Water-Data Report 2012

05387440 Upper Iowa River at Bluffton, IA

Upper Mississippi-Maquoketa-Plum Basin
Upper Iowa Subbasin

LOCATION.--Lat 43°24′25″, long 91°53′56″ referenced to North American Datum of 1927, in NW ¼ NW ¼ SE ¼ sec.10, T.99 N., R.9 W., Winneshiek County, IA, Hydrologic Unit 07060002, on left bank 10 ft downstream from bridge on County Highway W20, 6.8 mi northwest of Decorah, 0.5 mi upstream from Silver Creek, and 73.9 mi upstream from mouth.

DRAINAGE AREA.--367 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Partial-record low-flow measurement site from September 1957 to July 1977; stage-only records from October 1999 to September 2002; discharge records from October 2002 to current year.

GAGE.--Water-stage recorder. Datum of gage is 945.50 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. U.S. Geological Survey data collection platform with satellite and telephone modem telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of June 21, 1954, discharge 13,600 ft^3/s, on basis of peak flow at Decorah gage, 11.0 mi downstream. Flood of March 27, 1961, discharge 20,200 ft^3/s.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 05387440, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/05387440.2012.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	116	110	76	e64	103	651	104	248	229	119	76	55
2	111	110	71	e45	104	527	103	330	223	114	75	55
3	112	112	79	e40	108	297	98	434	219	108	73	54
4	110	107	85	e54	103	202	94	521	219	103	100	55
5	108	105	78	e73	104	167	90	548	213	99	109	67
6	106	107	73	85	97	161	86	688	205	97	103	63
7	102	108	e61	78	82	179	85	970	206	94	92	58
8	97	108	e57	65	63	168	85	946	187	91	85	56
9	101	123	e46	74	e51	152	82	733	192	87	88	55
10	100	119	e41	73	e46	142	79	603	177	83	93	52
11	100	114	e49	e58	e35	135	78	518	173	82	113	51
12	102	111	e55	e30	e41	139	77	451	162	81	107	52
13	120	114	72	e29	e46	138	75	398	156	84	96	60
14	112	113	74	e35	e55	138	78	363	153	82	89	58
15	106	109	84	e44	e65	137	122	341	156	79	85	54
16	109	104	73	e45	76	131	139	316	151	78	81	53
17	107	103	e76	e47	73	126	137	295	151	77	75	54
18	107	94	e74	e45	74	121	137	277	148	96	71	54
19	102	94	e75	e45	68	118	152	261	144	134	72	52
20	104	91	e73	e39	71	121	411	250	139	131	69	50
21	106	90	77	e56	76	118	641	238	155	107	66	53
22	107	83	74	e83	78	128	494	228	150	e99	66	54
23	109	77	47	e88	84	132	392	219	150	92	65	52
24	113	77	e40	92	83	133	335	215	158	90	73	50
25	113	76	e45	92	71	127	298	222	155	89	64	50
26	113	78	e50	94	66	127	267	236	144	86	64	48
27	113	78	e62	94	82	121	241	235	139	82	64	48
28	112	76	71	91	80	112	226	230	133	81	63	47
29	110	75	73	92	751	107	219	231	127	83	60	48
30	115	73	75	93	---	109	236	229	123	84	58	48
31	112	---	75	99	---	106	---	235	---	80	57	---
Total	3,355	2,939	2,061	2,042	2,836	5,270	5,661	12,009	5,037	2,892	2,452	1,606
Mean	108	98.0	66.5	65.9	97.8	170	189	387	168	93.3	79.1	53.5
Max	120	123	85	99	751	651	641	970	229	134	113	67
Min	97	73	40	29	35	106	75	215	123	77	57	47
Ac-ft	6,650	5,830	4,090	4,050	5,630	10,450	11,230	23,820	9,990	5,740	4,860	3,190
Cfsm	0.29	0.27	0.18	0.18	0.27	0.46	0.51	1.06	0.46	0.25	0.22	0.15
In.	0.34	0.30	0.21	0.21	0.29	0.53	0.57	1.22	0.51	0.29	0.25	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	254	196	127	128	175	575	553	524	671	342	238	251
Max	922	431	237	255	404	1,445	1,319	989	2,260	685	726	726
(WY)	(2008)	(2010)	(2011)	(2011)	(2005)	(2011)	(2008)	(2004)	(2008)	(2004)	(2007)	(2010)
Min	47.4	52.0	46.0	42.4	47.8	86.5	92.8	287	168	93.3	66.5	44.5
(WY)	(2004)	(2004)	(2004)	(2003)	(2004)	(2003)	(2004)	(2007)	(2012)	(2012)	(2003)	(2003)

