15348000 FORTYMILE RIVER NEAR STEELE CREEK, AK

Canadian Tributaries Basin
Fortymile River Subbasin

LOCATION.--Lat 64°18′33″, long 141°24′08″ referenced to North American Datum of 1927, in SW ¼ SW ¼ NE ¼ sec.16, T.7 S., R.32 E., Yukon-Koyukuk Division, AK, Hydrologic Unit 19040104, (Eagle B-1 quad), on left bank, 300 feet downstream from bridge at mile 112.9 of Taylor Highway, 0.3 miles downstream from the mouth of O'Brien Creek, and 4.4 miles northwest of old townsite of Steele Creek, Alaska (Eagle B-1 quad).

DRAINAGE AREA.--5,880 mi^2, approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 1910 to October 1912, published as "at Steele Creek" (no winter records), October 1975 to September 1982, October 2005 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,200 ft National Geodetic Vertical Datum of 1929 (Alaska Department of Highways temporary bench mark). Prior to October 16, 1912 at site 6.8 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. GOES satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in June 1964 reached a stage of 34.5 ft from floodmarks, at previous Taylor Highway bridge and at different datum; discharge, 84,000 ft^3s, from rating curve extended above 43,000 ft^3s.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3,050	e300	e200	e70	e14	e5.0	e4.0	19,500	2,230	14,500	6,810	10,100
2	2,940	e310	e190	e70	e13	e5.0	e4.0	15,700	2,100	11,400	5,980	15,500
3	2,650	e320	e190	e70	e13	e5.0	e4.0	13,100	1,990	9,190	5,370	16,800
4	2,390	e320	e180	e66	e12	e5.0	e4.0	10,400	2,190	8,400	4,900	14,300
5	2,350	e310	e180	e62	e12	e5.0	e4.0	8,950	2,420	12,400	4,570	12,300
6	2,270	e310	e170	e56	e11	e5.0	e4.0	7,680	3,490	10,600	13,100	10,900
7	2,100	e300	e170	e56	e11	e5.0	e5.0	6,770	5,670	7,360	23,600	9,460
8	1,910	e300	e160	e54	e10	e5.0	e5.0	6,280	7,990	5,440	15,100	8,360
9	1,860	e290	e160	e54	e10	e5.0	e5.0	5,890	11,400	4,240	11,800	8,340
10	1,840	e290	e150	e54	e9.0	e5.0	e6.0	5,460	9,580	3,460	9,490	14,200
11	1,690	e280	e150	e52	e9.0	e5.0	e7.0	4,950	9,530	9,230	7,990	15,900
12	1,520	e280	e150	e50	e8.0	e5.0	e8.0	4,890	9,060	62,700	7,130	14,800
13	1,220	e270	e140	e48	e8.0	e5.0	e9.0	5,540	12,200	40,400	6,440	12,700
14	943	e270	e140	e46	e8.0	e5.0	e10	7,030	21,200	31,000	5,820	10,300
15	572	e260	e140	e44	e7.0	e5.0	e12	5,790	15,900	21,700	5,320	8,400
16	e420	e260	e130	e42	e7.0	e4.0	e15	5,170	10,800	14,900	5,000	7,340
17	e420	e250	e130	e40	e7.0	e4.0	e20	4,870	7,560	11,900	5,070	6,600
18	e480	e250	e120	e40	e7.0	e4.0	e35	5,080	5,490	9,890	5,460	6,050
19	e550	e240	e120	e38	e6.0	e4.0	e50	5,740	4,620	8,020	9,710	5,570
20	e600	e240	e110	e36	e6.0	e4.0	e70	7,210	4,630	6,670	12,100	5,140
21	e550	e230	e100	e32	e6.0	e4.0	e100	7,880	4,380	6,670	10,100	4,780
22	e520	e230	e90	e28	e6.0	e4.0	e200	6,320	10,000	8,260	8,210	4,450
23	e480	e220	e86	e24	e6.0	e4.0	e300	5,910	13,900	25,100	6,830	4,060
24	e440	e220	e82	e22	e6.0	e4.0	e500	5,690	16,300	36,200	6,050	3,520
25	e410	e220	e78	e21	e6.0	e4.0	e800	5,280	15,100	26,400	5,760	3,000
26	e390	e210	e74	e20	e6.0	e4.0	e1,500	4,630	11,700	21,500	5,740	2,860
27	e360	e210	e74	e19	e5.0	e4.0	e3,000	4,340	10,100	16,500	5,850	2,920
28	e320	e210	e74	e18	e5.0	e4.0	e6,000	3,820	12,000	14,800	6,040	2,410
29	e300	e200	e72	e17	---	e4.0	12,500	3,240	20,700	11,400	6,340	2,000
30	e290	e200	e72	e16	---	e4.0	18,200	2,780	18,300	9,330	6,450	2,260
31	e290	---	e72	e15	---	e4.0	---	2,460	---	7,880	7,690	---
Total	36,125	7,800	3,954	1,280	234.0	139.0	43,381.0	208,350	282,530	487,440	245,820	245,320
Mean	1,165	260	128	41.3	8.36	4.48	1,446	6,721	9,418	15,720	7,930	8,177
Max	3,050	320	200	70	14	5.0	18,200	19,500	21,200	62,700	23,600	16,800
Min	290	200	72	15	5.0	4.0	4.0	2,460	1,990	3,460	4,570	2,000
Ac-ft	71,650	15,470	7,840	2,540	464	276	86,050	413,300	560,400	966,800	487,600	486,600
Cfsm	0.20	0.04	0.02	0.01	0.00	0.00	0.25	1.14	1.60	2.67	1.35	1.39
In.	0.23	0.05	0.03	0.01	0.00	0.00	0.27	1.32	1.79	3.08	1.56	1.55

