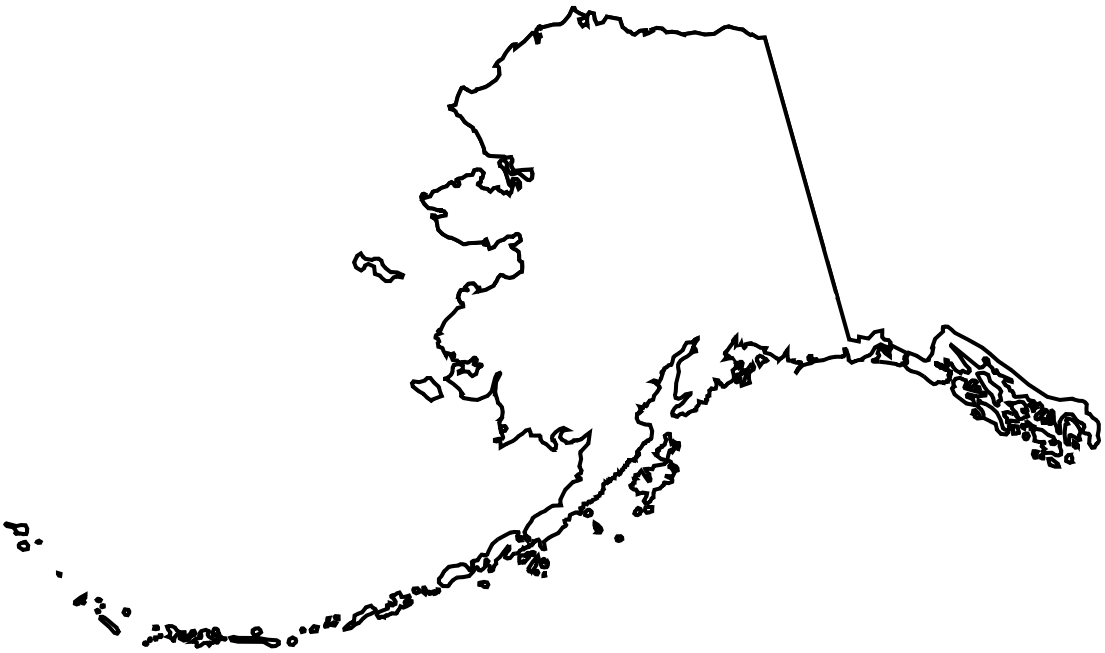
U.S. Department of the Interior
U.S. Geological Survey

Water Resources Data
Alaska
Water Year 2000

By D.F. Meyer, D.L. Hess, M.F. Schellekens, C.W. Smith, E.F. Snyder, and G.L. Solin

Water-Data Report AK-00-1



Prepared in cooperation with the State of Alaska
and with other agencies

WATER RESOURCES DATA FOR ALASKA, 2000

PREFACE

This volume of the annual hydrologic data report of Alaska is one of a series of annual reports that document hydrologic data gathered from the U.S. Geological Survey's surface- and ground-water data-collection networks in each state, Puerto Rico, and the Trust Territories. These records of streamflow, ground-water levels, and water quality provide the hydrologic information needed by state, local, and Federal agencies, and the private sector for developing and managing our Nation's land and water resources.

The report is the culmination of a concerted effort by dedicated personnel of the U.S. Geological Survey (USGS) who collected, compiled, analyzed, verified, and organized the data, and who revised, edited, typed, illustrated, and assembled the report. The authors had primary responsibility for assuring that the information contained herein is accurate, complete, and adheres to Geological Survey policy and established guidelines. Most of the data were collected, computed, and processed from field offices. Chiefs-in-charge of the field offices are:

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13. ABSTRACT *(Maximum 200 words)*

Water-resources data for the 2000 water year for Alaska consists of records of stage, discharge, and water quality of streams; stages of lakes; and water levels and water quality of ground-water wells. This volume contains records for water discharge at 106 gaging stations; stage or contents only at 4 gaging stations; water quality at 31 gaging stations; and water levels for 30 observation wells and 1 water-quality well. Also included are data for 47 crest-stage partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Alaska.

14. SUBJECT TERMS
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SURFACE-WATER STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

Note--Data for partial-record stations and miscellaneous sites for both surface-water quantity and quality are published in separate sections of the data report. See end of this list for page numbers for these sections.

[Letters after station name designate type of data: (d) discharge, (c) chemical, (i) intragravel-water temperature, (m) microbiological, (t) water temperature, (s) sediment, (e) elevation, gage height, or contents]

	Station number
SOUTHEAST ALASKA	
MAINLAND STREAMS	
Tyee Lake Outlet near Wrangell (d)	15019990
Harding River near Wrangell (d)	15022000
Stikine River near Wrangell (d)	15024800
Dorothy Lake Outlet (head of Dorothy Creek) near Juneau (d, t)	15039900
Taku River near Juneau (d, t, c)	15041200
Gold Creek at Juneau (d, c)	15050000
Salmon Creek near Juneau (d)	15051010
Jordan Creek below Egan Drive near Auke Bay (d, t, s)	15052475
Mendenhall River	
Nugget Creek above Diversion near Auke Bay (d)	15052495
Mendenhall River near Auke Bay (d)	15052500
Duck Creek below Nancy Street near Auke Bay (d, t, s)	15053200
Antler River below Antler Lake near Auke Bay (d)	15055500
Kakuhan Creek near Haines (d, t)	15056030
Kahtaheena River above Upper Falls near Gustavus	15057580
Kahtaheena River near Gustavus (d, t, c, s)	15057590
STREAMS ON REVILLAGIGEDO ISLAND	
Swan Lake near Ketchikan (d, e)	15070000
Fish Creek near Ketchikan (d)	15072000
STREAMS ON PRINCE OF WALES ISLAND	
Staney Creek	
North Fork Staney Creek near Klawock (d, t)	15081495
Staney Creek near Klawock (d, t)	15081497
Threemile Creek near Klawock (d)	15081610
Reynolds Creek below Lake Mellen near Hydaburg (d)	15081995
Old Tom Creek near Kasaan (d, t)	15085100
STREAMS ON WORONKOFSKI ISLAND	
Sunrise Lake Outlet near Wrangell (d, t)	15086960
Indian River near Sitka (d)	15087690
Indian River at Sitka (d)	15087700

SOUTHEAST ALASKA--Continued

Indian River Diversion to Sheldon Jackson College at Sawmill Creek Road at Sitka (d) 15087730
Indian River Diversion Return Flow from Sheldon Jackson College at Sitka (d) 15087735
Silver Bay Tributary at Bear Cove near Sitka (d) 15088200
STREAMS ON BARANOF ISLAND
Green Lake near Sitka (d) 15090000
STREAMS ON ADMIRALTY ISLAND
Greens Creek at Greens Creek Mine near Juneau (d) 15101490
STREAMS ON CHICHAGOF ISLAND
Kadashan River above Hook Creek near Tenakee (d, t) 15106920
Middle Basin Creek near Tenakee (d) 15106970
STREAMS ON DOUGLAS ISLAND
Peterson Creek below North Fork near Auke Bay (d) 15109048
MAINLAND STREAMS
Alsek River near Yakutat (d, t) 15129000
Situk River near Yakutat (d, t) 15129500
Ophir Creek near Yakutat (d) 15129600

SOUTH-CENTRAL ALASKA

MAINLAND STREAMS
Copper River
Gulkana River at Sourdough (d) 15200280
Nicolet Creek near Cordova (d) 15215990
Solomon Lake (head of Solomon Gulch) near Valdez (e) 15225990
Solomon Gulch tailrace near Valdez (d) 15225996
Solomon Gulch at top of falls near Valdez (d) 15225997
Solomon Gulch near Valdez (d) 15226000
Hobo Creek near Whittier (d) 15236000
Resurrection River
Salmon Creek
Lost Creek
Grouse Creek at Grouse Lake Outlet near Seward (d) 15237730
Spruce Creek near Seward (d) 15238600
Upper Nuka River near park boundary near Homer (d) 15238648
Battle Creek
Battle Creek diversion above Bradley Lake near Homer (d) 15238978
Bradley River
Upper Bradley River near Nuka Glacier near Homer (d) 15238990
Bradley River near Homer (d, e) 15239000
Bradley River below dam near Homer (d) 15239001
Middle Fork Bradley River near Homer (d) 15239050
Middle Fork Bradley River below North Fork Bradley River near Homer (d) 15239060

SOUTH-CENTRAL ALASKA-Continued

Bradley River near Tidewater near Homer (d) 15239070
Ninilchik River at Ninilchik (d, t, c, s, b). 15241600
Kenai River
Snow River near Seward (d) 15243900
Kenai River at Cooper Landing (d) 15258000
Cooper Creek at mouth near Cooper Landing (d, t) 15261000
Kenai River below Skilak Lake Outlet near Sterling (d, c, t) 15266110
Kenai River below mouth of Killey River near Sterling (d) 15266150
Kenai River at Soldotna (d, c, t, s) 15266300
Sixmile Creek near Hope (d) 15271000
Portage Creek at Portage Lake outlet near Whittier (d). 15272280
Campbell Creek
South Fork Campbell Creek near Anchorage (d, t, c, s, b) 15274000
Chester Creek at Arctic Boulevard at Anchorage (d, t, c, s, b) 15275100
Ship Creek near Anchorage (d) 15276000
Eklutna Lake (head of Eklutna River) near Palmer (e) 15278000
Matanuska River
Camp Creek near Sheep Mountain Lodge (d, t) 15281500
Moose Creek near Palmer (d, c, s, b). 15283700
Matanuska River near Palmer (d) 15284000
Cottonwood Creek near Wasilla (d). 15286000
Little Susitna River near Palmer (d) 15290000
Susitna River
Talkeetna River near Talkeetna (d) 15292700
Deshka River near Willow (d, t, c, s, b). 15294100
Johnson River above Lateral Glacier near Tuxedni Bay (d, c, t, s) 15294700
STREAMS ON KODIAK ISLAND
Terror River at mouth near Kodiak (d, t). 15295700

SOUTHWEST ALASKA

MAINLAND STREAMS

Russell Creek near Cold Bay (d, t) 15297610
Kvichak River
Iliamna River near Pedro Bay (d) 15300300
Kuskokwim River
Takotna River
Tatalina River near Takotna (d, t). 15303700
Kuskokwim River at Liskys Crossing near Stony River (e) 15303900
Kuskokwim River at Crooked Creek (d) 15304000
Kuskokwim River at Aniak (e, t). 15304060

YUKON ALASKA

Yukon River
Fortymile River
South Fork Fortymile River
Walker Fork
Wade Creek
Wade Creek Tributary near Chicken (d) 15320100
Yukon River at Eagle (d). 15356000
Nation River near Nation (d) 15388030
Kandik River near Nation (d). 15388060
Porcupine River near International Boundary, Yukon Territory (d) 15388960
Yukon River near Stevens Village (d) 15453500
Tanana River
Goodpaster River
Liese Creek near Big Delta (d) 15477730
Goodpaster River near Big Delta (d) 15477740
Upper West Creek near Big Delta (d) 15477761
Central Creek
Sonora Creek near Big Delta (d) 15477770
Central Creek near Big Delta (d). 15477790
Delta River
Phelan Creek near Paxson (d) 15478040
Salcha River near Salchaket (d) 15484000
Tanana River at Fairbanks (d) 15485500
Chena River
Chena River near Two Rivers (d). 15493000
Little Chena River near Fairbanks (d). 15511000
Chena River at Fairbanks (d) 15514000
Tanana River at Nenana (d) 15515500
Nenana River
Lignite Creek above mouth near Healy (d,s). 15518080
Koyukuk River
Middle Fork Koyukuk River
Slate Creek at Coldfoot (d, t). 15564879

