Water-Data Report 2011

04270000 SALMON RIVER AT CHASM FALLS, NY

St. Lawrence Basin
English-Salmon Subbasin

LOCATION.--Lat 44°45′22″, long 74°13′09″ referenced to North American Datum of 1927, Franklin County, NY, Hydrologic Unit 04150307, on right bank 0.1 mi downstream from powerplant at Chasm Falls, and 3.0 mi downstream from Duane Stream.

DRAINAGE AREA.--132 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1925 to September 1982, October 1986 to current year.

REVISED RECORDS.--WSP 729: 1931 (m). WSP 759: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,011.52 ft above NGVD of 1929.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Seasonal regulation of flow by upstream reservoirs. Diurnal fluctuation at low and medium flow caused by powerplant. A small diversion from tributary upstream from station is used as water supply for village of Malone.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,540 ft^3/s, Apr. 1, 1998, gage height, 5.43 ft; minimum discharge, 9.8 ft^3/s, Sept. 26, 27, 1963.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 29, 1984, reached a stage of 5.63 ft, from floodmarks, discharge, 3,700 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,970 ft^3/s, Apr. 12, gage height, 4.99 ft; minimum discharge, 33 ft^3/s, Sept. 13, gage height, 0.53 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 04270000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/04270000.2011.pdf

04270000 SALMON RIVER AT CHASM FALLS, NY—Continued

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	861	418	331	271	207	282	282	855	372	263	188	330
2	904	356	451	384	212	282	257	646	329	243	175	285
3	590	314	391	385	222	241	278	602	311	232	170	253
4	403	292	348	326	219	240	310	1,160	293	228	165	252
5	366	366	312	312	203	246	495	1,490	279	213	163	430
6	444	382	282	267	199	355	562	1,440	274	213	165	622
7	680	341	253	261	210	436	559	1,030	265	221	177	556
8	637	307	269	271	211	427	517	767	256	209	177	421
9	571	389	285	258	e213	433	516	616	303	199	179	349
10	491	398	258	239	e211	433	599	516	349	195	226	299
11	419	354	281	e235	e209	526	1,290	449	300	189	208	262
12	358	313	284	e231	e202	631	2,790	407	309	205	192	238
13	289	289	360	e229	195	640	2,130	379	335	215	181	224
14	255	271	361	e229	197	577	1,770	375	370	225	192	233
15	410	263	357	e226	204	486	1,300	628	323	209	307	239
16	1,320	251	341	e222	212	551	916	1,250	287	194	264	255
17	1,170	294	334	e222	209	512	828	1,390	269	187	236	230
18	815	387	322	e219	e211	635	842	975	314	206	203	213
19	620	277	296	e219	e241	771	726	741	273	213	188	202
20	525	234	285	e221	e251	675	710	612	250	196	180	200
21	495	214	282	222	e254	587	890	575	237	183	176	208
22	495	203	270	212	249	488	833	531	231	177	232	208
23	445	229	264	214	241	379	712	452	261	176	224	246
24	405	269	261	204	226	360	686	408	263	200	191	231
25	391	228	246	213	223	341	677	378	299	187	183	223
26	365	217	232	217	214	329	700	419	292	196	192	209
27	377	205	231	219	213	318	1,270	573	275	228	187	197
28	348	203	221	214	228	306	1,750	585	249	202	276	189
29	316	205	231	209	---	310	1,900	571	234	188	807	220
30	338	199	232	200	---	293	1,250	488	259	220	674	522
31	448	---	229	191	---	287	---	424	---	210	427	---
Total	16,551	8,668	9,100	7,542	6,086	13,377	28,345	21,732	8,661	6,422	7,505	8,546
Mean	534	289	294	243	217	432	945	701	289	207	242	285
Max	1,320	418	451	385	254	771	2,790	1,490	372	263	807	622
Min	255	199	221	191	195	240	257	375	231	176	163	189

