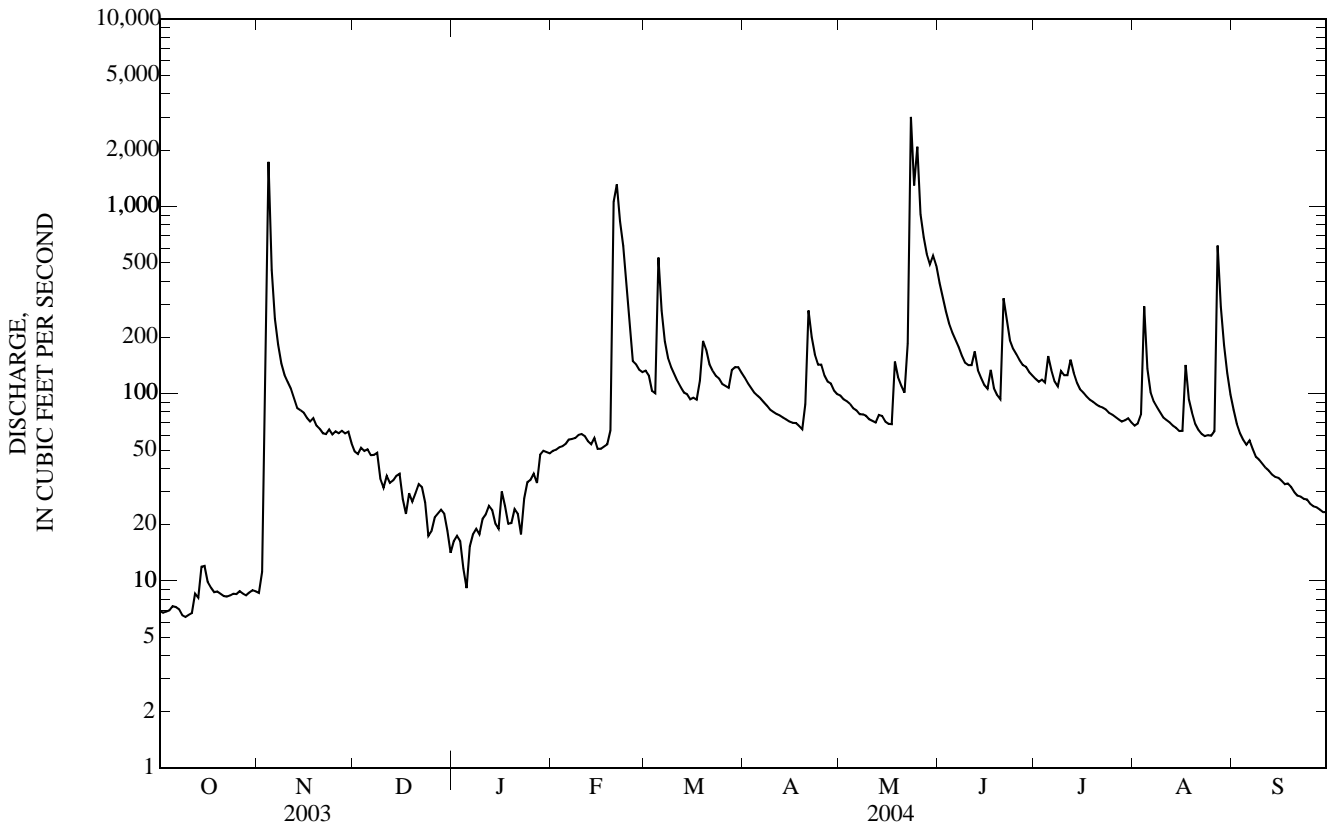


05451700 TIMBER CREEK NEAR MARSHALLTOWN, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	21,010.28		45,552.5		79.3	
ANNUAL MEAN	57.6		124		299	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					1956	
HIGHEST DAILY MEAN	1,730	Nov 4	3,010	May 23	6,570	Aug 16, 1977
LOWEST DAILY MEAN	0.01	Feb 28	6.4	Oct 9	0.00	Jul 24, 1956 a
ANNUAL SEVEN-DAY MINIMUM	0.35	Feb 26	6.9	Oct 5	0.00	Oct 4, 1956
MAXIMUM PEAK FLOW			4,240	May 23	12,000	Aug 16, 1977
MAXIMUM PEAK STAGE			15.62	May 23	17.69	Aug 16, 1977
INSTANTANEOUS LOW FLOW			6.1	Oct 9	0.00	Jul 24, 1956
ANNUAL RUNOFF (AC-FT)	41,670		90,350		57,460	
ANNUAL RUNOFF (CFSM)	0.488		1.05		0.672	
ANNUAL RUNOFF (INCHES)	6.62		14.36		9.13	
10 PERCENT EXCEEDS	113		187		173	
50 PERCENT EXCEEDS	21		72		32	
90 PERCENT EXCEEDS	3.5		15		3.3	

a Several days in July, Oct. 1956, Feb., July 1977.

e Estimated.



05451900 RICHLAND CREEK NEAR HAVEN, IA

LOCATION.--Lat 41°53'58", long 92°28'27", in SE¹/₄ NE¹/₄ sec.21, T.82 N., R.14 W., Tama County, Hydrologic Unit 07080208, on right bank 5 ft upstream from bridge on county highway, 0.5 mi northeast of Haven, and 3.0 mi upstream from mouth.

DRAINAGE AREA.--56.1 mi².

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WSP 1708: 1950-55, 1956 (M), 1957, 1958 (M), 1959.

GAGE.--Water-stage recorder. Datum of gage is 788.69 ft above NGVD of 1929. Prior to Oct. 1, 1971, at datum 10.00 ft higher.

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 June 1918 reached a stage of 24.3 ft present datum, discharge not determined.

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	2.1	2.1	15	e11	e11	43	44	28	121	19	3.5	88
2	1.8	5.4	15	e9.2	e11	39	41	27	93	18	49	71
3	e2.1	59	16	e7.8	e9.0	31	38	26	77	24	19	59
4	e2.0	522	16	e5.7	e7.3	43	36	26	66	20	243	50
5	1.8	135	17	e9.9	e8.9	281	36	25	59	20	44	46
6	1.7	75	16	e15	e12	126	34	24	54	19	22	81
7	1.6	51	16	e14	e9.8	84	33	24	47	16	17	49
8	1.5	40	16	e14	e9.8	67	31	24	40	15	14	43
9	1.5	35	18	e9.9	e11	58	30	23	36	15	11	41
10	1.6	32	28	e12	e12	53	29	23	36	14	9.6	38
11	1.6	29	e22	e18	e8.9	47	29	23	37	22	8.6	35
12	2.1	26	e19	e18	e9.8	45	28	22	30	18	7.2	33
13	2.3	22	e18	e18	e6.4	40	27	25	27	14	5.9	31
14	6.5	23	e19	e16	e8.1	39	27	25	25	12	6.1	30
15	3.6	22	e19	e12	e8.9	36	26	23	22	11	3.8	29
16	2.7	20	e21	e20	e8.9	37	25	22	26	14	9.1	27
17	2.5	20	e20	e58	e9.8	37	26	23	63	13	7.0	26
18	2.2	21	e19	e27	e11	56	25	113	28	10	4.7	26
19	2.1	18	e18	e20	e25	88	24	73	24	9.7	5.2	24
20	3.4	17	e17	e19	e485	72	31	57	22	8.8	3.2	23
21	4.5	16	e18	e19	e197	57	46	49	266	8.3	2.7	22
22	4.3	16	e18	e15	e124	52	37	61	113	8.5	2.3	21
23	4.9	21	e18	e12	e79	49	34	427	62	7.8	2.1	21
24	3.7	18	e17	e12	e49	48	34	217	48	5.9	3.6	21
25	4.4	21	e18	e11	41	44	36	489	40	5.6	2.7	20
26	3.6	19	e19	e12	40	42	31	192	33	4.6	50	20
27	3.1	17	19	e12	39	42	30	142	30	3.9	899	20
28	2.5	16	20	e11	37	54	30	105	27	3.3	480	19
29	2.1	23	18	e9.0	39	53	27	89	24	5.2	218	18
30	2.1	18	e15	e8.1	---	51	27	238	21	6.4	156	18
31	2.1	---	e12	e7.3	---	48	---	173	---	3.6	114	---
TOTAL	84.0	1,359.5	557	462.9	1,328.6	1,862	952	2,838	1,597	375.6	2,423.3	1,050
MEAN	2.71	45.3	18.0	14.9	45.8	60.1	31.7	91.5	53.2	12.1	78.2	35.0
MAX	6.5	522	28	58	485	281	46	489	266	24	899	88
MIN	1.5	2.1	12	5.7	6.4	31	24	22	21	3.3	2.1	18
AC-FT	167	2,700	1,100	918	2,640	3,690	1,890	5,630	3,170	745	4,810	2,080
CFSM	0.05	0.81	0.32	0.27	0.82	1.07	0.57	1.63	0.95	0.22	1.39	0.62
IN.	0.06	0.90	0.37	0.31	0.88	1.23	0.63	1.88	1.06	0.25	1.61	0.70

