

SOUTHEAST ALASKA

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE

LOCATION.--Lat 57°39'46", long 135°11'06", in NW¹/₄ SE¹/₄ sec. 34, T. 48 S., R. 63 E. (Sitka C-4 quad), Greater Sitka Borough, Hydrologic Unit 19010203, on Chichagof Island, in Tongass National Forest, on right bank 0.6 mi upstream from Hook Creek, 3.5 mi upstream from mouth at Kadashan Bay, and 9 mi south of Tenakee.

DRAINAGE AREA.--10.2 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1968 to September 1978, October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 100 ft above sea level, from topographic map. Prior to October 24, 1969, at site 90 ft downstream at different datum; October 24, 1969 to September 30, 1978, at site 75 ft downstream at datum 1.89 ft higher.

REMARKS.--Records fair, except for estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft³/s and maximum (*):

| Date | Time | Discharge (ft ³ /s) | Gage Height (ft) | Date | Time | Discharge (ft ³ /s) | Gage Height (ft) |
|---------|------|-----------------------------------|------------------------|----------|------|-----------------------------------|------------------------|
| Oct. 12 | 2000 | 588 | 3.79 | Dec. 16 | 1345 | 1120 | 4.73 |
| Oct. 29 | 0230 | 892 | 4.37 | Dec. 23 | 1215 | 874 | 4.34 |
| Nov. 03 | 1330 | *1730 | *5.52 | Mar. 10 | 1015 | 583 | 3.78 |
| Nov. 20 | 2145 | 715 | 4.05 | Sept. 18 | 1715 | 839 | 4.28 |
| Dec. 02 | 1330 | 939 | 4.45 | Sept. 28 | 2345 | 857 | 4.31 |

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 | 50 | 293 | 113 | e17 | 85 | 107 | 43 | 43 | 20 | 13 | 20 | 66 |
| 2 | 41 | 180 | 414 | e15 | 46 | 109 | 37 | 43 | 18 | 15 | 15 | 35 |
| 3 | 32 | 707 | 253 | e18 | 33 | 72 | 35 | 45 | 16 | 64 | 27 | 25 |
| 4 | 51 | 162 | 85 | 20 | 27 | 144 | 44 | 49 | 23 | 71 | 46 | 20 |
| 5 | 181 | 89 | 58 | 22 | 22 | 86 | 67 | 51 | 20 | 44 | 58 | 41 |
| 6 | 114 | 61 | 47 | 20 | e20 | 61 | 78 | 45 | 15 | 43 | 44 | 162 |
| 7 | 106 | 49 | 36 | 17 | e19 | 68 | 51 | 46 | 14 | 34 | 27 | 181 |
| 8 | 130 | 41 | 32 | e13 | 99 | 189 | 41 | 51 | 12 | 25 | 20 | 100 |
| 9 | 75 | 35 | 34 | e12 | 72 | 154 | 55 | 50 | 12 | 21 | 17 | 45 |
| 10 | 67 | 30 | 39 | 13 | 97 | 332 | 58 | 62 | 12 | 18 | 15 | 32 |
| 11 | 47 | 27 | 124 | e12 | 58 | 165 | 49 | 60 | 11 | 15 | 14 | 27 |
| 12 | 167 | 25 | 131 | e10 | 34 | 105 | 49 | 59 | 11 | 13 | 12 | 24 |
| 13 | 122 | 90 | 62 | e8.0 | 27 | 75 | 45 | 67 | 11 | 13 | 10 | 31 |
| 14 | 55 | 251 | 92 | e9.0 | 25 | 66 | 39 | 109 | 25 | 19 | 9.6 | 23 |
| 15 | 44 | 185 | 98 | e10 | 22 | 56 | 34 | 60 | 19 | 48 | 9.4 | 20 |
| 16 | 37 | 110 | 515 | e10 | 36 | 48 | 34 | 44 | 14 | 26 | 9.3 | 18 |
| 17 | 29 | 64 | 265 | e10 | 46 | 38 | 35 | 39 | 12 | 75 | 8.7 | 53 |
| 18 | 25 | 52 | 232 | e9.0 | 34 | 32 | 38 | 32 | 11 | 74 | 34 | 386 |
| 19 | 22 | 116 | 199 | e10 | 27 | 27 | 192 | 29 | 12 | 35 | 25 | 302 |
| 20 | 20 | 363 | 116 | e10 | 25 | 24 | 122 | 31 | 12 | 24 | 23 | 119 |
| 21 | 21 | 178 | 62 | e14 | 22 | 22 | 120 | 33 | 17 | 23 | 17 | 81 |
| 22 | 26 | 85 | 119 | e25 | 28 | 24 | 78 | 28 | 17 | 26 | 77 | 63 |
| 23 | 24 | 78 | 504 | e15 | 48 | 22 | 68 | 61 | 18 | 18 | 33 | 82 |
| 24 | 47 | 108 | 323 | 27 | 36 | 20 | 94 | 46 | 20 | 15 | 20 | 191 |
| 25 | 43 | 114 | 100 | 25 | 30 | 19 | 90 | 32 | 14 | 14 | 85 | 125 |
| 26 | 26 | 94 | 60 | 33 | 49 | 25 | 94 | 31 | 11 | 34 | 58 | 83 |
| 27 | 158 | 73 | 53 | 35 | 60 | 41 | 88 | 29 | 10 | 74 | 39 | 93 |
| 28 | 221 | 89 | 68 | 23 | 89 | 33 | 78 | 24 | 11 | 38 | 26 | 362 |
| 29 | 378 | 82 | 41 | 34 | --- | 32 | 63 | 22 | 24 | 28 | 24 | 377 |
| 30 | 157 | 76 | e28 | 131 | --- | 34 | 47 | 22 | 18 | 22 | 78 | 158 |
| 31 | 114 | --- | e23 | 130 | --- | 110 | --- | 20 | --- | 21 | 116 | --- |
| TOTAL | 2630 | 3907 | 4326 | 757.0 | 1216 | 2340 | 1966 | 1363 | 460 | 1003 | 1017.0 | 3325 |
| MEAN | 84.8 | 130 | 140 | 24.4 | 43.4 | 75.5 | 65.5 | 44.0 | 15.3 | 32.4 | 32.8 | 111 |
| MAX | 378 | 707 | 515 | 131 | 99 | 332 | 192 | 109 | 25 | 75 | 116 | 386 |
| MIN | 20 | 25 | 23 | 8.0 | 19 | 19 | 34 | 20 | 10 | 13 | 8.7 | 18 |
| AC-FT | 5220 | 7750 | 8580 | 1500 | 2410 | 4640 | 3900 | 2700 | 912 | 1990 | 2020 | 6600 |
| CFSM | 8.32 | 12.8 | 13.7 | 2.39 | 4.26 | 7.40 | 6.42 | 4.31 | 1.50 | 3.17 | 3.22 | 10.9 |
| IN. | 9.59 | 14.25 | 15.78 | 2.76 | 4.43 | 8.53 | 7.17 | 4.97 | 1.68 | 3.66 | 3.71 | 12.13 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2005, BY WATER YEAR (WY)#