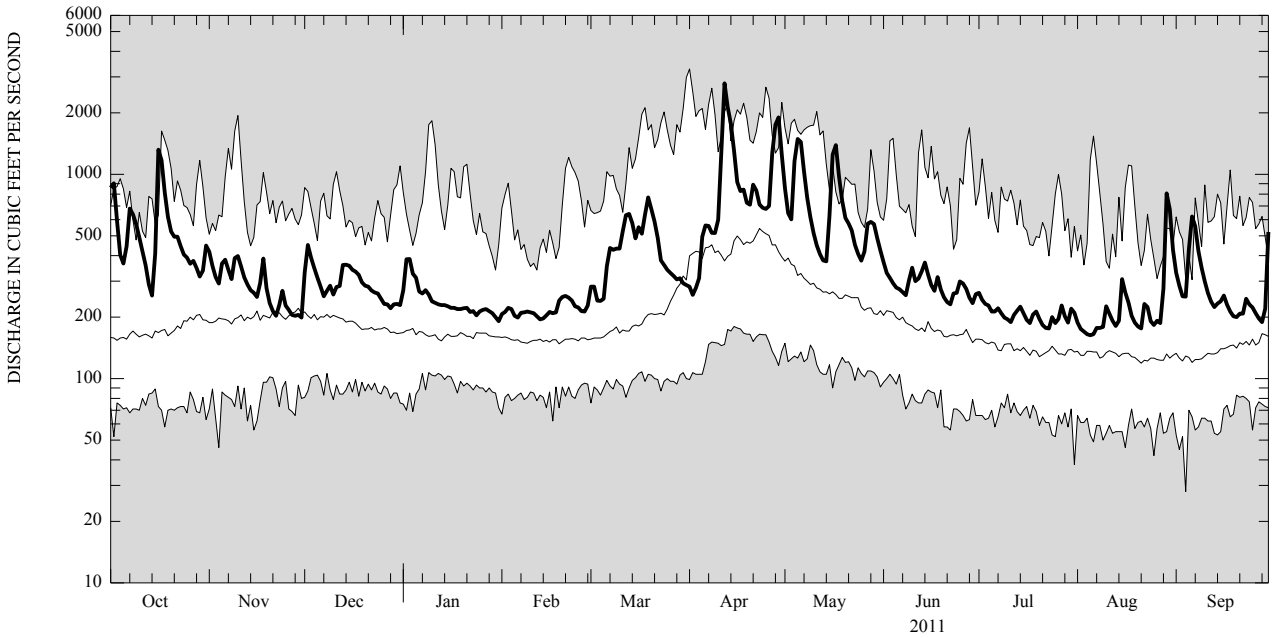
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	207	225	210	201	171	279	551	334	209	164	152	161
Max	540	446	401	502	409	637	945	948	540	393	350	322
(WY)	(1978)	(1928)	(1928)	(1998)	(1981)	(1976)	(2011)	(1971)	(1947)	(1947)	(1981)	(1981)
Min	98.4	93.5	106	101	90.7	102	206	129	89.8	79.3	65.4	87.0
(WY)	(1958)	(1935)	(1935)	(1961)	(1936)	(1940)	(1995)	(1941)	(1941)	(1941)	(1934)	(1941)

04270000 SALMON RIVER AT CHASM FALLS, NY—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1925 - 2011	
Annual total	102,217		142,535			
Annual mean	280		391		239	
Highest annual mean					391	2011
Lowest annual mean					152	1965
Highest daily mean	1,320	Oct 16	2,790	Apr 12	3,280	Apr 1, 1998
Lowest daily mean	120	Aug 21	163	Aug 5	28	Sep 4, 1934
Annual seven-day minimum	130	Aug 16	170	Aug 2	55	Aug 5, 1941
10 percent exceeds	457		682		424	
50 percent exceeds	230		279		179	
90 percent exceeds	162		199		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.