Water-Data Report 2011

01505000 CHENANGO RIVER AT SHERBURNE, NY

Upper Susquehanna Basin
Chenango Subbasin

LOCATION.--Lat 42°40′43″, long 75°30′38″ referenced to North American Datum of 1983, Chenango County, NY, Hydrologic Unit 02050102, on right bank 20 ft downstream from bridge on State Highway 80, 0.5 mi west of Sherburne, and 0.5 mi downstream from Handsome Brook.

DRAINAGE AREA.--263 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1938 to March 1995, October 1995 to March 2004 (annual maximum only), April 2004 to current year.

REVISED RECORDS.--WSP 851: 1938 (M). WSP 1502: 1955. WSP 2103: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,037.16 ft above NGVD of 1929. July 22 to Dec. 9, 1953, nonrecording gage or reference point and Dec. 10, 1953 to Jan. 26, 1955, water-stage recorder at temporary site 1.5 mi downstream, at datum approximately 11.9 ft lower, during period of construction of highway bridge.

REMARKS.--Records good except those for estimated daily discharges, which are fair. Flow from 82 mi^2 of drainage area formerly may have been diverted into Mohawk River basin through abandoned Chenango Canal; no diversion from this cause known during period of record. 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, 11,400 ft^3/s, June 28, 2006, gage height, 11.35 ft; maximum gage height, 11.64 ft, Sept. 8, 2011; minimum discharge, 12 ft^3/s, Sept. 25, 1964.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 18, 1936, reached a stage of 10.6 ft, from records of National Weather Service.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Mar 11	1245	7,140	10.28
Apr 28	0915	7,910	10.35
Sep 8	0815	*10,900	*11.64

Minimum discharge, 45 ft^3/s, Aug. 24, 25, gage height, 1.55 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 01505000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/01505000.2011.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	2,530	482	960	405	e200	797	654	1,550	460	223	57	253
2	1,510	446	1,390	667	222	667	681	1,210	377	195	52	179
3	941	427	989	570	229	596	692	1,040	322	178	52	134
4	765	480	871	489	e250	614	924	1,580	289	166	59	214
5	1,050	659	777	461	e245	624	1,590	1,280	276	151	56	491
6	971	599	718	e390	286	2,160	1,470	1,060	265	141	56	852
7	936	534	668	e375	293	2,000	1,220	912	244	142	65	1,710
8	843	502	622	e345	276	1,530	1,060	807	224	141	85	8,460
9	710	542	e580	371	e245	1,390	958	715	206	140	87	4,260
10	612	504	e560	e320	e260	1,520	962	628	199	124	75	2,370
11	525	454	559	318	e230	5,770	1,060	559	254	116	62	1,600
12	467	419	679	315	e220	4,600	1,160	503	311	113	56	1,090
13	406	397	1,150	305	e210	2,760	1,220	457	233	102	51	801
14	368	379	837	e300	e215	2,030	1,190	421	210	93	47	670
15	659	364	759	e290	e215	1,650	941	444	192	86	47	627
16	1,190	356	707	e295	e260	1,550	882	628	171	83	59	574
17	842	768	647	e280	268	1,690	2,160	557	178	78	70	476
18	722	737	610	e285	407	2,280	1,760	465	183	84	60	408
19	629	663	523	310	714	2,570	1,450	521	155	93	75	347
20	566	601	e530	314	556	2,070	1,460	589	143	86	74	328
21	525	531	503	e290	e550	1,800	1,220	503	125	78	57	312
22	548	518	473	e275	e510	1,690	1,060	420	226	71	57	315
23	496	746	453	e250	e500	1,410	1,300	378	538	65	52	380
24	461	693	429	e235	e495	1,230	1,300	396	806	62	48	687
25	450	601	410	e220	474	1,080	1,140	347	571	61	50	518
26	532	726	e360	e215	473	912	1,510	367	511	69	63	417
27	699	679	369	e210	437	802	1,720	448	417	66	52	376
28	621	593	e365	e230	557	730	4,860	1,480	311	61	505	684
29	556	544	346	229	---	681	3,020	869	318	63	686	1,090
30	551	522	e290	221	---	642	2,030	722	273	69	466	1,070
31	501	---	308	e210	---	668	---	571	---	62	382	---
Total	23,182	16,466	19,442	9,990	9,797	50,513	42,654	22,427	8,988	3,262	3,663	31,693
Mean	748	549	627	322	350	1,629	1,422	723	300	105	118	1,056
Max	2,530	768	1,390	667	714	5,770	4,860	1,580	806	223	686	8,460
Min	368	356	290	210	200	596	654	347	125	61	47	134
Cfsm	2.84	2.09	2.38	1.23	1.33	6.20	5.41	2.75	1.14	0.40	0.45	4.02
In.	3.28	2.33	2.75	1.41	1.39	7.14	6.03	3.17	1.27	0.46	0.52	4.48

