

SOUTHWEST ALASKA

15304400 TAKIKCHAK RIVER NEAR NEWTOK

LOCATION.--Lat 60°48'24", long 164°35'46", in SE¹/₄ SW¹/₄ SW¹/₄ sec. 5, T.08 N., R.86 W. (Baird Inlet D-7 quad), Hydrologic Unit 19030502, on right bank, 1.0 mi upstream from mouth, and 10 south of Newtok.

DRAINAGE AREA.--19.6 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 2004 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 12.5 ft above sea level, from topographic map.

REMARKS.--Records good, except for estimated daily discharges which are poor. Rain gage at station, 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 | e21 | e24 | e18 | e16 | e14 | e12 | e10 | e10 | 88 | 48 | 37 | 35 |
| 2 | e21 | e23 | e18 | e16 | e14 | e12 | e9.0 | e10 | 73 | 47 | 37 | 42 |
| 3 | e20 | e22 | e18 | e16 | e14 | e12 | e9.0 | e12 | 70 | 46 | 37 | 39 |
| 4 | e20 | e19 | e18 | e16 | e13 | e11 | e9.0 | e14 | 68 | 46 | 36 | 38 |
| 5 | e20 | e18 | e18 | e16 | e13 | e11 | e9.0 | 17 | 66 | 45 | 36 | 38 |
| 6 | e20 | e16 | e18 | e16 | e13 | e11 | e9.0 | 17 | 66 | 44 | 36 | 40 |
| 7 | e20 | e14 | e18 | e15 | e13 | e11 | e9.0 | 26 | 64 | 43 | 35 | 37 |
| 8 | e20 | e15 | e18 | e15 | e13 | e11 | e9.0 | 25 | 61 | 43 | 35 | 36 |
| 9 | 21 | e17 | e18 | e15 | e13 | e11 | e9.0 | 28 | 60 | 43 | 35 | 47 |
| 10 | 23 | e18 | e17 | e15 | e13 | e11 | e9.0 | 34 | 59 | 43 | 39 | 42 |
| 11 | 20 | e19 | e17 | e15 | e13 | e11 | e9.0 | 37 | 57 | 42 | 38 | 50 |
| 12 | 20 | e20 | e17 | e15 | e13 | e11 | e9.0 | 41 | 87 | 42 | 35 | 56 |
| 13 | 20 | e20 | e17 | e15 | e13 | e11 | e9.0 | 52 | 60 | 41 | 35 | 46 |
| 14 | 19 | e20 | e17 | e15 | e13 | e11 | e9.0 | 61 | 57 | 41 | 35 | 47 |
| 15 | 22 | e19 | e17 | e15 | e13 | e11 | e9.0 | 61 | 55 | 41 | 34 | 61 |
| 16 | 21 | e19 | e17 | e15 | e13 | e11 | e8.0 | 66 | 54 | 42 | 35 | 53 |
| 17 | 20 | e19 | e17 | e15 | e13 | e11 | e8.0 | 56 | 60 | 41 | 35 | 50 |
| 18 | 26 | e19 | e17 | e15 | e12 | e10 | e8.0 | 40 | 67 | 40 | 37 | 49 |
| 19 | 25 | e19 | e17 | e15 | e12 | e10 | e8.0 | 38 | 56 | 39 | 34 | 48 |
| 20 | 23 | e19 | e17 | e15 | e12 | e10 | e8.0 | 37 | 53 | 39 | 35 | 46 |
| 21 | 22 | e19 | e17 | e14 | e12 | e10 | e8.0 | 37 | 53 | 44 | 35 | 59 |
| 22 | 25 | e19 | e17 | e14 | e12 | e10 | e8.0 | 41 | 52 | 50 | 42 | 80 |
| 23 | 32 | e19 | e17 | e14 | e12 | e10 | e8.0 | 45 | 51 | 43 | 49 | 65 |
| 24 | 27 | e19 | e16 | e14 | e12 | e10 | e8.0 | 51 | 50 | 41 | 40 | 60 |
| 25 | 24 | e19 | e16 | e14 | e12 | e10 | e8.0 | 115 | 50 | 40 | 37 | 57 |
| 26 | 27 | e19 | e16 | e14 | e12 | e10 | e8.0 | 169 | 49 | 54 | 35 | 56 |
| 27 | 31 | e19 | e16 | e14 | e12 | e10 | e8.0 | 126 | 49 | 42 | 38 | 56 |
| 28 | 27 | e18 | e16 | e14 | e12 | e10 | e8.0 | 102 | 48 | 39 | 40 | 55 |
| 29 | 27 | e18 | e16 | e14 | --- | e10 | e9.0 | 105 | 47 | 38 | 42 | 57 |
| 30 | e26 | e18 | e16 | e14 | --- | e10 | e9.0 | 95 | 48 | 38 | 39 | 57 |
| 31 | e25 | --- | e16 | e14 | --- | e10 | --- | 95 | --- | 38 | 36 | --- |
| TOTAL | 715 | 566 | 528 | 460 | 356 | 330 | 258.0 | 1663 | 1778 | 1323 | 1149 | 1502 |
| MEAN | 23.1 | 18.9 | 17.0 | 14.8 | 12.7 | 10.6 | 8.60 | 53.6 | 59.3 | 42.7 | 37.1 | 50.1 |
| MAX | 32 | 24 | 18 | 16 | 14 | 12 | 10 | 169 | 88 | 54 | 49 | 80 |
| MIN | 19 | 14 | 16 | 14 | 12 | 10 | 8.0 | 10 | 47 | 38 | 34 | 35 |
| AC-FT | 1420 | 1120 | 1050 | 912 | 706 | 655 | 512 | 3300 | 3530 | 2620 | 2280 | 2980 |
| CFSM | 1.18 | 0.96 | 0.87 | 0.76 | 0.65 | 0.54 | 0.44 | 2.74 | 3.03 | 2.18 | 1.89 | 2.56 |
| IN. | 1.36 | 1.08 | 1.00 | 0.87 | 0.68 | 0.63 | 0.49 | 3.16 | 3.38 | 2.52 | 2.19 | 2.86 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2004 - 2005, BY WATER YEAR (WY)

