

# SOUTHWEST ALASKA

## 15304000 KUSKOKWIM RIVER AT CROOKED CREEK

LOCATION.--Lat 61°52'16", long 158°06'03", in NE<sup>1</sup>/<sub>4</sub> NE<sup>1</sup>/<sub>4</sub> sec. 32, T. 21 N., R. 48 W. (Sleetmute D-6 quad), Hydrologic Unit 19030501, on right bank at village of Crooked Creek, 0.1 mi upstream from Crooked Creek.

DRAINAGE AREA.--31,100 mi<sup>2</sup>, approximately.

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

### DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005 DAILY MEAN VALUES

| DAY   | OCT     | NOV     | DEC     | JAN    | FEB    | MAR    | APR    | MAY     | JUN     | JUL     | AUG     | SEP     |
|-------|---------|---------|---------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 1     | 31700   | e38000  | e20000  | e16000 | e14000 | e13000 | e11000 | e90000  | 84700   | 64300   | 47700   | 58600   |
| 2     | 39800   | e34000  | e19000  | e16000 | e14000 | e13000 | e11000 | e110000 | 80800   | 65400   | 46700   | 55700   |
| 3     | 43800   | e30000  | e19000  | e16000 | e14000 | e13000 | e11000 | e120000 | 77200   | 65900   | 46000   | 53900   |
| 4     | 42700   | e27000  | e19000  | e16000 | e14000 | e12000 | e11000 | e150000 | 74300   | 67200   | 46300   | 53000   |
| 5     | 41500   | e26000  | e19000  | e16000 | e14000 | e12000 | e11000 | e180000 | 71300   | 69100   | 46000   | 53600   |
| 6     | 41400   | e25500  | e19000  | e16000 | e14000 | e12000 | e11000 | 204000  | 68900   | 70400   | 45300   | 56200   |
| 7     | 41100   | e25000  | e19000  | e16000 | e14000 | e12000 | e11000 | 197000  | 66500   | 69800   | 44400   | 58600   |
| 8     | 40000   | e24500  | e19000  | e16000 | e14000 | e12000 | e11000 | 193000  | 64300   | 68100   | 43200   | 59900   |
| 9     | 38600   | e24000  | e19000  | e16000 | e14000 | e12000 | e11000 | 194000  | 62900   | 67000   | 42500   | 62200   |
| 10    | 37400   | e23500  | e19000  | e16000 | e14000 | e12000 | e11000 | 194000  | 62200   | 65600   | 41800   | 64300   |
| 11    | 36800   | e23000  | e19000  | e16000 | e14000 | e12000 | e11000 | 194000  | 62300   | 63600   | 41200   | 73200   |
| 12    | 36700   | e23000  | e19000  | e15000 | e13000 | e12000 | e11000 | 194000  | 63000   | 62200   | 41100   | 81600   |
| 13    | 35900   | e23000  | e19000  | e15000 | e13000 | e12000 | e11000 | 193000  | 64400   | 60900   | 41200   | 82400   |
| 14    | 34900   | e23000  | e19000  | e15000 | e13000 | e12000 | e11000 | 190000  | 65600   | 59600   | 41200   | 83500   |
| 15    | 34600   | e23000  | e18000  | e15000 | e13000 | e12000 | e11000 | 183000  | 65200   | 58400   | 41700   | 85900   |
| 16    | 35200   | e22000  | e18000  | e15000 | e13000 | e12000 | e11000 | 176000  | 65200   | 57300   | 42200   | 85100   |
| 17    | 35700   | e22000  | e18000  | e15000 | e13000 | e12000 | e11000 | 167000  | 67100   | 56100   | 42300   | 84000   |
| 18    | 36000   | e22000  | e18000  | e15000 | e13000 | e12000 | e11000 | 161000  | 68400   | 56000   | 42600   | 83100   |
| 19    | 35800   | e22000  | e18000  | e15000 | e13000 | e12000 | e11000 | 153000  | 72100   | 55900   | 42500   | 81400   |
| 20    | 36000   | e21000  | e18000  | e15000 | e13000 | e12000 | e11500 | 144000  | 79600   | 55900   | 42300   | 78600   |
| 21    | 37900   | e21000  | e18000  | e15000 | e13000 | e12000 | e12000 | 137000  | 84600   | 55800   | 42400   | 75600   |
| 22    | 39600   | e21000  | e18000  | e15000 | e13000 | e12000 | e13000 | 130000  | 83300   | 55400   | 42000   | 73300   |
| 23    | 40700   | e21000  | e17000  | e15000 | e13000 | e12000 | e14000 | 124000  | 82000   | 54200   | 44500   | 72800   |
| 24    | 43400   | e21000  | e17000  | e15000 | e13000 | e12000 | e15000 | 119000  | 80700   | 53500   | 47200   | 74300   |
| 25    | 47700   | e20000  | e17000  | e15000 | e13000 | e12000 | e17000 | 114000  | 77100   | 52200   | 50900   | 77200   |
| 26    | 51200   | e20000  | e17000  | e14000 | e13000 | e12000 | e19000 | 111000  | 72000   | 51200   | 56300   | 82800   |
| 27    | 52200   | e20000  | e17000  | e14000 | e13000 | e12000 | e24000 | 109000  | 68700   | 50200   | 57900   | 86000   |
| 28    | 53200   | e20000  | e17000  | e14000 | e13000 | e12000 | e30000 | 105000  | 66600   | 49800   | 56100   | 85900   |
| 29    | e51000  | e20000  | e17000  | e14000 | ---    | e12000 | e40000 | 99300   | 65200   | 49600   | 55600   | 83600   |
| 30    | e46000  | e20000  | e17000  | e14000 | ---    | e12000 | e60000 | 93200   | 63900   | 48300   | 56200   | 80800   |
| 31    | e41000  | ---     | e17000  | e14000 | ---    | e11000 | ---    | 88500   | ---     | 47800   | 59000   | ---     |
| TOTAL | 1259500 | 705500  | 564000  | 470000 | 375000 | 374000 | 464500 | 4617000 | 2130100 | 1826700 | 1436300 | 2187100 |
| MEAN  | 40630   | 23520   | 18190   | 15160  | 13390  | 12060  | 15480  | 148900  | 71000   | 58930   | 46330   | 72900   |
| MAX   | 53200   | 38000   | 20000   | 16000  | 14000  | 13000  | 60000  | 204000  | 84700   | 70400   | 59000   | 86000   |
| MIN   | 31700   | 20000   | 17000   | 14000  | 13000  | 11000  | 11000  | 88500   | 62200   | 47800   | 41100   | 53000   |
| AC-FT | 2498000 | 1399000 | 1119000 | 932200 | 743800 | 741800 | 921300 | 9158000 | 4225000 | 3623000 | 2849000 | 4338000 |
| CFSM  | 1.31    | 0.76    | 0.59    | 0.49   | 0.43   | 0.39   | 0.50   | 4.79    | 2.28    | 1.89    | 1.49    | 2.34    |
| IN.   | 1.51    | 0.84    | 0.67    | 0.56   | 0.45   | 0.45   | 0.56   | 5.52    | 2.55    | 2.18    | 1.72    | 2.62    |

### STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)#

|      |        |       |       |       |       |       |       |        |        |        |        |        |
|------|--------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|--------|
| MEAN | 44820  | 21950 | 15590 | 13190 | 11770 | 10810 | 15300 | 81640  | 82170  | 67690  | 74990  | 68230  |
| MAX  | 102000 | 43110 | 31100 | 23030 | 20710 | 19550 | 47570 | 161700 | 235100 | 119500 | 169800 | 150900 |
| (WY) | 1994   | 2003  | 2003  | 2003  | 1991  | 1991  | 2004  | 1957   | 1964   | 1980   | 1963   | 1951   |
| MIN  | 22650  | 12730 | 10000 | 8400  | 6900  | 6100  | 8600  | 22130  | 33880  | 40910  | 41840  | 29770  |
| (WY) | 1979   | 1981  | 1957  | 1966  | 1966  | 1966  | 1953  | 1964   | 1954   | 1997   | 1957   | 2004   |

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

# SOUTHWEST ALASKA

## 15304000 KUSKOKWIM RIVER AT CROOKED CREEK—Continued

| SUMMARY STATISTICS       | FOR 2004 CALENDAR YEAR |        | FOR 2005 WATER YEAR |        | WATER YEARS 1951 - 2005# |            |
|--------------------------|------------------------|--------|---------------------|--------|--------------------------|------------|
| ANNUAL TOTAL             | 14065600               |        | 16409700            |        |                          |            |
| ANNUAL MEAN              | 38430                  |        | 44960               |        | 42360                    |            |
| HIGHEST ANNUAL MEAN      |                        |        |                     |        | 62120                    | 1963       |
| LOWEST ANNUAL MEAN       |                        |        |                     |        | 28600                    | 1997       |
| HIGHEST DAILY MEAN       | 126000                 | May 2  | 204000              | May 6  | 391000                   | Jun 5 1964 |
| LOWEST DAILY MEAN        | a11000                 | Feb 26 | b11000              | Mar 31 | c6100                    | Mar 1 1966 |
| ANNUAL SEVEN-DAY MINIMUM | 11000                  | Feb 26 | 11000               | Mar 31 | 6100                     | Mar 1 1966 |
| MAXIMUM PEAK FLOW        |                        |        | 207000              | May 6  | 392000                   | Jun 5 1964 |
| MAXIMUM PEAK STAGE       |                        |        | 17.67               | May 6  |                          |            |
| MAXIMUM PEAK STAGE       |                        |        | d18.47              | May 1  | f25.74                   | Jun 5 1964 |
| INSTANTANEOUS LOW FLOW   |                        |        |                     |        | 6100                     | Mar 1 1966 |
| ANNUAL RUNOFF (AC-FT)    | 27900000               |        | 32550000            |        | 30690000                 |            |
| ANNUAL RUNOFF (CFSM)     | 1.24                   |        | 1.45                |        | 1.36                     |            |
| ANNUAL RUNOFF (INCHES)   | 16.82                  |        | 19.63               |        | 18.51                    |            |
| 10 PERCENT EXCEEDS       | 74300                  |        | 84600               |        | 92700                    |            |
| 50 PERCENT EXCEEDS       | 30600                  |        | 35700               |        | 26500                    |            |
| 90 PERCENT EXCEEDS       | 11000                  |        | 12000               |        | 10000                    |            |

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

a Feb. 26 - Apr. 3

b Mar. 31 - Apr. 19

c Mar. 1-31, 1966

d Backwater from ice

f From floodmarks, backwater from ice, at different site, same datum