Water-Data Report 2009

01503000 SUSQUEHANNA RIVER AT CONKLIN, NY

Upper Susquehanna Basin
Upper Susquehanna Subbasin

LOCATION.--Lat 42°02′07″, long 75°48′12″ referenced to North American Datum of 1927, Broome County, NY, Hydrologic Unit 02050101, on left bank at abutment of former highway bridge, 500 ft upstream from bridge on County Highway 304 at Conklin, 0.7 mi downstream from Little Snake Creek, and 3.5 mi downstream from Pennsylvania-New York State line.

DRAINAGE AREA.--2,232 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--November 1912 to current year.

REVISED RECORDS.--WSP 1672: 1918 (M, P). WSP 2103: Drainage area. WDR NY-81-3: 1918 (M, P).

GAGE.--Water-stage recorder. Datum of gage is 841.04 ft above NGVD of 1929. Prior to Oct. 4, 1914, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Minor regulation by upstream lakes and reservoirs. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 76,800 ft^3/s, June 28, 2006, gage height, 25.02 ft; minimum discharge, 85 ft^3/s, Oct. 14, 1964, gage height 1.30 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 18,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 11	0445	*24,100	*12.33
No other peak greater than base discharge			

Minimum discharge, 276 ft^3/s, Oct. 16, gage height, 1.94 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	523	2,250	2,310	8,500	e2,100	8,650	5,410	1,540	3,960	3,980	6,800	3,440
2	516	2,370	3,450	6,220	e2,000	e6,400	4,720	1,610	3,320	3,890	6,520	2,540
3	532	2,720	3,760	e5,400	e1,850	e4,600	4,530	1,730	2,900	4,420	6,150	2,120
4	506	2,580	3,170	e4,800	e1,650	e3,700	6,080	1,760	2,570	5,590	5,940	1,870
5	456	2,410	2,920	e5,300	e1,500	e3,600	7,770	1,690	2,260	4,760	4,210	1,680
6	429	2,490	2,790	e4,500	e1,650	3,570	7,050	1,740	2,030	3,880	3,210	1,540
7	395	2,360	e2,450	4,390	e1,600	4,070	6,620	2,090	1,820	3,320	2,670	1,420
8	382	2,210	e2,250	4,990	e1,400	7,450	6,270	2,400	1,660	3,650	2,330	1,280
9	356	2,140	e2,050	5,290	e1,600	19,200	5,530	2,580	1,980	3,790	2,090	1,210
10	351	2,140	2,660	4,530	e2,100	22,600	4,930	2,400	2,090	3,380	5,220	1,140
11	396	2,090	7,990	e3,500	e3,100	21,900	4,700	2,300	2,160	2,860	7,130	1,110
12	425	1,890	15,700	e3,400	e5,000	17,400	4,450	2,120	2,910	2,760	4,420	1,060
13	365	1,770	12,200	e3,300	e10,000	14,700	4,010	1,860	3,050	3,090	3,190	1,030
14	307	1,720	8,170	e3,200	e7,700	10,900	3,540	1,730	3,580	2,700	2,570	1,020
15	296	1,910	6,690	e2,800	e5,700	8,610	3,290	1,830	2,800	2,220	2,080	1,000
16	297	2,750	8,610	e2,550	e4,800	7,640	3,030	2,270	2,360	2,040	1,770	1,010
17	346	3,100	10,700	e2,400	e4,200	6,920	2,740	6,630	2,050	1,850	1,570	972
18	322	2,950	8,460	e2,600	e3,800	6,340	2,500	7,020	2,330	1,950	1,420	967
19	339	2,470	6,990	e2,700	e3,400	6,530	2,330	5,300	2,820	1,880	1,520	939
20	389	2,200	6,000	e2,600	e3,100	8,490	2,200	4,060	6,720	1,830	2,300	871
21	395	2,050	e4,900	e2,350	e2,800	7,780	2,400	3,250	9,950	1,580	1,980	816
22	382	1,890	e4,500	e2,300	e2,700	6,320	2,570	2,720	10,800	1,400	1,780	780
23	356	1,680	e4,000	e2,150	e2,500	5,590	2,740	2,320	8,220	1,290	2,150	741
24	365	1,550	e3,600	e2,200	e2,200	4,940	2,700	3,010	5,980	1,200	1,960	724
25	455	1,730	7,070	e2,100	e2,000	4,460	2,600	2,590	4,720	1,130	2,010	916
26	1,270	1,920	9,860	e2,000	e1,900	4,250	2,270	2,530	4,610	1,210	1,720	967
27	1,520	2,140	8,280	e1,750	e2,910	4,230	2,020	3,220	6,330	1,490	1,540	907
28	2,900	2,040	11,500	e1,800	5,290	4,120	1,870	4,180	5,900	1,260	1,390	1,170
29	2,980	1,870	16,600	e1,900	---	4,060	1,730	5,770	4,710	1,250	1,770	2,150
30	2,990	1,800	15,700	e2,100	---	4,690	1,590	6,050	4,090	2,010	3,890	2,290
31	2,560	---	12,000	e1,950	---	6,090	---	4,990	---	5,380	4,850	---
Total	24,101	65,190	217,330	105,570	90,550	249,800	114,190	95,290	120,680	83,040	98,150	39,680
Mean	777	2,173	7,011	3,405	3,234	8,058	3,806	3,074	4,023	2,679	3,166	1,323
Max	2,990	3,100	16,600	8,500	10,000	22,600	7,770	7,020	10,800	5,590	7,130	3,440
Min	296	1,550	2,050	1,750	1,400	3,570	1,590	1,540	1,660	1,130	1,390	724
Cfsm	0.35	0.97	3.14	1.53	1.45	3.61	1.71	1.38	1.80	1.20	1.42	0.59
In.	0.40	1.09	3.62	1.76	1.51	4.16	1.90	1.59	2.01	1.38	1.64	0.66

