04263000 OSWEGATCHIE RIVER NEAR HEUVELTON, NY

St. Lawrence Basin
Oswegatchie Subbasin

LOCATION.--Lat 44°35′58″, long 75°22′45″ referenced to North American Datum of 1927, St. Lawrence County, NY, Hydrologic Unit 04150302, on right bank 1.5 mi downstream from Beaver Creek, and 2.5 mi upstream from Heuvelton.

DRAINAGE AREA.--986 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1916 to current year.

REVISED RECORDS.--WDR NY-82-1: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 288.85 ft above NGVD of 1929. Prior to Sept. 16, 1916, nonrecording gage at same site and datum.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Since 1867, seasonal flow regulated by Cranberry Lake; slight diurnal fluctuation at low flow and medium flow caused by powerplants. During high stages on Grass River, part of flow of that stream may pass through Upper Lake, Indian Creek and Lower Lake and enter Oswegatchie River at Rensselaer Falls, 4.5 mi upstream from station. In October 1973, a dike was installed on Indian Creek to prevent overflow of Grass River during high flows. Satellite gage-height telemeter at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 19,600 ft^3/s, Apr. 6, 1960, gage height, 10.36 ft; minimum discharge, 99 ft^3/s, Aug. 4, 1991, gage height, 0.49 ft; minimum gage height, 0.42 ft, Sept. 11, 2002, but may have been lower during period of no gage-height record Sept. 7, 1960.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, about 5,200 ft^3/s, Jan. 28; maximum gage height, 5.07, Jan. 28, 29 (ice jam); minimum discharge, 238 ft^3/s, Aug. 20, gage height, 0.86 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	546	2,170	2,160	1,460	e3,200	e937	2,210	1,470	506	1,710	799	778
2	909	2,580	2,410	1,420	e2,600	e898	2,130	1,450	504	1,530	701	548
3	1,080	2,610	2,850	1,340	e2,300	e875	2,040	1,440	509	1,310	606	462
4	1,100	2,440	3,490	1,250	e2,000	e875	1,880	1,490	497	1,110	537	442
5	1,170	2,140	3,480	1,200	e1,800	e859	1,660	1,400	610	980	468	406
6	1,290	2,030	3,100	1,150	e1,700	e875	1,630	1,390	677	852	422	389
7	1,460	1,900	2,710	1,120	e1,500	e909	1,510	1,340	805	740	379	334
8	1,570	1,850	2,440	e1,060	e1,300	e935	1,450	1,370	1,040	606	360	358
9	1,970	1,790	2,200	e1,020	e1,200	e962	1,530	1,520	1,300	589	357	368
10	2,240	1,730	e1,990	e956	e1,020	e1,020	1,570	1,790	1,040	1,260	328	368
11	2,240	1,680	e1,860	e933	e988	e1,330	1,570	2,020	978	1,580	313	368
12	2,040	1,530	e1,730	e911	e964	e1,710	1,620	2,010	856	1,270	328	383
13	1,800	1,270	e1,640	e896	e950	e2,110	1,650	1,860	985	959	296	433
14	1,610	1,080	e1,540	e869	e943	e2,500	1,540	1,630	1,280	1,190	296	478
15	1,430	1,030	e1,490	e857	e929	e2,830	1,470	1,640	1,360	1,360	293	519
16	1,330	889	e1,430	e846	e889	4,170	1,430	1,840	1,190	996	276	764
17	1,240	900	e1,370	e846	e882	4,220	1,430	1,820	1,060	932	287	865
18	1,160	871	e1,280	e835	e856	4,140	1,600	1,780	943	1,110	268	1,200
19	1,090	722	e1,230	e841	e837	3,870	1,880	1,710	966	1,200	277	1,370
20	1,020	783	e1,190	e841	e807	3,540	1,950	1,410	934	1,230	246	1,240
21	878	807	e1,250	e829	e783	3,250	1,930	1,240	791	1,160	276	1,090
22	845	1,080	e1,200	e829	e772	3,050	1,710	1,090	760	1,100	266	940
23	839	1,080	e993	e819	e767	3,140	1,560	883	737	957	534	812
24	1,220	1,120	e813	e800	e789	3,880	1,420	825	1,000	809	2,270	812
25	1,720	1,110	e795	e1,100	e851	4,220	1,250	745	3,050	726	3,480	807
26	1,920	1,080	e870	e1,900	e892	4,120	1,150	683	3,060	668	3,670	740
27	1,870	1,050	e1,040	e3,700	e936	3,580	1,110	645	2,330	585	3,110	680
28	1,730	1,180	e1,160	e5,000	e972	2,930	1,140	551	1,920	525	2,550	784
29	1,750	1,430	e1,310	e4,900	---	2,610	1,200	537	1,780	490	1,930	939
30	1,880	1,790	e1,420	e4,500	---	2,460	1,350	498	1,810	509	1,390	1,240
31	1,940	---	1,500	e3,900	---	2,330	---	487	---	716	1,080	---
Total	44,887	43,722	53,941	48,928	34,427	75,135	47,570	40,564	35,278	30,759	28,393	20,917
Mean	1,448	1,457	1,740	1,578	1,230	2,424	1,586	1,309	1,176	992	916	697
Max	2,240	2,610	3,490	5,000	3,200	4,220	2,210	2,020	3,060	1,710	3,670	1,370
Min	546	722	795	800	767	859	1,110	487	497	490	246	334

