15320100 WADE CREEK TRIBUTARY NEAR CHICKEN

LOCATION.-- Lat 64°07'06", Long 141°33'13", in SE$^1/_4$ sec. 18, T. 27 N., R. 20 E. (Eagle A-2 quad), Hydrologic Unit 19040104, on left bank, 600 ft upstream from Taylor Highway, 0.4 mi upstream from the culvert at mi 86.1 Taylor Highway and 12 mi northeast of Chicken.

DRAINAGE AREA.--4.24 mi^2.

PERIOD OF RECORD.--Annual maximum, water year 1995. May 1996 to current year (no winter records).

GAGE.--Water-stage recorder. Elevation of gage is 1970 ft above sea level, from topographic map. Prior to June 19, 1997, recording gage was at a site 700 ft downstream at a different datum.

REMARKS.--Records fair, except for discharges below 0.1 ft^3/s and estimated daily discharges which are poor.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 236 ft^3/s, June 13, 1997, from rating curve extended above 14 ft^3/s on basis of slope-area measurement of peak flow, gage height, 22.7 ft, from floodmarks; no flow most days during the winter.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge undetermined, occurred during period of backwater from ice, May 12, gage height, 21.35 ft, no flow most days during the 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	---	---	---	---	---	---	---	e0.50	1.3	0.03	2.5	0.06
2	---	---	---	---	---	---	---	e0.70	1.0	0.03	3.4	0.06
3	---	---	---	---	---	---	---	e1.0	0.82	0.03	1.3	0.07
4	---	---	---	---	---	---	---	e2.0	0.64	0.02	0.67	0.16
5	---	---	---	---	---	---	---	e3.0	0.45	0.02	0.39	0.16
6	---	---	---	---	---	---	---	e6.0	0.32	0.02	0.27	0.15
7	---	---	---	---	---	---	---	e10	0.29	0.02	0.21	0.11
8	---	---	---	---	---	---	---	e8.0	0.45	0.02	0.17	0.10
9	---	---	---	---	---	---	---	e7.0	0.62	0.02	0.15	0.09
10	---	---	---	---	---	---	---	e7.8	0.83	0.02	0.13	0.09
11	---	---	---	---	---	---	---	e10	0.80	0.02	0.11	0.08
12	---	---	---	---	---	---	---	e19	0.53	0.02	0.11	0.07
13	---	---	---	---	---	---	---	18	0.34	0.02	0.10	0.07
14	---	---	---	---	---	---	---	15	0.32	0.02	0.10	0.08
15	---	---	---	---	---	---	---	13	0.57	0.02	0.09	0.07
16	---	---	---	---	---	---	---	10	0.47	0.02	0.08	e0.07
17	---	---	---	---	---	---	---	7.1	0.31	0.01	0.07	e0.06
18	---	---	---	---	---	---	---	5.2	0.22	0.01	0.07	e0.06
19	---	---	---	---	---	---	---	3.8	0.17	0.01	0.07	e0.06
20	---	---	---	---	---	---	---	2.7	0.13	0.01	0.07	e0.06
21	---	---	---	---	---	---	---	1.7	0.11	0.01	0.06	e0.05
22	---	---	---	---	---	---	---	1.3	0.10	0.03	0.06	e0.05
23	---	---	---	---	---	---	---	1.3	0.08	0.15	0.06	e0.05
24	---	---	---	---	---	---	---	1.5	0.08	0.11	0.05	e0.05
25	---	---	---	---	---	---	---	9.4	0.07	0.08	0.05	e0.05
26	---	---	---	---	---	---	---	13	0.06	0.08	0.05	e0.05
27	---	---	---	---	---	---	---	5.8	0.05	0.07	0.05	e0.10
28	---	---	---	---	---	---	---	3.8	0.05	0.07	0.06	e0.07
29	---	---	---	---	---	---	---	5.0	0.04	0.10	0.06	e0.06
30	---	---	---	---	---	---	---	2.9	0.04	0.20	0.06	e0.05
31	---	---	---	---	---	---	---	2.0	---	0.19	0.06	---
TOTAL	---	---	---	---	---	---	---	197.50	11.26	1.48	10.68	2.31
MEAN	---	---	---	---	---	---	---	6.37	0.38	0.05	0.34	0.08
MAX	---	---	---	---	---	---	---	19	1.3	0.20	3.4	0.16
MIN	---	---	---	---	---	---	---	0.50	0.04	0.01	0.05	0.05
AC-FT	---	---	---	---	---	---	---	392	22	2.9	21	4.6
CFSM	---	---	---	---	---	---	---	1.50	0.09	0.01	0.08	0.02
IN.	---	---	---	---	---	---	---	1.73	0.10	0.01	0.09	0.02

e Estimated

15356000 YUKON RIVER AT EAGLE
(International Gaging Station)

LOCATION.--Lat 64°47'22", long 141°11'52", in NW$^1/_4$ sec. 31, T. 1 S., R. 33 E. (Eagle D-1 quad), Hydrologic Unit 19040401, on left bank at Eagle, 0.1 mi upstream from Mission Creek, 1.1 mi downstream from Castalia Creek, and 11 mi downstream from the international boundary.

DRAINAGE AREA.--113,500 mi^2, approximately.

PERIOD OF RECORD.--January 1911 to December 1913, June 1950 to current year. Monthly discharge only for some periods, published in WSP 1372.

GAGE.--Water-stage recorder. Elevation of gage is 850 ft above sea level, from topographic map. See WSP 1936 for history of changes prior to October 1, 1963. Nonrecording gage prior to June 26, 1982 at same site and datum.

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

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	76400	63000	e30000	e23000	e21000	e20000	e19000	e35000	278000	183000	144000	94700
2	76300	e60000	e30000	e23000	e21000	e20000	e19000	e39000	270000	179000	139000	92100
3	76500	e56000	e30000	e23000	e21000	e20000	e19000	e45000	268000	171000	139000	90400
4	77500	e54000	e29000	e23000	e21000	e20000	e19000	e53000	269000	166000	139000	89500
5	78600	e52000	e29000	e23000	e21000	e20000	e19000	e63000	263000	163000	137000	89700
6	79700	e50000	e29000	e23000	e21000	e20000	e19000	e74000	255000	162000	128000	89800
7	81500	e49000	e28000	e23000	e21000	e20000	e19000	e94000	245000	162000	123000	88400
8	82200	e48000	e28000	e22000	e20500	e20000	e19000	e110000	236000	157000	121000	87300
9	82400	e46000	e28000	e22000	e20500	e20000	e19000	e120000	235000	152000	120000	85300
10	82500	e45000	e28000	e22000	e20500	e19500	e19000	e130000	246000	146000	121000	83400
11	82600	e44000	e27000	e22000	e20500	e19500	e19000	e130000	265000	140000	122000	82000
12	82600	e43000	e27000	e22000	e20500	e19500	e19000	e110000	282000	141000	123000	81100
13	82200	e42000	e27000	e22000	e20500	e19500	e19000	e110000	280000	142000	123000	80400
14	82100	e41000	e27000	e22000	e20500	e19500	e19000	e120000	265000	135000	121000	79500
15	81500	e40000	e26000	e22000	e20500	e19500	e19000	e130000	244000	132000	117000	78700
16	79300	e39000	e26000	e22000	e20500	e19500	e19000	e130000	229000	133000	113000	78100
17	76800	e38000	e26000	e22000	e20500	e19500	e19000	e140000	218000	135000	114000	77800
18	73700	e37000	e26000	e22000	e20500	e19500	e19000	e150000	212000	135000	116000	77200
19	71500	e37000	e25000	e21000	e20500	e19500	e19000	e160000	208000	133000	116000	76700
20	70600	e36000	e25000	e21000	e20500	e19500	e19000	173000	204000	134000	117000	75900
21	68100	e35000	e25000	e21000	e20500	e19000	e19000	181000	201000	134000	119000	75100
22	65100	e35000	e25000	e21000	e20500	e19000	e19000	190000	202000	135000	120000	75100
23	69000	e34000	e25000	e21000	e20500	e19000	e19000	193000	207000	134000	119000	75900
24	70500	e34000	e24000	e21000	e20500	e19000	e20000	198000	210000	137000	117000	76900
25	68600	e33000	e24000	e21000	e20000	e19000	e21000	204000	211000	137000	114000	76400
26	67200	e33000	e24000	e21000	e20000	e19000	e22000	220000	208000	134000	111000	76500
27	67100	e32000	e24000	e21000	e20000	e19000	e23000	237000	203000	130000	110000	76000
28	66200	e32000	e24000	e21000	e20000	e19000	e25000	242000	196000	125000	107000	75600
29	64200	e31000	e24000	e21000	e20000	e19000	e27000	255000	192000	124000	99900	75100
30	62600	e31000	e23000	e21000	---	e19000	e31000	266000	187000	132000	96400	75700
31	64700	---	e23000	e21000	---	e19000	---	273000	---	142000	95900	---
TOTAL	2309800	1250000	816000	676000	595500	603500	606000	4575000	6989000	4465000	3702200	2436300
MEAN	74510	41670	26320	21810	20530	19470	20200	147600	233000	144000	119400	81210
MAX	82600	63000	30000	23000	21000	20000	31000	273000	282000	183000	144000	94700
MIN	62600	31000	23000	21000	20000	19000	19000	35000	187000	124000	95900	75100
AC-FT	4581000	2479000	1619000	1341000	1181000	1197000	1202000	9075000	13860000	8856000	7343000	4832000
CFSM	0.66	0.37	0.23	0.19	0.18	0.17	0.18	1.30	2.05	1.27	1.05	0.72
IN.	0.76	0.41	0.27	0.22	0.20	0.20	0.20	1.50	2.29	1.46	1.21	0.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2004, BY WATER YEAR (WY)#

MEAN	74690	38420	25820	21150	18880	17290	19310	125000	223000	181200	143800	112100
MAX	133300	62500	38870	30390	28000	25480	41530	201500	456800	269500	200400	187900
(WY)	2001	1953	2001	2001	1977	1977	1990	1993	1964	1992	2000	2000
MIN	45870	24000	13000	9000	7200	7800	8650	61770	120900	108900	88710	70690
(WY)	1959	1959	1951	1951	1951	1956	1956	1964	1953	1998	1998	1998

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1950 - 2004#	
ANNUAL TOTAL	26171100		29024300			
ANNUAL MEAN	71700		79300		83960	
HIGHEST ANNUAL MEAN					110900	1964
LOWEST ANNUAL MEAN					61020	1958
HIGHEST DAILY MEAN	194000	Jun 13	282000	Jun 12	545000	Jun 12 1964
LOWEST DAILY MEAN	a18000	Apr 1	b19000	Mar 21	c7200	Feb 1 1951
ANNUAL SEVEN-DAY MINIMUM	18000	Apr 1	19000	Mar 21	7200	Feb 1 1951
MAXIMUM PEAK FLOW			288000	Jun 12	545000	Jun 12 1964
MAXIMUM PEAK STAGE			23.45	Jun 12	33.85	Jun 12 1964
ANNUAL RUNOFF (AC-FT)	51910000		57570000		60830000	
ANNUAL RUNOFF (CFSM)	0.632		0.699		0.740	
ANNUAL RUNOFF (INCHES)	8.58		9.51		10.05	
10 PERCENT EXCEEDS	152000		194000		197000	
50 PERCENT EXCEEDS	63000		55000		45000	
90 PERCENT EXCEEDS	19600		19500		16000	

\# See Period of Record; partial years used in monthly statistics
a From Apr. 1 - 22
b From Mar. 21 - Apr. 23
c Feb. 1-28, 1951
e Estimated

15356000 YUKON RIVER AT EAGLE—Continued
(International Gaging Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-57, 1962-70, 1974-76, 1978-79 and 2001 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED SEDIMENT: 1962 to 1966

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sample location, cross section ft from rt bank (72103)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
APR								
13...	1100	385.0	245	7.7	.0	758	10.2	70
13...	1110	560.0	244	7.7	.0	758	10.3	71
13...	1120	690.0	243	7.8	.0	758	10.2	70
13...	1130	865.0	237	7.7	.0	758	10.2	70
13...	1140	970.0	244	7.7	.0	758	10.1	70
JUN								
17...	1000	409.0	205	8.0	15.0	--	10.1	--
17...	1002	622.0	206	8.0	15.0	--	9.7	--
17...	1004	783.0	205	7.9	15.0	--	9.8	--
17...	1006	963.0	205	7.9	15.0	--	9.6	--
17...	1008	1190	205	7.9	15.0	--	10.0	--
30...	1545	385.0	188	8.2	17.9	743	9.2	99
30...	1550	585.0	187	8.2	17.9	743	9.2	99
30...	1555	755.0	187	8.2	17.9	743	9.2	99
30...	1600	925.0	186	8.2	17.9	743	9.2	100
30...	1605	1145	191	8.2	17.9	743	9.2	99
JUL								
20...	1430	314.0	212	8.0	16.1	737	9.6	101
20...	1435	504.0	210	8.0	16.2	737	9.8	103
20...	1440	684.0	210	8.0	16.2	737	9.7	102
20...	1445	834.0	210	8.0	16.2	737	9.8	103
20...	1450	1064	200	8.0	16.2	737	9.8	103
AUG								
19...	1404	360.0	213	8.0	15.7	--	--	--
19...	1414	530.0	210	8.0	15.9	--	--	--
19...	1424	690.0	207	8.0	15.9	--	--	--
19...	1434	850.0	211	8.0	15.9	--	--	--
19...	1444	1040	211	8.0	16.0	--	--	--
SEP								
06...	1020	--	225	7.9	9.3	--	--	--
06...	1025	--	223	7.7	9.3	--	--	--
06...	1030	--	224	7.8	9.3	--	--	--
06...	1035	--	225	7.8	9.3	--	--	--
06...	1040	--	226	7.7	9.2	--	--	--

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)
APR													
13...	1230	9	9	1110	--	19400	20	3055	10	240	7.7	--	.0
MAY													
26...	1300	9	9	1500	--	--	20	3055	1	--	7.0	--	10.0
JUN													
17...	1030	9	9	1600	--	205000	20	3055	1	206	7.9	--	15.0
30...	1620	9	9	--	18.83	--	20	3055	1	188	8.2	27.2	17.9
JUL													
20...	1500	9	9	1370	--	125000	20	3055	1	208	8.0	--	16.2
AUG													
19...	1510	9	9	1320	13.14	116000	20	3055	30	210	8.0	--	15.9
SEP													
06...	1100	9	9	--	10.83	84500	20	3055	10	225	7.8	6.8	9.3

15356000 YUKON RIVER AT EAGLE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, field, mg/L as CaCO3 (00410)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
APR													
13...	--	.0307	.0213	758	11.1	77	130	35.4	9.84	3.05	--	1.1	116
MAY													
26...	157	.4488	.3551	--	--	--	87	24.1	6.42	1.75	56	.95	73
JUN													
17...	99	.1279	.0948	--	9.9	--	100	28.5	7.92	2.11	--	.99	81
30...	925	.0487	.0355	743	9.2	99	100	28.1	7.20	2.67	--	1.7	89
JUL													
20...	1020	.0343	.0242	737	9.8	103	110	30.9	7.71	3.13	--	1.8	95
AUG													
19...	840	.0344	.0249	737	67.4	704	110	29.9	7.57	2.94	--	1.7	85
SEP													
06...	63	.0556	.0403	--	--	--	110	31.5	8.20	3.20	--	1.5	91

Date	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Alkalinity, wat flt fxd end field, mg/L as CaCO3 (39036)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
APR													
13...	.0	95	100	31.3	.75	<.17	6.88	154	146	<.002	.088	<.010	E.06
MAY													
26...	.0	56	68	22.2	.6	<.17	5.13	112	98	.002	.031	E.005	.7
JUN													
17...	.0	67	67	29.9	.45	<.17	6.30	118	116	<.002	.034	<.010	.3
30...	.0	73	69	30.9	.78	<.17	5.60	131	121	<.002	.031	<.010	.6
JUL													
20...	.0	78	78	30.7	1.06	<.17	5.78	132	128	E.001	.027	<.010	.5
AUG													
19...	.0	71	70	37.6	1.09	<.17	5.33	109	128	E.001	.022	<.010	.4
SEP													
06...	.0	74	74	34.9	.92	.18	5.87	137	131	E.001	.028	E.008	.2

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)
APR													
13...	E.06	.004	<.004	<.006	2.3	E.1	.4	51.1	<.06	8	E.02	<.8	.094
MAY													
26...	.3	.635	.008	<.006	38.8	E.2	.5	35.9	<.06	8	.05	<.8	.134
JUN													
17...	E.07	.322	<.04	<.006	25.5	E.2	.6	43.8	<.06	E8	E.02	1.0	.106
30...	E.05	1.53	E.002	<.006	26.8	.3	.6	37.2	<.06	12	<.04	<.8	.137
JUL													
20...	<.1	1.17	<.004	E.003	21.7	.3	.6	40.7	<.06	16	<.04	<.8	.129
AUG													
19...	E.07	E.81	<.004	<.006	21.3	.3	.5	39.9	<.06	14	<.04	<.8	.108
SEP													
06...	E.10	.26	<.004	<.006	14.8	E.2	.6	40.1	<.06	24	<.04	<.8	.100

15356000 YUKON RIVER AT EAGLE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Mangan-ese, water, fltrd, ug/L (01056)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront-ium, water, fltrd, ug/L (01080)	Vanad-ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
APR													
13...	.8	E3.2	<.08	2.3	1.5	1.3	1.13	.6	<.20	164	.36	1.6	1.12
MAY													
26...	3.8	93.1	E.07	2.0	7.0	.8	2.88	<.4	<.20	97.1	.55	1.6	.65
JUN													
17...	1.7	17.8	<.08	2.3	1.9	1.0	1.52	.5	<.20	112	.57	.7	.83
30...	1.3	E3.5	E.06	3.2	.6	1.6	1.07	E.4	<.20	117	.60	E.5	.90
JUL													
20...	1.0	<6.4	<.08	3.2	.7	1.8	1.52	.5	<.20	145	.63	<.6	.96
AUG													
19...	1.1	<6.4	<.08	3.1	.7	1.7	.91	.5	<.20	141	.62	E.5	.87
SEP													
06...	1.4	E4.3	<.08	3.2	2.7	1.6	1.27	.6	<.20	147	.40	1.2	1.04

Date	Organic carbon, water, fltrd, mg/L (00681)	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Total carbon, suspnd sedimnt total, mg/L (00694)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)
APR								
13...	1.5	<.12	<.12	<.12	<.022	2	105	74
MAY								
26...	8.6	3.10	5.32	8.42	.424	593	--	61
JUN								
17...	4.7	1.21	2.87	4.08	.154	383	212000	53
30...	2.1	E23.0	E9.62	E32.6	E.434	1490	--	88
JUL								
20...	1.7	17.9	4.82	22.7	.282	1490	502000	89
AUG								
19...	.9	7.03	4.91	11.9	.174	1260	395000	90
SEP								
06...	2.1	3.38	3.20	6.58	.134	--	--	--

15388960 PORCUPINE RIVER NEAR INTERNATIONAL BOUNDARY
(International Gaging Station)

LOCATION.--Lat 67°25'27", long 140°53'28", 3.1 mi upstream from old townsite of Ramparts House, at Alaska-Yukon Territory Boundary.

DRAINAGE AREA.--23,100 mi^2, approximately.

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 600 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Differences between data published herein and corresponding data in the reports of the Water Survey of Canada are due to variations in automated program techniques. After December 1978, data published in reports of the Water Survey of Canada are in International System (SI) units, and have been converted to inch-pound units for this report. Formerly the data reported in the USGS Water-Data Report were one year prior to those reported for U.S. gages because the Water Survey of Canada discharge records for the calendar year were not received until the following year. Starting with the 2003 water year, periods of record for this station will be current with U.S. gage reports.

COOPERATION.--Discharge records furnished by the Water Survey of Canada.

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	6650	e3520	e2000	e1370	e982	e823	e773	e946	62100	5510	4980	4450
2	6550	e3480	e1970	e1370	e975	e823	e773	e1020	61300	5300	4940	4310
3	6400	e3430	e1910	e1360	e960	e819	e773	e1080	59600	5050	8120	4170
4	6270	e3340	e1890	e1350	e939	e816	e770	e1150	57700	4770	23300	4100
5	6200	e3300	e1870	e1330	e922	e816	e770	e1250	50500	4520	23000	4030
6	7110	e3250	e1860	e1320	e918	e816	e770	e1350	44600	4310	19900	4240
7	9000	e3180	e1830	e1300	e915	e812	e766	e1490	45600	4170	19000	4560
8	10100	e3140	e1810	e1290	e911	e812	e766	e1570	45300	3920	18100	4840
9	9790	e3100	e1780	e1260	e907	e812	e766	e1640	40500	3810	15200	4910
10	8870	e3040	e1760	e1250	e904	e812	e766	e1790	34100	3710	12400	4980
11	8040	e2940	e1730	e1230	e897	e812	e763	e1960	29000	3670	10500	4870
12	7490	e2880	e1690	e1210	e893	e812	e766	e2310	24400	3600	9070	4730
13	7000	e2820	e1680	e1200	e886	e809	e766	e2800	20300	3640	8020	4520
14	6550	e2720	e1660	e1190	e883	e805	e766	e3270	17000	3850	7240	4380
15	7390	e2650	e1650	e1180	e879	e805	e770	e4100	14500	3850	6600	4270
16	6460	e2620	e1600	e1150	e872	e805	e770	e5330	13100	3780	6290	4100
17	4470	e2580	e1600	e1150	e872	e805	e770	12900	12500	3710	6140	3950
18	e3950	e2540	e1580	e1140	e865	e805	e770	20800	11700	3640	6110	3810
19	e3450	e2490	e1550	e1130	e862	e805	e770	91500	11000	3570	5970	3570
20	e3340	e2440	e1530	e1120	e858	e805	e773	194000	10100	3470	5830	3410
21	e3420	e2400	e1510	e1110	e855	e802	e773	188000	9780	3370	5580	3310
22	e3600	e2370	e1500	e1100	e851	e798	e777	165000	9680	3460	5440	3210
23	e3990	e2340	e1480	e1090	e847	e791	e780	121000	9180	3570	5160	3090
24	e4130	e2300	e1450	e1080	e844	e784	e784	93800	8400	3470	4940	3150
25	e3990	e2260	e1450	e1060	e840	e777	e791	89600	7770	3390	4840	3160
26	e3950	e2210	e1430	e1050	e837	e777	e798	98500	7380	3530	4770	2870
27	e3880	e2150	e1430	e1030	e833	e777	e805	105000	6850	4270	4730	3000
28	e3810	e2130	e1420	e1030	e833	e777	e830	109000	6500	5860	4730	3000
29	e3710	e2090	e1400	e1010	e830	e777	e855	102000	6180	5970	4660	3530
30	e3670	e2040	e1390	e1010	---	e777	e879	80800	5830	5720	4560	3430
31	e3600	---	e1370	e999	---	e777	---	66500	---	5330	4560	---
TOTAL	176830	81750	50780	36469	25670	24843	23449	1571456	742450	129790	274680	117950
MEAN	5704	2725	1638	1176	885	801	782	50690	24750	4187	8861	3932
MAX	10100	3520	2000	1370	982	823	879	194000	62100	5970	23300	4980
MIN	3340	2040	1370	999	830	777	763	946	5830	3370	4560	2870
AC-FT	350700	162200	100700	72340	50920	49280	46510	3117000	1473000	257400	544800	234000
CFSM	0.25	0.12	0.07	0.05	0.04	0.03	0.03	2.19	1.07	0.18	0.38	0.17
IN.	0.28	0.13	0.08	0.06	0.04	0.04	0.04	2.53	1.20	0.21	0.44	0.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2004, BY WATER YEAR (WY)

MEAN	4662	1896	1145	844	697	657	766	33790	42000	15120	19240	15990
MAX	8241	3161	1638	1176	966	870	1711	63160	86470	29580	37940	34320
(WY)	1996	1999	2004	2004	2001	2001	1998	1990	1992	1994	1991	1995
MIN	2571	1122	870	551	398	383	562	1369	20410	4187	8861	3932
(WY)	2000	1997	2000	1997	1997	1997	1997	2001	1999	2004	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1988 - 2004	
ANNUAL TOTAL	3823052		3256117			
ANNUAL MEAN	10470		8896		11440	
HIGHEST ANNUAL MEAN					16090	1995
LOWEST ANNUAL MEAN					6569	1999
HIGHEST DAILY MEAN	78700	Jun 1	194000	May 20	248000	Jun 1 1992
LOWEST DAILY MEAN	a618	Mar 9	763	Apr 11	b367	Mar 3 1997
ANNUAL SEVEN-DAY MINIMUM	620	Mar 5	766	Apr 7	369	Mar 1 1997
MAXIMUM PEAK FLOW			214000	May 20	250000	Jun 1 1992
MAXIMUM PEAK STAGE			48.35	May 20	50.76	Jun 1 1992
ANNUAL RUNOFF (AC-FT)	7583000		6459000		8287000	
ANNUAL RUNOFF (CFSM)	0.453		0.385		0.495	
ANNUAL RUNOFF (INCHES)	6.16		5.24		6.73	
10 PERCENT EXCEEDS	30500		13000		32900	
50 PERCENT EXCEEDS	2940		2840		2010	
90 PERCENT EXCEEDS	652		801		646	

a From Mar 9 to 10
b From Mar 3 to 6
e Estimated

15392000 BIRCH CREEK ABOVE TWELVEMILE CREEK NEAR MILLER HOUSE

LOCATION.--Lat 65°23'33", Long 145°42'45", in NW¼, SW¼, NW¼ 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 mi^2.

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 ft^3/s, June 11, gage height, 46.88 ft, minimum not determined occurs during winter.

