Water-Data Report 2009

04195500 Portage River at Woodville, OH

Western Lake Erie Basin
Cedar-Portage Subbasin

LOCATION.--Lat 41°26′58″, long 83°21′41″ referenced to North American Datum of 1927, Sandusky County, OH, Hydrologic Unit 04100010, on left bank at upstream side of bridge on U.S. Highway 20 in Woodville, 600 ft downstream from unnamed tributary, and 10.3 mi upstream from Sugar Creek.

DRAINAGE AREA.--428 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1928 to December 1935, October 1939 to current year.

REVISED RECORDS.--WSP 894: 1929-30. WSP 1207: 1933. WSP 1387: 1931, 1933. WSP 1912: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 614.75 ft NGVD 1929. Prior to Oct. 8, 1933, nonrecording gage; Oct. 9, 1933-Dec. 30, 1935, water-stage recorder; Oct. 17-Nov. 29, 1939, nonrecording gage, all at same site and datum.

REMARKS.--Records fair except for periods of estimated record, which are poor. Flow supplemented by water imported from Maumee River Basin for municipal supply for city of Bowling Green 16 mi upstream. The importation of this water began Sept. 1, 1951. Water-quality data formerly collected at this site 800 ft downstream. Sediment data formerly collected at this site. National Weather Service gage height telemeter at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in Mar. 1913 reached a stage of 17 ft, from information by local residents; discharge, 17,000 ft^3/s, from rating curve extended above 11,500 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 28	2230	4,550	9.36
Feb 13	0400	9,930	13.12
Mar 10	0330	*10,200	*13.27
Apr 15	1630	3,690	8.52

Minimum discharge, 7.0 ft^3/s, Aug. 14, 16, 17, Sept. 28, 29, gage height, 1.58 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	17	12	39	474	e37	948	107	738	83	47	22	18
2	18	12	e52	339	e37	406	104	706	79	42	16	13
3	17	16	65	244	e38	284	102	435	77	37	12	11
4	16	15	e54	e175	e39	e208	159	302	65	33	10	10
5	16	13	e49	e129	e37	e181	168	217	64	29	9.0	9.5
6	14	12	e45	e113	e36	e168	1,320	173	60	27	8.4	9.2
7	12	16	e43	e99	e38	e170	2,600	159	50	24	7.7	12
8	12	11	e43	e86	e241	e1,240	1,230	158	44	21	8.1	16
9	12	9.6	e45	e110	e743	e6,790	641	244	41	18	8.1	72
10	12	10	e513	e100	e2,500	9,710	404	235	39	16	9.4	79
11	14	11	1,970	e79	e1,700	8,540	308	143	38	25	9.4	47
12	13	12	796	e72	e4,430	7,410	237	109	40	39	9.4	31
13	11	20	379	e68	9,150	2,630	192	96	175	44	8.1	22
14	9.2	41	232	e61	4,160	1,270	355	223	116	34	7.2	17
15	8.5	85	390	e56	1,780	799	3,280	1,380	70	24	7.6	14
16	12	881	847	e52	1,060	547	2,370	650	52	19	7.4	12
17	55	757	454	e48	675	418	1,020	371	44	14	7.5	11
18	58	349	265	e44	558	345	594	229	39	12	9.2	10
19	35	183	292	e43	1,070	295	430	158	247	12	30	10
20	24	117	1,470	e39	698	243	501	122	3,080	11	20	10
21	17	85	914	e45	371	195	990	105	2,110	12	17	10
22	16	61	e280	e40	e210	166	745	93	667	15	13	9.9
23	17	51	e314	e39	e181	144	485	81	311	17	35	11
24	17	51	e430	e41	e163	133	351	74	190	26	22	9.9
25	18	43	e994	e40	e147	126	280	67	135	41	15	9.7
26	21	42	e668	e40	e163	132	217	61	154	32	12	10
27	32	43	e1,150	e40	e905	127	177	69	122	24	12	8.7
28	24	39	e2,720	e39	2,250	113	161	355	85	18	13	8.7
29	19	35	3,660	e38	---	116	190	399	64	20	17	7.8
30	18	34	1,540	e39	---	140	251	191	54	32	26	8.5
31	15	---	818	e37	---	122	---	113	---	31	27	---
Total	599.7	3,066.6	21,531	2,869	33,417	44,116	19,969	8,456	8,395	796	435.5	527.9
Mean	19.3	102	695	92.5	1,193	1,423	666	273	280	25.7	14.0	17.6
Max	58	881	3,660	474	9,150	9,710	3,280	1,380	3,080	47	35	79
Min	8.5	9.6	39	37	36	113	102	61	38	11	7.2	7.8
Cfsm	0.05	0.24	1.62	0.22	2.79	3.32	1.56	0.64	0.65	0.06	0.03	0.04
In.	0.05	0.27	1.87	0.25	2.90	3.83	1.74	0.73	0.73	0.07	0.04	0.05
MEAN adjusted for diversion	12.0	95.6	689	86.3	1187	1417	660	266	272	17.1	5.5	9.6
CFSM adjusted for diversion	0.03	0.22	1.61	0.20	2.77	3.31	1.54	0.62	0.64	0.04	0.01	0.02
IN adjusted for diversion	0.03	0.25	1.8	0.23	2.89	3.82	1.72	0.72	0.71	0.05	0.01	0.03