NORTHWEST ALASKA

Unalakleet River above Chiroskey River near Unalakleet (d, t) 15565700
Kobuk River
Dahl Creek near Kobuk (d) 15743850
Kobuk River near Kiana (d). 15744500
Wulik River
Ikalukrok Creek below Red Dog Creek near Kivalina (d). 15746991

ARCTIC SLOPE ALASKA

Nunavak Creek near Barrow (d) 15798700
Kuparuk River near Deadhorse (d) 15896000
Sagavanirktok River
Sagavanirktok River tributary near Pump Station 3 (d). 15906000
Sagavanirktok River near Pump Station 3 (d) 15908000

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GROUND-WATER WELLS, BY HYDROLOGIC SUBREGION,
FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

GROUND-WATER LEVELS

SOUTHEAST ALASKA

Juneau

Well 582131134343101 Local number CD04006631ACDC2002
Well 582136134344802 Local number CD04006631ACBC1015
Well 582138134353801 Local number, CD04006631BCBC
Well 582140134353501 Local number, CD04006636CCBC
Well 582140134353801 Local number, CD04006636CCBC
Well 582142134351701 Local number, CD04006631DCBD
Well 582142134352401 Local number, CD04006631CDAD
Well 582142134352801 Local number, CD04006631DDAD
Well 582146134351701 Local number CD04006631BBDD1016
Well 582147134351401 Local number CD04006631BBDB1017
Well 582154134350501 Local number CD04006630CDCB1027
Well 582156134351701 Local number CD04006631BBBA1018
Well 582158134352001 Local number CD04006630CCCD2017
Well 582159134343701 Local number CD04006630DCCA1035
Well 582203134351601 Local number CD04006630CCDB1028
Well 582203134351701 Local number CD04006630CCBD3015
Well 582203134351901 Local number CD04006630CCBD2015
Well 582206134351401 Local number CD04006630CCAC1029
Well 582208134351201 Local number CD04006630CCAB1030
Well 582208134352601 Local number CD04006630CCBB1031
Well 582215134350501 Local number CD04006630CBAD1032
Well 582256134340401 Local number CD04006619DDBD1054
Well 582322134341001 Local number CD04006619ACAB1050
Well 582326134341901 Local number CD04006619ADBA1011
Well 582359134352103 Local number CD04006618CBCA3019 AK register number 85177

GROUND-WATER LEVELS--Continued

SOUTH-CENTRAL ALASKA
Municipality of Anchorage
Well 611725149335401 Local number SB01400223BCCD1003 CBR KB-6
Matanuska-Susitna Borough
Well 613847149131801 Local number SB SA01800114CDAA1

YUKON ALASKA
Fairbanks North Star Borough
Well 644400147151501 Local number FD00200224ABBB1001 AK register number 51659
Well 645434147385101 Local number FB00100113DDBC2001 AK register number 50673
Well 644528147131201 Local number FD00200307ACBD1001 AK register number 51660

QUALITY OF GROUND WATER

SOUTH-CENTRAL ALASKA
Matanuska-Susitna Borough
Well 613847149131801 Local number SB SA01800114CDAA1

DISCONTINUED SURFACE-WATER DISCHARGE OR STAGE-ONLY STATIONS

The following continuous-record surface-water discharge or stage-only stations (gaging stations) in Alaska have been discontinued. Daily streamflow or stage records were collected and published for the period of record, expressed in water years, shown for each station. Those stations with an asterisk (*) after the station number are currently operated as crest-stage partial-record stations. Short-term, seasonal, and fragmented records for data collected at 190 sites in Alaska west of 141 degrees longitude during water years 1906-14 have not been entered into NWIS and are not included in this list. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

[Letters after station name designate type of data collected: (d) discharge, (e) elevation (stage only)]

Discontinued surface-water discharge or stage-only stations
[Footnotes at end of table on p. xxiii]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTHEAST ALASKA			
Salmon River near Hyder (d)	15008000	a94	1963-73
Davis River near Hyder (d)	15010000	a80	1930-40
Red River near Metlakatla (d)	15011500	45.3	1963-78
White Creek near Ketchikan (d)	15011870	2.70	1977-84
Keta River near Ketchikan (d)	15011880	74.2	1977-84
Blossom River near Ketchikan (d)	15011894	68.1	1981-84
Winstanley Creek near Ketchikan (d)	15012000	15.5	1936-38 1947-75
Punchbowl Lake Outlet near Ketchikan (d)	15014000	a12	1924-30
Klahini River near Bell Island (d)	15015600	58.0	1967-73
Short Creek near Bell Island at Short Bay (d)	15016000	a20	1922-26
Shelokum Lake Outlet near Bell Island (d)	15018000	15.6	b1915-25
Tyee Creek near Wrangell (d)	15020000	ar15.2	c1922-27
Tyee Creek at Mouth near Wrangell (d)	15020100	16.1	1963-69
East Fork Bradfield River near Wrangell (d)	15020500	63.3	1979-81
Mill Creek near Wrangell (d)	15024000	a37	1915-17 c1923-28
Goat Creek near Wrangell (d)	15024750	17.3	1976-86
Cascade Creek near Petersburg (d)	15026000	23.0	1918-29 1947-73
Scenery Creek near Petersburg (d)	15028000	30.0	1949-52
Farragut River near Petersburg (d)	15028300	151	1977-93
Sweetheart Falls Creek near Juneau (d)	15030000	r36.3	b1915-27
Long Lake near Juneau (e)	15031700	30.2	1965-75
Long Lake Outlet near Juneau (d)	15032000	30.2	1913-16
Long River near Juneau (d)	15034000	32.5	1916-24 b1927-33 1952-68 R1969-73
Speel River near Juneau (d)	15036000	226	1916-18 1960-75
Crater Creek near Juneau (d)	15038000	11.4	b1913-21 c1923-24 1927-33

Discontinued surface-water discharge or stage-only stations--Continued
[Footnotes at end of table on p. xxiii]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTHEAST ALASKA--Continued			
Dorothy Creek near Juneau (d)	15040000	15.2	1929-41 c1942-44 1945-67
Carlson Creek at Sunny Cove near Juneau (d)	15042000	22.3	c1914 b1916-21
Carlson Creek near Juneau (d)	15044000	24.3	1951-61
Grindstone Creek near Juneau (d)	15046000	r3.75	1916-21
Sheep Creek near Juneau (d)	15048000	4.57	1911-14 1916-21 1947-73
Gold Creek near Juneau (d)**	15049900	8.41	1984-97
Salmon Creek above Canyon Mouth near Juneau (d)	15051008	9.50	R1982-90
Lemon Creek near Juneau (d)	15052000	12.1	b1951-73
Lemon Creek near Mouth near Juneau (d)	15052009	22.9	1983-86
Montana Creek near Auke Bay (d)	15052800*	15.5	1965-75 1983-87
Lake Creek at Auke Bay (d)	15053800	2.50	1964-73
Auke Creek at Auke Bay (d)	15054000	3.96	1947-50 1962-75
Herbert River near Auke Bay (d)	15054200	56.9	1967-71
Bridget Cove Tributary near Auke Bay (d)	15054600	0.95	1971-73
Davies Creek near Auke Bay (d)	15054990	15.2	1970-72
Sherman Creek at Comet (d)	15056000	3.65	1914-17
Dayebas Creek near Haines (d)	15056070	9.33	1980-81
Goat Lake Outlet near Skagway (d)	15056095	2.92	1991-97
Skagway River at Skagway (d)	15056100	a145	1964-86
West Creek near Skagway (d)	15056200	43.2	1962-77
Taiya River near Skagway (d)	15056210	179	1970-78
Upper Chilkoot Lake Outlet near Haines (d)	15056280	4.59	1993-97
Chilkat River at Gorge near Klukwan (d)	15056400	a190	1962-68
Chilkat River near Klukwan (d)	15056500	a760	1959-61
Klehini River near Klukwan (d)	15056560	284	1982-93
Purple Lake Outlet near Metlakatla (d)	15058000	6.67	1947-56
Whipple Creek near Ward Cove (d)	15059500	5.29	1968-80
Perseverance Creek near Wacker (d)	15060000	2.81	b1932-39 1947-69
Ward Creek near Wacker (d)	15062000	14.0	1949-53 R1954-58
Ketchikan Creek at Ketchikan (d)	15064000	13.5	R1910-12 bR1915-20 R1965-67

Discontinued surface-water discharge or stage-only stations--Continued
[Footnotes at end of table on p. xxiii]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTHEAST ALASKA--Continued			
Beaver Falls Creek near Ketchikan (d)	15066000	5.8	c1917 1920-26 1928-32
Upper Mahoney Lake Outlet near Ketchikan (d)	15067900	2.03	1977-89
Mahoney Creek near Ketchikan (d)	15068000	5.70	b1920-34 1948-58 1978-81
Swan Lake (Falls Creek) near Ketchikan (d)	15070000#	36.5	b1916-34 1947-59
Ella Creek near Ketchikan (d)	15074000	19.7	1928-38 1947-58
Manzanita Creek near Ketchikan (d)	15076000	33.9	1928-37 1947-67
Grace Creek near Ketchikan (d)	15078000	30.2	1928-37 1964-69
Orchard Creek near Bell Island (d)	15080000	a59	1915-27
Traitors River near Bell Island (d)	15080500	20.8	1964-68
Staney Creek near Craig (d)	15081500	51.6	1965-81
Bonnie Creek near Klawock (d)	15081510	2.72	1981
Black Bear Lake Outlet near Klawock (d)	15081580	1.82	1980-91
Klawak River near Klawock (d)	15081620	46.1	1977
North Branch Trocadero Creek near Hydaburg (d)	15081800	17.4	1967-73
Reynolds Creek near Hydaburg (d)	15082000	a5.7	1951-56
Perkins Creek near Metlakatla (d)	15083500	3.38	1976-93
Myrtle Creek at Niblack (d)	15084000	--	1917-21
Saltery Creek near Kasaan (d)	15085000	5.53	1962-64
Cabin Creek near Kasaan (d)	15085300	8.83	1962-64
Virginia Creek near Kasaan (d)	15085400	3.08	1962-64
Indian Creek near Hollis (d)	15085600	8.82	1949-64
Harris River near Hollis (d)	15085700	28.7	1949-64
Maybeso Creek at Hollis (d)	15085800	15.1	1949-63
Wolf Lake Outlet near Hollis (d)	15085900	1.64	1995-98
Karta River near Kasaan (d)	15086000	49.5	1915-23
Neck Creek near Point Baker (d)	15086500	17.0	1960-67
Big Creek near Point Baker (d)	15086600	11.2	1964-81
Mill Creek at Wrangell (d)	15087000	0.09	1965-67
Hammer Slough at Petersburg (d)	15087200	1.46	1965-67
Municipal Watershed Creek near Petersburg (d)	15087545	2.20	1979-88
No Name Creek near Petersburg (d)	15087560	3.17	1971-73
Hamilton Creek near Kake (d)	15087570	65.0	1977-86 1988-96

