

## 05454000 RAPID CREEK NEAR IOWA CITY, IA

LOCATION.--Lat 41°42'00", long 91°29'15", in NE<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec.36, T.80 N., R.6 W., Johnson County, Hydrologic Unit 07080209, on left bank 80 ft upstream from bridge on State Highway 1, 3.5 mi northeast of Iowa City, and 4.7 mi upstream from mouth.

DRAINAGE AREA.--25.3 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1937 to current year. Monthly discharge only for some periods, published in WSP 1308.

REVISED RECORDS.--WSP 1558: 1941 (M), 1943 (P), 1944 (M), 1946. WSP 1708: 1951 (P), 1952. WDR IA-67-1: Drainage area.

GAGE.--Water-stage recorder and concrete control with sharp-crested weir. Datum of gage is 673.72 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. U.S. Geological Survey data collection platform with telephone modem, and 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](http://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	0.10	0.47	6.5	12	e3.2	22	40	16	47	15	5.9	15
2	0.09	6.6	5.7	12	e3.6	21	36	15	39	14	5.9	13
3	0.08	17	6.2	11	e3.2	18	32	14	33	21	6.5	11
4	0.08	12	5.7	8.7	e3.0	63	29	14	29	22	19	9.7
5	0.09	6.9	6.3	e7.3	e3.7	247	27	13	27	25	10	8.5
6	0.13	4.7	5.5	e8.6	e4.4	79	25	12	25	39	7.3	7.8
7	0.14	3.4	5.3	e6.5	e4.1	61	23	13	22	23	6.4	6.7
8	0.14	2.6	5.8	e5.6	5.2	49	22	12	20	19	5.8	6.2
9	0.18	2.0	6.6	e5.0	5.6	41	20	11	18	32	5.0	5.7
10	0.23	2.2	51	e5.0	5.3	36	19	14	37	25	4.4	5.2
11	0.32	2.5	e35	e6.6	4.8	31	18	14	50	23	4.4	4.7
12	0.19	1.9	e24	e7.6	4.5	28	17	12	30	22	4.2	4.4
13	0.17	1.4	22	e7.3	4.0	25	16	13	25	18	3.7	4.1
14	0.60	1.2	20	e6.4	3.9	31	16	12	175	15	3.5	4.1
15	0.60	1.4	17	e4.6	4.0	28	15	12	61	14	3.0	13
16	0.72	1.5	16	e6.9	3.3	29	15	11	43	13	3.1	13
17	0.59	1.4	13	e14	3.4	31	14	11	36	12	4.1	7.4
18	0.68	1.9	13	e8.9	4.0	46	13	26	31	11	4.1	5.7
19	0.41	1.8	10	e6.7	6.0	47	12	21	27	10	4.1	4.6
20	0.31	1.3	e8.9	e5.8	e58	41	28	19	24	9.6	2.8	4.0
21	0.37	1.2	11	e6.4	e94	34	53	17	80	9.1	2.4	3.6
22	0.51	1.2	11	e5.4	e42	31	34	39	49	9.6	2.0	3.4
23	0.44	44	11	e4.8	e50	29	28	103	35	9.0	1.8	3.1
24	0.39	30	e4.7	e4.9	45	40	26	57	29	8.2	3.0	3.0
25	0.56	20	9.0	e4.9	27	39	25	76	26	7.9	3.9	2.7
26	0.54	15	9.2	e4.7	25	195	22	51	23	7.2	4.5	2.5
27	0.55	12	10	e4.3	20	100	20	42	21	6.7	29	2.5
28	0.50	9.8	19	e2.8	18	77	19	35	19	6.2	133	2.3
29	0.50	8.5	17	e1.0	19	63	17	31	17	6.7	49	2.1
30	0.47	8.3	14	e1.2	---	53	16	66	16	10	27	2.0
31	0.47	---	13	e2.2	---	46	---	72	---	7.4	19	---
TOTAL	11.15	224.17	412.4	199.1	477.2	1,681	697	874	1,114	470.6	387.8	181.0
MEAN	0.36	7.47	13.3	6.42	16.5	54.2	23.2	28.2	37.1	15.2	12.5	6.03
MAX	0.72	44	51	14	94	247	53	103	175	39	133	15
MIN	0.08	0.47	4.7	1.0	3.0	18	12	11	16	6.2	1.8	2.0
AC-FT	22	445	818	395	947	3,330	1,380	1,730	2,210	933	769	359
CFSM	0.01	0.30	0.53	0.25	0.65	2.14	0.92	1.11	1.47	0.60	0.49	0.24
IN.	0.02	0.33	0.61	0.29	0.70	2.47	1.02	1.29	1.64	0.69	0.57	0.27

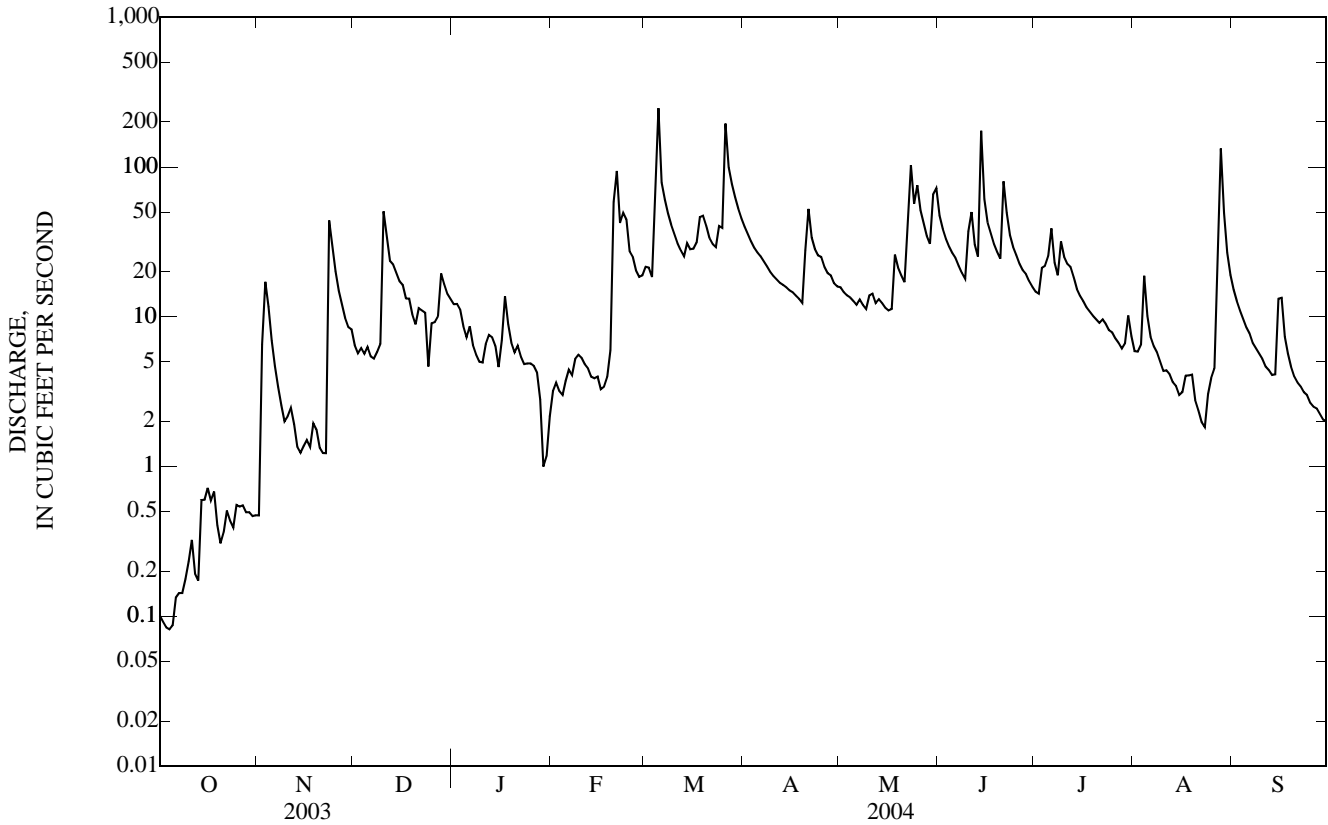
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2004, BY WATER YEAR (WY)

	7.58	10.0	8.87	9.35	22.1	29.1	24.2	27.6	25.7	15.7	11.6	7.69
MEAN	83.5	84.0	66.6	56.8	77.5	106	98.6	167	134	105	176	66.6
(WY)	(1999)	(1993)	(1983)	(1946)	(1953)	(1979)	(1973)	(1974)	(1990)	(1969)	(1993)	(1965)
MIN	0.00	0.00	0.00	0.00	0.22	0.42	1.25	1.13	0.21	0.00	0.03	0.00
(WY)	(1954)	(1956)	(1956)	(1940)	(1989)	(1956)	(1956)	(1977)	(1956)	(1957)	(1955)	(1955)

05454000 RAPID CREEK NEAR IOWA CITY, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1938 - 2004	
ANNUAL TOTAL	3,106.09		6,729.42		16.6	
ANNUAL MEAN	8.51		18.4		63.8	
HIGHEST ANNUAL MEAN					1.09	
LOWEST ANNUAL MEAN					1957	
HIGHEST DAILY MEAN	157	May 9	247	Mar 5	1,720	May 17, 1986
LOWEST DAILY MEAN	0.02	Sep 12	0.08	Oct 3 a	0.00	Manyyears
ANNUAL SEVEN-DAY MINIMUM	0.07	Sep 6	0.10	Oct 1	0.00	Manyyears
MAXIMUM PEAK FLOW			619	Mar 5	6,700	Aug 10, 1993
MAXIMUM PEAK STAGE			8.59	Mar 5	15.61	Aug 10, 1993
INSTANTANEOUS LOW FLOW			0.07	Oct 2		
ANNUAL RUNOFF (AC-FT)	6,160		13,350		12,000	
ANNUAL RUNOFF (CFSM)	0.336		0.727		0.655	
ANNUAL RUNOFF (INCHES)	4.57		9.89		8.90	
10 PERCENT EXCEEDS	18		42		35	
50 PERCENT EXCEEDS	4.1		11		5.1	
90 PERCENT EXCEEDS	0.34		1.2		0.10	

a Also Oct. 4.  
e Estimated.