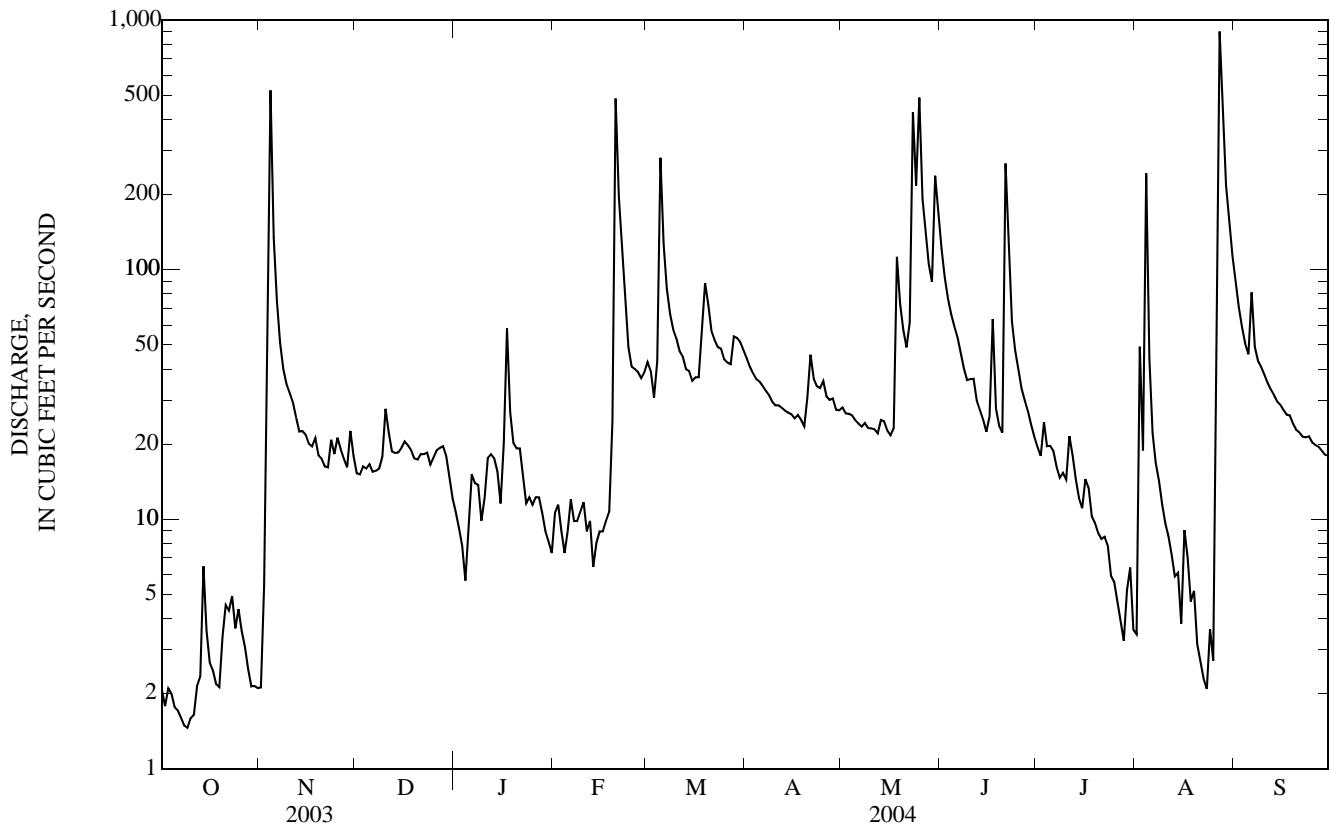
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	17.7	22.5	16.7	18.7	42.0	66.2	56.5	63.1	67.8	44.4	31.9	19.2
MAX	105	122	85.8	104	165	270	323	337	270	463	427	159
(WY)	(1987)	(1984)	(1983)	(1960)	(1965)	(1979)	(1991)	(1974)	(1990)	(1993)	(1993)	(1993)
MIN	0.24	0.31	0.25	0.02	0.32	1.05	0.85	2.04	0.25	0.66	0.76	0.58
(WY)	(1957)	(1951)	(1957)	(1977)	(1989)	(1956)	(1956)	(1956)	(1956)	(1977)	(1955)	(1950)

05451900 RICHLAND CREEK NEAR HAVEN, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	12,380.7		14,889.9		38.8	
ANNUAL MEAN	33.9		40.7		162	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					1956	
HIGHEST DAILY MEAN	577	May 1	899	Aug 27	2,880	Aug 16, 1977
LOWEST DAILY MEAN	1.5	Oct 8	1.5	Oct 8 a	0.00	Jan 22, 1977 b
ANNUAL SEVEN-DAY MINIMUM	1.6	Oct 5	1.6	Oct 5	0.00	Jan 22, 1977
MAXIMUM PEAK FLOW			1,430	Aug 27	12,200	Apr 12, 1991
MAXIMUM PEAK STAGE			20.22	Feb 20 c	26.71	Apr 12, 1991
INSTANTANEOUS LOW FLOW			1.2	Oct 1		
ANNUAL RUNOFF (AC-FT)	24,560		29,530		28,140	
ANNUAL RUNOFF (CFSM)	0.605		0.725		0.692	
ANNUAL RUNOFF (INCHES)	8.21		9.87		9.41	
10 PERCENT EXCEEDS	74		71		80	
50 PERCENT EXCEEDS	13		22		14	
90 PERCENT EXCEEDS	3.0		3.8		1.4	

- a Also Oct. 9.
- b Also Jan. 23 to Feb. 2, 1977, July 9 and 10, 1959.
- c Ice affected.
- e Estimated.



05452000 SALT CREEK NEAR ELBERON, IA

LOCATION.--Lat 41°57'51", long 92°18'47", in NW¹/₄ NW¹/₄ sec.36, T.83 N., R.13 W., Tama County, Hydrologic Unit 07080208, on left bank 20 ft upstream from bridge on U.S. Highway 30, 2.0 mi upstream from Hog Run, 3.0 mi south of Elberon, and 9.0 mi upstream from mouth.

DRAINAGE AREA.--201 mi².

PERIOD OF RECORD.--October 1945 to current year.

REVISED RECORDS.--WSP 1438: Drainage area. WSP 1558: 1946.

GAGE.--Water-stage recorder. Datum of gage is 781.58 ft above NGVD of 1929 (Iowa Highway Commission bench mark). Prior to Oct. 15, 1945 and June 14, 1947 to Feb. 10, 1949, nonrecording gage on upstream side of bridge at present datum.

REMARKS.--Records good except those for estimated daily discharge, 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 of June 16, 1944 reached a stage of 19.9 ft, from floodmark at downstream side of bridge, discharge, about 30,000 ft³/s.

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	10	11	e49	e38	e19	164	165	95	436	134	63	65
2	10	17	e49	e36	e23	172	153	91	371	128	99	59
3	11	46	e50	e34	e21	130	145	88	338	194	95	54
4	11	1,100	e50	e26	e21	125	137	88	315	230	189	51
5	11	338	e48	e31	e23	847	132	84	297	184	122	49
6	11	159	44	e33	e25	414	129	83	282	399	90	62
7	10	113	44	e30	e23	273	124	79	263	196	80	52
8	10	90	45	e29	e25	219	118	80	245	163	74	46
9	10	81	46	e24	e26	194	111	80	232	148	68	44
10	10	73	58	e27	e26	176	107	78	256	141	63	42
11	11	70	47	e31	e24	164	103	79	376	151	60	38
12	11	63	e42	e33	e23	141	101	78	277	182	58	36
13	12	55	e42	e35	e22	148	99	93	245	149	55	35
14	16	54	e42	e32	e22	147	97	110	223	133	54	34
15	15	55	e44	e27	e23	137	95	97	206	123	51	34
16	13	53	e46	e34	e22	139	94	89	196	116	52	33
17	12	51	e44	e57	e23	141	93	90	356	110	60	31
18	12	55	e43	e45	e29	164	91	126	226	105	55	32
19	12	54	e40	e34	e37	222	89	108	202	101	54	30
20	12	52	e40	e31	e597	212	93	101	190	95	50	28
21	12	51	e42	e31	e1,140	180	151	95	309	92	48	28
22	11	48	e42	e28	e789	169	133	258	278	91	46	27
23	11	61	e41	e25	e519	163	119	1,920	213	88	45	27
24	11	57	e38	e25	e351	168	114	2,320	198	84	48	27
25	12	64	e41	e25	194	176	122	1,850	194	81	49	26
26	12	61	e43	e26	164	181	112	1,500	178	78	50	26
27	12	e57	52	e24	165	186	104	605	166	74	124	25
28	12	e54	62	e22	146	208	105	474	159	71	223	24
29	12	e56	52	e20	148	208	99	426	149	73	127	23
30	12	e61	e43	e18	---	193	95	533	141	73	90	23
31	11	---	e40	e18	---	177	---	573	---	68	73	---
TOTAL	358	3,160	1,409	929	4,670	6,338	3,430	12,371	7,517	4,055	2,415	1,111
MEAN	11.5	105	45.5	30.0	161	204	114	399	251	131	77.9	37.0
MAX	16	1,100	62	57	1,140	847	165	2,320	436	399	223	65
MIN	10	11	38	18	19	125	89	78	141	68	45	23
AC-FT	710	6,270	2,790	1,840	9,260	12,570	6,800	24,540	14,910	8,040	4,790	2,200
CFSM	0.06	0.52	0.23	0.15	0.80	1.02	0.57	1.99	1.25	0.65	0.39	0.18
IN.	0.07	0.58	0.26	0.17	0.86	1.17	0.63	2.29	1.39	0.75	0.45	0.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

