



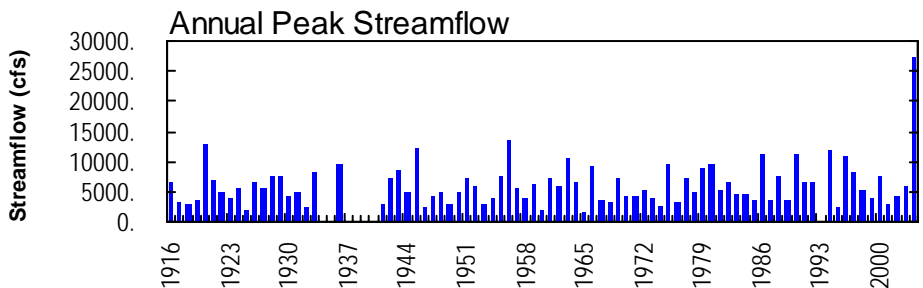
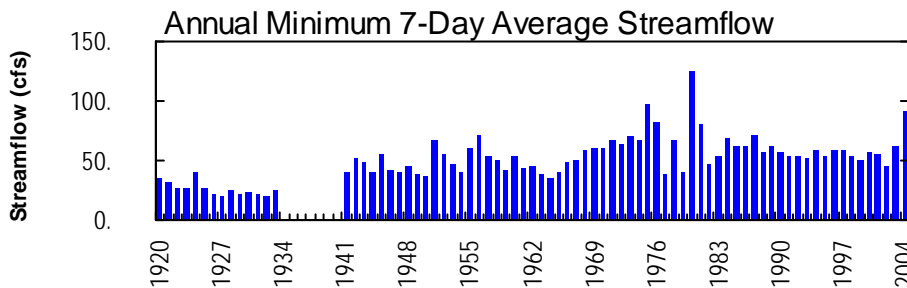
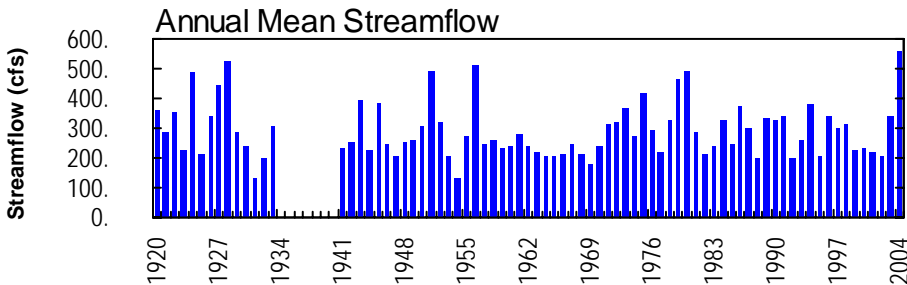
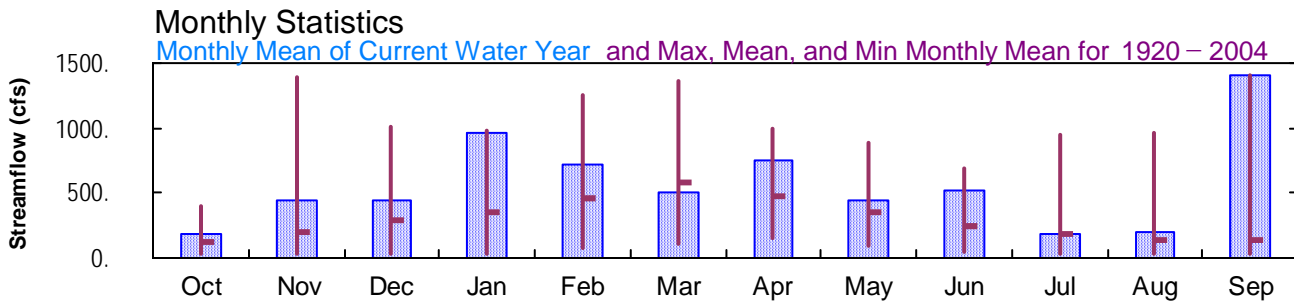
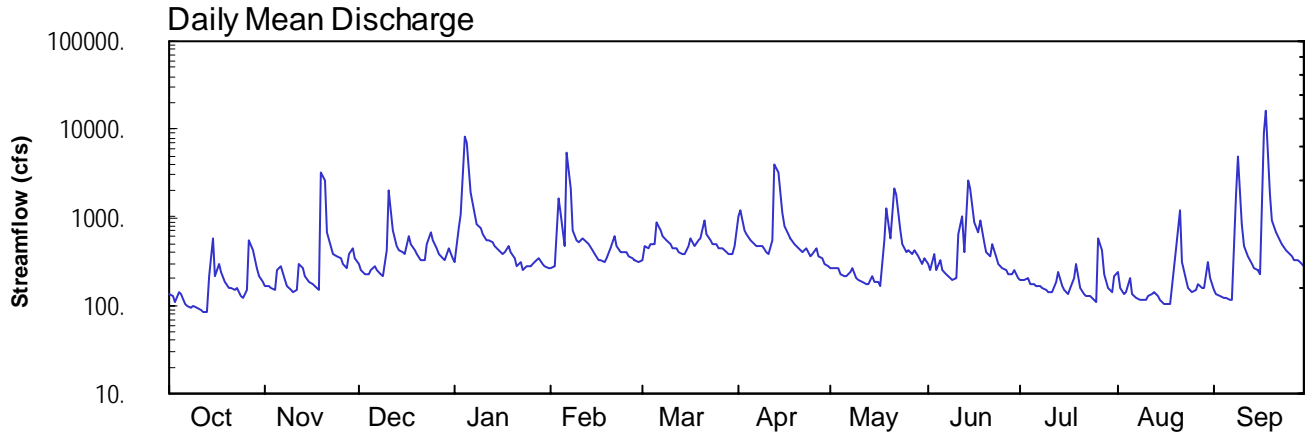
2004 Water Year CHARTIERS CREEK BASIN

