Water-Data Report 2013

01578310 SUSQUEHANNA RIVER AT CONOWINGO, MD

Lower Susquehanna Basin
Lower Susquehanna Subbasin

LOCATION.--Lat 39°39'28.1", long 76°10'28.2" referenced to North American Datum of 1927, Harford County, MD, Hydrologic Unit 02050306, 1.0 mi southwest of Conowingo, and 9.9 mi upstream from mouth.

DRAINAGE AREA.--27,100 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 4.16 ft above North American Vertical Datum of 1988.

REMARKS.—No estimated daily discharges. Records good. Flow regulated by Conowingo Reservoir beginning October 1928, usable capacity: 55,070,000,000 gal; dead storage, 45,290,000,000 gal. Records do not include a small infrequent diversion upstream from station to augment municipal supply of city of Baltimore. Records of diversion available from Baltimore City Department of Public Works. U.S. Geological Survey satellite data-collection platform at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 223,000 ft^3/s, Feb. 2, gage height, 21.60 ft; minimum discharge, 310 ft^3/s, Dec. 2.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	18,600	109,000	12,000	36,600	135,000	47,500	40,300	34,300	29,900	75,700	16,700	7,900
2	27,400	104,000	9,370	41,500	192,000	31,800	37,700	38,200	31,000	59,500	14,300	10,500
3	27,400	77,500	17,500	40,900	154,000	36,300	39,500	33,400	36,200	75,300	13,400	17,500
4	26,900	65,900	10,100	38,500	116,000	51,500	44,400	24,400	27,000	87,900	10,800	12,800
5	8,630	56,100	9,360	31,100	90,400	31,100	47,200	28,900	23,000	89,700	16,400	8,260
6	4,490	44,700	12,700	26,800	80,200	37,100	44,300	24,500	19,700	64,200	9,130	16,900
7	9,690	43,900	11,200	25,000	75,600	29,900	37,100	22,000	22,400	52,200	11,900	11,200
8	20,800	32,900	12,700	25,600	55,900	34,400	38,000	28,300	16,000	47,900	13,400	28,500
9	15,100	30,900	8,680	27,600	45,700	21,000	43,200	30,100	19,300	44,600	18,800	15,400
10	12,200	26,400	20,100	26,900	37,600	23,500	30,800	36,300	22,400	39,100	7,580	14,500
11	10,600	21,400	19,700	15,200	40,200	25,800	41,900	32,800	37,600	35,300	5,760	14,400
12	7,580	35,900	26,600	30,300	38,100	27,400	43,600	36,100	31,000	31,800	24,800	13,300
13	5,090	25,000	26,500	26,600	37,800	47,500	53,100	52,100	35,600	29,100	42,400	16,500
14	5,270	22,000	40,900	39,700	37,000	64,400	71,600	50,400	37,200	33,000	47,100	5,880
15	12,900	28,200	37,800	64,400	36,300	80,300	86,300	43,000	36,300	33,100	22,400	3,820
16	5,990	26,600	33,600	95,600	35,500	89,500	81,600	50,700	50,100	28,300	19,900	23,200
17	9,000	18,900	37,900	106,000	35,200	78,900	79,600	30,800	59,800	17,100	17,500	19,900
18	6,530	14,200	27,300	93,200	31,600	73,200	68,900	25,000	49,100	25,900	16,500	13,900
19	19,500	25,000	34,900	72,500	30,900	57,100	60,600	24,400	48,100	18,900	18,600	7,270
20	13,400	22,000	54,700	64,100	33,500	54,400	59,900	36,200	34,100	12,700	18,700	16,000
21	10,100	27,800	80,900	69,700	28,600	51,100	65,100	27,800	32,500	16,600	14,400	5,720
22	17,600	18,000	113,000	55,300	25,900	53,000	62,800	31,300	19,800	11,900	10,400	7,090
23	19,900	14,200	120,000	48,900	25,700	40,800	67,600	16,400	19,500	28,700	13,000	10,600
24	20,800	16,600	113,000	38,800	15,900	32,900	61,700	16,900	32,800	16,900	8,640	12,900
25	15,800	20,300	87,700	37,200	27,700	50,100	54,400	19,800	14,600	6,380	11,400	12,900
26	21,200	21,800	80,400	13,300	21,500	37,200	52,400	18,600	18,800	17,200	6,210	13,400
27	15,900	14,100	76,400	14,100	19,700	48,300	33,500	23,300	18,700	11,500	13,800	7,010
28	19,100	22,600	66,000	30,100	29,200	47,800	38,100	21,900	24,700	21,100	9,590	3,960
29	39,700	22,800	54,700	24,000	---	29,800	45,800	29,400	25,500	23,800	9,470	3,950
30	108,000	17,400	45,000	29,700	---	34,500	38,800	28,100	45,700	18,500	10,100	10,700
31	97,800	---	45,900	67,000	---	29,000	---	27,600	---	19,600	6,840	---
Total	652,970	1,026,100	1,346,610	1,356,200	1,532,700	1,397,100	1,569,800	943,000	918,400	1,093,480	479,920	365,860
Mean	21,060	34,200	43,440	43,750	54,740	45,070	52,330	30,420	30,610	35,270	15,480	12,200
Max	108,000	109,000	120,000	106,000	192,000	89,500	86,300	52,100	59,800	89,700	47,100	28,500
Min	4,490	14,100	8,680	13,300	15,900	21,000	30,800	16,400	14,600	6,380	5,760	3,820
Cfsm	0.78	1.26	1.60	1.61	2.02	1.66	1.93	1.12	1.13	1.30	0.57	0.45
In.	0.90	1.41	1.85	1.86	2.10	1.92	2.15	1.29	1.26	1.50	0.66	0.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	25,400	36,300	51,090	45,230	49,850	74,480	75,930	47,740	34,300	19,700	14,790	21,280
Max	81,800	76,440	113,700	122,500	115,800	156,000	250,100	108,200	208,000	59,050	52,830	144,700
(WY)	(1977)	(2007)	(1997)	(1996)	(1984)	(2011)	(1993)	(1989)	(1972)	(1972)	(2004)	(2011)
Min	5,557	5,465	6,733	7,164	13,050	28,320	25,230	18,810	7,691	5,338	4,803	3,476
(WY)	(1970)	(1999)	(1999)	(1981)	(1980)	(1969)	(2012)	(2001)	(1999)	(1999)	(2002)	(1995)