EXTREMES FOR WATER YEAR 2003.--Maximum discharge, 2,100 ft^3/s, July 27, 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 2004.--Maximum discharge, 810 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
1	---	---	---	---	---	---	---	---	---	---	---	94
2	---	---	---	---	---	---	---	---	---	---	---	88
3	---	---	---	---	---	---	---	---	---	---	---	85
4	---	---	---	---	---	---	---	---	---	---	---	81
5	---	---	---	---	---	---	---	---	---	---	---	90
6	---	---	---	---	---	---	---	---	---	---	---	90
7	---	---	---	---	---	---	---	---	---	---	---	87
8	---	---	---	---	---	---	---	---	---	---	---	83
9	---	---	---	---	---	---	---	---	---	---	---	81
10	---	---	---	---	---	---	---	---	---	---	---	78
11	---	---	---	---	---	---	---	---	---	---	---	75
12	---	---	---	---	---	---	---	---	---	---	---	73
13	---	---	---	---	---	---	---	---	---	---	---	70
14	---	---	---	---	---	---	---	---	---	---	---	65
15	---	---	---	---	---	---	---	---	---	---	---	62
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	---
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
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
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
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	30	118	108	87
31	---	---	---	---	---	---	---	115	---	91	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
AC-FT	---	---	---	---	---	---	---	---	10580	7640	8910	6500
CFSM	---	---	---	---	---	---	---	---	1.99	1.39	1.62	1.22
IN.	---	---	---	---	---	---	---	---	2.22	1.61	1.87	1.37

e 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	---	---	---	---	---	---	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
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	64	67	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

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
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
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	e15
28	---	---	---	---	---	---	---	298	15	71	23	e15
29	---	---	---	---	---	---	---	357	14	73	23	‡15
30	---	---	---	---	---	---	---	625	14	77	22	e15
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

15453500 YUKON RIVER NEAR STEVENS VILLAGE

LOCATION.--Lat 65°52′32″, long 149°43′04″, in SE$^1/_4$ SW$^1/_4$ sec. 7, T. 12 N., R. 10 W. (Livengood D-6 quad), Hydrologic Unit 19040404, on right bank, 115 ft upstream from bridge at MP 56.0 on Dalton Highway, 0.5 mi downstream from Woodcamp Creek, 2.5 mi upstream from Ray River, and 21 mi southwest of Stevens Village.

DRAINAGE AREA.--196,300 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1976 to current year.

GAGE.--Water-stage recorder and supplementary water-stage recorder on bridge pier at same site and datum. Datum of gage is 240.68 ft above sea level (revised).

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge observed, 950,000 ft^3/s, June 15-16, 1964, "at Rampart" (station 15468000), drainage area, 199,400 mi^2, approximately.

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	107000	84000	e40000	e31000	e27000	e23000	e21000	e24000	435000	219000	150000	123000
2	105000	82100	e40000	e31000	e27000	e23000	e21000	e26000	439000	213000	151000	118000
3	103000	81100	e39000	e31000	e27000	e23000	e21000	e30000	437000	208000	157000	114000
4	101000	79000	e39000	e31000	e27000	e23000	e21000	e35000	428000	203000	165000	112000
5	99800	78800	e38000	e31000	e27000	e23000	e21000	e40000	421000	198000	172000	111000
6	99000	77700	e38000	e30000	e27000	e23000	e21000	e50000	416000	193000	174000	109000
7	98400	73100	e37000	e30000	e27000	e23000	e21000	e80000	409000	187000	173000	107000
8	98900	69000	e37000	e30000	e26000	e22000	e21000	e130000	403000	182000	172000	105000
9	99900	65000	e36000	e30000	e26000	e22000	e21000	e190000	390000	178000	175000	104000
10	101000	e63000	e36000	e30000	e26000	e22000	e21000	e230000	372000	176000	172000	104000
11	102000	e61000	e35000	e30000	e26000	e22000	e21000	e260000	353000	174000	166000	102000
12	104000	e60000	e35000	e30000	e26000	e22000	e21000	e280000	336000	171000	160000	101000
13	105000	e58000	e35000	e30000	e26000	e22000	e21000	307000	324000	166000	155000	101000
14	105000	e56000	e34000	e29000	e26000	e22000	e21000	313000	320000	162000	152000	e99000
15	104000	e54000	e34000	e29000	e26000	e22000	e21000	301000	322000	158000	149000	e97000
16	103000	e53000	e34000	e29000	e25000	e22000	e21000	270000	324000	156000	147000	e95000
17	102000	e52000	e34000	e29000	e25000	e21000	e21000	264000	316000	155000	145000	e93500
18	99500	e51000	e33000	e29000	e25000	e21000	e21000	271000	301000	151000	142000	e92000
19	96000	e49000	e33000	e29000	e25000	e21000	e21000	288000	284000	147000	138000	e91000
20	92200	e48000	e33000	e29000	e25000	e21000	e21000	308000	268000	146000	135000	e90000
21	87400	e47000	e33000	e28000	e25000	e21000	e21000	331000	256000	147000	133000	88700
22	83500	e46000	e33000	e28000	e24000	e21000	e21000	374000	247000	148000	132000	87900
23	82400	e45000	e32000	e28000	e24000	e21000	e21000	415000	240000	148000	132000	87400
24	81200	e44000	e32000	e28000	e24000	e21000	e21000	442000	233000	150000	133000	86700
25	82100	e44000	e32000	e28000	e24000	e21000	e21000	459000	228000	153000	133000	86200
26	81800	e43000	e32000	e28000	e24000	e21000	e21000	466000	225000	156000	133000	85900
27	80000	e42000	e32000	e28000	e24000	e21000	e21000	457000	226000	157000	132000	85800
28	80400	e42000	e32000	e28000	e24000	e21000	e22000	440000	227000	158000	130000	85800
29	82100	e41000	e32000	e28000	e23000	e21000	e22000	437000	227000	157000	128000	85700
30	85100	e41000	e31000	e28000	---	e21000	e23000	440000	224000	156000	126000	85500
31	84900	---	e31000	e27000	---	e21000	---	437000	---	153000	125000	---
TOTAL	2936600	1729800	1072000	905000	738000	674000	634000	8395000	9631000	5226000	4587000	2934100
MEAN	94730	57660	34580	29190	25450	21740	21130	270800	321000	168600	148000	97800
MAX	107000	84000	40000	31000	27000	23000	23000	466000	439000	219000	175000	123000
MIN	80000	41000	31000	27000	23000	21000	21000	24000	224000	146000	125000	85500
AC-FT	5825000	3431000	2126000	1795000	1464000	1337000	1258000	16650000	19100000	10370000	9098000	5820000
CFSM	0.48	0.29	0.18	0.15	0.13	0.11	0.11	1.38	1.64	0.86	0.75	0.50
IN.	0.56	0.33	0.20	0.17	0.14	0.13	0.12	1.59	1.83	0.99	0.87	0.56

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2004, BY WATER YEAR (WY)#

MEAN	99850	51680	36720	29940	25530	22540	22230	208000	335500	229000	197800	163100
MAX	164500	70300	48450	37680	32140	28970	28170	373000	614100	320200	255100	229500
(WY)	2001	2003	1983	1977	1981	1981	1981	1991	1992	1992	2000	2000
MIN	75340	34530	26770	23550	19320	16000	14800	90680	226800	168600	142400	97800
(WY)	1993	1990	1990	1996	1999	1999	1997	1992	1995	2004	1989	2004

e Estimated

15453500 YUKON RIVER NEAR STEVENS VILLAGE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1977 - 2004#	
ANNUAL TOTAL	39620400		39462500			
ANNUAL MEAN	108500		107800		118900	
HIGHEST ANNUAL MEAN					144400	1992
LOWEST ANNUAL MEAN					93910	1996
HIGHEST DAILY MEAN	309000	Jun 11	466000	May 26	823000	Jun 11 1992
LOWEST DAILY MEAN	a26000	Feb 25	b21000	Mar 17	c14000	Apr 14 1997
ANNUAL SEVEN-DAY MINIMUM	26000	Feb 25	21000	Mar 17	14000	Apr 14 1997
MAXIMUM PEAK FLOW			467000	May 26	827000	Jun 11 1992
MAXIMUM PEAK STAGE			46.66	May 26	59.60	Jun 11 1992
ANNUAL RUNOFF (AC-FT)	78590000		78270000		86160000	
ANNUAL RUNOFF (CFSM)	0.553		0.549		0.606	
ANNUAL RUNOFF (INCHES)	7.51		7.48		8.23	
10 PERCENT EXCEEDS	227000		274000		276000	
50 PERCENT EXCEEDS	79000		78200		58000	
90 PERCENT EXCEEDS	26000		21000		22000	

a From Feb. 25 to Apr. 25
b From Mar. 17 to Apr. 27
c From Apr. 14 to 25

15453500 YUKON RIVER NEAR STEVENS VILLAGE—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-72, 1978, and 2001 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sample location, cross section ft from rt bank (72103)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
APR								
01...	1620	220.0	284	7.7	.0	775	8.1	55
01...	1640	375.0	283	7.7	.0	775	8.2	55
01...	1700	600.0	284	7.7	.0	775	8.2	55
01...	1720	750.0	284	7.7	.0	775	8.2	55
01...	1740	825.0	284	7.7	.0	775	8.2	55
01...	1800	1050	284	7.7	.0	775	8.2	55
JUN								
04...	1508	350.0	164	8.1	13.7	753	9.6	94
04...	1510	768.0	165	8.1	13.7	753	9.5	93
04...	1512	1059	165	8.0	13.7	753	9.5	93
04...	1514	1385	165	8.1	13.7	753	9.5	93
04...	1516	1775	165	8.1	13.7	753	9.5	93
09...	1400	347.0	168	7.9	15.2	756	8.8	89
09...	1405	734.0	168	8.0	15.2	753	8.6	87
09...	1410	1057	166	8.0	15.3	753	8.8	89
09...	1415	1373	166	8.0	15.3	753	8.6	87
09...	1420	1744	168	8.0	15.3	753	8.7	88
23...	1200	377.0	206	7.8	20.1	756	9.1	101
23...	1210	750.0	206	8.0	20.1	756	9.2	102
23...	1220	1052	206	8.0	20.2	756	9.2	102
23...	1230	1345	205	8.0	20.3	756	9.2	103
23...	1240	1675	205	8.0	20.3	756	9.2	103
JUL								
13...	1420	300.0	231	7.9	17.6	759	9.3	98
13...	1425	680.0	229	7.9	17.6	759	9.4	99
13...	1430	1000	--	7.9	17.6	759	9.4	--
13...	1435	1300	229	7.9	17.6	759	9.4	99
13...	1440	1680	229	7.9	17.6	759	9.5	100
AUG								
17...	1600	365.0	230	8.0	17.6	761	--	--
17...	1610	746.0	230	8.0	17.5	761	--	--
17...	1620	1038	230	8.0	17.5	761	--	--
17...	1630	1310	230	7.9	17.5	761	--	--
17...	1640	1617	230	--	17.5	761	--	--
SEP								
10...	1500	480.0	244	7.9	8.0	759	11.2	95
10...	1505	805.0	244	8.0	8.1	759	11.1	94
10...	1510	1075	244	8.0	8.1	759	11.1	94
10...	1515	1310	244	8.0	8.2	759	11.1	94
10...	1520	1620	244	8.0	8.1	759	11.1	94

Date	Time	Medium code	Sample type	Ice thick-ness, feet (82130)	Stream width, feet (00004)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)
APR													
01...	1900	9	9	2.50	1900	--	20600	20	3039	1	284	7.7	-18.0
JUN													
04...	1520	9	9	--	2230	--	424000	20	3055	30	165	8.1	18.0
09...	1430	9	9	--	1980	--	394000	20	3055	1	167	8.0	--
23...	1300	9	7	--	--	36.70	265000	20	3055	30	206	7.9	24.0
JUL													
13...	1450	9	9	--	--	--	189000	20	3055	1	229	7.9	--
AUG													
17...	1650	9	9	--	1980	28.45	151000	20	3055	1	230	7.9	22.5
SEP													
10...	1530	9	9	--	--	--	--	20	3055	1	244	8.0	--

Date	Temper-ature, water, deg C (00010)	Turbid-ity, wat unf lab, Hach 2100AN NTU (99872)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)
APR													
01...	.0	3	.0363	.0260	775	8.2	55	160	45.3	11.0	3.39	1.2	132
JUN													
04...	13.7	221	.3672	.2760	759	9.5	92	85	25.5	5.22	1.59	.98	74
09...	15.3	153	.2764	.2063	756	8.7	87	86	25.1	5.54	1.62	.92	74
23...	20.0	122	.1358	.0992	756	9.2	102	110	30.2	7.19	2.08	1.0	88
JUL													
13...	17.6	496	.0574	.0411	759	9.4	99	110	30.2	7.57	2.72	1.7	84
AUG													
17...	17.5	135	.0655	.0469	761	7.5	79	110	32.2	8.04	2.97	1.5	100
SEP													
10...	8.1	118	.0601	.0426	759	11.1	94	120	34.8	8.45	3.21	1.4	116

15453500 YUKON RIVER NEAR STEVENS VILLAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Alkalinity, wat flt fxd end field, mg/L as CaCO3 (39036)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
APR													
01...	.0	108	110	35.1	1.33	<.17	7.36	185	170	<.002	.084	<.010	E.09
JUN													
04...	.0	61	62	19.0	.58	<.17	4.41	121	94	.002	.033	<.010	.8
09...	.0	61	62	20.7	.55	<.17	4.73	113	96	E.001	.033	<.010	.7
23...	.0	72	72	29.1	.66	<.17	5.94	135	120	<.002	.036	<.010	.4
JUL													
13...	.0	69	69	32.8	.94	.28	5.68	141	124	E.001	.032	E.005	.4
AUG													
17...	.0	82	82	37.7	.68	<.17	5.49	142	138	<.002	.037	E.005	.3
SEP													
10...	.0	95	93	37.9	.91	<.17	5.67	164	150	E.001	.038	.010	.2

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)
APR													
01...	E.06	.007	E.003	<.006	1.6	E.1	.4	67.8	<.06	15	<.04	<.8	.123
JUN													
04...	.3	.649	.008	<.006	29.3	E.2	.6	39.3	<.06	E4	E.02	<.8	.154
09...	.2	.465	.005	<.006	26.2	E.2	.6	42.3	<.06	E5	<.04	<.8	.112
23...	.1	.325	.004	<.006	21.4	.2	.7	50.7	<.06	E6	<.04	<.8	.131
JUL													
13...	E.07	.50	<.004	<.006	23.6	.3	.7	49.2	<.06	10	<.04	<.8	.111
AUG													
17...	E.08	.40	E.003	<.006	24.9	.2	.6	47.1	<.06	14	<.04	<.8	.093
SEP													
10...	E.09	.20	<.004	<.006	13.4	E.2	.6	46.9	<.06	15	<.04	<.8	.150

Date	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
APR													
01...	.8	15.5	<.08	3.3	20.4	1.5	1.06	.6	<.20	178	.37	.8	1.15
JUN													
04...	3.6	107	.10	2.1	4.2	.7	2.53	E.3	<.20	85.8	.69	1.0	.62
09...	2.8	60.5	.08	2.0	3.8	.7	1.86	.4	<.20	94.7	.49	E.5	.62
23...	2.0	15.8	<.08	2.6	3.5	1.0	1.54	.6	<.20	109	.65	E.5	.82
JUL													
13...	1.4	<6.4	<.08	3.0	3.2	1.5	1.07	.7	<.20	138	.73	<.6	.97
AUG													
17...	1.5	6.7	<.08	3.8	1.8	1.5	1.07	.5	<.20	144	.93	.7	.93
SEP													
10...	2.7	E6.1	<.08	5.2	8.0	1.5	1.11	.6	<.20	157	.56	1.1	.91

Date	Organic carbon, water, fltrd, mg/L (00681)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Total carbon, suspnd sedimnt total, mg/L (00694)	Particulate nitrogen, susp, water, mg/L (49570)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)
APR								
01...	1.8	<.12	.140	.148	<.022	4	222	87
JUN								
04...	10	2.17	7.03	9.20	.511	612	701000	80
09...	9.1	.956	4.28	5.24	.292	415	441000	74
23...	4.6	<.12	2.83	2.89	.155	351	251000	72
JUL								
13...	2.4	7.67	6.28	13.9	.285	664	339000	89
AUG								
17...	1.2	6.10	1.70	7.79	.131	460	188000	88
SEP								
10...	2.2	.683	1.41	2.09	.072	236	--	74

15477730 LIESE CREEK NEAR BIG DELTA

LOCATION.--Lat 64°26'53", long 144°52'59", in SW$^1/_4$ sec.25, T.5 S., R.14 E., (Big Delta B-2 quad), Hydrologic Unit 19040503, on right bank, 1.7 mi upstream from mouth, 1.5 mi east of Teck Cominco Corp, Pogo Mine Camp site, and 34 mi northeast of Big Delta.

DRAINAGE AREA.--1.08 mi^2.

PERIOD OF RECORD.--October 1999 to current year (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 2200 ft above sea level, from topographic map.

REMARKS.--Records fair except for discharges below 0.2 cfs which are poor. Estimated daily discharges are poor.

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	0.73	e0.25	e0.05	e0.01	e0.01	e0.01	e0.01	e0.12	1.1	0.25	0.56	0.33
2	0.72	e0.24	e0.05	e0.01	e0.01	e0.01	e0.01	e0.17	1.2	0.25	0.72	0.33
3	0.72	e0.23	e0.05	e0.01	e0.01	e0.01	e0.01	e0.26	1.7	0.25	0.62	0.31
4	0.78	e0.22	e0.04	e0.01	e0.01	e0.01	e0.01	e0.63	1.3	0.24	0.53	0.31
5	0.81	e0.21	e0.04	e0.01	e0.01	e0.01	e0.02	e1.3	0.96	0.73	0.45	0.31
6	0.82	e0.20	e0.04	e0.01	e0.01	e0.01	e0.02	e1.8	0.82	0.90	0.40	0.31
7	0.80	e0.19	e0.04	e0.01	e0.01	e0.01	e0.02	e2.3	0.68	0.78	0.36	0.29
8	0.77	e0.18	e0.03	e0.01	e0.01	e0.01	e0.02	2.9	3.2	0.56	0.34	0.31
9	0.73	e0.17	e0.03	e0.01	e0.01	e0.01	e0.02	3.5	7.7	0.47	0.33	0.30
10	0.69	e0.16	e0.03	e0.01	e0.01	e0.01	e0.02	2.0	3.7	0.41	0.32	0.28
11	e0.66	e0.16	e0.03	e0.01	e0.01	e0.01	e0.02	3.6	2.0	0.38	0.33	0.25
12	e0.62	e0.15	e0.02	e0.01	e0.01	e0.01	e0.02	6.4	1.3	0.35	0.34	0.25
13	e0.58	e0.14	e0.02	e0.01	e0.01	e0.01	e0.02	3.7	1.0	0.32	0.34	0.25
14	e0.54	e0.13	e0.02	e0.01	e0.01	e0.01	e0.02	2.8	0.90	0.30	0.33	0.25
15	e0.52	e0.13	e0.02	e0.01	e0.01	e0.01	e0.02	3.0	0.77	0.30	0.32	0.24
16	e0.49	e0.12	e0.02	e0.01	e0.01	e0.01	e0.03	2.3	0.68	0.29	0.31	0.24
17	e0.47	e0.12	e0.01	e0.01	e0.01	e0.01	e0.03	1.8	0.59	0.29	0.30	0.23
18	e0.45	e0.11	e0.01	e0.01	e0.01	e0.01	e0.03	1.2	0.52	0.28	0.29	0.24
19	e0.42	e0.10	e0.01	e0.01	e0.01	e0.01	e0.03	0.90	0.47	0.28	0.29	0.22
20	e0.40	e0.10	e0.01	e0.01	e0.01	e0.01	e0.03	0.66	0.42	0.27	0.30	0.23
21	e0.38	e0.09	e0.01	e0.01	e0.01	e0.01	e0.03	0.48	0.39	0.26	0.32	0.22
22	e0.37	e0.09	e0.01	e0.01	e0.01	e0.01	e0.03	0.44	0.36	0.26	0.32	0.23
23	e0.35	e0.08	e0.01	e0.01	e0.01	e0.01	e0.03	0.55	0.33	0.27	0.32	e0.22
24	e0.34	e0.08	e0.01	e0.01	e0.01	e0.01	e0.03	0.79	0.31	0.27	0.32	e0.21
25	e0.32	e0.07	e0.01	e0.01	e0.01	e0.01	e0.03	1.4	0.29	0.26	0.31	e0.20
26	e0.31	e0.07	e0.01	e0.01	e0.01	e0.01	e0.03	2.2	0.28	0.26	0.31	e0.20
27	e0.30	e0.06	e0.01	e0.01	e0.01	e0.01	e0.04	2.1	0.28	0.26	0.32	e0.19
28	e0.29	e0.06	e0.01	e0.01	e0.01	e0.01	e0.05	1.4	0.26	0.25	0.33	e0.19
29	e0.28	e0.06	e0.01	e0.01	e0.01	e0.01	e0.07	1.7	0.26	0.25	0.32	e0.19
30	e0.27	e0.05	e0.01	e0.01	---	e0.01	e0.09	1.8	0.25	0.25	0.33	e0.18
31	e0.26	---	e0.01	e0.01	---	e0.01	---	1.3	---	0.25	0.33	---
TOTAL	16.19	4.02	0.68	0.31	0.29	0.31	0.84	55.50	34.02	10.74	11.31	7.51
MEAN	0.52	0.13	0.02	0.01	0.01	0.01	0.03	1.79	1.13	0.35	0.36	0.25
MAX	0.82	0.25	0.05	0.01	0.01	0.01	0.09	6.4	7.7	0.90	0.72	0.33
MIN	0.26	0.05	0.01	0.01	0.01	0.01	0.01	0.12	0.25	0.24	0.29	0.18
MED	0.49	0.12	0.02	0.01	0.01	0.01	0.03	1.7	0.68	0.27	0.33	0.24
AC-FT	32	8.0	1.3	0.6	0.6	0.6	1.7	110	67	21	22	15
CFSM	0.48	0.12	0.02	0.01	0.01	0.01	0.03	1.66	1.05	0.32	0.34	0.23
IN.	0.56	0.14	0.02	0.01	0.01	0.01	0.03	1.91	1.17	0.37	0.39	0.26

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)

MEAN	0.28	0.06	0.01	0.01	0.01	0.01	0.11	1.36	1.12	0.84	1.30	1.17
MAX	0.52	0.13	0.02	0.01	0.01	0.01	0.46	1.79	2.31	1.34	2.31	2.59
(WY)	2004	2004	2002	2002	2002	2002	2003	2004	2000	2001	2002	2003
MIN	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.21	0.35	0.36	0.25
(WY)	2000	2000	2000	2000	2000	2000	2000	2003	2003	2004	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004	
ANNUAL TOTAL	191.10		141.72			
ANNUAL MEAN	0.52		0.39		0.52	
HIGHEST ANNUAL MEAN					0.66	2000
LOWEST ANNUAL MEAN					0.39	2004
HIGHEST DAILY MEAN	9.6	Sep 2	7.7	Jun 9	9.6	Sep 2 2003
LOWEST DAILY MEAN	a0.01	Jan 1	b0.01	Dec 17	c0.00	Oct 30 1999
ANNUAL SEVEN-DAY MINIMUM	0.01	Jan 1	0.01	Dec 17	0.00	Oct 30 1999
MAXIMUM PEAK FLOW			23	Jun 8	23	Jun 8 2004
MAXIMUM PEAK STAGE			20.75	Jun 8	20.75	Jun 8 2004
MAXIMUM PEAK STAGE					d22.80	May 18 2000
ANNUAL RUNOFF (AC-FT)	379		281		380	
ANNUAL RUNOFF (CFSM)	0.485		0.359		0.486	
ANNUAL RUNOFF (INCHES)	6.58		4.88		6.60	
10 PERCENT EXCEEDS	1.1		0.82		1.5	
50 PERCENT EXCEEDS	0.13		0.20		0.08	
90 PERCENT EXCEEDS	0.01		0.01		0.00	

a Jan. 1 to Apr. 13
b Dec. 17 to Apr. 4
c Oct. 30, 1999 to May 7, 2000 and Nov. 30, 2000 to Apr. 21, 2001
d Backwater from ice
e Estimated

15477740 GOODPASTER RIVER NEAR BIG DELTA

LOCATION.--Lat 64°27'02", long 144°56'32", in SE$^1/_4$ sec.27, T.5 S., R.14 E., (Big Delta B-2 quad), Hydrologic Unit 19040503, on right bank, 0.3 mi northwest of Pogo Mine Camp site, 7 mi upstream from Central Creek, and 34 mi northeast of Big Delta.

DRAINAGE AREA.--677 mi^2.

PERIOD OF RECORD.--August 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1350 ft above sea level, from topographic map. August 1997 to August 13, 2000 gage located 300 ft upstream of present site at same datum. August 14, 2000 to May 4, 2004 gage located 700 ft downstream of present site at same datum.