03085500 Chartiers Creek at Carnegie, PA

Latitude: 40° 24 ' 02"
Allegheny County

Longitude: 080° 05 ' 48"
Datum: 755.45 feet

Hydrologic Unit Code: 05030101
Drainage Area: 257. mi²



NO PHOTOS AVAILABLE FOR THIS SITE

CHARTIERS CREEK BASIN

03085500 CHARTIERS CREEK AT CARNEGIE, PA

LOCATION.--Lat 40°24'02", long 80°05'48", Allegheny County, Hydrologic Unit 05030101, on left bank 100 ft downstream from Hammond Street bridge, 0.3 mi downstream from Robinson Run, 0.8 mi upstream from Campbells Run, and 8.9 mi upstream from mouth.

DRAINAGE AREA.--257 mi².

PERIOD OF RECORD.--October 1919 to September 1933, October 1940 to current year. Published as "at Crafton" October 1971 to September 1975. Monthly discharge only for some periods, published in WSP 1305. June 1915 to September 1919 (gauge heights and discharge measurements only) in reports of Water Supply Commission of Pennsylvania.

GAGE.--Water-stage recorder and concrete weir control. Datum of gage is 755.45 ft above National Geodetic Vertical Datum of 1929. Prior to Dec. 15, 1931, nonrecording gage at site 0.5 mi downstream at different datum. Jan. 8, 1932 to Sept. 30, 1933, nonrecording gage at site 1.0 mi downstream at different datum. Nov. 20, 1940 to Aug. 18, 1967, water-stage recorder at site 400 ft upstream at datum 1.00 ft higher. Oct. 1, 1971 to Sept. 30, 1975, nonrecording gage at site 4.6 mi downstream, at datum 725.99 ft above National Geodetic Vertical Datum of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Some regulations at low flow by mine drainage, reservoirs, and industrial usage above station. Several measurements of water temperature were made during the year. U.S. Army Corps of Engineers satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Sept. 2, 1912 reached a discharge of 20,000 ft³/s, from U.S. Army Corps of Engineers.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than a base discharge of 2,500 ft³/s and maximum (*):

Date	Time	Discharge ft ³ /s	Gage Height (ft)	Date	Time	Discharge ft ³ /s	Gage Height (ft)
Nov. 19	1900	6,800	9.20	May 21	1600	3,270	5.61
Dec. 11	0300	2,960	5.28	June 14	2100	3,960	6.35
Jan. 5	0200	9,730	12.13	June 15	1800	4,270	6.67
Feb. 3	2100	2,920	5.23	Sept. 8	2400	8,380	10.78
Feb. 6	1700	7,440	9.84	Sept. 17	2145	*27,400	*25.05
Apr. 13	1900	7,150	9.55				

