01420500 BEAVER KILL AT COOKS FALLS, NY

Upper Delaware Basin
East Branch Delaware Subbasin

LOCATION.--Lat 41°56′47″, long 74°58′48″ referenced to North American Datum of 1927, 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 and temperature 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 3	1145	4,730	7.30
Jan 25	1815	11,900	10.78
Mar 23	0430	*14,400	a*11.64

a Recorded; outside gage height was 12.22 ft, from crest-stage gage.

Minimum discharge, 56 ft^3/s, Sept. 26, 27, gage height, 0.63 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	172	1,040	394	e546	e566	214	2,000	396	190	137	83	107
2	157	831	367	e486	e525	201	1,550	374	204	130	85	101
3	195	726	2,430	e377	e516	202	1,280	395	172	123	82	96
4	194	640	1,620	e407	e465	199	1,070	399	157	117	80	92
5	176	584	1,120	e407	e420	193	901	360	152	111	92	90
6	163	557	930	e388	e389	188	802	328	227	107	95	85
7	176	498	775	e369	e326	199	712	302	236	102	82	81
8	195	458	687	e352	e337	235	631	391	173	234	74	79
9	180	421	698	e303	e331	299	802	389	178	303	71	78
10	203	393	659	e252	e313	357	646	323	338	206	71	79
11	191	365	554	e279	e302	500	555	292	244	180	70	77
12	171	342	494	e311	e276	1,020	508	412	229	138	67	75
13	170	323	520	e291	e256	1,800	470	402	1,180	122	69	78
14	170	344	954	e277	e251	3,940	441	373	663	138	67	78
15	164	356	753	e266	e244	2,850	416	345	481	133	67	75
16	170	323	722	e273	e236	2,300	417	315	389	133	111	72
17	168	295	601	e264	e224	1,970	505	297	390	132	100	75
18	160	278	508	e357	e214	1,850	434	296	346	114	80	73
19	153	269	e500	e350	e207	1,840	397	329	305	109	72	69
20	149	1,080	e470	e303	e196	1,910	371	295	276	130	70	67
21	151	825	e429	e272	e187	2,010	349	265	248	136	65	64
22	145	632	e389	e259	e186	2,230	331	248	233	205	198	62
23	146	552	e360	e226	e187	7,980	310	257	261	164	757	62
24	1,230	512	e375	e247	e185	2,930	292	237	228	218	442	61
25	1,940	486	e378	4,450	e187	1,870	378	218	206	172	295	59
26	963	477	e379	4,090	e192	1,600	467	205	186	137	267	57
27	722	447	1,260	1,830	e253	1,220	663	192	181	119	209	60
28	1,580	440	1,020	1,230	e225	1,040	527	264	174	105	171	125
29	1,940	410	726	e862	---	2,660	463	219	163	99	146	282
30	1,230	398	e616	e701	---	2,700	420	192	146	91	128	706
31	1,030	---	e598	e635	---	3,020	---	176	---	86	115	---
Total	14,554	15,302	22,286	21,660	8,196	51,527	19,108	9,486	8,556	4,431	4,381	3,165
Mean	469	510	719	699	293	1,662	637	306	285	143	141	106
Max	1,940	1,080	2,430	4,450	566	7,980	2,000	412	1,180	303	757	706
Min	145	269	360	226	185	188	292	176	146	86	65	57
Cfsm	1.95	2.12	2.98	2.90	1.21	6.90	2.64	1.27	1.18	0.59	0.59	0.44
In.	2.25	2.36	3.44	3.34	1.27	7.95	2.95	1.46	1.32	0.68	0.68	0.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	411	615	653	549	494	984	1,258	678	410	288	230	265
Max	1,535	1,427	1,967	1,769	2,026	2,485	2,581	1,584	1,830	1,329	1,047	1,661
(WY)	(1978)	(1973)	(1997)	(1996)	(1981)	(1977)	(1940)	(1989)	(2006)	(1945)	(2004)	(2004)
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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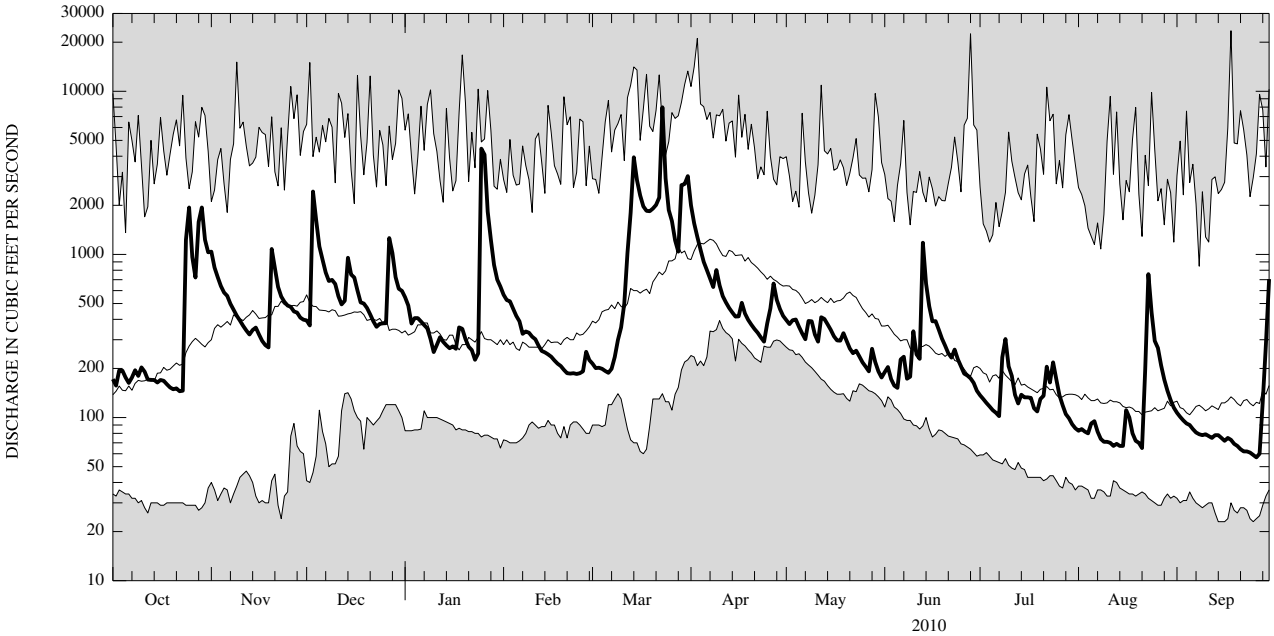
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1913 - 2010	
Annual total	243,571		182,652			
Annual mean	667		500		569	
Highest annual mean					937	1928
Lowest annual mean					277	1965
Highest daily mean	5,000	Jul 30	7,980	Mar 23	23,500	Sep 18, 2004
Lowest daily mean	123	Sep 26	57	Sep 26	23	Sep 14, 1913
Annual seven-day minimum	135	Sep 20	61	Sep 21	26	Sep 21, 1964
Annual runoff (cfsm)	2.77		2.08		2.36	
Annual runoff (inches)	37.60		28.19		32.08	
10 percent exceeds	1,260		1,070		1,240	
50 percent exceeds	473		292		326	
90 percent exceeds	191		83		86	



CURRENT 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.