Water-Data Report 2013

05413500 GRANT RIVER AT BURTON, WI

Upper Mississippi-Maquoketa-Plum Basin
Grant-Little Maquoketa Subbasin

LOCATION.--Lat 42°43′13″, long 90°49′09″ referenced to North American Datum of 1983, in SW ¼ NW ¼ sec.23, T.3 N., R.4 W., Grant County, WI, Hydrologic Unit 07060003, on right bank at downstream side of highway bridge at Burton, 5.9 mi northwest of Potosi and 9.5 mi upstream from mouth.

Gage address: 5980 CTH "N"

DRAINAGE AREA.--269 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1934 to current year. Published as "near Burton" October 1934 to September 1947. Records published for both sites March to September 1947. October 1934, monthly discharge published in WSP 1308.

REVISED RECORDS.--WSP 825: 1935-36. WSP 1308: 1935-37(M), 1941(M), 1945-46(M), 1949(M). WSP 1728: 1942(M). WDR WI-76-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 606.25 ft NAVD of 1988. Oct. 17, 1934, to Sept. 30, 1947, nonrecording gage at site 6 mi upstream at datum 33.18 ft higher. Mar. 18, 1947, to July 27, 1949, nonrecording gage at present site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Gage-height telemeter at station.

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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	111	104	111	e89	e230	e120	202	237	319	392	211	176
2	112	104	112	e95	e190	e120	167	216	277	363	209	172
3	111	103	111	e96	e170	e120	152	241	249	343	205	169
4	112	103	110	e97	e160	e110	144	395	237	329	200	169
5	110	104	107	e98	e150	e110	144	306	243	315	234	168
6	111	108	106	e99	e140	e110	136	275	253	304	277	166
7	112	114	109	e100	e140	e110	142	257	233	294	218	166
8	112	109	107	e100	e130	e100	142	244	219	507	205	165
9	114	106	113	e105	e130	e160	204	238	214	365	201	166
10	119	106	120	e110	e200	e3,000	546	272	253	338	198	165
11	116	120	108	e120	e1,100	e4,000	469	245	218	290	195	169
12	113	185	107	e140	e810	531	388	224	211	276	196	170
13	127	138	107	e120	e590	279	294	216	276	267	195	162
14	181	122	108	e110	e500	283	252	214	217	262	190	161
15	270	118	122	e105	e360	197	351	210	204	254	189	173
16	137	115	157	e100	e270	391	306	199	203	249	188	178
17	121	113	133	e99	e200	339	350	194	191	244	186	166
18	120	111	123	e97	e170	265	1,110	191	191	240	184	167
19	116	111	119	e94	e160	158	692	190	190	238	184	182
20	110	111	e120	e91	e150	134	494	237	186	236	184	350
21	105	110	e83	e90	e140	147	405	218	259	232	183	206
22	110	111	e130	e90	e140	133	361	197	2,340	232	194	179
23	123	110	e120	e90	e130	217	333	196	2,140	227	204	173
24	114	107	e110	e91	e130	371	305	184	762	220	185	169
25	111	111	e100	e91	e130	167	284	180	4,320	219	181	167
26	112	111	e99	e92	e130	140	267	184	1,240	257	178	166
27	106	104	e97	e93	e130	264	255	203	711	227	178	164
28	103	115	e96	e95	e120	448	247	227	547	219	177	164
29	103	113	e95	e1,300	---	379	243	235	484	216	176	173
30	104	111	e95	e610	---	327	256	724	438	212	175	167
31	105	---	e93	e300	---	262	---	427	---	214	176	---
Total	3,731	3,408	3,428	5,007	7,000	13,492	9,641	7,776	17,825	8,581	6,056	5,288
Mean	120	114	111	162	250	435	321	251	594	277	195	176
Max	270	185	157	1,300	1,100	4,000	1,110	724	4,320	507	277	350
Min	103	103	83	89	120	100	136	180	186	212	175	161
Cfsm	0.45	0.42	0.41	0.60	0.93	1.62	1.19	0.93	2.21	1.03	0.73	0.66
In.	0.52	0.47	0.47	0.69	0.97	1.87	1.33	1.08	2.47	1.19	0.84	0.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1935 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	130	136	119	138	204	315	202	184	231	189	161	142
Max	438	626	350	467	668	1,057	1,010	583	1,248	808	502	382
(WY)	(2008)	(1962)	(1973)	(1974)	(1948)	(1959)	(2008)	(2008)	(2008)	(1993)	(1943)	(2010)
Min	45.8	41.3	37.7	33.4	36.1	55.3	66.0	46.8	50.6	35.8	41.6	42.2
(WY)	(1935)	(1938)	(1959)	(1959)	(1959)	(1958)	(1957)	(1958)	(1936)	(1936)	(1937)	(1958)