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	228	365	475	432	462	886	987	428	258	154	116	152
Max	1,227	923	994	912	1,497	2,059	2,596	989	1,190	732	644	1,056
(WY)	(1978)	(2007)	(1973)	(1952)	(1981)	(1977)	(1940)	(1947)	(1972)	(2006)	(2004)	(2011)
Min	20.2	33.9	97.3	82.9	102	315	222	144	64.1	28.9	31.3	21.4
(WY)	(1964)	(1965)	(1961)	(1961)	(1980)	(1941)	(1946)	(1941)	(1941)	(1962)	(1939)	(1939)

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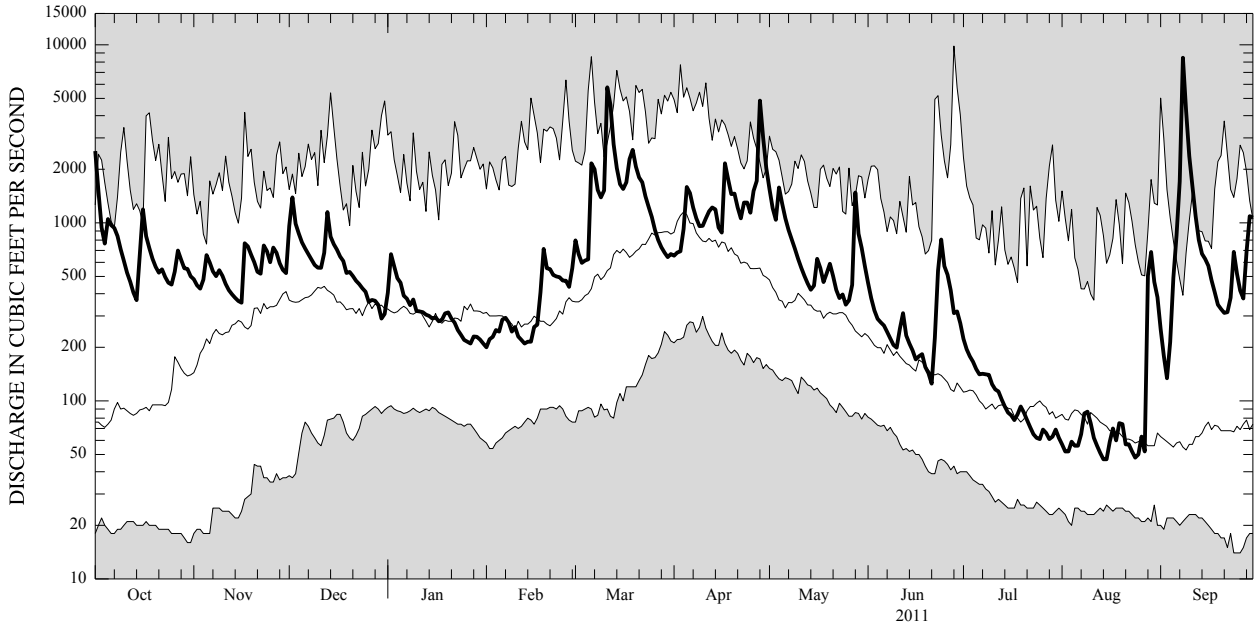
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1938 - 2011	
Annual total	149,189		242,077			
Annual mean	409		663		411	
Highest annual mean					663	2011
Lowest annual mean					200	1965
Highest daily mean	2,530	Oct 1	8,460	Sep 8	9,840	Jun 28, 2006
Lowest daily mean	55	Sep 26	47	Aug 14	14	Sep 24, 1964
Annual seven-day minimum	59	Sep 23	54	Aug 21	15	Sep 21, 1964
Annual runoff (cfsm)	1.55		2.52		1.56	
Annual runoff (inches)	21.10		34.24		21.24	
10 percent exceeds	854		1,450		949	
50 percent exceeds	296		482		235	
90 percent exceeds	79		78		53	



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.