05368000 HAY RIVER AT WHEELER, WI

Chippewa Basin
Red Cedar Subbasin

LOCATION.--Lat 45°02′52″, long 91°54′39″ referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.25, T.30 N., R.13 W., Dunn County, WI, Hydrologic Unit 07050007, on right bank 25 ft downstream from highway bridge in Wheeler, 1.8 mi upstream from Otter Creek, and 2.4 mi downstream from South Fork Hay River.

DRAINAGE AREA.--418 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1950 to current year.

REVISED RECORDS.--WDR WI-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 889.30 ft above NGVD of 1929. Prior to Mar. 25, 1951, nonrecording gage.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum stage since 1915, 16.6 ft April 1934, from floodmarks.

05368000 HAY RIVER AT WHEELER, WI—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	316	284	e205	e205	e175	e174	773	502	369	307	210	171
2	382	276	e204	e202	e175	e174	539	499	327	297	206	171
3	448	271	e204	e203	e175	e175	462	716	305	286	203	174
4	470	267	e203	e203	e175	e176	696	1,010	295	278	203	173
5	464	266	e203	e206	e175	e176	1,120	795	292	273	204	172
6	932	262	e203	e211	e175	e176	1,360	638	647	267	200	171
7	887	259	e201	e210	e175	e177	1,410	552	1,630	329	200	170
8	557	257	e200	e212	e176	e181	1,370	502	991	289	199	171
9	724	255	e200	e216	e175	e185	906	465	661	261	196	171
10	700	255	e200	215	e172	e189	701	437	551	252	192	169
11	484	256	e200	212	e172	e195	793	431	467	259	188	172
12	414	255	e200	209	e172	e204	1,120	425	667	269	188	185
13	374	253	e200	206	e170	e211	975	408	1,920	263	194	191
14	348	251	e201	194	e169	216	750	394	2,290	250	194	195
15	336	247	e201	e178	e167	227	853	383	1,010	244	197	193
16	344	244	e201	e176	e167	232	979	372	691	247	193	186
17	380	241	e201	e176	e167	244	895	364	577	258	188	181
18	416	237	e202	e177	e167	238	712	355	514	250	182	178
19	718	237	e204	e176	e169	225	619	346	470	248	179	177
20	763	235	e206	e174	e168	252	639	343	438	384	176	175
21	590	232	e210	e174	e168	298	584	335	417	330	176	173
22	478	230	e211	e175	e168	281	554	327	395	265	176	172
23	415	227	e210	e176	e168	255	641	319	377	248	176	172
24	379	224	e204	e175	e168	244	596	310	362	239	173	182
25	356	227	e218	e175	e168	240	834	306	349	234	171	195
26	340	225	e219	e176	e170	246	1,230	366	336	232	169	186
27	326	221	e223	e177	e174	344	962	395	328	228	169	182
28	313	e220	e224	e176	e174	401	724	335	352	224	195	183
29	305	e205	e222	e176	e174	411	607	311	347	220	198	186
30	299	e205	e211	e175	---	554	541	340	320	216	180	187
31	294	---	e206	e175	---	815	---	412	---	212	174	---
Total	14,552	7,324	6,397	5,891	4,968	8,116	24,945	13,693	18,695	8,159	5,849	5,364
Mean	469	244	206	190	171	262	832	442	623	263	189	179
Max	932	284	224	216	176	815	1,410	1,010	2,290	384	210	195
Min	294	205	200	174	167	174	462	306	292	212	169	169
Cfsm	1.12	0.58	0.49	0.45	0.41	0.63	1.99	1.06	1.49	0.63	0.45	0.43
In.	1.30	0.65	0.57	0.52	0.44	0.72	2.22	1.22	1.66	0.73	0.52	0.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	272	263	229	205	229	486	641	372	353	273	265	279
Max	637	704	470	412	657	1,021	2,054	792	778	667	568	762
(WY)	(2003)	(1971)	(1966)	(1981)	(1981)	(1983)	(1965)	(2003)	(1993)	(1979)	(2001)	(1986)
Min	139	138	122	97.2	85.2	155	166	153	153	135	126	141
(WY)	(1959)	(1959)	(1959)	(1959)	(1959)	(1956)	(1959)	(1958)	(1959)	(1964)	(1964)	(1958)

