

Water-Data Report 2012

05420460 Beaver Slough at 3rd Street at Clinton, IA

Upper Mississippi-Skunk-Wapsipinicon Basin
Copperas-Duck Subbasin

LOCATION.--Lat 41°49'38", long 90°11'25" referenced to North American Datum of 1927, in SW ¼ SE ¼ NW ¼ sec.18, T.81 N., R.7 E., Clinton County, IA, Hydrologic Unit 07080101, at downstream end of ADM repair dock at end of 3rd Street, 4.8 mi upstream from Clinton gage (station 05420500), 5.9 mi downstream from Lock and Dam 13, 10.3 mi upstream from Wapsipinicon River, and 516.6 mi upstream from Ohio River.

DRAINAGE AREA.--85,600 mi².

SURFACE-WATER RECORDS

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

GAGE.--Water-stage recorder. Datum of gage is 562.68 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Minor flow regulation caused by navigation dams. U.S. Geological Survey data collection platform with satellite telemetry at station.

05420460 Beaver Slough at 3rd Street at Clinton, IA—Continued

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	8,160	7,100	8,210	8,260	7,390	7,750	13,400	13,300	16,800	23,800	7,970	4,400
2	8,230	7,370	8,110	7,900	7,370	9,860	13,000	13,500	17,400	24,000	7,700	4,050
3	8,330	8,140	8,160	7,490	7,130	12,000	12,000	13,600	18,600	24,000	7,700	3,880
4	8,280	8,330	8,860	6,550	7,100	12,600	9,480	13,300	20,000	24,000	7,730	4,200
5	8,300	7,700	9,000	6,100	7,220	12,600	9,050	13,300	21,700	23,800	7,700	4,420
6	8,350	7,660	8,690	5,810	7,490	11,600	10,000	13,500	22,800	23,000	7,680	4,850
7	8,090	7,420	8,400	5,950	7,300	10,100	10,500	14,300	23,200	23,000	7,610	5,150
8	7,540	7,920	7,460	5,930	7,460	8,810	10,300	16,700	24,500	21,900	6,430	5,200
9	7,080	8,620	7,010	6,240	7,510	8,280	10,100	18,700	25,200	20,000	5,710	4,280
10	6,500	8,710	6,460	6,460	7,010	8,470	9,600	19,300	25,400	18,200	5,330	3,720
11	6,380	8,570	5,470	6,840	6,480	9,720	8,830	19,800	25,900	16,600	5,400	3,930
12	6,650	8,640	4,700	7,270	5,810	11,600	8,690	21,000	25,900	15,400	5,180	3,640
13	7,460	8,950	5,660	6,770	6,170	12,700	8,710	21,600	25,400	14,700	5,020	2,630
14	7,970	8,690	7,150	5,450	6,220	12,700	8,400	23,600	24,500	14,100	5,160	2,530
15	8,090	8,640	8,950	5,330	5,950	12,600	8,420	23,500	24,000	13,400	5,230	4,060
16	7,970	7,420	9,550	5,420	6,000	12,700	9,120	23,500	22,700	12,900	5,350	4,860
17	8,470	7,580	9,600	5,740	6,020	12,900	9,220	23,600	21,500	12,200	5,570	4,910
18	8,300	7,870	9,790	e6,050	5,880	14,400	9,580	23,300	19,400	11,600	5,570	4,860
19	8,300	7,730	9,790	e5,710	6,720	16,200	10,100	22,600	18,600	11,200	5,590	4,760
20	8,160	7,560	9,050	e5,590	7,300	17,300	11,800	21,500	18,500	10,800	5,570	3,250
21	7,920	7,540	8,830	e5,520	7,680	18,100	12,900	20,600	18,600	10,300	5,470	2,180
22	7,580	7,490	8,780	e5,330	7,220	18,500	13,800	18,800	19,100	9,670	5,400	2,840
23	7,390	7,820	8,500	e5,400	6,960	19,300	14,400	15,900	19,200	9,410	5,400	3,920
24	7,270	7,580	8,380	e5,570	7,340	19,400	14,300	13,200	19,800	9,290	4,970	4,460
25	7,320	7,060	8,330	e5,760	7,060	19,200	14,200	12,800	20,800	9,670	4,560	4,620
26	7,100	6,940	7,850	e6,120	6,910	17,900	14,600	12,700	21,600	9,790	4,560	4,720
27	6,980	6,960	7,510	e6,500	7,320	16,500	14,800	13,100	21,700	10,100	4,920	4,700
28	6,890	7,150	6,860	e7,100	6,860	15,800	14,100	12,900	22,200	9,980	4,870	4,640
29	6,790	7,560	6,770	e7,370	7,540	14,400	13,600	13,800	23,100	9,220	4,920	4,210
30	6,840	8,230	7,080	7,850	---	13,800	13,400	15,100	23,500	8,620	4,970	3,510
31	6,910	---	7,460	7,700	---	13,700	---	15,800	---	8,400	5,080	---
Total	235,600	234,950	246,420	197,080	200,420	421,490	340,400	538,200	651,600	463,050	180,320	123,380
Mean	7,600	7,832	7,949	6,357	6,911	13,600	11,350	17,360	21,720	14,940	5,817	4,113
Max	8,470	8,950	9,790	8,260	7,680	19,400	14,800	23,600	25,900	24,000	7,970	5,200
Min	6,380	6,940	4,700	5,330	5,810	7,750	8,400	12,700	16,800	8,400	4,560	2,180
Ac-ft	467,300	466,000	488,800	390,900	397,500	836,000	675,200	1,068,000	1,292,000	918,500	357,700	244,700
Cfsm	0.09	0.09	0.09	0.07	0.08	0.16	0.13	0.20	0.25	0.17	0.07	0.05
In.	0.10	0.10	0.11	0.09	0.09	0.18	0.15	0.23	0.28	0.20	0.08	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2012, BY WATER YEAR (WY)

