Water-Data Report 2013

04164500 NORTH BRANCH CLINTON RIVER NEAR MOUNT CLEMENS, MI

St. Clair-Detroit Basin
Clinton Subbasin

LOCATION.--Lat 42°37′45″, long 82°53′20″ referenced to North American Datum of 1927, in SW ¼ sec.35, T.3 N., R.13 E., Macomb County, MI, Hydrologic Unit 04090003, on left bank at upstream side of bridge on State Highway 59, 2 mi north of Mount Clemens, and 3.6 mi upstream from mouth.

DRAINAGE AREA.--199 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1947 to current year.

REVISED RECORDS.--WSP 1437: 1948. WSP 1557: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Concrete control since September 1961. Datum of gage is 576.38 ft above NGVD 29 (levels by Michigan Department of Natural Resources). Prior to Nov. 15, 1949 and Oct. 3, 1997 to Apr. 22, 1998, nonrecording gage at same site and datum.

REMARKS.--Records fair except those below 10 ft^3/s, which are poor. Some regulation at times by mill upstream from station. Gage-height telemeter at station.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 04164500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/04164500.2013.pdf

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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	9.0	51	19	34	1,020	365	93	329	432	120	47	24
2	9.3	49	20	32	e589	354	87	260	418	76	55	23
3	9.0	37	20	25	e386	195	73	195	222	59	39	17
4	8.3	28	27	30	303	138	62	154	113	50	28	14
5	11	22	33	29	214	110	57	134	77	45	23	12
6	10	20	37	27	141	127	54	117	62	40	20	7.9
7	12	19	33	30	92	183	52	104	55	37	19	6.0
8	11	18	29	31	73	257	52	92	52	46	21	5.8
9	9.0	18	28	34	58	228	55	84	49	116	43	5.1
10	6.5	17	31	38	55	317	167	83	59	326	30	5.5
11	8.2	18	32	119	71	447	564	89	152	155	21	7.7
12	9.8	20	29	361	122	733	2,020	89	351	79	19	20
13	8.6	23	26	502	132	1,020	2,420	77	389	52	22	33
14	15	30	24	558	127	667	1,600	69	455	41	18	21
15	19	29	23	527	e110	383	889	64	442	35	16	15
16	19	24	23	e246	e91	243	522	61	205	40	14	13
17	19	21	24	e136	e68	197	369	54	148	33	11	12
18	16	18	24	e112	66	168	422	48	373	32	11	12
19	17	17	24	90	71	156	1,170	45	426	31	8.6	11
20	20	16	27	e75	133	149	1,880	42	228	288	6.5	12
21	20	16	66	e58	134	122	1,400	41	117	136	5.5	16
22	19	16	123	e43	83	111	718	38	81	37	5.6	18
23	22	18	106	e34	55	102	425	38	67	30	4.6	15
24	32	19	73	32	52	93	362	38	58	31	3.7	14
25	34	20	49	28	47	95	672	39	59	31	3.7	12
26	31	19	e50	27	48	96	865	37	90	30	2.9	11
27	27	18	e45	27	85	95	571	33	86	34	3.6	11
28	22	19	38	30	214	97	384	91	269	45	12	9.5
29	18	18	e32	137	---	100	321	439	430	35	16	9.0
30	21	18	e30	601	---	100	365	310	272	27	14	9.8
31	34	---	e33	1,380	---	96	---	317	---	25	16	---
Total	526.7	676	1,178	5,433	4,640	7,544	18,691	3,611	6,237	2,162	559.7	402.3
Mean	17.0	22.5	38.0	175	166	243	623	116	208	69.7	18.1	13.4
Max	34	51	123	1,380	1,020	1,020	2,420	439	455	326	55	33
Min	6.5	16	19	25	47	93	52	33	49	25	2.9	5.1
Cfsm	0.09	0.11	0.19	0.88	0.83	1.22	3.13	0.59	1.04	0.35	0.09	0.07
In.	0.10	0.13	0.22	1.02	0.87	1.41	3.49	0.68	1.17	0.40	0.10	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	54.4	91.8	146	145	211	357	270	162	84.6	36.4	29.3	44.0
Max	479	595	460	507	766	928	667	790	448	127	257	484
(WY)	(1982)	(1986)	(1968)	(1974)	(1976)	(1982)	(2009)	(1956)	(1996)	(1992)	(2009)	(1985)
Min	3.71	7.12	5.63	5.55	8.77	29.6	72.6	25.9	7.08	3.44	2.14	3.12
(WY)	(1964)	(1964)	(1959)	(1961)	(1963)	(1964)	(1963)	(1958)	(1988)	(1955)	(1955)	(1963)

