

Water-Data Report 2007

15302000 NUYAKUK RIVER NEAR DILLINGHAM, AK

Nushagak River Basin
Upper Nushagak River Subbasin

LOCATION.--Lat 59°56'08", long 158°11'16" referenced to North American Datum of 1927, Dillingham Division, AK, Hydrologic Unit 19030301, (Dillingham D-6 quad), on the left bank 350 ft downstream from outlet of Tikchik Lake, about 0.6 mi upstream from unnamed tributary entering from left bank and 62 mi north of Dillingham.

DRAINAGE AREA.--1490.00 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 1953 to September 1996, July 2002 to September 2004, and July to September 2007.

REVISED RECORDS.--WRD-Alaska 1972; 1971.

GAGE.--Water-stage recorder. Elevation of gage is 325 ft above sea level from topographic map. Prior to Oct. 8, 1983, at site 650 ft downstream at different datum, but datum was 2.00 ft higher from May 1953 to Oct. 1, 1957.

REMARKS.--Records good, except for estimated daily discharges, which are poor. GOES satellite telemetry at station. Discharge affected by storage in Tikchik Lake, Nuyakuk Lake, Lake Chauekuktuli, and other smaller lakes covering over 170 mi² of the basin.

15302000 NUYAKUK RIVER NEAR DILLINGHAM, 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 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,000 | 7,850 | 8,090 |
| 2 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,000 | 7,850 | 7,920 |
| 3 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,100 | e8,000 | 7,730 |
| 4 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,200 | e8,100 | 8,260 |
| 5 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,200 | e8,400 | 8,650 |
| 6 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,200 | e8,800 | 8,650 |
| 7 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,200 | e9,000 | 8,470 |
| 8 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,300 | e9,500 | 8,830 |
| 9 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,500 | e9,700 | 9,130 |
| 10 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,800 | e10,000 | 9,250 |
| 11 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,900 | e9,900 | 9,120 |
| 12 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,100 | e9,800 | 10,100 |
| 13 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,300 | e9,700 | 10,600 |
| 14 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,400 | e9,600 | 11,000 |
| 15 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,500 | e9,400 | 11,100 |
| 16 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,600 | e9,200 | 11,100 |
| 17 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,500 | e9,000 | 11,100 |
| 18 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,400 | e8,900 | 11,000 |
| 19 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,300 | e8,800 | 11,400 |
| 20 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,200 | e8,700 | 11,600 |
| 21 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,100 | e8,600 | 11,800 |
| 22 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,100 | e8,500 | 11,700 |
| 23 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,000 | 8,380 | 11,600 |
| 24 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e9,000 | 8,510 | 11,500 |
| 25 | --- | --- | --- | --- | --- | --- | --- | --- | --- | e8,900 | 8,490 | 11,400 |
| 26 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8,820 | 8,500 | 11,200 |
| 27 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8,760 | 8,510 | 11,000 |
| 28 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8,580 | 8,500 | 11,000 |
| 29 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8,420 | 8,460 | 11,000 |
| 30 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8,260 | 8,350 | 10,800 |
| 31 | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8,040 | 8,230 | --- |
| Total | --- | --- | --- | --- | --- | --- | --- | --- | --- | 271,680 | 273,230 | 306,100 |
| Mean | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8,764 | 8,814 | 10,200 |
| Max | --- | --- | --- | --- | --- | --- | --- | --- | --- | 9,600 | 10,000 | 11,800 |
| Min | --- | --- | --- | --- | --- | --- | --- | --- | --- | 8,000 | 7,850 | 7,730 |
| Ac-ft | --- | --- | --- | --- | --- | --- | --- | --- | --- | 538,900 | 542,000 | 607,100 |
| Cfsm | --- | --- | --- | --- | --- | --- | --- | --- | --- | 5.88 | 5.92 | 6.85 |
| In. | --- | --- | --- | --- | --- | --- | --- | --- | --- | 6.78 | 6.82 | 7.64 |

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1953 - 2007, BY WATER YEAR (WY)[#]

| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep |
|-------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| Mean | 7,767 | 5,207 | 3,393 | 2,528 | 2,127 | 1,859 | 1,805 | 4,687 | 15,400 | 13,680 | 8,854 | 8,082 |
| Max | 13,350 | 13,150 | 11,160 | 5,310 | 4,082 | 3,265 | 2,692 | 11,320 | 23,290 | 26,220 | 24,190 | 17,070 |
| (WY) | (1992) | (2003) | (2003) | (2003) | (2003) | (2003) | (1993) | (1978) | (1969) | (1977) | (1977) | (1989) |
| Min | 3,816 | 2,570 | 1,848 | 1,397 | 1,252 | 990 | 800 | 1,719 | 10,360 | 6,794 | 3,855 | 3,944 |
| (WY) | (1969) | (1969) | (1964) | (1964) | (1964) | (1976) | (1960) | (1964) | (1954) | (1954) | (1957) | (2004) |

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SUMMARY STATISTICS

| | Water Years 1953 - 2007 [#] | |
|---------------------------------|--------------------------------------|--------------|
| Annual mean | 6,313 | |
| Highest annual mean | 9,470 | 1977 |
| Lowest annual mean | 4,236 | 1954 |
| Highest daily mean | 32,100 | Jul 2, 1977 |
| Lowest daily mean | ^a 770 | Apr 16, 1960 |
| Annual seven-day minimum | 770 | Apr 16, 1960 |
| Maximum peak flow | 32,200 | Jul 2, 1977 |
| Maximum peak stage | ^b 10.49 | Jul 2, 1977 |
| Instantaneous low flow | 770 | Apr 16, 1960 |
| Annual runoff (ac-ft) | 4,573,000 | |
| Annual runoff (cfsm) | 4.24 | |
| Annual runoff (inches) | 57.56 | |
| 10 percent exceeds | 14,300 | |
| 50 percent exceeds | 4,390 | |
| 90 percent exceeds | 1,700 | |

[#] See Period of Record; partial years used in monthly statistics

^a Apr. 16-30, 1960

^b Site and datum then in use