Discontinued surface-water discharge or stage-only stations--Continued
[Footnotes at end of table on p. xxiii]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTHEAST ALASKA--Continued			
Rocky Pass Creek near Point Baker (d)	15087590	2.72	1977-88
Nakwasina River near Sitka (d)	15087610	31.9	1977-82
Sawmill Creek near Sitka (d)	15088000	39.0	c1920-23 1928-42 1946-57
Green Lake (outlet) near Sitka (d)	15090000#	r22.8	1915-25
Maksoutof River near Port Alexander (d)	15092000	a26	1951-56
Betty Lake Outlet near Port Armstrong (d)	15093200	2.66	1978-81
Sashin Creek near Big Port Walter (d)	15093400	3.72	1965-73 1975-80
East Branch Lovers Cove Creek Diversion near Big Port Walter (d)	15093600	--	1965-71
Deer Lake Outlet near Port Alexander (d)	15094000	7.41	1951-68
Coal Creek near Baranof (d)	15096000	28.5	b1922-27
Baranof River at Baranof (d)	15098000	32.0	1915-28 1958-74
Takatz Creek near Baranof (d)	15100000	17.5	1951-69
Nichols Creek near Angoon (d)	15100500	a0.12	1981
Stephens Creek near Angoon (d)	15100510	a0.14	1981
Kalinin Bay Tributary near Sitka (d)	15101200	2.28	1976-80
Greens Creek near Juneau (d)	15101500	22.8	1979-92
Hasselborg Creek near Angoon (d)	15102000	56.2	1951-68
Porcupine River near Chichagof (d)	15104000	7.12	1918-20
Falls Creek near Chichagof (d)	15106000	6.48	1918-20
Black River near Pelican (d)	15106100	24.7	1978-82
Hook Creek above Tributary near Tenakee (d)	15106940	4.48	1967-80
Hook Creek near Tenakee (d)	15106960	8.00	1966-80
Tonalite Creek near Tenakee (d)	15106980	14.5	1968-88
Kadashan River near Tenakee (d)	15107000	37.7	1964-79
West Fork Indian River near Tenakee (d)	15107910	3.02	1979-81
Indian River near Tenakee (d)	15107920	12.9	1976-82
Pavlof River near Tenakee (d)	15108000	24.3	1957-81
Hilda Creek near Douglas (d)	15108600	2.62	1967-71
Lawson Creek at Douglas (d)	15108800	2.98	1967-71
Fish Creek near Auke Bay (d)	15109000	13.6	1959-78
SOUTH-CENTRAL ALASKA			
Dick Creek near Cordova (d)	15195000	7.95	1970-81
Gakona River at Gakona (d)	15200000	a620	c1948
Tazlina River near Glennallen (d)	15202000	a2670	1949-50 1952-72

Discontinued surface-water discharge or stage-only stations--Continued
[Footnotes at end of table on p. xxiii]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTH-CENTRAL ALASKA--Continued			
Klutina River at Copper Center (d)	15206000	a880	c1913 1949-67 c1970
Little Tonsina River near Tonsina (d)	15207800	22.7	1972-78
Tonsina River at Tonsina (d)	15208000	a420	b1950-82
Squirrel Creek at Tonsina (d)	15208100	70.5	1965-75
West Fork Kennicott River at McCarthy (d)	15209700	---	c1992-95
East Fork Kennicott River at McCarthy (d)	15209800	---	c1991-92
Tebay River near Chitina (d)	15211500	a55.4	1962-65
Copper River near Chitina (d)	15212000	a20600	c1950 c1952-53 1956-90
Copper River at Million Dollar Bridge near Cordova (d)	15214000	24200	b1907-10 c1913 1988-95
Heney Creek at canyon mouth near Cordova (d)	15215992	1.53	1992-93
Power Creek near Cordova (d)	15216000	20.5	c1913 1947-95
Middle Arm Eyak Lake Tributory near Cordova (d)	15216003	2.90	1992-93
Murchison Creek near Cordova (d)	15216008	a0.37	1992-93
Humpback Creek near Cordova (d)	15216100	4.37	c1913 1974-75
West Fork Olsen Bay Creek near Cordova (d)	15219000	4.78	1964-81
Duck River at Silver Lake Outlet near Valdez (d)	15223900	25.1	1982-85
Duck River near Tidewater near Valdez (d)	15224000	26.7	c1913-14 1982-85
Solomon Gulch Bypass near Valdez (d)	15225998	---	c1986-94
Lowe River near Valdez (d)	15226500	201	1971-74
Lowe River in Keystone Canyon near Valdez (d)	15226600	222	1975-76
Wolverine Creek near Lawing (d)	15236900	9.51	1966-78 1980-81 1997-98
Nellie Juan River near Hunter (d)	15237000	133	1961-65
Main Bay Creek near Port Nellie Juan (d)	15237020	5.93	1981-84
San Juan River near Seward (d)	15237360	12.4	1986-96
Resurrection River at Seward (d)	15237700	169	1965-68
Bear Creek Tributary near Seward (d)	15237800	1.63	1967-68
Lost Creek near Seward (d)	15238000	8.42	1948-50
Lowell Creek above city wells at Seward (d)	1523849020	3.73	1993-95
Lowell Creek at Seward (d)	15238500	4.02	1965-68
Nuka River near Tidewater near Homer (d)	15238653	a38	1984-85

Discontinued surface-water discharge or stage-only stations--Continued
[Footnotes at end of table on p. xxiii]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTH-CENTRAL ALASKA--Continued			
Seldovia River near Seldovia (d)	15238795	26.2	1979-80
Barabara Creek near Seldovia (d)	15238820	20.7	1972-92
Tutka Lagoon Creek near Homer (d)	15238860	10.8	1973-76
Battle Creek below Glacier near Homer (d)	15238982	g11.8	1991-93
South Fork Battle Creek near Homer (d)	15238984	a6.5	1991-93
Battle Creek near Tidewater near Homer (d)	15238985	ag21	1991-93
Fritz Creek near Homer (d)	15239500*	10.4	1967-70 1986-92
Twitter Creek near Homer (d)	15239880	16.1	1971-73
Anchor River near Anchor Point (d)	15239900*	137	1965-73 1979-86 1991-92
Anchor River at Anchor Point (d)	15240000	224	1953-66
Kasilof River near Kasilof (d)	15242000	738	1949-70
Snow River near Divide (d)	15243500	a99.8	1961-65
Ptarmigan Creek at Lawing (d)	15244000	32.6	1947-58
Grant Creek near Moose Pass (d)	15246000	44.2	1947-58
Trail River near Lawing (d,e)	15248000	181	d1947-74 e1975-77
Crescent Creek near Moose Pass (d)	15253000	21.4	1957-60
Crescent Creek near Cooper Landing (d)	15254000	31.7	1949-66
Cooper Creek near Cooper Landing (d)	15260000	31.8	1949-59
Stetson Creek near Cooper Landing (d)	15260500	a8.6	1958-63
Russian River near Cooper Landing (d)	15264000	61.8	1947-54
Beaver Creek near Kenai (d)	15266500	a51	1968-78
Bernice Lake near Kenai (e)	15266895	--	1977-79
Bishop Creek near Kenai (d)	15267000	a24.2	1977-79
Resurrection Creek near Hope (d)	15267900	149	1968-86
Resurrection Creek at Hope (d)	15268000	162	1950-51
Glacier Creek at Girdwood (d)	15272550	r58.2	1965-78
Rabbit Creek at Anchorage (d)	15273050	a15	1979-80 1984-85
Little Rabbit Creek above Goldenview Drive at Anchorage (d)	15273095	5.06	1981-85
Little Rabbit Creek at Anchorage (d)	15273102	5.94	1979-80
Rabbit Creek at New Seward Highway at Anchorage (d)	15273105	a24.5	1984-86
South Fork Campbell Creek at Canyon Mouth near Anchorage (d)	15273900	25.2	1967-79
North Fork Campbell Creek near Anchorage (d)	15274300	13.4	1974-84
Little Campbell Creek at Nathan Drive near Anchorage (d)	15274550	a15	c1981 1986-92
Campbell Creek near Spenard (d)	15274600	69.7	1966-93

Discontinued surface-water discharge or stage-only stations--Continued
[Footnotes at end of table on p. xxiii]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTH-CENTRAL ALASKA--Continued			
Sand Lake near Spenard (e)	15274700	--	c1967-74
South Branch South Fork Chester Creek near East 20th Ave. at Anchorage (d)	15274798	9.39	1981-84
Chester Creek at Anchorage (d)	15275000	20.0	1958-76
Ship Creek at Elmendorf Air Force Base near Anchorage (d)	15276500	113	1963-71
Ship Creek below Power Plant at Elmendorf Air Force Base (d)	15276570	115	1971-81
Ditch on Elmendorf Air Force Base (d)	15276650	3.73	1973-75
Eagle River at Eagle River (d)	15277100	a192	1966-81
Peters Creek near Birchwood (d)	15277410	87.8	1973-83
East Fork Eklutna Creek near Palmer (d)	15277600	538.2	1960-62 1985-89
West Fork Eklutna Creek near Palmer (d)	15277800	25.4	1960-62 1985-89
Eklutna Creek near Palmer (d)	15280000	119	1947-54 R1955-62
Knik River near Palmer (d)	15281000	a1180	1960-88 1992
Caribou Creek near Sutton (d)	15282000	289	1955-78
Palmer Hayflat at railroad near Palmer (e)	15284500		1992-97
Susitna River near Denali (d)	15291000	a950	1957-66 1968-86
Maclaren River near Paxson (d)	15291200	a280	1958-86
Susitna River near Cantwell (d)	15291500	a4140	1961-72 1980-86
Susitna River at Gold Creek (d)	15292000	a6160	1949-96
Chulitna River near Talkeetna (d)	15292400	a2570	1958-72 1980-86
Susitna River at Sunshine (d)	15292780	a11100	1981-86
Willow Creek near Willow (d)	15294005	166	1978-93
Deception Creek near Willow (d)	15294010	48.0	1978-85
Skwentna River near Skwentna (d)	15294300	a2250	1960-82
Yentna River near Susitna Station (d)	15294345	a6180	1981-86
Susitna River at Susitna Station (d)	15294350	a19400	1975-93
Capps Creek below North Capps Creek near Tyonek (d)	15294410	10.5	1979-85
Chuitna River near Tyonek (d)	15294450	131	1976-86
Chakachatna River near Tyonek (d)	15294500	a1120	1959-72
Montana Bill Creek at pipeline near Kenai (d)	15294585	--	c1991-92
Paint River near Kamishak (d)	15294900	205	1983-85 1989 1991-95
Little Kitoi Creek near Afognak (d)	15295500	2.63	1960-61