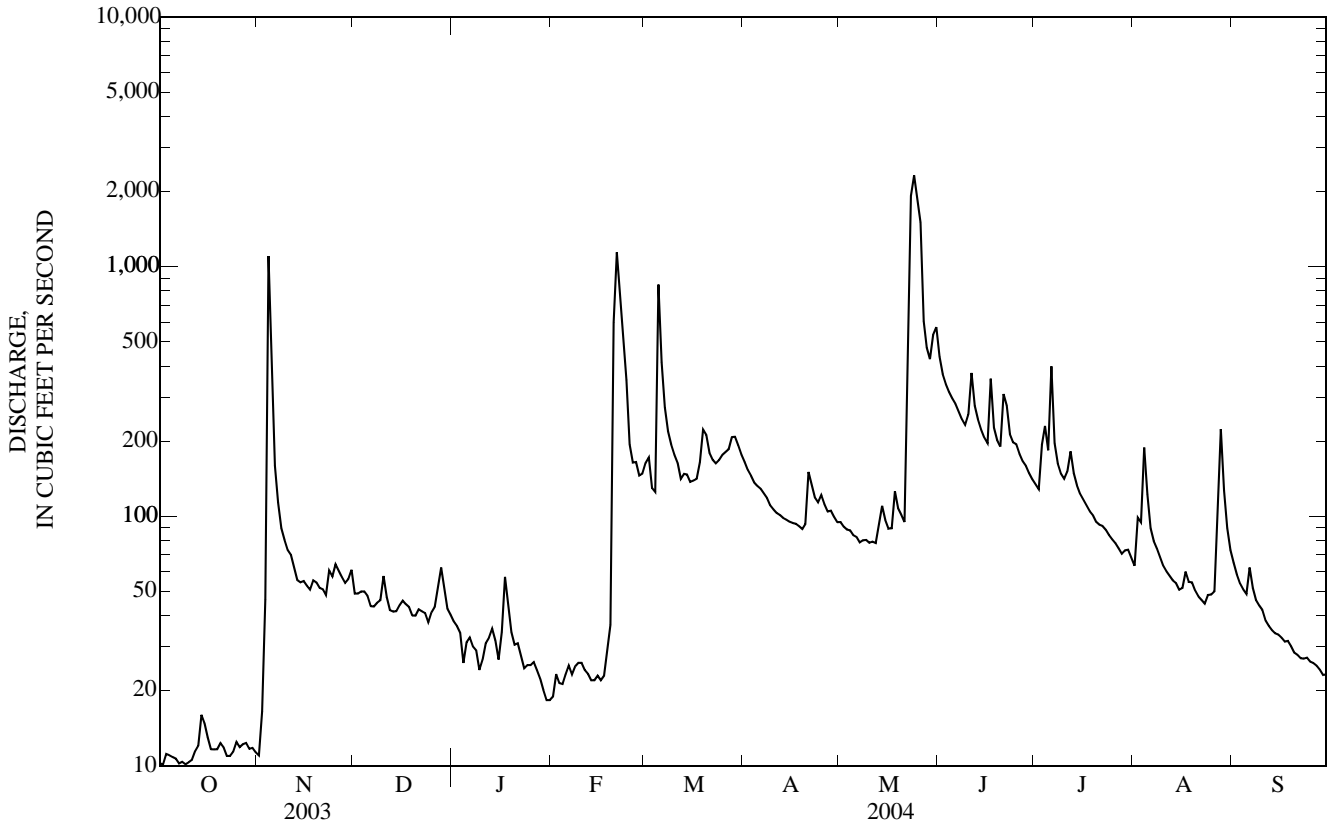
MEAN	64.0	79.1	62.2	68.8	137	258	189	200	264	191	98.7	64.1
MAX	250	425	314	337	607	844	652	573	1,826	1,803	1,157	440
(WY)	(1978)	(1983)	(1983)	(1973)	(1982)	(1993)	(1983)	(1982)	(1947)	(1993)	(1993)	(1993)
MIN	4.85	4.08	2.29	1.14	7.02	11.7	11.0	5.75	7.79	3.84	5.65	5.43
(WY)	(1951)	(1951)	(1977)	(1977)	(1977)	(1954)	(1989)	(1977)	(1977)	(1989)	(1949)	(1950)

05452000 SALT CREEK NEAR ELBERON, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	29,969.4		47,763		140	
ANNUAL MEAN	82.1		130		569	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					1989	
HIGHEST DAILY MEAN	1,320	May 11	2,320	May 24	14,000	Jul 9, 1993
LOWEST DAILY MEAN	6.9	Jan 27	10	Oct 1 a	0.85	Jan 31, 1977
ANNUAL SEVEN-DAY MINIMUM	8.3	Jan 23	10	Oct 4	0.95	Jan 25, 1977
MAXIMUM PEAK FLOW			4,170	May 23	41,800	Jul 9, 1993
MAXIMUM PEAK STAGE			16.64	May 23	20.85	Jul 9, 1993
ANNUAL RUNOFF (AC-FT)	59,440		94,740		101,100	
ANNUAL RUNOFF (CFSM)	0.408		0.649		0.694	
ANNUAL RUNOFF (INCHES)	5.55		8.84		9.43	
10 PERCENT EXCEEDS	204		236		280	
50 PERCENT EXCEEDS	30		68		54	
90 PERCENT EXCEEDS	11		20		9.6	

a Also Oct. 2, 7-10.

e Estimated.



05452200 WALNUT CREEK NEAR HARTWICK, IA

LOCATION.--Lat 41°50'06", long 92°23'10", in SE $\frac{1}{4}$ SW $\frac{1}{4}$ sec.8, T.81 N, R.13 W., Poweshiek County, Hydrologic Unit 07080208, on right bank 5 ft downstream from bridge on county highway V21, 1.2 mi downstream from North Walnut Creek, 4.0 mi northwest of Hartwick, and 6.5 mi upstream from mouth.

DRAINAGE AREA.--70.9 mi².

PERIOD OF RECORD.--October 1949 to current year.

REVISED RECORDS.--WSP 1558: 1950 (P), 1951-57.

GAGE.--Water-stage recorder. Datum of gage is 786.59 ft above NGVD of 1929.

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 June 1947 reached a stage of 17.7 ft, from information by local residents, discharge not determined.

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	2.5	2.8	20	e19	e12	78	78	38	112	36	9.5	117
2	2.3	8.3	19	e18	e13	73	72	34	99	33	45	94
3	2.4	84	21	e17	e12	62	67	33	91	52	33	79
4	2.3	396	20	e16	e11	89	62	33	86	43	133	68
5	2.1	113	21	e16	e12	360	61	31	81	34	50	61
6	2.2	71	19	e20	e14	168	60	30	75	33	34	76
7	2.1	54	20	e19	e12	126	57	28	67	29	27	59
8	2.0	43	21	e18	e12	107	53	29	61	27	23	52
9	1.9	38	24	e16	e13	94	50	27	56	32	20	48
10	2.0	35	48	e18	e13	87	48	31	79	28	17	44
11	2.1	33	e37	e20	e12	77	45	29	80	35	15	40
12	2.3	30	e25	e23	e12	69	43	27	61	34	14	38
13	2.6	27	e23	e23	e11	60	42	33	55	26	12	35
14	6.1	27	e22	e21	e11	59	40	31	52	22	11	33
15	3.9	27	e24	e15	e11	54	39	29	46	20	9.8	32
16	3.6	25	e25	e23	e11	53	38	27	57	19	14	30
17	3.2	24	e24	e53	e12	52	39	33	64	18	14	29
18	2.8	26	e22	e32	e13	82	37	136	48	17	11	29
19	2.6	22	e19	e23	e29	120	35	77	43	16	11	27
20	2.6	21	e18	e19	e275	108	48	65	40	15	9.3	26
21	2.5	19	e20	e21	e124	91	63	57	719	14	8.3	25
22	2.5	19	e16	e16	e89	84	51	89	185	15	7.6	24
23	2.6	33	e13	e13	e67	79	48	369	108	14	6.8	24
24	2.6	28	e16	e15	e49	77	47	179	83	12	8.1	25
25	2.9	33	e27	e14	84	74	49	559	69	11	7.7	23
26	2.8	26	e22	e15	80	76	43	205	59	10	98	23
27	2.7	24	e19	e14	75	76	41	159	52	8.7	2,190	23
28	2.7	23	e21	e13	72	98	41	131	48	7.8	1,540	22
29	2.6	28	e19	e10	74	99	38	118	42	7.8	326	21
30	2.8	26	e19	e9.1	---	92	38	157	38	8.4	204	21
31	2.6	---	e19	e9.4	---	84	---	138	---	7.6	149	---
TOTAL	82.9	1,366.1	683	578.5	1,235	2,908	1,473	2,962	2,756	685.3	5,058.1	1,248
MEAN	2.67	45.5	22.0	18.7	42.6	93.8	49.1	95.5	91.9	22.1	163	41.6
MAX	6.1	396	48	53	275	360	78	559	719	52	2,190	117
MIN	1.9	2.8	13	9.1	11	52	35	27	38	7.6	6.8	21
AC-FT	164	2,710	1,350	1,150	2,450	5,770	2,920	5,880	5,470	1,360	10,030	2,480
CFSM	0.04	0.64	0.31	0.26	0.60	1.32	0.69	1.35	1.30	0.31	2.30	0.59
IN.	0.04	0.72	0.36	0.30	0.65	1.53	0.77	1.55	1.45	0.36	2.65	0.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)

