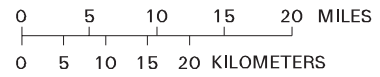


Base from U.S. Geological Survey hydrologic unit map State of Iowa, 1974



Gaging Stations

06483290	Rock River below Tom Creek at Rock Rapids, IA	374
06483500	Rock River near Rock Valley, IA	376
06485500	Big Sioux River at Akron, IA	378

Crest Stage Gaging Stations

06483440	Dawson Creek near Sibley, IA	492
06483495	Burr Oak Creek near Perkins, IA	492

06483290 ROCK RIVER BELOW TOM CREEK AT ROCK RAPIDS, IA

LOCATION.--Lat 43°25'23", long 96°09'52", in SW¹/₄ NW¹/₄ SE¹/₄ sec. 4, T.99 N., R.45 W., Lyon County, Hydrologic Unit 10170204, on right bank 5 ft downstream from bridge on gravel road in Campbell Park, near waterworks lift station, 200 ft east of Tama St and 8th Ave, 1.1 mi downstream of mouth of Tom Creek, and at mile 41.4.

DRAINAGE AREA.--853 mi².

PERIOD OF RECORD.--May 1, 2001 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,308.57 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. U.S. Geological Survey rain gage and data collection platform with satellite and telephone modem telemetry at station. Precipitation records are not published, but are available.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Apr. 8, 1969 reached a stage of 10.23 ft, discharge 29,000 ft³/s, at discontinued gaging station 1.4 mile upstream and above Tom Creek.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	50	e39	e58	e41	e976	473	191	1,780	271	257	78
2	48	50	e42	e57	e36	2,110	417	180	1,210	252	308	74
3	48	51	e40	e51	e28	1,910	367	173	959	347	310	70
4	48	53	e39	e44	e29	1,270	331	166	820	457	582	68
5	47	51	e32	e33	e25	1,150	307	157	703	587	1,010	73
6	46	42	e30	e32	e30	1,170	289	149	611	1,030	758	87
7	47	42	e38	e39	e27	976	271	138	523	1,240	514	80
8	49	38	e39	e46	e22	1,010	250	133	449	965	394	78
9	48	e44	e32	e39	e32	1,070	233	132	405	755	318	73
10	47	e57	e24	e38	e35	1,090	221	135	449	600	266	68
11	53	e56	e23	e46	e49	754	209	120	565	520	228	64
12	56	e54	e22	e41	e33	505	202	110	698	500	206	61
13	55	52	e32	e41	e33	607	195	107	797	765	185	63
14	54	56	e45	e38	e23	549	187	103	706	892	168	109
15	54	55	e47	e35	e19	459	179	98	589	684	155	606
16	52	58	e42	e44	e29	392	174	101	567	525	145	999
17	53	59	e36	e40	e25	360	168	133	1,420	481	135	1,040
18	52	57	e48	e32	e29	332	167	158	2,580	437	127	852
19	52	58	e44	e27	e33	327	172	199	1,870	377	118	691
20	52	56	e46	e35	e27	312	188	204	1,180	326	110	491
21	53	54	e56	e43	e26	306	228	217	965	290	102	389
22	53	46	e55	e30	e35	287	270	378	829	289	97	377
23	51	29	e52	e54	e61	277	274	650	691	319	100	429
24	51	27	e49	e43	e24	260	260	695	577	270	96	454
25	49	e37	e52	e43	e25	254	276	722	488	231	94	404
26	48	e36	e58	e33	e14	255	294	699	433	206	91	349
27	50	e38	e66	e32	e81	300	292	740	394	185	88	302
28	51	e34	e60	e30	e91	468	273	811	358	168	85	268
29	52	e37	e53	e29	e133	624	237	724	327	162	82	244
30	51	e42	e48	e30	---	616	211	1,060	296	233	79	226
31	49	---	e47	e37	---	541	---	1,820	---	282	82	---
TOTAL	1,569	1,419	1,336	1,220	1,095	21,517	7,615	11,403	24,239	14,646	7,290	9,167
MEAN	50.6	47.3	43.1	39.4	37.8	694	254	368	808	472	235	306
MAX	56	59	66	58	133	2,110	473	1,820	2,580	1,240	1,010	1,040
MIN	46	27	22	27	14	254	167	98	296	162	79	61
AC-FT	3,110	2,810	2,650	2,420	2,170	42,680	15,100	22,620	48,080	29,050	14,460	18,180
CFSM	0.06	0.06	0.05	0.05	0.04	0.81	0.30	0.43	0.95	0.55	0.28	0.36
IN.	0.07	0.06	0.06	0.05	0.05	0.94	0.33	0.50	1.06	0.64	0.32	0.40

