Water-Data Report 2011

15008000 SALMON R NR HYDER AK

Southern Southeast Alaska Basin
Southeast Mainland Subbasin

LOCATION.--Lat 56°01′34″, long 130°03′55″ referenced to North American Datum of 1927, in NW ¼ SE ¼ SW ¼ sec.26, T.67 S., R.99 E., Prince of Wales-Outer Ketchikan Division, AK, Hydrologic Unit 19010101, 80 feet up on the right bank of the Salmon River, 9.2 miles North of Hyder and the mouth of the Salmon River, and 0.25 miles upstream and East of Texas Creek.

DRAINAGE AREA.--94.1 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--Continuous streamflow record 1963 - 1973, October 2009 - current year.

GAGE.--Water-stage recorder. Elevation 295 ft. above sea level.

REMARKS.--Records fair, except for discharges above 10,000 ft^3/s and estimated discharges, which are poor. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18,800 ft^3/s, July 23, gage height, 26.97 ft; minimum discharge, 54 ft^3/s, Mar. 13, gage height, 19.92 ft.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 20,000 ft^3/s, July 30, gage height, 27.11 ft; minimum discharge, &69 ft^3/s, Dec. 16, gage height, 20.04 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	e450	363	e90	e37	86	88	115	399	1,660	1,170	2,650	1,290
2	e400	310	e80	e36	e75	118	102	410	1,760	1,160	2,710	3,280
3	e340	284	e75	e35	e72	116	108	338	1,680	1,150	2,840	4,850
4	e320	262	e69	e34	e69	122	105	317	1,360	1,450	3,040	3,700
5	e330	316	e67	e33	e65	110	95	375	1,220	1,480	3,350	2,470
6	e550	339	e65	e34	68	98	96	390	1,230	1,630	3,240	2,140
7	e500	270	e63	e36	77	90	104	396	1,240	2,040	2,870	1,920
8	e430	241	e61	e39	85	80	92	406	1,290	2,340	2,380	1,840
9	e380	216	e59	e41	84	74	83	414	1,390	2,550	2,080	1,790
10	e330	201	e57	e44	73	71	78	428	1,630	2,560	1,960	1,840
11	e290	186	e55	e120	67	68	75	462	1,750	2,650	2,220	1,780
12	e250	180	e54	e190	64	67	78	458	2,170	2,290	2,320	1,830
13	e220	170	e53	e230	65	63	82	479	1,670	1,950	2,390	1,820
14	e200	178	e52	e190	76	78	85	521	1,340	1,920	2,800	1,400
15	e180	165	e51	e160	81	101	126	557	1,180	1,930	3,110	965
16	e230	145	e50	e130	78	95	187	602	1,030	1,960	2,980	889
17	e340	139	e49	e115	78	99	216	680	1,100	2,030	2,840	874
18	e300	133	e52	106	72	110	267	906	1,300	2,400	3,130	882
19	e310	127	e51	97	68	89	374	1,220	1,480	3,440	2,480	921
20	314	123	e50	112	73	80	566	1,190	1,680	5,030	2,540	700
21	341	122	e49	126	76	76	456	1,030	1,600	8,240	2,940	557
22	459	116	e47	122	73	87	322	917	1,540	14,100	3,680	505
23	659	115	e46	107	72	119	260	1,000	1,650	7,850	4,510	459
24	493	114	e45	92	69	144	233	1,040	1,770	3,190	3,140	567
25	567	121	e44	79	74	168	252	1,200	1,880	2,370	2,100	926
26	464	124	e43	71	71	171	290	1,390	1,760	2,170	1,640	1,650
27	365	119	e42	67	69	174	404	1,730	1,700	2,410	1,430	3,070
28	289	115	e41	69	68	189	467	1,770	1,650	2,590	1,330	3,850
29	286	116	e40	73	---	185	472	1,710	1,460	2,440	1,250	2,820
30	462	108	e39	79	---	158	453	1,740	1,270	2,280	1,040	1,670
31	567	---	e38	90	---	133	---	1,820	---	2,170	1,080	---
Total	11,616	5,518	1,677	2,794	2,048	3,421	6,643	26,295	45,440	92,940	78,070	53,255
Mean	375	184	54.1	90.1	73.1	110	221	848	1,515	2,998	2,518	1,775
Max	659	363	90	230	86	189	566	1,820	2,170	14,100	4,510	4,850
Min	180	108	38	33	64	63	75	317	1,030	1,150	1,040	459
Ac-ft	23,040	10,940	3,330	5,540	4,060	6,790	13,180	52,160	90,130	184,300	154,900	105,600
Cfsm	3.98	1.95	0.57	0.96	0.78	1.17	2.35	9.01	16.1	31.9	26.8	18.9
In.	4.59	2.18	0.66	1.10	0.81	1.35	2.63	10.40	17.96	36.74	30.86	21.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2010, BY WATER YEAR (WY) #

