Water-Data Report 2011

03336000 WABASH RIVER AT COVINGTON, IN

Wabash River Basin

LOCATION.--Lat 40°08′24″, long 87°24′24″ referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.35, T.20 N., R.9 W., Warren County, IN, Hydrologic Unit 05120108, on right approach to old U.S. Highway 136 bridge at Covington, 2.9 mi downstream from Oppossum Run, 3.6 mi upstream from Spring Creek, and at mile 271.1.

DRAINAGE AREA.—8,218 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1939 to current year. Gage-height records collected at site 0.4 mi downstream January 1927 to December 1930, and at present site since January 1931 are contained in reports of National Weather Service.

REVISED RECORDS.--WDR IN-73-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 473.97 ft above National Geodetic Vertical Datum of 1929. Prior to Oct. 1, 1979, nonrecording gage on old bridge at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow partially regulated by upstream reservoirs.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in March 1913 reached a stage of 35.1 ft, from floodmark determined by National Weather Service, discharge, 200,000 ft^3/s.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 03336000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/03336000.2011.pdf

03336000 WABASH RIVER AT COVINGTON, IN—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

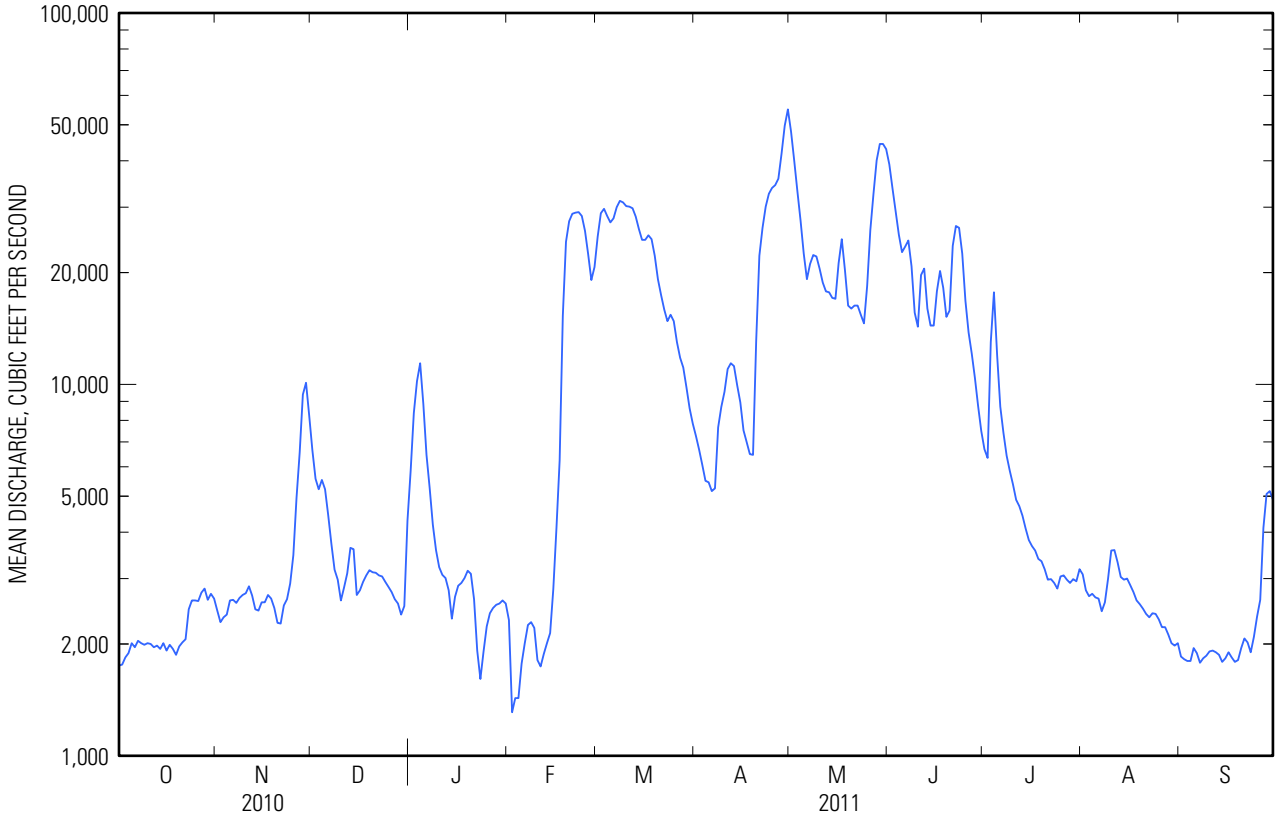
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,750	2,460	6,650	5,850	e2,320	25,000	7,260	47,900	39,100	6,690	3,080	1,850
2	1,760	2,290	5,570	8,370	e1,310	28,900	6,670	40,000	33,700	6,340	2,790	1,820
3	1,840	2,360	5,220	10,200	e1,430	29,700	6,070	33,100	29,200	13,000	2,690	1,800
4	1,890	2,400	5,530	11,400	e1,430	28,400	e5,500	27,600	25,300	17,700	2,730	1,800
5	2,010	2,620	5,220	8,860	e1,770	27,300	5,450	22,500	22,700	12,000	2,670	1,950
6	1,960	2,630	4,440	6,460	e2,010	28,000	5,160	19,200	23,500	8,710	2,650	1,890
7	2,040	2,580	3,720	5,260	e2,250	30,000	5,250	21,100	24,400	7,400	2,450	1,780
8	2,010	2,660	3,170	e4,190	e2,290	31,200	7,660	22,300	20,800	6,430	2,590	1,830
9	1,990	2,710	2,980	e3,580	e2,210	30,900	8,700	22,100	15,600	5,850	3,000	1,860
10	2,010	2,740	2,620	e3,220	e1,810	30,200	9,550	20,500	14,300	5,380	3,570	1,910
11	2,000	2,860	2,840	e3,070	e1,740	30,100	11,000	18,800	19,700	4,890	3,580	1,920
12	1,960	2,700	3,100	e3,010	e1,880	29,800	11,400	17,800	20,500	4,700	3,320	1,900
13	1,980	2,480	3,630	e2,790	e2,010	28,300	11,200	17,700	16,000	4,430	3,030	1,870
14	1,940	2,460	e3,600	e2,340	e2,140	26,200	9,950	17,100	14,400	4,090	2,980	1,790
15	2,010	2,590	e2,710	e2,680	e2,810	24,500	8,940	17,000	14,400	3,810	3,000	1,830
16	1,920	2,590	e2,790	e2,870	e4,110	24,500	7,520	21,200	17,800	3,670	2,880	1,900
17	1,990	2,710	e2,940	e2,920	6,240	25,200	6,990	24,600	20,200	3,570	2,760	1,840