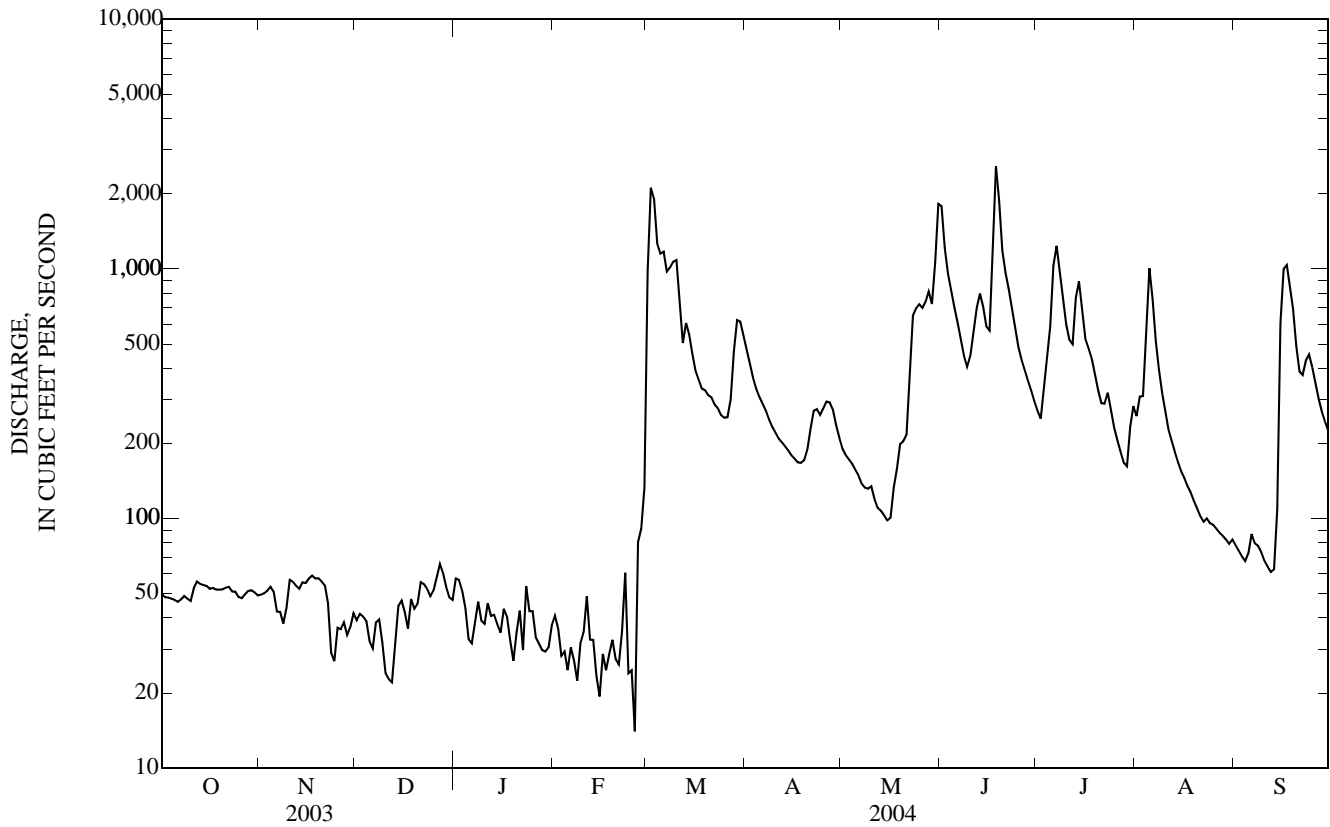
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)

MEAN	77.2	85.7	117	57.5	61.2	342	277	574	636	304	149	130
MAX	127	107	237	89.9	115	694	291	1,216	1,295	561	235	306
(WY)	(2003)	(2003)	(2002)	(2002)	(2002)	(2004)	(2003)	(2001)	(2001)	(2001)	(2004)	(2004)
MIN	50.6	47.3	43.1	39.4	31.4	138	254	310	174	48.2	31.7	46.3
(WY)	(2004)	(2004)	(2004)	(2004)	(2003)	(2003)	(2004)	(2002)	(2002)	(2002)	(2003)	(2002)

06483290 ROCK RIVER BELOW TOM CREEK AT ROCK RAPIDS, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004	
ANNUAL TOTAL	48,370		102,516			
ANNUAL MEAN	133		280		193	
HIGHEST ANNUAL MEAN					280	2004
LOWEST ANNUAL MEAN					146	2003
HIGHEST DAILY MEAN	866	Apr 21	2,580	Jun 18	8,870	Jun 13, 2001
LOWEST DAILY MEAN	12	Jan 26	14	Feb 26 a	12	Jan 26, 2003
ANNUAL SEVEN-DAY MINIMUM	18	Jan 22	26	Feb 14	18	Jan 22, 2003
MAXIMUM PEAK FLOW			3,440	Mar 1	12,000	Jun 13, 2001
MAXIMUM PEAK STAGE			14.85	Mar 1 b	19.30	Jun 13, 2001
ANNUAL RUNOFF (AC-FT)	95,940		203,300		140,000	
ANNUAL RUNOFF (CFSM)	0.155		0.328		0.227	
ANNUAL RUNOFF (INCHES)	2.11		4.47		3.08	
10 PERCENT EXCEEDS	345		744		448	
50 PERCENT EXCEEDS	54		119		98	
90 PERCENT EXCEEDS	26		33		32	

a Ice affected.
 b Backwater from ice jam.
 e Estimated.



06483500 ROCK RIVER NEAR ROCK VALLEY, IA

LOCATION.--Lat 43°12'52", long 96°17'39", in SW $\frac{1}{4}$ SW $\frac{1}{4}$ sec.16, T.97 N., R.46 W., Sioux County, Hydrologic Unit 10170204, on left bank 15 ft upstream from bridge on county highway K30, 0.3 mi north of Rock Valley, and at mile 19.1.

DRAINAGE AREA.--1,592 mi².

