Water-Data Report 2013

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 mi^2, 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 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
May 29	1130	19,300	14.32
Jun 6	1815	*24,200	*15.61

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 15484000, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/15484000.2013.pdf

15484000 SALCHA RIVER NEAR SALCHAKET, AK—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

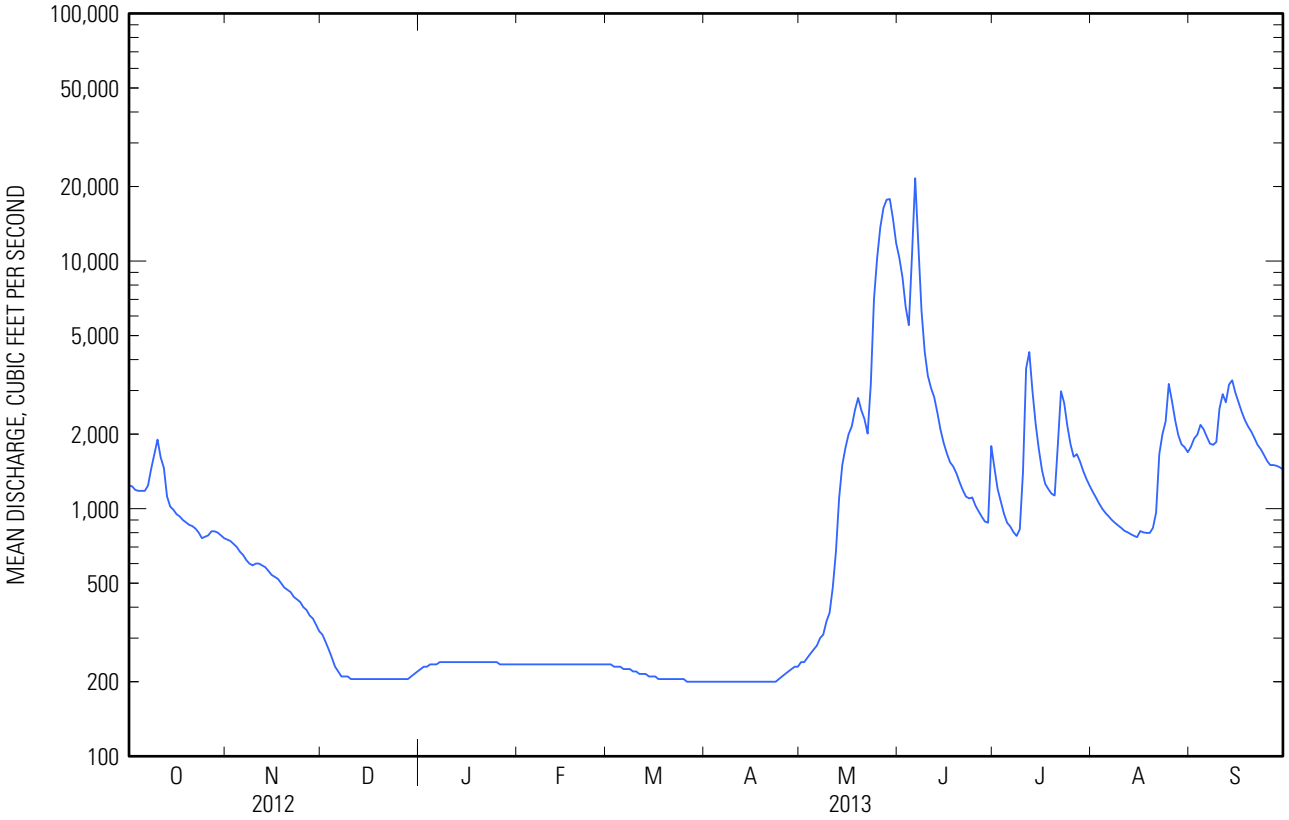
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,240	e750	e310	e225	e235	e235	e200	e240	10,300	1,460	1,170	1,780
2	1,230	e740	e290	e230	e235	e235	e200	e240	8,580	1,200	1,110	1,920
3	1,190	e720	e270	e230	e235	e230	e200	e250	6,520	1,070	1,050	1,990
4	1,180	e700	e250	e235	e235	e230	e200	e260	5,510	955	1,000	2,180
5	1,180	e670	e230	e235	e235	e230	e200	e270	10,600	877	962	2,090
6	1,180	e650	e220	e235	e235	e225	e200	e280	21,600	847	932	1,950
7	1,240	e620	e210	e240	e235	e225	e200	e300	11,600	804	901	1,830
8	1,450	e600	e210	e240	e235	e225	e200	e310	6,290	776	877	1,810
9	1,660	e590	e210	e240	e235	e220	e200	e350	4,310	826	856	1,860
10	1,900	e600	e205	e240	e235	e220	e200	e380	3,440	1,400	836	2,540
11	1,610	e600	e205	e240	e235	e215	e200	e480	3,070	3,690	814	2,900
12	1,460	e590	e205	e240	e235	e215	e200	e670	2,820	4,290	803	2,690
13	e1,120	e580	e205	e240	e235	e215	e200	e1,100	2,440	2,980	789	3,170
14	e1,020	e560	e205	e240	e235	e210	e200	e1,500	2,080	2,200	777	3,300
15	e990	e540	e205	e240	e235	e210	e200	e1,760	1,840	1,740	767	2,940
16	e950	e530	e205	e240	e235	e210	e200	e2,000	1,670	1,430	812	2,690
17	e930	e520	e205	e240	e235	e205	e200	e2,150	1,540	1,260	802	2,460
18	e900	e500	e205	e240	e235	e205	e200	e2,500	1,480	1,200	798	2,280
19	e880	e480	e205	e240	e235	e205	e200	e2,800	1,390	1,150	798	2,150
20	e860	e470	e205	e240	e235	e205	e200	e2,500	1,280	1,130	836	2,050
21	e850	e460	e205	e240	e235	e205	e200	e2,300	1,190	1,810	965	1,930
22	e830	e440	e205	e240	e235	e205	e200	2,010	1,120	2,980	1,660	1,810
23	e800	e430	e205	e240	e235	e205	e200	3,180	1,100	2,670	2,000	1,740