18	1,940	2,650	e3,060	e3,010	15,300	24,600	6,490	20,300	18,200	3,390	2,620	1,790
19	1,870	2,500	e3,160	e3,150	24,200	22,200	6,460	16,300	15,200	3,340	2,560	1,810
20	1,970	2,280	e3,120	e3,090	27,500	19,200	13,100	16,000	15,800	3,180	2,490	1,950
21	2,020	2,270	e3,110	e2,640	28,800	17,400	22,200	16,300	23,600	2,980	2,410	2,070
22	2,060	2,540	e3,060	e1,920	29,000	15,900	26,400	16,300	26,700	2,990	2,360	2,020
23	2,480	2,640	e3,040	e1,610	29,100	14,800	30,100	15,400	26,400	2,920	2,420	1,900
24	2,620	2,910	e2,940	e1,910	28,400	15,400	32,600	14,600	22,500	2,820	2,410	2,090
25	2,620	3,470	e2,850	e2,230	25,900	14,800	33,800	18,400	16,800	3,040	2,330	2,370
26	2,610	4,950	e2,760	e2,420	22,400	13,000	34,400	26,000	13,800	3,060	2,220	2,630
27	2,750	6,560	e2,640	e2,500	19,100	11,800	35,800	32,600	12,100	2,980	2,220	4,110
28	2,820	9,390	e2,570	e2,550	20,700	11,100	41,800	40,100	10,400	2,920	2,120	5,070
29	2,630	10,100	e2,400	e2,570	---	9,820	49,700	44,400	8,750	2,990	2,010	5,160
30	2,730	8,240	e2,530	e2,620	---	8,620	55,000	44,400	7,490	2,950	1,980	4,900
31	2,650	---	e4,300	e2,570	---	7,840	---	43,000	---	3,180	2,010	---
Total	66,830	104,340	108,270	121,860	310,160	684,680	522,120	774,600	589,340	161,400	81,930	69,410
Mean	2,156	3,478	3,493	3,931	11,080	22,090	17,400	24,990	19,640	5,206	2,643	2,314
Max	2,820	10,100	6,650	11,400	29,100	31,200	55,000	47,900	39,100	17,700	3,580	5,160
Min	1,750	2,270	2,400	1,610	1,310	7,840	5,160	14,600	7,490	2,820	1,980	1,780
Cfsm	0.26	0.42	0.42	0.48	1.35	2.69	2.12	3.04	2.39	0.63	0.32	0.28
In.	0.30	0.47	0.49	0.55	1.40	3.10	2.36	3.51	2.67	0.73	0.37	0.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3,607	4,987	7,636	9,660	11,150	13,600	12,970	10,340	8,885	5,673	3,559	3,066
Max	18,360	23,930	22,080	49,700	34,450	34,840	28,470	43,540	36,010	31,750	13,470	14,030
(WY)	(2002)	(1993)	(1968)	(1950)	(1959)	(1982)	(1957)	(1943)	(1958)	(2003)	(1998)	(2003)
Min	738	919	810	896	1,357	1,915	3,536	1,814	1,542	1,212	640	545
(WY)	(1965)	(1965)	(1964)	(1977)	(1963)	(1941)	(1941)	(1941)	(1988)	(1988)	(1941)	(1941)

03336000 WABASH RIVER AT COVINGTON, IN—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1940 - 2011	
Annual total	2,880,620		3,594,940			
Annual mean	7,892		9,849		7,908	
Highest annual mean					14,980	1950
Lowest annual mean					1,862	1941
Highest daily mean	e 41,000	Jun 24	55,000	Apr 30	143,000	May 20, 1943
Lowest daily mean	1,590	Sep 19	e 1,310	Feb 2	487	Sep 29, 1941
Annual seven-day minimum	1,730	Sep 14	1,780	Feb 2	497	Sep 24, 1941
Maximum peak flow			57,600	Apr 30	147,000	May 20, 1943
Maximum peak stage			26.09	Apr 30	32.44	May 20, 1943
Annual runoff (cfsm)	0.960		1.20		0.962	
Annual runoff (inches)	13.04		16.27		13.07	
10 percent exceeds	18,500		27,400		19,400	
50 percent exceeds	4,900		3,470		4,560	
90 percent exceeds	1,990		1,940		1,550	

e, estimated