Water-Data Report 2013

04108600 RABBIT RIVER NEAR HOPKINS, MI

Southeastern Lake Michigan Basin
Kalamazoo Subbasin

LOCATION.--Lat 42°38′32″, long 85°43′19″ referenced to North American Datum of 1927, in SE ¼ sec.16, T.3 N., R.12 W., Allegan County, MI, Hydrologic Unit 04050003, on left bank at downstream side of bridge on 18th Street, 2.5 mi northeast of Hopkins.

DRAINAGE AREA.--71.4 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 700 ft above NGVD 29, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are fair. At times, low flow is affected by pumpage for irrigation. 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 04108600, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/04108600.2013.pdf

04108600 RABBIT RIVER NEAR HOPKINS, MI—Continued

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

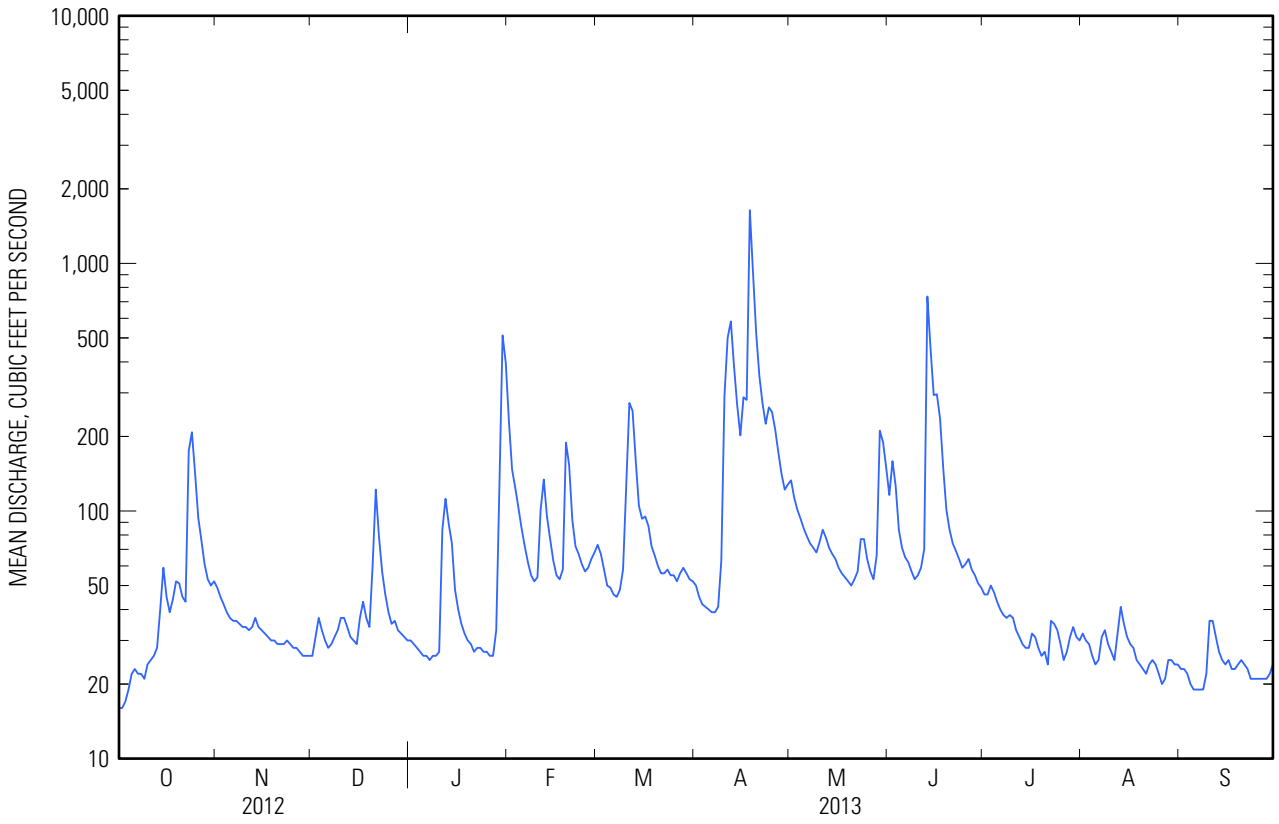
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16	49	26	30	230	73	50	133	116	46	32	23
2	16	45	31	e29	147	67	45	113	159	46	30	23
3	17	42	37	e28	e124	58	42	101	126	50	29	22
4	19	39	33	e27	e103	50	41	93	84	47	26	20
5	22	37	30	e26	e85	49	40	85	71	43	24	19
6	23	36	28	26	e72	46	39	79	65	40	25	19
7	22	36	29	25	e62	45	39	74	62	38	31	19
8	22	35	31	26	e55	48	41	71	57	37	33	19
9	21	34	33	26	e52	58	63	68	53	38	29	22
10	24	34	37	27	e54	126	294	75	55	37	27	36
11	25	33	37	84	e101	273	501	84	59	33	25	36
12	26	34	34	112	e134	254	583	78	70	31	32	31
13	28	37	31	89	e95	160	385	71	735	29	41	27
14	40	34	30	e74	e77	105	268	67	453	28	35	25
15	59	33	29	e48	e63	93	202	64	294	28	31	24
16	45	32	37	e40	e55	95	288	59	296	32	29	25
17	39	31	43	e35	e53	87	281	56	236	31	28	23
18	44	30	37	e32	e58	72	1,640	54	149	28	25	23
19	52	30	34	e30	189	66	916	52	101	26	24	24
20	51	29	60	e29	153	60	522	50	84	27	23	25
21	45	29	122	e27	92	56	351	53	74	24	22	24
22	43	29	79	e28	72	56	272	57	69	36	24	23
23	175	30	57	e28	67	58	225	77	64	35	25	21
