01389500 PASSAIC RIVER AT LITTLE FALLS, NJ

LOCATION.--Lat 40°53'05", long 74°13'34", Passaic County, Hydrologic Unit 02030103, on left bank 0.6 mi downstream from Beatties Dam in Little Falls, and 1.0 mi upstream from Peckman River.

DRAINAGE AREA.--762 mi^2. Area at site used prior to Oct. 1, 1955, 799 mi^2.

PERIOD OF RECORD.--September 1897 to current year. Monthly discharge only for September 1897, published in WSP 1302. Published as "at Paterson", September 1897 to September 1955.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 120.00 ft above NGVD of 1929 (levels by Passaic Valley Water Commission). Prior to Jan. 8, 1933, nonrecording gage and Jan. 8, 1933, to Sept. 30, 1955, water-stage recorder, at site 3.7 mi downstream at NGVD of 1929 (levels from New Jersey Geological Survey bench mark).

REMARKS.--Records good. Significant fluctuations at medium and low flow due to operation of hydroelectric plant at Beatties Dam. Flow regulated by reservoirs in Rockaway, Pequannock, Wanaque, and Ramapo River subbasins (see Passaic River basin, reservoirs in). Large diversions for municipal supply from Passaic River above Beatties Dam, and from Rockaway, Pequannock, Pompton, Ramapo, and Wanaque Rivers (see Passaic River basin, diversions and Hackensack River basin, diversions). In addition, the New Jersey-American Water Company (formerly Commonwealth Water Co.) diverts from Canoe Brook near Summit and from Passaic River (see Passaic River basin, diversions); that company, the city of East Orange, and others also divert water for municipal supply by pumping wells in the basin. Several measurements of water temperature, other than those published, were made during the year. National Weather Service rain-gage and gage-height telephone telemetry and USGS satellite gage-height telemetry at station.

COOPERATION.--Gage-height record collected in cooperation with the Passaic Valley Water Commission.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jan 16	0900	5,530	6.40	Apr 4	2315	*12,100	*10.11