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,089	794	209	85.7	94.6	148	142	552	1,867	2,354	3,022	2,226
Max	4,350	3,109	1,131	214	392	779	301	848	4,025	3,111	6,676	5,796
(WY)	(1973)	(1969)	(1966)	(1966)	(1964)	(1966)	(1966)	(2010)	(1969)	(1969)	(1971)	(1967)
Min	375	134	26.5	29.9	23.4	29.1	51.8	248	1,132	1,477	1,922	1,076
(WY)	(2010)	(1971)	(1973)	(1969)	(1969)	(1971)	(1972)	(1972)	(1965)	(1970)	(1968)	(1970)

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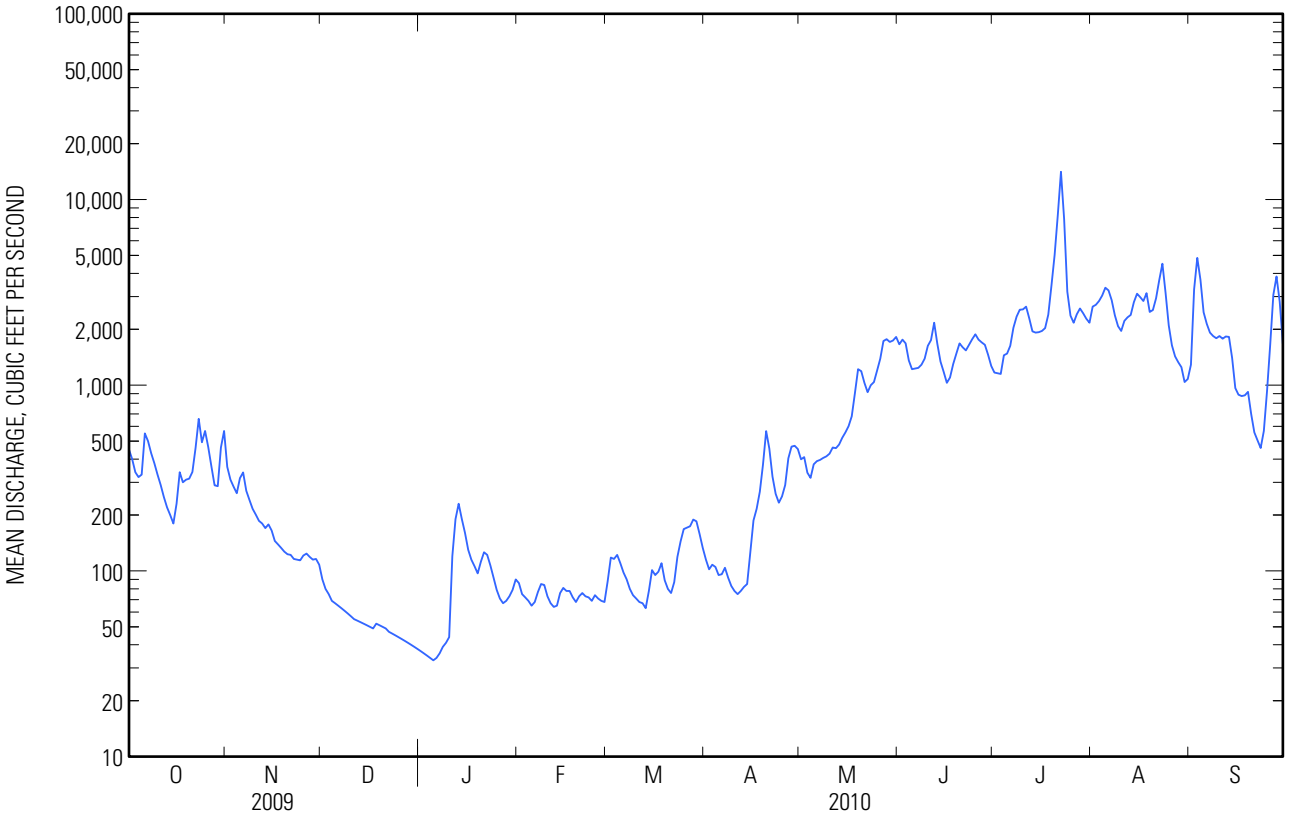
SUMMARY STATISTICS

