



2005 Water Year
CHARTIERS CREEK BASIN
03085500 Chartiers Creek at Carnegie, PA

Latitude: 40° 24 ' 02"

Longitude: 080° 05 ' 48"

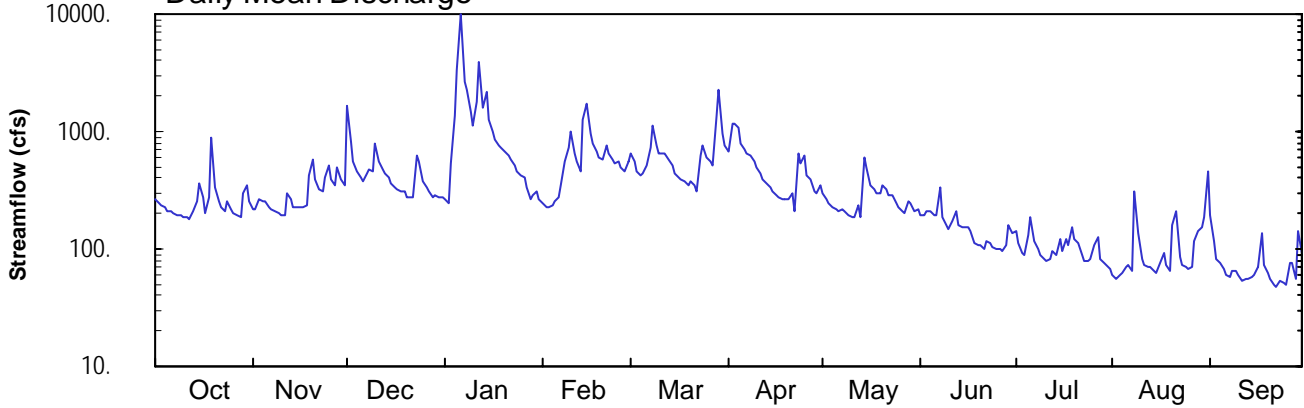
Hydrologic Unit Code: 05030101

Allegheny County

Datum: 755.45 feet

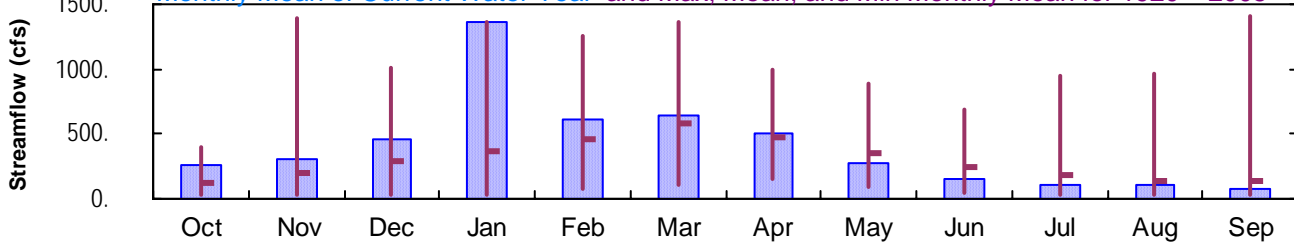
Drainage Area: 257. mi²

Daily Mean Discharge

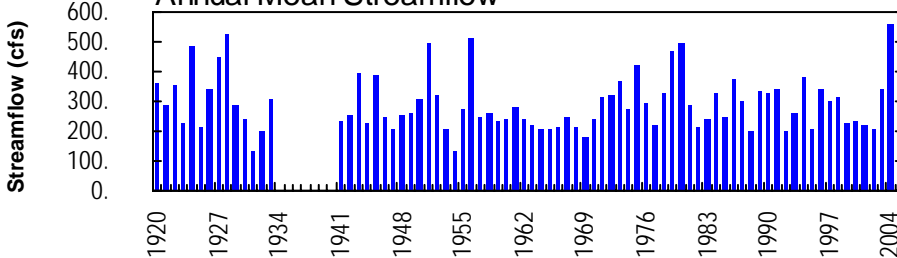


Monthly Statistics

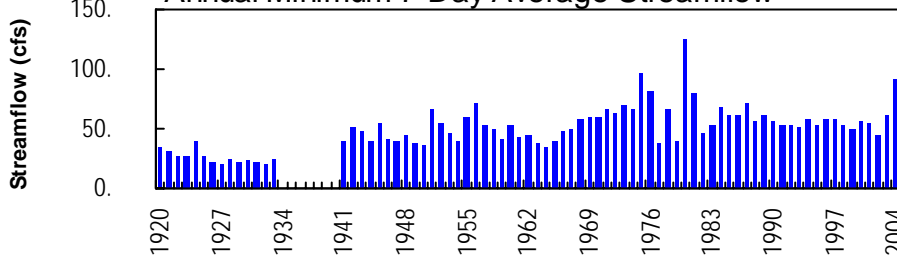
Monthly Mean of Current Water Year and Max, Mean, and Min Monthly Mean for 1920 – 2005