MEAN	18.9	27.1	22.2	24.8	49.7	82.3	74.0	80.4	83.2	54.3	36.8	23.6
MAX	137	171	109	179	191	300	365	452	450	461	498	185
(WY)	(1987)	(1984)	(1993)	(1960)	(1971)	(1993)	(1991)	(1974)	(1990)	(1993)	(1993)	(1993)
MIN	0.00	0.29	0.06	0.01	1.40	1.64	1.03	1.62	0.76	1.01	0.38	0.28
(WY)	(1957)	(1956)	(1977)	(1956)	(1954)	(1954)	(1957)	(1977)	(1956)	(1954)	(1955)	(1953)

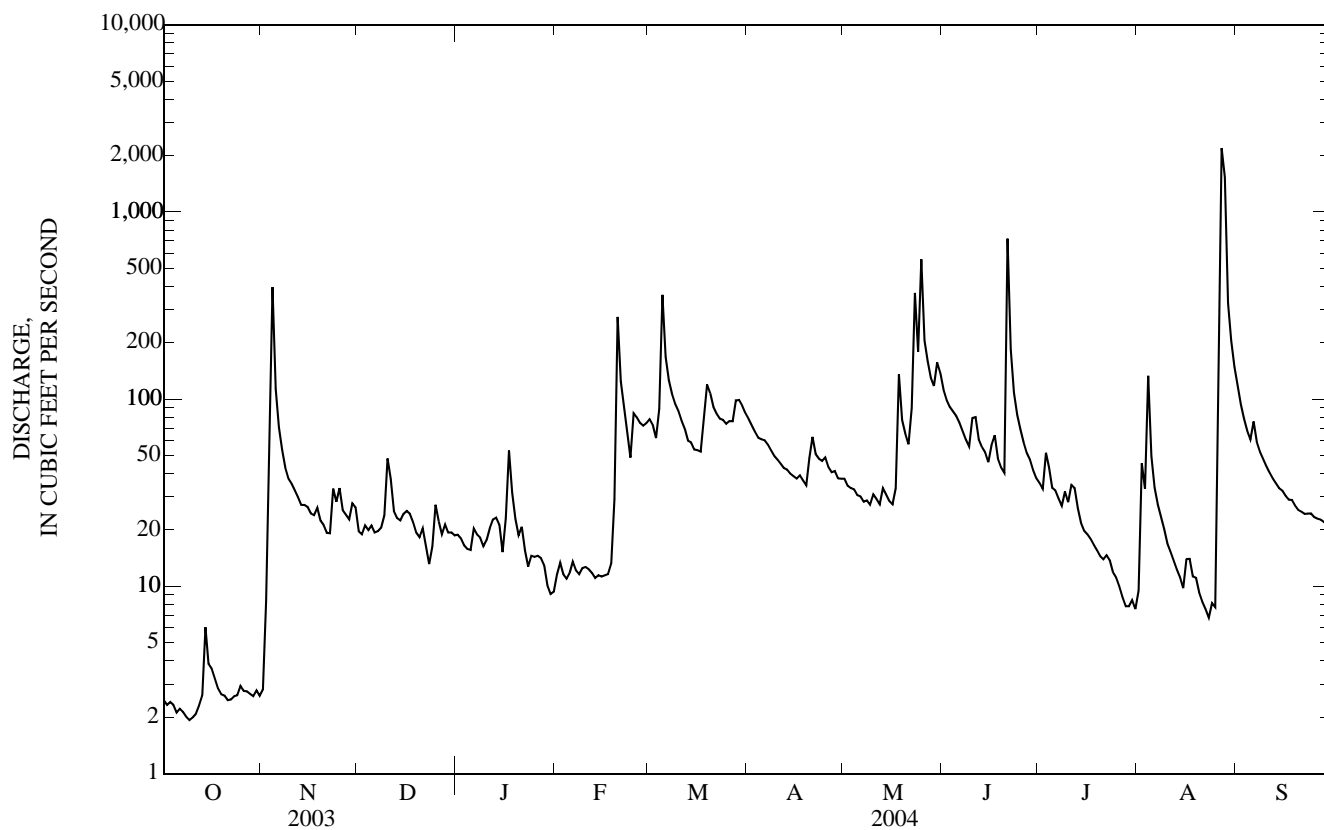
05452200 WALNUT CREEK NEAR HARTWICK, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004	
ANNUAL TOTAL	11,733.8		21,035.9		48.1	
ANNUAL MEAN	32.1		57.5		200	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					1956	
HIGHEST DAILY MEAN	396	Nov 4	2,190	Aug 27	4,840	Jul 2, 1983
LOWEST DAILY MEAN	1.9	Mar 10	1.9	Oct 9	0.00	Jul 31, 1954
ANNUAL SEVEN-DAY MINIMUM	2.1	Oct 5	2.1	Oct 5	0.00	Aug 27, 1955 a
MAXIMUM PEAK FLOW			7,180	Aug 27	7,900	Apr 29, 1991
MAXIMUM PEAK STAGE			15.59	Aug 27	16.93	Apr 29, 1991
INSTANTANEOUS LOW FLOW			1.7	Oct 8 b		
ANNUAL RUNOFF (AC-FT)	23,270		41,720		34,810	
ANNUAL RUNOFF (CFSM)	0.453		0.811		0.678	
ANNUAL RUNOFF (INCHES)	6.16		11.04		9.21	
10 PERCENT EXCEEDS	73		94		102	
50 PERCENT EXCEEDS	13		29		16	
90 PERCENT EXCEEDS	3.1		7.8		1.5	

a Many days in 1954-57 and 1977.

b Also Oct. 9.

e Estimated.



05453000 BIG BEAR CREEK AT LADORA, IA

LOCATION.--Lat 41°44'58", long 92°10'55", in SW¹/₄ SW¹/₄ sec.7, T.80 N., R.11 W., Iowa County, Hydrologic Unit 07080208, on left bank 10 ft downstream from bridge on county highway V52, 0.4 mi south of Ladora, 1.2 mi downstream from Coats Creek, 2.8 mi upstream from Little Bear Creek, and 8.1 mi upstream from mouth.

DRAINAGE AREA.--189 mi².

PERIOD OF RECORD.--October 1945 to current year. Prior to October 1966, published as "Bear Creek at Ladora".

REVISED RECORDS.--WSP 1308: 1947 (M), WSP 1438: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 744.94 ft above NGVD of 1929. Oct. 1945 to June 26, 1946, non-recording gage and June 27, 1946 to Sept. 30, 1980, water-stage recorder at datum 10.00 ft higher.

REMARKS.--Records good except those for periods of estimated daily discharge, 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/dataming2.cfm.

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	12	18	50	e46	e27	119	221	96	356	89	54	142
2	13	28	42	e44	e31	116	200	92	293	85	86	117
3	12	91	44	e41	e27	93	184	89	259	199	94	100
4	12	877	45	e41	e26	123	169	88	234	236	320	88
5	13	394	46	e39	e28	1,230	160	85	215	133	164	81
6	12	198	45	e42	e30	542	153	82	202	122	101	91
7	12	139	43	e36	e28	350	145	76	184	109	83	91
8	11	109	45	e35	e29	261	136	75	167	101	74	72
9	11	93	48	e33	e29	221	126	75	152	248	67	67
10	11	83	100	e33	e30	195	120	74	170	221	61	62
11	13	79	e78	e38	e29	177	115	75	495	148	57	59
12	13	70	e56	e42	e27	149	112	72	212	152	55	56
13	14	58	e54	e40	e25	148	108	80	181	135	51	53
14	17	56	e53	e38	e28	145	106	86	198	116	48	51
15	22	56	e58	e39	e30	133	103	76	196	103	45	49
16	17	53	e64	e66	e27	134	100	72	166	96	45	48
17	15	49	e61	e109	e30	138	102	73	263	99	48	45
18	15	55	e57	e61	e31	189	101	558	178	86	48	44
19	13	49	e50	e47	e35	424	95	294	150	83	47	42
20	13	45	e49	e45	e737	352	100	218	136	81	40	40
21	13	42	e53	e46	e553	262	174	183	215	79	e37	38
22	14	41	e52	e39	e378	228	137	262	321	79	e37	36
23	14	57	e51	e35	e262	211	124	813	174	79	38	36
24	15	61	e44	e35	e174	202	120	543	148	74	42	35
25	16	63	e51	e34	135	187	124	1,660	134	71	45	32
26	17	62	e55	e33	127	209	111	681	121	67	47	31
27	17	52	e73	e31	123	246	101	469	113	61	777	30
28	17	45	120	e29	116	310	102	362	111	57	1,170	29
29	17	57	93	e27	115	330	98	308	103	56	464	28
30	18	72	73	e24	---	283	96	505	95	57	251	29
31	17	---	e55	e25	---	244	---	533	---	56	178	---
TOTAL	446	3,152	1,808	1,273	3,267	7,951	3,843	8,755	5,942	3,378	4,674	1,722
MEAN	14.4	105	58.3	41.1	113	256	128	282	198	109	151	57.4
MAX	22	877	120	109	737	1,230	221	1,660	495	248	1,170	142
MIN	11	18	42	24	25	93	95	72	95	56	37	28
AC-FT	885	6,250	3,590	2,520	6,480	15,770	7,620	17,370	11,790	6,700	9,270	3,420
CFSM	0.08	0.56	0.31	0.22	0.60	1.36	0.68	1.49	1.05	0.58	0.80	0.30
IN.	0.09	0.62	0.36	0.25	0.64	1.56	0.76	1.72	1.17	0.66	0.92	0.34

