Water-Data Report 2011

04206000 CUYAHOGA RIVER AT OLD PORTAGE, OH

Southern Lake Erie Basin
Cuyahoga Subbasin

LOCATION.--Lat 41°08′08″, long 81°32′50″ referenced to North American Datum of 1927, Summit County, OH, Hydrologic Unit 04110002, on right bank 230 ft upstream from North Portage Path bridge at Old Portage, 1.2 mi downstream from Little Cuyahoga River, and 4 mi northwest of Akron City Hall, Akron.

DRAINAGE AREA.--404 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1921 to December 1935, March 1939 to current year.

REVISED RECORDS.--WSP 1307: 1924(M). WSP 1912: Drainage area. WDR OH-79-2: 1974(M), 1976(M).

GAGE.--Water-stage recorder. Datum of gage is 740.11 ft NGVD 1929, unadjusted. Prior to Dec. 21, 1923, nonrecording gage at same site and datum.

REMARKS.--Records fair. Natural flow of stream affected by diversions, storage reservoirs, and powerplants. An average of 53.2 ft^3/s was diverted upstream from gage for municipal supply of city of Akron. Sewage from city enters river 2.9 mi downstream from station. Some diversions from the Tuscarawas River Basin drainage into this basin at Portage Lakes (see REMARKS on site data sheet for station 0311700). Sediment data formerly collected at this site.

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 04206000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04206000.2011.pdf

