04234000 FALL CREEK NEAR ITHACA, NY

LOCATION.--Lat 42°27'12", long 76°28'23", Tompkins County, Hydrologic Unit 04140201, on left bank in Forest Home, 0.2 mi east of Ithaca, 0.5 mi upstream from Cornell University dam, and 2.2 mi upstream from mouth.

DRAINAGE AREA.--126 mi^2.

PERIOD OF RECORD.--July 1908 to June 1909 (gage heights only), February 1925 to current year.

REVISED RECORDS.--WSP 874: 1935-38. WSP 1912: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 795.13 ft above NGVD of 1929. July 1908 to June 1909, nonrecording gage at bridge 1.2 mi downstream at different datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Diversion from point about 1 mi upstream from station by Cornell University for water supply and at several sites for irrigation purposes. Records of diversion from Fall Creek are in files of Cornell University. Telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15,500 ft^3/s, July 8, 1935, gage height, 9.52 ft, from average of computed flow over each of four dams; maximum gage height, 11.16 ft, Feb. 21, 1971 (ice jam); minimum discharge, 2.1 ft^3/s, Sept. 6, 7, 1999, gage height, 0.12 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,900 ft^3/s and maximum (*):

	Time	Discharge (ft^3/s)	Gage height (ft)	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 11	2130	2,040	3.78	0230	2,150	3.86
Dec 24	2330	1,990	3.74	0430	*2,320	3.99
Jan 16	1100	2,280	3.96	1830	2,190	3.89
Mar 3	0130	ice jam	*a6.54	0900	2,300	3.97

Minimum discharge, 38 ft^3/s, July 6, gage height, 0.69 ft.

a Backwater from ice.

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	106	337	417	374	e105	e140	379	238	333	53	339	532
2	98	289	370	323	e105	e300	565	276	248	48	217	317
3	105	283	296	360	e110	e500	392	754	239	44	178	244
4	99	250	259	458	e115	e900	383	e450	179	41	179	200
5	137	220	262	395	e110	1,550	351	e400	152	43	181	175
6	109	206	239	347	e112	2,020	304	e420	142	41	150	157
7	93	184	226	223	e120	1,280	294	e370	132	44	133	138
8	83	162	206	e225	e115	791	268	e290	119	170	118	146
9	78	143	222	e170	e110	545	239	e220	110	200	107	899
10	73	135	219	e140	e110	435	207	e195	104	92	99	713
11	70	136	1,220	155	e110	382	187	201	110	64	98	347
12	66	162	1,300	209	e106	380	177	171	94	57	95	247
13	61	248	551	e200	e104	308	762	169	86	79	584	208
14	60	239	396	e170	e102	261	1,650	146	84	238	286	179
15	215	200	361	e180	e100	275	612	182	93	597	174	158
16	236	186	364	e170	e96	260	412	251	80	370	139	144
17	131	241	371	e165	e102	233	335	166	96	307	128	358
18	105	274	394	e170	e100	239	319	144	153	580	127	1,880
19	132	465	347	e155	e98	213	381	185	97	224	106	626
20	148	1,460	307	e145	e96	213	333	138	80	159	123	359
21	136	637	265	e135	e130	505	280	693	69	124	710	281
22	151	428	259	e130	e160	346	384	252	74	111	406	231
23	129	337	439	e125	e120	261	435	324	88	746	210	199
24	121	304	1,210	e120	e130	310	362	1,170	66	269	166	171
25	119	490	1,340	e115	e110	708	287	513	57	150	140	155
26	113	352	649	e115	e110	615	508	580	58	131	121	146
27	736	294	486	e112	e100	1,240	408	369	53	943	108	132
28	881	324	397	e112	e100	895	315	833	50	979	106	131
29	769	787	362	e110	e110	567	271	353	81	686	199	126
30	733	487	500	e110	---	434	249	249	63	324	1,470	118
31	430	---	522	e105	---	363	---	225	---	348	1,490	---
TOTAL	6,523	10,260	14,756	6,023	3,196	17,469	12,049	10,927	3,390	8,262	8,687	9,717
MEAN	210	342	476	194	110	564	402	352	113	267	280	324
MAX	881	1,460	1,340	458	160	2,020	1,650	1,170	333	979	1,490	1,880
MIN	60	135	206	105	96	140	177	138	50	41	95	118
CFSM	1.67	2.71	3.78	1.54	0.87	4.47	3.19	2.80	0.90	2.12	2.22	2.57
IN.	1.93	3.03	4.36	1.78	0.94	5.16	3.56	3.23	1.00	2.44	2.56	2.87