| | | | | | | | | | | | | |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 115 | 78.3 | 66.1 | 49.7 | 49.2 | 45.2 | 66.6 | 97.7 | 62.8 | 29.6 | 32.3 | 76.9 |
| MAX | 234 | 152 | 147 | 147 | 118 | 129 | 118 | 182 | 151 | 60.2 | 79.0 | 141 |
| (WY) | 1975 | 1975 | 2000 | 1985 | 1985 | 1994 | 1994 | 1972 | 1972 | 1970 | 1983 | 1981 |
| MIN | 50.6 | 17.7 | 8.05 | 6.15 | 5.95 | 9.21 | 22.7 | 38.3 | 15.3 | 6.41 | 5.73 | 17.5 |
| (WY) | 1970 | 1974 | 1978 | 1969 | 1969 | 1974 | 2002 | 2003 | 2005 | 1989 | 2004 | 1986 |

See Period of Record; partial year was used in monthly statistics.
e Estimated

SOUTHEAST ALASKA

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE—Continued

| SUMMARY STATISTICS | FOR 2004 CALENDAR YEAR | | FOR 2005 WATER YEAR | | WATER YEARS 1968 - 2005# | |
|--------------------------|------------------------|--------|---------------------|--------|--------------------------|-------------|
| ANNUAL TOTAL | 26099.8 | | 24310.0 | | | |
| ANNUAL MEAN | 71.3 | | 66.6 | | 64.0 | |
| HIGHEST ANNUAL MEAN | | | | | 80.8 | |
| LOWEST ANNUAL MEAN | | | | | 44.1 | |
| HIGHEST DAILY MEAN | | | | | 1010 | |
| LOWEST DAILY MEAN | 707 | Nov 3 | 707 | Nov 3 | b3.2 | Oct 19 1998 |
| ANNUAL SEVEN-DAY MINIMUM | a4.0 | Aug 24 | 8.0 | Jan 13 | b3.2 | Jul 28 1989 |
| MAXIMUM PEAK FLOW | 4.3 | Aug 12 | 9.4 | Jan 12 | 4.2 | Jan 13 1974 |
| MAXIMUM PEAK STAGE | | | 1730 | Nov 3 | c1970 | Oct 8 1990 |
| INSTANTANEOUS LOW FLOW | | | 5.52 | Nov 3 | 5.83 | Oct 8 1990 |
| ANNUAL RUNOFF (AC-FT) | 51770 | | 48220 | | 46380 | |
| ANNUAL RUNOFF (CFSM) | 6.99 | | 6.53 | | 6.28 | |
| ANNUAL RUNOFF (INCHES) | 95.19 | | 88.66 | | 85.27 | |
| 10 PERCENT EXCEEDS | 163 | | 136 | | 138 | |
| 50 PERCENT EXCEEDS | 45 | | 39 | | 42 | |
| 90 PERCENT EXCEEDS | 6.6 | | 14 | | 12 | |

See Period of Record; partial year was used in monthly statistics.

a Aug. 24 to Aug. 25

b Jul. 28 to Jul. 29, 1989

c From rating curve extended above 330 ft³/s on basis of area-velocity study at gage height 4.8 ft and shape of previous rating.