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

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	680	e200	e140	e92	e88	e78	e72	e900	1090	e300	573	413
2	679	e200	e140	e92	e88	e78	e72	e1000	991	e290	990	406
3	669	e190	e140	e92	e86	e78	e72	e700	1170	e280	827	401
4	656	e190	e130	e92	e86	e78	e72	e800	1100	e280	710	399
5	617	e180	e130	e92	e86	e78	e72	e1300	856	e290	629	397
6	608	e170	e130	e90	e86	e78	e72	1620	757	e440	575	388
7	590	e160	e120	e90	e86	e76	e72	4820	746	e540	535	375
8	567	e150	e120	e90	e86	e76	e72	3930	891	441	503	364
9	548	e130	e120	e90	e86	e76	e72	2030	2750	397	475	354
10	538	e120	e120	e90	e84	e76	e74	1440	1830	369	456	344
11	480	e110	e120	e90	e84	e76	e74	1350	1180	343	450	336
12	e430	e110	e110	e90	e84	e76	e74	3420	929	314	442	328
13	e390	e120	e110	e90	e84	e76	e74	2720	766	289	432	320
14	e340	e130	e110	e90	e84	e76	e74	1920	733	277	417	338
15	e310	e130	e110	e90	e84	e76	e74	1770	699	e260	405	345
16	e280	e140	e110	e90	e84	e74	e78	1950	661	e250	398	322
17	e240	e140	e110	e88	e82	e74	e82	1650	619	e250	392	311
18	e220	e140	e110	e88	e82	e74	e86	1270	565	e240	395	300
19	e230	e150	e110	e88	e82	e74	e90	1030	524	e240	393	294
20	e240	e150	e100	e88	e82	e74	e100	808	493	e330	391	298
21	e240	e150	e100	e88	e82	e74	e110	651	462	311	415	310
22	e250	e150	e100	e88	e82	e74	e130	627	435	432	416	301
23	e250	e150	e100	e88	e80	e74	e160	719	447	718	408	299
24	e260	e150	e100	e88	e80	e74	e180	924	400	646	405	306
25	e250	e160	e98	e88	e80	e72	e220	1050	372	563	401	275
26	e250	e160	e98	e88	e80	e72	e280	1480	362	533	394	282
27	e240	e160	e96	e88	e80	e72	e370	1240	354	494	393	300
28	e230	e150	e96	e88	e80	e72	e410	1230	341	455	391	269
29	e220	e150	e94	e88	e78	e72	e460	1390	330	451	432	248
30	e210	e150	e94	e88	---	e72	e700	1680	310	450	447	254
31	e210	---	e94	e88	---	e72	---	1200	---	445	422	---
TOTAL	11922	4540	3460	2770	2416	2322	4548	48619	23163	11918	14912	9877
MEAN	385	151	112	89.4	83.3	74.9	152	1568	772	384	481	329
MAX	680	200	140	92	88	78	700	4820	2750	718	990	413
MIN	210	110	94	88	78	72	72	627	310	240	391	248
AC-FT	23650	9010	6860	5490	4790	4610	9020	96440	45940	23640	29580	19590
CFSM	0.57	0.22	0.16	0.13	0.12	0.11	0.22	2.32	1.14	0.57	0.71	0.49
IN.	0.66	0.25	0.19	0.15	0.13	0.13	0.25	2.67	1.27	0.65	0.82	0.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)#

MEAN	277	122	88.4	63.8	53.4	48.1	154	991	895	778	967	755
MAX	385	153	123	90.6	83.3	76.4	440	1568	1993	1158	1651	1785
(WY)	2004	2003	2003	2001	2004	2001	2003	2004	2000	2003	2000	2003
MIN	149	90.1	57.5	28.9	13.6	10.5	52.7	562	468	384	481	329
(WY)	2000	1999	1999	1999	1999	1999	2002	2003	1998	2004	2004	2004

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

15477740 GOODPASTER RIVER NEAR BIG DELTA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004#	
ANNUAL TOTAL	189843		140467			
ANNUAL MEAN	520		384		440	
HIGHEST ANNUAL MEAN					595	2000
LOWEST ANNUAL MEAN					272	1999
HIGHEST DAILY MEAN	8890	Sep 2	4820	May 7	8890	Sep 2 2003
LOWEST DAILY MEAN	a60	Apr 1	b72	Mar 25	c10	Mar 8 1999
ANNUAL SEVEN-DAY MINIMUM	60	Apr 1	72	Mar 25	10	Mar 8 1999
MAXIMUM PEAK FLOW			7040	May 7	11300	Sep 2 2003
MAXIMUM PEAK STAGE			18.74	May 7	d17.97	Sep 2 2003
ANNUAL RUNOFF (AC-FT)	376600		278600		318800	
ANNUAL RUNOFF (CFSM)	0.768		0.567		0.650	
ANNUAL RUNOFF (INCHES)	10.43		7.72		8.83	
10 PERCENT EXCEEDS	1160		836		1030	
50 PERCENT EXCEEDS	240		235		180	
90 PERCENT EXCEEDS	64		76		40	

\# See Period of Record; partial years used in monthly statistics
a From Apr. 1 to 11
b From Mar. 25 to Apr. 9
c From Mar. 8 to 24, 1999
d Recorded at downstream gage site. (19.49 ft was recorded Aug. 14, 2000 at upstream gage site but corresponds to a lower peak flow)

15477768 SONORA CREEK ABOVE TRIBUTARY NEAR BIG DELTA

LOCATION.--Lat 64°23'22", long 144°46'40", in SW$^1/_4$ sec.16, T.6 S., R.15 E. (Big Delta B-2 quad), Hydrologic Unit 19040503, on right bank, 2.5 miles upstream from mouth, 6.3 miles southeast of Pogo Mine Camp site, and 35 miles northeast of Big Delta.

DRAINAGE AREA.--6.05 mi^2.

PERIOD OF RECORD.--May, 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1650 ft above sea level, from topographic map.

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

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	5.7	e4.0	e2.4	e1.7	e1.6	e1.5	e1.4	e9.5	6.1	3.8	4.5	3.0
2	5.7	e4.0	e2.4	e1.7	e1.6	e1.5	e1.4	e12	6.6	3.7	4.4	3.0
3	5.7	e3.9	e2.4	e1.7	e1.6	e1.5	e1.4	e10	7.3	3.7	4.1	2.9
4	5.6	e3.9	e2.3	e1.7	e1.6	e1.5	e1.4	e8.8	6.0	3.7	3.9	2.9
5	5.5	e3.8	e2.3	e1.7	e1.6	e1.5	e1.4	12	4.9	8.4	3.7	2.9
6	5.5	e3.6	e2.3	e1.7	e1.6	e1.5	e1.4	15	4.5	7.8	3.6	2.9
7	5.4	e3.4	e2.2	e1.7	e1.5	e1.5	e1.5	37	4.3	5.8	3.5	2.9
8	5.3	e3.3	e2.2	e1.7	e1.5	e1.5	e1.5	14	5.0	4.6	3.5	2.9
9	5.3	e3.2	e2.2	e1.7	e1.5	e1.4	e1.5	13	12	4.3	3.4	2.8
10	5.2	e3.1	e2.2	e1.7	e1.5	e1.4	e1.5	9.6	9.3	4.1	3.4	2.7
11	5.0	e3.0	e2.1	e1.7	e1.5	e1.4	e1.5	11	6.3	4.0	3.3	2.7
12	5.2	e3.4	e2.1	e1.7	e1.5	e1.4	e1.5	16	5.3	3.8	3.3	2.7
13	4.5	e3.3	e2.1	e1.7	e1.5	e1.4	e1.6	9.7	4.9	3.6	3.3	2.7
14	4.7	e3.2	e2.1	e1.7	e1.5	e1.4	e1.6	7.3	4.6	3.6	3.1	2.7
15	4.7	e3.2	e2.1	e1.7	e1.5	e1.4	e1.6	6.4	4.4	3.5	3.1	2.7
16	4.3	e3.1	e2.0	e1.7	e1.5	e1.4	e1.6	5.5	4.3	3.5	3.1	2.7
17	4.2	e3.1	e2.0	e1.6	e1.5	e1.4	e1.6	4.7	4.2	3.4	3.1	2.6
18	4.1	e3.0	e2.0	e1.6	e1.5	e1.4	e1.7	4.2	4.1	3.3	3.0	2.6
19	e4.0	e2.9	e2.0	e1.6	e1.5	e1.4	e1.7	4.0	4.1	3.3	3.0	2.6
20	e4.1	e2.9	e2.0	e1.6	e1.5	e1.4	e1.7	3.8	4.0	3.4	3.1	2.7
21	e4.2	e2.8	e1.9	e1.6	e1.5	e1.4	e1.7	3.5	4.0	3.4	3.1	2.7
22	e4.3	e2.8	e1.9	e1.6	e1.5	e1.4	e1.8	3.5	3.9	3.5	3.1	2.7
23	e4.3	e2.7	e1.9	e1.6	e1.5	e1.4	e1.9	3.5	3.9	3.4	3.0	2.7
24	e4.4	e2.7	e1.9	e1.6	e1.5	e1.4	e2.2	3.7	3.8	3.4	3.0	2.5
25	e4.4	e2.6	e1.9	e1.6	e1.5	e1.4	e2.8	4.4	3.8	3.3	3.0	2.2
26	e4.3	e2.6	e1.9	e1.6	e1.5	e1.4	e3.4	5.5	3.8	3.3	3.0	2.7
27	e4.3	e2.6	e1.9	e1.6	e1.5	e1.4	e4.2	8.7	3.8	3.2	3.0	2.6
28	e4.3	e2.5	e1.8	e1.6	e1.5	e1.4	e4.9	5.8	3.8	3.3	3.2	2.4
29	e4.2	e2.5	e1.8	e1.6	e1.5	e1.4	e6.4	4.9	3.8	3.4	3.0	2.3
30	e4.2	e2.5	e1.8	e1.6	---	e1.4	e7.8	4.9	3.8	3.4	3.0	2.6
31	e4.1	---	e1.8	e1.6	---	e1.4	---	5.1	---	3.3	3.0	---
TOTAL	146.7	93.6	63.9	51.2	44.1	44.2	67.6	267.0	150.6	122.2	102.8	81.0
MEAN	4.73	3.12	2.06	1.65	1.52	1.43	2.25	8.61	5.02	3.94	3.32	2.70
MAX	5.7	4.0	2.4	1.7	1.6	1.5	7.8	37	12	8.4	4.5	3.0
MIN	4.0	2.5	1.8	1.6	1.5	1.4	1.4	3.5	3.8	3.2	3.0	2.2
MED	4.4	3.1	2.0	1.7	1.5	1.4	1.6	6.4	4.3	3.5	3.1	2.7
AC-FT	291	186	127	102	87	88	134	530	299	242	204	161
CFSM	0.78	0.52	0.34	0.27	0.25	0.24	0.37	1.42	0.83	0.65	0.55	0.45
IN.	0.90	0.58	0.39	0.31	0.27	0.27	0.42	1.64	0.93	0.75	0.63	0.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2004, BY WATER YEAR (WY)#

MEAN	4.62	2.88	2.05	1.60	1.48	1.39	2.44	7.27	3.42	3.56	5.45	6.13
MAX	6.03	3.89	2.63	2.03	1.68	1.50	4.24	10.7	5.02	4.58	7.97	9.42
(WY)	2001	2001	2001	2001	2001	2003	2003	2002	2004	2001	2002	2000
MIN	2.84	1.67	1.16	1.12	1.16	1.14	1.23	3.79	2.10	2.58	3.32	2.70
(WY)	2002	2002	2002	2002	2002	2002	2002	2003	2003	2000	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2000 - 2004#	
ANNUAL TOTAL	1171.6		1234.9			
ANNUAL MEAN	3.21		3.37		3.40	
HIGHEST ANNUAL MEAN					3.64	2002
LOWEST ANNUAL MEAN					3.23	2003
HIGHEST DAILY MEAN	17	Apr 27	37	May 7	37	May 7 2004
LOWEST DAILY MEAN	a1.5	Feb 18	b1.4	Mar 9	0.94	Apr 20 2002
ANNUAL SEVEN-DAY MINIMUM	1.5	Feb 18	1.4	Mar 9	0.95	Apr 20 2002
MAXIMUM PEAK FLOW			c56	May 7	c56	May 7 2004
MAXIMUM PEAK STAGE			21.74	May 7	21.74	May 7 2004
INSTANTANEOUS LOW FLOW					d0.56	Mar 21 2000
ANNUAL RUNOFF (AC-FT)	2320		2450		2460	
ANNUAL RUNOFF (CFSM)	0.531		0.558		0.561	
ANNUAL RUNOFF (INCHES)	7.20		7.59		7.62	
10 PERCENT EXCEEDS	5.7		5.5		6.2	
50 PERCENT EXCEEDS	2.4		2.9		2.6	
90 PERCENT EXCEEDS	1.5		1.5		1.3	

\# See Period of Record; partial years used in monthly statistics
a Feb. 18 through Apr. 9
b Mar. 9 through Apr. 6
c From rating curve extended above 15 ft^3/s
d Minimum observed outside period of record, result of discharge measurement
e Estimated

15477770 SONORA CREEK NEAR BIG DELTA

LOCATION.--Lat 64°22'40", long 144°48'41", in SE$^1/_4$ sec.20, T.6 S., R.15 E. (Big Delta B-2 quad), Hydrologic Unit 19040503, on left bank, 1.2 mi upstream from mouth, 6.5 mi southeast of Pogo Mine Camp site, and 34 mi northeast of Big Delta.

DRAINAGE AREA.--10.5 mi^2.

PERIOD OF RECORD.--August 1997 to current year.

REVISED RECORDS.--WDR AK-00-1: 1998 (M). WDR AK-01-1: 2000.

GAGE.--Water-stage recorder. Elevation of gage is 1450 ft above sea level, from topographic map.

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

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	8.2	e5.9	e4.1	e2.9	e2.5	e2.2	e2.0	e16	8.8	5.4	6.6	4.1
2	8.5	e5.8	e4.0	e2.9	e2.5	e2.2	e2.0	e20	9.5	5.2	6.4	4.0
3	8.9	e5.7	e4.0	e2.9	e2.5	e2.2	e2.0	e17	11	5.2	5.9	4.1
4	8.9	e5.7	e3.9	e2.8	e2.4	e2.2	e2.0	e13	9.0	5.2	5.5	4.1
5	8.6	e5.6	e3.8	e2.8	e2.4	e2.2	e2.0	18	7.6	12	5.3	4.1
6	8.5	e5.5	e3.8	e2.8	e2.4	e2.2	e2.0	23	6.6	12	5.1	4.0
7	8.5	e5.4	e3.7	e2.8	e2.4	e2.2	e2.1	e99	6.5	9.6	4.9	4.0
8	8.3	e5.3	e3.7	e2.8	e2.4	e2.2	e2.1	26	8.0	8.0	4.7	3.9
9	8.2	e5.2	e3.6	e2.8	e2.4	e2.2	e2.1	24	21	7.2	4.6	3.8
10	7.9	e5.2	e3.6	e2.8	e2.4	e2.2	e2.1	16	17	7.0	4.9	3.7
11	7.2	e5.1	e3.6	e2.8	e2.4	e2.1	e2.1	17	11	6.6	4.7	3.6
12	e6.1	e5.0	e3.5	e2.7	e2.4	e2.1	e2.1	31	8.7	6.1	4.5	3.6
13	6.2	e5.5	e3.5	e2.7	e2.4	e2.1	e2.2	15	7.8	5.8	4.3	3.6
14	6.1	e5.4	e3.4	e2.7	e2.3	e2.1	e2.2	10	7.3	5.7	4.2	3.8
15	e5.7	e5.3	e3.4	e2.7	e2.3	e2.1	e2.2	8.6	7.0	5.8	4.2	3.8
16	e5.6	e5.2	e3.3	e2.7	e2.3	e2.1	e2.2	7.2	6.7	5.5	4.2	3.6
17	e5.6	e5.2	e3.3	e2.7	e2.3	e2.1	e2.3	5.8	6.5	5.3	4.1	3.5
18	e5.5	e5.1	e3.3	e2.7	e2.3	e2.1	e2.3	5.2	6.2	5.2	4.0	3.5
19	e5.7	e5.0	e3.3	e2.7	e2.3	e2.1	e2.4	4.9	6.1	5.4	4.0	3.4
20	e5.9	e4.9	e3.2	e2.6	e2.3	e2.1	e2.5	4.6	6.0	5.4	4.1	3.5
21	e6.1	e4.8	e3.2	e2.6	e2.3	e2.1	e2.6	4.2	5.8	5.3	4.2	3.7
22	e6.2	e4.8	e3.2	e2.6	e2.3	e2.1	e2.9	4.1	5.8	5.8	4.1	3.6
23	e6.3	e4.7	e3.2	e2.6	e2.3	e2.1	e3.4	4.0	5.8	5.4	4.1	3.7
24	e6.4	e4.6	e3.1	e2.6	e2.3	e2.1	e3.9	4.3	5.5	5.2	4.0	3.5
25	e6.4	e4.5	e3.1	e2.6	e2.2	e2.1	e4.6	5.7	5.5	5.1	4.1	2.9
26	e6.4	e4.4	e3.1	e2.6	e2.2	e2.1	e5.5	8.1	5.5	5.1	4.1	3.8
27	e6.3	e4.4	e3.0	e2.5	e2.2	e2.1	e7.0	15	5.4	4.9	3.9	3.7
28	e6.3	e4.3	e3.0	e2.5	e2.2	e2.0	e8.3	9.3	5.5	4.8	4.4	3.3
29	e6.2	e4.2	e3.0	e2.5	e2.2	e2.0	e10	7.6	5.2	5.0	4.2	3.2
30	e6.1	e4.1	e2.9	e2.5	---	e2.0	e13	8.2	5.5	4.9	4.2	3.6
31	e6.1	---	e2.9	e2.5	---	e2.0	---	8.2	---	4.7	4.0	---
TOTAL	212.9	151.8	105.7	83.4	67.8	65.7	104.1	460.0	233.8	189.8	141.5	110.7
MEAN	6.87	5.06	3.41	2.69	2.34	2.12	3.47	14.8	7.79	6.12	4.56	3.69
MAX	8.9	5.9	4.1	2.9	2.5	2.2	13	99	21	12	6.6	4.1
MIN	5.5	4.1	2.9	2.5	2.2	2.0	2.0	4.0	5.2	4.7	3.9	2.9
AC-FT	422	301	210	165	134	130	206	912	464	376	281	220
CFSM	0.65	0.48	0.32	0.26	0.22	0.20	0.33	1.41	0.74	0.58	0.43	0.35
IN.	0.75	0.54	0.37	0.30	0.24	0.23	0.37	1.63	0.83	0.67	0.50	0.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)#

MEAN	4.77	2.91	1.97	1.41	1.25	1.14	2.71	10.3	5.04	4.94	7.58	8.05
MAX	8.88	5.06	3.41	2.69	2.34	2.12	7.40	16.4	7.79	6.83	16.0	18.5
(WY)	2001	2004	2004	2004	2004	2004	2003	2000	2004	2001	2000	2000
MIN	1.63	1.31	0.98	0.71	0.56	0.45	0.91	4.27	1.74	3.11	4.29	2.69
(WY)	2000	2000	1998	1998	1998	1998	1998	1998	1998	1998	1998	1999

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004#	
ANNUAL TOTAL	1879.5		1927.2			
ANNUAL MEAN	5.15		5.27		4.40	
HIGHEST ANNUAL MEAN					5.91	2000
LOWEST ANNUAL MEAN					2.07	1998
HIGHEST DAILY MEAN	47	Sep 1	e99	May 7	e99	May 7 2004
LOWEST DAILY MEAN	a1.5	Feb 23	b2.0	Mar 28	0.40	Mar 7 1998
ANNUAL SEVEN-DAY MINIMUM	1.5	Feb 23	2.0	Mar 28	0.40	Mar 7 1998
MAXIMUM PEAK FLOW			c180	May 7	c180	May 7 2004
MAXIMUM PEAK STAGE			30.46	May 7	30.46	May 7 2004
ANNUAL RUNOFF (AC-FT)	3730		3820		3180	
ANNUAL RUNOFF (CFSM)	0.490		0.501		0.419	
ANNUAL RUNOFF (INCHES)	6.66		6.83		5.69	
10 PERCENT EXCEEDS	9.8		8.4		9.0	
50 PERCENT EXCEEDS	3.8		4.1		2.7	
90 PERCENT EXCEEDS	1.5		2.2		0.70	

\# See Period of Record; partial years used in monthly statistics
a From Feb. 23 to Apr. 3
b From Mar. 28 to Apr. 6
c From rating curve extended above 30 ft^3/s
e Estimated

15477790 CENTRAL CREEK NEAR BIG DELTA

LOCATION.--Lat 64°22'37", long 144°56'35", in SE$^1/_4$ sec. 22, T. 6 S., R. 14 E. (Big Delta B-2 quad), Hydrologic Unit 19040503, on right bank, 0.5 mi upstream from mouth, 5 mi south of Pogo Mine Camp site, and 31 mi northeast of Big Delta.

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--August 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1250 ft above sea level, from topographic map.

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

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	79	e28	e14	e10	e9.0	e8.0	e8.0	280	215	27	38	31
2	81	e29	e14	e10	e8.0	e8.0	e8.0	331	199	25	82	29
3	82	e29	e14	e10	e8.0	e8.0	e8.0	208	246	25	65	29
4	82	e29	e14	e10	e8.0	e8.0	e8.0	230	194	24	53	29
5	79	e28	e13	e10	e8.0	e8.0	e9.0	363	125	40	46	29
6	78	e28	e13	e9.0	e8.0	e8.0	e9.0	593	93	55	41	28
7	77	e27	e13	e9.0	e8.0	e8.0	e9.0	2050	83	63	38	28
8	74	e26	e13	e9.0	e8.0	e8.0	e9.0	1270	296	51	35	28
9	71	e24	e13	e9.0	e8.0	e8.0	e9.0	737	767	44	33	27
10	70	e22	e12	e9.0	e8.0	e8.0	e9.0	444	639	39	32	27
11	57	e20	e12	e9.0	e8.0	e8.0	e9.0	449	259	37	32	26
12	61	e19	e12	e9.0	e8.0	e8.0	9.4	1260	149	33	31	25
13	42	e23	e12	e9.0	e8.0	e8.0	9.5	688	102	30	30	25
14	34	e22	e12	e9.0	e8.0	e8.0	10	408	81	28	29	28
15	e34	e22	e12	e9.0	e8.0	e8.0	10	339	74	27	28	28
16	e31	e21	e12	e9.0	e8.0	e8.0	11	278	63	27	28	26
17	e28	e20	e11	e9.0	e8.0	e8.0	11	206	56	26	28	24
18	e24	e19	e11	e9.0	e8.0	e8.0	12	151	50	25	27	23
19	e26	e19	e11	e9.0	e8.0	e8.0	15	118	46	24	26	22
20	e28	e18	e11	e9.0	e8.0	e8.0	18	92	41	29	26	24
21	e29	e18	e11	e9.0	e8.0	e8.0	20	73	38	30	35	25
22	e30	e17	e11	e9.0	e8.0	e8.0	23	63	34	30	36	24
23	e29	e17	e11	e9.0	e8.0	e8.0	25	66	32	33	35	25
24	e29	e16	e10	e9.0	&15	e8.0	27	73	31	31	34	25
25	e29	e16	e10	e9.0	e8.0	e8.0	35	100	29	30	33	21
26	e28	e15	e10	e9.0	e8.0	e8.0	47	243	29	31	32	23
27	e28	e15	e10	e9.0	e8.0	e8.0	62	515	29	29	31	27
28	e27	e15	e10	e9.0	e8.0	e8.0	67	348	29	28	32	23
29	e27	e15	e10	e9.0	e8.0	e8.0	76	314	28	29	33	23
30	e27	e14	e10	e9.0	---	e8.0	134	255	28	29	33	23
31	e28	---	e10	e9.0	---	e8.0	---	179	---	29	32	---
TOTAL	1449	631	362	284.0	240.0	248.0	716.9	12724	4085	1008	1114	775
MEAN	46.7	21.0	11.7	9.16	8.28	8.00	23.9	410	136	32.5	35.9	25.8
MAX	82	29	14	10	15	8.0	134	2050	767	63	82	31
MIN	24	14	10	9.0	8.0	8.0	8.0	63	28	24	26	21
AC-FT	2870	1250	718	563	476	492	1420	25240	8100	2000	2210	1540
CFSM	0.41	0.18	0.10	0.08	0.07	0.07	0.21	3.57	1.18	0.28	0.31	0.22
IN.	0.47	0.20	0.12	0.09	0.08	0.08	0.23	4.12	1.32	0.33	0.36	0.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)#

MEAN	34.5	15.0	7.44	4.26	3.30	2.88	19.5	189	95.4	77.9	111	91.6
MAX	60.3	30.9	17.4	11.3	8.74	8.00	68.4	410	170	128	237	228
(WY)	2003	2001	2003	2001	2001	2004	2003	2004	2000	2001	2000	2003
MIN	13.8	4.71	0.75	0.03	0.00	0.00	3.83	81.6	26.3	32.5	35.9	25.8
(WY)	2000	1999	1999	1999	1999	1999	2002	1998	1998	2004	2004	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004#	
ANNUAL TOTAL	21463.0		23636.9			
ANNUAL MEAN	58.8		64.6		55.3	
HIGHEST ANNUAL MEAN					75.7	2002
LOWEST ANNUAL MEAN					26.8	1998
HIGHEST DAILY MEAN	997	Sep 1	2050	May 7	2050	May 7 2004
LOWEST DAILY MEAN	a4.0	Mar 15	b8.0	Feb 2	c0.00	Jan 8 1999
ANNUAL SEVEN-DAY MINIMUM	4.0	Mar 15	8.0	Feb 2	0.00	Jan 8 1999
MAXIMUM PEAK FLOW			d2800	May 7	d2800	May 7 2004
MAXIMUM PEAK STAGE			46.42	May 7	46.42	May 7 2004
ANNUAL RUNOFF (AC-FT)	42570		46880		40060	
ANNUAL RUNOFF (CFSM)	0.511		0.562		0.481	
ANNUAL RUNOFF (INCHES)	6.94		7.65		6.53	
10 PERCENT EXCEEDS	126		107		129	
50 PERCENT EXCEEDS	26		25		22	
90 PERCENT EXCEEDS	4.2		8.0		0.30	

\# See Period of Record; partial years used in monthly statistics
a From Mar. 15 to Apr. 11
b From Feb. 2 to Apr. 4
c From Jan. 8 to Apr.17, 1999 and Feb. 18 to Apr. 17, 2000
d From rating curve extended above 430 ft^3/s
e Estimated

15478040 PHELAN CREEK NEAR PAXSON

LOCATION.--Lat 63°14'27", Long 145°28'03", in SW¼ sec. 28, T. 19 S., R. 12 E. (Mt.Hayes A-3 quad), Hydrologic Unit 19020102, on left bank about 1 mi downstream from terminus of Gulkana Glacier and 14.5 mi north of Paxson, Alaska.

DRAINAGE AREA.--12.2 mi^2.

PERIOD OF RECORD.--October 1966 to September 1978, annual maximums, water years 1984-85, October 1989 to current year. Water year 1994 not published, daily mean values of discharge are available from the computer files of the Alaska Science Center. Prior to October 1968, published as Gulkana Creek near Paxson.

GAGE.--Water-stage recorder. Datum of gage is 3,690.67 ft above sea level.

REMARKS.--Records are poor. Streamflow augmented by Gulkana Glacier and other glaciers that cover 7.5 mi^2 and 1.1 mi^2, respectively, of the drainage basin. A recording air temperature and precipitation gage at 4,860 ft above sea level, plus 3 snow and ice balance measurement sites, are located in the basin. Combined snow, ice, and water balances of the basin are published in other reports of the Geological Survey. GOES satellite telemetry at station.