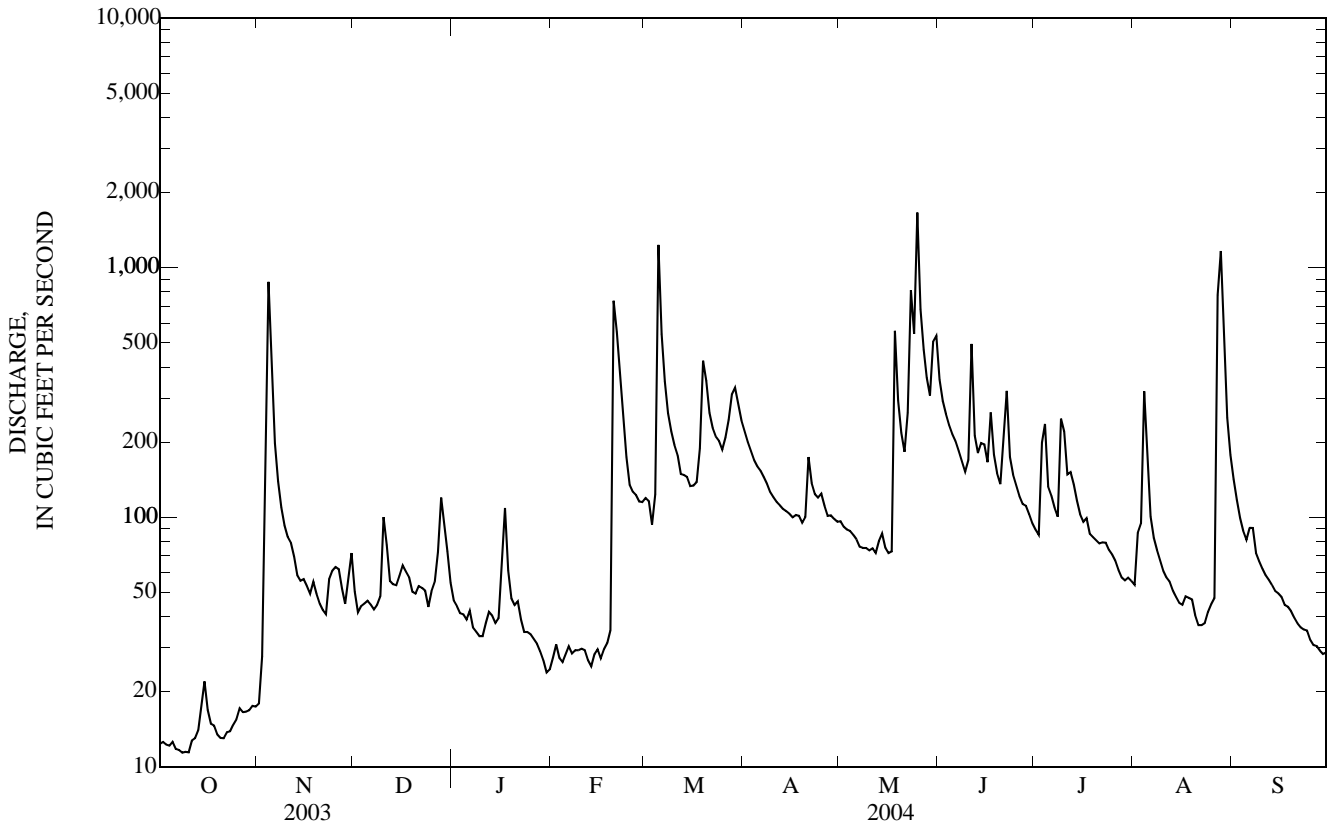
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1946 - 2004, BY WATER YEAR (WY)

MEAN	57.4	72.4	60.4	70.3	121	235	195	218	230	139	89.7	70.5
MAX	375	341	294	432	543	895	704	1,185	1,136	1,011	1,537	559
(WY)	(1987)	(1993)	(1983)	(1960)	(1971)	(1979)	(1973)	(1974)	(1947)	(1993)	(1993)	(1993)
MIN	0.49	1.68	0.33	0.02	2.07	5.99	4.17	2.25	2.94	5.00	2.36	1.34
(WY)	(1957)	(1956)	(1956)	(1977)	(1977)	(1957)	(1956)	(1956)	(1956)	(1988)	(1955)	(1956)

05453000 BIG BEAR CREEK AT LADORA, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1946 - 2004	
ANNUAL TOTAL	32,128		46,211		130	
ANNUAL MEAN	88.0		126		516	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					1956	
HIGHEST DAILY MEAN	1,120	May 9	1,660	May 25	9,480	Mar 30, 1960
LOWEST DAILY MEAN	11	Sep 9	11	Oct 8 a	0.00	Jan 22, 1956 b
ANNUAL SEVEN-DAY MINIMUM	12	Oct 4	12	Oct 4	0.00	Jan 22, 1956
MAXIMUM PEAK FLOW			3,100	May 25	10,500	Mar 30, 1960
MAXIMUM PEAK STAGE			20.20	May 25	15.32	Sep 8, 1977 c
INSTANTANEOUS LOW FLOW			10	Oct 8		
ANNUAL RUNOFF (AC-FT)	63,730		91,660		93,980	
ANNUAL RUNOFF (CFSM)	0.466		0.668		0.686	
ANNUAL RUNOFF (INCHES)	6.32		9.10		9.33	
10 PERCENT EXCEEDS	181		261		279	
50 PERCENT EXCEEDS	46		74		46	
90 PERCENT EXCEEDS	14		27		5.9	

- a Also Oct. 9, 10.
- b Also Jan. 23 to Feb. 8, 1956, Jan. 19 to Feb. 3, 1977.
- c Datum in use prior to Oct. 1, 1980.
- e Estimated.



05453100 IOWA RIVER AT MARENGO, IA

LOCATION.--(revised) Lat 41°48'46", long 92°03'53", in SE $\frac{1}{4}$ NE $\frac{1}{4}$ sec.24, T.81 N., R.11 W., Iowa County, Hydrologic Unit 07080208, on left bank 5 ft upstream from bridge on county highway V66, 1.0 mi downstream from Big Bear Creek, 0.8 mi north of Marengo, 4.6 mi upstream from Hilton Creek, and at mile 139.1.

DRAINAGE AREA.--2,794 mi².

PERIOD OF RECORD.--October 1956 to current year. Monthly discharge only for some periods, published in WSP 1728.

REVISED RECORDS.--WSP 1558: 1957.

GAGE.--Water-stage recorder. Datum of gage is 720.52 ft above NGVD of 1929.

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.

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	270	231	650	660	e357	2,900	3,300	2,020	13,500	2,280	862	1,750
2	268	270	645	707	e363	2,930	3,010	1,900	12,600	2,130	937	1,470
3	270	390	638	727	e365	2,940	2,700	1,780	11,600	2,370	1,150	1,250
4	267	1,900	629	e599	e360	2,840	2,450	1,690	10,800	2,790	1,430	1,110
5	267	4,580	636	e554	e365	4,950	2,260	1,610	9,950	2,320	1,940	1,010
6	268	3,650	640	e515	e363	5,140	2,100	1,540	9,160	2,330	1,950	962
7	266	2,280	637	e487	e366	5,270	1,980	1,490	8,290	2,350	1,820	979
8	265	1,690	623	e455	e363	5,080	1,890	1,430	7,330	2,040	1,520	905
9	272	1,400	630	e430	e367	4,300	1,770	1,390	5,730	2,080	1,300	950
10	273	1,250	719	e419	e364	3,560	1,680	1,360	4,640	2,390	1,160	873
11	277	1,150	e667	e402	e366	3,060	1,590	1,360	5,530	2,470	1,060	798
12	273	1,070	e644	e400	e358	2,590	1,530	1,330	4,560	2,740	978	747
13	277	976	e640	e387	e355	2,300	1,470	1,340	4,300	3,020	913	708
14	286	898	e639	e389	e354	2,120	1,430	1,370	4,210	2,950	861	668
15	270	853	e644	e379	e357	2,000	1,390	1,420	4,200	2,710	818	638
16	269	824	e657	e392	e354	1,900	1,360	1,450	4,030	2,460	794	614
17	259	800	e650	e408	e352	1,820	1,340	1,560	4,020	2,300	818	590
18	248	792	e646	e428	e331	1,850	1,330	2,410	4,010	2,090	779	576
19	245	775	e635	e404	e428	2,250	1,290	2,360	3,800	1,820	906	566
20	251	765	e632	e386	e1,100	2,440	1,270	2,180	3,610	1,620	1,100	556
21	248	733	e640	e376	e1,950	2,380	1,420	2,040	4,200	1,470	1,080	585
22	246	714	e645	e373	e3,210	2,200	1,730	2,230	5,000	1,370	950	647
23	236	749	e640	e363	e3,990	2,050	1,950	3,850	4,350	1,290	856	632
24	231	774	e623	e363	e4,070	2,000	1,830	5,790	3,960	1,230	811	599
25	229	743	e638	e369	e3,870	1,960	1,800	7,130	3,690	1,200	803	564
26	237	743	e653	e362	3,250	1,990	1,790	7,630	3,450	1,170	790	536
27	243	718	e681	e366	2,530	2,120	1,790	10,200	3,180	1,090	4,530	514
28	236	702	e802	e363	2,380	2,290	1,870	13,900	2,930	1,020	6,970	498
29	230	645	786	e363	2,500	2,570	1,970	14,000	2,700	953	4,900	484
30	232	661	759	e363	---	3,220	2,030	14,200	2,480	940	2,950	473
31	233	---	726	e358	---	3,540	---	14,300	---	908	2,170	---
TOTAL	7,942	33,726	20,494	13,547	35,738	88,560	55,320	128,260	171,810	59,901	49,906	23,252
MEAN	256	1,124	661	437	1,232	2,857	1,844	4,137	5,727	1,932	1,610	775
MAX	286	4,580	802	727	4,070	5,270	3,300	14,300	13,500	3,020	6,970	1,750
MIN	229	231	623	358	331	1,820	1,270	1,330	2,480	908	779	473
AC-FT	15,750	66,900	40,650	26,870	70,890	175,700	109,700	254,400	340,800	118,800	98,990	46,120
CFSM	0.09	0.40	0.24	0.16	0.44	1.02	0.66	1.48	2.05	0.69	0.58	0.28
IN.	0.11	0.45	0.27	0.18	0.48	1.18	0.74	1.71	2.29	0.80	0.66	0.31

