

Water-Data Report 2011

15304000 KUSKOKWIM RIVER AT CROOKED CREEK, AK

Lower Kuskokwim River Basin
Aniak Subbasin

LOCATION.--Lat 61°52'10", long 158°06'41" referenced to North American Datum of 1927, in NE ¼ SW ¼ NE ¼ sec.32, T.21 N., R.48 W., Bethel Division, AK, Hydrologic Unit 19030501, (Sleetmute D-6 quad), on right bank at village of Crooked Creek, 0.1 mi upstream from Crooked Creek.

DRAINAGE AREA.--31,100 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June 1951 to September 1994, October 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 200 ft above sea level, from topographic map. Prior to August 6, 1977, non-recording gage at site 1,600 ft upstream at same datum. From August 6, 1977, to September 30, 1991, water-stage recorder at site 2,300 ft upstream at same datum. From October 1, 1991 to September 30, 1994, and October 1, 1995 to August 7, 1997 non-recording gage.

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

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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	e38,000	e24,000	e21,000	e17,000	e13,000	e11,000	e10,000	e14,000	e55,000	57,600	63,700	70,700
2	e38,000	e24,000	e21,000	e16,000	e13,000	e11,000	e10,000	e20,000	e55,000	56,300	63,600	70,700
3	e38,000	e24,000	e21,000	e16,000	e13,000	e11,000	e10,000	e30,000	e60,000	55,200	66,200	71,400
4	e36,000	e24,000	e20,000	e16,000	e13,000	e11,000	e9,500	e46,000	e65,000	54,800	70,200	70,400
5	e36,000	e24,000	e20,000	e16,000	e12,000	e11,000	e9,500	e65,000	e65,000	54,400	76,500	68,900
6	e36,000	e24,000	e20,000	e16,000	e12,000	e11,000	e9,500	e85,000	e65,000	54,800	81,100	67,600
7	e34,000	e24,000	e20,000	e16,000	e12,000	e11,000	e9,500	e110,000	e65,000	55,800	84,700	66,000
8	e34,000	e24,000	e20,000	e16,000	e12,000	e11,000	e9,500	e150,000	e60,000	55,000	86,800	64,000
9	e34,000	e24,000	e20,000	e16,000	e12,000	e11,000	e9,500	e220,000	e55,000	53,300	88,500	62,300
10	e34,000	e22,000	e19,000	e16,000	e12,000	e11,000	e9,500	e200,000	52,800	52,400	89,700	61,000
11	e34,000	e22,000	e19,000	e16,000	e12,000	e11,000	e9,500	e180,000	51,400	51,700	89,900	60,200
12	e32,000	e22,000	e19,000	e15,000	e12,000	e11,000	e9,500	e140,000	49,900	51,400	89,300	59,500
13	e32,000	e22,000	e19,000	e15,000	e12,000	e11,000	e9,500	e120,000	48,400	53,200	92,200	58,100
14	e32,000	e22,000	e18,000	e15,000	e12,000	e10,000	e9,500	e98,500	47,200	58,500	94,700	56,800
15	e30,000	e22,000	e18,000	e15,000	e12,000	e10,000	e9,500	e67,700	e47,000	61,700	97,800	55,500
16	e30,000	e22,000	e18,000	e15,000	e12,000	e10,000	e9,500	e65,000	e47,000	59,200	98,300	54,400
17	e30,000	e20,000	e18,000	e15,000	e12,000	e10,000	e9,500	e65,000	e50,000	56,800	94,800	53,500
18	e30,000	e20,000	e18,000	e14,000	e12,000	e10,000	e9,500	e65,000	e54,000	57,600	91,300	53,000
19	e30,000	e20,000	e18,000	e14,000	e12,000	e10,000	e9,500	e65,000	e58,000	59,200	89,500	52,100
20	e28,000	e21,000	e18,000	e14,000	e12,000	e10,000	e10,000	e60,000	e58,000	63,100	87,600	51,700
21	e28,000	e22,000	e18,000	e14,000	e11,000	e10,000	e10,000	e60,000	e60,000	63,400	85,400	51,100
22	e28,000	e24,000	e18,000	e14,000	e11,000	e10,000	e10,000	e60,000	e62,000	60,500	84,000	50,000
23	e28,000	e26,000	e17,000	e14,000	e11,000	e10,000	e10,000	e60,000	e66,000	58,800	84,400	49,200
24	e28,000	e32,000	e17,000	e14,000	e11,000	e10,000	e10,000	e55,000	69,900	57,800	83,600	48,700
25	e26,000	e39,000	e17,000	e13,000	e11,000	e10,000	e10,000	e55,000	71,000	57,600	82,000	47,700
26	e26,000	e34,000	e17,000	e13,000	e11,000	e10,000	e11,000	e55,000	70,100	59,200	79,500	46,700
27	e26,000	e27,000	e17,000	e13,000	e11,000	e10,000	e11,000	e55,000	67,600	61,300	77,700	45,900
28	e26,000	e25,000	e17,000	e13,000	e11,000	e10,000	e11,000	e55,000	63,900	61,500	77,800	45,000
29	e26,000	e23,000	e17,000	e13,000	---	e10,000	e12,000	e55,000	60,400	62,300	76,600	43,900
30	e26,000	e22,000	e17,000	e13,000	---	e10,000	e12,000	e50,000	58,400	63,800	74,100	42,800
31	e26,000	---	e17,000	e13,000	---	e10,000	---	e50,000	---	64,400	71,600	---
Total	960,000	725,000	574,000	456,000	332,000	323,000	299,000	2,476,200	1,758,000	1,792,600	2,573,100	1,698,800
Mean	30,970	24,170	18,520	14,710	11,860	10,420	9,967	79,880	58,600	57,830	83,000	56,630
Max	38,000	39,000	21,000	17,000	13,000	11,000	12,000	220,000	71,000	64,400	98,300	71,400
Min	26,000	20,000	17,000	13,000	11,000	10,000	9,500	14,000	47,000	51,400	63,600	42,800
Ac-ft	1,904,000	1,438,000	1,139,000	904,500	658,500	640,700	593,100	4,912,000	3,487,000	3,556,000	5,104,000	3,370,000
Cfs/m	1.00	0.78	0.60	0.47	0.38	0.34	0.32	2.57	1.88	1.86	2.67	1.82
In.	1.15	0.87	0.69	0.55	0.40	0.39	0.36	2.96	2.10	2.14	3.08	2.03

