

15484000 SALCHA RIVER NEAR SALCHAKET, AK

Tanana River Basin
Salcha River Subbasin

LOCATION.--Lat 64°28'22", long 146°55'26" referenced to North American Datum of 1927, in NE ¼ sec.22, T.5 S., R.4 E., Fairbanks North Star Borough, AK, Hydrologic Unit 19040505, (Big Delta B-6 quad), on right bank 0.2 mi upstream from bridge on Richardson Highway, 0.5 mi east of Sno-Shu Inn, 2 mi upstream from mouth, and 6 mi southeast of Salchaket.

DRAINAGE AREA.--2,170 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1909 to August 1910, published as "at mouth" (no winter records), October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 631.85 ft above sea level. Prior to August 10, 1910, nonrecording gage at site 1.5 mi downstream at different datum. October 1, 1948, to April 24, 1953, nonrecording gage, and April 25, 1953 to October 16, 1967, water-stage recorder at site 800 ft downstream at same datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. GOES satellite telemetry at station.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 27	0530	*21,500	*14.90
May 29	1145	17,400	13.79
Jul 6	0430	12,600	12.26

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	2,420	e600	e520	e430	e280	e250	e215	3,010	3,870	3,720	1,950	2,210
2	2,340	e550	e515	e420	e280	e245	e215	3,070	5,600	6,490	1,910	2,200
3	2,280	e520	e510	e420	e270	e245	e215	2,270	6,540	9,030	1,870	2,170
4	2,230	e510	e500	e410	e270	e245	e215	1,760	4,790	6,990	1,940	2,110
5	2,180	e500	e500	e410	e270	e240	e215	1,500	5,470	8,960	2,040	2,020
6	2,110	e500	e500	e400	e270	e240	e220	1,400	4,780	10,500	2,020	1,950
7	2,050	e500	e500	e400	e265	e240	e220	1,450	3,980	6,450	1,960	1,910
8	1,970	e490	e500	e390	e265	e235	e220	1,720	3,630	4,830	1,900	1,980
9	1,910	e490	e510	e380	e265	e235	e230	2,110	3,250	3,880	1,820	1,980
10	1,870	e480	e520	e380	e265	e235	e240	2,070	3,380	3,310	1,740	1,900
11	1,760	e480	e520	e370	e265	e230	e250	1,960	3,260	3,130	1,680	1,830
12	1,760	e470	e520	e370	e265	e230	e260	2,020	3,240	4,230	1,620	1,760
13	1,600	e460	e530	e360	e265	e230	e280	2,100	2,760	4,050	1,570	1,700
14	1,480	e460	e530	e360	e260	e230	e300	2,290	4,380	3,360	1,540	1,650
15	1,490	e450	e530	e350	e260	e225	e320	2,160	5,510	2,910	1,500	1,610
16	1,600	e440	e530	e350	e260	e225	e400	1,940	4,150	2,640	1,450	1,550
17	1,620	e440	e530	e340	e260	e225	e520	1,740	3,240	2,550	1,410	1,500
18	1,570	e430	e530	e340	e260	e225	e800	1,730	2,830	2,550	1,400	1,470
19	e1,470	e430	e530	e330	e260	e225	e1,200	1,990	3,250	2,460	1,380	1,430
20	e1,340	e420	e530	e330	e255	e220	e1,700	2,190	2,740	2,810	1,350	1,410
21	e1,120	e420	e530	e320	e255	e220	e2,300	2,320	2,360	4,480	1,360	1,400
22	e950	e430	e530	e320	e255	e220	e3,000	2,450	2,110	4,100	1,440	1,400
23	e875	e430	e530	e310	e255	e220	e3,800	3,000	1,920	3,540	1,470	1,380
24	e935	e440	e520	e310	e255	e220	e3,600	3,880	1,790	3,150	1,410	1,360
25	e965	e450	e510	e300	e255	e220	e3,200	5,070	1,780	2,830	1,380	1,350
26	e1,000	e500	e490	e300	e250	e220	e3,000	13,200	1,730	2,620	1,380	1,330
27	e990	e530	e480	e300	e250	e215	3,030	14,700	1,630	2,430	1,520	1,310
28	e970	e540	e460	e290	e250	e215	2,870	10,800	1,660	2,280	1,860	1,300
29	e920	e540	e450	e290	e250	e215	2,830	15,200	2,160	2,230	2,570	1,290
30	e860	e530	e440	e290	---	e215	2,900	8,270	4,200	2,140	2,520	1,270
31	e730	---	e440	e280	---	e215	---	5,170	---	2,030	2,310	---
Total	47,365	14,430	15,735	10,850	7,585	7,070	38,765	124,540	101,990	126,680	53,270	49,730
Mean	1,528	481	508	350	262	228	1,292	4,017	3,400	4,086	1,718	1,658
Max	2,420	600	530	430	280	250	3,800	15,200	6,540	10,500	2,570	2,210
Min	730	420	440	280	250	215	215	1,400	1,630	2,030	1,350	1,270
Ac-ft	93,950	28,620	31,210	21,520	15,040	14,020	76,890	247,000	202,300	251,300	105,700	98,640
Cfs/m	0.70	0.22	0.23	0.16	0.12	0.11	0.60	1.85	1.57	1.88	0.79	0.76
In.	0.81	0.25	0.27	0.19	0.13	0.12	0.66	2.13	1.75	2.17	0.91	0.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2012, BY WATER YEAR (WY)#

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,108	515	368	266	215	193	441	4,152	3,668	2,703	3,023	2,461
Max	1,969	1,028	730	471	449	377	1,373	8,666	8,640	7,330	13,350	6,186
(WY)	(1994)	(1994)	(1994)	(1992)	(1994)	(1992)	(1993)	(1962)	(1964)	(1949)	(1967)	(1952)
Min	484	230	160	130	62.0	60.0	104	1,564	963	568	717	636
(WY)	(1959)	(1954)	(1954)	(1954)	(1953)	(1953)	(1974)	(1964)	(1969)	(1958)	(1966)	(1966)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1949 - 2012 [#]	
Annual total	725,501		598,010			
Annual mean	1,988		1,634		1,601	
Highest annual mean					2,957	1967
Lowest annual mean					796	1999
Highest daily mean	16,300	Jul 5	15,200	May 29	94,100	Aug 14, 1967
Lowest daily mean	160	Mar 10	215	Mar 27	^a 60	Mar 1, 1953
Annual seven-day minimum	160	Mar 10	215	Mar 27	60	Mar 1, 1953
Maximum peak flow			21,500	May 27	97,000	Aug 14, 1967
Maximum peak stage			14.90	May 27	21.78	Aug 14, 1967
Annual runoff (ac-ft)	1,439,000		1,186,000		1,160,000	
Annual runoff (cfsm)	0.916		0.753		0.738	
Annual runoff (inches)	12.44		10.25		10.02	
10 percent exceeds	5,070		3,430		3,890	
50 percent exceeds	920		1,280		660	
90 percent exceeds	170		240		170	

[#] See Period of Record; partial year used in monthly statistics

^a Monthly mean published for Mar. 1953