## 05454220 CLEAR CREEK NEAR OXFORD, IA

LOCATION.--Lat 41°43'06", long 91°44'24", in SW $\frac{1}{4}$  SE $\frac{1}{4}$  SE $\frac{1}{4}$  sec.23, T.80 N., R.8 W., Johnson County, Hydrologic Unit 07080209, on left bank 15 ft. downstream of bridge on NW Eagle Avenue, 0.2 miles west of Kent Park, 2.6 miles upstream of Buffalo Creek, 2.8 miles east of Oxford, and 4.2 miles west of Tiffin.

DRAINAGE AREA.--58.4 mi<sup>2</sup>.

PERIOD OF RECORD.--November 1993 to current year.

GAGE.--Water stage recorder. Datum of gage is 696.50 ft., above NGVD of 1929.

REMARKS.--Records good except for 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.

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	0.70	0.84	8.0	25	e10	49	64	26	143	19	9.7	46
2	0.67	5.4	7.9	25	e12	47	58	25	107	18	12	37
3	0.68	26	7.7	23	e10	41	54	24	89	29	13	31
4	0.73	28	8.3	21	e9.6	70	50	24	78	32	38	26
5	0.74	19	8.4	e19	e11	661	47	23	71	24	27	23
6	0.76	10	e8.3	e22	e13	215	45	22	65	24	17	26
7	0.79	6.8	7.8	e20	e11	142	43	20	58	21	14	22
8	0.77	6.0	8.5	e18	e12	108	40	21	52	19	12	17
9	0.71	6.3	10	e16	e14	91	37	20	48	34	11	16
10	0.69	5.5	33	e15	e13	81	35	22	56	37	7.5	14
11	0.72	5.6	e25	e18	e11	68	33	21	57	30	7.5	13
12	0.83	4.8	e17	e21	e10	61	32	20	47	34	7.4	12
13	0.91	3.6	e15	e20	e9.2	58	31	21	43	26	6.6	12
14	2.7	3.9	e13	e18	e10	62	30	21	45	21	6.9	11
15	2.0	4.0	e15	e12	e9.6	56	30	19	40	19	5.2	12
16	1.6	4.1	e17	e24	e10	57	29	18	37	17	5.3	11
17	1.2	4.5	e16	e45	e11	59	28	19	36	15	8.0	10
18	0.97	5.6	e14	e30	e14	91	27	33	33	14	5.6	9.7
19	0.94	5.6	e11	e22	e27	148	26	26	32	14	7.0	9.0
20	0.90	4.5	e10	e18	e182	110	31	24	30	13	6.1	8.4
21	0.85	4.3	e14	e21	e302	84	52	23	32	13	5.2	8.2
22	0.84	4.0	e13	e16	e200	75	37	102	30	14	4.6	8.0
23	0.85	32	e11	e14	e134	69	33	215	27	14	3.4	7.5
24	2.2	27	e5.7	e14	e95	73	32	136	26	13	4.2	7.8
25	e3.1	17	e10	e14	71	68	33	185	26	12	5.8	7.4
26	e1.5	14	e13	e13	53	104	31	125	24	12	7.3	7.1
27	0.89	12	16	e12	49	102	29	96	23	11	621	6.9
28	0.87	10	65	e11	45	99	29	77	23	11	704	6.4
29	0.85	12	45	e9.7	45	89	27	67	21	10	217	6.0
30	0.85	11	33	e9.0	---	80	26	195	20	12	101	6.2
31	0.85	---	29	e9.4	---	71	---	279	---	11	62	---
TOTAL	33.66	303.34	515.6	575.1	1,403.4	3,189	1,099	1,949	1,419	593	1,962.3	437.6
MEAN	1.09	10.1	16.6	18.6	48.4	103	36.6	62.9	47.3	19.1	63.3	14.6
MAX	3.1	32	65	45	302	661	64	279	143	37	704	46
MIN	0.67	0.84	5.7	9.0	9.2	41	26	18	20	10	3.4	6.0
AC-FT	67	602	1,020	1,140	2,780	6,330	2,180	3,870	2,810	1,180	3,890	868
CFSM	0.02	0.17	0.28	0.32	0.83	1.76	0.63	1.08	0.81	0.33	1.08	0.25
IN.	0.02	0.19	0.33	0.37	0.89	2.03	0.70	1.24	0.90	0.38	1.25	0.28

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)

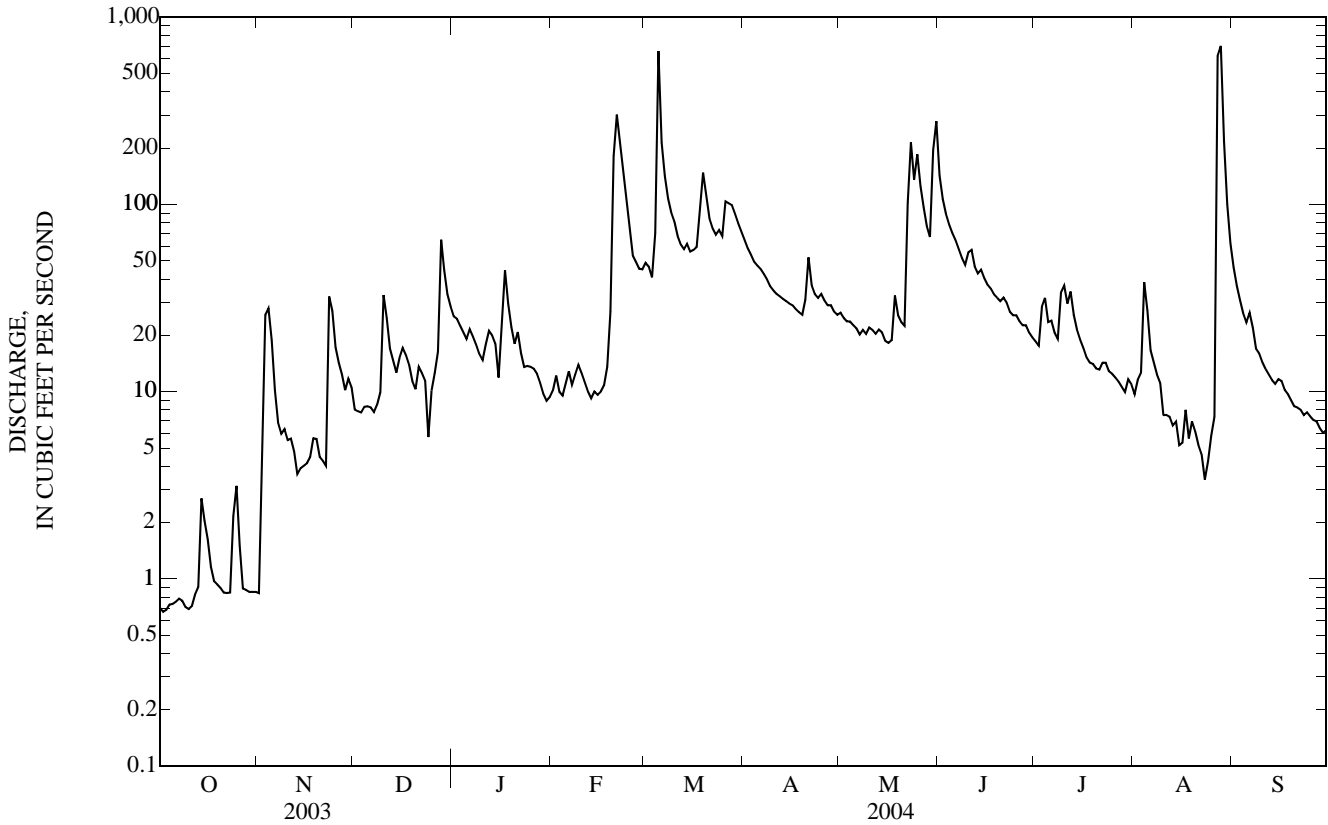
MEAN	23.3	16.6	10.9	14.7	46.6	53.0	52.8	91.7	68.2	29.5	18.5	7.70
MAX	153	74.4	28.1	35.2	129	152	113	269	120	77.0	63.3	29.4
(WY)	(1999)	(1999)	(1999)	(1998)	(2001)	(2001)	(1998)	(1996)	(2001)	(2000)	(2004)	(1998)
MIN	1.09	2.30	2.07	3.04	6.00	5.71	8.16	15.0	17.5	10.4	2.94	1.35
(WY)	(2004)	(2000)	(2000)	(2000)	(2000)	(2000)	(1996)	(2000)	(2003)	(1997)	(2003)	(1999)

05454220 CLEAR CREEK NEAR OXFORD, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1995 - 2004	
ANNUAL TOTAL	4,728.06		13,480.00		36.0	
ANNUAL MEAN	13.0		36.8		56.4	
HIGHEST ANNUAL MEAN					1999	
LOWEST ANNUAL MEAN					2003	
HIGHEST DAILY MEAN	141	May 9	704	Aug 28	2,400	May 10, 1996
LOWEST DAILY MEAN	0.67	Oct 2	0.67	Oct 2	0.67	Oct 2, 2003
ANNUAL SEVEN-DAY MINIMUM	0.71	Sep 28	0.72	Oct 1	0.71	Sep 28, 2003
MAXIMUM PEAK FLOW			867	Mar 5	4,230	May 10, 1996
MAXIMUM PEAK STAGE			10.77	Mar 5	14.89	May 10, 1996
INSTANTANEOUS LOW FLOW			0.62	Oct 2 a		
ANNUAL RUNOFF (AC-FT)	9,380		26,740		26,100	
ANNUAL RUNOFF (CFSM)	0.222		0.631		0.617	
ANNUAL RUNOFF (INCHES)	3.01		8.59		8.38	
10 PERCENT EXCEEDS	26		77		84	
50 PERCENT EXCEEDS	8.7		19		14	
90 PERCENT EXCEEDS	0.90		4.0		2.4	

a Also Oct. 10.

e Estimated.