Discontinued surface-water discharge or stage-only stations--Continued
[Footnotes at end of table on p. xxiii]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTH-CENTRAL ALASKA--Continued			
Terror River near Kodiak (d)	15295600	15.0	1962-68 1978-82 R1983-86
Uganik River near Kodiak (d)	15296000	123	1951-78
Spiridon Lake Outlet near Larsen Bay (d)	15296300	23.3	1962-65
Larsen Bay Creek near Larsen Bay (d)	15296480	3.92	1980-84
Falls Creek near Larsen Bay (d)	15296500	5.67	1974-75
Canyon Creek near Larsen Bay (d)	15296520	8.82	1974-76
Upper Thumb River near Larsen Bay (d)	15296550	18.8	1974-82
Karluk River at Outlet near Larsen Bay (d)	15296600	100	1975-76 1979-82
Akalura Creek at Olga Bay (d)	15296950	18.4	1975-76
Dog Salmon Creek near Ayakulik (d)	15297000	72.9	1960-61
Hidden Basin Creek near Port Lions (d)	15297100	3.01	1982-84
Hidden Basin Creek near Mouth near Kodiak (d)	15297110	11.9	1983-84
Myrtle Creek near Kodiak (d)	15297200*	4.74	1963-86
Middle Fork Pillar Creek near Kodiak (d)	15297450	2.02	1969-70
Monashka Creek near Kodiak (d)	15297470	5.51	1972 R1973-76
Falls Creek near Port Lions (d)	15297482	a4.3	1981-83
Kizhuyak River near Port Lions (d)	15297485	42.5	1980-94
SOUTHWEST ALASKA			
Whiskey Bills Creek near Sand Point (d)	15297602	a0.30	1983-84
Humboldt Creek at Sand Point (d)	15297603	a5.2	1983-84
Sweeper Creek at Adak (d)	15297617	1.0	1992-96
Moffett Creek at Adak (d)	15297625	4.5	1993-96
Limpet Creek on Amchitka Island (d)	15297640	1.69	1968-72
Falls Creek on Amchitka Island (d)	15297650	0.86	1968-72
Clevenger Creek on Amchitka Island (d)	15297655	0.28	1968-74
Constantine Spring Creek on Amchitka Island (d)	15297660	--	1968-73
Bridge Creek on Amchitka Island (d)	15297680	3.03	1968-74
White Alice Creek on Amchitka Island (d)	15297690	0.79	1968-74
Lake Creek at Shemya Air Force Base (d)	15297767	a1.0	1971-73
Gallery Spring at Shemya Air Force Base (d)	15297771	--	1971-72
Gallery Creek at Shemya Air Force Base (d)	15297773	a1.0	1971-73
Eskimo Creek at King Salmon (d)	15297900	16.1	1973-76 1978-84
Tanalian River near Port Alsworth (d)	15298000	a200	1951-56
Tazimina River near Nondalton (d)	15299900	327	1981-86

Discontinued surface-water discharge or stage-only stations--Continued
[Footnotes at end of table on p. xxiii]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTHWEST ALASKA--Continued			
Newhalen River near Iliamna (d)	15300000	3478	1951-67 1982-86
Kvichak River at Igiugig (d)	15300500	a6500	1967-87
Allen River near Aleknagik (d)	15301500	278	1963-66
Nuyakuk River near Dillingham (d)	15302000	1490	1953-96
Nushagak River at Ekwok (d)	15302500	a9850	1978-93
Grant Lake Outlet near Aleknagik (d)	15302800	r34.3	1959-65
Elva Lake Outlet near Aleknagik (d)	15302840	9.00	1980-82
Wood River near Aleknagik (d)	15303000	a1110	1957-70
Silver Salmon Creek near Aleknagik (d)	15303010	4.46	1985-86 c1988-89
Wood River Tributary near Aleknagik (d)	15303011	3.35	c1990 c1992-93
East Creek near Dillingham (d)	15303100	2.12	1973-75
Snake River near Dillingham (d)	15303150	113	1973-83
Kuskokwim River at McGrath (d)	15303600	a11700	1963-73
Kisaralik River near Akiak (d)	15304200	265	1980-87
Browns Creek near Bethel (d)	15304293	4.79	c1985-94
Browns Creek at Bethel (d)	15304298	10.5	c1985
YUKON ALASKA			
King Creek near Dome Creek (d)	15344000*	5.87	1983-90
Fortymile River near Steele Creek (d)	15348000	a5880	c1910-12 1976-82
Porcupine River at Old Crow, Yukon Territory, Canada (d)	15388950	a21400	f1980-89
Porcupine River near Fort Yukon (d)	15389000	a29500	1964-79
Chandalar River near Venetie (d)	15389500	a9330	1963-73
Boulder Creek near Central (d)	15439800*	31.3	1966-82 1984-86
Hess Creek near Livengood (d)	15457800	662	1970-78 1982-86
Yukon River at Rampart (d)	15468000	a199400	1955-67
Chisana River at Northway Junction (d)	15470000	a3280	1949-71
Tanana River near Tok Junction (d)	15472000	a6800	1950-53
Tok River near Tok Junction (d)	15474000	a930	1952-54
Tanana River near Tanacross (d)	15476000	a8550	1953-90
Berry Creek near Dot Lake (d)	15476300*	65.1	1971-81
Dry Creek near Dot Lake (d)	15476400	57.6	1966-69
Clearwater Creek near Delta Junction (d)	15477500	a360	1977-79
Tanana River at Big Delta (d)	15478000	a13500	1949-52 1954-57

Discontinued surface-water discharge or stage-only stations--Continued
[Footnotes at end of table on p. xxiii]

Station name	Station number	Drainage area (mi^2)	Period of record
YUKON ALASKA--Continued			
Tanana River near Harding Lake (e)	15481000	17240	c1968-82
Moose Creek at Eielson Air Force Base (d)	15485000	136	1964-65
Garrison Slough at Eielson Air Force Base (d)	15485200	6.24	1964-65
Chena River near North Pole (d)	15493500	r1445	1972-80
Chena River below Moose Creek Dam (d)	15493700	1,460	1979-96
Wood River near Fairbanks (d)	15514500	855	1968-78
Seattle Creek near Cantwell (d)	15515800	36.2	1966-75
Nenana River near Windy (d)	15516000	a710	1950-56
Nenana River near Healy (d)	15518000	a1910	1951-79
Nenana River at Healy (d)	15518040	a2100	1990-91
Nenana River near Rex (d)	15518300	a2450	1965-68
Teklanika River near Lignite (d)	15518350	490	1965-74
Chatanika River above Poker Creek near Chatanika (d)	15534800	419	1996
Poker Creek near Chatanika (d)	15534900	23.1	1971-78
Caribou Creek near Chatanika (d)	15535000	9.19	1970-84
Long Creek at Long near Ruby	15564450	25.4	1995-97
Melozitna River near Ruby (d)	15564600	2693	1961-73
Yukon River at Ruby (d)	15564800	a259000	1957-78
Middle Fork Koyukuk River near Wiseman (d)	15564875	a1200	1970-78 1984-87
Wiseman Creek at Wiseman (d)	15564877	49.2	1970-78
Jim River near Bettles (d)	15564885	465	1970-77
Koyukuk River at Hughes (d)	15564900	a18400	1960-82
Yukon River near Kaltag (d)	15565200	a296000	1957-66
Ophir Creek near Takotna (d)	15565235	6.19	1975-80
Yukon River at Pilot Station (d)	15565447	321,000	1975-96
NORTHWEST ALASKA			
Snake River near Nome (d)	15621000	85.7	1965-81 1982-91
Eldorado Creek near Teller (d)	15635000	5.83	1988-90 1992-98
Gold Run Creek near Teller (d)	15637000*	24.2	c1986-88
Crater Creek near Nome (d)	15668200	21.9	1975-85
Kuzitrin River near Nome (d)	15712000	a1720	c1908-10 1962-73
Humboldt Creek near Serpintine Hot Springs near Nome (d)	15716010	8.15	c1992-93
June Creek near Kotzebue (d)	15743000	10.9	1965-67
Kobuk River at Ambler (d)	15744000	a6570	1965-78
Noatak River at Noatak (d)	15746000	a12000	c1965-71

Discontinued surface-water discharge or stage-only stations--Continued
[Footnotes at end of table on p. xxiii]

Station name	Station number	Drainage area (mi^2)	Period of record
NORTHWEST ALASKA--Continued			
Ikalukrok Creek above Red Dog Creek near Noatak (d)	15746980	59.2	1991-92
Red Dog Mine clean water ditch near Noatak (d)	15746983	4.74	1991-92
North Fork Red Dog Creek near Kivalina (d)	15746988*	15.9	1991-92
Red Dog Creek above mouth near Noatak (d)	15746990	24.6	1991-92
Ogotoruk Creek near Point Hope (d)	15748000	a35	c1958-62
ARCTIC SLOPE ALASKA			
Esatkuat Creek near Barrow (d)	15799000	a1.46	c1972-73
Esatkuat Lagoon Outlet at Barrow (d)	15799300	a3.52	c1972-73
Meade River at Atkasuk (d)	15803000	a1800	c1977
Teshekpuk Lake Outlet near Lonely (e)	15829995	a1400	c1977
Miguakiak River near Teshekpuk Lake near Lonely (d)	15830000	a1460	c1977
Colville River near Nuiqsut (d)	15880000	20670	c1977
Putuligayuk River near Deadhorse (d)	15896700	a176	1970-79 c1980 1982-86 c1987-95
Atigun River near Pump Station 4 (d)	15904800	48.7	1991-94
Atigun River Tributary near Pump Station 4 (d)	15904900*	32.6	1977-86
Sagavanirktok River near Sagwon (d)	15910000	2208	1970-78
Chamberlin Creek near Barter Island (d)	15975000	1.46	c1958
Neruokpukkoonga Creek near Barter Island (d)	15976000	123	c1958

* Currently operated as a crest-stage partial-record station
** Currently operated as a water-quality partial record station
\# Currently operated as a monthly discharge and reservoir elevation station
a Approximately
b Break in record
c Fragmentary or seasonal
f Additional record for water years 1961-79 available from discharge records of Water Survey of Canada
g Prior to diversion upstream
r Revised
R Regulated

DISCONTINUED SURFACE-WATER-QUALITY STATIONS

The following continuous-record surface-water-quality stations in Alaska have been discontinued. Daily records of temperature, specific conductance, or sediment were collected and published for the period of record shown for each station. Information regarding these stations may be obtained from the District Office at the address given on the back side of the title page of this report.