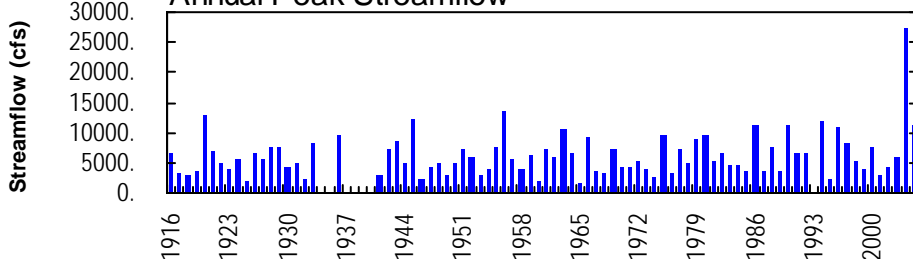
Annual Mean Streamflow



Annual Minimum 7-Day Average Streamflow



Annual Peak Streamflow



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)
Jan. 6	1100	*11,300	*13.68	Jan. 14	1100	2,700	4.76
Jan. 8	1600	2,960	5.08	Feb. 15	0000	2,710	4.77
Jan. 12	1000	5,240	7.64	Mar. 29	0500	3,150	5.33

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	263	215	1670	261	e250	646	665	296	198	143	59	193
2	247	217	812	246	e225	558	1150	263	191	112	56	118
3	232	268	548	530	e230	466	1180	246	209	94	59	82
4	225	253	453	1390	e240	424	1080	231	213	88	62	76
5	213	254	401	3410	e260	439	799	220	195	132	70	68
6	208	228	372	9920	e280	524	713	211	197	185	73	60
7	202	217	446	2680	e345	721	660	222	341	116	64	57
8	198	210	473	2310	559	1130	619	208	190	100	316	65
9	192	199	455	1500	736	755	552	191	160	90	138	65
10	187	193	777	1100	983	659	487	185	149	83	83	61
11	185	195	565	1760	645	647	433	187	174	79	72	53
12	183	304	481	3860	549	639	398	234	208	81	72	57
13	212	267	446	1600	465	582	367	190	158	97	70	56
14	257	228	403	2150	1280	509	333	606	154	90	66	57
15	367	230	359	1250	1700	444	307	494	156	121	63	61
16	280	226	334	995	970	415	285	354	153	96	77	69
17	199	227	325	859	784	395	275	318	141	122	93	134
18	277	239	307	749	673	375	270	303	112	107	72	73
19	888	425	305	718	605	353	262	297	107	154	65	62
20	333	580	272	673	579	373	261	344	107	119	159	56
21	255	397	271	625	756	344	301	318	102	113	213	49
22	226	327	276	e570	649	316	208	291	116	90	87	48
23	211	309	630	e505	573	634	656	287	111	79	73	54
24	257	412	549	e460	542	747	528	249	104	79	70	52
25	222	520	372	e430	551	610	618	226	101	83	67	50
26	202	389	333	e400	497	547	431	209	100	110	72	76
27	196	344	308	e330	459	508	397	200	98	124	118	75
28	189	486	277	e270	562	1370	311	258	109	81	140	55
29	300	390	289	e290	---	2250	294	245	162	77	156	144
30	351	352	276	e305	---	963	344	211	138	74	184	93
31	252	---	273	e270	---	756	---	216	---	68	462	---
TOTAL	8009	9101	14058	42416	16947	20099	15184	8310	4654	3187	3431	2219
MEAN	258	303	453	1368	605	648	506	268	155	103	111	74.0
MAX	888	580	1670	9920	1700	2250	1180	606	341	185	462	193
MIN	183	193	271	246	225	316	208	185	98	68	56	48
CFSM	1.01	1.18	1.76	5.32	2.36	2.52	1.97	1.04	0.60	0.40	0.43	0.29
IN.	1.16	1.32	2.03	6.14	2.45	2.91	2.20	1.20	0.67	0.46	0.50	0.32

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2005, BY WATER YEAR (WY)

	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929	1930	1931	1932	1933
MEAN	117	199	286	370	458	577	472	352	241	178	143	143	143	143
MAX	393	1400	1003	1368	1255	1361	999	887	694	951	960	1402	1402	1402
(WY)	1980	1986	1951	2005	1926	1945	1961	1924	1980	1928	1980	2004	2004	2004
MIN	31.3	35.5	36.5	37.8	80.9	101	154	92.7	46.5	30.0	28.4	24.1	24.1	24.1
(WY)	1933	1931	1931	1931	1964	1969	1925	1926	1926	1926	1930	1927	1927	1927

e Estimated.

CHARTIERS CREEK BASIN

03085500 CHARTIERS CREEK AT CARNEGIE, PA--Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1920 - 2005	
ANNUAL TOTAL	204116		147615			
ANNUAL MEAN	558		404		294	
HIGHEST ANNUAL MEAN					562	2004
LOWEST ANNUAL MEAN					132	1954
HIGHEST DAILY MEAN	15900	Sep 18	9920	Jan 6	15900	Sep 18 2004
LOWEST DAILY MEAN	103	Aug 18	48	Sep 22	16	Aug 9 1926
ANNUAL SEVEN-DAY MINIMUM	119	Aug 12	53	Sep 19	19	Sep 26 1927
MAXIMUM PEAK FLOW			11300	Jan 6	a27400	Sep 17 2004
MAXIMUM PEAK STAGE			13.68	Jan 6	25.05	Sep 17 2004
INSTANTANEOUS LOW FLOW			48	Sep 11b	c16	Aug 9 1926d
ANNUAL RUNOFF (CFSM)	2.17		1.57		1.14	
ANNUAL RUNOFF (INCHES)	29.55		21.37		15.53	
10 PERCENT EXCEEDS	797		740		620	
50 PERCENT EXCEEDS	326		260		166	
90 PERCENT EXCEEDS	155		72		56	

- a From rating curve extended above 13,100 ft³/s on basis of contracted-opening measurement of peak flow.
- b Also Sept. 20-25.
- c Minimum observed.
- d Also at times in September 1932.

