Water-Data Report 2013

05432500 PECATONICA RIVER AT DARLINGTON, WI

Rock Basin
Pecatonica Subbasin

LOCATION.--Lat 42°40′40″, long 90°07′07″ referenced to North American Datum of 1983, in SW ¼ NE ¼ sec.3, T.2 N., R.3 E., Lafayette County, WI, Hydrologic Unit 07090003, on right bank in Darlington, 0.3 mi downstream from Vinegar Branch, and 3.6 mi upstream from Otter Creek.

DRAINAGE AREA.--273 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--September 1939 to current year.

REVISED RECORDS.--WDR WI-76-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 802.14 ft above NAVD of 1988.Prior to Dec. 19, 1939, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. 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 05432500, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/05432500.2013.pdf

05432500 PECATONICA RIVER AT DARLINGTON, WI—Continued

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

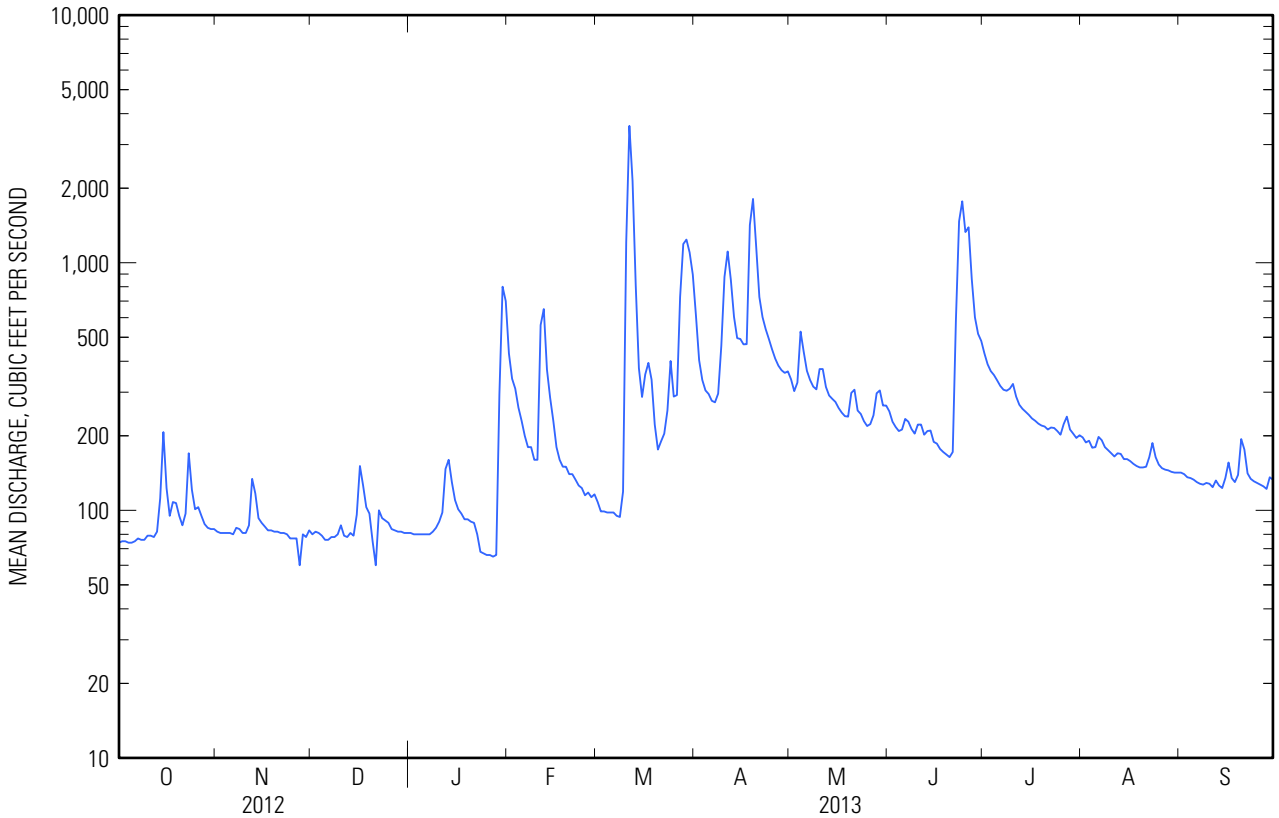
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	74	82	80	e81	e430	e108	611	338	251	430	197	142
2	75	81	82	e80	e340	e99	404	303	228	389	188	140
3	75	81	81	e80	e310	e99	336	328	217	365	191	136
4	74	81	79	e80	e260	e98	305	527	209	352	179	135
5	74	81	76	e80	e230	e98	295	436	212	335	180	133
6	75	80	76	e80	e200	98	277	366	234	318	198	130
7	77	85	78	e80	e180	95	273	336	228	307	192	128
8	76	84	78	e82	e180	94	296	316	213	304	180	127
9	76	81	80	e85	e160	119	462	308	204	310	175	129
10	79	81	87	90	e160	1,210	877	372	222	324	170	128
11	79	87	79	98	e560	3,570	1,110	372	222	288	165	124
12	78	134	78	147	e650	2,140	854	315	202	267	170	132
13	82	117	81	e160	e370	811	605	291	209	257	169	126
14	112	93	79	e130	e285	375	496	282	210	250	161	123
15	207	89	96	e110	e230	287	492	274	189	243	161	135
16	123	86	151	101	e180	354	468	259	186	235	158	156
17	95	83	126	97	e160	394	469	248	177	230	154	135
18	108	83	103	92	e150	337	1,420	240	172	224	151	130
19	107	82	97	e92	e150	222	1,810	239	168	220	149	139
20	95	82	75	e90	e140	176	1,160	298	164	218	149	194
21	87	81	60	e89	e140	190	727	307	172	212	150	176
22	97	81	e100	e80	133	204	603	253	586	216	164	141
23	170	80	e93	e68	126	253	539	245	1,470	215	187	134
24	121	77	e91	e67	123	401	492	229	1,770	209	164	131
25	101	77	e89	e66	115	288	447	219	1,330	202	153	129
26	103	77	e84	e66	118	292	410	223	1,390	223	148	127
27	95	60	e83	e65	113	727	384	242	860	239	146	125
28	88	80	e82	e66	116	1,190	368	297	602	212	145	122
29	85	78	e82	e295	---	1,240	359	305	516	204	143	136
30	84	83	e81	e800	---	1,100	364	265	483	196	142	133
31	84	---	e81	e700	---	896	---	265	---	201	142	---
Total	2,956	2,527	2,688	4,297	6,309	17,565	17,713	9,298	13,296	8,195	5,121	4,076
Mean	95.4	84.2	86.7	139	225	567	590	300	443	264	165	136
Max	207	134	151	800	650	3,570	1,810	527	1,770	430	198	194
Min	74	60	60	65	113	94	273	219	164	196	142	122
Cfsm	0.35	0.31	0.32	0.51	0.83	2.08	2.16	1.10	1.62	0.97	0.61	0.50
In.	0.40	0.34	0.37	0.59	0.86	2.39	2.41	1.27	1.81	1.12	0.70	0.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1939 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	138	145	128	156	219	369	264	221	267	209	165	148
Max	438	674	338	546	738	951	1,044	780	1,397	1,796	610	487
(WY)	(2008)	(1962)	(1983)	(1960)	(1953)	(1959)	(2008)	(1960)	(2008)	(1993)	(1993)	(1942)
Min	39.9	43.8	34.6	31.6	38.3	60.9	69.8	51.1	42.2	32.7	42.1	38.3
(WY)	(1965)	(1965)	(1959)	(1959)	(1959)	(1957)	(1957)	(1958)	(1965)	(1965)	(1958)	(1958)