24	e760	e420	e205	e240	e235	e205	e205	7,010	1,110	2,160	2,250	1,650
25	e770	e400	e205	e240	e235	e205	e210	10,300	1,030	1,820	3,190	1,560
26	e780	e390	e205	e235	e235	e200	e215	13,700	976	1,620	2,720	1,500
27	e810	e370	e205	e235	e235	e200	e220	16,400	928	1,660	2,280	1,500
28	e810	e360	e205	e235	e235	e200	e225	17,700	887	1,550	1,980	1,490
29	e800	e340	e210	e235	---	e200	e230	17,800	878	1,420	1,820	1,470
30	e780	e320	e215	e235	---	e200	e230	14,800	1,790	1,320	1,770	1,440
31	e760	---	e220	e235	---	e200	---	11,800	---	1,240	1,690	---
Total	32,920	15,940	6,740	7,360	6,580	6,595	6,135	137,340	119,369	51,535	40,015	62,670
Mean	1,062	531	217	237	235	213	204	4,430	3,979	1,662	1,291	2,089
Max	1,900	750	310	240	235	235	230	17,800	21,600	4,290	3,190	3,300
Min	760	320	205	225	235	200	200	240	878	776	767	1,440
Ac-ft	65,300	31,620	13,370	14,600	13,050	13,080	12,170	272,400	236,800	102,200	79,370	124,300
Cfsm	0.49	0.24	0.10	0.11	0.11	0.10	0.09	2.04	1.83	0.77	0.59	0.96
In.	0.56	0.27	0.12	0.13	0.11	0.11	0.11	2.35	2.05	0.88	0.69	1.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2013, BY WATER YEAR (WY)#

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,107	515	365	265	215	193	437	4,157	3,673	2,687	2,997	2,455
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)

15484000 SALCHA RIVER NEAR SALCHAKET, AK—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1949 - 2013#	
Annual total	576,080		493,199			
Annual mean	1,574		1,351		1,597	
Highest annual mean					2,957	1967
Lowest annual mean					796	1999
Highest daily mean	15,200	May 29	21,600	Jun 6	94,100	Aug 14, 1967
Lowest daily mean	205	Dec 10	200	Mar 26	[a]60	Mar 1, 1953
Annual seven-day minimum	205	Dec 10	200	Mar 26	60	Mar 1, 1953
Maximum peak flow			24,200	Jun 6	97,000	Aug 14, 1967
Maximum peak stage			15.61	Jun 6	21.78	Aug 14, 1967
Annual runoff (ac-ft)	1,143,000		978,300		1,157,000	
Annual runoff (cfsm)	0.725		0.623		0.736	
Annual runoff (inches)	9.88		8.45		10.00	
10 percent exceeds	3,430		2,520		3,870	
50 percent exceeds	890		600		660	
90 percent exceeds	220		205		170	

See Period of Record
[a] Monthly mean published for Mar. 1953