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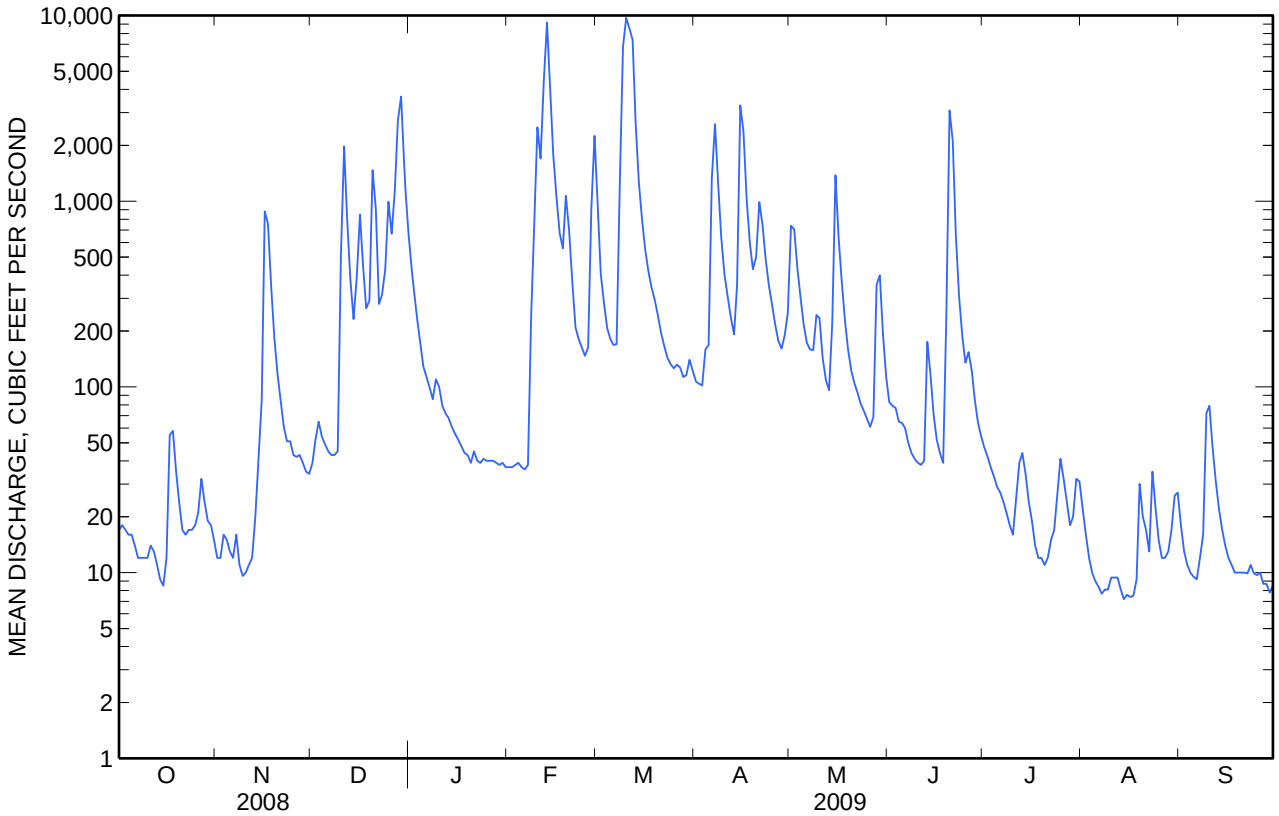
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	90.8	201	388	498	552	769	647	417	304	150	97.7	83.2
Max	722	1,595	1,722	2,296	1,839	2,542	1,965	1,685	1,875	821	1,601	1,088
(WY)	(1951)	(1973)	(1991)	(2005)	(2008)	(1982)	(1957)	(1943)	(1981)	(1958)	(1998)	(1981)
Min	2.96	3.61	4.37	2.24	2.00	118	41.7	25.4	9.29	2.81	3.09	3.67
(WY)	(1935)	(1935)	(1935)	(1945)	(1934)	(1941)	(1946)	(1934)	(1988)	(1930)	(1933)	(1944)

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1928 - 2009	
Annual total	234,645.1		144,178.7			
Annual mean	[a]634		[a]388		[a]346	
Highest annual mean					726	2008
Lowest annual mean					81.4	1931
Highest daily mean	12,600	Feb 7	9,710	Mar 10	12,600	Feb 7, 2008
Lowest daily mean	8.5	Oct 15	7.2	Aug 14	0.40	Aug 26, 1931
Annual seven-day minimum	9.7	Aug 30	8.1	Aug 12	0.93	Oct 12, 1934
Maximum peak flow			10,200	Mar 10	12,800	Feb 7, 2008
Maximum peak stage			13.27	Mar 10	14.66	Feb 7, 2008
Instantaneous low flow			7.0	Aug 14	0.40	Aug 16, 1931
Annual runoff (cfsm)	1.50		0.92		0.82	
Annual runoff (inches)	[a]20.15		[a]12.32		[a]10.98	
10 percent exceeds	1,530		891		890	
50 percent exceeds	176		55		74	
90 percent exceeds	12		11		8.7	

[a] Adjusted for diversion from Maumee River Basin for municipal supply by City of Bowling Green.