## 05454300 CLEAR CREEK NEAR CORALVILLE, IA

LOCATION.--Lat 41°40'36", long 91°35'55", in NE $\frac{1}{4}$  SE $\frac{1}{4}$  sec.1, T.79 N., R.7 W., Johnson County, Hydrologic Unit 07080209, on left bank about 15 ft upstream from bridge on county highway, 1.1 mi west of post office in Coralville, 1.5 mi downstream from Deer Creek, and 2.7 mi upstream from mouth.

DRAINAGE AREA.--98.1 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1952 to current year. Monthly discharge only for some periods, published in WSP 1728.

REVISED RECORDS.--WDR IA-93-1: 1974 (M), 1982 (M), 1990 (M).

GAGE.--Water-stage recorder. Datum of gage is 647.48 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Jan. 7, 1957, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. U.S. Geological Survey data collection platform with telephone modem and 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](http://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	3.9	4.6	20	47	e15	61	100	43	189	35	17	71
2	3.8	36	18	46	e19	65	91	41	143	35	19	58
3	3.4	59	18	42	e16	56	85	39	122	59	27	51
4	3.2	44	17	43	e15	124	78	38	106	59	60	44
5	3.2	33	20	e41	e17	835	74	37	96	47	40	40
6	3.4	21	19	e45	e19	348	71	35	89	47	25	39
7	3.3	16	17	e38	e17	222	67	35	80	37	21	38
8	2.9	13	18	e34	e19	170	64	35	73	34	19	33
9	2.9	11	25	e30	e20	143	59	34	66	74	16	31
10	3.2	12	83	e29	e19	121	57	39	281	63	14	29
11	3.1	11	e49	e34	e19	113	55	40	235	49	13	27
12	2.9	10	e32	e37	e17	98	53	37	108	54	13	26
13	3.8	8.8	e30	e37	e16	98	52	40	88	45	12	24
14	9.7	8.4	e29	e34	e17	103	50	40	104	36	12	23
15	6.5	9.0	e34	e28	e17	93	48	37	88	32	12	110
16	7.7	8.3	e41	e53	e17	97	48	35	73	30	17	36
17	5.5	9.7	e36	e71	e17	103	46	40	67	28	20	28
18	5.1	12	e32	e50	e20	140	45	73	61	27	18	27
19	4.4	10	e23	e36	e40	202	44	46	58	25	16	24
20	4.9	9.2	e22	e31	e258	169	63	40	54	24	13	21
21	4.5	8.3	e27	e32	e382	128	81	37	124	23	11	21
22	4.7	8.5	e26	e25	e302	114	62	116	68	26	10	23
23	4.9	92	e25	e22	e210	106	54	286	55	25	9.3	24
24	5.1	61	e15	e22	e143	119	51	195	51	23	19	22
25	7.1	36	e24	e22	e100	111	55	224	50	22	21	20
26	5.7	30	e28	e22	e85	272	51	170	46	21	17	18
27	5.1	26	e50	e20	69	190	47	136	43	19	522	18
28	4.9	23	e103	e18	57	169	46	112	43	18	689	16
29	4.6	22	85	e15	56	147	43	100	39	25	316	14
30	4.7	22	62	e14	---	123	42	191	37	22	134	13
31	4.4	---	53	e14	---	111	---	358	---	20	92	---
TOTAL	142.5	674.8	1,081	1,032	2,018	4,951	1,782	2,729	2,737	1,084	2,244.3	969
MEAN	4.60	22.5	34.9	33.3	69.6	160	59.4	88.0	91.2	35.0	72.4	32.3
MAX	9.7	92	103	71	382	835	100	358	281	74	689	110
MIN	2.9	4.6	15	14	15	56	42	34	37	18	9.3	13
AC-FT	283	1,340	2,140	2,050	4,000	9,820	3,530	5,410	5,430	2,150	4,450	1,920
CFSM	0.05	0.23	0.36	0.34	0.71	1.63	0.61	0.90	0.93	0.36	0.74	0.33
IN.	0.05	0.26	0.41	0.39	0.77	1.88	0.68	1.03	1.04	0.41	0.85	0.37

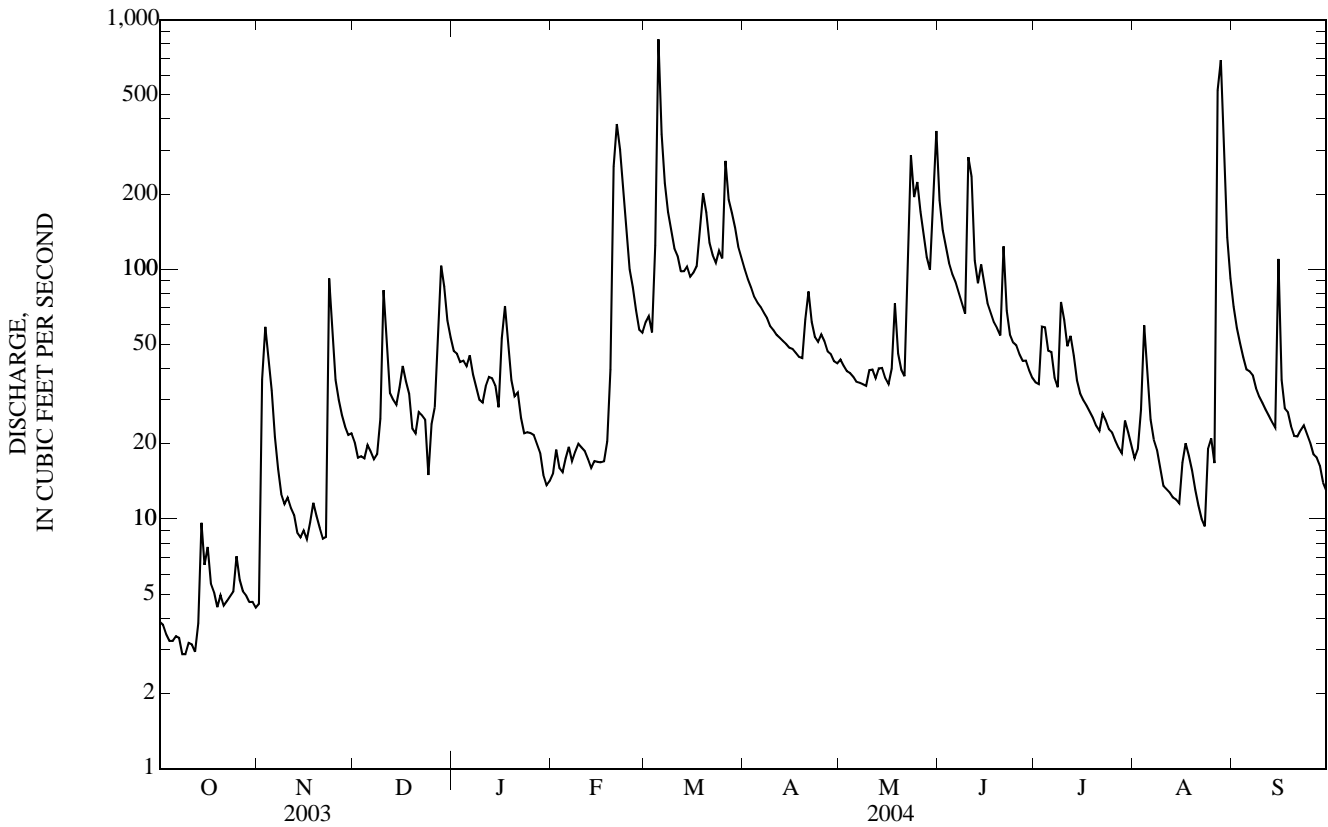
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2004, BY WATER YEAR (WY)

MEAN	33.2	43.3	37.4	38.3	71.9	111	100	110	105	87.9	58.8	41.5
MAX	261	246	162	206	243	402	452	589	566	991	759	337
(WY)	(1999)	(1962)	(1993)	(1960)	(2001)	(1979)	(1973)	(1974)	(1990)	(1993)	(1993)	(1965)
MIN	0.55	0.95	0.54	0.10	2.79	4.49	4.15	3.79	0.83	1.69	1.94	0.69
(WY)	(1958)	(1956)	(1956)	(1977)	(1954)	(1954)	(1956)	(1956)	(1956)	(1954)	(1953)	(1953)

05454300 CLEAR CREEK NEAR CORALVILLE, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1953 - 2004	
ANNUAL TOTAL	8,858.8		21,444.6		69.9	
ANNUAL MEAN	24.3		58.6		327	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					1957	
HIGHEST DAILY MEAN	288	May 9	835	Mar 5	7,310	Jun 17, 1990
LOWEST DAILY MEAN	2.9	Oct 8	2.9	Oct 8	0.00	Jan 18, 1977
ANNUAL SEVEN-DAY MINIMUM	3.1	Oct 6	3.1	Oct 6	0.00	Jan 18, 1977
MAXIMUM PEAK FLOW			987	Mar 5	10,200	Jun 17, 1990
MAXIMUM PEAK STAGE			8.21	Feb 20 a	16.36	Jun 17, 1990
INSTANTANEOUS LOW FLOW			2.7	Oct 7 b		
ANNUAL RUNOFF (AC-FT)	17,570		42,540		50,630	
ANNUAL RUNOFF (CFSM)	0.247		0.597		0.712	
ANNUAL RUNOFF (INCHES)	3.36		8.13		9.68	
10 PERCENT EXCEEDS	50		122		145	
50 PERCENT EXCEEDS	18		36		27	
90 PERCENT EXCEEDS	4.4		8.9		3.1	

a Ice affected  
 b Also Oct. 8-11.  
 e Estimated



## 05454500 IOWA RIVER AT IOWA CITY, IA

LOCATION.--Lat 41°39'24", long 91°32'27", in SE $\frac{1}{4}$  SE $\frac{1}{4}$  sec.9, T.79 N., R.6 W., Johnson County, Hydrologic Unit 07080209, on right bank 25 ft downstream from Hydraulics Laboratory of University of Iowa in Iowa City, 175 ft downstream from University Dam, 0.8 mi upstream from Ralston Creek, 3.6 mi downstream from Clear Creek, and at mile 74.2.

