Water-Data Report 2013

01420500 BEAVER KILL AT COOKS FALLS, NY

Upper Delaware Basin
East Branch Delaware Subbasin

LOCATION.--Lat 41°56′47″, long 74°58′47″ referenced to North American Datum of 1983, Delaware County, NY, Hydrologic Unit 02040102, on left bank 125 ft downstream from bridge on Cooks Brook Road in Cooks Falls, and 5.5 mi downstream from Willowemoc Creek.

DRAINAGE AREA.--241 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1913 to current year.

REVISED RECORDS.--WSP 521: Drainage area. WSP 781: 1933(M). WSP 891: 1936-39(M). WSP 1202: 1950. WSP 1232: 1950(M).

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,151.70 ft above NGVD of 1929. Prior to Oct. 1, 1933, nonrecording gage at site 125 ft upstream at same datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Satellite and telephone gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 62,400 ft^3/s, June 28, 2006, gage height, 20.55 ft, from floodmark in gage house, from rating curve extended above 16,000 ft^3/s on basis of slope-area measurement at gage height 15.52 ft; minimum discharge, 16 ft^3/s, Nov. 22, 23, 1964.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,700 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 21	1500	7,630	8.96
Jan 31	1015	5,950	8.06
Mar 12	1745	*10,400	*10.18
Jun 14	0400	5,450	7.76

Minimum discharge, 107 ft^3/s, Aug. 7, gage height, 1.13 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	687	1,860	259	e453	1,990	322	685	478	684	348	132	332
2	631	1,480	261	e412	1,200	273	652	425	591	750	222	560
3	694	1,230	322	e387	e889	248	513	387	528	569	168	1,270
4	677	1,040	306	e367	e729	230	455	359	461	425	136	673
5	801	905	298	e350	e629	222	467	337	403	358	121	492
6	648	792	275	e340	e563	217	486	314	371	313	111	410
7	574	712	264	e331	e513	211	462	297	474	280	109	348
8	538	647	369	e318	e473	222	518	419	603	277	131	311
9	483	583	430	e311	e440	216	684	632	440	317	2,260	276
10	481	530	467	e299	e398	239	1,290	484	481	274	1,770	259
11	495	488	770	283	449	272	1,660	843	1,980	264	831	319
12	435	454	625	341	423	3,960	1,490	1,140	1,380	227	571	522
13	396	676	549	469	382	3,680	1,440	808	2,160	219	528	638
14	410	685	511	871	e350	1,800	1,100	680	4,100	214	482	468
15	420	551	485	999	e324	1,200	913	605	2,470	199	387	385
16	453	500	465	839	e292	958	842	549	1,520	180	336	343
17	395	465	484	732	e260	784	904	482	1,150	166	300	306
18	365	436	1,240	e620	e242	656	759	439	902	155	273	278
19	1,680	420	1,100	e514	e246	645	770	425	744	146	256	258
20	1,940	403	861	e428	e241	576	2,430	424	613	143	237	241
21	1,270	385	3,670	e368	e237	506	1,500	382	530	132	220	227
22	995	366	2,780	e321	e233	470	1,160	650	468	129	208	277
23	974	352	1,630	e292	e241	433	977	813	422	183	238	238
24	1,330	351	1,210	e272	e239	405	863	1,160	385	165	193	208
25	1,210	328	1,000	e263	228	394	772	1,120	372	135	178	191
26	1,080	311	839	e261	213	380	659	1,330	347	121	174	180
27	959	302	e746	e263	267	370	589	940	318	114	663	171
28	867	292	e653	e280	392	368	537	795	686	202	372	164
29	865	276	e591	e324	---	351	525	999	463	217	339	157
30	2,580	266	e535	682	---	344	571	1,050	347	147	310	152
31	2,690	---	e490	3,800	---	384	---	810	---	128	263	---
Total	28,023	18,086	24,485	16,790	13,083	21,336	26,673	20,576	26,393	7,497	12,519	10,654
Mean	904	603	790	542	467	688	889	664	880	242	404	355
Max	2,690	1,860	3,670	3,800	1,990	3,960	2,430	1,330	4,100	750	2,260	1,270
Min	365	266	259	261	213	211	455	297	318	114	109	152
Cfsm	3.75	2.50	3.28	2.25	1.94	2.86	3.69	2.75	3.65	1.00	1.68	1.47
In.	4.33	2.79	3.78	2.59	2.02	3.29	4.12	3.18	4.07	1.16	1.93	1.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	428	614	662	547	492	988	1,249	686	421	290	241	286
Max	1,535	1,427	1,967	1,769	2,026	2,485	2,581	1,584	1,830	1,329	1,206	1,828
(WY)	(1978)	(1973)	(1997)	(1996)	(1981)	(1977)	(1940)	(1989)	(2006)	(1945)	(2011)	(2011)
Min	31.3	42.4	140	93.5	107	262	347	222	107	54.0	40.4	31.8
(WY)	(1965)	(1965)	(1923)	(1981)	(1920)	(2006)	(1946)	(2001)	(1991)	(1962)	(1962)	(1964)