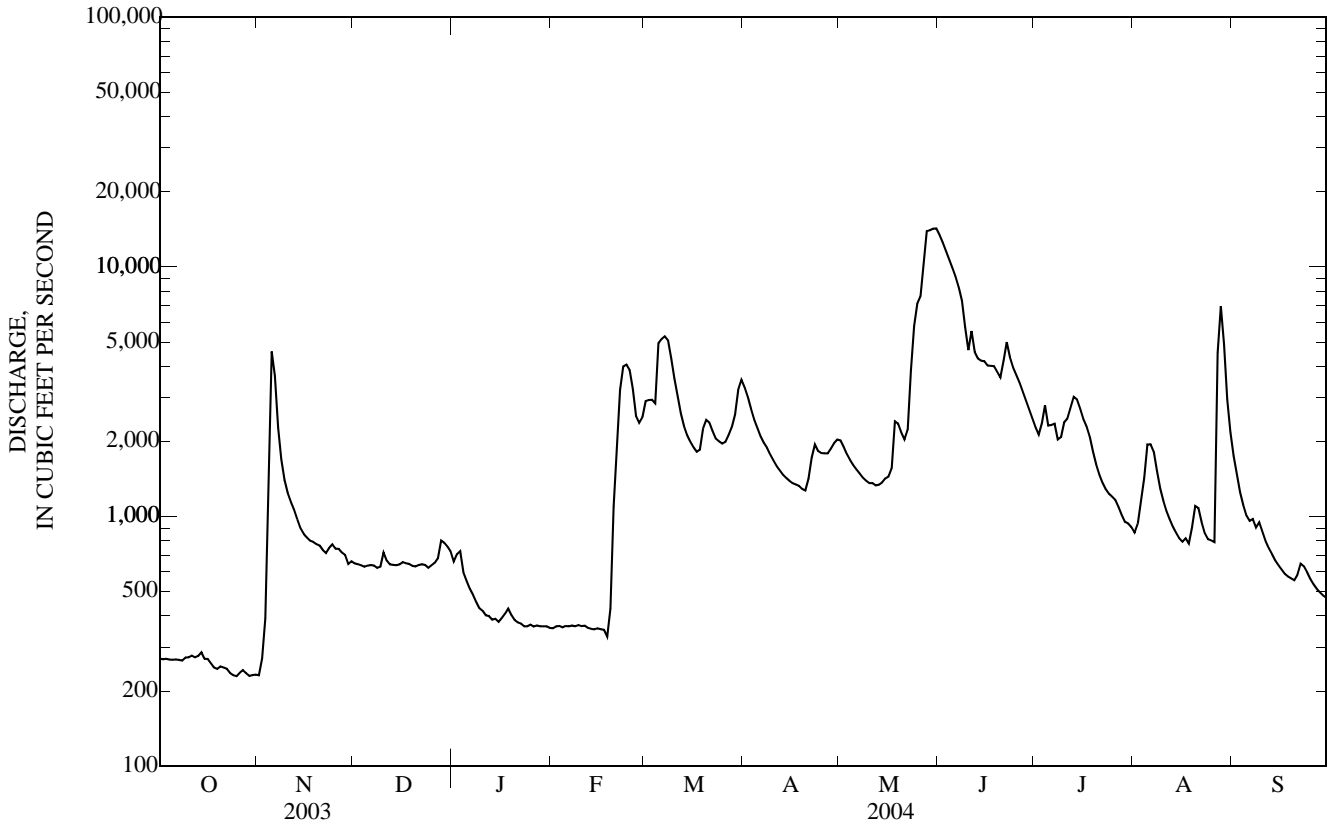
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1957 - 2004, BY WATER YEAR (WY)

MEAN	986	1,123	926	796	1,349	3,080	3,258	3,095	3,438	2,676	1,475	978
MAX	5,078	3,878	3,633	4,194	5,424	8,227	11,310	9,340	9,287	19,620	15,290	7,901
(WY)	(1987)	(1973)	(1983)	(1973)	(1984)	(1979)	(1993)	(1991)	(1998)	(1993)	(1993)	(1993)
MIN	80.8	90.0	63.0	31.3	79.0	256	259	179	114	116	108	123
(WY)	(1957)	(1957)	(1990)	(1977)	(1977)	(1964)	(1977)	(1977)	(1977)	(1977)	(1989)	(1988)

05453100 IOWA RIVER AT MARENGO, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1957 - 2004	
ANNUAL TOTAL	490,025		688,456			
ANNUAL MEAN	1,343		1,881		1,933	
HIGHEST ANNUAL MEAN					7,192	1993
LOWEST ANNUAL MEAN					283	1989
HIGHEST DAILY MEAN	8,820	May 15	14,300	May 31	35,600	Jul 12, 1993
LOWEST DAILY MEAN	196	Jan 25	229	Oct 25	24	Jan 29, 1977
ANNUAL SEVEN-DAY MINIMUM	200	Jan 24	234	Oct 24	25	Jan 28, 1977
MAXIMUM PEAK FLOW			14,600	May 31	38,000	Jul 19, 1993
MAXIMUM PEAK STAGE			17.97	May 31	20.31	Jul 19, 1993
INSTANTANEOUS LOW FLOW			223	Oct 25 a		
ANNUAL RUNOFF (AC-FT)	972,000		1,366,000		1,400,000	
ANNUAL RUNOFF (CFSM)	0.481		0.673		0.692	
ANNUAL RUNOFF (INCHES)	6.52		9.17		9.40	
10 PERCENT EXCEEDS	3,350		4,040		4,840	
50 PERCENT EXCEEDS	650		1,100		982	
90 PERCENT EXCEEDS	243		354		214	

a Also Oct. 26.
e Estimated.



05453510 CORALVILLE LAKE NEAR CORALVILLE, IA

LOCATION.--Lat 41°43'29", long 91°31'40", in SW¹/₄ NE¹/₄ sec.22, T.80 N., R.6 W., Johnson County, Hydrologic Unit 07080208, at outlet works at left end of Coralville Dam on Iowa River, 2.3 mi upstream from Rapid Creek, 4.3 mi northeast of Coralville post office, and at mile 83.3.

DRAINAGE AREA.--3,115 mi².

PERIOD OF RECORD.--October 1958 to current year.

GAGE.--Water-stage recorder. Datum of gage is at NGVD of 1929 (levels by U.S. Army Corps of Engineers).

REMARKS.--Reservoir is formed by earthfill dam completed in 1957. Storage began in September 1958. Releases controlled by three gates, 8.33 ft wide and 20 ft high, into forechamber of 23-ft diameter concrete conduit through dam. Inlet invert elevation at 646.0 ft. No dead storage. Maximum design discharge through gates is 20,000 ft³/s. Ungated spillway is concrete overflow section 500 ft in length at elevation 712 ft above sea level, contents, 469,000 acre-ft, surface area, 24,800 acres. Reservoir is used for flood control, low-flow augmentation, conservation and recreation. Normal operation will lower the elevation from 683 ft. (surface area 5,430 acres) on Feb. 15 to 679 ft (surface area 3,270 acres) on Mar 1, maintaining 679 ft. Mar. 1 to June 15, 683 ft June 15 to Sept. 15, 686 ft. (surface area 7,000 acres) Sept. 15 to Dec. 15, and 683 ft Dec. 15 to Feb. 15, with a minimum release of 150 ft³/s and maximum release of 10,000 ft³/s Dec. 15 to May 1 and 6,000 ft³/s May 1 to Dec. 15. Prior to October 1, 2000 published as contents in acre feet, and as elevation in feet NGVD thereafter.

