

SOUTHEAST ALASKA

15022000 HARDING RIVER NEAR WRANGELL

LOCATION.--Lat 56°12'48", long 131°38'12", in SW¹/₄ SW¹/₄ sec. 22, T. 65 S., R. 89 E. (Bradfield Canal A-5 quad), Hydrologic Unit 19010101, in Tongass National Forest, on right bank 1 mi upstream from mouth on north shore of Bradfield Canal, 4 mi downstream from Fall Lake, and 34 mi southeast of Wrangell.

DRAINAGE AREA.--67.4 mi².

PERIOD OF RECORD.--August 1951 to April 30, 2004. (discontinued)

REVISED RECORDS.--WSP 1640: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above sea level, by barometer. Prior to September 30, 1960, at site 300 ft upstream at datum 0.12 ft lower. October 1, 1960, to August 23, 1975, at prior site and present datum.

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

EXTREMES FOR CURRENT PERIOD.-- Maximum discharge for period October 2003 through April 2004, 11,300 ft³/s, Oct. 26, gage height 13.57, minimum not determined, minimum daily mean discharge 70 ft³/s January 28.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	531	310	345	e150	e76	e150	348	---	---	---	---	---
2	481	263	651	e120	e80	e140	339	---	---	---	---	---
3	439	227	436	e90	e85	e130	492	---	---	---	---	---
4	429	e190	270	e85	e90	e120	658	---	---	---	---	---
5	476	e180	228	e80	e94	e110	480	---	---	---	---	---
6	690	e170	192	e80	e100	166	386	---	---	---	---	---
7	1080	e160	181	e85	e400	372	381	---	---	---	---	---
8	973	e150	e170	e90	e500	725	464	---	---	---	---	---
9	631	e140	e160	e97	e520	860	486	---	---	---	---	---
10	769	e130	e150	e200	e400	454	587	---	---	---	---	---
11	587	e190	e145	e390	e310	419	927	---	---	---	---	---
12	402	1480	e160	e600	e290	356	1320	---	---	---	---	---
13	365	4470	e190	e900	e270	269	1010	---	---	---	---	---
14	677	1390	e240	e1400	e250	237	787	---	---	---	---	---
15	518	666	e300	e1200	e240	272	671	---	---	---	---	---
16	385	479	e330	724	e230	307	518	---	---	---	---	---
17	501	388	e320	868	214	291	460	---	---	---	---	---
18	1180	328	384	1120	298	213	457	---	---	---	---	---
19	1670	266	1430	905	480	e170	395	---	---	---	---	---
20	834	216	1200	702	510	e150	364	---	---	---	---	---
21	1120	e170	688	889	574	e140	411	---	---	---	---	---
22	1020	e140	2080	1250	410	e130	515	---	---	---	---	---
23	1150	e120	2140	1140	332	e120	715	---	---	---	---	---
24	914	e110	987	642	317	e178	725	---	---	---	---	---
25	6780	e105	770	403	258	215	813	---	---	---	---	---
26	8100	e101	515	e200	221	223	1310	---	---	---	---	---
27	1930	e100	364	e73	196	255	932	---	---	---	---	---
28	1610	e100	276	e70	181	395	670	---	---	---	---	---
29	763	e110	237	e71	e160	690	622	---	---	---	---	---
30	495	e190	213	e72	---	913	880	---	---	---	---	---
31	379	---	191	e73	---	490	---	---	---	---	---	---
TOTAL	37879	13039	15943	14769	8086	9660	19123	---	---	---	---	---
MEAN	1222	435	514	476	279	312	637	---	---	---	---	---
MAX	8100	4470	2140	1400	574	913	1320	---	---	---	---	---
MIN	365	100	145	70	76	110	339	---	---	---	---	---
MED	690	185	300	200	258	237	553	---	---	---	---	---
AC-FT	75130	25860	31620	29290	16040	19160	37930	---	---	---	---	---
CFSM	18.1	6.45	7.63	7.07	4.14	4.62	9.46	---	---	---	---	---
IN.	20.91	7.20	8.80	8.15	4.46	5.33	10.55	---	---	---	---	---

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2004, BY WATER YEAR (WY)#

MEAN	1077	499	345	263	236	204	366	918	1385	1340	1137	1161
MAX	2152	1252	1065	819	655	510	733	1357	1896	1878	1871	2039
(WY)	1962	1970	1990	1981	1954	1986	1994	1956	1996	1972	2002	2001
MIN	610	118	102	50.6	46.7	54.8	90.0	624	960	861	601	507
(WY)	1970	1986	1984	1969	1969	1969	1954	1977	1981	1995	1993	1965

See Period of Record; partial years used in monthly statistics
e Estimated

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		WATER YEARS 1951 - 2004#	
ANNUAL TOTAL	287791			
ANNUAL MEAN	788		747	
HIGHEST ANNUAL MEAN			921	1992
LOWEST ANNUAL MEAN			558	1995
HIGHEST DAILY MEAN	8100	Oct 26	11400	Oct 14 1961
LOWEST DAILY MEAN	94	Mar 12	a35	Jan 23 1969
ANNUAL SEVEN-DAY MINIMUM	107	Nov 23	35	Jan 23 1969
MAXIMUM PEAK FLOW	b11300	Oct 26	b15300	Oct 26 1993
MAXIMUM PEAK STAGE	13.57	Oct 26	c16.22	Oct 14 1961
INSTANTANEOUS LOW FLOW	d		35	Jan 23 1969
ANNUAL RUNOFF (AC-FT)	570800		541100	
ANNUAL RUNOFF (CFSM)	11.7		11.1	
ANNUAL RUNOFF (INCHES)	158.84		150.56	
10 PERCENT EXCEEDS	1610		1610	
50 PERCENT EXCEEDS	504		544	
90 PERCENT EXCEEDS	140		110	

- # See Period of Record; partial years used in monthly statistics
- a From Jan. 23 to Feb. 11, 1969
- b From rating curve extended above 5,000 ft³/s on basis of slope-area measurement at gage height, 13.90 ft
- c At site then in use
- d Not determined, see lowest daily mean