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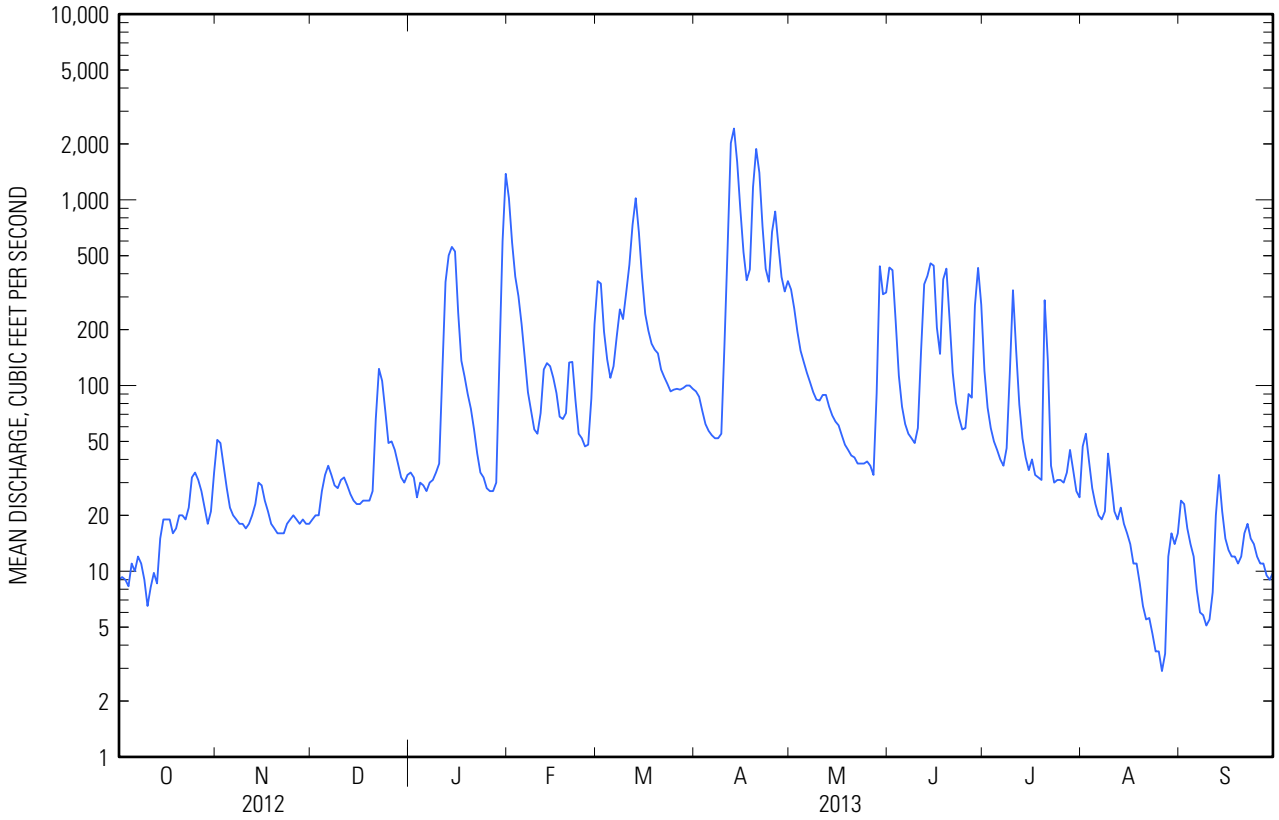
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1947 - 2013	
Annual total	33,211.8		51,660.7			
Annual mean	90.7		142		135	
Highest annual mean					289	2009
Lowest annual mean					25.4	1964
Highest daily mean	872	May 5	2,420	Apr 13	6,200	May 24, 2004
Lowest daily mean	2.4	Jul 2	2.9	Aug 26	0.09	Jul 7, 1988
Annual seven-day minimum	4.7	Jun 26	4.2	Aug 21	0.10	Jul 3, 1988
Maximum peak flow			2,590	Apr 13	6,830	May 24, 2004
Maximum peak stage			14.77	Apr 13	20.34	May 24, 2004
Instantaneous low flow			2.1	Aug 27	0.08	Jul 4, 1988[a]
Annual runoff (cfsm)	0.456		0.711		0.680	
Annual runoff (inches)	6.21		9.66		9.24	
10 percent exceeds	252		383		332	
50 percent exceeds	32		43		45	
90 percent exceeds	9.0		12		7.8	

[a] Also occurred part of each day July 5-10, 14, 15, 1988.