

Water-Data Report 2007

15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL, AK

Southern Southeast Alaska Basin
Southeast Mainland Subbasin

LOCATION.--Lat 56°14'26", long 130°52'49" referenced to North American Datum of 1927, in NW ¼ NW ¼ NE ¼ sec.16, T.65 S., R.94 E., Prince of Wales-Outer Ketchikan Division, AK, Hydrologic Unit 19010101, (Bradfield Canal A-3 quad), in Misty Fiords National Monument, on right bank 17 mi upstream from the Post (Bishop Ranch), near the mouth of Burroughs Bay and approximately 60 mi southeast of Wrangell.

DRAINAGE AREA.--745 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 2003 to September 2007 (discontinued, no winter record).

GAGE.--Water-stage recorder. Elevation of gage is 130 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair. GOES satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 34,800 ft³/s, October 26, 2003, gage height 29.48 ft; minimum discharge not determined, usually occurs during winter.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 32,800 ft³/s, September 24, gage-height 32.45 ft; minimum discharge undetermined, usually occurs during winter.

15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL, AK—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	9,510	2,740	---	---	---	---	544	2,810	9,900	14,100	9,670	10,100
2	7,280	2,580	---	---	---	---	508	2,860	11,500	13,600	10,200	8,000
3	5,930	2,380	---	---	---	---	490	3,480	14,500	13,500	10,700	7,590
4	5,340	2,210	---	---	---	---	478	4,260	18,300	14,700	10,900	7,710
5	6,640	2,150	---	---	---	---	499	4,040	17,200	16,000	10,300	8,420
6	5,210	2,130	---	---	---	---	593	3,760	15,500	14,100	10,600	8,460
7	4,560	2,130	---	---	---	---	956	3,840	13,800	12,900	11,800	8,280
8	4,060	2,020	---	---	---	1,390	1,590	3,510	12,500	12,500	11,500	6,940
9	3,760	1,950	---	---	---	1,160	2,250	3,250	11,200	12,500	10,500	7,090
10	4,010	1,890	---	---	---	999	2,320	3,100	11,000	22,400	10,300	8,330
11	4,690	1,830	---	---	---	906	2,020	3,150	11,500	30,200	10,400	9,450
12	5,380	1,760	---	---	---	820	1,820	3,210	11,300	24,300	10,200	8,850
13	5,300	1,630	---	---	---	759	1,810	3,250	10,600	20,900	9,840	7,710
14	6,890	1,710	---	---	---	715	1,790	3,380	10,800	19,700	9,450	7,000
15	6,050	1,640	---	---	---	677	1,760	4,120	11,500	18,800	10,300	9,150
16	4,590	1,590	---	---	---	666	1,850	5,650	13,300	17,600	11,900	10,500
17	3,870	1,580	---	---	---	643	1,860	5,990	15,900	16,400	12,800	7,840
18	4,460	1,570	---	---	---	589	1,860	5,320	13,800	16,200	13,400	6,650
19	6,300	1,850	---	---	---	570	1,870	5,480	11,700	15,700	11,700	5,800
20	5,440	1,770	---	---	---	556	2,000	5,640	11,300	14,400	9,830	6,100
21	4,400	1,540	---	---	---	573	2,220	5,970	12,200	13,300	9,530	10,500
22	4,830	---	---	---	---	684	2,640	6,750	11,400	13,100	9,220	8,650
23	7,700	---	---	---	---	734	3,130	7,390	10,200	13,900	8,650	6,410
24	7,480	---	---	---	---	794	3,850	7,940	9,370	13,900	8,650	8,180
25	5,900	---	---	---	---	784	3,750	8,760	8,990	12,800	10,200	10,600
26	5,550	---	---	---	---	757	3,430	9,960	9,100	12,100	8,810	10,600
27	4,570	---	---	---	---	712	3,400	9,570	10,200	12,100	7,810	9,000
28	3,820	---	---	---	---	694	3,050	8,310	11,100	12,100	7,240	6,790
29	3,300	---	---	---	---	663	2,980	8,300	12,600	11,700	8,470	5,840
30	2,970	---	---	---	---	615	2,890	8,690	14,200	10,800	9,290	5,480
31	2,880	---	---	---	---	574	---	10,100	---	10,200	9,930	---
Total	162,670	---	---	---	---	---	60,208	171,840	366,460	476,500	314,090	242,020
Mean	5,247	---	---	---	---	---	2,007	5,543	12,220	15,370	10,130	8,067
Max	9,510	---	---	---	---	---	3,850	10,100	18,300	30,200	13,400	10,600
Min	2,880	---	---	---	---	---	478	2,810	8,990	10,200	7,240	5,480
Ac-ft	322,700	---	---	---	---	---	119,400	340,800	726,900	945,100	623,000	480,000
Cfsm	7.04	---	---	---	---	---	2.69	7.44	16.4	20.6	13.6	10.8
In.	8.12	---	---	---	---	---	3.01	8.58	18.30	23.79	15.68	12.08