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	148	e10	e6.0	e5.0	e5.0	e5.0	e4.0	e4.0	110	438	571	162
2	111	e9.0	e6.0	e5.0	e5.0	e5.0	e4.0	e4.0	88	500	617	280
3	98	e9.0	e6.0	e5.0	e5.0	e5.0	e4.0	e5.0	57	512	628	166
4	80	e9.0	e6.0	e5.0	e5.0	e5.0	e4.0	e5.0	73	442	627	74
5	63	e9.0	e6.0	e5.0	e5.0	e5.0	e4.0	e5.0	146	442	688	56
6	62	e9.0	e6.0	e5.0	e5.0	e5.0	e4.0	e6.0	313	545	640	49
7	50	e9.0	e6.0	e5.0	e5.0	e5.0	e4.0	e6.0	385	484	725	52
8	47	e8.0	e6.0	e5.0	e5.0	e5.0	e4.0	e7.0	371	553	719	56
9	42	e8.0	e6.0	e5.0	e5.0	e5.0	e4.0	e7.0	392	413	714	55
10	39	e8.0	e6.0	e5.0	e5.0	e5.0	e4.0	e8.0	453	454	583	48
11	37	e8.0	e6.0	e5.0	e5.0	e5.0	e4.0	e9.0	398	457	554	41
12	35	e8.0	e6.0	e5.0	e5.0	e5.0	e4.0	e10	365	545	367	40
13	e33	e8.0	e6.0	e5.0	e5.0	e5.0	e4.0	e12	372	587	345	33
14	e31	e8.0	e6.0	e5.0	e5.0	e5.0	e4.0	e14	393	495	441	29
15	e28	e8.0	e6.0	e5.0	e5.0	e5.0	e4.0	e16	375	440	590	26
16	e25	e8.0	e6.0	e5.0	e5.0	e5.0	e4.0	e18	306	493	482	25
17	e25	e7.0	e6.0	e5.0	e5.0	e5.0	e4.0	e20	327	583	528	28
18	e20	e7.0	e5.0	e5.0	e5.0	e5.0	e4.0	e25	379	689	576	24
19	e18	e7.0	e5.0	e5.0	e5.0	e5.0	e4.0	e30	472	684	567	27
20	e20	e7.0	e5.0	e5.0	e5.0	e5.0	e4.0	e38	532	652	502	26
21	e18	e7.0	e5.0	e5.0	e5.0	e5.0	e4.0	e55	507	623	565	26
22	e14	e6.0	e5.0	e5.0	e5.0	e5.0	e4.0	e77	544	567	451	25
23	e10	e6.0	e5.0	e5.0	e5.0	e4.0	e4.0	e102	497	469	449	24
24	e10	e6.0	e5.0	e5.0	e5.0	e4.0	e4.0	131	676	502	538	17
25	e10	e6.0	e5.0	e5.0	e5.0	e4.0	e4.0	110	607	511	413	17
26	e10	e6.0	e5.0	e5.0	e5.0	e4.0	e4.0	82	717	451	430	18
27	e10	e6.0	e5.0	e5.0	e5.0	e4.0	e4.0	94	611	630	551	21
28	e10	e6.0	e5.0	e5.0	e5.0	e4.0	e4.0	102	691	622	356	15
29	e10	e6.0	e5.0	e5.0	e5.0	e4.0	e4.0	89	711	662	287	15
30	e10	e6.0	e5.0	e5.0	---	e4.0	e4.0	89	548	611	270	14
31	e10	---	e5.0	e5.0	---	e4.0	---	109	---	572	214	---
TOTAL	1134	225.0	172.0	155.0	145.0	146.0	120.0	1289.0	12416	16628	15988	1489
MEAN	36.6	7.50	5.55	5.00	5.00	4.71	4.00	41.6	414	536	516	49.6
MAX	148	10	6.0	5.0	5.0	5.0	4.0	131	717	689	725	280
MIN	10	6.0	5.0	5.0	5.0	4.0	4.0	4.0	57	413	214	14
AC-FT	2250	446	341	307	288	290	238	2560	24630	32980	31710	2950
CFSM	3.00	0.61	0.45	0.41	0.41	0.39	0.33	3.41	33.9	44.0	42.3	4.07
IN.	3.46	0.69	0.52	0.47	0.44	0.45	0.37	3.93	37.86	50.70	48.75	4.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2004, BY WATER YEAR (WY)#

MEAN	12.5	6.15	4.31	3.33	2.80	2.47	2.34	17.7	152	316	259	61.6
MAX	36.6	15.1	8.67	5.32	5.00	4.71	4.00	48.2	414	536	516	129
(WY)	2004	2003	2003	1996	2004	2004	1971	1995	2004	2004	2004	1995
MIN	5.55	2.50	2.00	1.48	1.00	1.00	1.00	2.39	72.9	181	73.6	14.3
(WY)	1999	1978	1978	1967	1967	1967	1967	1992	1975	1991	1992	1992

15478040 PHELAN CREEK NEAR PAXSON—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1967 - 2004#	
ANNUAL TOTAL	25672.2		49907.0			
ANNUAL MEAN	70.3		136		70.7	
HIGHEST ANNUAL MEAN					136	2004
LOWEST ANNUAL MEAN					43.0	1973
HIGHEST DAILY MEAN	756	Aug 12	725	Aug 7	1330	Aug 13 1997
LOWEST DAILY MEAN	a2.3	Apr 11	b4.0	Mar 23	c1.0	Jan 16 1967
ANNUAL SEVEN-DAY MINIMUM	2.3	Apr 11	4.0	Mar 23	1.0	Jan 16 1967
MAXIMUM PEAK FLOW			1150	Jun 26	2320	Aug 13 1967
MAXIMUM PEAK STAGE			9.54	Jun 26	11.51	Aug 13 1967
MAXIMUM PEAK STAGE					df14.70	Jun 1 1967
ANNUAL RUNOFF (AC-FT)	50920		98990		51200	
ANNUAL RUNOFF (CFSM)	5.77		11.2		5.79	
ANNUAL RUNOFF (INCHES)	78.28		152.18		78.70	
10 PERCENT EXCEEDS	240		546		257	
50 PERCENT EXCEEDS	6.0		8.0		6.0	
90 PERCENT EXCEEDS	2.4		4.0		2.0	

\# See Period of Record
a From Apr. 11 to May 15
b From Mar. 23 to May 2
c For many days in the winter and spring during water years 1967, 1969, 1978, and 1991
d Backwater from snow and ice
e Estimated
f Occurred in early Jun. as a result of flow over ice

15484000 SALCHA RIVER NEAR SALCHAKET

LOCATION.--Lat 64°28'22", long 146°55'26", in NE$^1/_4$ sec. 22, T. 5 S., R. 4 E. (Big Delta B-6 quad), Fairbanks North Star Borough, Hydrologic Unit 19040505, on right bank 0.2 mi upstream from bridge on Richardson Highway, 0.5 mi east of Sno-Shu Inn, 2 mi upstream from mouth, and 6 mi southeast of Salchaket.

DRAINAGE AREA.--2,170 mi^2, approximately.

PERIOD OF RECORD.--July 1909 to August 1910, published as "at mouth" (no winter records), October 1948 to current year.

GAGE.--Water-stage recorder. Datum of gage is 631.85 ft above sea level. Prior to August 10, 1910, nonrecording gage at site 1.5 mi downstream at different datum. October 1, 1948, to April 24, 1953, nonrecording gage, and April 25, 1953 to October 16, 1967, water-stage recorder at site 800 ft downstream at same datum.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 10,000 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)
May 8	1600	*17,300	*13.78

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	2240	e1350	e780	e530	e340	e320	e300	2390	4160	1090	1570	1060
2	2230	e1400	e780	e520	e330	e320	e300	3510	3900	1080	1820	1060
3	2210	e1450	e760	e510	e330	e320	e300	4080	3880	1070	2380	1060
4	2190	e1400	e740	e500	e330	e320	e300	3270	6070	1050	2220	1100
5	2170	e1350	e730	e500	e330	e320	e300	3140	4720	1110	1990	1090
6	2110	e1280	e710	e490	e330	e320	e300	3520	3510	2040	1810	1070
7	2070	e1150	e700	e480	e320	e320	e300	6220	2900	2150	1670	1050
8	2020	e1000	e680	e470	e320	e320	e310	15300	2560	1790	1570	1030
9	1970	e900	e670	e460	e320	e315	e320	8530	2470	1530	1480	1020
10	1920	e800	e660	e460	e320	e315	e330	6120	4130	1400	1420	1010
11	1870	e700	e650	e450	e320	e315	e350	4630	4450	1330	1370	1000
12	1740	e580	e640	e440	e320	e315	e360	4750	3390	1260	1350	995
13	1680	e480	e630	e430	e320	e315	e380	9200	2730	1190	1320	991
14	1530	e450	e620	e420	e320	e315	e400	7260	2320	1120	1290	e990
15	e1350	e430	e620	e410	e320	e315	e430	5920	2130	1090	1260	e980
16	e1250	e420	e610	e400	e320	e315	e460	5690	2090	1080	1230	e970
17	e1150	e440	e610	e390	e320	e315	e490	5360	2010	1110	1220	e960
18	e1050	e460	e600	e380	e320	e315	e520	4950	1850	1140	1200	e950
19	e1000	e490	e600	e370	e320	e320	e570	3990	1690	1200	1180	e940
20	e950	e540	e600	e370	e320	e310	e630	3470	1570	1200	1170	e940
21	e1000	e580	e600	e360	e320	e310	e700	2710	1470	1200	1160	e970
22	e1050	e620	e590	e360	e320	e310	e770	2220	1390	1190	1140	e1000
23	e1100	e680	e590	e360	e320	e310	e860	2090	1330	1250	1130	1030
24	e1200	e720	e590	e350	e320	e310	e960	2350	1320	1760	1130	1030
25	e1300	e750	e590	e350	e320	e310	e1100	3280	1290	1890	1120	990
26	e1400	e780	e580	e350	e320	e310	e1300	5820	1240	1790	1110	937
27	e1500	e780	e580	e350	e320	e300	e1500	5690	e1200	1850	1110	958
28	e1450	e800	e570	e340	e320	e300	e1700	4470	1160	1720	1100	977
29	e1400	e800	e560	e340	e320	e300	1910	3890	1130	1590	1090	939
30	e1350	e800	e550	e340	---	e300	1860	4230	1110	1530	1080	917
31	e1300	---	e540	e340	---	e300	---	4860	---	1520	1060	---
TOTAL	48750	24380	19730	12820	9350	9700	20310	152910	75170	43320	42750	30014
MEAN	1573	813	636	414	322	313	677	4933	2506	1397	1379	1000
MAX	2240	1450	780	530	340	320	1910	15300	6070	2150	2380	1100
MIN	950	420	540	340	320	300	300	2090	1110	1050	1060	917
AC-FT	96700	48360	39130	25430	18550	19240	40280	303300	149100	85930	84790	59530
CFSM	0.72	0.37	0.29	0.19	0.15	0.14	0.31	2.27	1.15	0.64	0.64	0.46
IN.	0.84	0.42	0.34	0.22	0.16	0.17	0.35	2.62	1.29	0.74	0.73	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2004, BY WATER YEAR (WY)#

MEAN	1100	514	363	264	214	193	413	4249	3740	2653	3057	2487
MAX	1969	1028	730	471	449	377	1373	8666	8640	7330	13350	6186
(WY)	1994	1994	1994	1992	1994	1992	1993	1962	1964	1949	1967	1952
MIN	484	230	160	130	62.0	60.0	104	1564	963	568	717	636
(WY)	1959	1954	1954	1954	1953	1953	1974	1964	1969	1958	1966	1966

\# See Period of Record
e Estimated

15484000 SALCHA RIVER NEAR SALCHAKET—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1949 - 2004#	
ANNUAL TOTAL	675587		489204			
ANNUAL MEAN	1851		1337		1612	
HIGHEST ANNUAL MEAN					2957	1967
LOWEST ANNUAL MEAN					796	1999
HIGHEST DAILY MEAN	19700	Sep 3	15300	May 8	94100	Aug 14 1967
LOWEST DAILY MEAN	a280	Mar 29	b300	Mar 27	c60	Mar 1 1953
ANNUAL SEVEN-DAY MINIMUM	280	Mar 29	300	Mar 27	60	Mar 1 1953
MAXIMUM PEAK FLOW			17300	May 8	97000	Aug 14 1967
MAXIMUM PEAK STAGE			13.78	May 8	21.78	Aug 14 1967
ANNUAL RUNOFF (AC-FT)	1340000		970300		1168000	
ANNUAL RUNOFF (CFSM)	0.853		0.616		0.743	
ANNUAL RUNOFF (INCHES)	11.58		8.39		10.10	
10 PERCENT EXCEEDS	4450		2780		3940	
50 PERCENT EXCEEDS	1070		990		660	
90 PERCENT EXCEEDS	310		320		170	

\# See Period of Record
a From Mar. 29 to Apr. 9
b From Mar. 27 to Apr. 6
c Monthly mean published for Mar. 1953

15485500 TANANA RIVER AT FAIRBANKS

LOCATION.--Lat 64°47'34", long 147°50'20", in NE¼ SW¼ SW¼ sec. 25, T. 1 S., R. 2 W. (Fairbanks D-2 quad), Fairbanks North Star Borough, Hydrologic Unit 19040507, on right bank at the end of Groin No. 1 on Corps of Engineers flood-protection levee, 1.0 mi south of Fairbanks International Airport, and 1.0 mi upstream from Chena River.

DRAINAGE AREA.--Undefined. Part of river flows through Salchaket Slough and is ungaged.

PERIOD OF RECORD.--June 1973 to current year.

GAGE.--Water-stage recorder. Datum of gage is 400 ft above sea level. Prior to September 14, 1973, nonrecording gage, and September 14, 1973 to June 14, 1985, water-stage recorder, at site 2.8 mi upstream at same datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 16, 1967 reached a stage of 34.4 ft, from floodmarks at site then in use; discharge, about 125,000 ft³/s, contained in reports of the Corps of Engineers.

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	21700	e13500	e9600	e7800	e6600	e6200	e6100	17800	36100	67000	50200	31300
2	26100	e13000	e9400	e7800	e6600	e6200	e6100	19000	36600	61200	50900	30200
3	28700	e12500	e9200	e7800	e6600	e6200	e6100	20500	37600	59700	49800	28700
4	28500	e12500	e8800	e7600	e6600	e6200	e6100	21000	41900	59700	48600	27300
5	27900	e12500	e8600	e7600	e6400	e6200	e6100	21200	37600	60100	48800	25500
6	25700	e12000	e8600	e7400	e6400	e6200	e6100	22300	33900	62900	49600	23900
7	24100	e12000	e8400	e7400	e6400	e6200	e6100	25300	32800	60500	50500	22900
8	23800	e11500	e8400	e7200	e6400	e6200	e6100	36400	34300	57400	51100	22000
9	23400	e11000	e8200	e7200	e6400	e6200	e6100	48800	35900	57200	51200	20900
10	22700	e10000	e8200	e7200	e6400	e6200	e6100	40400	39400	56300	52400	19900
11	22000	e9500	e8200	e7000	e6400	e6200	e6200	35000	42800	54600	53000	19200
12	20900	e8500	e8200	e7000	e6400	e6200	e6300	32800	43100	53900	52400	18600
13	19900	e7600	e8000	e6900	e6400	e6200	e6500	35700	41200	54600	53000	18000
14	19300	e7200	e8000	e6900	e6300	e6200	e6700	38900	38200	57000	53000	18000
15	18700	e6800	e8000	e6900	e6300	e6200	e6900	35900	37900	58800	53000	17800
16	17800	e6800	e8000	e6900	e6300	e6100	e7100	34100	39300	59000	53600	17400
17	17300	e7000	e8000	e6900	e6300	e6100	e7400	34300	39800	58400	54600	16900
18	16800	e7400	e8000	e6900	e6300	e6100	e7900	34300	39700	60000	57200	16500
19	16000	e7600	e8000	e6900	e6200	e6100	e8500	32300	40100	60100	58400	16200
20	14600	e8000	e8000	e6900	e6200	e6100	e9000	30500	41500	59200	57600	15900
21	e14000	e8400	e8000	e6900	e6200	e6100	e9600	29100	44900	59700	57800	15400
22	e14000	e8600	e8000	e6700	e6200	e6100	e10500	28100	49200	60000	57700	15300
23	e14000	e9000	e8000	e6700	e6200	e6100	e11000	27400	52300	60200	57800	15300
24	e14500	e9200	e8000	e6700	e6200	e6100	e12000	28100	54000	57800	57100	15200
25	e15000	e9400	e8000	e6700	e6200	e6100	e12500	29500	56100	55300	53900	15000
26	e15500	e9600	e8000	e6700	e6200	e6100	e13500	32300	59200	55100	47900	14800
27	e15500	e9800	e8000	e6700	e6200	e6100	e14500	35800	62200	56100	41900	14800
28	e15000	e9800	e8000	e6600	e6200	e6100	e15500	36800	63500	56500	40800	14800
29	e14500	e9800	e8000	e6600	e6200	e6100	e16500	35900	65000	55400	39700	14600
30	e14000	e9800	e8000	e6600	---	e6100	17200	36200	67300	51900	36300	14300
31	e14000	---	e8000	e6600	---	e6100	---	36900	---	50000	33100	---
TOTAL	595900	290300	255800	217700	183700	190600	266300	972600	1343400	1795600	1572900	576600
MEAN	19220	9677	8252	7023	6334	6148	8877	31370	44780	57920	50740	19220
MAX	28700	13500	9600	7800	6600	6200	17200	48800	67300	67000	58400	31300
MIN	14000	6800	8000	6600	6200	6100	6100	17800	32800	50000	33100	14300
AC-FT	1182000	575800	507400	431800	364400	378100	528200	1929000	2665000	3562000	3120000	1144000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2004, BY WATER YEAR (WY)

MEAN	13960	7925	6276	5669	5473	5414	7497	22780	36320	52970	48920	27180
MAX	20840	12520	8252	7135	6700	6761	12700	36290	51350	66090	70080	44880
(WY)	2003	2003	2004	1986	1991	1993	1995	1991	1992	1992	1997	1990
MIN	8669	5000	4500	4016	3207	3100	4230	14810	25120	39550	34680	16950
(WY)	1997	1977	1977	1974	1974	1974	1974	1998	1978	1996	1996	1976

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1973 - 2004	
ANNUAL TOTAL	7204100		8261400			
ANNUAL MEAN	19740		22570		20210	
HIGHEST ANNUAL MEAN					22970	2002
LOWEST ANNUAL MEAN					16080	1996
HIGHEST DAILY MEAN	80500	Jul 18	67300	Jun 30	92400	Jul 22 1986
LOWEST DAILY MEAN	a6000	Jan 1	b6100	Mar 16	c3100	Feb 14 1974
ANNUAL SEVEN-DAY MINIMUM	6000	Jan 1	6100	Mar 16	3100	Feb 14 1974
MAXIMUM PEAK FLOW			68400	Jul 1	96400	Jul 22 1986
MAXIMUM PEAK STAGE			23.89	Jul 1	26.25	Aug 14 1997
ANNUAL RUNOFF (AC-FT)	14290000		16390000		14640000	
10 PERCENT EXCEEDS	42100		55600		50400	
50 PERCENT EXCEEDS	14500		14200		10000	
90 PERCENT EXCEEDS	6100		6200		5200	

\# See Period of Record, partial years used in monthly statistics
a From Jan. 1 to Feb. 4
b From Mar. 16 to Apr. 10
c From Feb. 14 to Mar. 31, 1974
e Estimated

15493000 CHENA RIVER NEAR TWO RIVERS

LOCATION.--Lat 64°54'10", long 146°21'25", in NE$^1/_4$ sec. 20, T. 1 N., R. 7 E. (Big Delta D-5 quad), Fairbanks North Star Borough, Hydrologic Unit 19040506, on left bank about 200 ft upstream from bridge at mi 39.5 on the Chena Hot Springs Highway, 15 mi upstream from South Fork Chena River, 22 mi east of Two Rivers, and 41 mi east of Fairbanks.

DRAINAGE AREA.--937 mi^2.

PERIOD OF RECORD.--October 1967 to current year.

GAGE.--Water-stage recorder. Datum of gage is 719.7 ft above sea level from datum used by Alaska Department of Transportation and Public Facilities. Prior to April 25, 1994, water stage recorder at site 2.5 mi downstream at datum of 700 ft.

REMARKS.--Records good except for estimated daily discharges, which are poor. Corps of Engineers meteor-burst and GOES satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 13, 1967 reached a stage of 26.6 ft at site and datum of gage in use prior to April 25, 1994, from floodmarks, discharge not determined.

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	1230	e450	e390	e270	e180	e160	e140	2020	1890	377	e670	423
2	1190	e480	e380	e260	e180	e160	e140	2120	1750	373	e1400	463
3	1170	e510	e370	e260	e180	e160	e140	1660	3060	370	1160	542
4	1150	e530	e360	e260	e180	e160	e140	1470	2460	366	966	541
5	1130	e530	e350	e250	e180	e160	e140	1590	1680	369	835	513
6	1090	e520	e340	e250	e170	e160	e150	1910	1310	505	748	493
7	1060	e510	e340	e250	e170	e160	e150	4310	1080	538	691	474
8	1020	e490	e330	e240	e170	e160	e160	4350	957	462	649	460
9	997	e480	e330	e240	e170	e160	e170	2320	898	452	614	449
10	984	e460	e330	e240	e170	e150	e180	1830	921	432	586	437
11	923	e420	e320	e240	e170	e150	e190	1700	847	412	568	426
12	879	e350	e320	e230	e170	e150	e210	2230	775	388	554	417
13	879	e290	e320	e230	e170	e150	e230	2700	710	368	543	411
14	765	e260	e310	e230	e170	e150	e260	2240	668	354	530	407
15	776	e240	e310	e230	e170	e150	e290	2110	667	366	519	401
16	742	e230	e310	e220	e170	e150	e330	2010	641	373	511	394
17	632	e230	e300	e220	e170	e150	e360	1800	610	366	502	388
18	&541	e240	e300	e210	e170	e150	e400	1510	571	362	494	379
19	e500	e250	e300	e210	e170	e150	e460	1410	536	375	493	371
20	e470	e270	e290	e200	e170	e150	e530	1180	508	381	484	368
21	e440	e290	e290	e200	e170	e150	e600	933	485	395	478	392
22	e420	e310	e290	e200	e170	e150	e680	815	466	472	474	404
23	e420	e330	e290	e200	e170	e150	e770	845	455	495	470	399
24	e430	e350	e290	e190	e170	e140	e850	1020	439	586	462	406
25	e450	e370	e280	e190	e170	e140	e920	1680	423	587	458	392
26	e480	e380	e280	e190	e170	e140	e1000	1810	410	691	452	382
27	e530	e390	e280	e190	e160	e140	e1050	1430	400	651	447	393
28	e540	e400	e280	e190	e160	e140	1120	1400	391	571	442	398
29	e520	e400	e270	e190	e160	e140	1210	1640	389	536	435	381
30	e480	e390	e270	e190	---	e140	1430	2000	384	541	430	375
31	e450	---	e270	e190	---	e140	---	2010	---	604	425	---
TOTAL	23288	11350	9690	6860	4950	4660	14400	58053	26781	14118	18490	12679
MEAN	751	378	313	221	171	150	480	1873	893	455	596	423
MAX	1230	530	390	270	180	160	1430	4350	3060	691	1400	542
MIN	420	230	270	190	160	140	140	815	384	354	425	368
AC-FT	46190	22510	19220	13610	9820	9240	28560	115100	53120	28000	36670	25150
CFSM	0.80	0.40	0.33	0.24	0.18	0.16	0.51	2.00	0.95	0.49	0.64	0.45
IN.	0.92	0.45	0.38	0.27	0.20	0.19	0.57	2.30	1.06	0.56	0.73	0.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2004, BY WATER YEAR (WY)#

MEAN	580	279	191	136	110	96.8	248	1857	1329	1063	1316	1168
MAX	1656	617	369	242	246	171	912	4210	4038	2505	3207	2739
(WY)	1987	1987	1994	1994	1994	1991	2003	1971	1992	1984	1969	2003
MIN	260	120	85.5	38.1	20.2	21.9	68.3	625	323	380	437	423
(WY)	1969	1969	1977	1970	1970	1970	1982	1998	1969	1976	1976	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1968 - 2004#	
ANNUAL TOTAL	359763		205319			
ANNUAL MEAN	986		561		702	
HIGHEST ANNUAL MEAN					1080	1971
LOWEST ANNUAL MEAN					398	1997
HIGHEST DAILY MEAN	14200	Jul 28	4350	May 8	17700	Jun 3 1992
LOWEST DAILY MEAN	a130	Apr 7	b140	Mar 24	c20	Feb 6 1970
ANNUAL SEVEN-DAY MINIMUM	133	Apr 5	140	Mar 24	20	Feb 6 1970
MAXIMUM PEAK FLOW			6640	May 8	20000	Jun 3 1992
MAXIMUM PEAK STAGE			19.37	May 8	d22.04	Jun 3 1992
					f23.56	Jul 28 2003
ANNUAL RUNOFF (AC-FT)	713600		407300		508300	
ANNUAL RUNOFF (CFSM)	1.05		0.599		0.749	
ANNUAL RUNOFF (INCHES)	14.28		8.15		10.17	
10 PERCENT EXCEEDS	2540		1200		1640	
50 PERCENT EXCEEDS	420		394		340	
90 PERCENT EXCEEDS	150		160		86	

\# See Period of Record and Remarks
a From Apr. 7 to Apr. 11
b From Mar. 24 to Apr. 5
c From Feb. 6 to Mar. 12, 1970
d At site and datum then in use
e Estimated
f At present gage site and datum, corresponds to a discharge of 16000 ft^3/s

15511000 LITTLE CHENA RIVER NEAR FAIRBANKS

LOCATION.--Lat 64°53'10", long 147°14'50", in SW¼ NE¼ sec. 25, T. 1 N., R. 2 E. (Fairbanks D-1 quad), Fairbanks North Star Borough, Hydrologic Unit 19040506, on downstream side of left bridge abutment at mi 11.9 Chena Hot Springs Highway, 22.5 mi upstream from mouth, and 14 mi northeast of Fairbanks.

DRAINAGE AREA.--372 mi^2.

PERIOD OF RECORD.--August 1966 to current year.

GAGE.--Water-stage recorder. Datum of gage is 458.79 ft above sea level.

REMARKS.--Records good except for estimated daily discharges, which are poor. Corps of Engineers Meteor-burst and NOAA telephone telemetry at station.