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,925	3,435	4,059	4,020	3,951	7,590	8,354	4,162	2,365	1,496	1,043	1,229
Max	12,860	9,281	10,680	10,110	11,150	18,540	21,340	10,590	11,850	7,929	5,033	8,783
(WY)	(1978)	(1928)	(1997)	(1913)	(1981)	(1936)	(1940)	(1943)	(2006)	(1915)	(1915)	(1977)
Min	130	140	641	476	724	2,808	2,000	1,300	476	267	171	142
(WY)	(1965)	(1965)	(1931)	(1931)	(1980)	(1965)	(1946)	(1985)	(1999)	(1936)	(1964)	(1964)

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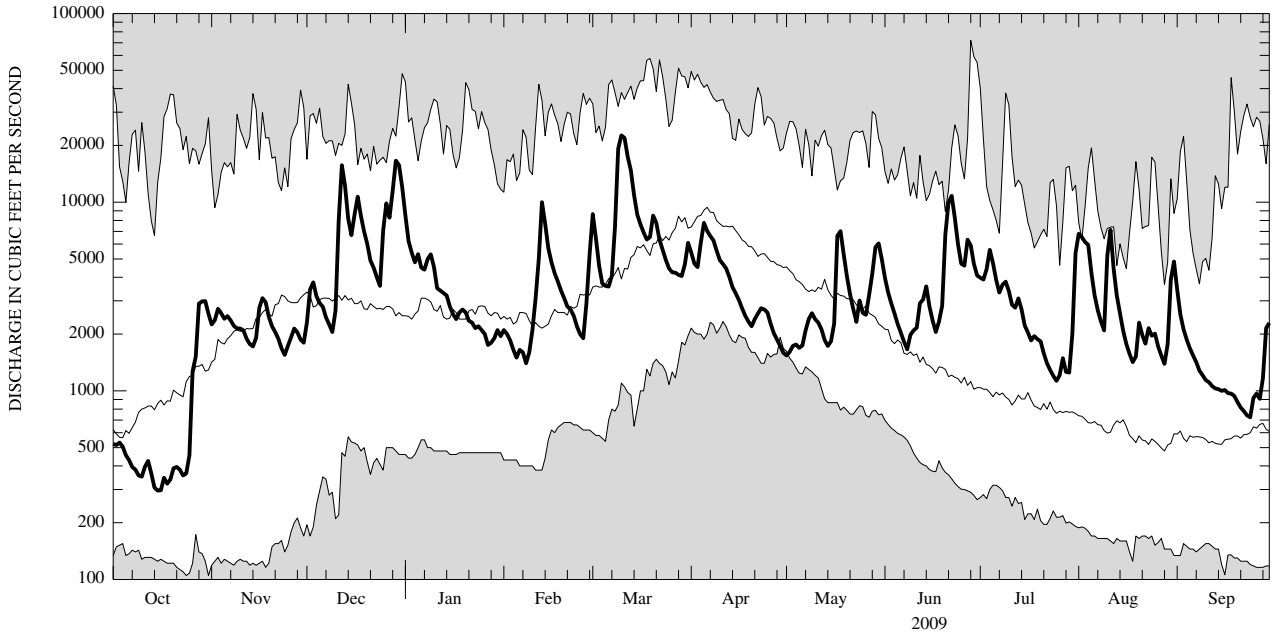
SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1913 - 2009	
Annual total	1,463,076		1,303,571			
Annual mean	3,997		3,571		3,632	
Highest annual mean					5,667	1928
Lowest annual mean					1,690	1965
Highest daily mean	30,200	Mar 9	22,600	Mar 10	72,100	Jun 28, 2006
Lowest daily mean	252	Sep 25	296	Oct 15	105	Oct 24, 1964
Annual seven-day minimum	314	Sep 21	325	Oct 13	114	Oct 19, 1964
Annual runoff (cfsm)	1.79		1.60		1.63	
Annual runoff (inches)	24.38		21.73		22.11	
10 percent exceeds	10,700		7,000		8,440	
50 percent exceeds	2,050		2,570		2,080	
90 percent exceeds	478		989		431	



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.