

Water-Data Report 2006

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 mi².

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.--No estimated daily discharges. Records good. 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 ft³/s, Apr. 1, 1998, gage height, 5.43 ft; minimum discharge, 9.8 ft³/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 ft³/s.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 1,880 ft³/s, Oct 17, gage height, 4.10 ft; minimum discharge, 28 ft³/s, Sep 28, gage height, 0.49 ft.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	216	409	522	226	367	189	553	223	199	225	350	129
2	182	378	388	220	311	189	681	178	255	237	505	121
3	198	320	331	208	280	186	602	208	259	224	360	120
4	166	286	310	194	420	185	577	196	350	198	279	123
5	159	271	298	209	464	189	557	193	294	188	223	136
6	153	338	266	204	535	187	485	196	253	194	195	134
7	155	428	212	176	429	181	463	228	223	182	178	135
8	433	375	200	189	385	225	495	226	210	168	161	123
9	477	349	210	191	276	270	413	219	209	163	157	126
10	343	390	234	191	288	308	340	206	232	157	150	135
11	271	366	228	201	264	418	332	202	333	156	152	126
12	238	304	222	308	262	371	345	196	319	147	152	125
13	228	286	209	328	230	498	395	208	280	170	150	127
14	339	274	182	377	220	753	384	208	256	151	140	162
15	466	260	195	394	232	772	374	214	249	150	139	161
16	631	404	207	334	261	632	373	199	223	148	129	142
17	1,630	483	207	251	319	490	344	210	207	141	134	145
18	1,470	416	208	324	387	411	314	271	190	145	130	122
19	1,310	357	203	584	355	384	291	498	204	140	137	133
20	1,070	327	203	757	301	336	279	760	264	128	196	138
21	737	295	191	711	253	258	266	931	232	178	226	150
22	552	290	201	657	244	256	245	795	196	189	184	141
23	559	285	199	585	235	227	357	634	179	195	162	136
24	583	252	201	507	230	200	525	491	179	179	147	153
25	542	244	205	433	202	212	477	402	174	170	142	168
26	577	223	242	346	208	245	438	345	165	183	138	166
27	560	214	250	187	189	256	376	314	223	167	132	160
28	480	285	224	248	188	265	305	288	344	152	162	133
29	431	435	223	263	---	290	279	268	362	145	144	233
30	404	559	238	305	---	327	264	254	258	155	137	231
31	418	---	195	378	---	389	---	229	---	141	121	---
Total	15,978	10,103	7,404	10,486	8,335	10,099	12,129	9,990	7,321	5,266	5,712	4,334
Mean	515	337	239	338	298	326	404	322	244	170	184	144
Max	1,630	559	522	757	535	772	681	931	362	237	505	233
Min	153	214	182	176	188	181	245	178	165	128	121	120

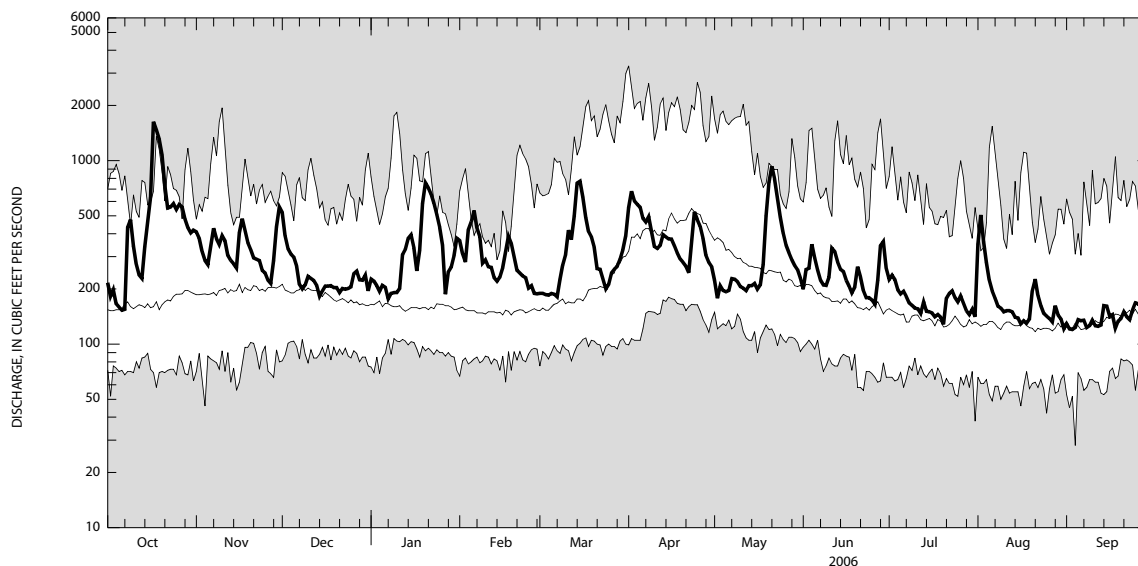
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1925 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	200	222	205	197	170	276	545	331	207	159	149	160
Max	540	446	401	502	409	637	890	948	540	393	350	322
(WY)	(1978)	(1928)	(1928)	(1998)	(1981)	(1976)	(1960)	(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)

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SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1925 - 2006	
Annual total	100,717		107,157			
Annual mean	276		294		235	
Highest annual mean					364 1947	
Lowest annual mean					152 1965	
Highest daily mean	1,630	Oct 17	1,630	Oct 17	3,280	Apr 1, 1998
Lowest daily mean	105	Aug 29	120	Sep 3	28	Sep 4, 1934
Annual seven-day minimum	117	Aug 24	126	Aug 31	55	Aug 5, 1941
10 percent exceeds	492		498		416	
50 percent exceeds	207		233		176	
90 percent exceeds	140		145		105	



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.