

UPPER MISSISSIPPI RIVER MAIN STEM

05288705 SHINGLE CREEK AT QUEEN AVE. IN MINNEAPOLIS, MN

LOCATION.-- Lat 45 ° 03'00", long 93 ° 18'36", in NE 1 / 4 NW 1 / 4 sec. 11, T.118 N., R.21 W., Hennepin County, Hydrologic Unit 07010206, at bridge over Shingle Creek at intersection of Queen Avenue North and 52nd Avenue North in Minneapolis.

DRAINAGE AREA.-- 28.2 mi 2 .

PERIOD OF RECORD.-- May 1996 to current year.

GAGE.-- Water-stage recorder. Elevation of gage is 850 ft above mean sea level (from topographic map).

REMARKS.-- Records fair.

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998

DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.1	8.9	5.2	3.3	3.8	23	87	6.9	25	22	.83	4.3
2	6.9	9.0	5.1	3.6	3.0	21	83	11	20	13	1.1	3.5
3	6.8	8.5	5.0	3.3	3.1	19	77	9.1	12	24	23	3.0
4	5.9	7.0	5.0	2.9	2.6	15	69	8.8	8.1	15	21	2.7
5	6.2	6.2	5.7	3.4	3.0	13	61	8.5	6.0	10	16	2.7
6	9.0	5.6	6.1	3.8	3.0	11	56	9.0	4.9	9.2	10	2.4
7	8.2	5.4	4.5	3.6	3.1	9.1	56	15	4.3	7.9	15	2.1
8	9.6	4.8	4.0	3.9	3.3	8.7	56	45	4.1	5.5	24	1.4
9	11	4.8	3.8	3.9	3.7	7.9	49	38	5.1	4.2	23	1.3
10	9.3	5.0	3.7	2.5	3.7	11	43	29	4.6	3.3	16	1.4
11	10	4.9	3.6	e2.8	3.9	5.4	38	21	5.2	3.2	9.6	1.5
12	41	4.3	3.5	e3.2	3.3	4.8	33	16	12	2.8	5.6	1.3
13	51	4.7	3.3	e3.1	3.1	4.7	32	14	12	2.4	3.6	1.8
14	41	5.2	3.2	e3.0	2.8	6.3	27	11	11	6.8	2.5	2.0

15	32	5.1	3.8	2.8	4.7	4.0	23	40	5.5	53	1.7	1.7
16	24	4.9	4.3	3.0	9.4	4.8	20	52	4.6	44	16	1.5
17	18	4.9	4.0	2.9	17	3.6	17	40	4.1	36	16	1.7
18	13	4.2	4.3	2.9	16	3.8	14	28	6.1	25	12	1.7
19	11	3.9	4.2	3.0	13	4.2	14	18	5.8	19	12	6.6
20	9.0	3.8	4.0	2.8	10	4.3	14	11	5.1	14	35	9.4
21	8.9	3.8	3.6	2.6	8.3	3.8	13	9.1	3.6	9.4	31	6.6
22	8.4	4.3	3.4	3.1	7.7	3.4	12	7.4	2.7	6.0	39	3.9
23	7.7	3.9	3.6	3.1	9.9	3.4	11	6.2	2.2	4.1	35	3.7
24	6.6	3.6	3.5	3.0	9.5	3.5	9.7	9.1	26	3.1	28	3.6
25	6.1	3.9	3.3	2.7	9.9	4.0	8.6	8.3	55	2.2	20	2.6
26	5.8	4.3	3.4	2.6	14	5.0	9.5	7.5	50	1.7	12	9.2
27	5.6	5.7	3.3	2.6	25	30	9.3	6.2	68	2.4	9.9	11
28	5.3	5.7	3.6	2.7	25	44	7.7	13	55	1.4	8.3	7.8
29	4.8	5.3	3.5	2.5	---	46	6.8	7.7	44	1.0	6.7	4.7
30	4.4	5.1	3.3	2.5	---	50	7.4	10	35	1.4	5.5	7.1
31	7.7	---	3.0	3.5	---	67	---	34	---	1.4	4.7	---
TOTAL	401.3	156.7	123.8	94.6	224.8	444.7	964.0	549.8	507.0	354.4	464.03	114.2
MEAN	12.9	5.22	3.99	3.05	8.03	14.3	32.1	17.7	16.9	11.4	15.0	3.81
MAX	51	9.0	6.1	3.9	25	67	87	52	68	53	39	11
MIN	4.4	3.6	3.0	2.5	2.6	3.4	6.8	6.2	2.2	1.0	.83	1.3
AC-FT	796	311	246	188	446	882	1910	1090	1010	703	920	227
CFSM	.46	.19	.14	.11	.28	.51	1.14	.63	.60	.41	.53	.13
IN.	.53	.21	.16	.12	.30	.59	1.27	.73	.67	.47	.61	.15

e Estimated

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 1998, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	11.1	16.7	6.60	5.15	6.88	19.3	31.3	15.5	19.7	24.5	16.5	7.75
MAX	12.9	28.2	9.21	7.25	8.03	24.3	32.1	17.7	34.8	54.1	29.4	16.5
(WY)	1998	1997	1997	1997	1998	1997	1998	1998	1996	1997	1997	1997
MIN	9.18	5.22	3.99	3.05	5.72	14.3	30.4	13.3	7.47	7.92	5.04	2.92
(WY)	1997	1998	1998	1998	1997	1998	1997	1997	1997	1996	1996	1996

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1996 - 1998		
ANNUAL TOTAL	6451.9		4399.33				
ANNUAL MEAN	17.7		12.1		15.9		
HIGHEST ANNUAL MEAN					19.7		1997
LOWEST ANNUAL MEAN					12.1		1998
HIGHEST DAILY MEAN	104	Jul 25	87	Apr 1	136	May 19	1996
LOWEST DAILY MEAN	2.4	Jun 14	.83	Aug 1	.13	Oct 13	1996
ANNUAL SEVEN-DAY MINIMUM	3.3	Dec 25	1.4	Jul 27	.14	Oct 8	1996
INSTANTANEOUS PEAK FLOW			169	May 15	225	Jul 1	1997
INSTANTANEOUS PEAK STAGE			12.20	May 15	13.07	Jul 1	1997
INSTANTANEOUS LOW FLOW			.51	Aug 2	.11	Oct 11	1996
ANNUAL RUNOFF (AC-FT)	12800		8730		11500		
ANNUAL RUNOFF (CFSM)	.63		.43		.56		
ANNUAL RUNOFF (INCHES)	8.51		5.80		7.65		
10 PERCENT EXCEEDS	47		33		44		
50 PERCENT EXCEEDS	9.0		6.0		8.4		
90 PERCENT EXCEEDS	4.2		2.7		2.8		