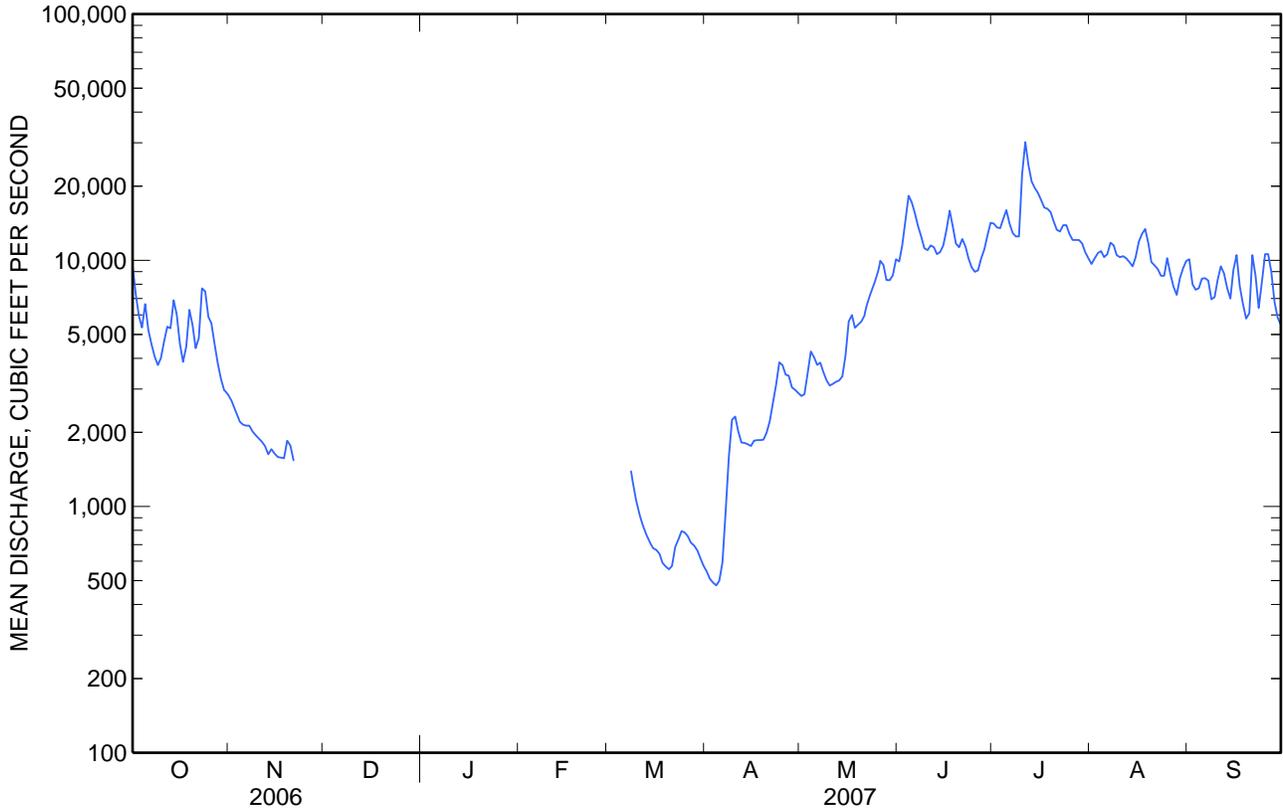
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6,051	4,495	---	---	---	2,014	2,459	6,199	10,590	11,870	9,883	8,937
Max	7,079	5,685	---	---	---	2,014	3,252	8,283	12,220	15,370	10,760	10,350
(WY)	(2004)	(2006)	(---)	(---)	(---)	(2005)	(2005)	(2005)	(2007)	(2007)	(2005)	(2003)
Min	5,247	3,305	---	---	---	2,014	1,494	4,607	8,701	10,610	9,075	7,791
(WY)	(2007)	(2005)	(---)	(---)	(---)	(2005)	(2006)	(2003)	(2003)	(2005)	(2003)	(2004)