PERIOD OF RECORD.--June 1948 to current year.

REVISED RECORDS.--WSP 1439: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,222.54 ft above NGVD of 1929. Prior to Aug. 13, 1952, nonrecording gage with supplementary water-stage recorder operating above 6.2 ft gage height. June 4, 1949 to Aug. 12, 1952 and Aug. 13, 1952 to May 4, 1976, water-stage recorder, at site 3.2 mi downstream at datum 10.73 ft lower.

REMARKS.--Records good except those for estimated daily discharges, which are poor. U.S. Army Corps of Engineers rain gage and data collection platform with satellite telemetry at station. Precipitation records are available online at the U.S. Army Corps of Engineers website: www2.mvr.usace.army.mil/WaterControl/datamining2.cfm.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1897 reached a stage of 17.0 ft, former site and datum, discharge not determined, from information by State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	76	72	e63	e82	e55	e2,010	759	409	3,020	479	378	139
2	74	71	e66	e81	e50	6,820	680	388	2,390	448	410	131
3	74	74	e65	e75	e41	3,890	613	371	1,830	526	452	123
4	73	76	e63	e64	e42	2,630	556	363	1,510	628	525	117
5	71	76	e57	e51	e36	2,670	515	354	1,300	955	928	119
6	69	74	e55	e50	e44	2,870	481	343	1,160	1,830	1,070	146
7	69	72	e62	e56	e40	2,150	451	321	1,040	2,730	800	134
8	68	e71	e63	e63	e34	1,750	419	312	929	2,740	647	125
9	67	e76	e54	e54	e44	1,830	393	309	847	2,110	548	124
10	66	e83	e28	e53	e46	1,700	374	328	810	1,660	473	115
11	71	e81	e40	e63	e60	1,390	355	345	925	1,380	417	110
12	75	78	e37	e57	e44	835	341	351	1,020	1,190	376	108
13	74	76	e49	e57	e44	905	328	330	1,100	1,340	346	104
14	73	76	e65	e53	e34	864	318	314	1,070	1,690	317	138
15	73	76	e68	e50	e28	745	305	273	960	1,450	293	627
16	72	77	e63	e59	e40	670	296	242	1,010	1,160	274	1,420
17	72	77	e57	e55	e36	601	287	244	1,200	1,010	258	1,860
18	72	77	e72	e46	e40	567	318	298	2,770	907	243	1,780
19	70	77	e68	e39	e44	535	357	324	2,920	803	223	1,490
20	69	76	e70	e49	e42	516	368	366	1,760	704	211	1,200
21	69	75	e89	e60	e40	493	429	423	1,360	651	195	982
22	70	74	e87	e43	e46	478	486	540	1,130	573	183	971
23	71	e62	e81	e70	e74	455	520	1,340	974	557	188	1,190
24	70	e53	e79	e60	e46	437	492	1,590	864	526	184	1,310
25	70	e63	e88	e60	e41	422	519	1,670	772	465	176	1,210
26	69	e60	e103	e53	e32	413	523	1,570	699	425	172	1,050
27	71	e62	e113	e48	e122	442	545	1,450	647	390	159	913
28	75	e58	e102	e46	e198	606	531	1,470	602	356	153	808
29	74	e60	e90	e45	e314	811	488	1,410	558	319	146	727
30	73	e66	e81	e46	---	923	444	1,670	519	321	140	666
31	72	---	e77	e50	---	851	---	2,470	---	402	138	---
TOTAL	2,212	2,149	2,155	1,738	1,757	42,279	13,491	22,188	37,696	30,725	11,023	19,937
MEAN	71.4	71.6	69.5	56.1	60.6	1,364	450	716	1,257	991	356	665
MAX	76	83	113	82	314	6,820	759	2,470	3,020	2,740	1,070	1,860
MIN	66	53	28	39	28	413	287	242	519	319	138	104
AC-FT	4,390	4,260	4,270	3,450	3,490	83,860	26,760	44,010	74,770	60,940	21,860	39,550
CFSM	0.04	0.04	0.04	0.04	0.04	0.86	0.28	0.45	0.79	0.62	0.22	0.42
IN.	0.05	0.05	0.05	0.04	0.04	0.99	0.32	0.52	0.88	0.72	0.26	0.47