DRAINAGE AREA.--3,271 mi<sup>2</sup>.

PERIOD OF RECORD.--June 1903 to current year. Monthly discharge only for some periods, published in WSP 1308.

GAGE.--Water-stage recorder. Datum of gage is 29.00 ft above Iowa City datum, and 617.27 ft above NGVD of 1929. Oct. 1, 1934 to Sept. 30, 1972, at datum 10.00 ft higher. See WSP 1708 for history of changes prior to Oct. 1, 1934.

REMARKS.--Records good. Slight fluctuation at low stages caused by powerplant above station. Flow regulated by Coralville Lake (station 05453510), 9.1 mi upstream, since Sept. 17, 1958. U.S. Army Corps of Engineers rain gage and data collection platform with satellite telemetry and U.S. Geological Survey data collection platform with telephone modem backup at station. Precipitation records are available online at the U.S. Army Corps of Engineers website: [www2.mvr.usace.army.mil/WaterControl/datamining2.cfm](http://www2.mvr.usace.army.mil/WaterControl/datamining2.cfm).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 42,500 ft<sup>3</sup>/s June 8, 1918, gage height, 19.6 ft, from graph based on gage readings, site and datum then in use; minimum daily discharge, 29 ft<sup>3</sup>/s Oct. 21, 22, 1916, regulated.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 17, 1881, reached a stage of 21.1 ft, from floodmarks at site and datum in use 1913-21, from information by local resident, discharge, 51,000 ft<sup>3</sup>/s. Maximum stage known since at least 1850, about 3 ft higher than that of July 17, 1881, occurred in June 1851, discharge, 70,000 ft<sup>3</sup>/s, estimated

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	133	134	857	781	503	4,400	4,010	2,180	6,020	5,820	1,260	4,840
2	133	225	840	777	482	4,300	4,160	2,170	6,510	5,780	1,210	2,870
3	136	512	779	774	398	4,120	4,020	2,100	6,480	5,940	1,160	2,190
4	137	373	654	764	394	4,190	3,630	1,690	6,520	6,050	1,550	1,700
5	136	430	780	622	397	5,780	3,140	1,390	6,560	5,980	1,900	1,590
6	136	2,190	1,260	345	428	6,930	2,700	1,310	6,590	6,050	1,910	1,350
7	133	3,380	1,520	257	509	7,310	2,440	1,370	6,550	5,870	1,980	1,130
8	135	3,350	1,610	314	512	7,100	2,320	1,540	6,440	5,820	1,970	967
9	137	2,160	1,850	542	502	6,640	2,300	1,550	6,450	6,060	1,900	939
10	137	1,350	2,290	662	465	6,370	2,270	1,590	6,680	5,930	1,670	1,070
11	138	860	2,290	664	460	5,880	2,120	1,610	7,040	5,830	1,360	1,070
12	141	888	2,190	664	456	5,180	1,840	1,580	6,530	5,830	1,100	1,060
13	142	976	1,950	661	444	3,820	1,750	1,500	6,370	5,850	1,050	1,050
14	159	983	1,380	660	410	3,340	1,740	1,000	6,410	5,790	1,040	949
15	157	983	906	651	404	3,120	1,710	831	6,320	5,790	1,030	769
16	160	979	754	662	407	2,980	1,640	818	6,110	5,720	1,020	713
17	154	982	717	847	404	3,140	1,630	826	6,020	5,490	1,010	605
18	148	1,020	732	1,030	405	3,010	1,630	1,110	5,970	4,930	1,070	596
19	144	1,110	752	898	411	2,880	1,610	1,590	5,930	4,410	1,080	591
20	142	979	781	682	678	2,830	1,620	2,220	5,900	3,920	1,070	626
21	141	760	731	671	1,610	2,940	1,780	2,630	6,210	3,360	1,040	701
22	138	678	653	658	2,100	2,930	1,740	2,210	6,040	2,900	915	677
23	138	1,090	646	656	2,910	2,920	1,840	3,050	5,920	2,320	921	691
24	138	1,150	634	653	4,040	2,990	2,260	4,460	5,880	1,760	1,120	693
25	139	1,010	634	654	4,320	2,990	2,450	6,020	5,870	1,620	1,170	688
26	138	888	693	611	4,110	3,660	2,450	2,940	5,870	1,500	1,190	688
27	136	873	796	518	3,620	3,510	2,150	1,080	5,840	1,420	1,900	684
28	135	898	1,110	512	3,580	3,350	1,900	1,020	5,860	1,350	5,350	678
29	133	924	1,380	509	3,830	3,290	1,830	1,300	5,900	1,270	6,390	679
30	139	865	882	506	---	3,360	2,030	2,540	5,860	1,210	6,070	651
31	138	---	797	503	---	3,640	---	4,690	---	1,190	5,980	---
TOTAL	4,351	33,000	33,848	19,708	39,189	128,900	68,710	61,915	186,650	132,760	59,386	33,505
MEAN	140	1,100	1,092	636	1,351	4,158	2,290	1,997	6,222	4,283	1,916	1,117
MAX	160	3,380	2,290	1,030	4,320	7,310	4,160	6,020	7,040	6,060	6,390	4,840
MIN	133	134	634	257	394	2,830	1,610	818	5,840	1,190	915	591
AC-FT	8,630	65,460	67,140	39,090	77,730	255,700	136,300	122,800	370,200	263,300	117,800	66,460
CFSM	0.04	0.34	0.33	0.19	0.41	1.27	0.70	0.61	1.90	1.31	0.59	0.34
IN.	0.05	0.38	0.38	0.22	0.45	1.47	0.78	0.70	2.12	1.51	0.68	0.38

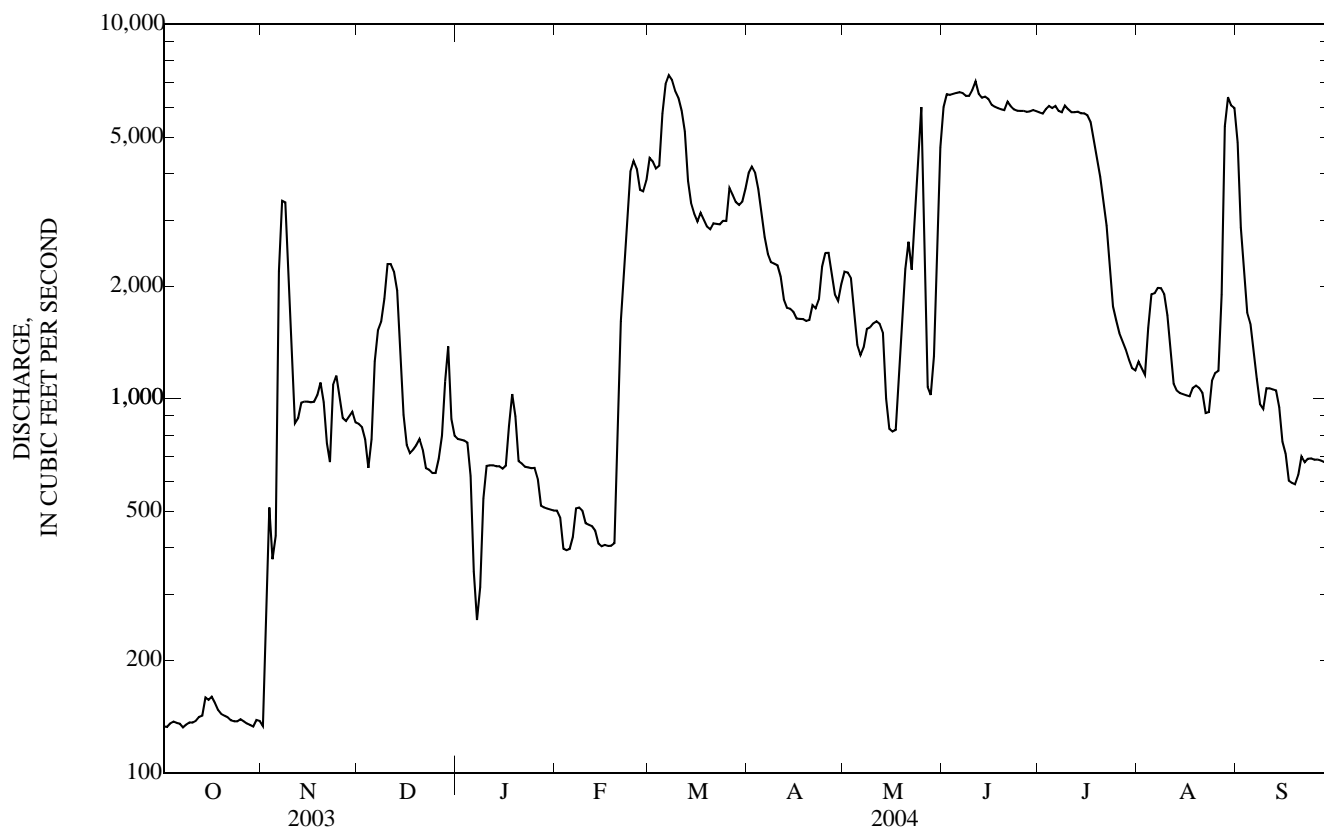
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	1,120	1,409	1,390	1,025	1,715	3,343	3,674	3,290	3,689	3,488	2,148	1,399
MAX	4,277	5,395	4,580	5,381	5,789	7,988	9,764	9,763	11,590	22,220	20,060	13,760
(WY)	(1994)	(1987)	(1983)	(1973)	(1973)	(1971)	(1979)	(1993)	(1991)	(1993)	(1993)	(1993)
MIN	135	121	130	141	125	366	348	184	99.1	72.8	162	147
(WY)	(1990)	(1967)	(1989)	(1990)	(1977)	(1977)	(1989)	(1977)	(1977)	(1977)	(1989)	(1976)