[Type of record: Temp. (temperature), S.C. (specific conductance), Sed. (sediment)]

Discontinued continuous record surface-water-quality stations
[Footnotes at end of table on p. xxviii]

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
SOUTHEAST ALASKA				
White Creek near Ketchikan	15011870	2.70	Temp., S.C.	1978-83
Keta River near Ketchikan	15011880	74.2	Temp., S.C.	1978-81, 1983-84
Blossom River near Ketchikan	15011894	68.1	Temp., S.C.	1981-84
Stikine River near Wrangell	15024800	a19,920	Temp. Sed.	1976-82 1982
Speel River near Juneau	15036000	226	Temp., Sed.	1960
Dorothy Lake Outlet (head of Dorothy Creek) near Juneau	15039900	11.0	Temp	1996-99
Duck Creek below Nancy Street near Auke Bay	15053200	--	Temp	1997-99
Lake Creek at Auke Bay	15053800	2.50	Temp	1963-73
Auke Creek at Auke Bay	15054000	3.96	Temp.	1962-75
Davies Creek near Auke Bay	15054990	15.2	Temp.	1969-72
Skagway River at Skagway	15056100	a145	Temp., S.C.	1979-82 1980-82
Taiya River near Skagway	15056210	149	Temp.	1971-74, 1977
Chilkat River at Gorge near Klukwan	15056400	a190	Temp.	1962-67
Chilkat River near Klukwan	15056500	a760	Temp., Sed., S.C.	1960
Grace Creek near Ketchikan	15078000	30.2	Temp.	1965-69
Traitors River near Bell Island	15080500	20.8	Temp.	1965-68
Staney Creek near Craig	15081500	51.6	Temp.	1966-79
Klawak River near Klawock	15081620	46.1	Temp.	1976-77
Perkins Creek near Metlakatla	15083500	3.38	Temp.	1976-93
Saltery Creek near Kasaan	15085000	5.53	Temp.	1962-64
Cabin Creek near Kasaan	15085300	8.83	Temp.	1962-64
Virginia Creek near Kasaan	15085400	3.08	Temp.	1962-64
Big Creek near Point Baker	15086600	11.2	Temp.	1963-80
Zarembo Creek near Point Baker	15087110	1.27	Temp.	1979-80
Hamilton Creek near Kake	15087570	65.0	Temp.	1982-86, 1989-96
Rocky Pass Creek near Point Baker	15087590	2.72	Temp.	1978-79, 1981-82
Nakwasina River near Sitka	15087610	31.9	Temp.	1976-82
Betty Lake outlet at Port Armstrong	15093200	2.66	Temp.	1978-81
Sashin Creek near Big Port Walter	15093400	3.72	Temp.	1966-77

Discontinued continuous record surface-water-quality stations--Continued
[Footnotes at end of table on p. xxviii]

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
SOUTHEAST ALASKA--Continued				
East Branch Lovers Cove Creek Diversion near Big Port Walter	15093600	--	Temp.	1965-71
Kalinin Bay tributary near Sitka	15101200	2.28	Temp.	1976-79
Greens Creek near Juneau	15101500	22.8	Temp. S.C.	1978-84 1979-85
Wheeler Creek near Douglas	15101600	57.1	Temp.	1970-73
North Arm Creek near Angoon	15102350	8.64	Temp.	1971-78
Hood Bay Creek near Angoon	15102400	--	Temp.	1970-71
Hook Creek above tributary near Tenakee	15106940	4.48	Temp.	1967-80
Hook Creek near Tenakee	15106960	8.00	Temp.	1966-78
Tonalite Creek near Tenakee	15106980	14.5	Temp. S.C., Sed.	1968-84, 1986-88 1972
Kadashan River near Tenakee	15107000	37.7	Temp.	1966-79
SOUTH-CENTRAL ALASKA				
Dick Creek near Cordova	15195000	7.95	Temp.	1971-79
Gakona River at Gakona	15200000	a620	Temp., S.C.	1953-54
Gulkana River at Sourdough	15200280	1,770	Temp.	1972-78
Klutina River at Copper Center	15206000	a880	Temp, S.C.	1953
Little Tonsina River near Tonsina	15207800	22.7	Temp.	1973-78
Tonsina River at Tonsina	15208000	a420	Temp., S.C.	1953, 1959-66
Copper River near Chitina	15212000	a20,600	Temp Sed. S.C.	1957, 1964-65, 1979-81 1957, 1963-65 1957
Humpback Creek near Cordova	15216100	4.37	Temp.	1973-75
West Fork Olsen Bay Creek near Cordova	15219000	4.78	Temp.	1964-79
Duck River at Silver Lake outlet near Valdez	15223900	25.1	Temp.	1982-84
Duck River near tidewater near Valdez	15224000	26.7	Temp.	1982-84
Duck River above the Lagoon near Valdez	15224002	--	Temp.	1982-84
Lowe River in Keystone Canyon near Valdez	15226600	222	Temp.	1975-76
Tutka Lagoon Creek near Homer	15238860	10.8	Temp.	1973-76
Upper Bradley River near Homer	15238990	a10.0	Temp.	1979-90
Bradley River below dam near Homer	15239001	a66.0	Temp	1990-99
Bradley River near Tidewater near Homer	15239070	--	Temp	1986-99
Anchor River at Anchor Point	15240000	224	Temp., S.C.	1954, 1959-66
Ninilchik River at Ninilchik	15241600	131	Temp. Sed.	1963, 1965 1963-65
Trail River near Lawing	15248000	181	Temp.	1959-67
Kenai River at Cooper Landing	15258000	634	Temp., S.C.	1950

Discontinued continuous record surface-water-quality stations--Continued
[Footnotes at end of table on p. xxviii]

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
SOUTH-CENTRAL ALASKA--Continued				
Kenai River at Soldotna	15266300	2,010	Sed.	1979-80
Beaver Creek near Kenai	15266500	a51	Temp.	1970-75
Bishop Creek near Kenai	15267000	a24.2	S.C.	1977-79
Rabbit Creek at Anchorage	15273050	a15	Temp.	1984-86
Little Rabbit Creek above Goldenview Drive at Anchorage	15273095	5.06	Temp.	1983-86
Rabbit Creek at New Seward Highway at Anchorage	15273105	a24.5	Temp.	1984-86
Little Campbell Creek at Nathan Drive near Anchorage	15274550	a15.0	Temp. Sed.	1986-87 b1988-91
Campbell Creek near Spenard	15274600	69.7	Sed.	1986, 1988
Middle Fork Chester Creek at Nichols Street at Anchorage	611207149483600	--	Temp.	1982
Chester Creek at Anchorage	15275000	20.0	Temp.	1982
Chester Creek at Arctic Boulevard at Anchorage	15275100	27.2	Temp., S.C. Sed.	1981-86 b1988-91
Ship Creek near Anchorage	15276000	90.5	Temp.	1949-50
Ship Creek below powerplant at Elmendorf Air Force Base	15276570	115	Temp.	1970-80
Eagle River at Eagle River	15277100	a192	Temp. Sed., S.C.	1968-69, 1971 1967-69, 1971
East Fork Eklutna Creek near Palmer	15277600	38.2	Sed.	1985-87
West Fork Eklutna Creek near Palmer	15277800	25.4	Sed.	1985-87
Eklutna Creek near Palmer	15280000	119	Temp.	1950
Knik River near Palmer	15281000	a1,180	Temp. Sed. S.C.	1963, 1965 1962-66 1972
Chickaloon River near Sutton	15282800	--	Temp.	1953-54
Matanuska River at Palmer	15284000	a2,070	Temp. Sed. S.C.	1952-53, 1959-66 1953-54, 1959-66 1965-67, 1972
Susitna River near Denali	15291000	a950	Temp.	1974-82
Susitna River near Cantwell	15291500	a4,140	Temp.	1980, b1982-86
Susitna River at Gold Creek	15292000	a6,160	Temp. Sed.	1957, 1974-80, 1982-85 1952, 1957
Chulitna River near Talkeetna	15292400	a2,570	Temp.	b1982-86
Talkeetna River near Talkeetna	15292700	2,006	Temp.	1954
Susitna River at Sunshine	15292780	a11,100	Temp.	b1981-85
Willow Creek near Willow	15294005	166	Temp.	b1978-90
Deception Creek near Willow	15294010	48.0	Temp.	b1978-85
Yentna River near Susitna Station	15294345	a6,180	Temp.	b1981-86
Susitna River at Susitna Station	15294350	a19,400	Temp.	1975-80, b1983-86
Chuitna River near Tyonek	15294450	131	Temp.	1976-78
Falls Creek near Larsen Bay	15296500	5.67	Temp.	1974-75

Discontinued continuous record surface-water-quality stations--Continued
[Footnotes at end of table on p. xxviii]

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
SOUTH-CENTRAL ALASKA--Continued				
Canyon Creek near Larsen Bay	15296520	8.82	Temp.	1974-76
East Fork Upper Thumb River near Larsen Bay	15296545	8.99	Temp.	1979-82
Upper Thumb River near Larsen Bay	15296550	18.8	Temp.	1974-82
Thumb River near Larsen Bay	15296554	25.3	Temp.	1979-82
Karluk River at outlet near Larsen Bay	15296600	100	Temp.	1975-76, 1978-82
Akalura Creek at Olga Bay	15296950	18.4	Temp.	1975-76
Kizhuyak River near Port Lions	15297485	c42.5	Temp.	b1980-86, 1987-94
SOUTHWEST ALASKA				
Tazimina River near Nondalton	15299900	327	Temp.	1982-86
Nushagak River at Ekwok	15302500	a9,850	Temp.	1979-80, 1982
East Creek near Dillingham	15303100	2.12	Temp.	1973-76
Snake River near Dillingham	15303150	113	Temp.	1974-80
Kuskokwim River at Medfra	630615154424500	--	Temp.	1954
Kuskokwim River at Crooked Creek	15304000	a31,100	Temp. S.C.	1957-67, 1977-79 1957-67
YUKON ALASKA				
Yukon River at Eagle	15356000	a113,500	Temp. Sed.	1951-52, 1962-63, 1965-66 1962-66
Hess Creek near Livengood	15457800	662	Temp.	1971-72, 1976-77
Yukon River at Rampart	15468000	a199,400	Temp., S.C.	1954-56, 1961-64
Tanana River near Tok Junction	15472000	a6,800	Temp., S.C.	1951-53
Tanana River near Tanacross	15476000	a8,550	Temp., S.C. Sed.	1954, 1957-66
Tanana River at Big Delta	15478000	13,500	Temp. S.C.	1949-51 1949-52
Chena River near North Pole	15493500	1,430	Temp.	1972-79
Little Chena River near Fairbanks	15511000	372	Temp.	1972-81
Chena River at Fairbanks	15514000	a1,980	Temp. Sed. S.C.	1953, 1962-66, 1969-71 1962-71 1968-71
Tanana River at Nenana	15515500	a25,600	Temp. S.C.	1954-56 1954-57
Nenana River near Healy	15518000	a1,910	Temp. Sed., S.C.	1957-66 1953-66
Nenana River at Healy	15518040	a2,100	Temp.	1949
Caribou Creek near Chatanika	15535000	9.19	Temp.	1972-73
Long Creek at Long near Ruby	15564450	25.4	Temp.	1995-97

Discontinued continuous record surface-water-quality stations--Continued
[Footnotes at end of table on p. xxviii]

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
YUKON ALASKA--Continued				
Yukon River at Ruby	15564800	a259,000	Temp. S.C.	1966-67, 1969-74 1966-74
Yukon River at Galena	15564860	--	Temp., S.C.	1954
Middle Fork Koyukuk River near Wiseman	15564875	a1,200	Temp.	1971-72, 1976-79
Wiseman Creek at Wiseman	15564877	49.2	Temp.	1973, 1976
Jim River near Bettles	15564885	11.7	Temp.	1971-76
Yukon River at Pilot Station	15565447	a321,000	Temp.	1976, 1978
NORTHWEST ALASKA				
Eldorado Creek near Teller	15635000	5.83	Temp.	1995-98
Kobuk River near Kiana	15744500	a9,520	Temp.	1978-81
Ogotoruk Creek near Hope	15748000	a35	Temp., Sed.	1959
ARCTIC SLOPE ALASKA				
Kuparuk River near Deadhorse	15896000	3,130	Temp.	1971-72, 1976, 1978-79
Putligayuk River near Deadhorse	15896700	a176	Temp.	1976
Sagavanirktok River near Sagwon	15910000	229	Temp.	1971

a Approximately
b Seasonal
c After diversion upstream beginning 1985

INTRODUCTION

The Water Resources Division of the U.S. Geological Survey, in cooperation with State and other agencies, obtains a large amount of data pertaining to the water resources of Alaska each water year. These data, accumulated during many water years, constitute a valuable data base for developing an improved understanding of the water resources of the State. To make these data readily available to interested parties outside the Geological Survey, the data are published annually in this report series entitled "Water Resources Data - Alaska."