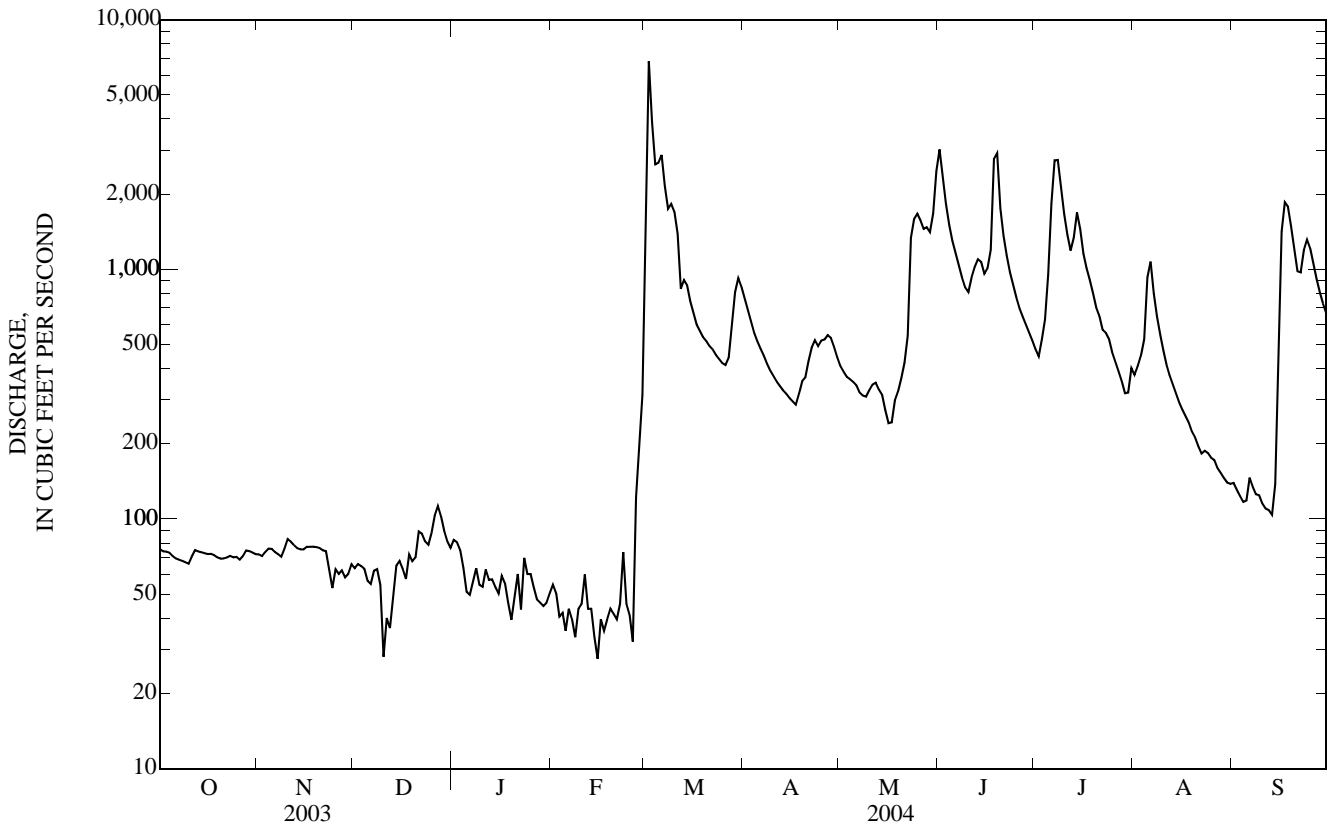
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)

MEAN	228	255	147	81.3	215	1,000	1,304	714	965	607	269	238
MAX	1,232	2,039	676	434	1,059	4,646	6,507	3,728	6,495	9,088	2,251	2,135
(WY)	(1993)	(1980)	(1983)	(1996)	(1966)	(1997)	(1969)	(1993)	(1993)	(1993)	(1993)	(1986)
MIN	2.39	9.70	3.22	0.04	0.30	35.1	35.9	44.4	46.3	21.9	6.79	3.26
(WY)	(1959)	(1959)	(1959)	(1977)	(1959)	(1959)	(1959)	(1968)	(1964)	(1976)	(1976)	(1955)

06483500 ROCK RIVER NEAR ROCK VALLEY, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004	
ANNUAL TOTAL	78,192		187,350			
ANNUAL MEAN	214		512		502	
HIGHEST ANNUAL MEAN					2,656	1993
LOWEST ANNUAL MEAN					31.0	1968
HIGHEST DAILY MEAN	1,200	May 13	6,820	Mar 2	35,400	Apr 7, 1969
LOWEST DAILY MEAN	26	Jan 26	28	Dec 10 a	0.00	Feb 20, 1959 b
ANNUAL SEVEN-DAY MINIMUM	34	Jan 23	38	Feb 14	0.00	Feb 27, 1959
MAXIMUM PEAK FLOW			8,380	Mar 2	40,400	Apr 7, 1969
MAXIMUM PEAK STAGE			12.24	Mar 2	17.32	Apr 7, 1969 c
ANNUAL RUNOFF (AC-FT)	155,100		371,600		363,600	
ANNUAL RUNOFF (CFSM)	0.135		0.322		0.315	
ANNUAL RUNOFF (INCHES)	1.83		4.38		4.28	
10 PERCENT EXCEEDS	558		1,400		1,140	
50 PERCENT EXCEEDS	83		274		137	
90 PERCENT EXCEEDS	48		50		17	

- a Also Feb. 15.
- b Many days during winter periods in 1959 and 1977.
- c At location and datum then in use.
- e Estimated.



06485500 BIG SIOUX RIVER AT AKRON, IA

LOCATION.--Lat 42°50'14", long 96°33'41", in SW¹/₄ SE¹/₄ SW¹/₄ sec.30, T.93 N., R.48 W., Plymouth County, Hydrologic Unit 10170203, on left bank 15 ft downstream from Iowa Highway 403 bridge, 0.5 mi northwest of Akron, and 2.9 mi upstream from Union Creek.

DRAINAGE AREA.--8,424 mi², of which 1,487 mi² usually is noncontributing (documented runoff occurred during 1994-2002 water years for 213 mi² of the usually noncontributing area).

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1928 to current year.