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	427	e250	e150	e105	e74	e68	e60	624	506	154	271	116
2	416	e230	e150	e105	e74	e68	e60	681	465	153	450	132
3	406	e210	e150	e100	e74	e68	e60	601	459	151	408	156
4	399	e200	e145	e98	e74	e68	e60	505	433	150	316	149
5	388	e190	e145	e96	e72	e68	e60	479	385	146	259	141
6	379	e180	e140	e94	e72	e68	e60	489	343	147	224	136
7	369	e170	e140	e92	e72	e68	e60	742	312	145	197	132
8	357	e160	e140	e90	e72	e68	e60	1120	294	140	181	128
9	346	e150	e135	e88	e72	e68	e60	752	298	138	169	125
10	341	e140	e135	e86	e72	e68	e60	593	289	138	161	122
11	332	e130	e130	e84	e72	e68	e62	506	277	136	157	121
12	320	e120	e130	e82	e72	e66	e64	487	267	132	154	119
13	310	e110	e130	e82	e72	e66	e66	498	264	128	150	117
14	288	e100	e130	e80	e72	e66	e68	456	263	126	144	117
15	e260	e100	e130	e80	e70	e66	e72	421	275	125	139	115
16	e230	e100	e130	e78	e70	e66	e74	404	282	127	136	112
17	e200	e110	e130	e78	e70	e66	e76	378	258	126	134	110
18	e180	e130	e130	e76	e70	e66	e80	352	238	123	133	108
19	e155	e150	e125	e76	e70	e66	e84	401	223	122	131	107
20	e145	e170	e125	e76	e70	e66	e90	426	210	123	129	109
21	e180	e180	e125	e76	e70	e66	e110	361	200	126	128	114
22	e210	e190	e125	e76	e70	e66	e130	e320	192	123	129	123
23	e230	e190	e125	e74	e70	e64	e150	e300	185	128	128	120
24	e245	e190	e120	e74	e70	e64	e180	e410	178	148	128	124
25	e250	e180	e120	e74	e70	e64	e210	629	172	149	125	121
26	e230	e180	e115	e74	e70	e62	e260	967	167	145	123	118
27	e200	e170	e115	e74	e70	e62	e350	751	163	137	123	122
28	e170	e170	e115	e74	e68	e60	e410	628	159	131	121	124
29	e145	e160	e110	e74	e68	e60	e480	574	158	128	119	115
30	e190	e160	e110	e74	---	e60	e560	619	155	141	119	115
31	e230	---	e105	e74	---	e60	---	593	---	225	118	---
TOTAL	8528	4870	4005	2564	2062	2030	4176	17067	8070	4311	5404	3668
MEAN	275	162	129	82.7	71.1	65.5	139	551	269	139	174	122
MAX	427	250	150	105	74	68	560	1120	506	225	450	156
MIN	145	100	105	74	68	60	60	300	155	122	118	107
AC-FT	16920	9660	7940	5090	4090	4030	8280	33850	16010	8550	10720	7280
CFSM	0.74	0.44	0.35	0.22	0.19	0.18	0.37	1.48	0.72	0.37	0.47	0.33
IN.	0.85	0.49	0.40	0.26	0.21	0.20	0.42	1.71	0.81	0.43	0.54	0.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2004, BY WATER YEAR (WY)#

MEAN	196	106	72.5	48.6	36.9	32.5	92.4	546	336	294	388	326
MAX	490	264	176	112	74.8	72.0	270	1217	932	665	2147	773
(WY)	1987	1994	1986	1987	2001	1993	1993	1991	1992	1981	1967	2003
MIN	69.8	32.0	22.5	7.90	6.00	3.23	19.1	147	99.2	85.0	124	107
(WY)	1967	1967	1978	1970	1970	1967	1970	1998	1998	1997	1997	1966

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1966 - 2004#	
ANNUAL TOTAL	99946		66755			
ANNUAL MEAN	274		182		209	
HIGHEST ANNUAL MEAN					414	1967
LOWEST ANNUAL MEAN					103	1997
HIGHEST DAILY MEAN	2900	Jul 29	1120	May 8	12000	Aug 13 1967
LOWEST DAILY MEAN	a55	Mar 18	b60	Mar 28	c0.00	Mar 11 1967
ANNUAL SEVEN-DAY MINIMUM	55	Mar 18	60	Mar 28	0.00	Mar 11 1967
MAXIMUM PEAK FLOW			1300	May 8	d17000	Aug 13 1967
MAXIMUM PEAK STAGE			19.30	May 8	31.95	Aug 13 1967
ANNUAL RUNOFF (AC-FT)	198200		132400		151100	
ANNUAL RUNOFF (CFSM)	0.736		0.490		0.561	
ANNUAL RUNOFF (INCHES)	9.99		6.68		7.62	
10 PERCENT EXCEEDS	667		405		475	
50 PERCENT EXCEEDS	150		130		120	
90 PERCENT EXCEEDS	60		68		25	

\# See Period of Record; partial years used in monthly statistics
a From Mar. 18 to Apr. 11
b From Mar. 28 to Apr. 10
c From Mar. 11 to Apr. 15, 1967
d From rating curve extended above 3,000 ft^3/s on basis of contracted-opening determination of peak flow
e Estimated

15514000 CHENA RIVER AT FAIRBANKS

LOCATION.--Lat 64°50'45", long 147°42'04", in NW$^1/_4$ sec. 11, T. 1 S., R. 1 W. (Fairbanks D-2 quad), Fairbanks North Star Borough, Hydrologic Unit 19040506, on right bank 100 ft downstream from Steese Highway Bridge, 800 ft upstream from Wendell Street bridge, 0.3 mi upstream from Noyes Slough, 11 mi upstream from mouth, and 11 mi downstream from Chena Slough.

DRAINAGE AREA.--1,995 mi^2.

PERIOD OF RECORD.--July 1947 to September 1948 (no winter records), October 1948 to current year.

GAGE.--Water-stage recorder and supplementary gage. Datum of gage is 422.92 ft above sea level. Supplementary gage, Chena River at Lathrop Street (15514003), 1.6 mi downstream on left bank, used during winter period. See WSP 1936 and 2136 for history of changes prior to April 27, 1968.

REMARKS.--Records are good except for estimated daily discharges, which are fair. Regulation during high-flow periods began July 9, 1981 at Moose Creek Dam 31.8 mi upstream. Flows were not regulated this year. GOES satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD--Outstanding floods occurred in early May 1905 and 1911, late August 1930, and May 11-14, 1937. See WDR AK-90-1 for more information.

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	2440	e1120	e890	e600	e430	e375	e330	2520	3000	970	1120	829
2	2420	e1240	e870	e590	e420	e375	e330	2980	3060	959	1220	839
3	2390	e1340	e850	e580	e420	e375	e330	3180	3000	947	1590	854
4	2330	e1320	e820	e580	e410	e370	e330	2860	3600	933	1730	894
5	2270	e1290	e800	e570	e410	e370	e330	2550	3690	928	1600	928
6	2230	e1270	e780	e570	e400	e365	e340	2510	3020	917	1480	924
7	2190	e1240	e770	e560	e400	e365	e360	2780	2560	930	1370	910
8	2130	e1200	e760	e560	e390	e365	e360	4850	2270	1050	1280	895
9	2070	e1100	e760	e550	e390	e360	e380	6350	2110	1050	1210	876
10	2020	e930	e750	e550	e380	e360	e390	4470	2020	1000	1160	863
11	1980	e820	e740	e530	e380	e360	e420	3720	1980	968	1110	854
12	1930	e730	e730	e520	e380	e360	e450	3300	1920	941	1070	838
13	1870	e600	e720	e510	e380	e365	e470	3340	1800	916	1050	828
14	1830	e500	e710	e500	e380	e370	e500	3680	1690	890	1030	833
15	1760	e470	e700	e500	e380	e375	e510	3370	1600	867	1010	822
16	1670	e460	e690	e500	e380	e370	e530	3140	1540	860	987	814
17	1520	e490	e690	e500	e380	e365	e580	2990	1490	854	967	800
18	1400	e510	e680	e490	e380	e360	e680	2810	1410	841	956	785
19	1300	e560	e680	e480	e380	e360	e760	2600	1360	832	942	774
20	e1120	e610	e680	e470	e380	e355	e820	2490	1310	827	933	768
21	e1050	e660	e680	e460	e380	e355	e970	2330	1250	832	919	774
22	e1020	e720	e680	e450	e380	e350	e1000	2100	1200	836	908	783
23	e1000	e760	e680	e450	e380	e350	e1050	1930	1170	872	899	808
24	e1030	e790	e680	e450	e380	e345	e1200	1860	1130	912	890	811
25	e1120	e830	e680	e450	e380	e345	e1400	2000	1090	947	883	815
26	e1280	e850	e680	e450	e380	e340	e1600	2690	1060	983	872	820
27	e1370	e860	e680	e440	e380	e340	e1800	3110	1030	1010	866	806
28	e1290	e880	e670	e440	e380	e335	e2000	2860	1000	1040	853	800
29	e1200	e890	e660	e440	e380	e335	e2200	2710	988	1020	838	803
30	e1150	e900	e650	e430	---	e330	2330	2770	978	1000	832	802
31	e1100	---	e630	e430	---	e330	---	2970	---	1010	827	---
TOTAL	51480	25940	22440	15600	11270	11075	24750	93820	55326	28942	33402	24950
MEAN	1661	865	724	503	389	357	825	3026	1844	934	1077	832
MAX	2440	1340	890	600	430	375	2330	6350	3690	1050	1730	928
MIN	1000	460	630	430	380	330	330	1860	978	827	827	768
MED	1670	840	690	500	380	360	520	2860	1570	933	987	821
AC-FT	102100	51450	44510	30940	22350	21970	49090	186100	109700	57410	66250	49490
CFSM	0.83	0.43	0.36	0.25	0.19	0.18	0.41	1.52	0.92	0.47	0.54	0.42
IN.	0.96	0.48	0.42	0.29	0.21	0.21	0.46	1.75	1.03	0.54	0.62	0.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2004, BY WATER YEAR (WY)#

MEAN	1209	602	455	347	287	264	479	3613	2520	2035	2492	2191
MAX	2413	1231	922	595	509	445	1406	10250	6721	6133	13120	5735
(WY)	1962	1994	1994	1987	1968	1968	1993	1948	1949	1949	1967	1962
MIN	461	297	194	163	120	120	209	1050	816	665	682	615
(WY)	1967	1959	1977	1977	1953	1958	1977	1998	1969	1958	1957	1957

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1948 - 2004#	
ANNUAL TOTAL	620174		398995			
ANNUAL MEAN	1699		1090		1360	
HIGHEST ANNUAL MEAN					2603	1962
LOWEST ANNUAL MEAN					713	1958
HIGHEST DAILY MEAN	10200	Jul 30	6350	May 9	64600	Aug 15 1967
LOWEST DAILY MEAN	a340	Apr 7	b330	Mar 30	c120	Feb 1 1953
ANNUAL SEVEN-DAY MINIMUM	346	Apr 3	330	Mar 30	120	Feb 1 1953
MAXIMUM PEAK FLOW			6780	May 9	74400	Aug 15 1967
MAXIMUM PEAK STAGE			6.92	May 9	d18.82	Aug 15 1967
ANNUAL RUNOFF (AC-FT)	1230000		791400		985600	
ANNUAL RUNOFF (CFSM)	0.852		0.546		0.682	
ANNUAL RUNOFF (INCHES)	11.56		7.44		9.27	
10 PERCENT EXCEEDS	4220		2350		3070	
50 PERCENT EXCEEDS	880		846		725	
90 PERCENT EXCEEDS	416		375		240	

\# See Period of Record
a April 7 to 9
b March 30 to April 5
c Monthly means published for Feb. 1953 and Mar. 1958
d Site then in use
e Estimated

15515500 TANANA RIVER AT NENANA

LOCATION.--Lat 64°33'55", long 149°05'30", in SE$^1/_4$ sec. 14, T. 4 S., R. 8 W. (Fairbanks C-5 quad), Hydrologic Unit 19040507, on left bank on east end of Alaska Railroad dock in Nenana, and 0.3 mi upstream from Nenana River.

DRAINAGE AREA.--25,600 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1962 to current year.

REVISED RECORDS.--WSP 2136: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 338.50 ft above sea level. Prior to March 10, 1965, on right bank 280 ft downstream from railroad bridge 0.5 mi upstream at present datum. March 10, 1965 to March 23, 1968, nonrecording gage on railroad bridge 0.5 mi upstream at present datum.

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

EXTREMES OUTSIDE PEROD OF RECORD.--Flood of May 1948 reached a stage of 15.9 ft, discharge, about 135,000 ft^3/s, contained in reports of Corps of Engineers.

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	22500	e16000	e12000	e9200	e7200	e6700	e6600	22800	54300	70800	57100	41800
2	29100	e14000	e12000	e9200	e7200	e6700	e6600	25000	53900	67900	59900	41000
3	34900	e14000	e11500	e9000	e7200	e6700	e6600	27500	52300	65200	60100	40300
4	37300	e13500	e11500	e8800	e7200	e6700	e6600	29800	53500	65100	57800	38900
5	38800	e13500	e11000	e8600	e7200	e6700	e6600	30600	53300	64400	56800	36600
6	36300	e13500	e11000	e8400	e7000	e6700	e6600	32300	49000	66400	56900	33100
7	32500	e13000	e10500	e8200	e7000	e6700	e6600	38800	46100	66600	57700	31500
8	30800	e13000	e10500	e8200	e7000	e6700	e6600	50100	46800	63700	58000	29700
9	30200	e12500	e10000	e8000	e7000	e6700	e6600	63900	48700	62600	58000	27800
10	29100	e12500	e10000	e8000	e7000	e6700	e6600	62400	50700	62000	58600	26400
11	27700	e12000	e9800	e8000	e7000	e6700	e6600	52900	53400	60900	58900	25200
12	26000	e11500	e9600	e7800	e7000	e6700	e6700	48300	55800	60100	58300	24200
13	24400	e10000	e9600	e7800	e7000	e6700	e6900	47500	55200	60500	57700	23500
14	23300	e8500	e9400	e7700	e7000	e6700	e7300	51700	52000	62300	58400	23300
15	22300	e8000	e9400	e7700	e6900	e6700	e7800	51300	50400	64100	58100	23400
16	21400	e7800	e9400	e7700	e6900	e6700	e8300	48800	50900	64300	58700	22500
17	19400	e7800	e9400	e7600	e6900	e6600	e8900	47500	52100	63700	59900	21700
18	18700	e8200	e9400	e7600	e6900	e6600	e9400	45800	52700	63600	61400	21000
19	18600	e8600	e9400	e7600	e6900	e6600	e10000	43500	52500	64200	62300	20300
20	17500	e9000	e9400	e7600	e6800	e6600	e11000	40400	53400	63700	62300	19700
21	17200	e9500	e9400	e7600	e6800	e6600	e12000	38500	54900	63600	61700	19400
22	16200	e10000	e9400	e7600	e6800	e6600	e13000	37300	56500	64300	60700	19100
23	16200	e10500	e9400	e7400	e6800	e6600	e14000	36700	58300	64600	60600	19200
24	15800	e11000	e9400	e7400	e6800	e6600	e15000	37500	60100	63900	60800	19200
25	16500	e11000	e9400	e7400	e6800	e6600	e16000	40100	61000	61500	58700	18900
26	17000	e11500	e9400	e7400	e6800	e6600	e17000	43800	63500	60600	55600	18400
27	e17500	e11500	e9400	e7400	e6800	e6600	e18500	49900	66300	61600	51500	18500
28	e17500	e12000	e9400	e7400	e6800	e6600	e20000	53000	67900	62100	50000	18500
29	e17500	e12000	e9400	e7200	e6800	e6600	e21500	51600	69200	62500	50300	18000
30	e17000	e12000	e9400	e7200	---	e6600	e21000	51000	70300	59900	47900	17600
31	e17000	---	e9400	e7200	---	e6600	---	53500	---	57500	44400	---
TOTAL	726200	337900	308200	243900	201500	206200	316900	1353800	1665000	1964200	1779100	758700
MEAN	23430	11260	9942	7868	6948	6652	10560	43670	55500	63360	57390	25290
MAX	38800	16000	12000	9200	7200	6700	21500	63900	70300	70800	62300	41800
MIN	15800	7800	9400	7200	6800	6600	6600	22800	46100	57500	44400	17600
MED	21400	11500	9400	7700	6900	6700	8050	45800	53500	63700	58300	22900
AC-FT	1440000	670200	611300	483800	399700	409000	628600	2685000	3303000	3896000	3529000	1505000
CFSM	0.92	0.44	0.39	0.31	0.27	0.26	0.41	1.71	2.17	2.48	2.24	0.99
IN.	1.06	0.49	0.45	0.35	0.29	0.30	0.46	1.97	2.42	2.85	2.59	1.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2004, BY WATER YEAR (WY)#

MEAN	17290	9475	7504	6804	6580	6508	8800	31180	47470	60170	56960	33520
MAX	26870	14460	10770	9065	8171	8161	15090	62210	87390	76770	98210	57690
(WY)	2001	2003	1986	1986	1986	1993	1995	1963	1962	1988	1967	1990
MIN	11420	5517	4532	4694	4421	4071	5870	16030	29750	44920	41510	21710
(WY)	1977	1977	1977	1977	1974	1974	1974	1964	1970	1996	1996	1976

\# See Period of Record, partial years used in monthly statistics
e Estimated

15515500 TANANA RIVER AT NENANA—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1962 - 2004#	
ANNUAL TOTAL	9054700		9861600			
ANNUAL MEAN	24810		26940		24270	
HIGHEST ANNUAL MEAN					29310	1967
LOWEST ANNUAL MEAN					19530	1970
HIGHEST DAILY MEAN	96800	Jul 30	70800	Jul 1	183000	Aug 18 1967
LOWEST DAILY MEAN	a7700	Mar 24	b6600	Mar 17	c4000	Mar 6 1974
ANNUAL SEVEN-DAY MINIMUM	7700	Mar 24	6600	Mar 17	4000	Mar 6 1974
MAXIMUM PEAK FLOW			71900	Jul 1	186000	Aug 18 1967
MAXIMUM PEAK STAGE			9.97	Jul 1	d18.90	Aug 18 1967
ANNUAL RUNOFF (AC-FT)	17960000		19560000		17580000	
ANNUAL RUNOFF (CFSM)	0.969		1.05		0.948	
ANNUAL RUNOFF (INCHES)	13.16		14.33		12.88	
10 PERCENT EXCEEDS	54900		61100		58300	
50 PERCENT EXCEEDS	17000		17000		12000	
90 PERCENT EXCEEDS	7800		6700		6200	

\# See Period of Record, partial years used in monthly statistics
a From Mar. 24 to Apr. 13
b From Mar. 17 to Apr. 11
c From Mar. 6 to Mar. 20, 1974
d At site then in use
e Estimated

15515500 TANANA RIVER AT NENANA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-57, 1963-64, 1966-75, 1978-1995, and 2001 to current year.

PERIOD OF RECORD.--
WATER TEMPERATURE: 1954 to 1956 (seasonal).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Sample location, cross section ft from rt bank (72103)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
MAR								
30...	1600	150.0	--	7.6	.0	753	10.3	--
30...	1620	295.0	--	7.6	.0	753	10.3	--
30...	1640	430.0	313	7.5	.0	753	10.3	71
30...	1700	570.0	--	7.6	.0	753	10.3	--
30...	1720	765.0	--	7.5	.0	753	10.3	--
MAY								
28...	1230	244.0	198	7.8	12.9	745	10.2	99
28...	1232	299.0	198	7.8	12.9	745	10.2	99
28...	1234	381.0	198	7.8	12.9	745	10.2	99
28...	1236	473.0	197	7.8	12.8	745	10.2	99
28...	1238	556.0	198	7.8	12.8	745	10.2	99
JUN								
10...	1240	205.0	225	7.9	14.5	751	9.7	97
10...	1245	322.0	238	7.9	14.6	751	9.4	94
10...	1250	411.0	238	7.9	14.6	751	9.4	94
10...	1255	492.0	239	7.9	14.6	751	9.5	95
10...	1300	571.0	238	7.9	14.6	751	9.4	94
25...	1600	286.0	217	7.9	20.2	758	8.9	99
25...	1605	422.0	215	7.9	20.2	758	8.9	99
25...	1610	539.0	213	7.9	20.2	758	8.9	99
25...	1615	636.0	214	7.9	20.2	758	8.9	99
25...	1620	741.0	213	7.9	20.2	758	9.3	103
JUL								
23...	1500	171.0	209	7.9	14.9	755	10.0	100
23...	1510	274.0	209	7.9	14.9	755	9.9	99
23...	1520	376.0	209	7.9	14.9	755	9.9	98
23...	1530	499.0	209	7.9	14.9	755	9.8	98
23...	1540	670.0	209	7.9	14.9	755	9.7	97
AUG								
26...	1500	176.0	236	7.8	10.3	753	8.5	77
26...	1505	289.0	236	7.8	10.3	753	8.7	78
26...	1510	352.0	236	7.8	10.7	753	8.3	76
26...	1515	455.0	236	7.8	10.7	753	8.9	81
26...	1520	635.0	236	7.8	10.7	753	9.2	84
SEP								
22...	1540	155.0	284	7.7	4.3	--	11.8	--
22...	1542	270.0	284	7.8	4.3	--	11.9	--
22...	1544	350.0	284	7.8	4.3	--	11.9	--
22...	1546	340.0	284	7.8	4.4	--	11.8	--

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)
MAR													
30...	1750	9	7	920	--	6560	20	3060	30	313	7.9	-6.5	.0
MAY													
28...	1200	9	9	696	7.76	52500	20	3055	1	198	7.8	--	12.9
JUN													
10...	1310	9	9	707	7.51	50900	20	3055	1	238	7.9	--	14.6
25...	1635	9	9	935	8.79	58800	20	3055	1	214	7.9	28.5	20.2
JUL													
23...	1610	9	9	925	9.15	66200	20	3055	10	209	7.9	--	14.9
AUG													
26...	1530	9	9	910	8.07	55400	20	3055	10	236	7.8	12.0	10.7
SEP													
22...	1600	9	9	785	3.19	18800	20	3055	10	284	7.8	--	4.3

15515500 TANANA RIVER AT NENANA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)
MAR													
30...	4	.0241	.0177	756	10.1	69	160	48.5	10.1	4.70	2.4	151	.0
MAY													
28...	336	.1914	.1427	745	10.2	99	100	29.1	6.70	3.33	1.9	96	.0
JUN													
10...	448	.0753	.0555	751	9.4	94	110	31.9	7.38	3.79	2.0	92	.0
25...	1260	.0307	.0224	758	9.0	100	110	31.1	8.26	3.67	2.80	101	.0
JUL													
23...	1200	.0163	.0122	754	9.8	98	110	32.1	6.33	3.28	2.2	82	.0
AUG													
26...	1130	.0150	.0110	753	8.4	76	78	22.5	5.35	2.77	1.4	87	.0
SEP													
22...	68	.0392	.0281	--	11.8	--	150	42.9	9.47	5.05	1.9	137	.0

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Alkalinity, wat flt fxd end field, mg/L as CaCO3 (39036)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
MAR													
30...	124	120	35.3	1.35	<.17	15.8	204	194	.002	.182	.049	.1	.1
MAY													
28...	74	74	32.5	1.93	<.17	7.51	125	131	.002	.099	<.010	.6	.2
JUN													
10...	76	76	36.6	2.18	<.17	7.80	124	138	.002	.090	<.010	.5	E.08
25...	83	84	37.4	1.6	<.17	6.46	136	141	E.001	.067	<.010	.9	<.1
JUL													
23...	67	67	37.2	1.48	<.17	6.33	123	129	<.002	.062	<.010	.7	<.1
AUG													
26...	72	71	42.5	1.28	<.17	4.56	134	124	.002	.064	E.007	.6	<.1
SEP													
22...	113	110	41.7	1.60	<.17	11.7	190	183	E.001	.123	.028	.2	E.07

Date	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)
MAR													
30...	.023	E.003	<.006	E.9	E.1	.6	50.7	<.06	27	<.04	<.8	.272	1.0
MAY													
28...	.773	.006	E.004	20.6	.3	1.0	31.2	<.06	23	E.02	<.8	.158	4.8
JUN													
10...	1.31	E.003	<.006	20.2	.3	1.0	36.0	<.06	22	<.04	<.8	.125	1.8
25...	1.19	<.004	<.006	27	.60	1.1	36.0	<.06	30	<.04	<.8	.111	1.1
JUL													
23...	.39	E.003	<.006	18.7	.4	.8	30.3	<.06	19	<.04	<.8	.130	.8
AUG													
26...	.53	<.004	<.006	15.2	.2	.5	21.3	<.06	16	E.02	<.8	.170	1.7
SEP													
22...	.22	E.004	<.006	6.6	.2	1.0	39.9	<.06	29	E.03	<.8	.233	1.1

15515500 TANANA RIVER AT NENANA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Mangan-ese, water, fltrd, ug/L (01056)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront-ium, water, fltrd, ug/L (01080)	Vanad-ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Organic carbon, water, fltrd, mg/L (00681)
MAR													
30...	10.8	<.08	3.4	105	1.3	1.49	.9	<.20	202	1.89	2.4	.89	1.4
MAY													
28...	43.7	<.08	3.9	9.8	.9	1.69	E.4	<.20	123	.66	.8	.75	5.9
JUN													
10...	10.3	<.08	4.8	6.3	1.0	.96	.5	<.20	146	.50	E.3	.93	2.7
25...	<6.4	.05	6.2	2.0	1.5	.06	.6	<.2	141	.6	--	.97	1.2
JUL													
23...	<6.4	<.08	4.5	2.4	1.2	1.41	.5	<.20	127	.58	<.6	.71	.7
AUG													
26...	<6.4	E.06	3.2	10.9	.9	1.48	.5	<.20	85.8	.37	3.5	.61	.8
SEP													
22...	21.2	<.08	4.2	53.4	1.3	1.19	.6	<.20	181	.98	.7	.83	1.6

Date	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Total carbon, suspnd sedimnt total, mg/L (00694)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)
MAR							
30...	<.12	.271	.273	<.022	16	283	74
MAY							
28...	.870	5.05	5.92	.349	1300	184000	53
JUN							
10...	1.97	4.38	6.34	.311	1270	175000	55
25...	E3.32	E6.61	E9.93	E.483	2990	474000	82
JUL							
23...	1.16	4.60	5.76	.327	2630	470000	78
AUG							
26...	.215	1.10	1.31	.108	2610	390000	75
SEP							
22...	.194	1.67	1.86	.095	399	20300	59

15518040 NENANA RIVER AT HEALY

LOCATION.--Lat 63°51'15", long 148°57'20", in SE $^{1}/_{4}$ sec. 20, T. 12 S., R. 7 W. (Healy D-4 quad), Denali Borough, Hydrologic Unit 19040508, on left bank upstream side of Healy Spur railroad bridge, 0.3 mi east of Parks Hwy in Healy, 0.4 mi downstream from Healy Creek, and 4 mi upstream of Lignite Creek.

