

03353000 WHITE RIVER AT INDIANAPOLIS, IN

White River Basin

LOCATION.--Lat 39°44'14", long 86°10'08" referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.14, T.15 N., R.3 E., Marion County, IN, Hydrologic Unit 05120201, on left bank under Raymond Street bridge in Indianapolis, 2.3 mi upstream from Eagle Creek, 2.9 mi upstream from Indianapolis Power and Light Company dam, 3.7 mi downstream from Fall Creek, and at mile 229.2.

DRAINAGE AREA.--1635.00 mi², drainage area derived from the "Drainage Areas of Indiana Streams" publication also known as the Hogget maps. Since the gage was moved from Morris St. to Raymond the difference in area was calculated from Streamstats.

SURFACE-WATER RECORDS

PERIOD OF RECORD.-- March 1904 to July 1906 and April 1930 to current year. Gage-height record published in reports of National Weather Service for site 2.0 mi upstream Feb. 8, 1911, to Mar. 25, 1913, and at site 3.2 mi upstream since Oct. 16, 1913. Prior to October 1948, published as West Fork White River at Indianapolis.

REVISED RECORDS.-- WSP 1335: 1932-33, 1937, 1939-41. WSP 1505: 1938. WSP 2109: Drainage area. WDR IN-01-1 (P).

GAGE.-- Data Collection Platform. Datum of gage is 662.26 ft above National Geodetic Vertical Datum of 1929. March 1904 to July 1906, non-recording gage at railroad bridge 1.9 mi upstream at datum approximately 2.9 ft higher. April 1930 to July 20, 1931, non-recording gage at Indianapolis sanitation plant, 1.2 mi downstream at datum 2.26 ft lower. July 21, 1931 to Mar. 2, 1932, non-recording gage and March 3, 1932, to September, 30 1940, water-stage recorder at Morris Street, 1.1 mi upstream at datum 2.26 ft lower. October 1, 1940, to September 30, 1998, water-stage recorder at Morris Street, 1.1 mi upstream at present datum. October 1, 1998, to May 16, 2000, Acoustic Velocity Meter at Interstate 70 bridge, 1.3 mi upstream at present datum. May 16, 2000 to Jan 16, 2003, Acoustic Velocity Meter and Data collection Platform at Raymond Street. Jan 16, 2003 to present, water-stage recorder at Raymond Street.

REMARKS.-- Records poor. Stage-discharge relation affected at times by large releases from Eagle Creek and by variable leakage at Indianapolis Power and Light Company dam. Natural flow affected by regulation of Morse Reservoir, Geist Reservoir and by diversion of municipal water supply by the Indianapolis Water Company.

EXTREMES OUTSIDE PERIOD OF RECORD.-- Flood of Mar. 26, 1913, reached a stage of 30.0 ft, from floodmarks determined by Indianapolis Water Company, discharge, 70,000 ft³/s.