REVISED RECORDS.--WSP 1309: 1929(M), 1931-33(M), 1936(M), 1938(M), 1940(M). WSP 1389: Drainage area. WDR SD-84-1: Drainage area. WDR SD-94-1 only: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,118.90 ft above NGVD of 1929. Prior to Dec. 3, 1934, nonrecording gage at bridge 0.5 mi downstream at same datum. From Dec. 3, 1934, to Oct. 31, 1985, water-stage recorder at site 0.6 mi downstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. U.S. Army Corps of Engineers satellite data-collection platform at station. Water temperature and specific conductance measured during the year are compiled in the Miscellaneous Temperature Measurements and Field Determinations section.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	272	279	e250	e245	e170	e2,000	1,960	895	7,890	1,620	945	448
2	268	275	e245	e250	e169	e5,000	1,780	840	10,200	1,530	928	456
3	265	283	e240	e245	e168	8,920	1,630	793	8,570	1,550	954	521
4	262	285	e200	e240	e167	7,220	1,490	764	5,360	1,630	1,030	444
5	259	291	e240	e220	e165	5,410	1,350	730	4,390	1,690	1,250	422
6	257	284	e235	e210	e162	5,350	1,240	700	3,790	2,370	2,000	447
7	253	283	e230	e220	e160	4,980	1,170	664	3,380	3,100	2,030	428
8	249	268	e230	e230	e162	4,160	1,110	633	3,030	3,700	1,760	485
9	244	255	e225	e230	e162	3,450	1,050	615	2,710	3,640	1,510	467
10	240	293	e200	e225	e162	3,370	1,000	614	2,480	3,150	1,180	419
11	251	324	e220	e215	e162	3,230	955	600	2,420	2,730	1,050	398
12	261	314	e230	e220	e160	2,820	920	585	2,620	2,410	948	381
13	266	300	e240	e215	e159	2,130	885	573	3,080	2,210	875	365
14	288	302	e250	e205	e157	2,140	848	586	3,050	2,360	808	469
15	295	301	e245	e200	e155	2,150	822	615	2,940	2,750	777	854
16	275	299	e245	e205	e153	1,970	794	588	2,920	2,670	713	1,770
17	268	302	e245	e210	e150	1,800	756	584	4,050	2,430	669	2,440
18	269	300	e245	e200	e150	1,680	734	593	6,170	2,260	656	2,630
19	264	290	e245	e190	e150	1,610	839	679	5,810	2,080	625	2,440
20	259	298	e245	e190	e155	1,590	847	729	5,350	1,920	593	2,130
21	255	297	e250	e185	e165	1,490	853	819	4,480	1,770	562	1,880
22	255	296	e250	e180	e175	1,410	906	1,060	3,930	1,650	539	1,680
23	254	297	e250	e180	e185	1,360	973	1,780	3,360	1,470	563	1,660
24	248	e285	e250	e185	e195	1,290	996	2,850	2,930	1,490	540	1,790
25	244	e280	e250	e185	e200	1,240	1,020	3,160	2,600	1,540	555	1,960
26	246	e275	e250	e185	e205	1,180	1,050	3,130	2,340	1,410	553	1,950
27	255	e270	e250	e180	e215	1,180	1,100	2,880	2,140	1,250	513	1,810
28	262	e265	e245	e175	e260	1,350	1,090	2,590	2,000	1,110	494	1,720
29	262	e260	e245	e175	e700	1,630	1,040	3,280	1,860	1,020	482	1,660
30	265	e255	e245	e170	---	2,000	969	4,000	1,720	964	467	1,610
31	272	---	e245	e175	---	2,070	---	5,170	---	914	457	---
TOTAL	8,083	8,606	7,435	6,340	5,498	87,180	32,177	44,099	117,570	62,388	27,026	36,134
MEAN	261	287	240	205	190	2,812	1,073	1,423	3,919	2,013	872	1,204
MAX	295	324	250	250	700	8,920	1,960	5,170	10,200	3,700	2,030	2,630
MIN	240	255	200	170	150	1,180	734	573	1,720	914	457	365
AC-FT	16,030	17,070	14,750	12,580	10,910	172,900	63,820	87,470	233,200	123,700	53,610	71,670