04206000 CUYAHOGA RIVER AT OLD PORTAGE, OH—Continued

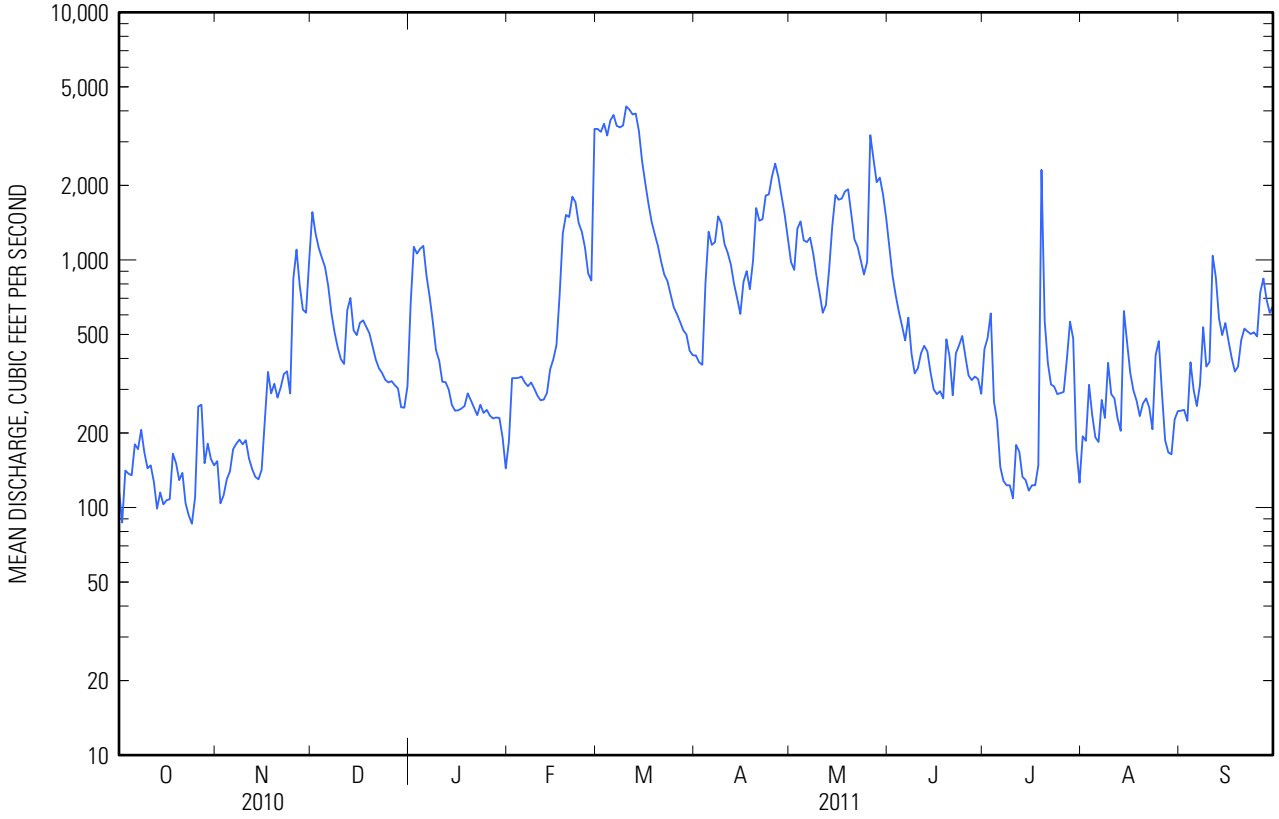
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	118	154	1,560	665	185	3,380	411	979	1,130	436	194	246
2	87	104	1,280	1,130	333	3,290	386	912	865	484	186	248
3	141	112	1,120	1,060	333	3,550	377	1,340	721	608	313	224
4	137	130	1,020	1,110	334	3,180	805	1,430	618	268	236	386
5	135	140	935	1,140	338	3,660	1,300	1,200	542	224	192	298
6	180	172	785	863	320	3,850	1,150	1,180	473	146	184	257
7	172	181	612	709	309	3,480	1,180	1,230	585	128	272	314
8	206	188	510	562	320	3,430	1,500	1,060	418	123	230	535
9	167	180	443	432	302	3,490	1,410	865	348	123	384	371
10	144	187	397	392	283	4,170	1,160	735	365	109	287	387
11	148	158	380	322	271	4,050	1,070	612	420	179	276	1,040
12	127	143	626	321	273	3,870	959	657	450	168	229	849
13	99	133	702	300	290	3,900	802	913	427	133	204	580
14	115	130	520	260	361	3,320	700	1,370	351	129	622	497
15	103	142	497	246	397	2,510	605	1,830	300	117	464	556
16	107	225	557	247	453	2,050	816	1,750	287	123	350	470
17	108	353	570	251	724	1,690	901	1,770	295	123	297	402
18	165	289	537	257	1,280	1,430	762	1,890	276	148	270	354
19	151	316	505	289	1,520	1,270	990	1,930	478	2,310	234	371
20	129	278	447	271	1,490	1,140	1,620	1,530	407	567	263	474
21	138	305	396	253	1,800	987	1,440	1,210	284	384	276	528
22	104	346	365	236	1,710	873	1,460	1,130	420	314	253	514
23	93	355	349	260	1,410	822	1,820	995	452	308	207	502
24	86	289	328	241	1,300	726	1,840	873	493	287	412	510
25	110	842	320	248	1,120	644	2,180	981	407	290	470	491
26	256	1,100	324	235	882	604	2,450	3,190	341	293	290	738
27	260	790	312	229	826	562	2,160	2,560	327	397	187	841
28	151	630	303	231	3,380	520	1,810	2,060	338	563	167	692
29	181	612	254	230	---	500	1,520	2,150	330	481	164	611
30	157	997	253	192	---	430	1,220	1,840	288	172	227	652
31	148	---	309	144	---	412	---	1,480	---	126	245	---
Total	4,423	9,981	17,516	13,326	22,544	67,790	36,804	43,652	13,436	10,261	8,585	14,938
Mean	143	333	565	430	805	2,187	1,227	1,408	448	331	277	498
Max	260	1,100	1,560	1,140	3,380	4,170	2,450	3,190	1,130	2,310	622	1,040
Min	86	104	253	144	185	412	377	612	276	109	164	224
Cfsm	0.35	0.82	1.40	1.06	1.99	5.41	3.04	3.49	1.11	0.82	0.69	1.23
In.	0.41	0.92	1.61	1.23	2.08	6.24	3.39	4.02	1.24	0.94	0.79	1.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1922 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	228	329	499	601	675	895	742	501	328	247	195	220
Max	1,205	1,307	1,516	2,213	1,592	2,187	1,520	1,408	1,371	1,446	772	1,150
(WY)	(1927)	(1986)	(1928)	(2005)	(1976)	(2011)	(1940)	(2011)	(1989)	(2003)	(1992)	(1926)
Min	50.8	56.5	48.3	83.3	86.1	282	166	77.0	72.4	50.4	56.9	47.1
(WY)	(1934)	(1964)	(1964)	(1961)	(1963)	(1931)	(1935)	(1934)	(1988)	(1954)	(1962)	(1964)

04206000 CUYAHOGA RIVER AT OLD PORTAGE, OH—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1922 - 2011	
Annual total	155,095		263,256			
Annual mean	425		721		454	
Highest annual mean					736	2007
Lowest annual mean					181	1934
Highest daily mean	2,700	Mar 15	4,170	Mar 10	6,040	Jan 22, 1959
Lowest daily mean	72	Sep 14	86	Oct 24	24	Sep 24, 1964
Annual seven-day minimum	84	Sep 5	115	Oct 11	40	Oct 30, 1944
Maximum peak flow			5,380	Jul 19	6,500	Jan 21, 1959
Maximum peak stage			13.19	Jul 19	13.74	May 22, 2004
Instantaneous low flow			78	Oct 26	26	Sep 2, 1945
Annual runoff (cfsm)	1.05		1.79		1.12	
Annual runoff (inches)	14.28		24.24		15.28	
10 percent exceeds	909		1,700		1,060	
50 percent exceeds	293		402		280	
90 percent exceeds	114		144		82