05454500 IOWA RIVER AT IOWA CITY, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004 a	
ANNUAL TOTAL	516,916		801,922			
ANNUAL MEAN	1,416		2,191		2,309	
HIGHEST ANNUAL MEAN					8,502	1993
LOWEST ANNUAL MEAN					304	1989
HIGHEST DAILY MEAN	6,180	May 15	7,310	Mar 7	26,200	Jul 21, 1993
LOWEST DAILY MEAN	133	Oct 1	133	Oct 1 b	49	Aug 1, 1977 c
ANNUAL SEVEN-DAY MINIMUM	135	Oct 1	135	Oct 1	50	Jul 31, 1977
MAXIMUM PEAK FLOW			7,550	Jun 11	28,200	Aug 10, 1993
MAXIMUM PEAK STAGE			17.40	Jun 11	28.52	Aug 10, 1993
ANNUAL RUNOFF (AC-FT)	1,025,000		1,591,000		1,673,000	
ANNUAL RUNOFF (CFSM)	0.433		0.670		0.706	
ANNUAL RUNOFF (INCHES)	5.88		9.12		9.59	
10 PERCENT EXCEEDS	3,800		5,920		5,980	
50 PERCENT EXCEEDS	720		1,330		1,280	
90 PERCENT EXCEEDS	147		365		219	

a Post regulation.  
 b Also Oct. 2, 7, and 29.  
 c Also Aug. 2, 1977.





## 05455010 SOUTH BRANCH RALSTON CREEK AT IOWA CITY, IA

LOCATION.--Lat 41°39'05", long 91°30'27", in SW<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec.14, T.79 N., R.6 W., Johnson County, Hydrologic Unit 07080209, on right bank 60 ft downstream from bridge on Muscatine Avenue in Iowa City, and 1.2 mi upstream from mouth.

DRAINAGE AREA.--2.94 mi<sup>2</sup>.

PERIOD OF RECORD.--Discharge records from October 1963 to September 1995. Stage-only records from October 29, 1996 to current year.

REVISED RECORDS.--WDR IA-66-1: Drainage area.

GAGE.--Records good except those for Nov. 11, Jan. 28, Feb. 28 to Mar. 16, and Sept. 13. Water-stage recorder and V-notch sharp-crested weir. Datum of gage is 678.03 ft above NGVD of 1929.

REMARKS.--Minor regulation from retention dam 2 miles upstream may affect peaks. U.S. Geological Survey data collection platform with telephone modem at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of July 14, 1962, reached a stage of 10.5 ft, from flood profile, discharge not determined.

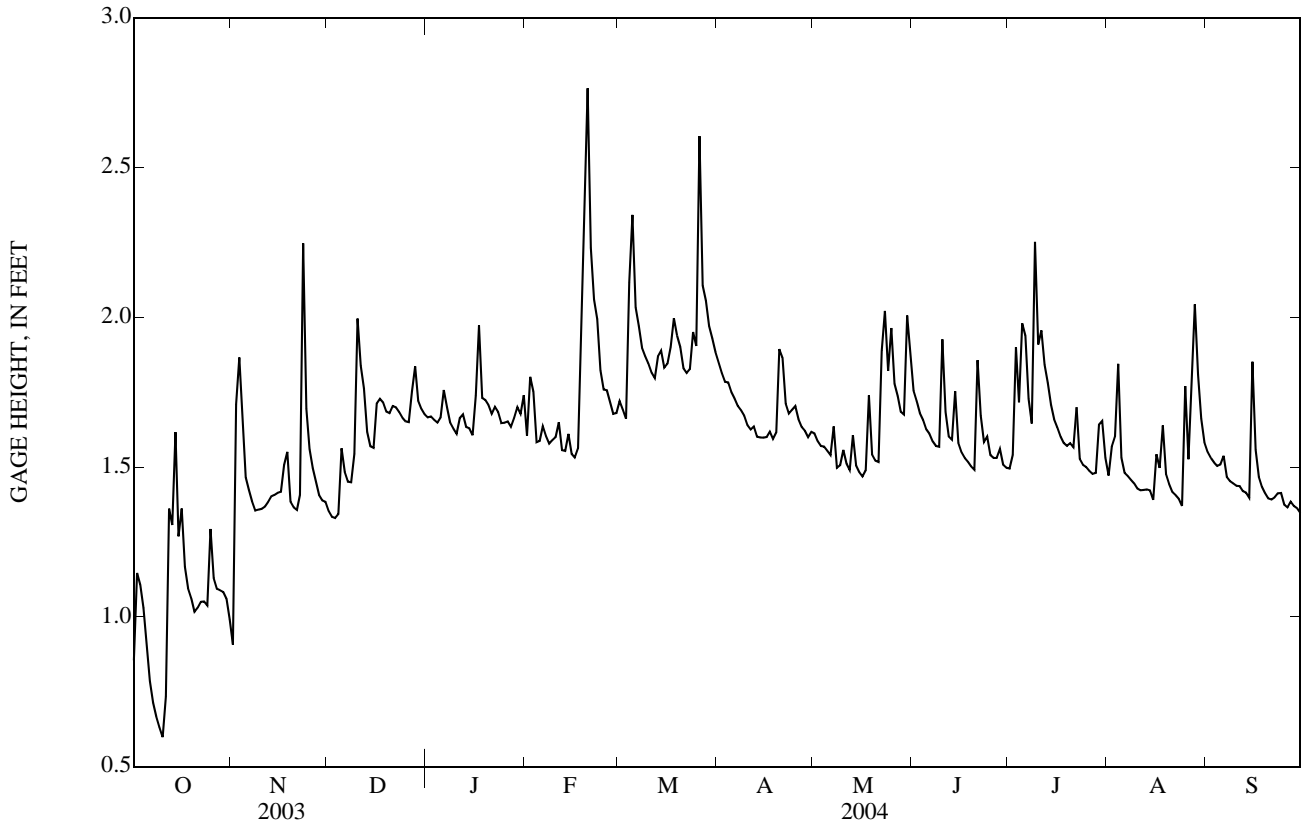
EXTREMES FOR CURRENT YEAR.--Maximum instantaneous gage height 6.25 ft on July 5. Minimum gage height of 0.56 ft. on Oct.11.

GAGE HEIGHT, FEET  
WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.85	0.91	1.35	1.67	1.60	1.72	1.85	1.61	1.75	1.50	1.47	e1.55
2	1.15	1.71	1.33	1.67	1.80	1.69	1.81	1.59	1.72	1.54	1.57	1.53
3	1.11	1.87	1.33	1.66	1.75	1.66	1.78	1.57	1.68	1.90	1.60	1.52
4	1.03	1.64	1.34	1.65	1.58	2.12	1.78	1.57	1.66	1.72	1.84	1.50
5	0.90	1.47	1.56	1.67	1.59	2.34	1.75	1.55	1.63	1.98	1.53	1.51
6	0.79	1.42	1.48	1.76	1.64	2.03	1.73	1.54	1.61	1.94	1.48	1.54
7	0.71	1.38	1.45	1.70	1.60	1.97	1.70	1.64	1.59	1.73	1.47	1.47
8	0.67	1.35	1.45	1.65	1.58	1.90	1.69	1.50	1.57	1.65	1.46	1.45
9	0.63	1.36	1.54	1.63	1.59	1.87	1.67	1.51	1.57	2.25	1.45	1.45
10	0.60	1.36	2.00	1.61	1.60	1.85	1.64	1.56	1.93	1.91	1.43	1.44
11	0.73	1.37	1.84	1.66	1.65	1.81	1.63	1.51	1.68	1.96	1.42	1.44
12	1.36	1.38	1.76	1.68	1.56	1.80	1.64	1.49	1.60	1.84	1.42	1.42
13	1.31	1.40	1.62	1.63	1.55	1.87	1.60	1.61	1.59	1.78	1.42	1.41
14	1.62	1.41	1.57	1.63	1.61	1.89	1.60	1.50	1.75	1.71	1.42	1.40
15	1.27	1.41	1.56	1.61	1.54	1.83	1.60	1.48	1.58	1.66	1.39	1.85
16	1.36	1.42	1.71	1.74	1.53	1.85	1.60	1.47	1.55	1.63	1.54	1.56
17	1.17	1.51	1.73	1.97	1.56	1.90	1.62	1.49	1.53	1.60	1.50	1.47
18	1.09	1.55	1.72	1.73	1.88	2.00	1.59	1.74	1.52	1.58	1.64	1.43
19	1.06	1.38	1.68	1.72	2.27	1.94	1.62	1.54	1.50	1.57	1.48	1.41
20	1.02	1.37	1.68	1.71	2.76	1.90	1.89	1.52	1.49	1.58	1.44	1.40
21	1.03	1.36	1.70	1.68	2.23	1.83	1.87	1.52	1.86	1.57	1.42	1.39
22	1.05	1.41	1.70	1.70	2.06	1.81	1.71	1.89	1.67	1.70	1.41	1.40
23	1.05	2.25	1.68	1.68	1.99	1.83	1.68	2.02	1.58	1.53	1.39	1.41
24	1.04	1.69	1.67	1.65	1.82	1.95	1.69	1.82	1.60	1.51	e1.37	1.41
25	1.29	1.56	1.65	1.65	1.76	1.90	1.70	1.96	e1.54	1.50	e1.77	1.37
26	1.13	1.50	1.65	1.65	1.76	2.60	1.66	1.78	e1.53	1.49	1.53	1.37
27	1.09	1.45	1.75	1.63	1.72	2.11	1.63	1.74	e1.53	1.48	1.78	1.38
28	1.09	1.41	1.84	1.66	1.68	2.06	1.62	1.68	1.56	1.48	2.04	1.37
29	1.08	1.39	1.72	1.70	1.68	1.97	1.60	1.67	1.51	1.64	1.81	1.36
30	1.06	1.38	1.69	1.68	---	1.93	1.62	2.01	1.50	1.65	1.66	1.35
31	0.99	---	1.68	1.74	---	1.88	---	1.87	---	1.53	1.58	---
MEAN	1.04	1.47	1.63	1.68	1.76	1.93	1.69	1.64	1.61	1.68	1.54	1.45
MAX	1.62	2.25	2.00	1.97	2.76	2.60	1.89	2.02	1.93	2.25	2.04	1.85
MIN	0.60	0.91	1.33	1.61	1.53	1.66	1.59	1.47	1.49	1.48	1.37	1.35