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SUMMARY STATISTICS

Water Years 2003 - 2007		
Highest daily mean	30,200	Jul 11, 2007
Lowest daily mean	478	Apr 4, 2007
Annual seven-day minimum	527	Mar 31, 2007



15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL, AK—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 2003 to 2007 (discontinued).

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: April 2003 to September 2007 (discontinued).

INSTRUMENTATION.--Digital water-temperature recorder with 15-minute recording interval.

REMARKS.--Records represent water temperature at the sensor within 0.5 C. No cross-section measurements were taken in 2007 water year.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 11.0°C, July 9, 23-24, 2004; minimum, 0.0°C, many days during most winter periods.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum recorded, 9.0°C, July 17; minimum, 0.0°C, many days during winter.

**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	7.0	5.5	6.0	4.0	3.0	3.5	0.5	0.0	0.5	2.0	1.0	1.5
2	6.0	5.0	5.5	3.5	2.5	3.0	1.0	0.5	0.5	2.0	1.5	1.5
3	5.5	4.0	5.0	2.5	1.5	2.0	1.0	1.0	1.0	2.0	2.0	2.0
4	5.5	5.0	5.0	2.0	1.0	1.5	1.0	1.0	1.0	2.0	1.0	1.5
5	6.5	5.5	6.0	2.0	1.0	1.5	1.5	1.0	1.0	1.0	0.0	0.5
6	6.5	5.5	6.0	1.5	1.0	1.0	1.5	1.0	1.0	1.5	1.0	1.5
7	6.5	5.5	6.0	1.5	0.5	1.0	1.0	1.0	1.0	1.5	0.5	1.0
8	6.0	4.5	5.0	2.0	1.5	1.5	1.5	1.0	1.0	1.0	0.5	1.0
9	6.5	5.5	6.0	2.5	2.0	2.0	2.0	1.5	1.5	1.5	0.5	1.0
10	7.5	6.0	6.5	3.0	2.0	2.5	2.0	2.0	2.0	0.5	0.0	0.0
11	7.0	6.0	6.5	3.0	2.5	2.5	2.5	2.0	2.0	0.5	0.0	0.0
12	7.0	6.5	6.5	3.0	1.5	2.5	2.0	1.5	1.5	0.0	0.0	0.0
13	6.5	6.5	6.5	1.5	1.0	1.0	2.0	2.0	2.0	0.5	0.0	0.5
14	6.5	6.0	6.0	1.5	1.0	1.5	2.5	2.0	2.0	0.5	0.0	0.5
15	6.5	6.0	6.0	2.0	1.0	1.5	2.0	1.5	2.0	0.5	0.0	0.5
16	6.5	5.5	6.0	1.5	1.0	1.0	1.5	1.0	1.0	1.0	0.5	1.0
17	5.5	4.5	5.0	2.0	1.5	1.5	1.0	0.0	0.5	1.0	1.0	1.0
18	5.5	5.0	5.5	2.0	1.0	1.5	0.5	0.0	0.5	1.0	0.5	1.0
19	6.0	5.5	6.0	2.0	1.5	2.0	1.0	0.5	1.0	1.0	1.0	1.0
20	6.5	6.0	6.0	2.5	2.0	2.0	1.0	1.0	1.0	1.5	0.5	1.0
21	6.5	6.0	6.0	2.0	1.0	1.5	1.5	1.0	1.5	1.5	0.5	1.0
22	6.5	6.0	6.0	1.0	0.5	1.0	1.5	1.0	1.5	1.5	1.0	1.5
23	6.0	5.0	5.0	0.5	0.0	0.0	2.0	1.0	1.5	1.5	1.0	1.5
24	6.0	5.0	5.5	0.5	0.0	0.0	2.0	1.5	1.5	1.5	0.5	1.0
25	5.5	4.0	4.5	0.5	0.0	0.0	1.5	0.5	1.0	1.0	0.5	1.0
26	5.0	4.5	4.5	0.0	0.0	0.0	2.0	0.5	1.5	1.0	0.5	1.0
27	4.5	4.0	4.5	0.0	0.0	0.0	2.0	1.0	1.5	1.0	0.5	1.0
28	4.5	3.5	4.0	0.0	0.0	0.0	1.0	0.0	0.5	1.5	1.0	1.0
29	3.5	2.5	3.0	0.0	0.0	0.0	1.0	0.5	1.0	2.0	1.5	1.5
30	3.0	2.0	2.5	0.0	0.0	0.0	1.5	1.0	1.0	1.5	1.0	1.5
31	3.5	2.5	3.0	---	---	---	1.5	1.0	1.5	2.0	1.0	1.5
Month	7.5	2.0	5.3	4.0	0.0	1.3	2.5	0.0	1.2	2.0	0.0	1.0