	Water Year 2010		Water Years 1963 - 2010#	
Annual total	329,717			
Annual mean	903		1,054	
Highest annual mean			1,362	1973
Lowest annual mean			785	1965
Highest daily mean	14,100	Jul 22	65,000	Sep 17, 1967
Lowest daily mean	33	Jan 5	13	Jan 10, 1966
Annual seven-day minimum	35	Jan 1	15	Jan 6, 1966
Maximum peak flow	18,800	Jul 23	[a] 140,000	Aug 30, 1971
Maximum peak stage	26.97	Jul 23	[b] 28.90	Aug 30, 1971
Annual runoff (ac-ft)	654,000		763,900	
Annual runoff (cfsm)	9.60		11.2	
Annual runoff (inches)	130.35		152.25	
10 percent exceeds	2,420		2,500	
50 percent exceeds	317		350	
90 percent exceeds	64		40	

See Period of Record; partial year used in monthly statistics.
[a] Result of Summit Lake glacier dam breakout.
[b] Gage height at different datum.



15008000 SALMON R NR HYDER AK—Continued

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

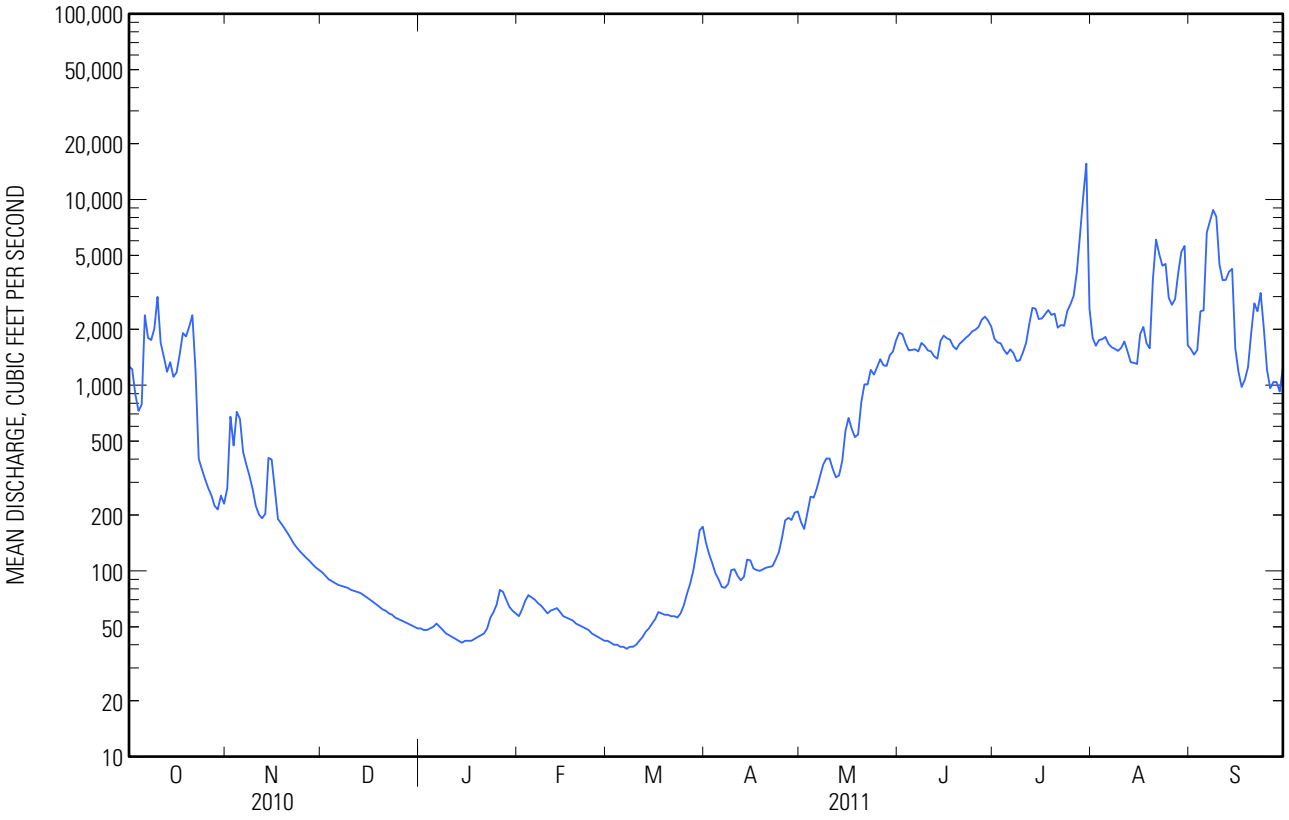
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,260	278	e98	e49	e57	e42	142	183	1,920	1,780	1,800	1,560
2	1,220	677	e94	e48	e62	e41	123	168	1,880	1,700	1,630	1,460
3	894	473	90	e48	e69	e40	110	205	1,680	1,680	1,750	1,550
4	727	719	e88	e49	e74	e40	97	251	1,540	1,550	1,770	2,500
5	786	658	e86	e50	e72	e39	90	248	1,550	1,470	1,820	2,530
6	2,380	436	e84	e52	e70	e39	82	279	1,560	1,560	1,670	6,630
7	1,800	374	e83	e50	e67	e38	81	324	1,520	1,490	1,600	7,650
8	1,750	325	e82	e48	e65	e39	85	374	1,690	1,350	1,570	8,790
9	2,020	276	e81	e46	e62	e39	101	403	1,630	1,360	1,530	8,090
10	2,990	224	e79	e45	e59	e40	102	403	1,540	1,500	1,590	4,460
11	1,690	201	e78	e44	e61	e42	94	354	1,520	1,690	1,720	3,680
12	1,420	192	e77	e43	e62	e44	89	319	1,430	2,130	1,520	3,690
13	1,180	203	e76	e42	e63	e47	93	327	1,390	2,610	1,330	4,080