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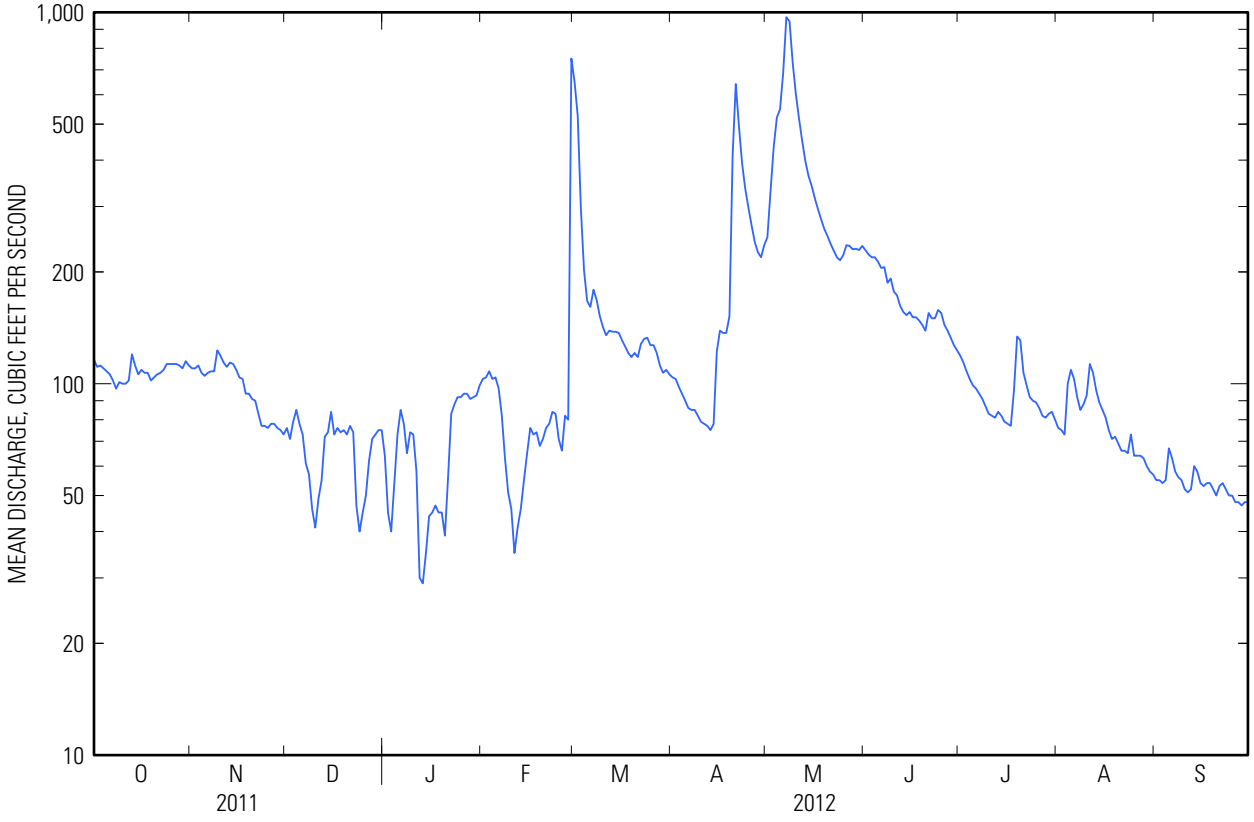
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 2003 - 2012	
Annual total	151,826		48,160			
Annual mean	416		132		336	
Highest annual mean					614	2008
Lowest annual mean					118	2003
Highest daily mean	5,330	Mar 24	970	May 7	13,800	Jun 9, 2008
Lowest daily mean	40	Dec 24	29	Jan 13	29	Dec 12, 2003
Annual seven-day minimum	54	Dec 7	39	Jan 12	36	Jan 17, 2003
Maximum peak flow			1,250	Feb 29	16,600	Jun 9, 2008
Maximum peak stage			5.89	Feb 29	15.49	Jun 9, 2008
Annual runoff (ac-ft)	301,100		95,530		243,800	
Annual runoff (cfsm)	1.13		0.359		0.917	
Annual runoff (inches)	15.39		4.88		12.46	
10 percent exceeds	829		235		721	
50 percent exceeds	206		96		181	
90 percent exceeds	79		53		61