Water-Data Report 2011

01507000 CHENANGO RIVER AT GREENE, NY

Upper Susquehanna Basin
Chenango Subbasin

LOCATION.--Lat 42°19′28″, long 75°46′17″ referenced to North American Datum of 1983, Chenango County, NY, Hydrologic Unit 02050102, on left bank 0.3 mi downstream from bridge on State Highway 206 at Greene, and 0.6 mi downstream from Birdsall Brook.

DRAINAGE AREA.--593 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1937 to September 1970, October 1970 to August 2009 (annual maximum only), October 2009 to current year.

REVISED RECORDS.--WDR NY-69-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 892.58 ft above NGVD of 1929 (levels by Corps of Engineers).

REMARKS.--Records good except those for estimated daily discharges, which are fair. Slight diversion from upstream tributaries for operation of Erie (Barge) Canal. Telephone and satellite gage-height telemeters at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,100 ft^3/s, June 28, 2006, gage height, 21.16 ft; minimum discharge, 37 ft^3/s, Sept. 20, 1939.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 1	1545	5,710	10.13
Mar 7	1130	7,510	11.65
Mar 12	1215	11,000	13.90
Mar 19	0600	6,220	10.59
Apr 5	1830	5,880	10.29
Apr 17	1530	5,330	9.78
Apr 28	2215	12,900	15.00
May 4	1245	5,840	10.25
Sep 8	1015	*26,900	*21.09

Minimum discharge, 163 ft^3/s, Aug. 24, 25, gage height, 1.85 ft.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 01507000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01507000.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	4,650	995	1,710	656	e475	3,080	1,400	4,120	1,210	875	208	656
2	4,430	922	3,230	947	e482	2,690	1,420	2,920	1,000	720	196	518
3	2,390	851	2,460	1,130	e462	2,050	1,470	2,520	852	644	194	421
4	1,490	890	1,910	878	e475	1,760	2,190	5,290	751	702	222	368
5	2,220	1,530	1,680	830	e523	e1,850	5,070	4,230	693	555	218	619
6	2,500	1,400	1,510	713	e537	e4,850	4,670	2,890	645	487	210	1,310
7	1,920	1,180	1,390	721	e584	6,980	3,300	2,330	591	463	252	7,360
8	1,740	1,060	1,280	e660	e571	5,360	2,680	2,000	539	528	284	24,400
9	1,380	1,090	1,140	e640	e591	3,390	2,310	1,740	515	506	306	14,800
10	1,150	1,070	1,090	686	e577	3,030	2,270	1,500	492	420	371	8,560
11	998	962	1,090	676	e557	7,880	2,380	1,310	486	375	253	5,090
12	893	875	1,190	e660	e584	10,800	2,690	1,170	881	348	218	3,220
13	796	811	2,450	e640	e584	8,620	2,750	1,060	721	327	200	2,180
14	710	769	2,000	e620	e540	5,530	3,000	982	561	309	190	1,670
15	867	738	1,500	e610	e616	3,880	2,290	975	487	290	190	1,600
16	2,250	719	1,400	e600	e649	3,440	1,910	1,500	434	275	205	1,520
17	1,980	1,630	1,330	e580	e589	3,680	4,660	1,390	405	261	204	1,250
18	1,470	1,920	1,210	e591	e751	4,790	4,660	1,220	525	257	203	1,070
19	1,250	1,500	1,090	e605	2,110	5,980	3,550	1,380	446	260	200	934
20	1,100	1,340	1,020	e632	e2,000	5,070	3,150	1,720	370	264	190	890
21	1,000	1,180	1,020	e591	e1,700	4,180	2,850	1,420	332	250	206	877
22	1,020	1,080	921	e571	e1,500	3,840	2,310	1,160	559	236	188	820
23	1,040	1,350	870	e530	1,410	3,280	2,960	1,020	1,670	223	174	885
24	909	1,560	817	e496	1,360	2,720	3,510	1,020	3,110	216	168	1,740
25	859	1,290	774	e482	e1,380	2,390	2,810	988	2,340	210	165	1,560
26	1,390	1,630	728	e468	e1,300	2,000	4,680	894	1,510	209	168	1,180
27	1,810	1,750	648	e448	e1,350	1,740	5,240	1,460	1,170	220	170	1,260
28	1,670	1,390	669	e475	1,700	1,560	9,520	3,710	1,100	223	2,000	3,120
29	1,300	1,210	716	e489	---	1,450	10,800	2,980	1,810	211	2,640	4,240
30	1,180	1,130	693	e503	---	1,340	6,670	1,910	1,110	232	1,190	3,780
31	1,090	---	662	e496	---	1,380	---	1,510	---	216	817	---
Total	49,452	35,822	40,198	19,624	25,957	120,590	109,170	60,319	27,315	11,312	12,400	97,898
Mean	1,595	1,194	1,297	633	927	3,890	3,639	1,946	910	365	400	3,263
Max	4,650	1,920	3,230	1,130	2,110	10,800	10,800	5,290	3,110	875	2,640	24,400
Min	710	719	648	448	462	1,340	1,400	894	332	209	165	368
Cfsm	2.69	2.01	2.19	1.07	1.56	6.56	6.14	3.28	1.54	0.62	0.67	5.50
In.	3.10	2.25	2.52	1.23	1.63	7.56	6.85	3.78	1.71	0.71	0.78	6.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1938 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	401	758	985	953	999	2,056	2,298	1,044	565	298	196	344
Max	1,762	2,147	2,084	2,153	2,148	3,977	5,768	2,421	1,350	967	400	3,263
(WY)	(1946)	(1969)	(1960)	(1952)	(1951)	(1945)	(1940)	(1943)	(1947)	(1947)	(2011)	(2011)
Min	40.4	56.7	203	165	286	768	513	379	138	71.0	54.5	46.0
(WY)	(1965)	(1965)	(1965)	(1961)	(1940)	(1941)	(1946)	(1939)	(1939)	(1939)	(1939)	(1939)