03353000 WHITE RIVER AT INDIANAPOLIS, IN—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	422	1,000	518	993	7,250	5,480	2,020	3,090	3,870	2,150	247	560
2	645	1,050	571	990	3,990	3,990	1,700	2,490	5,000	2,550	244	273
3	528	1,020	560	945	2,600	3,080	1,440	2,090	3,620	4,750	478	256
4	476	934	592	915	2,040	2,390	1,280	1,820	2,320	3,950	499	222
5	667	832	653	943	1,680	2,040	1,170	1,630	1,650	2,470	440	185
6	1,590	741	622	938	1,390	2,020	1,060	1,510	1,340	1,750	319	165
7	1,370	716	634	901	1,280	1,920	988	1,360	1,160	1,410	267	153
8	1,420	690	809	846	1,330	1,820	985	1,260	989	1,140	448	150
9	943	651	1,070	941	1,570	2,070	1,040	1,250	886	969	582	175
10	696	617	1,820	1,280	1,770	2,670	984	2,010	1,950	868	566	178
11	547	599	2,400	5,570	1,800	3,510	2,540	1,840	4,100	897	465	160
12	466	1,220	2,360	9,060	1,620	3,430	8,010	1,560	3,230	851	379	200
13	412	1,560	1,710	21,800	1,520	3,350	8,760	1,340	2,870	710	297	210
14	400	1,620	1,340	27,000	1,360	2,560	5,970	1,210	6,630	653	233	183
15	463	1,450	1,190	25,900	1,240	2,010	3,590	1,070	7,060	588	215	244
16	430	1,160	1,080	15,600	1,210	1,700	4,030	986	3,890	512	205	213
17	401	979	989	6,220	1,100	1,560	9,850	1,080	2,240	480	187	196
18	713	866	941	4,190	966	1,730	10,500	1,110	1,670	441	194	198
19	754	789	862	3,240	1,030	1,730	29,700	1,400	1,320	402	196	693
20	1,090	731	1,100	2,690	1,030	1,940	32,500	1,200	1,070	371	174	774
21	1,050	702	1,630	2,310	939	1,680	19,700	1,010	911	414	164	783
22	836	669	2,600	1,870	1,030	1,420	8,250	946	815	478	165	565
23	1,230	704	2,350	1,440	1,080	1,250	4,820	1,010	1,220	449	168	478
24	1,940	680	1,780	1,340	1,050	1,170	9,230	890	2,330	370	165	389
25	3,000	640	1,460	1,270	1,000	1,290	12,300	780	1,220	344	205	298
26	2,430	589	1,330	1,160	2,100	1,390	10,200	714	1,000	307	268	241
27	1,710	579	1,300	1,090	5,200	1,440	5,700	1,180	909	482	255	220
28	1,250	566	1,180	1,410	7,220	1,920	4,380	1,840	894	306	223	200
29	1,030	540	1,110	1,630	---	2,940	4,360	3,740	911	e260	230	439
30	927	521	1,080	4,720	---	3,100	3,930	2,660	1,050	e236	229	546
31	956	---	1,020	7,930	---	2,440	---	2,060	---	231	408	---
Total	30,792	25,415	38,661	157,132	57,395	71,040	210,987	48,136	68,125	31,789	9,115	9,547
Mean	993	847	1,247	5,069	2,050	2,292	7,033	1,553	2,271	1,025	294	318
Max	3,000	1,620	2,600	27,000	7,250	5,480	32,500	3,740	7,060	4,750	582	783
Min	400	521	518	846	939	1,170	984	714	815	231	164	150
Cfsm	0.61	0.52	0.76	3.10	1.25	1.40	4.30	0.95	1.39	0.63	0.18	0.19
In.	0.70	0.58	0.88	3.58	1.31	1.62	4.80	1.10	1.55	0.72	0.21	0.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1931 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	517	938	1,530	2,154	2,171	2,845	2,736	2,019	1,622	953	524	496
Max	4,791	6,425	6,035	12,120	6,452	8,523	7,777	8,594	7,910	6,173	3,399	5,814
(WY)	(2002)	(1994)	(2012)	(1950)	(1950)	(2007)	(1964)	(1943)	(1958)	(2003)	(1979)	(2003)
Min	70.1	110	77.3	78.4	178	207	274	113	126	90.3	42.5	31.5
(WY)	(1941)	(1935)	(1964)	(1977)	(1964)	(1941)	(1941)	(1941)	(1988)	(1936)	(1941)	(1941)

03353000 WHITE RIVER AT INDIANAPOLIS, IN—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1931 - 2013	
Annual total	446,253		758,134			
Annual mean	1,219		2,077		1,538	
Highest annual mean					2,698	1950
Lowest annual mean					233	1941
Highest daily mean	10,100	Jan 28	32,500	Apr 20	37,100	Jan 6, 2005
Lowest daily mean	66	Aug 24	150	Sep 8	8.0	Sep 29, 1941
Annual seven-day minimum	77	Aug 20	167	Sep 5	12	Sep 24, 1941
Maximum peak flow			35,400	Apr 20	42,500	Sep 1, 2003
Maximum peak stage			17.95	Apr 20	21.57	Jan 16, 1937
Annual runoff (cfs)	0.746		1.27		0.941	
Annual runoff (inches)	10.15		17.25		12.78	
10 percent exceeds	2,370		4,010		3,580	
50 percent exceeds	818		1,080		700	
90 percent exceeds	175		246		156	