DRAINAGE AREA.--2,100 mi^2.

PERIOD OF RECORD.--April 1990 to September 1991 (year-round), May 2003 to September 2004 (no winter record).

GAGE.--Water-stage-recorder. Datum of gage is 1244.17 ft above NGVD of 1929. Prior to Sept. 26, 1990, non-recording gage site 60 ft downstream at same datum. A National Weather Service wire-weight is attached to the down-stream edge of the highway bridge and was established in June 1972.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 31,200 ft^3/s, September 15, 1990, gage height, 14.4 ft, from flood marks; minimum daily not determined, occurred during period of ice effect.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge 12,100 ft^3/s, October 4, 2003, gage height, 11.70 ft; minimum daily not determined, occurred 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	6300	---	---	---	---	---	---	e2500	8270	7590	7530	3790
2	7270	---	---	---	---	---	---	e2400	7720	7430	7780	3880
3	7490	---	---	---	---	---	---	e2600	7100	7990	6950	4010
4	10600	---	---	---	---	---	---	e3000	6970	7530	6510	3500
5	8290	---	---	---	---	---	---	e5000	6970	7660	6510	3000
6	7090	---	---	---	---	---	---	e7000	7060	7810	6680	2750
7	6350	---	---	---	---	---	---	e10000	7920	7450	6850	2600
8	5960	---	---	---	---	---	---	e9800	8510	7460	6760	2530
9	5300	---	---	---	---	---	---	e9100	8450	7160	6650	2490
10	4910	---	---	---	---	---	---	7400	8220	6830	6530	2480
11	4580	---	---	---	---	---	---	5640	8500	6430	6410	2490
12	4260	---	---	---	---	---	---	5960	8290	6540	6240	2470
13	3980	---	---	---	---	---	---	6360	7580	7200	6210	2540
14	3880	---	---	---	---	---	---	6420	7510	7740	6320	2510
15	3920	---	---	---	---	---	---	6980	7560	7600	6130	2430
16	3650	---	---	---	---	---	---	7040	7780	7280	6730	2300
17	3140	---	---	---	---	---	---	6280	8030	7150	7300	2160
18	2770	---	---	---	---	---	---	5320	8320	7000	6890	2070
19	2710	---	---	---	---	---	---	4650	8300	6880	6700	2050
20	e2600	---	---	---	---	---	---	4320	8630	6820	6710	2050
21	e2500	---	---	---	---	---	---	4390	8660	7250	6140	2170
22	2380	---	---	---	---	---	---	4730	8320	7150	6120	2160
23	2370	---	---	---	---	---	---	5210	8170	7070	6140	2280
24	e2400	---	---	---	---	---	---	6270	8170	6500	5700	2220
25	e2300	---	---	---	---	---	---	6940	8480	6110	5060	2000
26	e2200	---	---	---	---	---	---	7090	8750	6210	4740	2190
27	e2100	---	---	---	---	---	---	7300	9040	6570	5550	2770
28	e2000	---	---	---	---	---	---	7150	9140	6690	5500	2410
29	2180	---	---	---	---	---	---	6930	9060	6590	4760	2070
30	2090	---	---	---	---	---	---	7630	9030	6520	4410	2100
31	2540	---	---	---	---	---	---	7700	---	6190	4010	---
TOTAL	130110	---	---	---	---	---	---	189110	244510	218400	192520	76470
MEAN	4197	---	---	---	---	---	---	6100	8150	7045	6210	2549
MAX	10600	---	---	---	---	---	---	10000	9140	7990	7780	4010
MIN	2000	---	---	---	---	---	---	2400	6970	6110	4010	2000
AC-FT	258100	---	---	---	---	---	---	375100	485000	433200	381900	151700
CFSM	2.00	---	---	---	---	---	---	2.90	3.88	3.35	2.96	1.21
IN.	2.30	---	---	---	---	---	---	3.35	4.33	3.87	3.41	1.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2004, BY WATER YEAR (WY)#

MEAN	4055	1407	1123	965	925	826	828	5890	10620	10380	8808	6777
MAX	4197	1407	1123	965	925	826	828	8945	14370	13410	11230	13440
(WY)	2004	1991	1991	1991	1991	1991	1991	1990	1990	2003	1990	1990
MIN	3913	1407	1123	965	925	826	828	2811	8150	7045	6210	2549
(WY)	1991	1991	1991	1991	1991	1991	1991	2003	2004	2004	2004	2004

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

15518080 LIGNITE CREEK ABOVE MOUTH NEAR HEALY

LOCATION.--Lat 63°54'17", long 148°59'01", in SE¼ NE¼ sec. 6, T. 11 S., R. 7 W. (Healy D-4 quad), Hydrologic Unit 19040508, on right bank 300 ft downstream from culverts on access road to Usibelli Coal Mine office, 1,000 ft upstream from mouth, and 3.5 mi north of Healy.

DRAINAGE AREA.--48.1 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1985 to September 2004 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 1,300 ft above sea level, from topographic map. Prior to May 22, 1987 on left bank, 400 ft upstream at same datum. From May 22, 1987 to September 30, 1997 on left bank, 300 ft upstream at same datum.

REMARKS.--Records fair except for the period April 26 to September 30 1998 and 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.

REVISIONS.--Revised daily discharges in cubic feet per second for water years 1998 to 2001 are given below. These figures supersede those published in reports AK-98-1, AK-99-1, AK-00-1 and AK-01-1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1997 TO SEPTEMBER 1998
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e30	e18	e16	e9.3	e6.5	e5.5	e8.0	16	44	63	58	59
2	e31	e18	e15	e9.3	e6.3	e5.5	e7.8	18	45	53	52	48
3	e30	e18	e15	e9.0	e6.3	e5.5	e7.8	16	40	49	47	36
4	e29	e18	e15	e9.0	e6.3	e5.5	e8.0	15	38	33	41	33
5	e29	e19	e15	e9.0	e6.3	e5.5	e8.5	22	35	32	34	27
6	e28	e19	e14	e8.8	e6.3	e5.5	e9.0	37	33	51	34	28
7	e27	e20	e14	e8.8	e6.0	e5.5	e10	45	32	68	31	30
8	e26	e21	e14	e8.5	e6.0	e5.5	e11	37	33	52	53	27
9	e26	e22	e14	e8.5	e6.0	e5.5	e13	25	27	41	197	25
10	e25	e23	e13	e8.3	e6.0	e5.5	e14	24	29	39	114	25
11	e25	e24	e13	e8.3	e6.0	e5.3	e16	21	24	41	93	24
12	e24	e25	e13	e8.0	e6.0	e5.3	e18	19	23	48	71	24
13	e24	e25	e13	e8.0	e6.0	e5.3	e20	18	23	39	66	32
14	e23	e25	e12	e8.0	e6.0	e5.3	e23	21	28	36	60	39
15	e23	e24	e12	e7.8	e5.8	e5.3	e27	25	83	34	98	45
16	e23	e23	e12	e7.8	e5.8	e5.5	e31	30	53	31	64	49
17	e22	e22	e12	e7.5	e5.8	e5.8	e35	40	58	49	67	48
18	e22	e22	e12	e7.5	e5.8	e6.2	e41	45	58	79	84	41
19	e21	e21	e11	e7.5	e5.8	e6.5	e48	38	41	40	96	38
20	e21	e21	e11	e7.3	e5.8	e7.0	e60	33	34	37	70	37
21	e21	e20	e11	e7.3	e5.8	e8.0	e50	31	34	32	57	42
22	e20	e20	e11	e7.3	e5.5	e9.0	e40	59	56	29	55	38
23	e20	e19	e11	e7.0	e5.5	e10	e35	135	49	115	46	36
24	e20	e19	e10	e7.0	e5.5	e11	e30	74	52	143	49	35
25	e20	e18	e10	e7.0	e5.5	e13	e25	77	91	112	67	33
26	e19	e18	e10	e6.8	e5.5	e14	21	77	87	95	70	30
27	e19	e17	e10	e6.8	e5.5	e15	24	75	47	91	74	27
28	e19	e17	e10	e6.8	e5.5	e14	26	72	41	118	85	24
29	e19	e16	e9.8	e6.8	---	e12	16	63	43	127	90	21
30	e18	e16	e9.8	e6.5	---	e11	16	66	74	99	64	20
31	e18	---	e9.5	e6.5	---	e9.0	---	56	---	76	68	---
TOTAL	722	608	378.1	242.0	165.1	238.5	699.1	1330	1355	1952	2155	1021
MEAN	23.3	20.3	12.2	7.81	5.90	7.69	23.3	42.9	45.2	63.0	69.5	34.0
MAX	31	25	16	9.3	6.5	15	60	135	91	143	197	59
MIN	18	16	9.5	6.5	5.5	5.3	7.8	15	23	29	31	20
AC-FT	1430	1210	750	480	327	473	1390	2640	2690	3870	4270	2030
CFSM	0.48	0.42	0.25	0.16	0.12	0.16	0.48	0.89	0.94	1.31	1.45	0.71
IN.	0.56	0.47	0.29	0.19	0.13	0.18	0.54	1.03	1.05	1.51	1.67	0.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1998, BY WATER YEAR (WY)#

MEAN	23.4	15.8	11.8	9.77	8.11	8.26	24.7	81.2	69.6	45.0	46.8	41.8
MAX	47.4	25.4	20.0	18.7	20.6	19.1	45.5	166	145	77.0	96.8	134
(WY)	1994	1994	1987	1995	1994	1994	1994	1992	1989	1986	1986	1990
MIN	10.3	4.87	1.65	0.95	0.00	0.00	0.00	42.6	41.9	25.6	25.7	17.6
(WY)	1988	1988	1988	1986	1986	1986	1986	1987	1997	1996	1994	1987

\# See Period of Record, partial years used in monthly statistics
e Estimated

15518080 LIGNITE CREEK ABOVE MOUTH NEAR HEALY—Continued

SUMMARY STATISTICS	FOR 1997 CALENDAR YEAR		FOR 1998 WATER YEAR		WATER YEARS 1985 - 1998#	
ANNUAL TOTAL	10339.1		10865.8			
ANNUAL MEAN	28.3		29.8		31.8	
HIGHEST ANNUAL MEAN					43.6	1990
LOWEST ANNUAL MEAN					23.8	1987
HIGHEST DAILY MEAN	236	May 30	197	Aug 9	852	Jun 25 1989
LOWEST DAILY MEAN	a2.0	Mar 19	b5.3	Mar 11	c0.00	Feb 1 1986
ANNUAL SEVEN-DAY MINIMUM	2.0	Mar 19	5.4	Mar 9	0.00	Feb 1 1986
MAXIMUM PEAK FLOW			285	May 22	d2400	Aug 21 1986
MAXIMUM PEAK STAGE			3.97	May 22	f1.05	Aug 21 1986
MAXIMUM PEAK STAGE			g4.62	Apr 20		
ANNUAL RUNOFF (AC-FT)	20510		21550		23010	
ANNUAL RUNOFF (CFSM)	0.589		0.619		0.660	
ANNUAL RUNOFF (INCHES)	8.00		8.40		8.97	
10 PERCENT EXCEEDS	62		66		65	
50 PERCENT EXCEEDS	22		22		20	
90 PERCENT EXCEEDS	3.0		6.0		3.0	

\# See Period of Record, partial years used in monthly statistics
a From Mar. 19 to Apr. 5
b From Mar. 11 to 15
c From Feb. 1 to Apr. 30, 1986
d Estimated discharge from rating curve extended above 280 ft3/s based on surface-float measurement at gage
f At site then in use, same datum
g Backwater from ice

15518080 LIGNITE CREEK ABOVE MOUTH NEAR HEALY—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	e16	e17	e11	e7.5	e6.5	e7.0	e16	19	34	20	19
2	e15	e17	e17	e11	e7.5	e6.5	e7.0	e15	15	32	23	21
3	e14	e18	e17	e11	e7.5	e6.5	e7.0	e15	13	40	20	32
4	e13	e19	e17	e11	e7.5	e6.5	e7.0	e14	49	32	16	31
5	e12	e18	e16	e11	e7.5	e6.5	e7.0	e14	42	31	14	27
6	e12	e18	e16	e10	e7.5	e6.5	e6.5	e15	32	43	14	32
7	e12	e18	e16	e10	e7.5	e6.5	e6.5	e15	29	40	14	29
8	e12	e17	e16	e10	e7.5	e6.5	e6.5	e16	25	29	16	27
9	e13	e17	e15	e10	e7.0	e6.5	e6.5	e17	23	25	14	25
10	e13	e16	e15	e10	e7.0	e6.5	e6.5	e18	25	45	13	21
11	e14	e16	e15	e9.5	e7.0	e6.5	e7.0	e25	24	35	12	20
12	e15	e16	e15	e9.5	e7.0	e6.5	e7.0	e36	16	72	13	21
13	e16	e15	e15	e9.5	e7.0	e6.5	e7.5	e50	22	35	51	19
14	e16	e15	e15	e9.5	e7.0	e6.5	e13	e70	12	33	27	18
15	e17	e15	e14	e9.0	e7.0	e6.5	e18	e110	11	39	37	18
16	e18	e15	e14	e9.0	e7.0	e6.5	e30	e150	19	37	33	18
17	e18	e15	e14	e9.0	e7.0	e7.0	e40	94	37	37	26	19
18	e19	e16	e14	e9.0	e7.0	e7.0	e70	62	38	36	20	19
19	e18	e17	e14	e8.5	e7.0	e7.5	e60	29	26	32	18	19
20	e18	e16	e14	e8.5	e7.0	e7.5	e50	27	24	29	17	19
21	e17	e16	e14	e9.5	e7.0	e8.0	e40	28	18	42	16	18
22	e17	e15	e13	e8.5	e7.0	e8.0	e34	37	27	71	18	19
23	e16	e15	e13	e8.5	e7.0	e8.5	e28	42	33	52	16	25
24	e16	e15	e13	e8.0	e6.5	e8.0	e23	55	24	58	32	26
25	e15	e15	e13	e8.0	e6.5	e8.0	e19	63	21	85	55	22
26	e15	e15	e13	e8.0	e6.5	e8.0	e15	75	21	70	32	21
27	e14	e15	e12	e8.0	e6.5	e8.0	e16	20	64	58	26	22
28	e14	e15	e12	e8.0	e6.5	e7.5	e17	17	84	69	22	22
29	e14	e15	e12	e8.0	---	e7.5	e18	8.4	51	48	21	19
30	e14	e16	e12	e7.5	---	e7.5	e17	7.6	39	39	20	23
31	e15	---	e12	e7.5	---	e7.5	---	14	---	28	20	---
TOTAL	469	482	445	285.5	197.5	219.5	597.0	1175.0	883	1356	696	671
MEAN	15.1	16.1	14.4	9.21	7.05	7.08	19.9	37.9	29.4	43.7	22.5	22.4
MAX	19	19	17	11	7.5	8.5	70	150	84	85	55	32
MIN	12	15	12	7.5	6.5	6.5	6.5	7.6	11	25	12	18
MED	15	16	14	9.0	7.0	6.5	16	25	25	39	20	21
AC-FT	930	956	883	566	392	435	1180	2330	1750	2690	1380	1330
CFSM	0.31	0.33	0.30	0.19	0.15	0.15	0.41	0.79	0.61	0.91	0.47	0.47
IN.	0.36	0.37	0.34	0.22	0.15	0.17	0.46	0.91	0.68	1.05	0.54	0.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1999, BY WATER YEAR (WY)#

MEAN	22.8	15.8	12.0	9.73	8.03	8.17	24.4	78.1	66.9	44.9	45.1	40.5
MAX	47.4	25.4	20.0	18.7	20.6	19.1	45.5	166	145	77.0	96.8	134
(WY)	1994	1994	1987	1995	1994	1994	1994	1992	1989	1986	1986	1990
MIN	10.3	4.87	1.65	0.95	0.00	0.00	0.00	37.9	29.4	25.6	22.5	17.6
(WY)	1988	1988	1988	1986	1986	1986	1986	1999	1999	1996	1999	1987

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1985 - 1999#	
ANNUAL TOTAL	10553.7		7476.5			
ANNUAL MEAN	28.9		20.5		31.0	
HIGHEST ANNUAL MEAN					43.6	1990
LOWEST ANNUAL MEAN					20.5	1999
HIGHEST DAILY MEAN	197	Aug 9	150	May 16	852	Jun 25 1989
LOWEST DAILY MEAN	a5.3	Mar 11	b6.5	Feb 24	c0.00	Feb 1 1986
ANNUAL SEVEN-DAY MINIMUM	5.4	Mar 9	6.5	Feb 24	0.00	Feb 1 1986
MAXIMUM PEAK FLOW			265	Jun 27	d2400	Aug 21 1986
MAXIMUM PEAK STAGE			3.91	Jun 27	f11.05	Aug 21 1986
MAXIMUM PEAK STAGE			g8.00	Apr 18		
ANNUAL RUNOFF (AC-FT)	20930		14830		22420	
ANNUAL RUNOFF (CFSM)	0.601		0.426		0.644	
ANNUAL RUNOFF (INCHES)	8.16		5.78		8.74	
10 PERCENT EXCEEDS	66		39		63	
50 PERCENT EXCEEDS	17		16		20	
90 PERCENT EXCEEDS	6.0		7.0		4.0	

\# See Period of Record, partial years used in monthly statistics
a From Mar. 11 to 15
b From Feb. 24 to Mar. 16 and Apr.6 to 10
c From Feb. 1 to Apr. 30, 1986
d Estimated discharge from rating curve extended above 280 ft^3/s based on surface-float measurement at gage
e Estimated
f At site then in use, same datum
g Backwater from ice

15518080 LIGNITE CREEK ABOVE MOUTH NEAR HEALY—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	e9.0	e9.0	e9.0	e8.0	e8.5	e10	e50	98	25	23	109
2	42	e9.0	e9.0	e9.0	e8.0	e8.5	e10	e70	110	23	22	113
3	42	e9.0	e9.0	e8.5	e8.0	e8.5	e10	e100	86	26	21	95
4	33	e9.0	e9.0	e8.5	e8.0	e8.5	e10	e65	101	25	21	93
5	31	e9.0	e9.0	e8.0	e8.0	e8.5	e10	e40	88	42	26	87
6	30	e9.0	e9.0	e8.0	e8.0	e8.0	e10	e55	87	38	30	86
7	26	e9.0	e9.0	e7.5	e8.0	e8.0	e10	e70	86	28	30	98
8	23	e9.0	e8.5	e7.5	e7.5	e8.0	e10	e90	69	25	30	104
9	22	e9.0	e8.5	e7.5	e7.5	e8.0	e10	e60	52	27	38	102
10	16	e9.0	e8.5	e7.5	e7.5	e8.0	e10	e42	50	50	36	92
11	e14	e9.0	e8.5	e7.5	e7.5	e8.0	e10	e32	51	72	132	97
12	e13	e9.5	e8.5	e7.0	e7.5	e8.0	e11	e27	46	96	323	95
13	e13	e9.5	e8.5	e7.0	e7.5	e8.0	e11	e25	44	58	81	89
14	e12	e9.5	e8.5	e7.0	e7.5	e8.0	e11	e28	48	43	144	86
15	e12	e9.5	e8.5	e7.0	e7.5	e8.5	e11	e38	47	32	116	87
16	e11	e9.5	e8.5	e7.5	e7.5	e8.5	e11	e55	38	27	82	81
17	e11	e9.5	e8.5	e7.5	e7.5	e8.5	e12	e80	35	25	125	77
18	e10	e9.5	e9.0	e7.5	e7.5	e8.5	e12	e110	33	23	165	73
19	e10	e10	e9.0	e8.0	e7.5	e8.5	e12	e120	33	23	141	71
20	e10	e10	e9.5	e8.0	e7.5	e8.5	e12	103	31	23	63	69
21	e9.5	e11	e10	e8.0	e7.5	e8.5	e13	72	30	21	55	73
22	e9.5	11	e10	e8.0	e7.5	e8.5	e14	76	37	21	121	89
23	e9.5	e11	e10	e8.0	e7.5	e8.5	e16	86	33	21	78	69
24	e9.5	e10	e10	e8.0	e7.5	e8.5	e18	82	31	21	56	62
25	e9.5	e10	e10	e8.0	e7.5	e8.0	e20	60	27	25	111	60
26	e9.5	e10	e9.5	e8.0	e7.5	e8.0	e22	56	28	23	96	61
27	e9.5	e9.5	e9.5	e8.0	e8.0	e8.0	e25	61	26	27	73	55
28	e9.0	e9.5	e9.5	e7.5	e8.0	e8.0	e29	69	26	35	65	49
29	e9.0	e9.5	e9.5	e7.5	e8.0	e8.5	e34	108	28	33	76	47
30	e9.0	e9.5	e9.5	e7.5	---	e9.5	e40	98	30	26	203	45
31	e9.0	---	e9.0	e7.5	---	e10	---	98	---	23	124	---
TOTAL	510.5	286.5	282.0	241.0	222.5	259.5	444	2126	1529	1007	2707	2414
MEAN	16.5	9.55	9.10	7.77	7.67	8.37	14.8	68.6	51.0	32.5	87.3	80.5
MAX	42	11	10	9.0	8.0	10	40	120	110	96	323	113
MIN	9.0	9.0	8.5	7.0	7.5	8.0	10	25	26	21	21	45
MED	11	9.5	9.0	7.5	7.5	8.5	11	69	41	26	76	86
AC-FT	1010	568	559	478	441	515	881	4220	3030	2000	5370	4790
CFSM	0.34	0.20	0.19	0.16	0.16	0.17	0.31	1.43	1.06	0.68	1.82	1.67
IN.	0.39	0.22	0.22	0.19	0.17	0.20	0.34	1.64	1.18	0.78	2.09	1.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2000, BY WATER YEAR (WY)#

MEAN	22.4	15.4	11.8	9.60	8.01	8.19	23.7	77.4	65.9	44.1	47.8	43.0
MAX	47.4	25.4	20.0	18.7	20.6	19.1	45.5	166	145	77.0	96.8	134
(WY)	1994	1994	1987	1995	1994	1994	1994	1992	1989	1986	1986	1990
MIN	10.3	4.87	1.65	0.95	0.00	0.00	0.00	37.9	29.4	25.6	22.5	17.6
(WY)	1988	1988	1988	1986	1986	1986	1986	1999	1999	1996	1999	1987

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1985 - 2000#	
ANNUAL TOTAL	7159.5		12029.0			
ANNUAL MEAN	19.6		32.9		31.1	
HIGHEST ANNUAL MEAN					43.6	1990
LOWEST ANNUAL MEAN					20.5	1999
HIGHEST DAILY MEAN	150	May 16	323	Aug 12	852	Jun 25 1989
LOWEST DAILY MEAN	a6.5	Feb 24	b7.0	Jan 12	c0.00	Feb 1 1986
ANNUAL SEVEN-DAY MINIMUM	6.5	Feb 24	7.2	Jan 9	0.00	Feb 1 1986
MAXIMUM PEAK FLOW			716	Aug 12	d2400	Aug 21 1986
MAXIMUM PEAK STAGE			5.06	Aug 12	f11.05	Aug 21 1986
ANNUAL RUNOFF (AC-FT)	14200		23860		22520	
ANNUAL RUNOFF (CFSM)	0.408		0.683		0.646	
ANNUAL RUNOFF (INCHES)	5.54		9.30		8.78	
10 PERCENT EXCEEDS	40		88		66	
50 PERCENT EXCEEDS	11		11		20	
90 PERCENT EXCEEDS	7.0		8.0		4.0	

\# See Period of Record, partial years used in monthly statistics
a From Feb. 24 to Mar. 16 and Apr.6 to 10
b From Jan 12 to 15
c From Feb. 1 to Apr. 30, 1986
d Estimated discharge from rating curve extended above 280 ft^3/s based on surface-float measurement at gage
e Estimated
f At site then in use, same datum

15518080 LIGNITE CREEK ABOVE MOUTH NEAR HEALY—Continued

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
1	29	e28	e21	e16	e15	e14	e11	e46	35	22	117	28
2	e26	e27	e20	e16	e15	e14	e11	e42	37	22	74	29
3	e31	e27	e20	e16	e15	e14	e11	e36	36	21	79	48
4	e36	e27	e20	e16	e15	e14	e11	e50	37	22	91	36
5	e35	e27	e20	e16	e15	e14	e11	87	36	24	60	35
6	e32	e27	e19	e16	e15	e14	e11	78	34	41	51	36
7	e30	e27	e19	e16	e15	e14	e11	74	34	55	46	34
8	e29	e27	e19	e16	e15	e14	e11	78	32	44	43	38
9	e28	e26	e19	e16	e15	e14	e11	88	30	32	41	34
10	e27	e26	e19	e16	e15	e14	e12	86	32	26	40	31
11	e26	e26	e19	e16	e15	e14	e12	74	31	24	45	30
12	e26	e26	e18	e16	e15	e14	e12	75	44	23	51	29
13	e27	e26	e18	e16	e15	e14	e12	87	38	22	45	28
14	e28	e26	e18	e16	e15	e14	e12	103	33	23	41	27
15	e30	e26	e18	e16	e15	e14	e12	97	30	21	39	26
16	e34	e26	e18	e16	e15	e14	e12	89	28	19	41	26
17	e36	e26	e18	e16	e15	e13	e12	67	28	23	43	26
18	e35	e26	e18	e16	e15	e13	e13	70	27	28	43	24
19	e34	e25	e17	e16	e15	e12	e14	81	27	23	39	24
20	e32	e25	e17	e16	e15	e12	e15	69	26	21	39	24
21	e31	e24	e17	e16	e15	e12	e16	58	24	20	44	24
22	e30	e24	e17	e16	e14	e11	e17	54	23	22	41	24
23	e30	e23	e17	e16	e14	e11	e19	57	23	23	45	24
24	e29	e23	e17	e16	e14	e11	e20	47	22	45	45	23
25	e29	e22	e17	e16	e14	e11	e22	39	22	46	39	23
26	e29	e22	e17	e16	e14	e11	e24	36	21	75	37	23
27	e29	e22	e17	e15	e14	e11	e27	39	22	137	36	23
28	e29	e21	e17	e15	e14	e11	e32	40	21	102	34	22
29	e28	e21	e16	e15	---	e11	e38	36	21	101	32	21
30	e28	e21	e16	e15	---	e11	e48	34	24	147	31	22
31	e28	---	e16	e15	---	e11	---	32	---	165	28	---
TOTAL	931	750	559	491	413	396	500	1949	878	1419	1480	842
MEAN	30.0	25.0	18.0	15.8	14.8	12.8	16.7	62.9	29.3	45.8	47.7	28.1
MAX	36	28	21	16	15	14	48	103	44	165	117	48
MIN	26	21	16	15	14	11	11	32	21	19	28	21
MED	29	26	18	16	15	14	12	67	29	24	43	26
AC-FT	1850	1490	1110	974	819	785	992	3870	1740	2810	2940	1670
CFSM	0.62	0.52	0.37	0.33	0.31	0.27	0.35	1.31	0.61	0.95	0.99	0.58
IN.	0.72	0.58	0.43	0.38	0.32	0.31	0.39	1.51	0.68	1.10	1.14	0.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2001, BY WATER YEAR (WY)#