e Estimated

05455010 SOUTH BRANCH RALSTON CREEK AT IOWA CITY, IA—Continued



## 05455100 OLD MANS CREEK NEAR IOWA CITY, IA

LOCATION.--Lat. 41°36'23", long. 91°36'56", in SE $\frac{1}{4}$  SW $\frac{1}{4}$  NW $\frac{1}{4}$  sec.36, T.79 N., R.7 W., Johnson County, Hydrologic Unit 07080209, on left bank 10 ft downstream from bridge on county highway W62, 5 miles southwest of Iowa City, 5.9 miles upstream of Dirty Face Creek, and 8.6 miles upstream from mouth.

DRAINAGE AREA.--201 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1950 to September 1964, published in WSP 1914. Annual maximum, water years 1965-84. Occasional low-flow measurements, water years 1964-77; October 1984 to current year.

GAGE.--Water-stage recorder. Datum of gage is 637.49 ft above NGVD of 1929. Prior to Nov. 16, 1984, nonrecording gage at same site at datum 2.00 ft higher. Prior to Oct. 1, 1987, at datum 2.00 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](http://www2.mvr.usace.army.mil/WaterControl/datamining2.cfm).

COOPERATION.--Gage height record and discharge measurements for water years 1951-64 were collected by the U.S. Army Corps of Engineers and computed by the U.S. Geological Survey.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 13,500 ft<sup>3</sup>/s, on the basis of contracted-opening of peak flow, June 15, 1982, gage height, 17.25 ft, present datum.

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	4.3	3.6	25	77	e13	170	217	93	430	56	30	91
2	4.3	8.3	21	76	e18	168	197	89	317	53	32	77
3	4.4	47	17	70	e14	150	179	85	267	79	34	65
4	4.5	93	18	e40	e13	187	165	82	236	146	165	56
5	4.7	82	19	e47	e17	1,460	154	83	218	86	133	50
6	4.5	44	19	e52	e18	965	148	76	200	100	62	46
7	4.9	27	21	e44	e16	476	137	79	181	75	46	51
8	4.4	20	18	e38	e17	357	122	72	164	61	40	38
9	4.4	15	20	e33	e18	302	109	72	150	529	35	36
10	4.5	15	94	e30	e18	263	104	67	393	402	32	34
11	4.4	18	95	e36	e17	237	98	71	441	189	29	31
12	4.2	13	e36	e39	e15	204	94	67	226	198	26	29
13	5.7	11	e33	e39	e14	198	90	67	181	161	24	26
14	5.9	9.1	e31	e37	e15	206	86	74	167	129	23	24
15	6.9	8.6	e38	e29	e12	191	83	68	160	106	21	92
16	9.4	8.6	e44	e51	e13	191	79	64	134	94	21	63
17	5.9	9.1	e38	e70	e15	188	75	63	124	80	27	37
18	5.2	9.2	e35	e48	e19	285	74	118	110	69	29	31
19	5.0	10	e26	e34	e25	433	67	138	101	64	28	28
20	5.1	10	e24	e29	e382	348	80	113	93	59	23	25
21	4.2	7.9	e30	e29	e788	267	230	108	153	53	18	23
22	4.4	7.5	e31	e23	e594	231	164	195	121	55	16	22
23	3.5	50	e30	e20	e502	215	134	734	96	58	14	21
24	3.7	102	e15	e20	e419	217	124	579	86	48	21	20
25	3.6	52	e27	e20	332	213	125	522	83	44	26	19
26	3.5	45	e30	e19	230	432	115	415	77	40	31	18
27	5.2	35	e51	e19	186	364	104	314	72	36	43	17
28	4.3	28	173	e17	161	323	104	255	71	34	992	17
29	3.7	19	163	e13	156	303	98	222	67	34	408	16
30	3.8	24	106	e12	---	266	90	361	60	41	182	16
31	3.5	---	93	e13	---	246	---	816	---	34	117	---
TOTAL	146.0	831.9	1,421	1,124	4,057	10,056	3,646	6,162	5,179	3,213	2,728	1,119
MEAN	4.71	27.7	45.8	36.3	140	324	122	199	173	104	88.0	37.3
MAX	9.4	102	173	77	788	1,460	230	816	441	529	992	92
MIN	3.5	3.6	15	12	12	150	67	63	60	34	14	16
AC-FT	290	1,650	2,820	2,230	8,050	19,950	7,230	12,220	10,270	6,370	5,410	2,220
CFSM	0.02	0.14	0.23	0.18	0.70	1.61	0.60	0.99	0.86	0.52	0.44	0.19
IN.	0.03	0.15	0.26	0.21	0.75	1.86	0.67	1.14	0.96	0.59	0.50	0.21

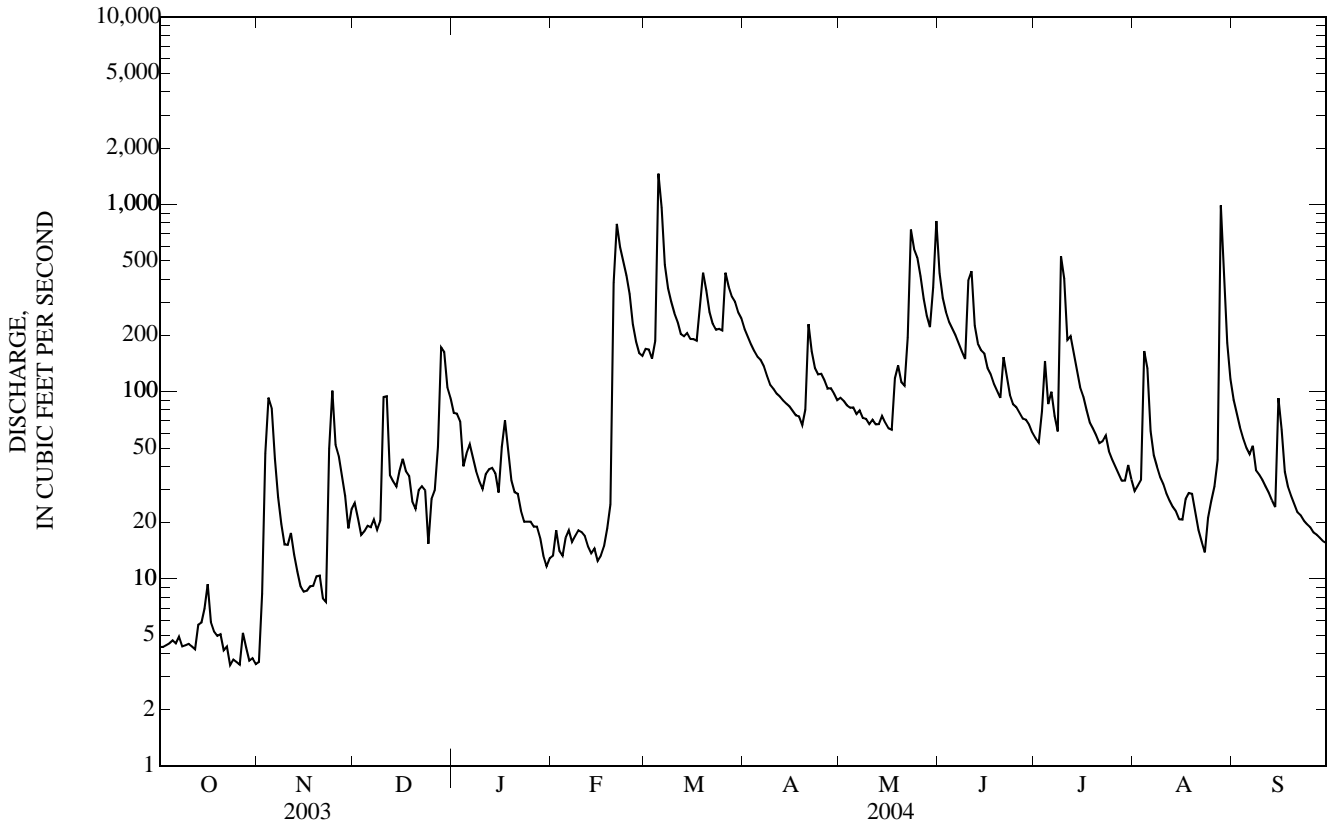
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)