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2010, BY WATER YEAR (WY) #

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,005	165	48.8	10.8	2.24	1.64	379	12,220	7,572	5,317	3,900	4,100
Max	1,808	325	128	41.3	9.07	8.00	1,446	19,200	16,910	15,720	7,930	9,536
(WY)	(2007)	(2006)	(2010)	(2010)	(2006)	(2006)	(2010)	(1982)	(1982)	(2010)	(2010)	(1979)
Min	260	3.97	0.32	0.00	0.00	0.00	1.00	6,721	3,989	1,804	903	941
(WY)	(1977)	(1976)	(1976)	(1976)	(1976)	(1976)	(1982)	(2010)	(1976)	(1976)	(1982)	(1976)

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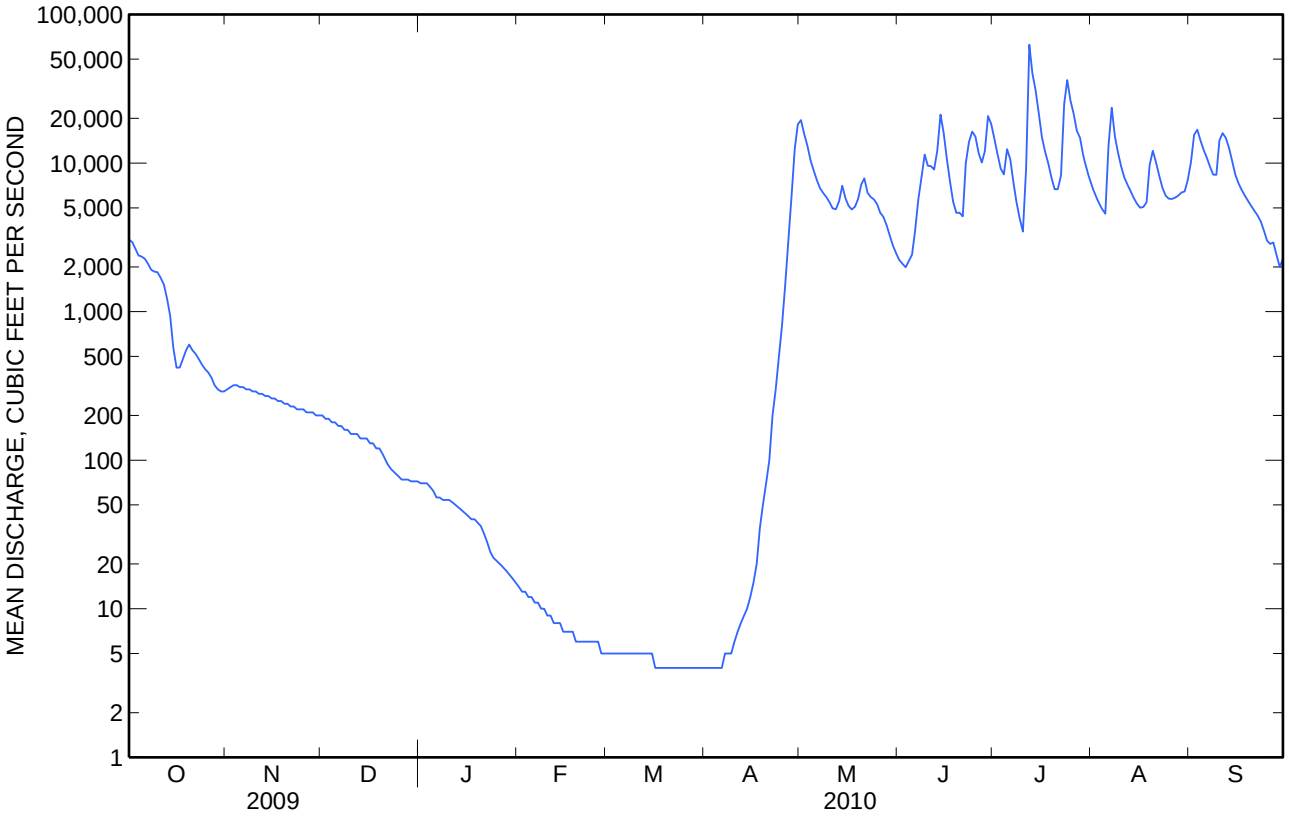
SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1976 - 2010#	
Annual total	955,341.0		1,562,373.0			
Annual mean	2,617		4,280		2,913	
Highest annual mean					4,280	2010
Lowest annual mean					1,611	1976
Highest daily mean	47,500	May 3	62,700	Jul 12	62,700	Jul 12, 2010
Lowest daily mean	4.0	Feb 28	4.0	Mar 16	0.00	Dec 11, 1975
Annual seven-day minimum	4.0	Feb 28	4.0	Mar 16	0.00	Dec 11, 1975
Maximum peak flow			75,100	Jul 12	75,100	Jul 12, 2010
Maximum peak stage			94.43	Jul 12	94.43	Jul 12, 2010
Annual runoff (ac-ft)	1,895,000		3,099,000		2,110,000	
Annual runoff (cfsm)	0.445		0.728		0.495	
Annual runoff (inches)	6.04		9.88		6.73	
10 percent exceeds	6,780		12,200		8,680	
50 percent exceeds	390		420		320	
90 percent exceeds	5.0		5.0		0.00	

See Period of Record; breaks in record.