

YUKON ALASKA

15515060 MARGUERITE CREEK ABOVE EMMA CREEK NEAR HEALY

LOCATION.--Lat 64°00'32", long 148°43'33", in NE¹/₄ sec. 33, T. 10 S., R. 6 W., (Fairbanks A-4 quad), Hydrologic Unit 19040507, on left bank 1200 ft upstream of mouth of Emma Cr, 12.6 mi northeast of Healy.

DRAINAGE AREA.--15.2 mi².

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

GAGE.--Water-stage recorder. Elevation of gage is 1,850 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges which are poor. Precipitation gage at station; daily values of precipitation are available from the computer files of the Alaska Science Center, Water Resources Office. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--

Water year 2004--Maximum discharge for period June through September, 51 ft³/s, August 1, 2004, gage height 24.81 ft; minimum not determined, occurs during winter.

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	---	---	---	---	---	---	---	---	---	8.1	30	6.2
2	---	---	---	---	---	---	---	---	---	8.0	20	6.4
3	---	---	---	---	---	---	---	---	---	8.7	12	6.0
4	---	---	---	---	---	---	---	---	---	8.2	9.8	5.7
5	---	---	---	---	---	---	---	---	---	9.1	8.9	5.7
6	---	---	---	---	---	---	---	---	---	13	8.1	5.4
7	---	---	---	---	---	---	---	---	---	10	7.4	5.6
8	---	---	---	---	---	---	---	---	---	9.5	6.9	5.4
9	---	---	---	---	---	---	---	---	---	9.1	6.5	5.4
10	---	---	---	---	---	---	---	---	---	9.6	6.5	5.4
11	---	---	---	---	---	---	---	---	---	8.3	6.5	5.4
12	---	---	---	---	---	---	---	---	---	7.6	6.4	5.3
13	---	---	---	---	---	---	---	---	---	7.1	6.0	6.2
14	---	---	---	---	---	---	---	---	---	6.9	5.8	6.6
15	---	---	---	---	---	---	---	---	---	7.6	5.9	6.5
16	---	---	---	---	---	---	---	---	---	9.5	5.8	6.0
17	---	---	---	---	---	---	---	---	---	7.4	5.8	6.3
18	---	---	---	---	---	---	---	---	---	6.6	5.8	8.6
19	---	---	---	---	---	---	---	---	---	6.6	5.8	7.4
20	---	---	---	---	---	---	---	---	---	7.3	5.8	7.5
21	---	---	---	---	---	---	---	---	e8.8	6.7	5.9	8.3
22	---	---	---	---	---	---	---	---	8.7	6.2	5.9	7.7
23	---	---	---	---	---	‡5.1	---	---	8.4	8.4	5.8	9.2
24	---	---	---	---	---	---	---	---	8.1	8.8	5.9	8.8
25	---	---	---	---	---	‡5.8	---	---	7.9	7.2	6.0	e8.4
26	---	---	---	---	---	---	---	---	7.8	6.7	6.5	e8.2
27	---	---	---	---	---	---	---	---	7.6	6.4	6.5	8.3
28	---	---	---	---	---	---	---	---	7.6	6.4	6.4	8.4
29	---	---	---	---	---	---	---	---	7.7	7.0	6.3	e8.2
30	---	---	---	---	---	---	---	---	7.8	7.6	6.2	e7.8
31	---	---	---	---	---	---	---	---	---	6.9	6.1	---
TOTAL	---	---	---	---	---	---	---	---	---	246.5	243.2	206.3
MEAN	---	---	---	---	---	---	---	---	---	7.95	7.85	6.88
MAX	---	---	---	---	---	---	---	---	---	13	30	9.2
MIN	---	---	---	---	---	---	---	---	---	6.2	5.8	5.3
AC-FT	---	---	---	---	---	---	---	---	---	489	482	409
CFSM	---	---	---	---	---	---	---	---	---	0.52	0.52	0.45
IN.	---	---	---	---	---	---	---	---	---	0.60	0.59	0.50

‡ Result of discharge measurement
e Estimated

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15515060 MARGUERITE CREEK ABOVE EMMA CREEK NEAR HEALY—Continued