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	2.0	1.0	1.5	0.5	0.0	0.0	3.5	1.0	2.0	6.0	3.0	4.5
2	1.5	0.5	1.0	0.0	0.0	0.0	4.0	0.5	2.0	5.0	3.5	4.0
3	1.5	0.5	1.0	0.0	0.0	0.0	3.5	0.5	1.5	6.0	3.5	4.5
4	2.5	1.5	2.0	0.0	0.0	0.0	3.5	0.5	2.0	5.0	2.5	4.0
5	2.5	1.5	2.0	0.5	0.0	0.5	3.0	2.0	2.5	4.5	3.0	4.0
6	2.5	1.5	2.0	1.0	0.5	0.5	3.5	2.5	3.0	4.5	3.0	4.0
7	2.5	1.5	2.0	1.0	0.5	1.0	4.5	2.5	3.5	6.0	3.0	4.5
8	2.0	1.0	1.5	1.5	0.5	1.0	3.5	2.5	3.0	6.0	2.5	4.5
9	1.5	0.5	1.0	1.5	1.0	1.0	3.5	2.0	2.5	6.0	3.5	4.5
10	1.0	0.5	0.5	2.0	0.5	1.5	4.0	2.0	3.0	6.5	3.5	5.0
11	1.0	0.5	0.5	3.0	1.0	2.0	4.5	2.5	3.5	5.5	3.5	4.5
12	1.0	0.5	1.0	3.0	1.5	2.0	4.0	2.5	3.5	6.5	3.5	5.0
13	1.0	0.5	1.0	3.0	1.0	2.0	4.5	2.5	3.5	6.0	3.5	5.0
14	1.0	0.5	0.5	2.5	1.5	2.0	4.5	3.0	3.5	6.5	4.0	5.0
15	1.5	1.0	1.0	2.5	1.5	2.0	3.5	2.5	3.0	7.0	3.5	5.0
16	2.5	1.0	2.0	2.5	1.5	2.0	5.0	2.0	3.0	5.0	3.0	4.0
17	2.0	1.0	1.5	3.0	1.5	2.0	6.5	3.0	4.0	6.0	2.5	4.5
18	2.5	1.5	2.0	3.0	1.0	2.0	6.0	2.5	4.0	6.5	3.0	5.0
19	2.0	1.5	1.5	3.0	2.0	2.5	6.0	2.5	4.0	5.0	3.5	4.0
20	2.0	0.5	1.5	3.5	1.5	2.5	5.5	2.5	4.0	6.5	3.0	4.5
21	1.5	0.5	1.0	2.5	1.0	2.0	7.0	3.0	4.5	7.5	3.0	5.0
22	2.0	1.0	1.5	4.0	2.0	3.0	5.0	2.5	3.5	7.0	3.0	5.0
23	2.5	1.0	1.5	4.5	2.0	3.0	4.0	2.5	3.0	7.0	3.0	5.0
24	3.0	1.5	2.0	5.0	2.5	3.5	4.0	2.0	3.0	7.0	3.0	4.5
25	2.5	0.5	1.5	3.5	2.0	3.0	4.5	2.5	3.5	5.5	3.0	4.0
26	0.5	0.0	0.5	4.5	2.0	3.0	4.0	2.5	3.5	5.5	3.0	4.0
27	0.5	0.0	0.0	3.0	1.0	2.0	4.5	2.5	3.5	6.0	3.0	4.5
28	0.5	0.0	0.0	1.5	1.0	1.5	4.0	3.0	3.5	6.5	3.5	5.0
29	---	---	---	4.0	1.0	2.5	4.5	3.0	3.5	5.5	4.0	4.5
30	---	---	---	5.0	2.0	3.0	6.0	3.0	4.5	6.0	4.0	5.0
31	---	---	---	5.0	1.5	2.5	---	---	---	6.5	3.5	5.0
Month	3.0	0.0	1.2	5.0	0.0	1.8	7.0	0.5	3.2	7.5	2.5	4.6

