

**15281000 KNIK RIVER NEAR PALMER, AK**

Knik Arm Basin  
Matanuska Subbasin

LOCATION.--Lat 61°30'18", long 149°01'50" referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.2, T.16 N., R.2 E., Matanuska-Susitna Borough, AK, Hydrologic Unit 19020402, (Anchorage C-6 quad), near the right bank on downstream side of bridge on Old Glenn Highway, 7 mi south of Palmer, 7 mi upstream from Alaska Railroad bridge, 9 mi downstream from Friday Creek, and about 17 mi downstream from Knik Glacier.

DRAINAGE AREA.--1,180 mi<sup>2</sup>, approximately.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1959 to January 1988, annual maximum, water year 1989, October 1991 to September 1992, April 2001 to current year (no winter record).

REVISED RECORDS.--WRD-AK-77-1: 1974-75 (Instantaneous maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 33.68 ft above North American Vertical Datum of 1988. Prior to June 27, 1960, nonrecording gage, and June 27, 1960 to April 25, 1974, water-stage recorder at old bridge 100 ft upstream at original 1929 datum. April 26, 1974 to April 18, 1976, recording gage at site 0.4 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flood peaks due to outbreak of glacier-dammed Lake George, 1948-62, 1964, 1965, published in WSP 1936. Streamflow augmented by glaciers, which cover 54 percent of the basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 355,000 ft<sup>3</sup>/s, July 26, 1961, gage-height 24.30 ft., site then in use, caused by release of stored water (Lake George) behind Knik Glacier. Maximum gage-height, 24.35 ft., July 17, 1960, caused by release of stored water (Lake George) behind Knik Glacier; minimum daily, 260 ft<sup>3</sup>/s, March 1-31, 1962.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1948, 359,000 ft<sup>3</sup>/s, July 18, 1958, gage height, 25.30 ft, at site in use beginning 1959, from outbreak of glacier-dammed Lake George.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 29,900 ft<sup>3</sup>/s, July 30, 11.64 ft; minimum discharge not determined, occurs during winter.

## 15281000 KNIK RIVER NEAR PALMER, AK—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6,340	---	---	---	---	---	e1,600	2,960	8,680	18,300	26,300	14,400
2	5,760	---	---	---	---	---	e1,600	3,240	8,710	17,400	25,500	13,600
3	5,660	---	---	---	---	---	e1,600	3,440	8,700	16,700	23,700	12,500
4	e7,000	---	---	---	---	---	e1,600	3,450	9,440	17,500	23,500	12,000
5	e6,500	---	---	---	---	---	e1,700	3,510	12,100	18,300	24,500	10,900
6	5,790	---	---	---	---	---	e1,700	3,540	14,200	17,800	25,500	10,300
7	5,230	---	---	---	---	---	e1,700	3,600	15,000	17,900	24,400	10,400
8	5,290	---	---	---	---	---	e1,700	3,700	14,200	17,000	24,100	12,500
9	6,460	---	---	---	---	---	e1,700	3,790	12,700	18,100	24,200	19,300
10	16,400	---	---	---	---	---	e1,700	3,840	12,000	18,200	22,700	24,300
11	23,900	---	---	---	---	---	e1,700	e4,000	12,900	18,500	21,900	24,100
12	21,100	---	---	---	---	---	e1,700	e4,100	14,000	18,200	22,600	23,500
13	15,500	---	---	---	---	---	e1,800	e4,200	13,500	17,500	22,200	22,600
14	11,800	---	---	---	---	---	e1,800	e4,300	13,400	17,300	24,900	19,200
15	9,610	---	---	---	---	---	e1,800	e4,500	13,900	17,100	27,500	14,900
16	8,190	---	---	---	---	---	e1,900	4,730	14,900	17,900	27,100	12,800
17	7,500	---	---	---	---	---	e1,900	4,990	16,700	19,800	25,800	10,800
18	6,960	---	---	---	---	---	e1,900	4,930	16,600	22,200	24,500	9,360
19	6,460	---	---	---	---	---	e2,000	4,890	16,200	21,300	24,200	9,240
20	5,900	---	---	---	---	---	e2,000	5,020	18,000	20,200	23,600	9,260
21	5,420	---	---	---	---	---	e2,000	5,340	20,900	21,100	22,300	8,720
22	4,730	---	---	---	---	---	e2,200	e5,600	24,000	22,900	21,700	7,860
23	4,160	---	---	---	---	---	e2,200	e6,000	23,400	21,900	20,200	7,390
24	3,670	---	---	---	---	---	2,370	6,470	21,200	22,100	18,500	6,870
25	3,310	---	---	---	---	---	2,590	7,540	19,300	21,900	18,300	6,700
26	3,040	---	---	---	---	---	2,720	8,510	18,700	22,700	17,600	6,430
27	2,820	---	---	---	---	---	2,730	8,680	18,500	24,900	17,800	5,940
28	e2,600	---	---	---	---	---	2,780	8,520	19,400	27,500	17,300	5,430
29	2,460	---	---	---	---	---	2,760	8,240	19,900	28,100	15,600	5,230
30	2,310	---	---	---	---	---	2,840	8,130	19,600	29,000	15,000	5,010
31	2,200	---	---	---	---	---	---	8,540	---	27,300	14,600	---
<b>Total</b>	224,070	---	---	---	---	---	60,290	162,300	470,730	636,600	687,600	361,540
<b>Mean</b>	7,228	---	---	---	---	---	2,010	5,235	15,690	20,540	22,180	12,050
<b>Max</b>	23,900	---	---	---	---	---	2,840	8,680	24,000	29,000	27,500	24,300
<b>Min</b>	2,200	---	---	---	---	---	1,600	2,960	8,680	16,700	14,600	5,010
<b>Med</b>	5,790	---	---	---	---	---	1,850	4,730	15,000	18,500	23,500	10,600
<b>Ac-ft</b>	444,400	---	---	---	---	---	119,600	321,900	933,700	1,263,000	1,364,000	717,100
<b>Cfsm</b>	6.13	---	---	---	---	---	1.70	4.44	13.3	17.4	18.8	10.2
<b>In.</b>	7.06	---	---	---	---	---	1.90	5.12	14.84	20.07	21.68	11.40

15281000 KNIK RIVER NEAR PALMER, AK—Continued