**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	138	170	294	309	267	320	1050	268	293	193	235	152
2	126	165	255	739	276	458	1180	266	255	196	154	136
3	111	155	232	1100	1610	439	715	261	376	205	135	128
4	139	146	222	8060	1110	485	640	230	251	179	142	119
5	133	246	251	6950	477	488	550	217	320	172	199	120
6	106	286	286	1890	5300	900	488	212	256	164	134	114
7	99	197	254	1090	2140	705	461	243	223	163	124	118
8	96	168	221	843	705	625	473	264	201	159	116	1820
9	96	152	216	735	549	557	464	205	191	149	114	4850
10	92	144	430	632	519	496	400	189	206	143	116	842
11	88	153	2050	558	565	453	375	183	641	146	129	479
12	86	294	699	546	512	440	543	171	1030	185	136	356
13	85	265	475	509	e500	394	3980	175	400	236	145	293
14	215	212	432	460	e420	376	3310	220	2650	167	127	268
15	581	186	400	431	e385	373	1160	181	2120	149	113	248
16	212	177	376	382	e335	472	791	184	893	134	106	229
17	287	163	616	408	e325	593	651	165	689	160	104	9050
18	234	152	502	e459	e310	482	576	548	923	204	103	15900
19	186	3200	418	e395	e340	546	508	1240	509	299	263	1780
20	157	2620	379	e336	446	577	466	566	406	156	432	909
21	155	679	334	e281	617	947	418	2160	361	136	1190	669
22	152	474	328	e308	468	657	400	1780	500	128	310	562
23	154	383	484	e255	394	552	455	724	363	125	192	483
24	131	370	687	e282	405	497	369	491	298	121	161	427
25	120	343	551	e286	393	492	373	392	270	111	146	392
26	149	289	438	e287	355	449	445	421	249	565	153	363
27	551	263	384	e324	336	441	370	385	228	434	178	330
28	414	388	353	e350	320	411	337	422	224	232	162	321
29	272	444	332	300	315	383	296	371	246	161	158	306
30	211	340	444	282	---	392	276	290	208	141	316	283
31	184	---	352	265	---	477	---	337	---	211	200	---
TOTAL	5760	13224	13695	30052	20694	15877	22520	13761	15780	5924	6293	42047
MEAN	186	441	442	969	714	512	751	444	526	191	203	1402
MAX	581	3200	2050	8060	5300	947	3980	2160	2650	565	1190	15900
MIN	85	144	216	255	267	320	276	165	191	111	103	114
CFSM	0.72	1.72	1.72	3.77	2.78	1.99	2.92	1.73	2.05	0.74	0.79	5.45
IN.	0.83	1.91	1.98	4.35	3.00	2.30	3.26	1.99	2.28	0.86	0.91	6.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2004, BY WATER YEAR (WY)

MEAN	115	197	284	358	456	576	471	353	242	179	144	144
MAX	393	1400	1003	986	1255	1361	999	887	694	951	960	1402
(WY)	1980	1986	1951	1924	1926	1945	1961	1924	1980	1928	1980	2004
MIN	31.3	35.5	36.5	37.8	80.9	101	154	92.7	46.5	30.0	28.4	24.1
(WY)	1933	1931	1931	1931	1964	1969	1925	1926	1926	1926	1930	1927

e Estimated.

CHARTIERS CREEK BASIN

03085500 CHARTIERS CREEK AT CARNEGIE, PA--Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1920 - 2004	
ANNUAL TOTAL	140767		205627			
ANNUAL MEAN	386		562		292	
HIGHEST ANNUAL MEAN					562	
LOWEST ANNUAL MEAN					132	
HIGHEST DAILY MEAN	3220	May 10	15900	Sep 18	15900	Sep 18 2004
LOWEST DAILY MEAN	85	Oct 13	85	Oct 13	16	Aug 9 1926
ANNUAL SEVEN-DAY MINIMUM	92	Oct 7	92	Oct 7	19	Sep 26 1927
MAXIMUM PEAK FLOW			a 27400	Sep 17	a 27400	Sep 17 2004
MAXIMUM PEAK STAGE			25.05	Sep 17	25.05	Sep 17 2004
INSTANTANEOUS LOW FLOW			84	Oct 12-14	b 16	Aug 9 1926 ^c
ANNUAL RUNOFF (CFSM)	1.50		2.19		1.14	
ANNUAL RUNOFF (INCHES)	20.38		29.76		15.46	
10 PERCENT EXCEEDS	687		806		617	
50 PERCENT EXCEEDS	286		326		164	
90 PERCENT EXCEEDS	136		136		56	

a From rating curve extended above 13,100 ft³/s on basis of contracted-opening measurement of peak flow.

b Minimum observed.

c Also at times in September 1932.