| | 2004 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 |
|------|------|------|------|------|------|------|------|------|------|------|------|------|
| MEAN | 23.1 | 18.9 | 17.0 | 14.8 | 12.7 | 10.6 | 8.60 | 53.6 | 44.6 | 33.3 | 29.4 | 34.9 |
| MAX | 23.1 | 18.9 | 17.0 | 14.8 | 12.7 | 10.6 | 8.60 | 53.6 | 59.3 | 42.7 | 37.1 | 50.1 |
| (WY) | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 |
| MIN | 23.1 | 18.9 | 17.0 | 14.8 | 12.7 | 10.6 | 8.60 | 53.6 | 30.0 | 24.0 | 21.7 | 19.8 |
| (WY) | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2005 | 2004 | 2004 | 2004 | 2004 |

SUMMARY STATISTICS

FOR 2005 WATER YEAR

| | |
|--------------------------|--------------|
| ANNUAL TOTAL | 10628 |
| ANNUAL MEAN | 29.1 |
| HIGHEST DAILY MEAN | 169 May 26 |
| LOWEST DAILY MEAN | a8.0 Apr 16 |
| ANNUAL SEVEN-DAY MINIMUM | 8.0 Apr 16 |
| MAXIMUM PEAK FLOW | 272 May 25 |
| MAXIMUM PEAK STAGE | 10.77 May 25 |
| MAXIMUM PEAK STAGE | b11.08 Dec 7 |
| ANNUAL RUNOFF (AC-FT) | 21080 |
| ANNUAL RUNOFF (CFSM) | 1.49 |
| ANNUAL RUNOFF (INCHES) | 20.21 |
| 10 PERCENT EXCEEDS | 56 |
| 50 PERCENT EXCEEDS | 20 |
| 90 PERCENT EXCEEDS | 10 |

See Period of Record. Partial years used in monthly statistics

a Apr. 16-28

b Backwater from ice

e Estimated