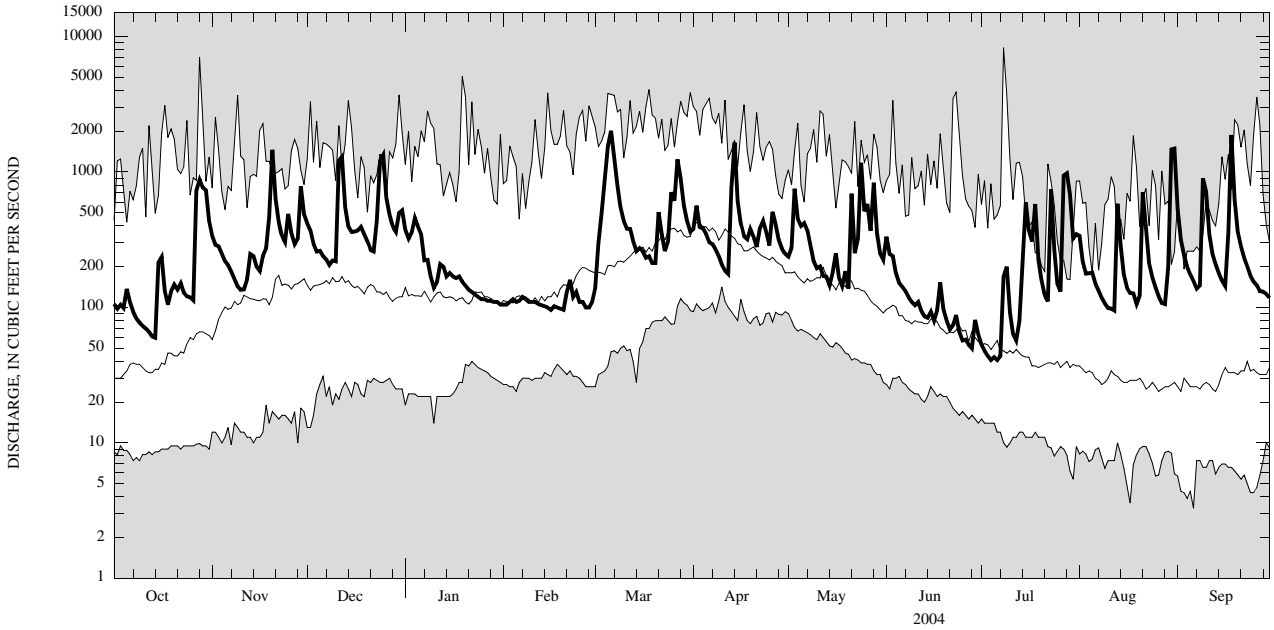
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2004, BY WATER YEAR (WY)

MEAN	102	177	209	191	218	412	410	214	122	74.8	54.0	67.7
MAX	594	497	555	575	595	1,037	1,313	532	615	608	280	561
(WY)	(1982)	(1928)	(1997)	(1998)	(1981)	(1936)	(1993)	(1996)	(1972)	(1935)	(2004)	(1977)
MIN	9.57	16.5	31.9	38.4	44.1	160	100	62.0	25.6	14.9	8.93	7.09
(WY)	(1965)	(1965)	(1961)	(1961)	(1934)	(1965)	(1946)	(1934)	(1999)	(1999)	(1965)	(1964)

04234000 FALL CREEK NEAR ITHACA, NY—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1925 - 2004	
ANNUAL TOTAL	92,617		111,259			
ANNUAL MEAN	254		304		188	
HIGHEST ANNUAL MEAN					304	2004
LOWEST ANNUAL MEAN					83.6	1965
HIGHEST DAILY MEAN	1,640	Apr 5	2,020	Mar 6	8,280	Jul 8, 1935
LOWEST DAILY MEAN	32	Aug 29	41	Jul 4	3.3	Sep 6, 1999
ANNUAL SEVEN-DAY MINIMUM	38	Aug 23	45	Jul 1	4.6	Aug 31, 1999
ANNUAL RUNOFF (CFSM)	2.01		2.41		1.49	
ANNUAL RUNOFF (INCHES)	27.34		32.85		20.25	
10 PERCENT EXCEEDS	581		629		420	
50 PERCENT EXCEEDS	153		208		100	
90 PERCENT EXCEEDS	56		96		23	

e Estimated



2004 WATER YEAR DAILY MEAN DISCHARGE (BOLD) WITH DAILY MEDIAN FOR PERIOD OF RECORD.
SHADED AREAS SHOW HIGHEST AND LOWEST DAILY MEAN FOR PERIOD OF RECORD THROUGH PREVIOUS WATER YEAR.