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	e7.2	e6.7	e6.5	e5.6	e5.0	e5.0	e4.9	e54	18	15	15	14
2	e9.0	e6.6	e6.5	e5.5	e5.0	e5.0	e4.9	38	14	21	14	13
3	e9.5	e6.5	e6.4	e5.5	e5.0	e5.0	e4.9	31	17	16	13	12
4	e12	e6.5	e6.4	e5.5	e5.0	e5.0	e4.9	29	31	21	13	11
5	e10	e6.6	e6.4	e5.4	e5.0	e5.0	e4.9	27	36	23	13	11
6	e9.0	e6.7	e6.4	e5.4	e5.0	e5.0	e4.9	24	25	19	14	11
7	e7.8	e6.8	e6.4	e5.4	e5.0	e5.0	e4.9	27	17	24	13	18
8	e7.2	e7.0	e6.3	e5.4	e5.0	e5.0	e4.9	25	14	23	12	32
9	e9.0	e7.1	e6.3	e5.3	e5.0	e5.0	e4.9	23	13	43	12	20
10	e7.0	e7.2	e6.3	e5.3	e5.0	e5.0	e4.9	21	12	28	12	16
11	e7.0	e7.3	e6.2	e5.2	e5.0	e5.0	e4.9	18	11	20	11	15
12	e6.6	e7.3	e6.2	e5.2	e5.0	e5.0	e4.9	16	11	18	11	14
13	e6.6	e7.2	e6.2	e5.1	e5.0	e5.0	e4.9	14	16	17	11	14
14	e6.8	e7.2	e6.1	e5.1	e5.0	e5.0	e4.9	13	14	16	11	14
15	e7.0	e7.1	e6.1	e5.1	e5.0	e5.0	e4.9	18	13	15	10	13
16	e6.9	e7.1	e6.1	e5.1	e5.1	e5.0	e4.9	22	19	15	10	13
17	e6.6	e7.0	e6.0	e5.1	e5.1	e5.0	e4.8	22	16	14	10	12
18	e6.6	e7.0	e6.0	e5.1	e5.1	e5.0	e4.8	28	13	26	10	13
19	e6.7	e6.9	e6.0	e5.0	e5.1	e5.0	e4.8	17	15	25	9.8	21
20	e6.7	e6.9	e6.0	e5.0	e5.1	e5.0	e4.8	14	32	19	9.8	18
21	e6.8	e6.8	e5.9	e5.0	e5.1	e5.0	e4.8	13	21	16	11	16
22	e6.9	e6.8	e5.9	e5.0	e5.1	e5.0	e5.5	15	17	15	11	14
23	e7.0	e6.8	e5.9	e5.0	e5.1	e4.9	e8.0	21	16	14	10	14
24	e7.1	e6.7	e5.8	e5.0	e5.1	e4.9	e14	15	15	14	9.6	16
25	e7.2	e6.7	e5.8	e5.0	e5.1	e4.9	e20	12	18	14	11	15
26	e7.3	e6.7	e5.8	e5.0	e5.0	e4.9	e30	12	19	13	11	13
27	e7.2	e6.6	e5.7	e5.0	e5.0	e4.9	e40	11	15	13	11	13
28	e7.1	e6.6	e5.7	e5.0	e5.0	e4.9	e50	10	13	14	11	13
29	e7.0	e6.6	e5.7	e5.0	---	e4.9	e56	9.8	12	13	12	13
30	e6.9	e6.5	e5.6	e5.0	---	e4.9	e60	9.4	12	20	12	12
31	e6.9	---	e5.6	e5.0	---	e4.9	---	14	---	17	15	---
TOTAL	232.6	205.5	188.2	160.3	141.0	154.1	385.9	623.2	515	581	359.2	444
MEAN	7.50	6.85	6.07	5.17	5.04	4.97	12.9	20.1	17.2	18.7	11.6	14.8
MAX	12	7.3	6.5	5.6	5.1	5.0	60	54	36	43	15	32
MIN	6.6	6.5	5.6	5.0	5.0	4.9	4.8	9.4	11	13	9.6	11
AC-FT	461	408	373	318	280	306	765	1240	1020	1150	712	881
CFSM	0.49	0.45	0.40	0.34	0.33	0.33	0.84	1.32	1.13	1.23	0.76	0.97
IN.	0.57	0.50	0.46	0.39	0.34	0.38	0.94	1.52	1.26	1.42	0.88	1.08

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

MEAN	7.50	6.85	6.07	5.17	5.04	4.97	12.9	20.1	17.2	13.3	9.72	10.8
MAX	7.50	6.85	6.07	5.17	5.04	4.97	12.9	20.1	17.2	18.7	11.6	14.8
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
MIN	7.50	6.85	6.07	5.17	5.04	4.97	12.9	20.1	17.2	7.95	7.85	6.88
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004	2004

SUMMARY STATISTICS

	FOR 2005 WATER YEAR	WATER YEARS 2004 - 2005#
ANNUAL TOTAL	3990.0	
ANNUAL MEAN	10.9	10.9
HIGHEST ANNUAL MEAN		10.9 2005
LOWEST ANNUAL MEAN		10.9 2005
HIGHEST DAILY MEAN	60 Apr 30	60 Apr 30 2005
LOWEST DAILY MEAN	a4.8 Apr 17	4.8 Apr 17 2005
ANNUAL SEVEN-DAY MINIMUM	4.8 Apr 15	4.8 Apr 15 2005
MAXIMUM PEAK FLOW	b Apr 30	51 Aug 1 2004
MAXIMUM PEAK STAGE		24.81 Aug 1 2004
MAXIMUM PEAK STAGE	c25.84 Apr 25	c25.84 Apr 25 2005
ANNUAL RUNOFF (AC-FT)	7910	7920
ANNUAL RUNOFF (CFSM)	0.718	0.718
ANNUAL RUNOFF (INCHES)	9.75	9.75
10 PERCENT EXCEEDS	20	20
50 PERCENT EXCEEDS	7.1	7.1
90 PERCENT EXCEEDS	5.0	5.0

See Period of Record, partial year used in monthly statistics

a From Apr. 17-21

b Not determined, occurred during period of backwater from ice and snow, see highest daily mean

c Backwater from snow and ice

e Estimated