05432500 PECATONICA RIVER AT DARLINGTON, WI—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1939 - 2013	
Annual total	48,743		94,041			
Annual mean	133		258		202	
Highest annual mean					534	1993
Lowest annual mean					66.5	1958
Highest daily mean	592	Mar 1	3,570	Mar 11	11,200	Jul 16, 1950
Lowest daily mean	60	Nov 27 [a]	60	Nov 27 [a]	24	Jul 25, 1965 [b]
Annual seven-day minimum	73	Sep 14	[c] 68	Jan 22	25	Jul 24, 1965
Maximum peak flow			3,910	Mar 11	[d] 22,000	Jul 16, 1950
Maximum peak stage			14.41	Mar 11	20.71	Jul 16, 1950
Instantaneous low flow			[e] 42	Nov 27 [f]	[e] 17	Nov 29, 1966
Annual runoff (cfsm)	0.488		0.944		0.741	
Annual runoff (inches)	6.64		12.81		10.07	
10 percent exceeds	217		487		353	
50 percent exceeds	110		161		133	
90 percent exceeds	76		80		60	

[a] Also occurred Dec. 21.
[b] Also occurred July 26, 27, 30, 1965.
[c] Ice affected.
[d] From rating curve extended above 11,000 ft³/s on basis of slope-area determination of peak flow.
[e] Result of freezup.
[f] Also occurred Dec. 21 (also the result of freezeup).