Water-Data Report 2013

05453520 Iowa River below Coralville Dam near Coralville, IA

Iowa Basin
Middle Iowa Subbasin

LOCATION.--Lat 41°42'55.0", long 91°31'48.0" referenced to North American Datum of 1927, in SW ¼ SW ¼ SE ¼ sec.22, T.80 N., R.6 W., Johnson County, IA, Hydrologic Unit 07080208, on left bank 1,200 ft downstream from Coralville Dam control house, 4.3 mi northeast of Coralville Post Office, 2.3 mi upstream from Rapid Creek, and 80.6 mi upstream from mouth.

DRAINAGE AREA.--3,115 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Discharge records from October 1992 to current year.

GAGE.--Water-stage recorder. Datum of gage is 600.00 ft above National Geodetic Vertical Datum of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated by Coralville Lake (station 05453510), 1,200 ft upstream, since September 17, 1958. U.S. Geological Survey data collection platform with satellite telemetry 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 05453520, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/05453520.2013.pdf

05453520 Iowa River below Coralville Dam near Coralville, IA—Continued

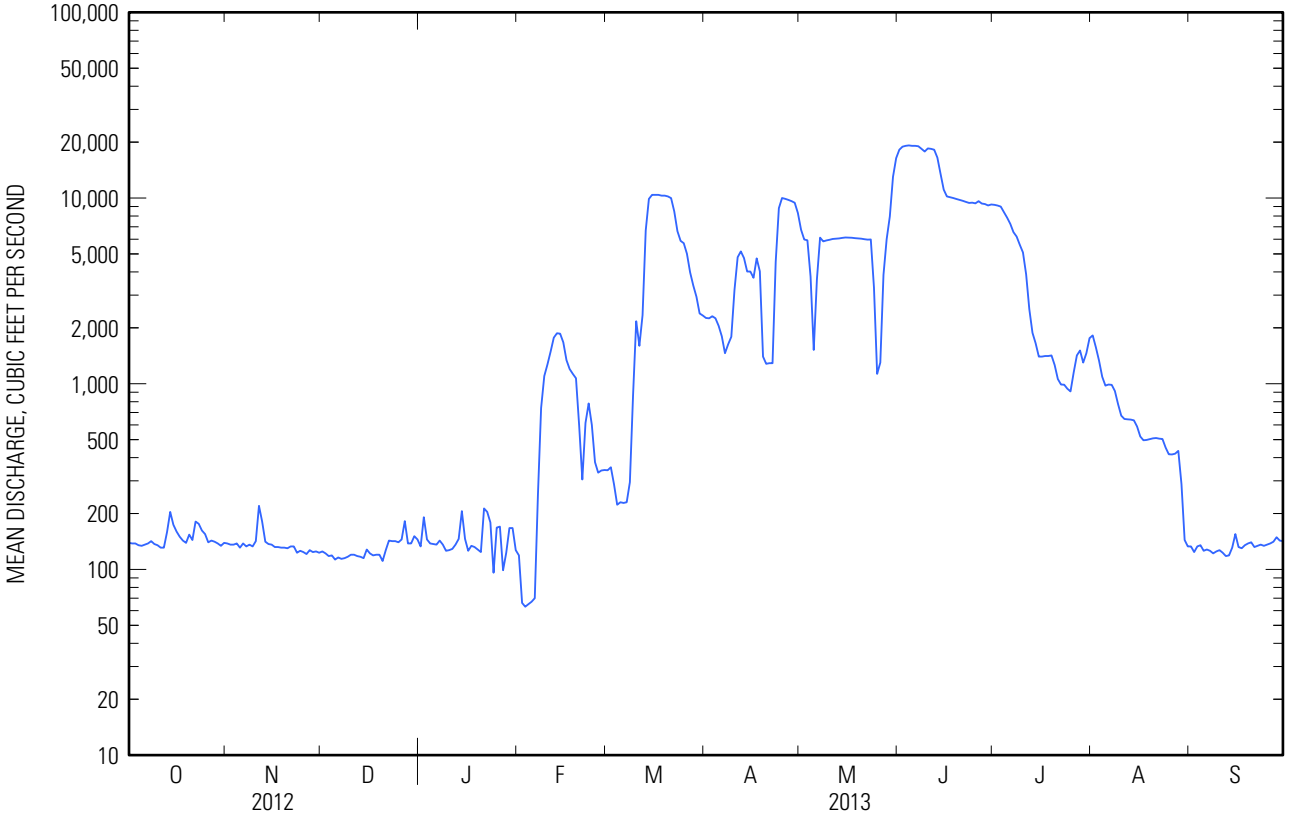
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	139	138	125	133	119	342	2,260	6,750	18,200	9,190	1,820	133
2	138	136	122	e191	66	355	2,250	5,980	18,900	9,110	1,570	124
3	138	136	118	145	63	287	2,310	5,920	19,100	8,990	1,330	133
4	135	138	e119	138	65	223	2,250	3,770	19,200	8,390	1,090	135
5	134	131	113	137	67	230	2,050	1,520	19,100	7,840	977	126
6	136	138	116	136	70	228	1,800	3,650	19,100	7,260	990	128
7	138	133	114	143	253	230	1,460	6,120	19,000	6,550	986	126
8	142	136	115	136	740	295	1,630	5,840	18,400	6,200	913	122
9	137	133	117	126	1,100	864	1,790	5,910	17,800	5,600	776	125
10	135	142	120	127	1,270	2,170	3,200	5,960	18,500	5,090	673	127
11	131	220	120	129	1,490	1,600	4,800	6,020	18,400	3,880	646	123
12	131	181	118	136	1,770	2,340	5,160	6,040	18,200	2,520	643	118
13	159	141	117	146	1,870	6,690	4,750	6,060	16,500	1,880	641	119
14	204	137	115	e206	1,860	9,890	4,020	6,100	13,500	1,650	635	131
15	174	136	128	146	1,670	10,400	4,020	6,130	11,100	1,400	588	155
16	160	132	122	126	1,340	10,400	3,720	6,120	10,200	1,400	520	132
17	150	132	119	134	1,200	10,400	4,730	6,110	10,100	1,410	496	130
18	143	e131	120	132	1,130	10,300	4,030	6,080	10,000	1,410	498	135
19	139	131	120	128	1,070	10,300	1,400	6,060	9,880	1,420	503	138