Water resources data for the 2000 water year for Alaska consist of records of stage, discharge, and water quality of streams; stages of lakes; and water levels and water quality of ground water. This volume contains records for water discharge at 106 gaging stations; stage or contents only at 4 gaging stations; water quality at 31 gaging stations; and water levels for 30 observation wells and 1 water-quality well. Also included are data for 47 crest-stage partial-record stations. Additional water data were collected at various sites not involved in the systematic data-collection program and are published as miscellaneous measurements and analyses. These data represent that part of the National Water Data System operated by the U.S. Geological Survey and cooperating State and Federal agencies in Alaska.

Records of discharge and stage of streams, stage of lakes, chemical quality, water temperatures, and suspended sediment were first published in U.S. Geological Survey Water-Supply Papers. Through September 30, 1960, these data were published in seven Water-Supply Papers entitled "Quantity and Quality of Surface Waters of Alaska" (through 1950, 1951-53, 1954-56, 1957, 1958, 1959, 1960). Since 1960, streamflow records and related data were published in a five-year series of Water-Supply Papers for 1961-65 and 1966-70 entitled "Surface Water Supply of the United States." Water-quality records were published in a Water-Supply Paper entitled "Quality of Surface Waters of Alaska, 196l-63" and after then until 1970 in an annual series of Water-Supply Papers entitled "Quality of Surface Waters of the United States." Records of ground-water levels were published from 1949 to 1974 in a series of Water-Supply Papers entitled "Ground-Water Levels in the United States." Water-Supply Papers may be consulted in the libraries of the principal cities in the United States or may be purchased from U.S. Geological Survey, Branch of Information Services, Box 25286, Denver, CO 80225.

For water years 1961 through 1970, streamflow data were also released by the Geological Survey in annual reports on a State-boundary basis. Water-quality records for water years 1964 through 1970 were similarly released either in separate reports or in conjunction with streamflow records.

Beginning with the 1971 water year, water data for streamflow, water quality, and ground water are published in official Survey reports on a State-boundary basis. These official Survey reports carry an identification number consisting of the two-letter State abbreviation, the last two digits of the water year, and the volume number. For example, this report is identified as "U.S. Geological Survey Water-Data Report AK-00-1." These water-data reports are for sale, in paper copy or in microfiche, by the National Technical Information Service, U.S. Department of Commerce, Springfield, VA 22161. Additional information, including current prices, for ordering specific reports may be obtained from the District Chief at the address given on the back of the title page or by telephone (907) 786-7100.

The USGS is continually updating the availability of its information on the World Wide Web. Current streamflow conditions (via satellite) for Alaska and other Alaskan water resource information can be found at the following Universal Resource Locator (URL):<http://ak.water.usgs.gov/>. Nationwide information on water resources, including real-time and historic streamflow data, water-use data, publications and USGS program activities, can be found at URL: http://water.usgs.gov/.

COOPERATION

The U.S. Geological Survey and organizations of the State of Alaska have had cooperative agreements since 1958 for the systematic collection of streamflow records, water-quality records, and ground-water levels. Organizations that assisted in collecting data contained in this report through cooperative agreements with the USGS are:

Alaska Department of Community and Economic Development, Deborah B. Sedwick, Commissioner
Alaska Industrial Development and Export Authority, Alaska Energy Authority, Robert Poe, Jr., Executive Director
Alaska Department of Environmental Conservation, Michele Brown, Commissioner
Alaska Department of Fish and Game, Frank Rue, Commissioner
Alaska Department of Natural Resources, Division of Mining and Water Management, Pat Pourchot, Commissioner
Alaska Department of Transportation and Public Facilities, Joseph L. Perkins, Commissioner, in cooperation with the U.S. Department of Transportation, Federal Highway Administration
City and Borough of Juneau, Sally Smith, Mayor
City and Borough of Sitka, Valorie Nelson, Mayor
City and Borough of Yakutat, Tom Maloney, Mayor
City of Klawock, Donna Williams, Mayor
City of Wrangell, Fern Neimeyer, Mayor
Alaska Native Tribal Health Consortium, Paul Sherry, President/CEO
Haida Corporation, John Bruns, Resource Manager
Kenai Peninsula Borough, Mike Navarre, Mayor
Municipality of Anchorage, George Wuerch, Mayor
University of Alaska Southeast, John Pugh, Chancellor

The following Federal agencies assisted in the data-collection program by providing funds or services:

U.S. Army Corps of Engineers
U.S. Army Corps of Engineers, Cold Regions Research & Engineering Laboratory
U.S. Department of Agriculture, Forest Service
U.S. Department of Commerce, National Oceanic & Atmospheric Administration
U.S. Department of the Interior, Bureau of Land Management
U.S. Department of the Interior, National Park Service

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Assisting in the collection of the data were the following gage observers:

John Borg, Yukon River at Eagle
Douglas Dobyns, Taku River near Juneau
Rob Gieck, Sagavanirktok River Tributary near Pump Station 3
Sandy Hamilton, Nation and Kandik Rivers near Nation, and Kobuk River near Kiana
Vince Harkey, Ophir Creek near Yakutat
Dick Levitt, Kahtaheena River near Gustavus
John Martinisko, Ikalukrok River below Red Dog Creek near Kivalina
Brian Omann, Sawmill Creek and Blue Lake near Sitka
Steve Paustian, Kadashan River near Tenakee
Alan Peck, Moody Creek near Aleknagik
Jack Schmid, Yukon River near Stevens Village
Lorry Schuerch, Kobuk River near Kiana
Eric Sundberg, Greens Creek at Greens Creek Mine near Juneau
Bob Walworth, Tatalina River near Takotna
Jennifer Williams, Indian River sites near Sitka
Ray Williams, Iliamna River near Pedro Bay

Organizations that supplied data are acknowledged in station descriptions.

SUMMARY OF HYDROLOGIC CONDITIONS

Surface Water

Alaska contains more than 40 percent of the Nation's surface-water resources. The highest runoff rates per unit area are in southeast Alaska and in other areas influenced by the maritime climate of the northern Pacific Ocean and the Gulf of Alaska. In the interior and northern parts of the State, runoff rates are markedly lower than in the maritime-influenced areas. Runoff generally increases with altitude throughout the State, and year-to-year runoff variability increases from south to north.

Seasonal runoff characteristics differ from southern to northern Alaska. Areas influenced by maritime climates usually have two periods with high runoff: a spring snowmelt period and a fall rainfall period. High water can occur throughout the year, but the highest instantaneous peak discharges are more prevalent in the fall months; low-water periods usually occur in late spring and mid-summer, prior to the rainy fall period. Farther north, most of the total runoff and floods occur in the period from May through September; low-flow periods usually occur during late winter, shortly before spring snowmelt.

In southeast Alaska, some of the highest annual mean flows ever recorded occurred at a few of the stations with the longest records. Annual flows in the 2000 water year were excessive (greater than the 75th percentile of measured flows) in 7 of 15 long-term (having 10 or more years of record) streams in southeast Alaska. Maximum annual flows occurred at Gold Creek (station 15050000, having 43 years on record), and Old Tom Creek (station 15085100, 51 years).

Many of the high flows in southeast Alaska occurred during October through December. Nearly continuous rain in September and October produced maximum observed monthly mean streamflow for October in Tyee Lake Outlet (station 15019990, 10 years), Gold Creek, and Situk River (station 15129500, 12 years). Old Tom Creek experienced maximum monthly flow for November. December high flows resulted from warm temperatures that caused precipitation that normally falls as snow to fall as rain. Several streams in southeast Alaska having records shorter than 10 years experienced maximum instantaneous flows of record in December (Duck Creek station 15053200, 7 years; Jordan Creek, station 15052475, 3 years, Reynolds Creek, station 15081995, 5 years). Dorothy Lake Outlet (station 15039900, 14 years), Taku River (station 15041200, 13 years), Gold Creek, Mendenhall River (station 15052500, 33 years), Indian Creek (station 15087690, 15 years), Kadashan River (station 15106920, 30 years) and Situk River experienced maximum monthly flow for December. January monthly mean flows were records at Dorothy Lake Outlet and Taku River.

The warm winter weather melted much of the snowpack throughout southeast Alaska. Resulting spring flows were often well below normal. During May, 7 of 15 long-term streamflow gaging stations experienced deficient flows (less than the 25th percentile of measured flows). Summer rain, especially in July, brought streamflow back above normal. During July, 12 of the 15 long-term stations in southeast Alaska had excessive flow.

Many coastal streams in south-central Alaska experienced warm temperatures during December from the same climatic patterns that affected southeast Alaska. Excessive flows were measured in 7 of 14 long-term stations in December, and maximum monthly mean flow occurred at Sixmile Creek (station 15271000, 14 years), and at Portage Creek (station 15272280, 11 years). However, winter storms replenished the snowpack, and above-normal snowpack was present throughout

much of south-central Alaska in May. A mild spring resulted in average runoff during April, May, and June: about an equal number of stations were above normal as were below normal.

The only active stream-gaging stations in southwest Alaska with 10 or more years of record are Russell Creek (station 15297610, 10 years) and Kuskokwim River at Crooked Creek (station 15304000, 48 years). A cold winter produced the lowest monthly mean flows recorded at Russell Creek during November through February, but discharge fluctuated during the summer, with maximum monthly mean flow measured in June and August, and minimum monthly mean flow measured in September.

Streamflow was relatively benign throughout the Yukon River basin for much of the year until summer, when about an equal number of stations were above normal as were below normal. However, rainfall throughout the upper Yukon and Tanana River basins produced excessive flow for at least 2 months during the summer at 8 of 10 long-term stations. Flows were particularly high in September, when Yukon River at Eagle (station 15366000, 51 years) and Yukon River near Stevens Village (station 15453500, 24 years) experienced the highest monthly mean flow measured for September. This followed three out of four years (WY1996, 1998 and 1999) of deficient flows, caused mainly by lower than normal snowfall. Subsequent freeze-up was delayed due to the high flows, and occurred at a higher stage. This will result in a greater likelihood of ice jams the following spring.

Spring throughout western and northern Alaska was markedly colder than normal, and most rivers did not break up until June. Cold May temperatures followed by near-normal June temperatures resulted in a rapid break-up, that sometimes occurred over anchor ice. For example, Sagavanirktok River near Pump Station 3 (station 15908000, 18 years) experienced record river stage on June 8 although measured streamflow was only slightly above normal. This occurred because much of the channel was still filled with ice when spring snowmelt began to produce significant streamflow. Subsequent precipitation was sparse on the Arctic Slope, and three of four long-term stations experienced deficient flows in September.

USGS hydrographers measured two glacier-outburst floods in WY 2000. An outburst from Skilak Glacier in the Kenai River basin occurred in November 1999, and "No Name" Lake in the Tulsequah River Valley, British Columbia, drained into the Taku River in July. Glacier-dammed lakes commonly drain rapidly every 1 to 3 years, but only recently have systematic, detailed measurements been possible. The measurements on the Taku River resulted in a more accurate stage-discharge rating, and peak flows greater than 75,000 ft^3/s have been revised.

