

05288705 SHINGLE CREEK AT QUEEN AVE. IN MINNEAPOLIS, MN

LOCATION.-- Lat 45°03'00", long 93°18'36", in NE¹/₄NW¹/₄ 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 mi².

PERIOD OF RECORD.-- May 1996 to September 1999, May 2001 to current year.

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

REMARKS.-- Records good except those for estimated daily discharges, which are poor.

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	2.8	2.8	1.7	1.1	e0.34	e10	11	3.3	69	11	5.5	1.2
2	2.9	2.4	1.4	1.2	e0.41	e9.4	10	2.6	62	9.0	5.6	1.7
3	3.2	2.4	1.4	e0.90	e0.37	e8.2	9.6	2.2	53	8.0	5.0	1.4
4	2.6	4.2	1.7	e0.54	e0.36	e8.2	8.5	2.0	48	12	4.4	1.3
5	2.8	5.0	1.8	e0.37	e0.41	e8.6	8.6	1.5	53	11	3.3	25
6	3.3	4.8	1.8	e0.33	e0.42	e8.2	8.6	1.5	54	19	2.5	46
7	3.6	4.1	1.8	e0.29	e0.41	e7.6	7.5	0.92	44	34	4.0	32
8	4.6	4.1	1.8	e0.28	e0.40	e7.2	5.9	0.99	34	30	3.8	21
9	5.6	4.2	2.4	e0.28	e0.41	e7.2	4.6	5.7	94	25	3.4	11
10	6.3	4.5	2.4	e0.29	e0.40	e7.8	3.7	8.6	65	21	2.9	7.0
11	18	4.5	1.9	e0.30	e0.40	e4.0	3.6	4.8	79	52	2.9	5.0
12	10	5.6	1.6	e0.29	e0.39	e4.0	5.1	11	82	38	2.4	3.7
13	8.1	3.1	1.4	e0.31	e0.40	e4.4	4.0	18	75	37	1.8	2.9
14	6.5	4.3	1.4	e0.31	e0.38	e4.2	3.4	15	66	42	1.2	9.4
15	4.7	2.5	1.5	e0.32	e0.37	e4.1	2.6	8.1	55	34	1.3	52
16	4.0	2.7	1.6	e0.35	e0.39	e4.0	2.5	4.8	47	28	12	41
17	4.0	2.9	1.4	e0.40	e0.60	e4.5	2.2	45	40	24	9.2	33
18	3.6	2.8	1.4	e0.38	e1.1	e6.6	18	35	35	20	6.3	22
19	2.9	2.6	1.4	e0.38	e1.1	e10	30	23	30	17	4.2	12
20	2.6	2.0	1.3	e0.38	e1.1	e7.0	33	12	26	15	2.8	7.0
21	1.8	0.99	1.4	e0.40	e1.0	e4.7	41	9.9	21	12	2.0	13
22	1.5	1.1	1.4	e0.38	e1.0	e4.3	31	11	19	9.9	5.3	18
23	1.4	1.7	1.4	e0.38	e1.0	e4.0	18	43	23	7.9	2.9	16
24	1.0	1.5	1.3	e0.38	e1.0	4.0	10	47	32	6.6	2.1	21
25	1.1	1.5	1.2	e0.39	e0.96	14	21	45	24	5.6	1.8	17
26	1.2	1.5	1.2	e0.40	e0.94	22	16	38	16	4.8	3.4	12
27	1.6	1.6	4.1	e0.35	e2.0	25	11	48	13	4.3	3.4	8.1
28	2.3	1.5	4.1	e0.31	e5.0	38	8.4	36	12	6.0	1.6	5.5
29	3.1	1.4	2.6	e0.28	e11	29	5.6	51	10	10	1.2	4.0
30	4.1	1.7	1.9	e0.26	---	20	4.4	63	12	7.7	1.4	3.3
31	3.2	---	1.4	e0.28	---	14	---	68	---	6.2	1.2	---
TOTAL	124.4	85.99	55.1	12.81	34.06	314.2	348.8	665.91	1,293	568.0	110.8	453.5
MEAN	4.01	2.87	1.78	0.41	1.17	10.1	11.6	21.5	43.1	18.3	3.57	15.1
MAX	18	5.6	4.1	1.2	11	38	41	68	94	52	12	52
MIN	1.0	0.99	1.2	0.26	0.34	4.0	2.2	0.92	10	4.3	1.2	1.2
AC-FT	247	171	109	25	68	623	692	1,320	2,560	1,130	220	900
CFSM	0.14	0.10	0.06	0.01	0.04	0.36	0.41	0.76	1.53	0.65	0.13	0.54
IN.	0.16	0.11	0.07	0.02	0.04	0.41	0.46	0.88	1.71	0.75	0.15	0.60

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2004, BY WATER YEAR (WY)

MEAN	12.3	11.4	6.15	3.34	5.29	15.6	25.9	32.1	33.6	28.5	19.4	13.2
MAX	33.1	28.2	9.21	7.25	8.03	24.3	32.1	56.6	55.4	58.5	56.2	32.4
(WY)	(2003)	(1997)	(1997)	(1997)	(1998)	(1997)	(1998)	(2002)	(2002)	(2002)	(2002)	(2002)
MIN	4.01	2.87	1.78	0.41	1.17	10.1	11.6	13.3	7.47	7.92	3.57	2.92
(WY)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(2004)	(1997)	(1997)	(1996)	(2004)	(1996)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1996 - 2004	
ANNUAL TOTAL	6,314.19		4,066.57			
ANNUAL MEAN	17.3		11.1		18.3	
HIGHEST ANNUAL MEAN					27.9	2002
LOWEST ANNUAL MEAN					11.1	2004
HIGHEST DAILY MEAN	230	Jun 25	94	Jun 9	230	Jun 25, 2003
LOWEST DAILY MEAN	0.99	Nov 21	a0.26	Jan 30	b0.13	Oct 13, 1996
ANNUAL SEVEN-DAY MINIMUM	1.3	Dec 20	0.29	Jan 7	0.14	Oct 8, 1996
MAXIMUM PEAK FLOW			148	Jun 9	230	Jun 25, 2003
MAXIMUM PEAK STAGE			11.67	Jun 9	14.21	Jun 25, 2003
INSTANTANEOUS LOW FLOW			c0.26	Jan 30	b0.11	Oct 11, 1996
ANNUAL RUNOFF (AC-FT)	12,520		8,070		13,250	
ANNUAL RUNOFF (CFSM)	0.613		0.394		0.648	
ANNUAL RUNOFF (INCHES)	8.33		5.36		8.81	
10 PERCENT EXCEEDS	48		35		50	
50 PERCENT EXCEEDS	7.1		4.1		8.6	
90 PERCENT EXCEEDS	1.7		0.40		2.0	

- a Backwater from ice.
- b Minimum observed.
- c Daily mean, backwater from ice.
- e Estimated.