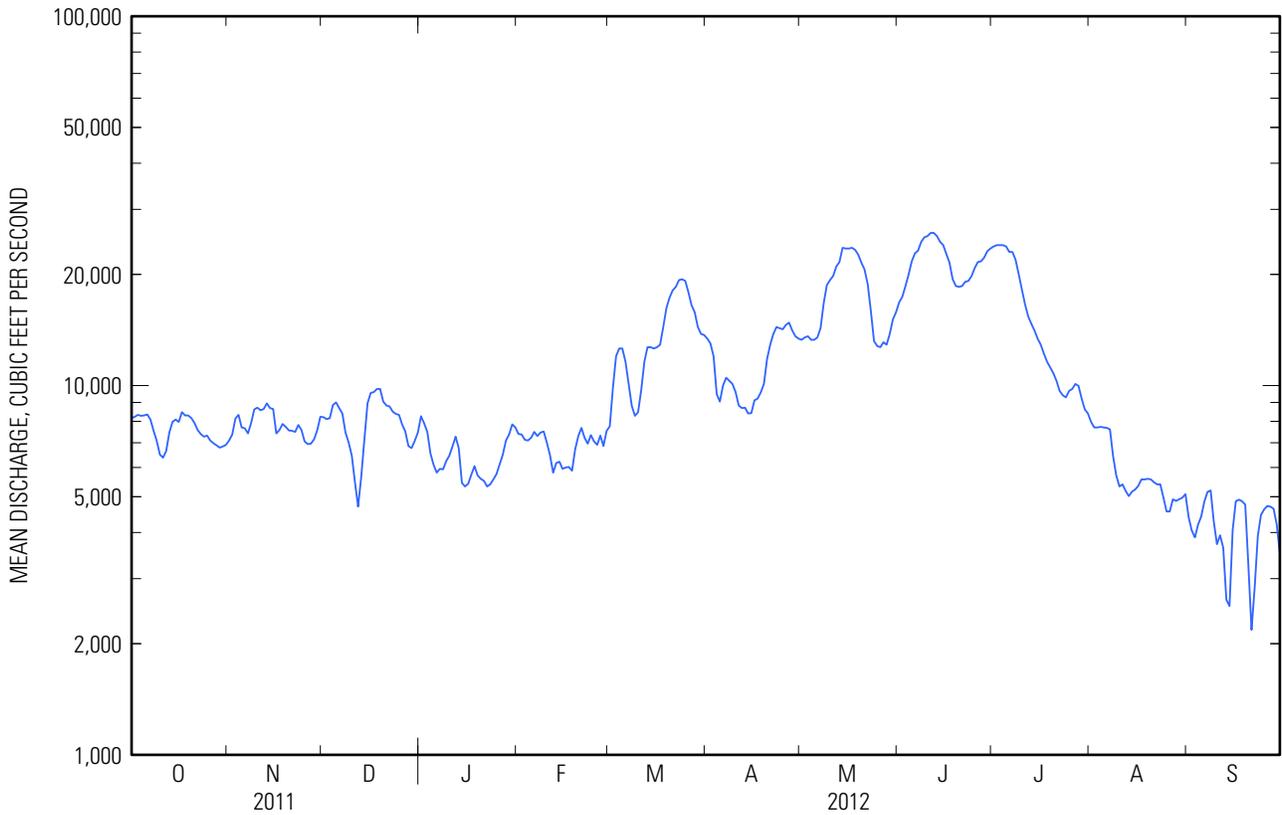
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	11,370	11,200	8,755	8,479	9,261	14,340	26,110	23,190	19,960	16,700	11,810	9,588
Max	29,300	20,530	12,250	12,780	14,510	20,680	44,640	42,580	35,240	49,690	28,330	21,640
(WY)	(2011)	(2011)	(2011)	(1995)	(1994)	(2011)	(2011)	(2001)	(1993)	(1993)	(1993)	(1993)
Min	4,486	5,638	4,751	3,771	5,016	9,474	10,350	11,590	10,450	5,599	5,371	4,113
(WY)	(2004)	(2007)	(2004)	(2004)	(2004)	(2001)	(2000)	(2000)	(2009)	(2007)	(2003)	(2012)