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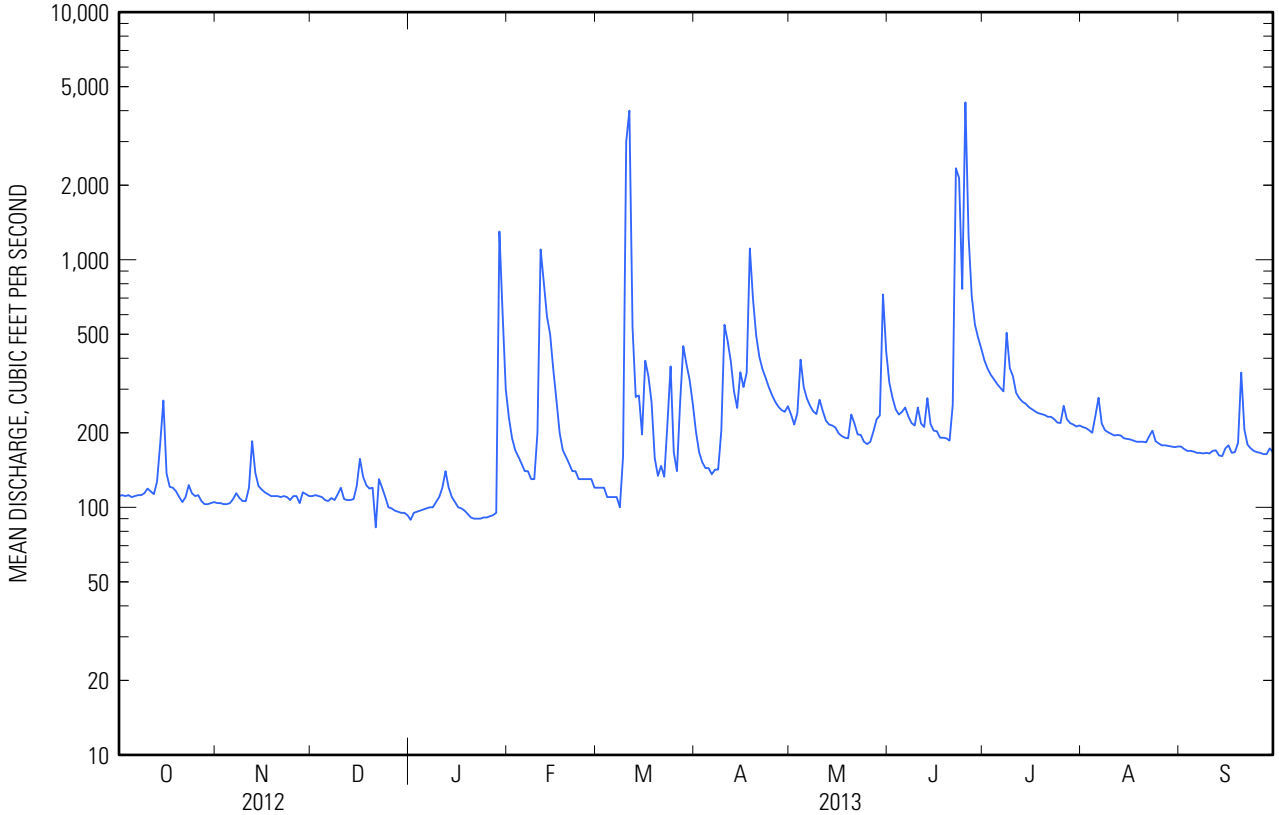
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1935 - 2013	
Annual total	54,044		91,233			
Annual mean	148		250		179	
Highest annual mean					503	2008
Lowest annual mean					59.3	1958
Highest daily mean	352	May 26	4,320	Jun 25	10,700	Jun 13, 1947
Lowest daily mean	[a]83	Dec 21	[a]83	Dec 21	30	Aug 5, 1936[b]
Annual seven-day minimum	96	Dec 25	91	Jan 20	31	Aug 3, 1936[c]
Maximum peak flow			[d]8,180	Jun 25	[e]25,000	Jul 16, 1950
Maximum peak stage			[f]20.76	Mar 11	24.82	Jul 16, 1950
Instantaneous low flow					[a]21	Mar 4, 1954
Annual runoff (cfsm)	0.549		0.929		0.666	
Annual runoff (inches)	7.47		12.62		9.05	
10 percent exceeds	193		362		283	
50 percent exceeds	136		176		125	
90 percent exceeds	110		104		63	

[a] Result of freezeup.
[b] Also occurred additional days, ice affected.
[c] Also occurred Jan. 4, 1959, ice affected.
[d] Gage height, 19.99 ft.
[e] From rating curve extended above 18,000 ft³/s on basis of slope-area measurement of peak flow.
[f] Ice jam.