24	208	29	46	e27	61	55	262	77	59	33	24	21
25	142	28	39	e27	57	55	251	64	61	29	22	21
26	94	28	35	e26	59	52	213	57	64	25	20	21
27	76	27	36	e26	64	56	172	53	58	27	21	21
28	61	26	33	e33	68	59	141	66	55	31	25	21
29	53	26	32	e126	---	56	122	211	51	34	25	22
30	50	26	31	512	---	53	128	190	49	31	24	24
31	52	---	30	397	---	52	---	150	---	30	24	---
Total	1,610	988	1,227	2,100	2,502	2,493	8,417	2,582	3,929	1,050	835	704
Mean	51.9	32.9	39.6	67.7	89.4	80.4	281	83.3	131	33.9	26.9	23.5
Max	208	49	122	512	230	273	1,640	211	735	50	41	36
Min	16	26	26	25	52	45	39	50	49	24	20	19
Cfsm	0.73	0.46	0.55	0.95	1.25	1.13	3.93	1.17	1.83	0.47	0.38	0.33
In.	0.84	0.51	0.64	1.09	1.30	1.30	4.39	1.35	2.05	0.55	0.44	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	42.5	56.9	70.2	69.1	79.4	109	98.9	71.3	65.7	34.8	28.7	34.1
Max	119	171	184	146	197	227	281	163	284	99.0	86.8	141
(WY)	(1987)	(1991)	(2009)	(1993)	(2009)	(1979)	(2013)	(2011)	(2010)	(1986)	(1994)	(2008)
Min	12.9	14.5	21.7	19.8	22.1	32.0	42.2	25.1	16.4	13.6	12.5	10.1
(WY)	(2006)	(2000)	(1999)	(1970)	(2003)	(2000)	(2004)	(1977)	(1987)	(1987)	(1970)	(1999)

04108600 RABBIT RIVER NEAR HOPKINS, MI—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1966 - 2013	
Annual total	19,055		28,437			
Annual mean	52.1		77.9		63.3	
Highest annual mean					105	2009
Lowest annual mean					32.5	1977
Highest daily mean	334	Mar 1	1,640	Apr 18	2,320	Jun 21, 1997
Lowest daily mean	13	Aug 8	16	Oct 1	7.9	Sep 12, 1999
Annual seven-day minimum	15	Jul 11	19	Oct 1	8.5	Sep 9, 1999
Maximum peak flow			2,240	Apr 18	[a]3,740	Jun 21, 1997
Maximum peak stage			10.04	Apr 18	11.11	Jun 21, 1997
Annual runoff (cfsm)	0.729		1.09		0.886	
Annual runoff (inches)	9.93		14.82		12.04	
10 percent exceeds	102		151		118	
50 percent exceeds	38		42		43	
90 percent exceeds	17		24		19	

[a] From rating curve extended above 1,200 ft³/s.