COOPERATION.--Records provided by U.S. Army Corps of Engineers.

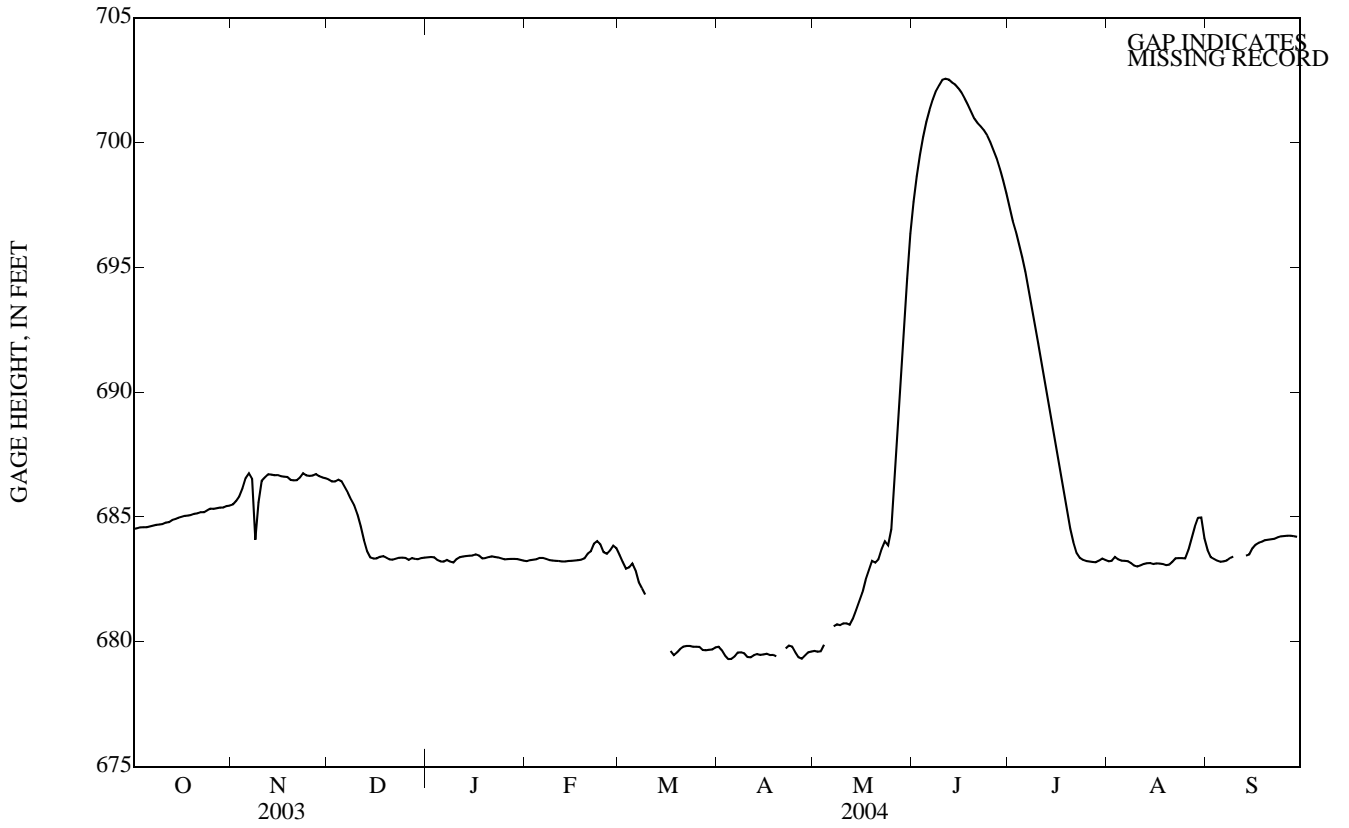
EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 716.71 ft July 24, 1993; minimum elevation, 658.77 ft Mar. 10, 1959.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 902.57 ft on June 11; minimum elevation, 679.28 ft on Apr. 5.

ELEVATION ABOVE NGVD 1929, FEET
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004
DAILY OBSERVATION AT 0600 HOURS

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	684.50	685.45	686.54	683.37	683.24	683.70	679.80	679.61	696.75	697.84	683.25	683.88
2	684.53	685.51	686.48	683.39	683.22	683.40	679.80	679.64	697.91	697.28	683.21	683.60
3	684.55	685.68	686.40	683.40	683.28	683.12	679.61	679.59	698.89	696.72	683.25	683.32
4	684.59	685.87	686.43	683.38	683.29	682.86	679.39	679.63	699.71	696.33	683.44	683.32
5	684.59	686.24	686.51	683.24	683.31	683.02	679.28	679.96	700.40	695.80	683.25	683.22
6	684.59	686.67	686.40	683.21	683.37	683.17	679.32	---	700.97	695.28	683.25	683.20
7	684.63	686.77	686.13	683.21	683.35	682.75	679.44	680.50	701.42	694.66	683.24	683.23
8	684.66	686.44	685.91	683.29	683.31	682.26	679.61	680.66	701.81	693.96	683.22	683.26
9	684.69	683.30	685.62	683.18	683.26	682.10	679.56	680.71	702.14	693.21	683.13	683.38
10	684.70	686.34	685.40	683.17	683.25	681.82	679.53	680.65	702.34	692.51	683.02	683.42
11	684.72	686.48	684.99	683.36	683.24	---	679.34	680.76	702.57	691.77	683.01	---
12	684.79	686.62	684.50	683.40	683.23	---	679.39	680.73	702.55	691.15	683.07	---
13	684.79	686.74	683.93	683.42	683.21	---	679.48	680.66	702.51	690.46	683.13	683.49
14	684.90	686.68	683.52	683.44	683.22	---	679.51	681.01	702.37	689.79	683.15	683.43
15	684.92	686.67	683.33	683.45	683.24	---	679.46	681.34	702.31	689.06	683.15	683.51
16	684.98	686.68	683.33	683.45	683.24	---	679.50	681.71	702.13	688.27	683.10	683.82
17	685.01	686.62	683.34	683.51	683.26	679.89	679.52	682.07	701.95	687.39	683.15	683.91
18	685.05	686.61	683.42	683.43	683.27	679.54	679.45	682.62	701.70	686.55	683.13	683.98
19	685.06	686.60	683.43	683.31	683.29	679.43	679.48	682.95	701.45	685.79	683.11	684.01
20	685.09	686.45	683.35	683.36	683.35	679.61	679.39	683.34	701.16	685.06	683.05	684.09
21	685.14	686.47	683.28	683.40	683.58	679.74	---	683.11	700.89	684.37	683.10	684.09
22	685.15	686.47	683.29	683.43	683.63	679.83	679.70	683.37	700.74	683.86	683.24	684.11
23	685.20	686.61	683.34	683.38	684.03	679.83	679.74	683.83	700.61	683.45	683.38	684.13
24	685.19	686.79	683.37	683.37	684.03	679.83	679.88	684.09	700.45	683.33	683.34	684.20
25	685.29	686.62	683.37	683.33	683.86	679.79	679.78	683.79	700.24	683.26	683.35	684.23
26	685.34	686.65	683.35	683.29	683.50	679.80	679.51	684.75	699.94	683.23	683.33	684.24
27	685.32	686.66	683.26	683.32	683.53	679.79	679.33	686.64	699.61	683.21	683.79	684.25
28	685.36	686.73	683.38	683.32	683.70	679.63	679.31	688.48	699.28	683.19	684.26	684.25
29	685.38	686.60	683.30	683.32	683.90	679.67	679.49	690.21	698.83	683.18	684.72	684.22
30	685.37	686.57	683.31	683.31	---	679.68	679.60	692.72	698.36	683.27	685.05	684.20
31	685.45	---	683.36	683.27	---	679.69	---	695.16	---	683.35	684.95	---
MEAN	684.95	686.35	684.37	683.35	683.42	---	---	---	700.73	688.92	683.41	---
MAX	685.45	686.79	686.54	683.51	684.03	---	---	---	702.57	697.84	685.05	---
MIN	684.50	683.30	683.26	683.17	683.21	---	---	---	696.75	683.18	683.01	---

05453510 CORALVILLE LAKE NEAR CORALVILLE, IA—Continued



05453520 IOWA RIVER BELOW CORALVILLE DAM NEAR CORALVILLE, IA

LOCATION.--(revised)Lat 41°43'19", long 91°31'41", in SW¹/₄ NE¹/₄ sec.22, T.80 N., R.6 W., Johnson County, Hydrologic Unit 07080208, on left bank about 500 ft downstream of Coralville Dam control house, 2.3 miles upstream from Rapid Creek, 4.3 miles northeast of Coralville post office, and at mile 83.2.

DRAINAGE AREA.--3,115 mi².

PERIOD OF RECORD.--October 1992 to current year.

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

REMARKS.--Records good. U.S. Army Corps of Engineers data collection platform with satellite telemetry at station.