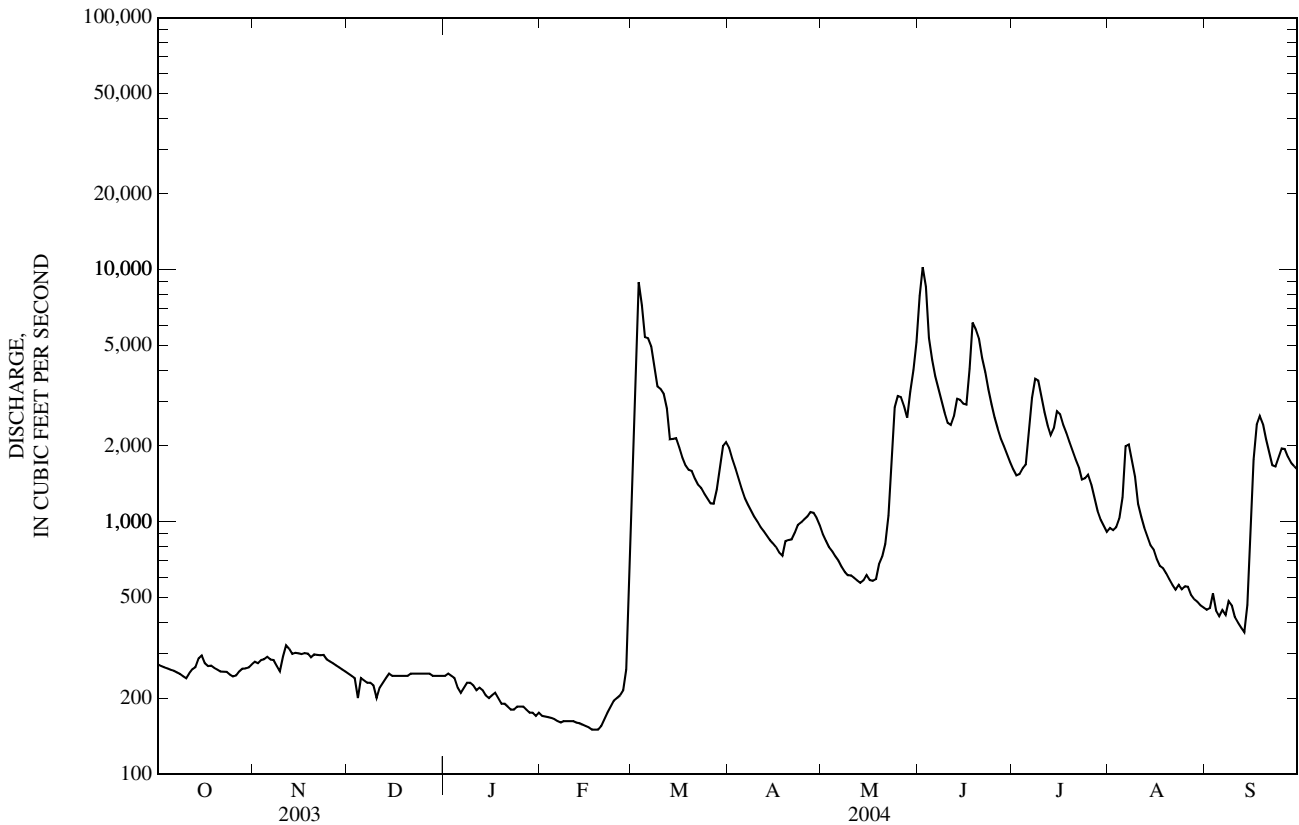
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2004, BY WATER YEAR (WY)

MEAN	529	526	364	219	506	2,349	3,346	1,874	2,207	1,497	766	673
MAX	4,039	3,022	1,987	920	2,399	8,866	20,690	9,499	15,820	21,740	6,200	7,313
(WY)	(1987)	(1980)	(1999)	(1996)	(1966)	(1983)	(1969)	(1993)	(1984)	(1993)	(1993)	(1986)
MIN	32.9	47.9	32.1	6.68	12.1	124	139	73.3	100	50.7	45.2	36.4
(WY)	(1959)	(1959)	(1977)	(1977)	(1936)	(1931)	(1931)	(1934)	(1933)	(1931)	(1976)	(1976)

06485500 BIG SIOUX RIVER AT AKRON, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1929 - 2004	
ANNUAL TOTAL	250,797		442,536		^a 1,239	
ANNUAL MEAN	687		1,209		6,271	
HIGHEST ANNUAL MEAN					120	
LOWEST ANNUAL MEAN					1931	
HIGHEST DAILY MEAN	2,900	Jun 28	10,200	Jun 2	77,500	Apr 9, 1969
LOWEST DAILY MEAN	145	Sep 8	150	Feb 17	4.0	Jan 17, 1977
ANNUAL SEVEN-DAY MINIMUM	153	Sep 3	153	Feb 14	4.4	Jan 15, 1977
MAXIMUM PEAK FLOW			11,000		^b 80,800	
MAXIMUM PEAK STAGE			17.87		^c 23.38	
ANNUAL RUNOFF (AC-FT)	497,500		877,800		897,300	
10 PERCENT EXCEEDS	1,720		2,970		2,910	
50 PERCENT EXCEEDS	315		596		410	
90 PERCENT EXCEEDS	200		194		73	

- a Median of annual mean discharges, 860 ft³/s.
- b Gage height, 22.99 ft.
- c Discharge, 40,400 ft³/s.
- e Estimated.



(Large River Mass Contaminants Station)