05368000 HAY RIVER AT WHEELER, WI—Continued

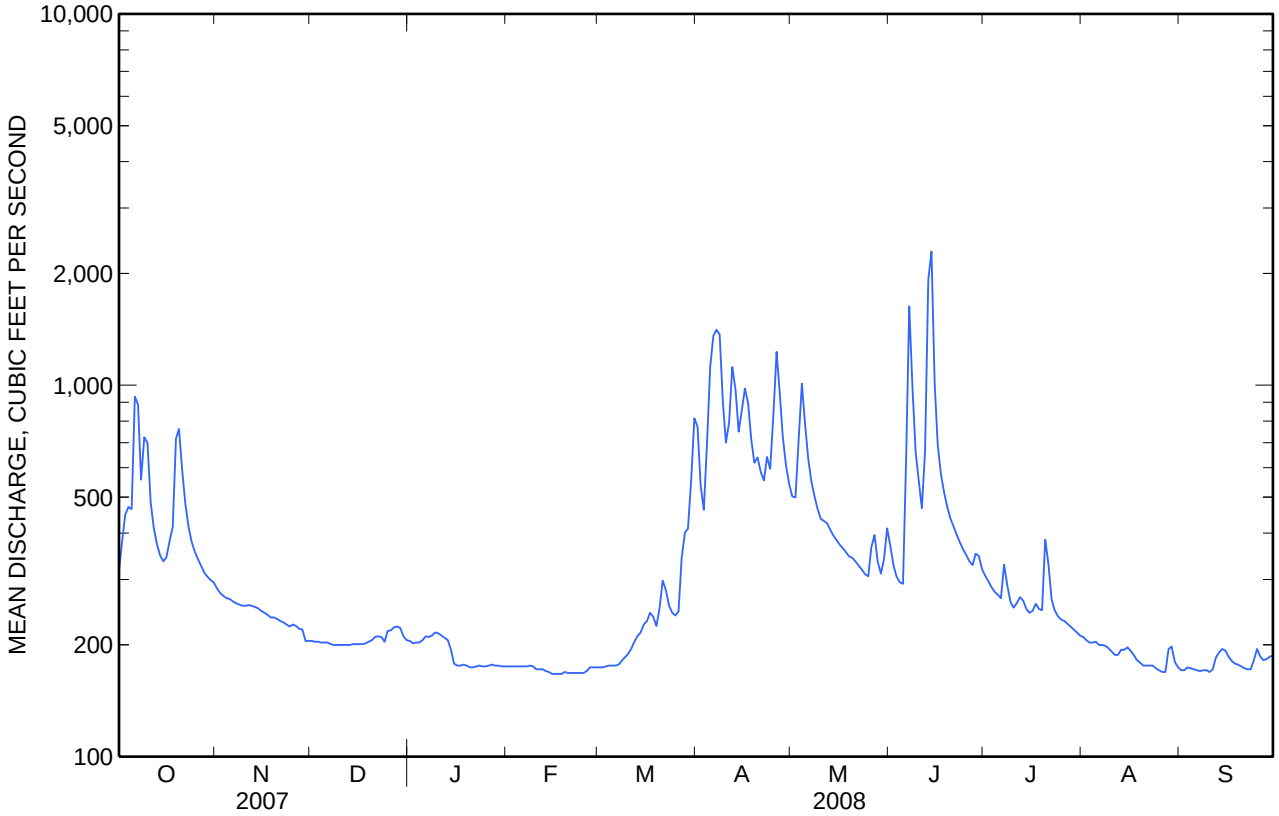
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1951 - 2008	
Annual total	99,787		123,953			
Annual mean	273		339		322	
Highest annual mean					433	2002
Lowest annual mean					152	1959
Highest daily mean	3,060	Mar 15	2,290	Jun 14	13,000	Mar 31, 1967
Lowest daily mean	150	Aug 10	[a]167	Feb 15[b]	[a]80	Feb 20, 1959
Annual seven-day minimum	153	Aug 7	[a]168	Feb 15	[a]82	Feb 16, 1959
Maximum peak flow			2,950	Jun 14	[c]13,600	Mar 31, 1967
Maximum peak stage			10.26	Jun 14	15.04	Mar 31, 1967
Instantaneous low flow			[d]		[e]55	Mar 13, 1954
Annual runoff (cfsm)	0.654		0.810		0.771	
Annual runoff (inches)	8.88		11.03		10.47	
10 percent exceeds	441		674		497	
50 percent exceeds	208		232		242	
90 percent exceeds	166		174		156	

[a] Ice affected.

[b] Also occurred additional days.

[c] From rating curve extended above 9,000 ft³/s.

[d] Unknown.

[e] Result of freezeup.