value of 35.2 degrees. The average low temperature was 27.7 degrees. This was 5.3 degrees above the normal value of 22.4 degrees. This resulted in an average monthly temperature of 33.2 degrees. This was 4.4 degrees above the normal value of 28.8 degrees. The temperature range was a high of 55 degrees on the 14th to 8 on the 31st. There was 1.47 inches of liquid equivalent precipitation for the month. This was 1.14 inches below the normal value of 2.61 inches. Of this total, there was 0.2 inches of snow for the month. This was 17.1 inches below the normal value of 17.3 inches. This brings the seasonal total to 19.5 inches which is 3 inches below the normal value of 22.5 inches. The greatest 24-hour precipitation amount was 0.67 inches on the 24th. The greatest 24-hour snowfall was 0.2 inches.

...No flooding issues observed but ice increasing...

Due to the relatively low rainfall/snowfall for the month, river flooding was not an issue for the area. However, ice was developing along most of the area waterways as overnight lows were well below freezing. There were no issues with ice jamming at this point.

...No drought conditions...

According to the latest Drought Monitor, there are no drought conditions in the HSA.

NWS Form E-3
(04-2006)
(PRES. BY NWS Instruction 10-924)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL WEATHER SERVICE

Hydrologic Service Area (HSA)
Northern Indiana (IWX)

FLOOD STAGE REPORT

REPORT FOR:
MONTH YEAR
January 2015

RIVER AND STATION	FLOOD STAGE (Feet)	ABOVE FLOOD STAGES (Date)		CREST	
		FROM	TO	STAGE (Feet)	DATE
NO FLOODING REPORTED					