WATER QUALITY RECORDS

PERIOD OF RECORD.--October 2003 to September 30, 2004.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Instantaneous discharge, cfs (00061)	Stream width, feet (00004)	Turbidity, wat unflab, Hach 2100AN NTU (99872)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	pH, water, unfltrd field, std units (00400)	Specific conductance, wat unfl uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Alkalinity, wat flt inc tit mg/L as CaCO3 (39086)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)
MAR 09...	1200	3,410	230	150	738	11.4	88	7.9	612	3.4	149	182	--
APR 13...	0930	886	175	22	732	13.3	117	8.5	912	8.0	231	247	17
MAY 12...	1030	585	175	42	723	8.4	97	8.2	837	19.6	--	--	--
MAY 26...	1300	3,110	225	160	724	--	--	8.0	867	14.0	205	250	--
JUN 02...	1215	10,400	280	160	733	5.9	63	7.6	473	16.5	140	171	--
JUL 14...	1030	2,300	215	110	734	7.7	100	8.2	869	26.7	242	285	5
AUG 11...	0940	1,060	188	85	734	8.9	103	8.5	801	20.5	230	260	11
SEP 08...	0730	466	185	28	735	8.3	94	8.1	727	19.4	146	178	--
SEP 17...	1230	2,500	220	240	739	5.3	60	7.6	642	19.0	154	188	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Chloride, water, fltrd, mg/L (00940)	Silica, water, fltrd, mg/L (00955)	Sulfate, water, fltrd, mg/L (00945)	Ammonia, water, fltrd, mg/L as N (00608)	Nitrite + nitrate, water, fltrd, mg/L as N (00631)	Nitrite, water, fltrd, mg/L as N (00613)	Particulate nitrogen, susp, water, mg/L (49570)	Orthophosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, water, unfltrd, mg/L (00665)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unfl by analysis, mg/L (62855)	Total carbon, suspnd sediment total, mg/L (00694)
MAR 09...	29.5	14.6	84.1	.84	7.25	.137	1.25	.435	.51	1.04	9.54	10.5	13.6
APR 13...	45.7	4.4	189	<.04	4.10	.018	1.00	.037	.007	.28	4.33	5.53	6.1
MAY 12...	47.6	1.5	187	E.02	3.06	.039	1.36	E.005	.019	.32	3.43	4.93	10.0
MAY 26...	30.1	13.8	169	.10	9.26	.077	1.36	.206	.24	.78	9.67	10.9	15.2
JUN 02...	14.2	13.4	85.7	.20	4.48	.089	.94	.133	.155	.62	5.13	5.28	10.5
JUL 14...	31.1	14.3	142	E.02	8.66	.026	1.59	.074	.092	.49	8.90	7.73	15.3
AUG 11...	31.4	13.6	147	<.04	4.45	.015	1.41	.070	.084	.41	4.91	6.29	12.3
SEP 08...	44.4	6.4	175	<.04	1.18	.026	.97	E.004	.030	.28	1.58	3.37	6.4
SEP 17...	--	--	--	.85	2.10	.088	2.74	.576	.63	1.43	3.97	6.83	33.2

06485500 BIG SIOUX RIVER AT AKRON, IA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Inorganic carbon, suspnd sediment total, mg/L (00688)	Organic carbon, suspnd sediment total, mg/L (00689)	Organic carbon, water, fltrd, mg/L (00681)	Pheophytin a, phytoplankton, ug/L (62360)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	2,6-Diethyl-aniline water fltrd, 0.7u GF ug/L (82660)	CIAT, water, fltrd, ug/L (04040)	Acetochlor, water, fltrd, ug/L (49260)	Alachlor, water, fltrd, ug/L (46342)	alpha-HCH, water, fltrd, ug/L (34253)	Atrazine, water, fltrd, ug/L (39632)	Azinphosmethyl, water, fltrd, 0.7u GF ug/L (82686)	Benfluralin, water, fltrd, 0.7u GF ug/L (82673)
MAR 09...	.4	13.2	16.8	11.5	10.7	<.006	E.042	.500	<.005	<.005	.173	<.050	<.010
APR 13...	<.1	6.1	4.1	33.3	90.0	<.006	E.015	.020	<.005	<.005	.045	<.050	<.010
MAY 12...	1.0	8.9	4.2	58.0	171	<.006	E.030	.063	.008	<.005	.140	<.050	<.010
MAY 26...	2.2	13.0	6.2	21.3	26.3	<.006	E.060	.911	.015	<.005	.759	<.050	<.010
JUN 02...	.3	10.3	7.4	13.3	8.7	<.006	E.109	1.32	.057	<.005	1.80	<.050	<.010
JUL 14...	2.0	13.3	4.6	65.7	112	<.006	E.045	.017	<.005	<.005	.696	<.050	<.010
AUG 11...	2.1	10.2	5.1	39.4	173	<.006	E.037	.012	<.005	<.005	.214	<.050	<.010
SEP 08...	.2	6.1	4.1	80.5	90.8	<.006	E.015	.006	<.005	<.005	.092	<.050	<.010
SEP 17...	6.9	26.2	8.5	55.4	34.5	<.006	E.024	.015	<.005	<.005	.104	<.050	<.010

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Butylate, water, fltrd, ug/L (04028)	Carbaryl, water, fltrd, 0.7u GF ug/L (82680)	Carbofuran, water, fltrd, 0.7u GF ug/L (82674)	Chlorpyrifos, water, fltrd, ug/L (38933)	cis-Permethrin, water, fltrd, 0.7u GF ug/L (82687)	Cyanazine, water, fltrd, ug/L (04041)	DCPA, water, fltrd, 0.7u GF ug/L (82682)	Desulf-inyl fipronil, water, fltrd, ug/L (62170)	Diazinon, water, fltrd, ug/L (39572)	Dieldrin, water, fltrd, ug/L (39381)	Disulfoton, water, fltrd, 0.7u GF ug/L (82677)	EPTC, water, fltrd, 0.7u GF ug/L (82668)	Ethalfuralin, water, fltrd, 0.7u GF ug/L (82663)
MAR 09...	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009
APR 13...	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009
MAY 12...	<.004	<.041	<.020	<.005	<.006	<.018	<.003	E.003	<.005	<.009	<.02	E.003	<.009
MAY 26...	<.004	E.008	<.020	E.005	<.006	E.010	<.003	E.004	.006	<.009	<.02	E.003	<.009
JUN 02...	<.004	E.016	E.005	.005	<.006	E.018	<.003	E.003	<.005	<.009	<.02	.008	<.009
JUL 14...	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009
AUG 11...	<.004	<.041	<.020	<.005	<.006	<.018	<.003	<.012	<.005	<.009	<.02	<.004	<.009
SEP 08...	<.004	<.041	<.020	<.005	<.006	<.018	<.003	E.003	E.002	<.009	<.02	<.004	<.009
SEP 17...	<.004	E.011	<.020	E.004	<.006	<.018	E.002	E.003	E.004	<.009	<.02	<.004	<.009