Ground Water

Alaska's vast area and small population preclude a comprehensive evaluation of its ground-water resources. Throughout much of the State, aquifers are poorly defined. In many areas, wells have not been drilled and little is known about seasonal and long-term changes in ground-water storage. During water year 2000, the long-term monitoring of water levels in one well in Juneau, one well in Anchorage, and three wells in Fairbanks continued. Water levels were also measured intermittently in 24 wells in Juneau for studies of the interaction between ground water and water in anadromous fish streams. The water level in one well in the Cook Inlet Basin was measured as part

of the National Water Quality Analysis (NAWQA) program's effort to collect baseline ground-water data.

Water levels in the long-term monitoring wells in Juneau, Anchorage, and Fairbanks were within the range of historical values. Water levels in wells in the Duck and Jordan Creek watersheds in Juneau were closely related to the infiltration of rain and snowmelt and the level of water in nearby streams. Some of these wells are in stream channels or on flood plains and are intermittently flooded; most water levels in these wells were within 10 feet of land surface.

Water Quality

General Overview

Information on the concentration and composition of constituents in Alaska's surface water is markedly variable in coverage. Some subregions have had regular or periodic sampling for many years at many stream points and at a number of lakes. Information in other subregions consists of only a few miscellaneous samples. Although the chemical characteristics of water in the streams and lakes of Alaska seem variable, the ranges in concentration are not as great as those found in the conterminous United States. Most Alaskan streams above tidal reaches contain water of a calcium bicarbonate type, generally containing less than 200 mg/L dissolved solids. In these streams, the hardness generally increases with increased dissolved-solids content. The streams draining lowlands and intermontane basins usually contain harder water than the streams in the higher mountains. Some streams, especially those draining areas overlain by organic-rich deposits, can have excessive iron content.

In Alaska, the mineral content of water in lakes is more variable than that in rivers. The water in some mountain lakes is very low in dissolved-solids content and is little more concentrated than rainwater. Other lakes occupying lowlands near the sea, including many near the Arctic coastal plain, have become mineralized periodically by salts brought in from the sea either by overland flooding during storms or as ocean spray. The water in lakes in the lowlands remote from the sea is commonly very similar in chemical character to water in the larger rivers adjacent to them.

The character and distribution of suspended sediment are relatively complex in Alaska because glaciers contribute large amounts of very fine material (glacial flour) to many streams. In general, during the summer, suspended-sediment concentrations in nonglacial streams seldom exceed 100 mg/L, but can be greater than 2,000 mg/L for glacial streams. Nonglacial streams often transport the highest sediment loads during the spring breakup or during periods of high rainfall, whereas glacial streams transport the greatest sediment loads during periods of maximum glacial melting, usually in middle or late summer. The normal suspended-sediment concentration between January and April is usually less than 20 mg/L for most nonurban streams. Thus, less than 15 percent of the annual suspended-sediment load is carried during this period. The percentage of material finer than 0.062 millimeter (the silt-clay fraction as generally defined) transported by nonglacial streams is less than 50 percent in contrast to more than 50 percent for glacial streams.

Outside of the major urban areas, almost all ground water is obtained from unconsolidated aquifers. Most sampled water contains less than the State's recommended limit of 500 mg/L dissolved solids. Calcium and magnesium, which along with bicarbonate contribute to the hardness of water,

are the major dissolved ions. In most wells, hardness concentrations are about 60 to 80 percent of dissolved-solids concentrations. Water of sodium bicarbonate or sodium chloride type is present in numerous community wells drilled near the coast.

Iron is present in high concentrations in a large number of shallow wells in most areas of the State. Concentrations in excess of 1.0 mg/L are common. Iron concentrations of more than about 0.3 mg/L can cause staining of laundry and plumbing fixtures and impart an unpleasant taste to the water.

The bedrock aquifers in most of Alaska are undeveloped and very little is known about their water quality. In general, the concentration of dissolved solids in water from bedrock aquifers is higher than that found in the unconsolidated aquifers and the chemical quality of water in bedrock aquifers is more variable.

Most of the State's ground-water resources have, for the present, been unaffected by humans. However, in the major urban areas and in some outlying villages, ground-water quality has been locally degraded, primarily from septic systems, landfills, and abandoned fuel storage tanks. Most ground-water contamination problems in Alaska are caused by petroleum products, primarily from leaky fuel tanks.

In 2000, the following sites were sampled for water quality as part of the National Water Quality Assessment Program (NAWQA): samples were collected at six stream-gaging stations in the Cook Inlet Basin nearly every month; and samples were collected at 12 sites on streams within the Municipality of Anchorage. As part of the Clean Water Action Plan, water-quality, bed-material, and fish-tissue samples were collected at sites in Denali, Katmai, and Lake Clark National Parks and Preserves.

Water-quality sampling is also done for projects throughout Alaska. The analyses for these samples are published in reports discussing these projects. For more information on reports published in 2000, contact the District Chief (see p. ii) or the Alaska District webpage at http://ak.water.usgs.gov.

Remark Codes

The following remark codes may appear with the water-quality data in this section:

PRINT OUTPUT	REMARK
E	Estimated value.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
K	Results based on colony count outside the acceptance range (non-ideal colony count).

V	Analyte was detected in both the environmental sample and the associated blanks.

Dissolved Trace-Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (μg/L) level. Recent evidence, mostly from large rivers, indicates that actual dissolved-phase concentrations for a number of trace elements are within the range of 10's and 100's of nanograms per liter (ng/L). Present data above the μg/L level should be viewed with caution. Such data may actually represent elevated environmental concentrations from natural or human causes. However, these data could reflect contamination introduced during sampling, processing, or analysis. To confidently produce dissolved trace-element data with insignificant contamination, the U.S. Geological Survey began using new trace-element protocols at some stations in water year 1994. Full implementation of the protocols took place during the 1995 water year.

Water Quality-Control Data

Data generated from quality-control (QC) samples are a requisite for evaluating the quality of the sampling and processing techniques as well as data from the actual samples themselves. Without QC data, environmental sample data cannot be adequately interpreted because the errors associated with the sample data are unknown. The various types of QC samples collected by this district are described in the following section. Procedures have been established for the storage of water-quality-control data within the USGS. These procedures allow for storage of all derived QC data and are identified so that they can be related to corresponding environmental samples.

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated by the overall data-collection process. The blank solution used to develop specific types of blank samples is a solution that is free of the analytes of interest. Any measured value signal in a blank sample for an analyte (a specific component measured in a chemical analysis) that was absent in the blank solution is believed to be due to contamination. There are many types of blank samples possible, each designed to segregate a different part of the overall data-collection process. The types of blank samples collect in this district are:

Field blank - a blank solution that is subjected to all aspects of sample collection, field processing preservation, transportation, and laboratory handling as an environmental sample.

Trip blank - a blank solution that is put in the same type of bottle used for an environmental sample and kept with the set of sample bottles before and after sample collection.

Equipment blank - a blank solution that is processed through all equipment used for collecting and processing an environmental sample (similar to a field blank but normally done in the more controlled conditions of the office).

Sampler blank - a blank solution that is poured or pumped through the same field sampler used for collecting an environmental sample.

Filter blank - a blank solution that is filtered in the same manner and through the same filter apparatus used for an environmental sample.

Splitter blank - a blank solution that is mixed and separated using a field splitter in the same manner and through the same apparatus used for an environmental sample.

Preservation blank - a blank solution that is treated with the sampler preservatives used for an environmental sample.

Reference samples are solutions or materials prepared by a laboratory whose composition is certified for one or more properties so that it can be used to assess a measurement method. Samples of reference material are submitted for analysis to ensure that an analytical method is accurate for the known properties of the reference material. Generally, the selected reference material properties are similar to the environmental sample properties.

Replicate samples are a set of environmental samples collected in a manner such that the samples are thought to be essentially identical in composition. Replicate is the general case for which a duplicate is the special case consisting of two samples. Replicate samples are collected and analyzed to establish the amount of variability in the data contributed by some part of the collection and analytical process. There are many types of replicate samples possible, each of which may yield slightly different results in a dynamic hydrologic setting, such as a flowing stream. The types of replicate samples collected in this district are:

Sequential samples - a type of replicate sample in which the samples are collected one after the other, typically over a short time.

Split sample - a type of replicate sample in which a sample is split into subsamples contemporaneous in time and space.

Spike samples are samples to which known quantities of a solution with one or more well-established analyte concentrations have been added. These samples are analyzed to determine the extent of matrix interference or degradation on the analyte concentration during sample processing and analysis.

Water Use

Water use in the broad sense deals with man's interaction with and influence on the hydrologic cycle. In a technical sense, water use refers to water that is actually used for a specific purpose, such as domestic use, commercial needs, or industrial processing. The water use for the state of Alaska was estimated for 1995. An estimate of water use will be made for 2000.

Industry is the largest user of fresh water in Alaska. In 1995, it accounted for about 38 percent of all offstream withdrawals. In 1995, water used instream for hydroelectric power generation was nine times more than that used offstream by man.

Another probable large instream use is for fish and wildlife resources. Approximately 15,000 water bodies have been identified by the Alaska Department of Fish and Game as producing anadromous fish. The Alaska Water Use Act was amended in 1980 to include instream flow as a use. The amendments provide the opportunity for private individuals, and local, State, and Federal governments to legally acquire instream flow water rights. Either one or a combination of the four following types of uses can be acquired: 1) protection of fish and wildlife habitat, migration, and propagation; 2) recreation and parks; 3) navigation and transportation; and 4) sanitation and water quality. Eleven instream flow rights applications have been granted.

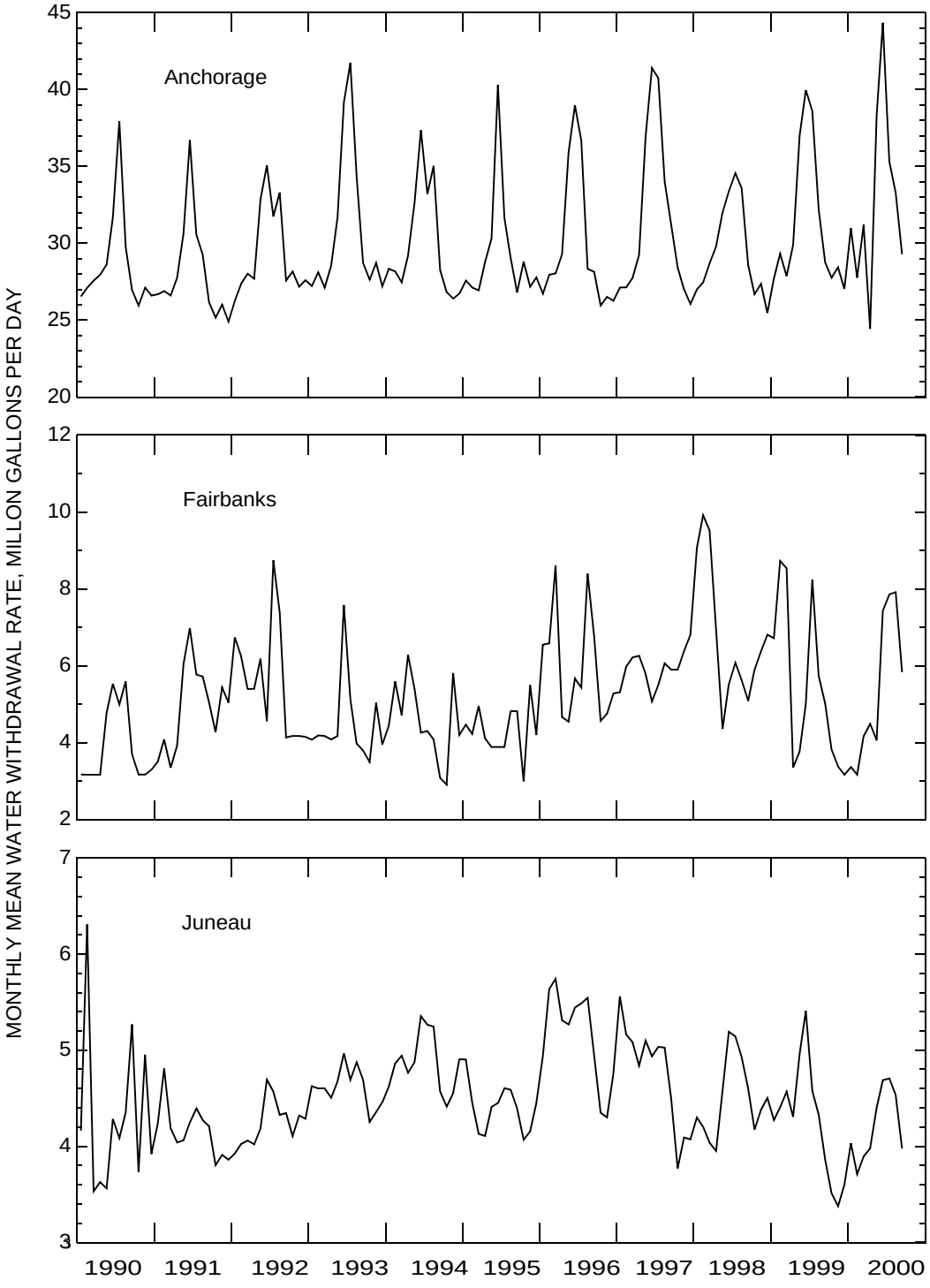
From 1990-2000, Alaska's population increased 13 percent, which was one of the Nation's larger percentage increases. In 2000, Alaska's population increased by 1 percent. In 2000, about 60 percent of the State's population lived in the Anchorage, Fairbanks, and Juneau areas.