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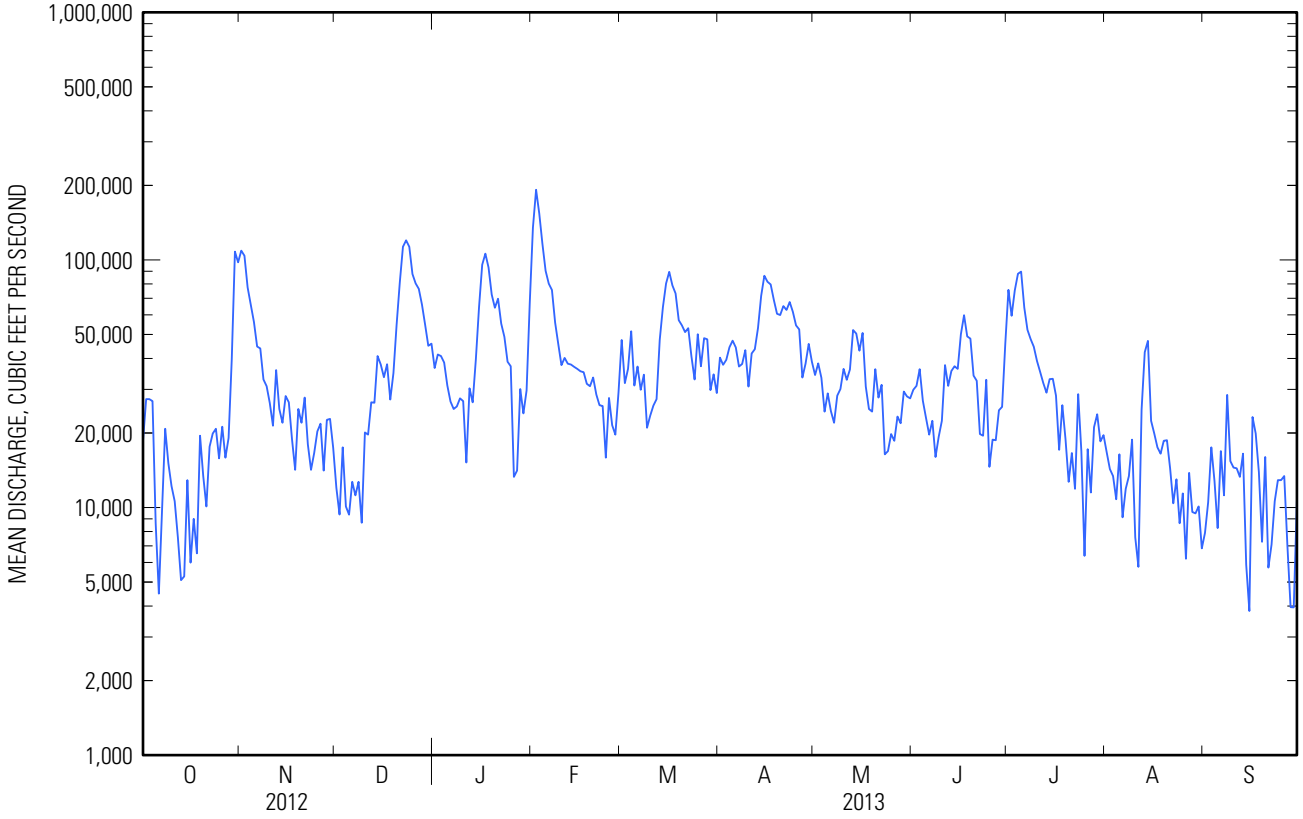
SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1968 - 2013	
Annual total	11,601,210		12,682,140			
Annual mean	31,700		34,750		41,270	
Highest annual mean					66,560	2004
Lowest annual mean					22,850	1999
Highest daily mean	120,000	Dec 23	192,000	Feb 2	1,120,000	Jun 24, 1972
Lowest daily mean	3,980	Sep 16	3,820	Sep 15	269	Jul 13, 1969
Annual seven-day minimum	5,790	Jul 8	7,480	Oct 12	1,810	Sep 24, 1980
Maximum peak flow			223,000	Feb 2	1,130,000	Jun 24, 1972
Maximum peak stage			21.60	Feb 2	36.83	Jun 24, 1972
Instantaneous low flow			310	Dec 2	144	Mar 2, 1969
Annual runoff (cfsm)	1.17		1.28		1.52	
Annual runoff (inches)	15.92		17.41		20.69	
10 percent exceeds	65,000		69,200		85,400	
50 percent exceeds	26,100		28,300		28,100	
90 percent exceeds	7,010		10,600		5,990