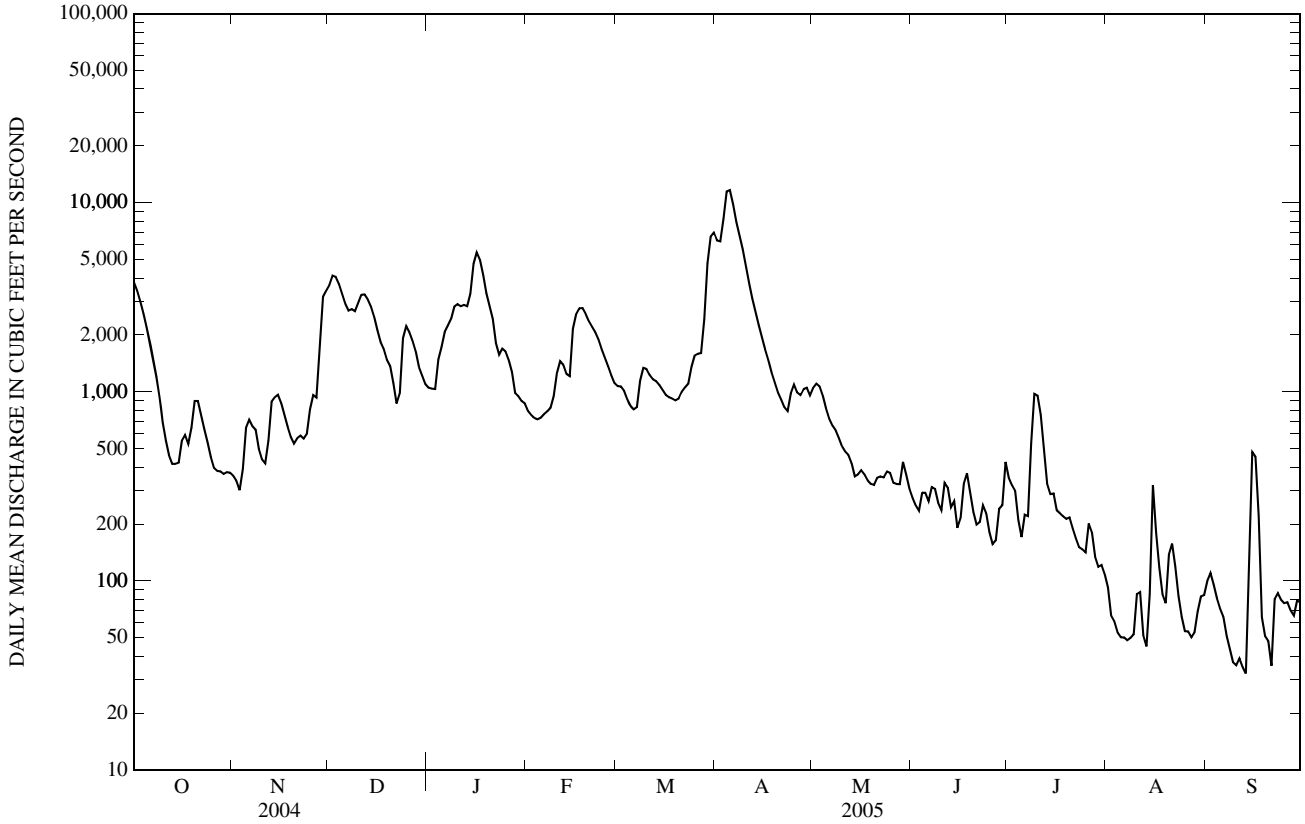
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,810	360	3,670	1,050	795	1,070	6,310	1,050	275	352	92	100
2	3,450	338	4,110	1,040	755	1,070	6,250	1,100	251	321	65	110
3	3,020	302	4,050	1,040	728	1,010	8,220	1,070	235	299	61	95
4	2,600	390	3,720	1,490	716	912	11,500	955	293	210	53	81
5	2,190	645	3,300	1,730	730	844	11,700	817	292	171	50	72
6	1,790	713	2,920	2,080	761	809	9,840	722	265	224	50	65
7	1,470	659	2,690	2,240	789	831	7,950	665	314	220	48	51
8	1,210	631	2,740	2,440	823	1,150	6,730	628	307	533	50	44
9	946	500	2,670	2,820	951	1,340	5,690	571	259	977	52	37
10	691	440	2,950	2,910	1,260	1,320	4,650	516	237	957	85	36
11	553	418	3,260	2,840	1,450	1,230	3,770	483	330	756	87	39
12	462	553	3,280	2,880	1,390	1,170	3,120	464	311	494	52	35
13	416	889	3,080	2,840	1,240	1,140	2,650	420	245	327	45	32
14	416	937	2,830	3,300	1,210	1,090	2,260	358	264	288	85	153
15	422	965	2,500	4,770	2,160	1,020	1,960	366	191	290	321	481
16	552	872	2,120	5,470	2,570	964	1,680	385	215	236	180	455
17	592	755	1,840	5,000	2,760	937	1,480	366	326	228	117	221
18	530	655	1,690	4,160	2,770	921	1,270	341	370	220	85	64
19	648	578	1,480	3,330	2,580	902	1,120	326	292	213	76	51
20	895	533	1,370	2,830	2,360	921	992	321	231	217	137	48
21	895	568	1,110	2,440	2,210	1,000	911	351	198	190	157	36
22	757	586	867	1,810	2,070	1,060	830	357	205	168	119	80
23	637	567	981	1,570	1,900	1,100	791	352	252	151	83	86
24	539	600	1,920	1,690	1,680	1,360	980	379	228	147	65	80
25	453	811	2,230	1,640	1,520	1,560	1,090	372	182	142	54	76
26	396	962	2,070	1,470	1,370	1,590	992	330	157	201	54	77
27	382	932	1,860	1,270	1,220	1,610	963	325	164	180	50	70
28	380	1,820	1,640	987	1,110	2,420	1,030	325	241	134	53	66
29	368	3,180	1,350	948	---	4,780	1,050	426	251	119	69	79
30	376	3,420	1,220	895	---	6,620	958	365	426	121	83	77
31	374	---	1,100	870	---	6,940	---	308	---	108	84	---
TOTAL	32,220	25,579	72,618	71,850	41,878	50,691	108,737	15,814	7,807	9,194	2,662	2,997
MEAN	1,039	853	2,343	2,318	1,496	1,635	3,625	510	260	297	85.9	99.9
MAX	3,810	3,420	4,110	5,470	2,770	6,940	11,700	1,100	426	977	321	481
MIN	368	302	867	870	716	809	791	308	157	108	45	32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1898 - 2005, BY WATER YEAR (WY)

MEAN	620	933	1,281	1,332	1,409	2,321	2,063	1,288	795	528	542	536
MAX	5,613	4,757	4,497	4,039	3,787	6,755	5,761	4,554	4,290	3,124	2,859	3,561
(WY)	(1904)	(1908)	(1903)	(1979)	(1973)	(1936)	(1983)	(1989)	(1972)	(1945)	(1942)	(1971)
MIN	44.5	56.5	44.8	42.3	31.0	131	167	227	64.5	60.3	30.4	28.9
(WY)	(1931)	(1999)	(1999)	(2002)	(2002)	(2002)	(2002)	(1965)	(1999)	(1954)	(1923)	(1964)

01389500 PASSAIC RIVER AT LITTLE FALLS, NJ—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1898 - 2005	
ANNUAL TOTAL	451,317		442,047			
ANNUAL MEAN	1,233		1,211		1,136	
HIGHEST ANNUAL MEAN					2,394	1903
LOWEST ANNUAL MEAN					199	2002
HIGHEST DAILY MEAN	4,110	Dec 2	11,700	Apr 5	28,000	Oct 10, 1903
LOWEST DAILY MEAN	139	Jul 11	32	Sep 13	0.00	Jul 3, 1904
ANNUAL SEVEN-DAY MINIMUM	166	Jul 5	39	Sep 7	13	Sep 19, 1932
MAXIMUM PEAK FLOW			12,100	Apr 4	31,700a	Oct 10, 1903
MAXIMUM PEAK STAGE			10.11	Apr 4	12.91b	Apr 7, 1984
INSTANTANEOUS LOW FLOW			30	Sep 21	0.00	Jul 3, 1904
10 PERCENT EXCEEDS	2,310		2,910		2,750	
50 PERCENT EXCEEDS	1,010		716		630	
90 PERCENT EXCEEDS	379		80		119	

a Maximum discharge recorded at present site, no peak stage available
b Maximum stage recorded since 1956, at present site