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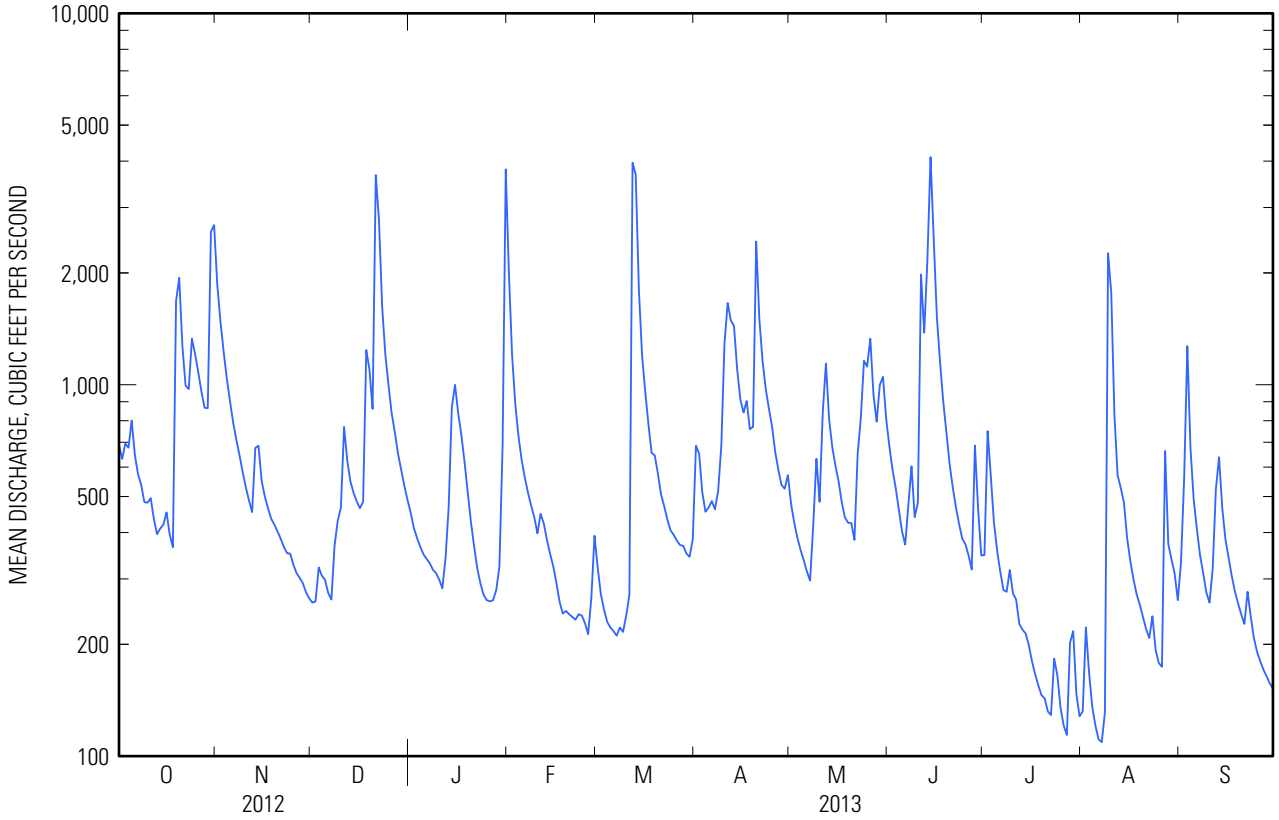
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1913 - 2013	
Annual total	219,625		226,115			
Annual mean	600		619		575	
Highest annual mean					1,060	2011
Lowest annual mean					277	1965
Highest daily mean	6,790	May 15	4,100	Jun 14	23,500	Sep 18, 2004
Lowest daily mean	84	Sep 3	109	Aug 7	23	Sep 14, 1913
Annual seven-day minimum	100	Aug 29	140	Jul 21	26	Sep 21, 1964
Annual runoff (cfsm)	2.49		2.57		2.39	
Annual runoff (inches)	33.90		34.90		32.41	
10 percent exceeds	1,100		1,200		1,240	
50 percent exceeds	436		440		331	
90 percent exceeds	138		214		88