20	154	130	111	124	596	10,200	1,280	6,040	9,770	1,260	508	140
21	144	133	127	213	305	9,990	1,290	6,000	9,660	1,060	510	132
22	181	133	143	e204	615	8,470	1,290	5,970	9,530	990	506	134
23	176	123	142	e179	783	6,630	4,530	5,980	9,410	988	504	136
24	162	126	142	96	600	5,880	8,820	3,290	9,440	940	453	134
25	155	124	140	168	378	5,710	10,000	1,130	9,360	909	417	136
26	140	121	145	e170	332	5,010	9,900	1,300	9,620	1,150	416	138
27	143	127	182	99	341	3,980	9,770	3,860	9,340	1,420	420	141
28	141	124	138	123	343	3,380	9,620	6,000	9,280	1,510	435	149
29	138	125	138	167	---	2,940	9,430	7,960	9,120	1,300	288	143
30	134	123	151	167	---	2,390	8,300	13,000	9,230	1,460	144	142
31	139	---	145	127	---	2,330	---	16,400	---	1,760	133	---
Total	4,570	4,091	3,962	4,532	21,506	144,454	131,860	183,070	408,940	105,937	21,029	3,985
Mean	147	136	128	146	768	4,660	4,395	5,905	13,630	3,417	678	133
Max	204	220	182	213	1,870	10,400	10,000	16,400	19,200	9,190	1,820	155
Min	131	121	111	96	63	223	1,280	1,130	9,120	909	133	118
Ac-ft	9,060	8,110	7,860	8,990	42,660	286,500	261,500	363,100	811,100	210,100	41,710	7,900
Cfsm	0.05	0.04	0.04	0.05	0.25	1.50	1.41	1.90	4.38	1.10	0.22	0.04
In.	0.05	0.05	0.05	0.05	0.26	1.73	1.57	2.19	4.88	1.27	0.25	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,207	1,342	1,414	963	1,690	3,399	3,742	4,439	5,544	4,710	2,494	1,569
Max	4,629	5,799	5,144	3,039	3,767	6,587	8,696	9,347	21,380	20,610	18,500	13,050
(WY)	(2008)	(2010)	(2010)	(2010)	(2009)	(1993)	(2010)	(1993)	(2008)	(1993)	(1993)	(1993)
Min	147	136	128	146	346	426	445	412	748	296	182	133
(WY)	(2013)	(2013)	(2013)	(2013)	(2003)	(2000)	(2000)	(2000)	(2012)	(2012)	(2012)	(2013)

05453520 Iowa River below Coralville Dam near Coralville, IA—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1993 - 2013	
Annual total	230,591		1,037,936			
Annual mean	630		2,844		2,713	
Highest annual mean					7,910	1993
Lowest annual mean					743	2012
Highest daily mean	3,400	May 7	19,200	Jun 4	39,400	Jun 15, 2008
Lowest daily mean	111	Dec 20	63	Feb 3	63	Feb 3, 2013
Annual seven-day minimum	116	Dec 3	82	Jan 31	82	Jan 31, 2013
Maximum peak flow			19,400	Jun 4	39,900	Jun 15, 2008
Maximum peak stage			60.51	Jun 4	68.09	Jun 15, 2008
Annual runoff (ac-ft)	457,400		2,059,000		1,966,000	
Annual runoff (cfsm)	0.202		0.913		0.871	
Annual runoff (inches)	2.75		12.40		11.84	
10 percent exceeds	1,230		9,570		6,250	
50 percent exceeds	382		498		1,430	
90 percent exceeds	131		124		274