



Water-Data Report 2011

03335671 ELLIOTT DITCH NEAR LAFAYETTE, IN

Wabash River Basin

LOCATION.--Lat 40°22'58", long 86°50'52" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.2, T.22 N., R.4 W., Tippecanoe County, IN, Hydrologic Unit 05120108, on left bank in the northwest corner of Tippecanoe County Highway Department property, 3.5 mi southeast of Lafayette courthouse, 3.6 mi southwest of I-65, and at river mile 4.58.

DRAINAGE AREA.--11.8 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 2008 to current year.

GAGE.--Water-stage recorder. Datum of gage is 630 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 471 ft³/s, Jun. 20, gage height 7.41 ft; minimum discharge .10 (estimated) ft³/s, Dec. 15 and 19, gage height 1.34 ft Nov. 18 and 19.

03335671 ELLIOTT DITCH NEAR LAFAYETTE, 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	0.60	0.24	1.5	25	e0.25	11	1.6	11	7.7	7.6	0.63	0.37
2	4.1	0.20	1.0	4.2	e0.23	6.4	1.3	8.0	6.3	12	0.57	0.32
3	0.69	0.19	0.71	2.5	e0.21	4.3	1.0	6.5	5.5	20	2.6	0.29
4	0.51	0.25	1.3	1.7	e0.21	5.5	6.7	4.5	5.3	4.6	0.64	0.43
5	0.52	0.75	1.0	1.3	e0.20	34	1.8	3.9	5.3	3.3	0.53	0.36
6	0.55	0.31	0.52	0.99	e0.19	11	1.3	5.5	4.8	2.7	0.52	0.34
7	0.67	0.25	0.36	0.82	e0.19	6.5	1.1	4.4	4.3	2.2	13	0.26
8	0.64	0.24	0.31	0.63	e0.18	5.1	23	3.4	3.5	2.1	17	1.6
9	0.56	0.21	0.30	0.48	e0.18	17	5.0	2.9	8.1	1.9	15	4.1
10	0.55	0.20	e0.29	0.45	e0.17	9.5	3.1	2.8	3.7	1.7	2.8	1.2
11	0.56	0.20	e1.1	e0.46	e0.17	5.9	5.0	2.6	4.5	1.6	1.7	0.48
12	0.47	0.12	e2.3	e0.44	e0.16	4.3	2.3	2.4	2.7	1.5	1.1	0.43
13	4.1	0.43	e0.58	e0.41	e0.19	3.2	1.6	2.3	2.3	1.4	7.4	0.42
14	0.93	0.58	e0.16	e0.38	e1.0	2.6	1.4	2.4	2.1	1.3	4.9	1.9
15	0.62	0.36	e0.10	e0.31	e5.6	28	1.5	3.6	16	1.3	1.7	1.4
16	0.52	0.21	e0.12	e0.25	e9.6	9.1	3.4	2.8	4.2	1.2	1.00	0.38
17	0.46	0.14	e0.12	e0.23	22	5.7	1.7	2.1	2.6	1.2	0.63	0.28
18	0.45	e0.16	e0.11	e1.0	13	4.1	1.3	2.0	2.3	1.2	0.53	0.29
19	0.54	e0.17	e0.10	e0.81	5.2	3.0	35	1.8	2.1	1.1	0.52	9.5
20	0.50	e0.18	e0.11	e0.53	5.2	2.6	43	1.7	203	1.0	0.51	1.3
21	0.47	e0.17	e0.11	e0.44	29	2.4	10	5.7	40	1.0	0.96	0.70
22	0.39	e0.80	e0.12	e0.39	12	2.1	45	2.5	16	0.89	0.55	0.84
23	0.36	12	e0.14	e0.34	5.7	2.7	27	2.5	9.9	0.90	3.6	0.70
24	0.41	5.7	e0.14	e0.32	5.0	2.3	14	1.6	7.3	9.5	12	0.53
25	0.41	47	e0.15	e0.31	5.4	1.6	9.7	52	5.1	2.0	9.7	10
26	7.9	6.9	e0.18	e0.29	4.1	1.4	106	98	5.1	1.1	2.1	15
27	0.74	2.2	e0.15	e0.29	4.7	1.3	96	39	7.1	0.86	1.3	6.5
28	0.40	1.3	e0.13	e0.30	49	1.1	113	44	3.5	0.78	0.84	3.9
29	0.31	1.6	e0.12	e0.31	---	1.1	29	39	2.9	2.0	0.56	2.2
30	0.27	6.1	e1.8	e0.30	---	1.1	16	17	3.1	0.89	0.42	1.2
31	0.26	---	e3.4	e0.28	---	1.1	---	11	---	0.70	0.40	---
Total	30.46	89.16	18.53	46.46	179.03	197.0	607.8	388.9	396.3	91.52	105.71	67.22
Mean	0.98	2.97	0.60	1.50	6.39	6.35	20.3	12.5	13.2	2.95	3.41	2.24
Max	7.9	47	3.4	25	49	34	113	98	203	20	17	15
Min	0.26	0.12	0.10	0.23	0.16	1.1	1.0	1.6	2.1	0.70	0.40	0.26
Cfsm	0.08	0.25	0.05	0.13	0.54	0.54	1.72	1.06	1.12	0.25	0.29	0.19
In.	0.10	0.28	0.06	0.15	0.56	0.62	1.92	1.23	1.25	0.29	0.33	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2008 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	3.68	3.45	3.93	2.44	6.84	8.48	14.4	13.7	20.7	8.48	3.88	2.18
Max	7.80	5.85	7.55	4.04	11.2	11.8	20.3	25.7	29.3	18.4	5.26	2.49
(WY)	(2010)	(2010)	(2010)	(2010)	(2009)	(2009)	(2011)	(2009)	(2010)	(2008)	(2009)	(2008)
Min	0.98	1.52	0.60	1.50	2.93	6.35	4.55	7.98	13.2	2.95	3.20	1.75
(WY)	(2011)	(2009)	(2011)	(2011)	(2010)	(2011)	(2010)	(2010)	(2011)	(2011)	(2010)	(2009)

03335671 ELLIOTT DITCH NEAR LAFAYETTE, IN—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 2008 - 2011	
Annual total	2,210.09	2,218.09		
Annual mean	6.06	6.08	7.47	
Highest annual mean			8.86	2009
Lowest annual mean			6.08	2011
Highest daily mean	323 Jun 22	203 Jun 20	323 Jun 22, 2010	
Lowest daily mean	0.10 Dec 15	0.10 Dec 15	0.10 Dec 15, 2010	
Annual seven-day minimum	0.11 Dec 15	0.11 Dec 15	0.11 Dec 15, 2010	
Maximum peak flow		417 Jun 20	517 Jun 22, 2010	
Maximum peak stage		7.41 Jun 20	8.96 Jun 22, 2010	
Instantaneous low flow			0.18 Aug 27, 2008	
Annual runoff (cfsm)	0.513	0.515	0.633	
Annual runoff (inches)	6.97	6.99	8.60	
10 percent exceeds	13	12	16	
50 percent exceeds	2.3	1.4	2.9	
90 percent exceeds	0.31	0.21	0.47	