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	145	196	781	775	472	4,260	3,870	2,370	5,680	5,870	1,130	4,430
2	191	284	857	779	414	4,080	3,950	2,370	5,940	5,840	1,030	2,970
3	184	309	781	769	346	3,980	3,750	2,170	5,900	5,870	1,070	2,180
4	182	239	689	758	343	4,010	3,390	1,630	5,960	5,930	1,810	1,800
5	169	1,330	970	499	342	5,140	3,010	1,320	6,000	5,960	2,120	1,640
6	160	3,360	1,460	227	417	6,270	2,630	1,240	6,040	5,950	2,220	1,370
7	153	3,630	1,610	161	488	6,580	2,410	1,450	5,970	5,880	2,290	1,160
8	147	2,910	1,730	277	490	6,260	2,340	1,630	5,930	5,870	2,280	994
9	145	1,840	1,950	457	465	6,030	2,330	1,670	5,940	5,900	2,070	1,000
10	145	1,220	2,180	525	431	5,670	2,310	1,700	6,090	5,830	1,600	1,090
11	155	909	2,210	531	429	5,420	1,970	1,700	6,070	5,770	1,110	1,090
12	156	1,020	2,190	559	423	4,430	1,700	1,700	6,010	5,810	908	1,080
13	155	1,080	1,840	673	401	3,490	1,640	1,350	5,990	5,830	905	1,080
14	171	1,090	1,260	675	363	3,170	1,660	808	6,100	5,830	895	878
15	163	1,090	833	674	362	3,000	1,580	708	6,020	5,810	896	698
16	165	1,090	716	675	362	2,990	1,530	719	5,980	5,750	840	554
17	154	1,090	705	1,020	359	3,050	1,530	739	5,960	5,440	868	461
18	158	1,150	699	1,200	360	2,870	1,560	1,220	5,930	4,920	935	459
19	154	1,210	775	896	362	2,730	1,510	1,880	5,910	4,460	930	457
20	157	1,000	804	676	840	2,810	1,420	2,770	5,890	3,950	930	518
21	165	812	698	680	1,810	2,890	1,610	2,450	5,970	3,460	815	580
22	191	737	625	668	2,550	2,890	1,620	2,360	5,910	3,000	728	669
23	192	1,070	615	668	3,470	2,890	1,860	3,150	5,870	2,220	851	787
24	190	1,140	617	661	4,060	2,910	2,420	4,730	5,860	1,760	984	784
25	202	932	615	656	4,230	2,950	2,600	5,070	5,870	1,560	990	783
26	198	784	731	568	3,810	3,250	2,490	2,180	5,870	1,420	979	782
27	196	784	837	488	3,490	3,110	2,180	846	5,850	1,330	e2,150	780
28	204	839	1,310	489	3,490	3,080	1,930	844	5,920	1,220	e5,190	776
29	195	835	1,240	481	3,970	3,000	1,970	1,350	5,950	1,080	e6,130	779
30	195	786	840	479	---	e3,080	2,260	2,720	5,900	997	e5,980	736
31	195	---	781	477	---	3,700	---	4,780	---	1,090	5,940	---
TOTAL	5,332	34,766	33,949	19,121	39,349	119,990	67,030	61,624	178,280	131,607	57,574	33,365
MEAN	172	1,159	1,095	617	1,357	3,871	2,234	1,988	5,943	4,245	1,857	1,112
MAX	204	3,630	2,210	1,200	4,230	6,580	3,950	5,070	6,100	5,960	6,130	4,430
MIN	145	196	615	161	342	2,730	1,420	708	5,680	997	728	457
AC-FT	10,580	68,960	67,340	37,930	78,050	238,000	133,000	122,200	353,600	261,000	114,200	66,180
CFSM	0.06	0.37	0.35	0.20	0.44	1.24	0.72	0.64	1.91	1.36	0.60	0.36
IN.	0.06	0.42	0.41	0.23	0.47	1.43	0.80	0.74	2.13	1.57	0.69	0.40

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1993 - 2004, BY WATER YEAR (WY)

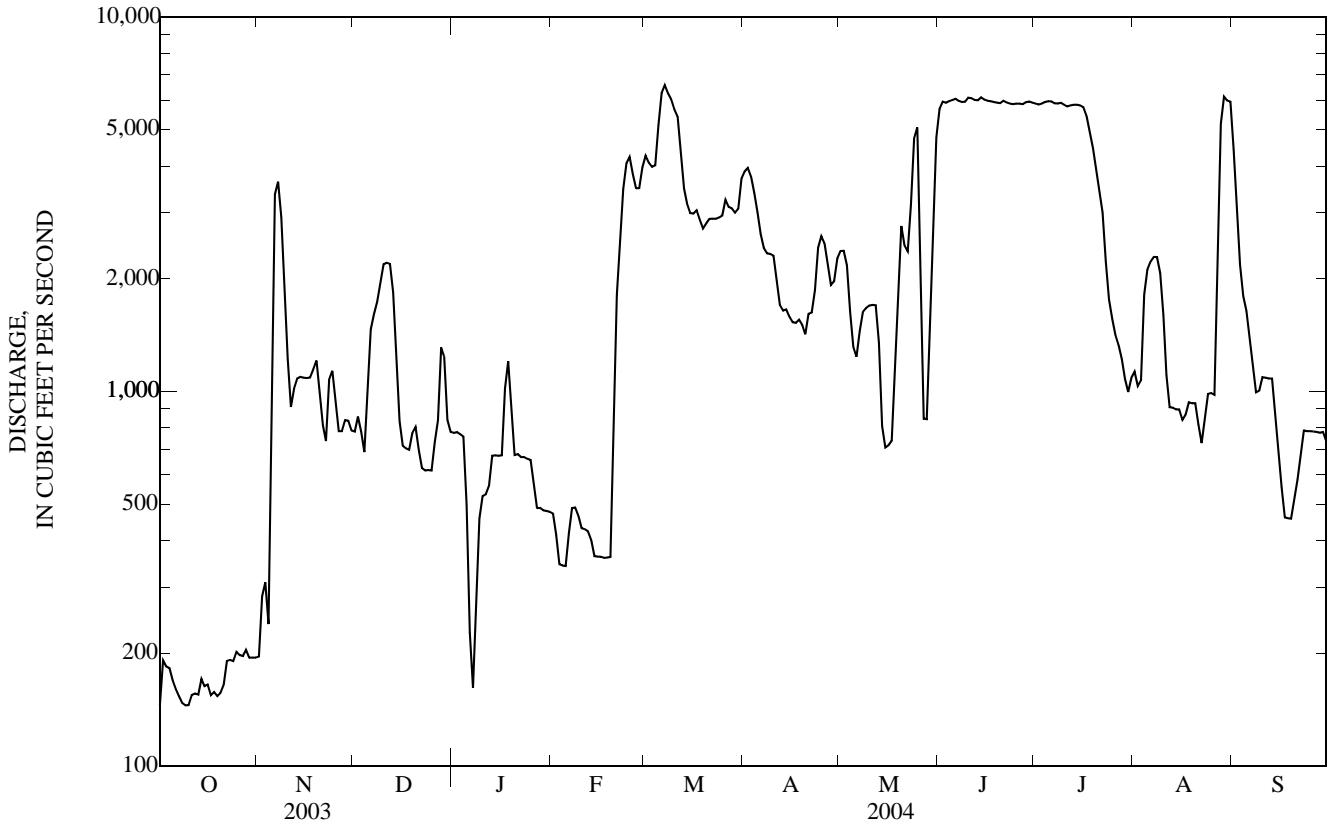
MEAN	1,050	1,110	1,258	703	1,604	3,014	3,151	3,882	4,566	4,973	2,750	1,568
MAX	4,012	2,771	4,229	1,723	3,006	6,587	7,776	9,347	7,203	20,610	18,500	13,050
(WY)	(1994)	(1993)	(1993)	(1993)	(1997)	(1993)	(1993)	(1993)	(1993)	(1993)	(1993)	(1993)
MIN	172	156	230	231	346	426	445	412	2,334	1,389	581	241
(WY)	(2004)	(2000)	(2000)	(2000)	(2003)	(2000)	(2000)	(2000)	(2003)	(2002)	(1997)	(2003)

05453520 IOWA RIVER BELOW CORALVILLE DAM NEAR CORALVILLE, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1993 - 2004	
ANNUAL TOTAL	513,495		781,987			
ANNUAL MEAN	1,407		2,137		2,474	
HIGHEST ANNUAL MEAN					7,910 1993	
LOWEST ANNUAL MEAN					866 2000	
HIGHEST DAILY MEAN	6,130	May 15	6,580	Mar 7	25,000	Jul 21, 1993
LOWEST DAILY MEAN	145	Oct 1	145	Oct 1 a	129	Oct 26, 1999
ANNUAL SEVEN-DAY MINIMUM	151	Oct 7	151	Oct 7	141	Oct 23, 1999
MAXIMUM PEAK FLOW			6,650	Mar 7	25,800	Jul 19, 1993
MAXIMUM PEAK STAGE			54.50	Mar 7	63.95	Jul 19, 1993
ANNUAL RUNOFF (AC-FT)	1,019,000		1,551,000		1,793,000	
ANNUAL RUNOFF (CFSM)	0.452		0.686		0.794	
ANNUAL RUNOFF (INCHES)	6.13		9.34		10.79	
10 PERCENT EXCEEDS	3,790		5,870		6,060	
50 PERCENT EXCEEDS	712		1,250		1,260	
90 PERCENT EXCEEDS	192		282		273	

a Also Oct. 9, 10.

e Estimated.



05453600 RAPID CREEK BELOW MORSE, IA—Continued