05420460 Beaver Slough at 3rd Street at Clinton, IA—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1993 - 2012	
Annual total	6,711,140		3,832,910			
Annual mean	18,390		10,470		14,240	
Highest annual mean					23,060	1993
Lowest annual mean					9,895	2009
Highest daily mean	54,700	Apr 21	25,900	Jun 11 ^a	61,600	Apr 23, 2001
Lowest daily mean	4,700	Dec 12	2,180	Sep 21	2,180	Sep 21, 2012
Annual seven-day minimum	6,270	Dec 8	3,540	Sep 9	3,250	Sep 5, 2003
Maximum peak flow			26,400	Jun 12	62,100	Apr 23, 2001
Maximum peak stage			16.42	Jun 12	26.66	Apr 23, 2001
Annual runoff (ac-ft)	13,310,000		7,603,000		10,320,000	
Annual runoff (cfsm)	0.215		0.122		0.166	
Annual runoff (inches)	2.92		1.67		2.26	
10 percent exceeds	37,400		20,700		25,900	
50 percent exceeds	14,500		8,240		11,400	
90 percent exceeds	7,440		5,000		6,100	

^a Also Jun 12.



05420460 Beaver Slough at 3rd Street at Clinton, IA—Continued

WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: March to September 2012.

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	12.3	12.3	19.4	26.8	28.1	25.6
2	---	---	---	---	---	---	12.7	13.1	20.1	27.5	28.4	24.2
3	---	---	---	---	---	---	13.3	14.6	20.6	28.2	28.4	24.7
4	---	---	---	---	---	---	13.5	16.3	21.0	28.9	28.6	25.9
5	---	---	---	---	---	---	12.8	17.4	21.4	29.5	27.4	26.0
6	---	---	---	---	---	---	12.6	18.3	21.7	30.1	27.2	25.7
7	---	---	---	---	---	---	13.2	18.8	22.7	30.7	27.3	25.6
8	---	---	---	---	---	---	13.1	19.0	23.5	30.0	27.2	23.4
9	---	---	---	---	---	---	13.4	18.6	24.0	30.2	26.0	22.0
10	---	---	---	---	---	---	12.5	18.5	24.4	29.4	24.6	21.9
11	---	---	---	---	---	---	11.8	18.4	24.5	28.5	24.1	22.1
12	---	---	---	---	---	---	12.7	18.6	24.2	28.7	24.2	22.1
13	---	---	---	---	---	---	12.8	18.8	23.8	28.3	23.5	21.6
14	---	---	---	---	---	---	12.0	19.5	23.2	28.0	23.3	20.1
15	---	---	---	---	---	---	13.4	19.7	23.6	28.7	24.0	20.2
16	---	---	---	---	---	---	13.8	19.9	23.8	29.4	24.1	20.7
17	---	---	---	---	---	---	13.2	19.9	24.2	29.4	23.2	20.5
18	---	---	---	---	---	---	14.0	20.2	24.8	30.0	23.3	19.6
19	---	---	---	---	---	---	14.7	21.0	25.5	29.6	23.5	18.4
20	---	---	---	---	---	---	13.4	21.5	26.0	28.3	23.5	18.2
21	---	---	---	---	---	---	12.8	20.8	26.2	28.6	23.7	17.7
22	---	---	---	---	---	---	13.4	21.3	26.0	28.3	23.8	17.0
23	---	---	---	---	---	---	13.1	21.1	26.1	27.9	24.0	15.8
24	---	---	---	---	---	---	13.3	21.1	25.6	28.5	24.4	15.8
25	---	---	---	---	---	---	13.7	21.6	25.6	28.1	24.8	16.3
26	---	---	---	---	---	---	14.2	21.0	25.1	27.9	24.9	16.8
27	---	---	---	---	---	---	13.9	22.1	24.9	27.5	24.4	16.9
28	---	---	---	---	---	---	12.5	22.9	25.6	27.2	25.0	16.7
29	---	---	---	---	---	13.4	12.3	22.5	26.0	27.1	25.4	16.8
30	---	---	---	---	---	12.9	12.5	21.8	26.0	27.1	25.5	17.1
31	---	---	---	---	---	12.2	---	20.5	---	27.8	25.7	---
Mean	---	---	---	---	---	---	13.1	19.4	24.0	28.6	25.2	20.5
Max	---	---	---	---	---	---	14.7	22.9	26.2	30.7	28.6	26.0
Min	---	---	---	---	---	---	11.8	12.3	19.4	26.8	23.2	15.8