14	1,330	406	e74	e41	e60	e49	115	391	1,730	2,580	1,320	4,230
15	1,110	398	e72	e42	e57	e52	114	566	1,850	2,270	1,300	1,580
16	1,170	276	e70	e42	e56	e55	103	666	1,790	2,290	1,890	1,180
17	1,470	e190	e68	e42	e55	e60	101	582	1,760	2,410	2,060	978
18	1,910	e180	e66	e43	e54	e59	100	525	1,620	2,540	1,680	1,070
19	1,830	e170	e64	e44	e52	e58	102	543	1,560	2,390	1,580	1,250
20	2,070	e160	e62	e45	e51	e58	104	805	1,670	2,430	3,710	1,900
21	2,380	e150	e61	e46	e50	e57	105	1,010	1,730	2,040	6,080	2,760
22	1,190	e140	e59	e49	e49	e57	106	1,010	1,800	2,110	5,080	2,500
23	401	e133	e58	e56	e48	e56	115	1,210	1,860	2,090	4,400	3,140
24	352	e127	e56	e60	e46	e59	126	1,140	1,950	2,510	4,500	2,020
25	312	e122	e55	e66	e45	e65	151	1,250	1,990	2,730	2,960	1,210
26	279	e117	e54	e79	e44	e75	187	1,380	2,060	3,030	2,710	963
27	255	e113	e53	e77	e43	e85	193	1,280	2,250	4,060	2,910	1,040
28	224	e108	e52	e70	e42	e100	188	1,270	2,340	6,420	4,030	1,040
29	214	e104	e51	e64	---	126	206	1,450	2,230	10,300	5,240	924
30	254	e101	e50	e61	---	165	209	1,520	2,070	15,600	5,620	1,240
31	230	---	e49	e59	---	173	---	1,750	---	2,580	1,640	---
Total	37,098	8,031	2,170	1,600	1,595	1,939	3,614	22,186	53,110	92,250	80,010	85,695
Mean	1,197	268	70.0	51.6	57.0	62.5	120	716	1,770	2,976	2,581	2,856
Max	2,990	719	98	79	74	173	209	1,750	2,340	15,600	6,080	8,790
Min	214	101	49	41	42	38	81	168	1,390	1,350	1,300	924
Ac-ft	73,580	15,930	4,300	3,170	3,160	3,850	7,170	44,010	105,300	183,000	158,700	170,000
Cfsm	12.7	2.84	0.74	0.55	0.61	0.66	1.28	7.61	18.8	31.6	27.4	30.4
In.	14.67	3.17	0.86	0.63	0.63	0.77	1.43	8.77	21.00	36.47	31.63	33.88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2011, BY WATER YEAR (WY) #

