15392000 BIRCH CREEK ABOVE TWELVEMILE CREEK NEAR MILLER HOUSE

LOCATION.--Lat $65^{\circ}23'33''$, Long $145^{\circ}42'45''$, in $NW^{1}_{/4}$, $SW^{1}_{/4}$, $NW^{1}_{/4}$ sec.33, T. 7 N., R. 10 E., Fairbanks Meridian (Circle B-4 quad), Yukon-Koyukuk Borough, Hydrologic Unit 19040402, on right bank one quarter mile upstream of the Bureau of Land Management Twelvemile wayside parking lot at mile 93.9 of the Steese Highway.

DRAINAGE AREA. -- 89.2 mi².

PERIOD OF RECORD. -- August 28, 2001 to current year (no winter records).

GAGE. -- Water-stage recorder. Elevation of gage is 1,950 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor and July 27-28, 2003 which are poor. GOES satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,100 ft^3/s , July 27, 2003, from rating curve extended above 280 ft^3/s on basis of slope-area measurement of peak flow, gage height, 48.14 ft. Minimum not determined, occurs during winter.

EXTREMES FOR WATER YEAR 2001. -- Maximum and minimum discharges not determined, occurred outside period of record.

EXTREMES FOR WATER YEAR 2002.--Maximum discharge, 1,460 ft³/s, June 11, gage height, 46.88 ft, minimum not determined occurs during winter.

EXTREMES FOR WATER YEAR 2003.—Maximum discharge, 2,100 $\mathrm{ft^3/s}$, July 27, from rating curve extended above 280 $\mathrm{ft^3/s}$ on basis of slope-area measurement of peak flow, gage height, 48.14 ft . Minimum not determined, occurs during winter.

EXTREMES FOR WATER YEAR 2004.--Maximum discharge, 810 $\mathrm{ft^3/s}$, May 30, gage height, 45.33 ft, minimum not determined occurs during winter.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001

DAILY MEAN VALUES												
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
DAI	001	140 0	DEC	UAIN	LED	PIPAN	AFK	PIAI	OON	001	AUG	SEF
1												94
2												88
3												85
4												81
5												90
6												90
7												87
8												83
9												81
10												78
10												70
11												75
12												73
13												70
14												65
15												62
												02
16												59
17												56
18												54
19												52
20												50
21												49
22												47
23												46
24												42
25												39
26												39
27												37
28											115	34
29											110	33
30											101	32
31											100	
moma r												1071
TOTAL												1871
MEAN												62.4
MAX												94
MIN												32
MED												60
AC-FT												3710
CFSM												0.70
IN.												0.78

15392000 BIRCH CREEK ABOVE TWELVEMILE CREEK NEAR MILLER HOUSE—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	33								122	27	75	110
2	33								174	30	65	116
3									157	232	55	105
4									134	331	48	102
5									136	203	42	104
6									128	235	36	133
7									114	212	34	244
8									113	145	36	204
9									102	104	43	177
10									145	83	54	153
10									143	83	24	133
11									1130	69	69	135
12									773	76	79	130
13									504	96	95	116
14									306	77	104	105
15									198	63	95	97
13									100	03	,,,	, ,
16								519	144	53	145	90
17								508	115	44	339	86
18								584	98	37	395	85
19								590	91	157	386	88
20								710	e85	254	274	89
20								710	600	234	2/4	09
21								750	e80	135	198	85
22								602	e91	111	218	79
23								499	e80	82	222	76
24								398	e60	67	272	73
25								343	45	63	265	74
26								319	54	109	192	74
27								214	48	140	164	84
28								129	40	239	156	87
29		±0.4						107	35	168	129	87
30								104	3.0	118	108	87
31								115		91	100	
31								113		21	100	
TOTAL									5332	3851	4493	3275
MEAN									178	124	145	109
MAX									1130	331	395	244
MIN									30	27	34	73
MED									113	104	104	94
MED AC-FT									10580	7640	8910	6500
CFSM									1.99	1.39	1.62	1.22
IN.									2.22	1.61	1.87	1.37

Estimated Result of discharge measurement

15392000 BIRCH CREEK ABOVE TWELVEMILE CREEK NEAR MILLER HOUSE—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003 DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	86							e135	248	39	365	636
2	83							e120	184	36	271	1050
3	79		±13					e110	173	37	244	750
4	75 75		+T2					e110 e100	162	35	304	554
5	64							e90	138	31	244	501
6	38							e100	270	38	198	434
7	75							e110	341	71	141	390
8	65							139	249	73	100	346
9	51							201	177	57	75	297
10	50							250	134	44	57	261
11	35							236	119	39	44	295
12	53							240	82	37	36	333
13	45							297	64	36	30	257
14	27							219	52	46	25	206
15	41							181	46	212	22	178
16	20							151	40	274	19	163
17	20							112	39	283	16	134
18								106	40	254	13	121
19								109	34	160	14	115
20								138	27	117	15	105
21								141	25	94	16	92
22								124	25	77	13	87
23								120	23	67	14	72
24								134	30	59	22	56
25								135	63	54	44	69
23								133	0.5	54	44	09
26								173	46	66	45	75
27								251	66	970	43	64
28								273	77	960	35	55
29								310	60	420	30	56
30								270	47	295	28	57
31								276		415	36	
TOTAL								5351	3081	5396	2559	7809
MEAN								173	103	174	82.5	260
MAX								310	341	970	365	1050
MIN								90	23	31	13	55
MED								139		51 67		
									64		36	170
AC-FT								10610	6110	10700	5080	15490
CFSM								1.94	1.15	1.95	0.93	2.92
IN.								2.23	1.28	2.25	1.07	3.26

e Estimated ‡ Result of discharge measurement

15392000 BIRCH CREEK ABOVE TWELVEMILE CREEK NEAR MILLER HOUSE—Continued

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

					DAIL	Y MEAN VA	ALUES					
DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55								431	14	122	23
2	50								293	14	140	26
3	49								255	15	98	24
4	47								184	23	76	23
5	43								152	20	65	23
5	43								132	20	03	23
6	42								122	23	57	22
7	39								97	19	50	21
8	37								82	17	44	21
9	38								75	16	40	20
10	38								60	17	38	19
11									49	15	36	19
12									40	13	34	18
13								528	35	13	32	18
14								566	46	13	31	18
15								635	73	13	30	16
16								641	57	17	28	15
17								573	45	17	27	15
18								488	37	15	27	13
19								384	34	16	26	e14
20								214	30	19	25	e15
20								214	30	19	23	ETO
21								168	26	52	25	e15
22								207	24	51	25	e15
23								253	22	92	25	e15
24								559	18	79	25	e15
25								562	18	81	24	e14
26			===					369	18	107	24	e14
27								270	17	80	23	e14
28								298	15	71	23	e15
29								357	14	73	23	‡15
30								625	14	77	22	e15
31								402		91	22	e12
31								402		91	21	
TOTAL									2383	1183	1286	531
MEAN									79.4	38.2	41.5	17.7
MAX									431	107	140	26
MIN									14	13	21	13
MED									42	19	28	16
AC-FT									4730	2350	2550	1050
CFSM									0.89	0.43	0.47	0.20
IN.									0.99	0.49	0.54	0.22

e Estimated