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	7.0	3.5	5.0	7.5	5.5	6.5	8.5	6.5	7.5	---	---	---
2	7.0	3.5	5.0	7.5	6.0	6.5	8.0	7.0	7.5	---	---	---
3	7.5	3.5	5.0	6.5	6.0	6.5	8.5	7.0	7.5	---	---	---
4	5.5	3.0	4.5	6.5	5.5	6.0	---	---	---	---	---	---
5	5.5	3.5	4.5	7.0	5.0	6.0	---	---	---	---	---	---
6	5.0	4.0	4.5	8.0	5.0	6.5	---	---	---	---	---	---
7	7.5	4.0	5.5	8.0	5.0	7.0	---	---	---	---	---	---
8	7.5	3.5	5.5	7.5	5.5	6.5	---	---	---	---	---	---
9	6.5	3.5	5.0	7.0	5.5	6.0	---	---	---	---	---	---
10	6.5	4.0	5.5	6.0	5.5	5.5	---	---	---	---	---	---
11	7.0	4.0	5.5	6.0	5.0	5.5	---	---	---	---	---	---
12	6.5	4.0	5.5	7.5	5.0	6.0	---	---	---	---	---	---
13	8.5	4.0	6.0	7.5	5.0	6.0	---	---	---	---	---	---
14	8.0	4.0	6.0	8.0	5.5	6.5	---	---	---	---	---	---
15	8.0	3.5	5.5	6.5	5.5	6.0	---	---	---	---	---	---
16	7.5	4.0	6.0	7.0	5.5	6.0	---	---	---	---	---	---
17	6.5	4.5	5.0	9.0	5.5	7.0	---	---	---	---	---	---
18	6.5	4.5	5.5	8.0	6.0	7.0	---	---	---	---	---	---
19	7.0	4.5	5.5	8.0	6.0	6.5	---	---	---	---	---	---
20	7.5	5.0	6.0	7.5	5.5	6.5	---	---	---	---	---	---
21	7.5	4.5	6.0	8.0	6.0	7.0	---	---	---	---	---	---
22	8.0	4.5	6.5	8.0	7.0	7.5	---	---	---	---	---	---
23	7.0	4.5	6.0	8.5	6.0	7.0	---	---	---	---	---	---
24	7.0	5.0	6.0	8.0	6.0	6.5	---	---	---	---	---	---
25	6.5	5.0	5.5	9.0	6.0	7.5	---	---	---	---	---	---
26	8.5	5.0	6.5	7.5	6.5	7.0	---	---	---	---	---	---
27	7.0	5.5	6.0	7.5	6.0	7.0	---	---	---	---	---	---
28	8.0	5.0	6.5	8.0	6.0	7.0	---	---	---	---	---	---
29	7.5	5.5	6.0	7.5	6.0	7.0	---	---	---	---	---	---
30	6.5	5.5	6.0	7.5	6.0	6.5	---	---	---	---	---	---
31	---	---	---	8.0	6.0	7.0	---	---	---	---	---	---
Month	8.5	3.0	5.6	9.0	5.0	6.5	---	---	---	---	---	---

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THE RETRIEVED PLOT DATA CONSIST ENTIRELY OF MISSING
VALUES OR, IN THE CASE OF A LOG PLOT, OF NEGATIVE AND
ZERO VALUES