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,190	1,838	1,996	1,890	1,651	3,079	4,172	2,117	1,136	764	633	727
Max	4,242	4,284	4,522	5,369	4,800	6,327	8,867	5,243	4,481	2,096	2,196	2,510
(WY)	(2006)	(1928)	(1928)	(1930)	(1954)	(1977)	(1993)	(1976)	(1947)	(1947)	(1981)	(2004)
Min	327	552	582	507	538	972	1,167	620	391	319	222	230
(WY)	(1964)	(1957)	(1923)	(1961)	(1934)	(1940)	(1995)	(1941)	(1941)	(1965)	(2002)	(2007)

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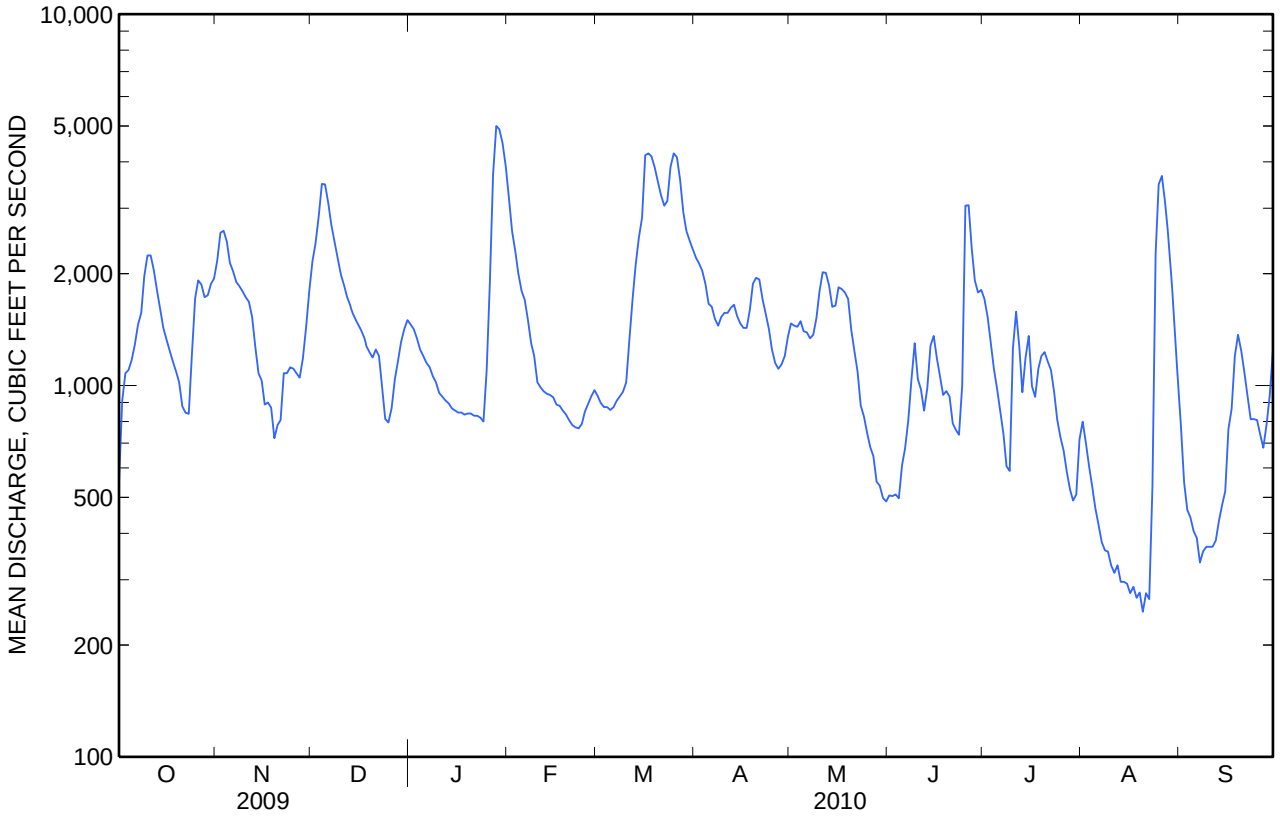
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1916 - 2010	
Annual total	654,114		504,521			
Annual mean	1,792		1,382		1,765	
Highest annual mean					2,952	1947
Lowest annual mean					1,029	1931
Highest daily mean	8,360	Jan 1	5,000	Jan 28	19,200	Apr 6, 1960
Lowest daily mean	314	Sep 19	246	Aug 20	107	Aug 4, 1991
Annual seven-day minimum	320	Sep 13	271	Aug 16	133	Jul 30, 1991
10 percent exceeds	3,400		2,480		4,000	
50 percent exceeds	1,470		1,160		1,150	
90 percent exceeds	578		508		434