MEAN	22.8	16.0	12.2	9.99	8.43	8.47	23.3	76.5	63.8	44.2	47.8	42.2
MAX	47.4	25.4	20.0	18.7	20.6	19.1	45.5	166	145	77.0	96.8	134
(WY)	1994	1994	1987	1995	1994	1994	1994	1992	1989	1986	1986	1990
MIN	10.3	4.87	1.65	0.95	0.00	0.00	0.00	37.9	29.3	25.6	22.5	17.6
(WY)	1988	1988	1988	1986	1986	1986	1986	1999	2001	1996	1999	1987

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1985 - 2001#	
ANNUAL TOTAL	13190.0		10608			
ANNUAL MEAN	36.0		29.1		31.0	
HIGHEST ANNUAL MEAN					43.6	1990
LOWEST ANNUAL MEAN					20.5	1999
HIGHEST DAILY MEAN	323	Aug 12	165	Jul 31	852	Jun 25 1989
LOWEST DAILY MEAN	a7.0	Jan 12	b11	Mar 22	c0.00	Feb 1 1986
ANNUAL SEVEN-DAY MINIMUM	7.2	Jan 9	11	Mar 22	0.00	Feb 1 1986
MAXIMUM PEAK FLOW			190	Jul 31	d2400	Aug 21 1986
MAXIMUM PEAK STAGE			3.48	Jul 31	f11.05	Aug 21 1986
MAXIMUM PEAK STAGE			g5.44	Apr 20		
ANNUAL RUNOFF (AC-FT)	26160		21040		22430	
ANNUAL RUNOFF (CFSM)	0.749		0.604		0.644	
ANNUAL RUNOFF (INCHES)	10.20		8.20		8.74	
10 PERCENT EXCEEDS	88		47		64	
50 PERCENT EXCEEDS	26		23		20	
90 PERCENT EXCEEDS	8.0		14		5.0	

\# See Period of Record, partial years used in monthly statistics
a From Jan 12-15
b From Mar. 22 to Apr. 9
c From Feb. 1 to Apr. 30, 1986
d Estimated discharge from rating curve extended above 280 ft^3/s based on surface-float measurement at gage
e Estimated
f At site then in use, same datum
g Backwater from ice

15518080 LIGNITE CREEK ABOVE MOUTH NEAR HEALY—Continued

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	39	e20	e16	e13	e13	e14	e12	e26	93	29	54	15
2	37	e20	e15	e13	e13	e14	e12	e28	69	29	36	16
3	41	e20	e15	e13	e14	e14	e12	e31	60	36	23	16
4	44	e19	e15	e13	e14	e14	e12	e36	54	32	21	16
5	39	e19	e15	e13	e14	e13	e12	e60	49	43	19	16
6	37	e19	e15	e13	e14	e13	e13	169	46	55	18	16
7	35	e18	e15	e13	e14	e13	e13	289	46	41	18	16
8	35	e18	e15	e12	e14	e13	e13	132	47	43	17	16
9	34	e17	e15	e12	e14	e13	e13	106	60	40	17	16
10	33	e17	e14	e12	e15	e12	e13	83	139	42	17	16
11	32	e16	e14	e12	e15	e12	e13	79	111	38	18	17
12	32	e16	e14	e12	e15	e12	e14	122	90	36	18	17
13	e30	e15	e14	e12	e15	e12	e14	92	79	34	17	22
14	34	e14	e14	e12	e15	e12	e14	79	72	34	17	25
15	32	e13	e14	e12	e15	e12	e14	72	65	47	17	24
16	e30	e13	e14	e12	e15	e12	e15	66	69	39	17	21
17	e28	e12	e14	e12	e15	e12	e15	57	53	31	17	19
18	e27	e12	e13	e12	e15	e12	e16	53	46	32	17	20
19	e26	e12	e13	e12	e15	e12	e16	54	40	47	16	20
20	e25	e13	e13	e12	e15	e12	e17	49	37	50	16	25
21	e24	e13	e13	e12	e15	e12	e17	45	34	40	16	29
22	e23	e14	e13	e13	e15	e12	e18	49	33	37	16	24
23	e23	e14	e13	e13	e15	e12	e19	51	31	42	16	e22
24	e22	e15	e13	e13	e15	e12	e19	54	29	35	16	e20
25	e22	e15	e13	e13	e15	e12	e20	55	28	25	16	e19
26	e22	e16	e13	e13	e15	e12	e21	119	27	20	19	e22
27	e21	e16	e13	e13	e15	e12	e22	125	27	16	18	e21
28	e21	e16	e13	e13	e15	e12	e23	78	27	17	17	e20
29	e21	e16	e13	e13	e14	e12	e24	69	27	19	16	e19
30	e20	e16	e13	e13	---	e12	e25	75	28	20	16	e19
31	e20	---	e13	e13	---	e12	---	86	---	17	15	---
TOTAL	909	474	430	389	423	385	481	2489	1616	1066	591	584
MEAN	29.3	15.8	13.9	12.5	14.6	12.4	16.0	80.3	53.9	34.4	19.1	19.5
MAX	44	20	16	13	15	14	25	289	139	55	54	29
MIN	20	12	13	12	13	12	12	26	27	16	15	15
MED	30	16	14	13	15	12	14	69	47	36	17	19
AC-FT	1800	940	853	772	839	764	954	4940	3210	2110	1170	1160
CFSM	0.61	0.33	0.29	0.26	0.30	0.26	0.33	1.67	1.12	0.71	0.40	0.40
IN.	0.70	0.37	0.33	0.30	0.33	0.30	0.37	1.92	1.25	0.82	0.46	0.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2004, BY WATER YEAR (WY)

MEAN	24.8	16.9	12.4	10.3	8.91	8.72	21.4	75.7	63.0	47.0	49.6	43.4
MAX	55.4	35.5	20.0	18.7	20.6	19.1	45.5	166	145	110	105	134
(WY)	2003	2003	1987	1995	1994	1994	1994	1992	1989	2002	2002	1990
MIN	10.3	4.87	1.65	0.95	0.00	0.00	0.00	31.0	29.3	25.6	19.1	17.6
(WY)	1988	1988	1988	1986	1986	1986	1986	2003	2001	1996	2004	1987

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1985 - 2004	
ANNUAL TOTAL	10406.4		9837			
ANNUAL MEAN	28.5		26.9		31.6	
HIGHEST ANNUAL MEAN					45.4	2002
LOWEST ANNUAL MEAN					20.5	1999
HIGHEST DAILY MEAN	298	Sep 2	289	May 7	852	Jun 25 1989
LOWEST DAILY MEAN	a9.4	Mar 30	b12	Nov 17	c0.00	Feb 1 1986
ANNUAL SEVEN-DAY MINIMUM	9.4	Mar 30	12	Jan 8	0.00	Feb 1 1986
MAXIMUM PEAK FLOW			381	May 7	d2400	Aug 21 1986
MAXIMUM PEAK STAGE			3.97	May 7	f11.05	Aug 21 1986
ANNUAL RUNOFF (AC-FT)	20640		19510		22880	
ANNUAL RUNOFF (CFSM)	0.593		0.559		0.657	
ANNUAL RUNOFF (INCHES)	8.05		7.61		8.92	
10 PERCENT EXCEEDS	55		53		67	
50 PERCENT EXCEEDS	16		17		20	
90 PERCENT EXCEEDS	10		12		6.0	

\# See Period of Record, partial years used in monthly statistics
a From Mar. 30 to Apr. 10
b From Nov. 17 to 19, Jan. 8 to 21 and Mar. 10 to Apr. 5
c From Feb. 1 to Apr. 30, 1986
d Estimated discharge from rating curve extended above 280 ft^3/s based on surface-float measurement at gage
e Estimated
f At site then in use, same datum

15518080 LIGNITE CREEK ABOVE MOUTH NEAR HEALY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1980 to 1981, 1986 to September 2004 (discontinued)

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Medium code	Stream width, feet (00004)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampler type, code (84164)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)
MAY												
05...	1421	9	27.5	2.66	39	3001	10	6.4	17.5	1710	181	--
JUN												
22...	1310	9	12.6	2.18	33	3001	10	16.8	18.1	257	23	66
JUL												
26...	1522	9	13.1	2.03	19	3001	10	13.1	17.5	216	11	45
SEP												
26...	1023	9	20.2	--	21	3001	10	.4	.3	185	10	53

15564879 SLATE CREEK AT COLDFOOT

LOCATION.--Lat 67°15'17", long 150°10'24", in NW$^1/_4$ sec. 15, T. 28 N., R. 12 W. (Wiseman B-1 quad), Hydrologic Unit 19040601, on left bank 40 ft downstream from bridge on Dalton Highway, 1.1 mi upstream from mouth and 0.1 mi north of Coldfoot.

DRAINAGE AREA.--73.4 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Annual maximums, water years 1981-94. May 1995 to current year (no winter records in water years 1995-98).

REVISED RECORDS.--WRD AK-99-1: 1984(M), 1989(M), 1993(M), 1994(M), 1998 (M).

GAGE.--Water-stage recorder. Elevation of gage is 1050 ft above sea level, from topographic map. Prior to May 5, 1995, nonrecording gage at site 105 ft upstream at same datum. May 5, 1995 to Present, recording gage at site 60 ft downstream at same datum.

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

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	118	e55	e14	e1.5	e0.0	e0.0	e0.0	e4.0	269	30	107	44
2	120	e53	e14	e1.4	e0.0	e0.0	e0.0	e6.0	295	28	82	46
3	122	e50	e13	e1.2	e0.0	e0.0	e0.0	e7.0	241	29	64	43
4	197	e48	e13	e1.0	e0.0	e0.0	e0.0	e8.0	262	29	55	41
5	184	e46	e12	e0.8	e0.0	e0.0	e0.0	e9.0	333	29	49	40
6	166	e44	e12	e0.6	e0.0	e0.0	e0.0	e10	246	27	45	38
7	159	e42	e11	e0.4	e0.0	e0.0	e0.0	e11	192	26	43	37
8	149	e40	e11	e0.2	e0.0	e0.0	e0.0	e14	164	27	41	37
9	139	e38	e10	e0.0	e0.0	e0.0	e0.0	e18	144	25	39	36
10	139	e37	e9.4	e0.0	e0.0	e0.0	e0.0	e27	130	23	38	35
11	132	e35	e8.8	e0.0	e0.0	e0.0	e0.0	e44	106	21	36	34
12	126	e34	e8.2	e0.0	e0.0	e0.0	e0.0	e67	95	20	35	34
13	120	e32	e7.5	e0.0	e0.0	e0.0	e0.0	e100	85	20	63	33
14	e110	e31	e6.9	e0.0	e0.0	e0.0	e0.0	e200	78	19	143	36
15	e107	e30	e6.4	e0.0	e0.0	e0.0	e0.0	e230	72	19	114	35
16	e100	e28	e5.9	e0.0	e0.0	e0.0	e0.0	e330	71	19	95	33
17	e94	e27	e5.5	e0.0	e0.0	e0.0	e0.0	e400	69	19	86	31
18	e90	e26	e5.0	e0.0	e0.0	e0.0	e0.0	e340	63	22	78	29
19	e88	e25	e4.6	e0.0	e0.0	e0.0	e0.0	e280	57	32	73	28
20	e86	e24	e4.3	e0.0	e0.0	e0.0	e0.0	209	53	30	68	29
21	e84	e23	e4.0	e0.0	e0.0	e0.0	e0.0	186	51	25	63	31
22	e82	e22	e3.7	e0.0	e0.0	e0.0	e0.0	183	48	28	60	30
23	e78	e21	e3.4	e0.0	e0.0	e0.0	e0.0	209	46	28	58	34
24	e75	e20	e3.1	e0.0	e0.0	e0.0	e0.0	340	42	29	54	32
25	e72	e19	e2.8	e0.0	e0.0	e0.0	e0.0	474	40	27	51	31
26	e70	e18	e2.6	e0.0	e0.0	e0.0	e0.0	560	37	27	50	29
27	e67	e17	e2.4	e0.0	e0.0	e0.0	e0.1	385	36	26	47	28
28	e65	e17	e2.2	e0.0	e0.0	e0.0	e0.5	407	35	25	46	27
29	e62	e16	e2.0	e0.0	e0.0	e0.0	e1.0	397	33	24	46	22
30	e60	e15	e1.8	e0.0	---	e0.0	e2.0	365	31	26	44	18
31	e57	---	e1.7	e0.0	---	e0.0	---	297	---	36	43	---
TOTAL	3318	933	212.2	7.1	0.0	0.0	3.6	6117.0	3424	795	1916	1001
MEAN	107	31.1	6.85	0.23	0.00	0.00	0.12	197	114	25.6	61.8	33.4
MAX	197	55	14	1.5	0.00	0.00	2.0	560	333	36	143	46
MIN	57	15	1.7	0.00	0.00	0.00	0.00	4.0	31	19	35	18
AC-FT	6580	1850	421	14	0.00	0.00	7.1	12130	6790	1580	3800	1990
CFSM	1.46	0.42	0.09	0.00	0.00	0.00	0.00	2.69	1.55	0.35	0.84	0.45
IN.	1.68	0.47	0.11	0.00	0.00	0.00	0.00	3.10	1.74	0.40	0.97	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2004, BY WATER YEAR (WY)#

MEAN	56.9	17.4	7.85	3.31	1.98	1.54	2.50	196	210	100	182	145
MAX	107	31.1	17.3	12.1	9.07	7.13	9.32	378	319	184	435	234
(WY)	2004	2004	1999	1999	1999	1999	1998	1998	2003	1995	1998	2003
MIN	16.2	2.28	1.41	0.12	0.00	0.00	0.00	27.5	114	25.6	52.8	33.4
(WY)	1997	1998	2002	2001	2001	2001	2001	2003	2004	2004	2002	2004

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

15564879 SLATE CREEK AT COLDFOOT—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1995 - 2004#	
ANNUAL TOTAL	35193.80		17726.9			
ANNUAL MEAN	96.4		48.4		71.7	
HIGHEST ANNUAL MEAN					93.4	2003
LOWEST ANNUAL MEAN					48.4	2004
HIGHEST DAILY MEAN	1940	Jul 26	560	May 26	a2850	May 26 1998
LOWEST DAILY MEAN	b0.00	Feb 22	c0.00	Jan 9	0.00	Jan 13 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Feb 22	0.00	Jan 9	0.00	Jan 13 2001
MAXIMUM PEAK FLOW			790	May 26	f4930	May 26 1998
MAXIMUM PEAK STAGE			16.01	May 26	19.73	May 26 1998
ANNUAL RUNOFF (AC-FT)	69810		35160		51930	
ANNUAL RUNOFF (CFSM)	1.31		0.660		0.977	
ANNUAL RUNOFF (INCHES)	17.84		8.98		13.27	
10 PERCENT EXCEEDS	256		131		190	
50 PERCENT EXCEEDS	19		24		19	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

a Revised in 1999 from 2740 ft^3/s
b From Feb. 22 to May 10
c From Jan. 9 to Apr. 26
f From rating curve extended above 2,190 ft^3/s on basis of slope-area measurement at discharge 4,700 ft^3/s,gage height 19.6 ft, at previous site 60 ft downstream.

15564879 SLATE CREEK AT COLDFOOT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water year 1998 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 1998 to current year (seasonal).

INSTRUMENTATION.--Water-temperature recorder since May 11, 1998. Electronic water temperature recorder set for 1-hour recording interval.

REMARKS.--Record not used or absent October 24 to May 13 and August 24 to September 30 due to probe being frozen in ice, or malfunctioning. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on June 10, July 13 and September 20. Variation within the cross sections was less than 0.3°C. The variation found between mean stream temperature and sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 15.5°C, August 20, 2004; minimum, 0.0°C, on many days during spring breakup and winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 15.5°C, August 20; minimum, 0°C, on many days during fall, winter, and spring breakup periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUN								
10...	0910	59.4	52.2	14.42	132	10	4.9	14.7
10...	0911	59.4	40.2	14.42	132	10	4.9	14.7
10...	0912	59.4	28.2	14.42	132	10	5.0	14.7
10...	0913	59.4	16.2	14.42	132	10	5.0	14.7
10...	0914	59.4	4.2	14.42	132	10	5.0	14.7
JUL								
13...	0954	13.8	12.0	13.82	21	10	8.5	17.3
13...	0955	13.8	9.5	13.82	21	10	8.3	17.3
13...	0956	13.8	7.0	13.82	21	10	8.3	17.3
13...	0957	13.8	4.5	13.82	21	10	8.3	17.3
13...	0958	13.8	2.0	13.82	21	10	8.3	17.3
SEP								
20...	1807	18.0	15.0	13.89	29	10	4.2	5.2
20...	1810	18.0	12.0	13.89	29	10	4.1	5.2
20...	1813	18.0	9.0	13.89	29	10	4.2	5.2
20...	1816	18.0	6.0	13.89	29	10	4.3	5.2
20...	1819	18.0	3.0	13.89	29	10	4.1	5.2

15564879 SLATE CREEK AT COLDFOOT—Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	4.0	3.0	3.5	---	---	---	---	---	---	---	---	---
2	4.5	3.5	4.0	---	---	---	---	---	---	---	---	---
3	4.0	2.5	3.0	---	---	---	---	---	---	---	---	---
4	3.5	2.0	3.0	---	---	---	---	---	---	---	---	---
5	2.0	0.5	1.5	---	---	---	---	---	---	---	---	---
6	2.5	2.0	2.0	---	---	---	---	---	---	---	---	---
7	2.0	1.0	1.5	---	---	---	---	---	---	---	---	---
8	1.5	0.5	1.0	---	---	---	---	---	---	---	---	---
9	1.0	0.0	0.5	---	---	---	---	---	---	---	---	---
10	2.0	1.0	1.5	---	---	---	---	---	---	---	---	---
11	1.5	0.0	1.0	---	---	---	---	---	---	---	---	---
12	1.5	0.5	1.0	---	---	---	---	---	---	---	---	---
13	1.5	0.0	1.0	---	---	---	---	---	---	---	---	---
14	1.0	0.0	0.0	---	---	---	---	---	---	---	---	---
15	1.0	0.0	0.5	---	---	---	---	---	---	---	---	---
16	0.5	0.0	0.5	---	---	---	---	---	---	---	---	---
17	0.5	0.0	0.5	---	---	---	---	---	---	---	---	---
18	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
19	0.5	0.0	0.5	---	---	---	---	---	---	---	---	---
20	0.5	0.0	0.5	---	---	---	---	---	---	---	---	---
21	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
22	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
23	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	0.5	0.0	---
15	---	---	---	---	---	---	---	---	---	1.0	0.0	0.5
16	---	---	---	---	---	---	---	---	---	1.0	0.0	0.5
17	---	---	---	---	---	---	---	---	---	1.0	0.0	0.5
18	---	---	---	---	---	---	---	---	---	1.0	0.0	0.5
19	---	---	---	---	---	---	---	---	---	1.0	0.0	0.5
20	---	---	---	---	---	---	---	---	---	2.0	0.0	0.5
21	---	---	---	---	---	---	---	---	---	2.0	0.0	0.5
22	---	---	---	---	---	---	---	---	---	1.5	0.0	0.5
23	---	---	---	---	---	---	---	---	---	2.0	0.0	1.0
24	---	---	---	---	---	---	---	---	---	2.0	0.0	0.5
25	---	---	---	---	---	---	---	---	---	2.0	0.0	1.0
26	---	---	---	---	---	---	---	---	---	1.0	0.5	0.5
27	---	---	---	---	---	---	---	---	---	1.5	0.0	0.5
28	---	---	---	---	---	---	---	---	---	3.0	0.5	1.5
29	---	---	---	---	---	---	---	---	---	4.5	1.0	2.5
30	---	---	---	---	---	---	---	---	---	6.0	1.5	3.5
31	---	---	---	---	---	---	---	---	---	6.5	2.0	4.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

15564879 SLATE CREEK AT COLDFOOT—Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	3.0	4.5	14.5	9.5	12.0	12.5	7.0	10.0	---	---	---
2	7.5	1.5	4.5	13.5	8.5	11.0	13.0	---	---	---	---	---
3	9.0	2.5	5.5	11.0	8.5	9.5	14.0	---	---	---	---	---
4	6.5	4.0	5.0	11.5	8.0	9.5	14.5	9.0	11.5	---	---	---
5	8.5	3.0	5.5	12.5	9.0	10.5	14.0	---	---	---	---	---
6	10.0	3.0	6.5	13.0	7.5	10.0	14.5	---	---	---	---	---
7	11.0	4.0	7.5	10.5	8.0	9.0	13.5	---	---	---	---	---
8	11.5	4.0	7.5	12.0	7.5	9.5	12.0	10.0	11.0	---	---	---
9	11.5	4.5	8.0	11.5	7.0	9.0	13.5	8.5	11.0	---	---	---
10	11.0	5.0	7.5	11.5	7.5	9.5	14.0	8.5	11.0	---	---	---
11	11.5	5.0	8.0	14.0	8.0	11.0	14.5	9.0	11.5	---	---	---
12	12.0	5.0	8.5	12.5	8.5	10.5	13.0	---	---	---	---	---
13	12.0	6.0	9.0	13.0	7.5	10.0	---	10.5	---	---	---	---
14	12.0	6.0	9.0	12.0	8.0	10.0	---	---	---	---	---	---
15	13.5	6.0	9.5	11.0	8.0	9.5	14.0	---	---	---	---	---
16	12.0	7.0	10.0	12.0	8.0	10.0	14.5	---	---	---	---	---
17	11.5	7.5	9.5	11.5	8.5	10.0	14.5	---	---	---	---	---
18	13.5	7.5	10.0	---	8.5	---	14.5	---	---	---	---	---
19	13.5	7.0	10.0	12.5	---	---	14.5	---	---	---	---	---
20	14.5	7.0	11.0	13.5	9.0	12.0	15.5	---	---	---	---	---
21	15.0	8.5	11.5	12.0	8.5	10.0	14.0	---	---	---	---	---
22	13.0	8.0	10.5	13.0	9.5	10.5	13.5	---	---	---	---	---
23	14.0	8.5	11.0	14.0	9.5	11.0	13.0	---	---	---	---	---
24	12.0	8.5	10.0	13.5	9.5	11.0	---	---	---	---	---	---
25	13.0	8.5	10.5	14.0	9.0	11.5	---	---	---	---	---	---
26	14.0	7.5	10.5	14.0	9.0	11.5	---	---	---	---	---	---
27	11.0	7.0	9.0	---	10.0	---	---	---	---	---	---	---
28	13.0	7.0	10.0	12.5	9.0	11.0	---	---	---	---	---	---
29	12.5	8.0	10.0	13.0	9.5	11.0	---	---	---	---	---	---
30	14.0	8.5	11.0	12.5	10.0	11.0	---	---	---	---	---	---
31	---	---	---	11.0	10.0	10.5	---	---	---	---	---	---
MONTH	15.0	1.5	8.7	---	---	---	---	---	---	---	---	---

15565400 ANVIK RIVER NEAR ANVIK

LOCATION.--Lat 62°47'22", long 160°41'49", in NW¼ NW¼ SE¼ sec. 10, T.31 N., R.61 W. (Holy Cross D-4 quad), Hydrologic Unit 190401801, on the right bank, approximately 25 river mi upstream from mouth, 18 mi northwest of Anvik.

DRAINAGE AREA.-- Pending

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 160 ft above sea level from topographic map.

REMARKS.--Records good, except for June 10 to August 6, which are fair, and estimated daily discharges, which are poor. GOES satellite telemetry at station.