MEAN	60.4	87.2	52.9	59.0	125	240	167	231	191	148	100	57.7
MAX	541	636	337	436	536	793	625	1,071	907	1,515	1,190	598
(WY)	(1999)	(1962)	(1993)	(1960)	(2001)	(1962)	(1993)	(1996)	(1990)	(1993)	(1993)	(1993)
MIN	0.21	0.39	0.35	0.26	2.50	2.12	1.29	4.97	5.34	1.43	2.97	0.36
(WY)	(1958)	(1956)	(1956)	(1956)	(1954)	(1954)	(1956)	(1956)	(1956)	(1954)	(1988)	(1957)

05455100 OLD MANS CREEK NEAR IOWA CITY, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1951 - 2004	
ANNUAL TOTAL	12,861.1		39,682.9		127	
ANNUAL MEAN	35.2		108		607	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					1954	
HIGHEST DAILY MEAN	539	May 9	1,460	Mar 5	8,780	Jul 6, 1993
LOWEST DAILY MEAN	3.4	Sep 10	3.5	Oct 23 a	0.10	Sep 6, 1957
ANNUAL SEVEN-DAY MINIMUM	3.5	Sep 6	3.9	Oct 23	0.10	Sep 6, 1957
MAXIMUM PEAK FLOW			1,650	Mar 5	13,000	Jul 6, 1993
MAXIMUM PEAK STAGE			10.78	Mar 5	17.61	Jul 6, 1993
INSTANTANEOUS LOW FLOW			3.1	Oct 23		
ANNUAL RUNOFF (AC-FT)	25,510		78,710		91,710	
ANNUAL RUNOFF (CFSM)	0.175		0.539		0.630	
ANNUAL RUNOFF (INCHES)	2.38		7.34		8.56	
10 PERCENT EXCEEDS	82		264		280	
50 PERCENT EXCEEDS	19		52		39	
90 PERCENT EXCEEDS	4.4		9.0		2.2	

a Also Oct. 26, 31.  
e Estimated.



## 05455500 ENGLISH RIVER AT KALONA, IA

LOCATION.--Lat 41°28'11", long 91°42'52", (revised) in SE $\frac{1}{4}$  SE $\frac{1}{4}$  sec. 13, T.77 N., R.8 W., Washington County, Hydrologic Unit 07080209, on right bank 30 ft upstream from bridge on State Highway 1, 0.8 mi south of Kalona, 1.1 mi upstream from Camp Creek, 4.5 mi downstream from Smith Creek, and 14.5 mi upstream from mouth.

DRAINAGE AREA.--573 mi<sup>2</sup>.

PERIOD OF RECORD.--September 1939 to current year.

REVISED RECORDS.--WSP 1438: Drainage area. WSP 1558: 1940 (M), 1941. WSP 1708: 1956, 1957 (P), 1958 (P).

GAGE.--Water-stage recorder. Datum of gage is 633.45 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Prior to Dec. 27, 1939, nonrecording gage 30 ft downstream at same datum.

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](http://www2.mvr.usace.army.mil/WaterControl/datamining2.cfm).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1930 reached a stage of 19.9 ft, from floodmark, from information by local residents, discharge, 18,500 ft<sup>3</sup>/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	7.9	10	32	134	e64	e359	734	248	1,630	110	48	147
2	7.4	17	37	132	e64	e326	635	243	986	103	43	115
3	7.2	44	35	127	e64	349	562	225	776	446	78	96
4	7.3	116	33	e108	e58	358	500	213	659	527	185	84
5	7.4	228	33	e98	e61	4,040	443	204	586	370	483	74
6	7.5	175	32	e83	e58	3,230	413	191	533	300	211	69
7	7.9	94	34	e67	e58	1,660	383	182	474	261	112	71
8	7.6	63	36	e61	e61	1,020	353	173	413	198	80	70
9	7.6	45	38	e52	e61	810	316	165	359	954	64	61
10	7.1	41	205	e56	e58	679	286	158	503	869	53	54
11	7.2	39	e132	e65	e58	590	268	152	1,410	426	46	50
12	7.1	39	e66	e71	e61	478	256	148	912	499	42	47
13	6.7	37	e60	e71	e58	431	244	150	564	379	39	44
14	9.4	31	e57	e74	e61	459	233	166	453	256	36	41
15	9.9	29	e68	e80	e63	465	224	166	387	181	32	71
16	10	28	e89	e74	e55	441	214	150	337	145	29	78
17	10	28	e75	e118	e49	465	205	140	356	123	29	46
18	15	31	e63	e199	e43	829	202	310	600	108	33	41
19	13	30	e43	e307	e40	1,800	197	547	356	97	35	38
20	11	30	e39	e210	e677	1,460	209	472	284	86	31	36
21	9.8	30	e53	e164	e1,250	1,000	983	924	260	77	28	34
22	9.3	28	e51	e134	e1,500	753	860	1,480	253	87	23	31
23	9.2	104	e49	e113	e1,370	650	581	2,180	225	173	21	31
24	8.9	129	e40	e99	e1,100	618	469	1,970	194	114	25	29
25	9.1	91	e50	e94	e835	619	432	1,570	177	89	39	29
26	9.3	67	e66	e87	e658	2,040	396	1,850	165	78	46	28
27	11	60	e129	e83	e528	1,500	346	1,100	150	71	41	29
28	11	54	e367	e80	e431	1,190	315	845	140	63	632	28
29	9.9	40	e307	e73	e383	1,360	291	685	132	56	1,090	26
30	11	35	222	e70	---	1,090	262	967	121	56	388	25
31	9.7	---	162	e64	---	872	---	2,510	---	56	211	---
TOTAL	282.4	1,793	2,703	3,248	9,827	31,941	11,812	20,484	14,395	7,358	4,253	1,623
MEAN	9.11	59.8	87.2	105	339	1,030	394	661	480	237	137	54.1
MAX	15	228	367	307	1,500	4,040	983	2,510	1,630	954	1,090	147
MIN	6.7	10	32	52	40	326	197	140	121	56	21	25
MED	9.2	40	53	83	61	753	331	243	373	123	43	45
AC-FT	560	3,560	5,360	6,440	19,490	63,350	23,430	40,630	28,550	14,590	8,440	3,220
CFSM	0.02	0.10	0.15	0.18	0.59	1.80	0.69	1.15	0.84	0.41	0.24	0.09
IN.	0.02	0.12	0.18	0.21	0.64	2.07	0.77	1.33	0.93	0.48	0.28	0.11

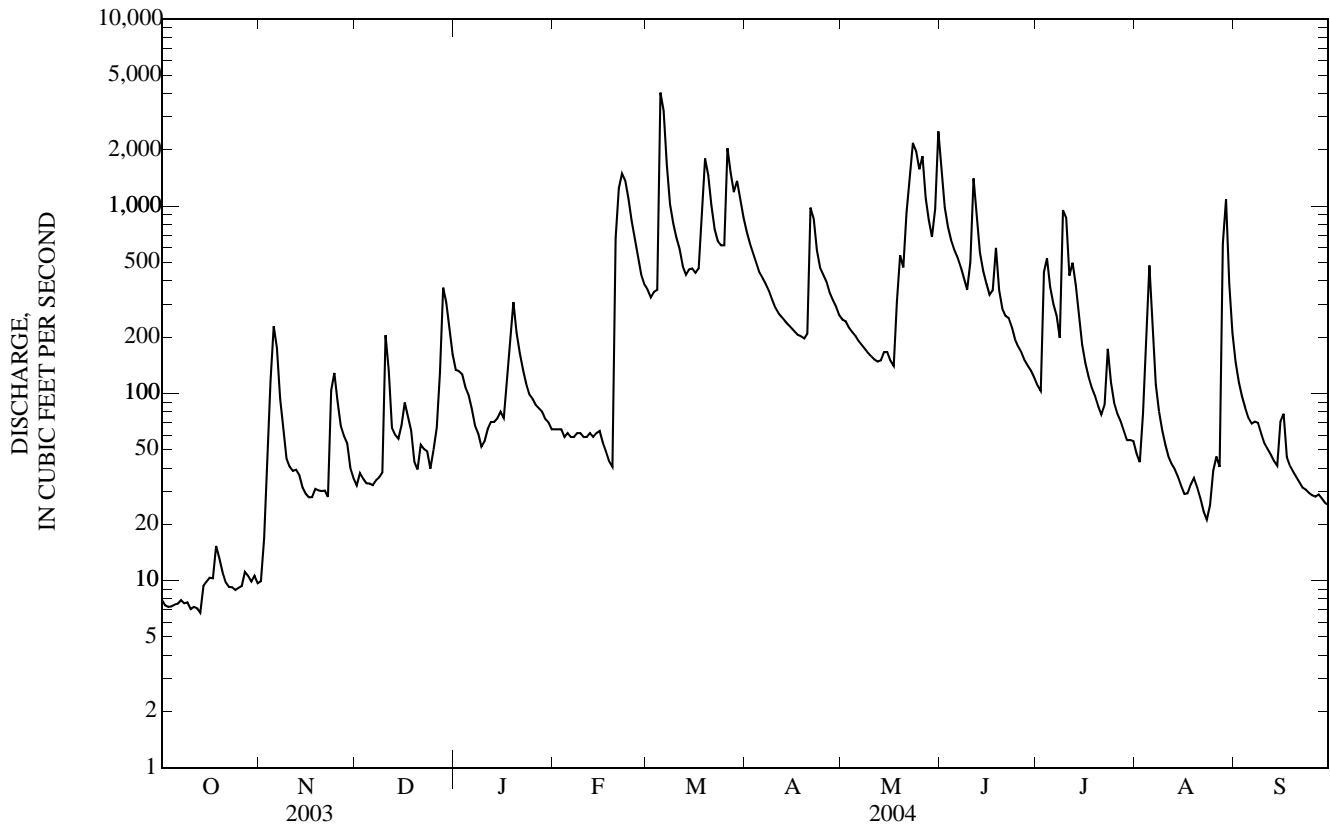
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	160	240	179	201	360	693	629	684	593	399	261	222
MAX	1,274	2,060	1,085	1,429	1,066	2,957	2,736	3,529	2,570	4,207	3,696	3,169
(WY)	(1999)	(1962)	(1983)	(1946)	(1984)	(1979)	(1973)	(1974)	(1990)	(1993)	(1993)	(1965)
MIN	2.98	2.38	2.19	0.76	13.8	10.8	5.35	9.62	21.7	7.31	6.34	3.10
(WY)	(1954)	(1956)	(1956)	(1977)	(1954)	(1954)	(1956)	(1956)	(1940)	(1954)	(1955)	(1955)