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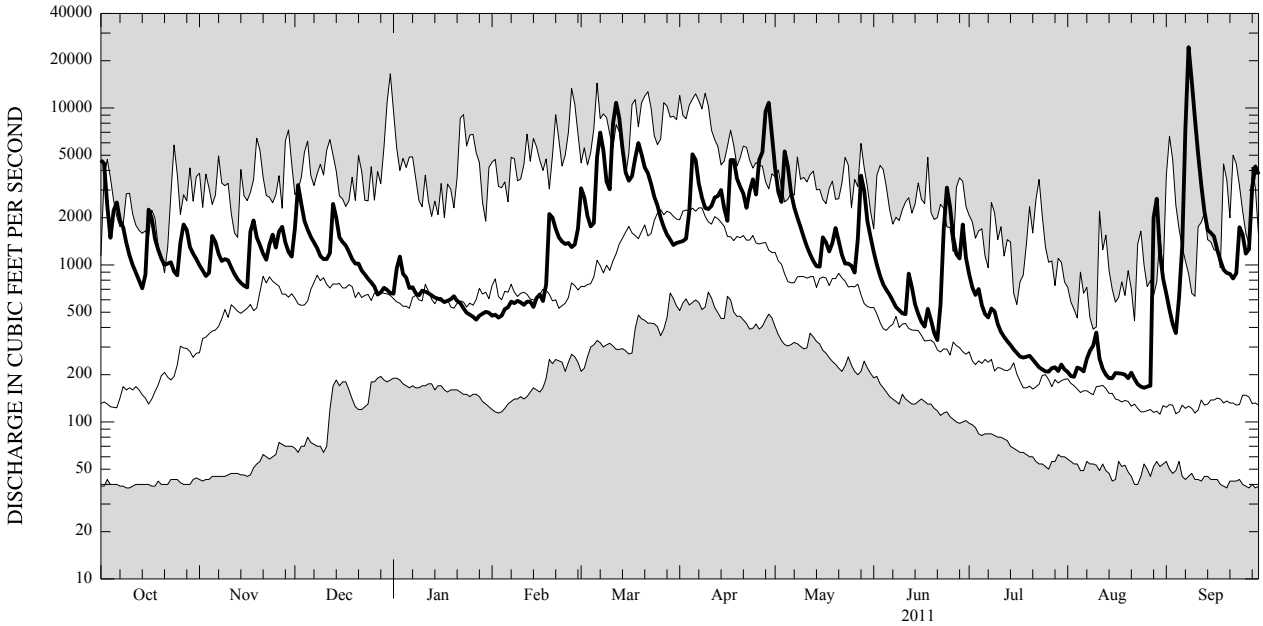
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1938 - 2011	
Annual total	325,725		610,057			
Annual mean	892		1,671		907	
Highest annual mean					1,671	2011
Lowest annual mean					457	1965
Highest daily mean	6,720	Jan 26	24,400	Sep 8	24,400	Sep 8, 2011
Lowest daily mean	109	Sep 26	165	Aug 25	38	Sep 20, 1939
Annual seven-day minimum	114	Sep 23	177	Aug 21	39	Sep 26, 1964
Annual runoff (cfsm)	1.50		2.82		1.53	
Annual runoff (inches)	20.43		38.27		20.77	
10 percent exceeds	1,880		3,600		2,120	
50 percent exceeds	669		1,090		497	
90 percent exceeds	153		259		106	



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.