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	2120	2720	e480	e300	e210	e190	e180	e10000	5900	1900	1010	938
2	3460	2910	e470	e290	e210	e190	e180	e9800	5120	1870	934	922
3	4560	2970	e460	e280	e210	e190	e180	e9600	4820	1820	924	896
4	5160	3010	e450	e270	e210	e190	e180	e9200	4550	1690	943	862
5	4610	3080	e440	e260	e210	e190	e180	e9000	4200	1550	919	882
6	4070	3140	e430	e260	e210	e190	e180	e8800	3960	1470	905	937
7	3680	3230	e420	e250	e210	e190	e180	e8600	3770	1450	871	943
8	3470	3680	e410	e250	e210	e190	e180	e8200	3660	1320	862	886
9	3510	4480	e410	e240	e210	e190	e190	e8000	3730	1240	939	839
10	3360	e3600	e400	e240	e210	e190	e190	e7800	3640	1230	992	813
11	3150	e2400	e400	e240	e210	e190	e200	e7600	3410	1160	1060	792
12	3010	e1600	e400	e230	e210	e190	e220	e7400	3370	1080	1190	773
13	2830	e1300	e390	e230	e210	e190	e250	e7200	3600	1030	2080	767
14	2690	e1200	e380	e230	e210	e190	e280	e7000	3510	986	3680	824
15	2770	e1100	e370	e230	e210	e190	e340	e6800	3240	958	3490	869
16	3000	e1000	e360	e220	e200	e180	e400	e6600	3010	960	2730	829
17	2990	e1000	e360	e220	e200	e180	e500	e6600	2940	928	2250	794
18	e2500	e900	e350	e220	e200	e180	e600	e6400	3000	912	1930	757
19	e2300	e900	e350	e220	e200	e180	e700	e6200	3130	931	1710	752
20	e2100	e900	e340	e220	e200	e180	e900	5970	3000	909	1550	781
21	e2000	e1000	e340	e220	e200	e180	e1100	5460	2840	837	1440	822
22	e1950	e900	e330	e220	e200	e180	e1500	5670	2750	829	1370	1110
23	e1900	e800	e330	e220	e200	e180	e2000	6510	2890	816	1310	1560
24	e1850	e700	e320	e220	e200	e180	e2500	8800	3090	817	1250	1370
25	e1800	e600	e320	e220	e200	e180	e3000	8420	2890	766	1180	1170
26	e1800	e600	e310	e220	e200	e180	e4000	7180	2690	731	1110	1080
27	1760	e560	e310	e220	e200	e180	e5000	6220	2510	750	1070	1010
28	1690	e540	e300	e220	e200	e180	e6000	5510	2310	861	1030	932
29	1600	e520	e300	e220	e200	e180	e8000	5530	2130	933	1010	888
30	1600	e500	e300	e210	---	e180	e9000	5090	1960	984	976	872
31	2330	---	e300	e210	---	e180	---	5050	---	1100	958	---
TOTAL	85620	51840	11530	7300	5950	5730	48310	226210	101620	34818	43673	27670
MEAN	2762	1728	372	235	205	185	1610	7297	3387	1123	1409	922
MAX	5160	4480	480	300	210	190	9000	10000	5900	1900	3680	1560
MIN	1600	500	300	210	200	180	180	5050	1960	731	862	752
MED	2690	1050	360	220	210	180	370	7180	3180	984	1070	877
AC-FT	169800	102800	22870	14480	11800	11370	95820	448700	201600	69060	86630	54880

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2004, BY WATER YEAR (WY)#

MEAN	2201	1143	416	260	213	191	901	5826	3755	1977	1981	2086
MAX	2762	1728	571	312	235	213	1610	7297	4998	3051	3320	3220
(WY)	2004	2004	2003	2003	2003	2003	2004	2004	2003	2001	2003	2001
MIN	1302	520	304	233	198	176	162	4266	2881	984	656	922
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2001 - 2004#	
ANNUAL TOTAL	792750		650271			
ANNUAL MEAN	2172		1777		1677	
HIGHEST ANNUAL MEAN					2125	2003
LOWEST ANNUAL MEAN					1130	2002
HIGHEST DAILY MEAN	12400	May 10	10000	May 1	16900	May 25 2002
LOWEST DAILY MEAN	a210	Mar 11	b180	Mar 16	c160	Apr 1 2002
ANNUAL SEVEN-DAY MINIMUM	210	Mar 11	180	Mar 16	160	Apr 1 2002
MAXIMUM PEAK FLOW			10100	May 1	20700	May 25 2002
MAXIMUM PEAK STAGE			d24.57	May 1	27.40	May 25 2002
INSTANTANEOUS LOW FLOW			180	Mar 16	160	Apr 1 2002
ANNUAL RUNOFF (AC-FT)	1572000		1290000		1215000	
10 PERCENT EXCEEDS	5230		5060		4500	
50 PERCENT EXCEEDS	1760		902		825	
90 PERCENT EXCEEDS	220		190		190	

\# See Period of Record: partial year used in monthly statistics
a From Mar. 11 to Apr. 7
b From Mar. 16 to Apr. 8
c From Apr. 1 to Apr. 26, 2002
d From flood mark
e Estimated

15565400 ANVIK RIVER NEAR ANVIK—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2002 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 2002 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set for one-hour recording interval.

REMARKS.-- Probe installed on June 25, 2002. Missing record in May was from probe damaged by ice. Records represent water temperature at the sensor within 0.5°C. Temperature was compared with the stream average by cross section on June 3. No variation was found. The variation found between mean stream temperature and sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 19.0°C, Aug. 3-4; 2002; minimum, 0.0°C, many days during winter and spring breakup periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 18.5°C, July 13-15.; minimum, 0.0°C, many days during fall, winter and spring breakup period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	STREAM WIDTH (FT) (00004)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)
Jun									
03...	1501	196	30.0	22.39	4950	10	8010	8.5	15.0
03...	1503	196	60.0	22.39	4950	10	8010	8.5	15.0
03...	1505	196	90.0	22.39	4950	10	8010	8.5	15.0
03...	1507	196	144	22.39	4950	10	8010	8.5	15.0
03...	1509	196	180	22.39	4950	10	8010	8.5	15.0

WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.5	4.5	5.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
2	6.5	6.5	6.5	1.5	1.5	1.5	0.0	0.0	0.0	0.5	0.0	0.0
3	6.5	5.5	6.0	2.0	1.5	2.0	0.5	0.0	0.0	0.5	0.0	0.5
4	5.5	5.0	5.0	2.0	2.0	2.0	0.0	0.0	0.0	0.5	0.0	0.5
5	5.0	4.5	5.0	2.5	2.0	2.0	0.0	0.0	0.0	0.5	0.5	0.5
6	4.5	4.5	4.5	2.5	2.5	2.5	0.0	0.0	0.0	0.5	0.0	0.5
7	4.5	4.5	4.5	2.5	2.0	2.5	0.0	0.0	0.0	0.5	0.0	0.5
8	4.5	4.5	4.5	2.0	1.5	2.0	0.0	0.0	0.0	0.5	0.5	0.5
9	4.5	4.5	4.5	1.5	1.0	1.0	0.0	0.0	0.0	0.5	0.5	0.5
10	4.5	4.0	4.0	1.0	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5
11	4.0	3.5	3.5	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.0	0.5
12	3.5	3.0	3.0	1.0	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5
13	3.0	2.5	2.5	1.0	1.0	1.0	0.0	0.0	0.0	0.5	0.5	0.5
14	2.5	1.5	2.0	1.0	1.0	1.0	0.0	0.0	0.0	0.5	0.5	0.5
15	1.5	1.5	1.5	1.0	0.0	0.5	0.0	0.0	0.0	0.5	0.5	0.5
16	2.0	1.5	2.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.5	0.5
17	2.0	1.5	2.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.5	0.5
18	1.5	1.0	1.5	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.5	0.5
19	1.0	1.0	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.5	0.5
20	1.0	1.0	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.5	0.5
21	1.0	1.0	1.0	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.5	0.5
22	1.0	1.0	1.0	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5
23	1.0	0.5	0.5	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.0	0.5
24	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.5
25	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.5
26	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.5
27	0.5	0.5	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0
28	1.0	0.5	0.5	0.0	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0
29	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
30	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
31	1.5	1.0	1.5	---	---	---	0.0	0.0	0.0	0.5	0.0	0.5
MONTH	6.5	0.5	2.5	2.5	0.0	0.7	0.5	0.0	0.1	0.5	0.0	0.4

15565400 ANVIK RIVER NEAR ANVIK—Continued

WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	---	---
2	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.5	0.5
3	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.5	1.0
4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	2.0
5	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.5	3.0
6	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.0	2.0
7	0.5	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	2.0	2.0	2.0
8	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	2.5	2.0	2.5
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.0	2.5
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	2.5	2.5
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.0	2.5
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.0	3.5
15	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.5	---
16	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
19	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	---	---
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.0	5.0	5.5
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.0	---
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	---	---
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.5	6.5	7.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	7.5	8.0
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	8.5	7.5	8.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	8.5	7.0	7.5
29	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	7.0	6.5	6.5
30	---	---	---	0.0	0.0	0.0	1.0	0.5	0.5	8.0	7.0	---
31	---	---	---	0.0	0.0	0.0	---	---	---	9.0	---	---
MONTH	0.5	0.0	0.1	0.5	0.0	0.0	1.0	0.0	0.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.0	7.5	8.5	16.0	14.0	15.0	16.0	15.0	15.5	11.0	10.0	10.5
2	10.0	8.5	9.0	14.0	13.0	13.0	16.0	14.5	15.0	11.0	10.0	10.5
3	10.0	8.5	9.0	13.5	12.5	12.5	15.5	14.0	14.5	10.5	9.0	9.5
4	9.0	8.5	8.5	13.5	12.5	13.0	14.5	14.0	14.5	9.5	8.0	8.5
5	11.0	8.5	9.5	14.0	13.0	13.5	15.0	13.5	14.5	9.5	8.0	8.5
6	13.0	10.5	11.5	15.5	13.0	14.0	17.0	14.0	15.5	10.5	8.5	9.5
7	14.0	13.0	13.5	16.0	14.5	15.5	16.5	15.0	15.5	10.5	9.0	10.0
8	14.0	11.5	12.5	16.5	14.5	15.5	15.0	13.5	14.0	10.5	8.5	9.5
9	11.5	9.5	10.0	17.0	15.0	16.0	14.0	13.0	13.5	10.5	9.0	9.5
10	11.5	10.0	10.5	17.5	15.0	16.5	13.5	13.0	13.5	11.0	9.5	10.0
11	11.5	11.0	11.5	18.0	16.0	17.0	15.0	13.0	14.0	10.5	8.5	9.5
12	12.5	11.5	12.0	18.0	16.0	17.5	15.0	14.0	14.5	9.5	7.5	8.5
13	12.5	11.5	12.0	18.5	16.5	17.5	14.0	13.5	13.5	8.0	6.5	7.0
14	12.5	12.0	12.0	18.5	16.5	17.5	13.5	13.0	13.5	7.0	6.0	6.5
15	12.0	11.0	11.5	18.5	17.0	17.5	15.0	13.0	13.5	6.5	5.5	5.5
16	12.0	12.0	12.0	17.5	16.5	17.0	16.5	14.0	15.0	5.5	5.0	5.0
17	12.0	11.0	11.5	16.5	15.5	16.0	16.5	15.0	16.0	5.0	3.5	4.5
18	11.5	10.0	10.5	17.0	15.0	16.0	16.5	15.0	16.0	4.0	3.5	4.0
19	12.0	10.0	10.5	17.0	14.5	16.0	17.5	15.5	16.5	4.5	4.0	4.0
20	13.5	11.5	12.5	17.5	15.5	16.5	17.5	16.0	16.5	5.0	4.0	4.5
21	13.5	12.5	13.0	18.0	16.0	17.0	16.5	14.5	15.0	5.0	4.5	5.0
22	13.5	12.0	12.5	18.0	16.0	17.0	14.5	13.5	14.0	5.0	4.5	4.5
23	12.0	11.0	11.5	17.5	15.5	16.5	15.5	13.5	14.5	5.0	4.0	4.0
24	11.5	10.0	10.5	18.0	15.5	17.0	15.0	14.0	14.5	4.0	3.0	4.0
25	11.5	9.5	10.5	17.5	16.5	17.0	15.0	13.5	14.0	4.0	3.0	3.5
26	13.5	11.0	12.0	17.0	15.5	16.0	14.0	11.5	12.5	3.0	2.5	2.5
27	16.0	13.5	14.0	15.5	14.5	15.0	11.5	10.5	11.0	2.5	1.5	2.0
28	17.0	15.0	15.5	15.5	14.0	14.5	10.5	8.5	9.5	2.0	1.0	1.5
29	17.0	16.0	16.5	16.5	14.5	15.5	9.5	8.5	9.0	2.0	1.0	1.5
30	16.5	15.5	16.0	15.5	14.0	14.5	10.5	9.5	10.0	1.0	0.5	0.5
31	---	---	---	16.5	15.0	16.0	10.5	10.0	10.0	---	---	---
MONTH	17.0	7.5	11.7	18.5	12.5	15.8	17.5	8.5	13.8	11.0	0.5	6.1

15565447 YUKON RIVER AT PILOT STATION

LOCATION.--Lat 61°56'04", long 162°52'50", in SW¼ SE¼ sec. 5, T.21 N., R.74 W. (Marshall D-3 quad), Hydrologic Unit 19040805, on the right bank, .2 mi downstream from village of Pilot Station, 2.4 mi downstream from Atchuelinguk River, and 19 mi upstream from Andreafsky River.

DRAINAGE AREA.--321,000 mi^2 approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1975 to September 1996, April 2001 to current year.

REVISED RECORDS.--WRD-AK-99-1: 1998.

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above sea level from topographic map.

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

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	334000	e138000	e85000	e64500	e54000	e49000	e46500	e83000	584000	488000	306000	294000
2	326000	e135000	e83000	e64000	e53500	e49000	e46500	e105000	594000	476000	307000	e290000
3	319000	e131000	e82000	e63500	e53500	e49000	e46500	e130000	602000	464000	307000	e285000
4	313000	e128000	e81000	e63000	e53000	e48500	e46500	e165000	608000	454000	307000	e280000
5	308000	e126000	e80000	e63000	e53000	e48500	e46500	e190000	614000	446000	307000	e275000
6	e301000	e124000	e79000	e62500	e53000	e48500	e46500	e225000	619000	438000	307000	e270000
7	e295000	e122000	e78000	e62500	e52500	e48500	e46500	e270000	624000	432000	305000	e265000
8	e285000	e120000	e77500	e62000	e52500	e48000	e46500	312000	629000	427000	303000	e258000
9	e277000	e119000	e77000	e61500	e52500	e48000	e46500	340000	636000	422000	305000	e251000
10	e270000	e117000	e76000	e61000	e52000	e48000	e46500	362000	640000	415000	307000	e245000
11	e262000	e115000	e75500	e60500	e52000	e48000	e46500	380000	642000	408000	308000	e239000
12	e254000	e112000	e74500	e60000	e52000	e48000	e46500	389000	645000	400000	308000	e233000
13	e247000	e110000	e74000	e59500	e51500	e47500	e46500	392000	645000	391000	313000	e228000
14	e239000	e108000	e73000	e59500	e51500	e47500	e46500	401000	642000	384000	324000	e223000
15	e231000	e106000	e72500	e59000	e51000	e47500	e46500	418000	639000	377000	330000	e218000
16	e226000	e104000	e72000	e59000	e51000	e47500	e46500	435000	633000	371000	334000	e213000
17	e219000	e102000	e71000	e58500	e50500	e47000	e46500	450000	627000	370000	335000	e210000
18	e213000	e100000	e70500	e58000	e50500	e47000	e47000	468000	621000	361000	334000	e208000
19	e208000	e99000	e70000	e58000	e50500	e47000	e47000	488000	615000	355000	333000	e206000
20	e201000	e98000	e69500	e57500	e50000	e47000	e47000	502000	607000	351000	330000	e204000
21	e195000	e97000	e69000	e57500	e50000	e47000	e47500	510000	600000	347000	324000	e203000
22	e190000	e95000	e68500	e57000	e50000	e47000	e48000	513000	592000	347000	319000	e202000
23	e185000	e93000	e68000	e57000	e50000	e46500	e48500	516000	583000	338000	314000	e200000
24	e180000	e92000	e67500	e56500	e49500	e46500	e49000	518000	574000	331000	310000	e197000
25	e174000	e91000	e67000	e56000	e49500	e46500	e50000	521000	563000	316000	307000	e194000
26	e169000	e90000	e66500	e56000	e49500	e46500	e52000	524000	552000	308000	306000	e190000
27	e164000	e89000	e66500	e55000	e49000	e46500	e54000	531000	540000	305000	304000	e186000
28	e159000	e88000	e66000	e55000	e49000	e46500	e57000	542000	527000	304000	302000	e182000
29	e154000	e87000	e65500	e54500	e49000	e46500	e63000	552000	514000	303000	299000	e178000
30	e148000	e86000	e65000	e54000	---	e46500	e70000	563000	501000	304000	298000	e175000
31	e141000	---	e65000	e54000	---	e46500	---	574000	---	305000	295000	---
TOTAL	7187000	3222000	2255500	1829500	1485500	1471500	1470500	12369000	18012000	11738000	9688000	6802000
MEAN	231800	107400	72760	59020	51220	47470	49020	399000	600400	378600	312500	226700
MAX	334000	138000	85000	64500	54000	49000	70000	574000	645000	488000	335000	294000
MIN	141000	86000	65000	54000	49000	46500	46500	83000	501000	303000	295000	175000
AC-FT	14260000	6391000	4474000	3629000	2946000	2919000	2917000	24530000	35730000	23280000	19220000	13490000
CFSM	0.72	0.33	0.23	0.18	0.16	0.15	0.15	1.24	1.87	1.18	0.97	0.71
IN.	0.83	0.37	0.26	0.21	0.17	0.17	0.17	1.43	2.09	1.36	1.12	0.79

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2004, BY WATER YEAR (WY)#

MEAN	252900	129500	76080	61530	53140	48160	46320	280200	579600	445100	391000	357300
MAX	335900	211800	94840	76000	65360	56770	55000	501700	844600	563500	515800	481300
(WY)	1991	2003	1986	1986	1994	1980	1989	1991	1985	1992	1981	1994
MIN	170600	72500	50000	50000	38380	35160	38430	100200	364400	314000	312500	226700
(WY)	1979	1989	1988	1988	1984	1984	1976	1985	1978	1996	2004	2004

\# See Period of Record, partial years used in monthly statistics
e Estimated

15565447 YUKON RIVER AT PILOT STATION—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1976 - 2004#	
ANNUAL TOTAL	80897500		77530500			
ANNUAL MEAN	221600		211800		226400	
HIGHEST ANNUAL MEAN					253700	1994
LOWEST ANNUAL MEAN					185300	1978
HIGHEST DAILY MEAN	a541000	Jun 18	b645000	Jun 12	ce1100000	Jun 5 1985
LOWEST DAILY MEAN	d48000	Apr 1	f46500	Mar 23	g35000	Feb 23 1984
ANNUAL SEVEN-DAY MINIMUM	48000	Apr 1	46500	Mar 23	35000	Feb 23 1984
MAXIMUM PEAK FLOW			b648000	Jun 12	h1070000	Jun 9 1985
MAXIMUM PEAK STAGE			b25.54	Jun 12	i27.50	Jun 9 1985
MAXIMUM PEAK STAGE					j36.25	May 25 1989
ANNUAL RUNOFF (AC-FT)	160500000		153800000		164000000	
ANNUAL RUNOFF (CFSM)	0.690		0.660		0.705	
ANNUAL RUNOFF (INCHES)	9.38		8.98		9.58	
10 PERCENT EXCEEDS	453000		517000		500000	
50 PERCENT EXCEEDS	126000		133000		130000	
90 PERCENT EXCEEDS	50000		47500		48000	

\# See Period of Record, partial years used in monthly statistics
a Jun. 18-19
b Jun. 12-13
c Jun. 5-8, 1985.
d Apr. 1-26
e Estimated
f Mar. 23 - Apr. 17
g Feb. 23 - Mar. 27, 1984.
h Not determined. See highest daily mean
i Maximum recorded, but may have been higher during period of estimated discharge, Jun. 5-8, 1985
j Backwater from ice.

15565447 YUKON RIVER AT PILOT STATION—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-1956, 1975-96, and April 2001 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: 1976 and 1978, (seasonal).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Time	Location in X-sect. looking dwnstrm ft from l bank (00009)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
APR								
06...	1820	1870	320	6.9	.0	745	2.5	18
06...	1910	1780	318	7.0	.0	745	2.5	17
06...	1925	1600	322	7.0	.0	745	2.6	18
06...	1943	1420	324	7.0	.0	745	2.6	18
06...	2005	1120	324	7.0	.0	745	2.5	17
06...	2017	695	326	7.0	.0	745	2.5	18
MAY								
26...	1740	2080	148	7.6	9.1	--	--	--
26...	1745	1820	147	7.9	9.1	--	--	--
26...	1750	1480	147	7.8	9.0	--	--	--
26...	1755	1100	147	7.8	9.0	--	--	--
26...	1758	620	147	7.8	9.0	--	--	--
JUN								
15...	1440	2150	163	7.3	16.4	767	--	--
15...	1442	1850	163	7.5	16.5	767	--	--
15...	1444	1600	163	7.5	16.5	767	--	--
15...	1446	1220	162	7.5	16.4	767	--	--
15...	1448	700	163	7.5	16.5	767	--	--
29...	1814	2150	186	7.4	18.8	764	8.8	95
29...	1818	1850	195	7.3	18.9	764	8.7	93
29...	1820	1600	197	7.3	18.9	764	8.6	93
29...	1822	1220	196	7.3	18.9	764	8.6	92
29...	1824	700	198	7.3	18.9	764	8.5	92
JUL								
19...	1915	620	221	7.7	19.4	761	8.6	94
19...	1918	1100	219	7.7	19.4	761	8.5	93
19...	1921	1480	220	7.7	19.5	761	8.6	94
19...	1924	1820	212	7.7	19.6	761	8.5	92
19...	1926	2080	208	7.7	19.6	761	8.4	92
AUG								
18...	1154	2050	222	7.7	18.0	--	--	--
18...	1155	1750	235	7.8	18.0	--	--	--
18...	1157	1400	239	7.8	18.0	--	--	--
18...	1159	1050	238	7.8	18.0	--	--	--
18...	1200	600	239	--	18.0	--	--	--
SEP								
22...	1307	600	264	8.0	7.5	748	10.8	92
22...	1309	1000	264	8.0	7.5	748	10.8	92
22...	1311	1400	264	8.0	7.5	748	10.9	92
22...	1313	1700	264	8.0	7.5	748	10.8	92
22...	1315	2000	261	8.0	7.5	748	10.8	92

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Type of repli-cate, code (99105)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)
APR													
07...	1020	9	9	1980	--	46300	20	3060	--	--	323	7.0	3.5
MAY													
26...	1620	9	9	2400	22.10	521000	20	3055	--	--	147	7.8	13.5
JUN													
15...	1520	9	9	3040	25.35	639000	20	3055	--	--	163	7.5	--
29...	1640	9	7	2600	21.69	512000	20	3055	30	10.00	197	7.9	--
JUL													
20...	1030	9	9	2260	15.98	330000	20	3055	--	--	220	7.7	24.5
AUG													
18...	1110	9	9	2300	15.50	330000	20	3055	10	--	238	7.8	25.0
SEP													
22...	1300	9	9	2100	10.62	218000	20	3055	10	--	264	8.0	5.5

15565447 YUKON RIVER AT PILOT STATION—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Temperature, water, deg C (00010)	Turbidity, wat unf lab, Hach 2100AN NTU (99872)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	ANC, wat unf fixed end pt, field, mg/L as CaCO3 (00410)	Potassium, water, fltrd, mg/L (00935)
APR													
07...	.0	5.9	.059	.043	--	2.5	--	170	48.7	11.5	3.95	--	1.52
MAY													
26...	9.0	150	.548	.413	--	--	--	75	22.8	4.43	1.83	--	.96
JUN													
15...	16.5	140	.320	.238	767	7.3	74	87	26.9	4.89	1.77	--	1.08
29...	19.0	170	.222	.164	764	8.6	93	94	28.0	5.69	2.25	--	1.15
JUL													
20...	19.5	450	.094	.068	761	8.5	93	110	32.8	7.34	3.07	76	1.90
AUG													
18...	18.0	350	.086	.062	--	--	--	120	34.5	7.69	3.13	--	1.76
SEP													
22...	7.5	190	.090	.066	748	10.8	92	140	38.2	9.72	3.82	--	1.68

Date	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)
APR													
07...	16	.0	13	27.5	1.32	<.2	12.8	197	117	.002	.188	.100	.22
MAY													
26...	63	.0	52	13.4	.80	<.2	4.96	115	81	.002	.084	<.010	.69
JUN													
15...	77	.0	63	17.9	.75	<.2	5.19	118	97	E.001	.054	E.005	.71
29...	83	.0	68	23.7	.81	<.2	6.36	120	109	E.001	.069	<.010	.79
JUL													
20...	95	.0	76	29.9	1.12	<.2	6.84	E145	130	E.001	.082	E.006	E.41
AUG													
18...	94	.0	77	36.0	1.28	<.2	6.26	155	137	E.001	.082	<.010	.41
SEP													
22...	114	.0	94	36.7	1.13	<.2	7.48	E153	156	E.001	.108	E.014	E.32

Date	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)
APR													
07...	.20	.024	E.002	<.006	M	<.20	.4	80	<.06	10	E.04	<.8	.317
MAY													
26...	.42	.34	.014	<.006	27	E.17	.8	37	<.06	E5	<.04	<.8	.156
JUN													
15...	.27	.50	.010	<.006	15	.26	1.0	41	<.06	E6	<.04	<.8	.143
29...	.17	.31	.007	E.003	14	.25	.9	42	<.06	E8	<.04	<.8	.129
JUL													
20...	E.10	E.43	E.005	E.003	17	.34	.9	49	<.06	13	<.04	<.8	.119
AUG													
18...	E.08	.24	.004	<.006	15	.30	.9	51	<.06	14	<.04	<.8	.108
SEP													
22...	E.12	E.18	E.005	E.003	7	.27	.8	54	<.06	18	<.04	<.8	.140

Date	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)
APR													
07...	1.2	91	<.08	3.1	143	.8	2.70	E.3	<.2	200	.6	3.0	.85
MAY													
26...	5.4	306	.20	1.8	16.4	.5	2.31	E.2	<.2	88.6	.7	2.3	.52
JUN													
15...	3.6	123	.11	1.9	14.3	.7	1.57	E.3	<.2	93.6	.8	E.5	.51
29...	2.9	141	.09	2.2	5.4	.9	1.45	E.4	<.2	95.0	.7	2.0	.64
JUL													
20...	1.8	14	<.08	3.4	.5	1.5	1.04	.7	<.2	132	.8	<.6	.94
AUG													
18...	1.9	25	<.08	3.3	1.9	1.4	.86	E.4	<.2	139	.9	E.4	.89
SEP													
22...	1.3	64	<.08	3.7	15.3	1.3	.94	.4	<.2	161	.8	<.6	.99

15565447 YUKON RIVER AT PILOT STATION—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2003 TO SEPTEMBER 2004

Date	Organic carbon, water, fltrd, mg/L (00681)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Total carbon, suspnd sedimnt total, mg/L (00694)	Particulate nitrogen, susp, water, mg/L (49570)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)
APR								
07...	2.2	<.1	.6	.6	.05	5	625	97
MAY								
26...	13.9	.3	5.2	5.5	.34	339	477000	75
JUN								
15...	9.1	.3	4.1	4.4	.26	514	887000	68
29...	6.2	.3	4.5	4.8	.30	299	413000	84
JUL								
20...	E3.1	E4.4	E4.3	E8.8	E.30	--	--	--
AUG								
18...	2.6	5.4	3.7	9.0	.25	499	445000	96
SEP								
22...	E2.7	E.7	E4.1	E4.8	E.22	--	--	--