05455500 ENGLISH RIVER AT KALONA, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	38,950.5		109,719.4		385	
ANNUAL MEAN	107		300		1,721	
HIGHEST ANNUAL MEAN					1993	
LOWEST ANNUAL MEAN					41.7	
HIGHEST DAILY MEAN	1,760	May 10	4,040	Mar 5	22,300	Jul 6, 1993
LOWEST DAILY MEAN	6.7	Oct 13	6.7	Oct 13	0.66	Feb 5, 1977
ANNUAL SEVEN-DAY MINIMUM	7.3	Oct 7	7.3	Oct 7	0.68	Feb 1, 1977
MAXIMUM PEAK FLOW			4,840	Mar 5	36,100	Jul 6, 1993
MAXIMUM PEAK STAGE			14.76	Mar 5	22.55	Jul 6, 1993
INSTANTANEOUS LOW FLOW			6.2	Oct 13		
ANNUAL RUNOFF (AC-FT)	77,260		217,600		278,900	
ANNUAL RUNOFF (CFSM)	0.186		0.522		0.671	
ANNUAL RUNOFF (INCHES)	2.52		7.11		9.11	
10 PERCENT EXCEEDS	252		838		860	
50 PERCENT EXCEEDS	43		106		118	
90 PERCENT EXCEEDS	9.9		25		12	

e Estimated



## 05455700 IOWA RIVER NEAR LONE TREE, IA

LOCATION.--(revised)Lat 41°25'26", long 91°28'43", in NW¼ NE¼ sec.6, T.76 N., R.5 W., Louisa County, Hydrologic Unit 07080209, on left bank 30 ft downstream from tri-county bridge on county highway W66, 5 mi southwest of Lone Tree, 6.2 mi downstream from English River, and at mile 47.2.

DRAINAGE AREA.--4,293 mi<sup>2</sup>.

PERIOD OF RECORD.--October 1956 to current year.

GAGE.--Water-stage recorder. Datum of gage is 588.16 ft above NGVD of 1929. Prior to Dec. 28, 1956, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow regulated by Coralville Lake (station 05453510), 36.1 mi upstream, since Sept. 17, 1958. 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](http://www2.mvr.usace.army.mil/WaterControl/datamining2.cfm).

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of May 25, 1944, reached a stage of 19.94 ft, discharge not determined, from information by U.S. Army Corps of Engineers.

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	192	207	1,020	1,220	e583	4,960	5,140	2,700	8,960	6,490	1,610	6,390
2	185	249	1,000	1,200	e565	4,980	5,190	2,700	8,220	6,440	1,570	3,960
3	192	517	996	1,190	e495	4,630	5,020	2,670	7,720	6,610	1,500	3,180
4	180	507	870	1,120	e479	4,650	4,590	2,350	7,510	7,480	1,860	2,240
5	184	499	855	e957	e494	9,690	4,080	1,960	7,410	7,030	2,660	2,070
6	182	2,020	1,140	e671	e535	12,600	3,600	1,800	7,370	7,110	2,610	1,810
7	182	3,590	1,460	e478	e647	10,400	3,260	1,790	7,300	6,840	2,470	1,530
8	182	3,800	1,530	e394	e666	8,930	3,050	1,980	7,080	6,660	2,400	1,330
9	182	2,520	1,740	e649	e630	7,910	2,980	2,000	7,000	7,200	2,360	1,150
10	182	1,590	2,450	e691	e582	7,490	2,910	2,040	7,040	8,670	2,120	1,220
11	184	1,150	2,760	e698	e573	6,760	2,820	2,080	9,010	7,210	1,770	1,230
12	193	991	2,370	e715	e557	6,300	2,440	2,040	7,980	7,030	1,440	1,210
13	193	1,070	e2,210	e713	e555	4,770	2,300	2,040	7,400	7,040	1,370	1,190
14	229	1,090	1,830	e711	e524	4,210	2,260	1,580	7,260	6,780	1,350	1,170
15	231	1,090	1,430	e706	e503	4,030	2,230	1,290	7,360	6,670	1,330	897
16	214	1,080	1,230	e718	e488	3,800	2,130	1,230	7,080	6,520	1,330	1,270
17	221	1,090	1,180	e895	e488	3,950	2,120	1,220	6,970	6,330	1,330	846
18	205	1,110	1,110	e1,200	e488	4,180	2,080	1,540	7,100	5,730	1,380	745
19	208	1,160	1,100	e995	e501	5,060	2,070	2,280	6,960	5,130	1,430	718
20	207	1,170	1,190	e795	e824	5,120	2,060	2,860	6,820	4,630	1,370	694
21	202	963	1,190	e766	e2,120	4,620	2,750	3,930	6,940	4,020	1,340	751
22	196	864	1,010	e740	e3,200	4,210	3,180	3,840	7,090	3,550	1,190	768
23	198	1,200	988	e738	e4,360	4,030	2,770	6,150	6,770	3,100	1,140	741
24	199	1,580	978	e735	e6,220	4,030	2,800	7,420	6,680	2,390	1,350	758
25	207	1,350	989	e723	5,490	4,020	3,100	8,710	6,620	2,140	1,480	745
26	203	1,160	960	e713	5,000	7,360	3,210	6,820	6,600	1,960	1,490	738
27	204	1,080	1,070	e651	4,230	6,890	2,880	3,690	6,550	1,850	1,690	731
28	204	1,050	1,230	e626	4,110	5,450	2,590	2,650	6,540	1,760	6,510	715
29	204	1,090	2,110	e614	4,200	5,300	2,400	2,310	6,610	1,660	8,910	692
30	204	1,040	1,600	e593	---	5,110	2,530	4,110	6,560	1,610	7,410	688
31	208	---	1,310	e585	---	4,980	---	7,760	---	1,530	6,910	---
TOTAL	6,157	37,877	42,906	24,200	50,107	180,420	90,540	97,540	216,510	159,170	74,680	42,177
MEAN	199	1,263	1,384	781	1,728	5,820	3,018	3,146	7,217	5,135	2,409	1,406
MAX	231	3,800	2,760	1,220	6,220	12,600	5,190	8,710	9,010	8,670	8,910	6,390
MIN	180	207	855	394	479	3,800	2,060	1,220	6,540	1,530	1,140	688
AC-FT	12,210	75,130	85,100	48,000	99,390	357,900	179,600	193,500	429,400	315,700	148,100	83,660
CFSM	0.05	0.29	0.32	0.18	0.40	1.36	0.70	0.73	1.68	1.20	0.56	0.33
IN.	0.05	0.33	0.37	0.21	0.43	1.56	0.78	0.85	1.88	1.38	0.65	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1959 - 2004, BY WATER YEAR (WY)

MEAN	1,506	1,923	1,822	1,436	2,380	4,643	4,961	4,653	4,796	4,392	2,759	1,961
MAX	6,115	6,347	6,678	7,814	7,205	10,410	12,230	14,030	13,150	30,320	26,150	18,150
(WY)	(1994)	(1962)	(1983)	(1973)	(1973)	(1993)	(1979)	(1979)	(1974)	(1993)	(1993)	(1993)
MIN	192	190	168	154	158	539	533	282	147	180	186	210
(WY)	(1989)	(1967)	(1989)	(1977)	(1977)	(1977)	(1989)	(1977)	(1977)	(1977)	(1989)	(1988)

05455700 IOWA RIVER NEAR LONE TREE, IA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1959 - 2004 a	
ANNUAL TOTAL	588,469		1,022,284		3,105	
ANNUAL MEAN	1,612		2,793		483	
HIGHEST ANNUAL MEAN					11,900	1993
LOWEST ANNUAL MEAN					483	1989
HIGHEST DAILY MEAN	8,800	May 10	12,600	Mar 6	55,100	Jul 7, 1993
LOWEST DAILY MEAN	180	Oct 4	180	Oct 4	69	Aug 4, 1977
ANNUAL SEVEN-DAY MINIMUM	182	Oct 4	182	Oct 4	75	Jul 30, 1977
MAXIMUM PEAK FLOW			13,100	Mar 6	57,100	Jul 7, 1993
MAXIMUM PEAK STAGE			14.51	Mar 6	22.94	Jul 7, 1993
ANNUAL RUNOFF (AC-FT)	1,167,000		2,028,000		2,249,000	
ANNUAL RUNOFF (CFSM)	0.376		0.651		0.723	
ANNUAL RUNOFF (INCHES)	5.10		8.86		9.83	
10 PERCENT EXCEEDS	4,170		7,030		7,500	
50 PERCENT EXCEEDS	948		1,720		1,750	
90 PERCENT EXCEEDS	208		485		320	

a Post regulation.

e Estimated.