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Ethoprop, water, fltrd, 0.7u GF ug/L (82672)	Desulf-inyl fipronil, amide, wat flt ug/L (62169)	Fipronil sulfide, water, fltrd, ug/L (62167)	Fipronil sulfone, water, fltrd, ug/L (62168)	Fipronil, water, fltrd, ug/L (62166)	Fonofos, water, fltrd, ug/L (04095)	Lindane, water, fltrd, ug/L (39341)	Linuron, water, fltrd, 0.7u GF ug/L (82666)	Malathion, water, fltrd, ug/L (39532)	Methyl parathion, water, fltrd, 0.7u GF ug/L (82667)	Metolachlor, water, fltrd, ug/L (39415)	Metribuzin, water, fltrd, ug/L (82630)	Molinate, water, fltrd, 0.7u GF ug/L (82671)
MAR 09...	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015	1.65	<.006	<.003
APR 13...	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015	.111	<.006	<.003
MAY 12...	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015	.079	<.006	<.003
MAY 26...	<.005	<.029	<.013	<.024	E.014	<.003	<.004	<.035	<.027	<.015	.387	.012	<.003
JUN 02...	<.005	<.029	<.013	E.005	E.019	<.003	<.004	<.035	<.027	<.015	.662	<.007	<.003
JUL 14...	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015	.046	<.006	<.003
AUG 11...	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015	.045	<.006	<.003
SEP 08...	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015	.035	<.006	<.003
SEP 17...	<.005	<.029	<.013	<.024	<.016	<.003	<.004	<.035	<.027	<.015	.049	<.006	<.003

06485500 BIG SIOUX RIVER AT AKRON, IA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Naprop- amide, water, fltrd 0.7u GF ug/L (82684)	p,p'- DDE, water, fltrd, ug/L (34653)	Para- thion, water, fltrd, ug/L (39542)	Peb- ulate, water, fltrd 0.7u GF ug/L (82669)	Pendi- meth- alin, water, fltrd 0.7u GF ug/L (82683)	Phorate water fltrd 0.7u GF ug/L (82664)	Prome- ton, water, fltrd, ug/L (04037)	Propy- zamide, water, fltrd 0.7u GF ug/L (82676)	Propa- chlor, water, fltrd, ug/L (04024)	Pro- panil, water, fltrd 0.7u GF ug/L (82679)	Propar- gite, water, fltrd 0.7u GF ug/L (82685)	Sima- zine, water, fltrd, ug/L (04035)	Tebu- thiuron water fltrd 0.7u GF ug/L (82670)
MAR 09...	<.007	<.003	<.010	<.004	<.022	<.011	<.01	<.004	<.025	<.011	<.02	<.005	<.02
APR 13...	<.007	<.003	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02
MAY 12...	<.007	<.003	<.010	<.004	E.006	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02
MAY 26...	<.007	<.003	<.010	<.004	<.022	<.011	.02	<.004	<.025	<.011	<.02	.007	<.02
JUN 02...	<.007	<.003	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.010	<.02
JUL 14...	<.007	<.003	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	.005	<.02
AUG 11...	<.007	<.003	<.010	<.004	<.022	<.011	.01	<.004	<.025	<.011	<.02	<.005	<.02
SEP 08...	<.007	<.003	<.010	<.004	<.022	<.011	.03	<.010	<.025	<.011	<.02	<.005	<.02
SEP 17...	<.007	<.005	<.010	<.004	<.022	<.011	.02	<.007	<.025	<.011	<.02	<.005	<.02

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004—CONTINUED

Date	Terba- cil, water, fltrd 0.7u GF ug/L (82665)	Terbu- fos, water, fltrd 0.7u GF ug/L (82675)	Thio- bencarb water fltrd 0.7u GF ug/L (82681)	Tri- allate, water, fltrd 0.7u GF ug/L (82678)	Tri- flur- alin, water, fltrd 0.7u GF ug/L (82661)	Sus- pended sedi- ment concen- tration mg/L (80154)	Number of sam- pling points, count (00063)
MAR 09...	<.034	<.02	<.010	<.002	<.009	531	11
APR 13...	<.034	<.02	<.010	<.002	<.009	62	12
MAY 12...	<.034	<.02	<.010	<.002	<.009	109	11
MAY 26...	<.034	<.02	<.010	<.002	E.009	360	11
JUN 02...	<.034	<.02	<.010	<.002	E.007	482	7
JUL 14...	<.034	<.02	<.010	<.002	<.009	443	11
AUG 11...	<.034	<.02	<.010	<.002	<.009	202	12
SEP 08...	<.034	<.02	<.010	<.002	<.009	85	11
SEP 17...	<.034	<.02	<.010	<.002	<.009	1,030	11

06485500 BIG SIOUX RIVER AT AKRON, IA—Continued