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,098	750	198	82.9	91.5	141	140	566	1,859	2,405	2,988	2,274
Max	4,350	3,109	1,131	214	392	779	301	848	4,025	3,111	6,676	5,796
(WY)	(1973)	(1969)	(1966)	(1966)	(1964)	(1966)	(1966)	(2010)	(1969)	(1969)	(1971)	(1967)
Min	375	134	26.5	29.9	23.4	29.1	51.8	248	1,132	1,477	1,922	1,076
(WY)	(2010)	(1971)	(1973)	(1969)	(1969)	(1971)	(1972)	(1972)	(1965)	(1970)	(1968)	(1970)

15008000 SALMON R NR HYDER AK—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1963 - 2011#	
Annual total	358,205		389,298			
Annual mean	981		1,067		1,055	
Highest annual mean					1,362	1973
Lowest annual mean					785	1965
Highest daily mean	14,100	Jul 22	15,600	Jul 30	65,000	Sep 17, 1967
Lowest daily mean	33	Jan 5	38	Mar 7	13	Jan 10, 1966
Annual seven-day minimum	35	Jan 1	39	Mar 3	15	Jan 6, 1966
Maximum peak flow			20,000	Jul 30	[a]140,000	Aug 30, 1971
Maximum peak stage			27.11	Jul 30	[b]28.90	Aug 30, 1971
Annual runoff (ac-ft)	710,500		772,200		764,600	
Annual runoff (cfsm)	10.4		11.3		11.2	
Annual runoff (inches)	141.61		153.90		152.39	
10 percent exceeds	2,450		2,500		2,500	
50 percent exceeds	399		279		350	
90 percent exceeds	69		49		40	

See Period of Record; partial year used in monthly statistics.
[a] Result of Summit Lake glacier dam breakout.
[b] Gage height at different datum.