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	45,090	22,140	15,780	13,230	11,710	10,740	15,300	81,780	79,960	66,850	74,600	66,780
Max	102,000	43,110	31,100	23,030	20,710	19,550	47,570	161,700	235,100	119,500	169,800	150,900
(WY)	(1994)	(2003)	(2003)	(2003)	(1991)	(1991)	(2004)	(1957)	(1964)	(1980)	(1963)	(1951)
Min	22,650	12,730	10,000	8,400	6,900	6,100	8,600	22,130	33,880	40,910	41,840	29,770
(WY)	(1979)	(1981)	(1957)	(1966)	(1966)	(1966)	(1953)	(1964)	(1954)	(1997)	(1957)	(2004)

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SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1951 - 2011#	
Annual total	13,100,600		13,967,700			
Annual mean	35,890		38,270		42,030	
Highest annual mean					62,120	
Lowest annual mean					28,600	
Highest daily mean	130,000	May 10	220,000	May 9	391,000	Jun 5, 1964
Lowest daily mean	9,500	Mar 13	9,500	Apr 4	6,100	Mar 1, 1966
Annual seven-day minimum	9,500	Mar 13	9,500	Apr 4	6,100	Mar 1, 1966
Maximum peak flow			^e 220,000	May 9	392,000	Jun 5, 1964
Maximum peak stage			^a 32.01	May 9	^a 32.01	May 9, 2011
Annual runoff (ac-ft)	25,990,000		27,700,000		30,450,000	
Annual runoff (cfsm)	1.15		1.23		1.35	
Annual runoff (inches)	15.67		16.71		18.36	
10 percent exceeds	73,700		71,500		90,600	
50 percent exceeds	26,000		26,000		27,000	
90 percent exceeds	10,000		10,000		10,000	

See Period of Record; partial year was used in monthly statistics and break in record

^a From floodmarks, backwater from ice^e Estimated