Because of the population increase, public-supply use of water is also increasing. In 1995, public-supply use accounted for 33 percent of all offstream withdrawal and 63 percent of the State's population received their water from a public-supply utility; the remainder supplied their own water. The main use of public-supply water was for domestic use of about 57 percent; the rest was primarily for commercial and industrial uses which has dropped since 1990 due to timber processing plants closing in southeast Alaska and changes in the fish processing industry.

In 1995, the water utilities in the Anchorage, Fairbanks, and Juneau areas used 60 percent of all water withdrawn in the State for public supply. The monthly mean rate of water withdrawn by the principal public-supply utilities servicing these three areas from January 1990 to September 2000 is shown in the graph on the following page (data are from Municipality of Anchorage, Fort Richardson, City of Fairbanks, and City and Borough of Juneau). The higher usage shown during the summer months in Anchorage and Fairbanks is probably due to tourism and other commercial activity, increased industrial activity, and seasonal climatic effects.

The State's 1995 average use from public supply was 172 gallons per day per person, whereas the nation's average is 184 gallons per day. One of the nation's lowest per capita use of all public-supply customers of 10 gallons per day has been reported on the North Slope.

Surface water is the source for 58 percent of the 2000 State's public-water supply in these three cities, while ground water is the source for the remainder. Anchorage receives 75 percent of its water from surface-water sources. Surface water became the primary source when water from Eklutna Lake was brought into production in 1988. Juneau obtained 67 percent of public-supply water from ground-water sources in 2000. Juneau has reduced using its surface-water source because of cost to meet water-quality regulations. Fairbanks obtains 100 percent of public-supply water from ground-water sources. Of the water withdrawn in Fairbanks, about two-thirds is treated to be suitable for domestic use, and the other one-third is for thermoelectric power use.



Monthly mean water withdrawal rate for public supply in the Anchorage, Fairbanks, and Juneau areas, 1990 to 2000.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 50 sites in small drainage basins around the country whose purpose is to provide consistent data on the hydrology, including water quality, and related factors in representative undeveloped watersheds nationwide, and to provide analyses on a continuing basis to compare and contrast conditions observed in basins more obviously affected by human activities.

International Gaging Station Network is a network of stations located on the boundary waters between Canada or Mexico and the United States. The stations are officially designated as "International" by joint action of the two countries to provide data pursuant to an international agreement, understanding, or other mutually agreed purposes. Operation of the gaging stations may be by water monitoring agencies of either country, or jointly. Data must be collected and analyzed in a mutually satisfactory manner according to agreed procedures and be available to users in both countries.

National Stream-Quality Accounting Network (NASQAN) monitors the water quality of large rivers within four of the Nation's largest river basins--the Mississippi, Columbia, Colorado, and Rio Grande. The network consists of 40 stations. Samples are collected with sufficient frequency that the flux of a wide range of constituents can be estimated. The objective of NASQAN is to characterize the water quality of these large rivers by measuring concentration and mass transport of a wide range of dissolved and suspended constituents, including nutrients, major ions, dissolved and sediment-bound heavy metals, common pesticides, and inorganic and organic forms of carbon. This information will be used (1) to describe the long-term trends and changes in concentration and transport of these constituents; (2) to test findings of the National Water-Quality Assessment Program (NAWQA); (3) to characterize processes unique to large-river systems such as storage and re-mobilization of sediments and associated contaminants; and (4) to refine existing estimates of off-continent transport of water, sediment, and chemicals for assessing human effects on the world's oceans and for determining global cycles of carbon, nutrients, and other chemicals.

The National Atmospheric Deposition Program/National Trends Network (NADP/NTN) provides continuous measurement and assessment of the chemical climate of precipitation throughout the United States. As the lead federal agency, the USGS works together with over 100 organizations to accomplish the following objectives; (1) Provide a long-term, spatial and temporal record of atmospheric deposition generated from a network of 191 precipitation chemistry monitoring sites. (2) Provide the mechanism to evaluate the effectiveness of the significant reduction in SO_2 emissions that began in 1995 as implementation of the Clean Air Act Amendments (CAAA) occurred. (3) Provide the scientific basis and nationwide evaluation mechanism for implementation of the Phase II CAAA emission reductions for SO_2 and NO_x scheduled to begin in 2000.

Data from the network, as well as information about individual sites, are available through the world wide web at: http://nadp.sws.uiuc.edu

The National Water-Quality Assessment (NAWQA) Program of the U.S. Geological Survey is a long-term program with goals to describe the status and trends of water-quality conditions for a large, representative part of the Nation's ground- and surface-water resources; provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 59 study units (major watersheds and aquifer systems) that represent a wide range of environmental settings nationwide and that account for a large percentage of the Nation's water use. A wide array of chemical constituents will be measured in ground water, surface water, streambed sediments, and fish tissues. The coordinated application of comparative hydrologic studies at a wide range of spatial and temporal scales will provide information for decision making by water-resources managers and a foundation for aggregation and comparison of findings to address water-quality issues of regional and national interest.

Communication and coordination between USGS personnel and other local, State, and federal interests are critical components of the NAWQA Program. Each study unit has a local liaison committee consisting of representatives from key federal, State, and local water resources agencies, Indian nations, and universities in the study unit. Liaison committees typically meet semiannually to discuss their information needs, monitoring plans and progress, desired information products, and opportunities to collaborate efforts among the agencies.

Additional information about the NAWQA Program is available through the world wide web at:

http://water.usgs.gov/nawqa

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 2000 water year that began October 1, 1999, and ended September 30, 2000. A calendar of the water year is provided on the inside of the front cover. The records contain streamflow data, stage and content data for lakes and reservoirs, water-quality data for surface and ground water, and ground-water-level data. The locations of the stations and wells where the data were collected are shown in figures 1, 2 and 3. The following sections of the introductory text are presented to provide users with a more detailed explanation of how the hydrologic data published in this report were collected, analyzed, computed, and arranged for presentation.

Station Identification Numbers

Each data station, whether stream site, lake, reservoir, spring, or well, in this report is assigned a unique identification number. This number is unique in that it applies specifically to a given station and to no other. The number usually is assigned when a station is first established and is retained for that station indefinitely. The systems used by the U.S. Geological Survey to assign identification numbers for surface-water stations and for ground-water well sites differ, but both are based on geographic location. The "downstream order" system is used for regular surface-water stations and the "latitude-longitude" system is used for wells, lakes, reservoirs, springs, and for surface-water stations where only miscellaneous measurements and/or water-quality samples are collected.

Downstream Order System

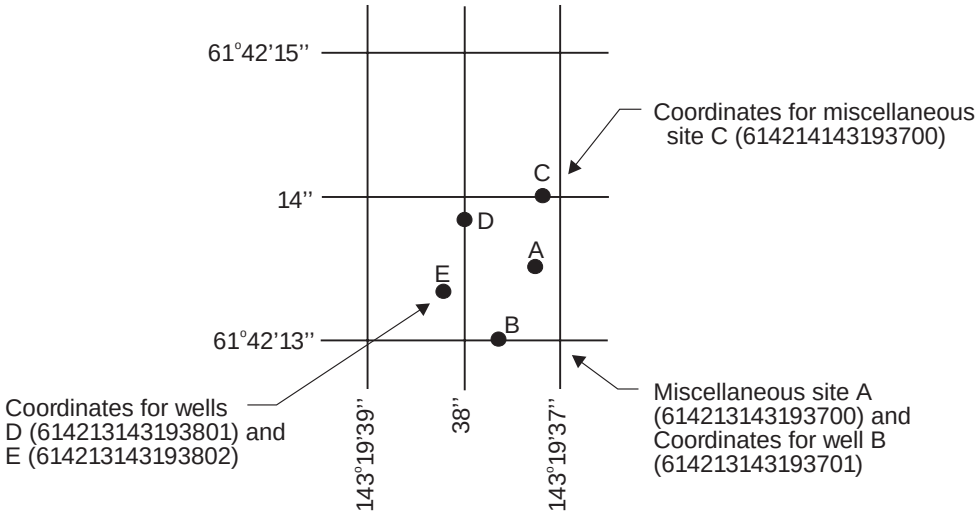
Since October 1, 1950, the order of listing hydrologic-station records in USGS reports is in a downstream direction along the main stream. All stations on a tributary entering upstream from a mainstream station are listed before that station. A station on a tributary that enters between two mainstream stations is listed between them. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary with respect to the stream to which it is immediately tributary is indicated by an indentation in the “List of Stations” in the front of this report. Each indentation represents one rank. This downstream order and system of indentation show which stations are on tributaries between any two stations and the rank of the tributary on which each station is situated. Stations located on islands in Alaska are in downstream order starting at the most westerly point on the island and moving around the island in a counter-clockwise direction (stations on Kodiak Island start at the most northerly point).

The station-identification number is assigned according to downstream order. In assigning station numbers, no distinction is made between regular stations and partial-record stations; therefore, the station number for a partial-record station indicates downstream-order position in a list made up of both types of stations. Water-quality stations located at or near regular stations or partial-record stations have the same number as the regular or partial-record station. Gaps are left in the series of numbers to allow for new stations that may be established; hence, the numbers are not consecutive. The complete eight-digit number for each station, such as 15303600, which appears just to the left of the station name, includes the two-digit Part number “15” plus the six-digit downstream order number “303600.” The Part number designates the State of Alaska. Occasionally, the downstream order number consists of eight digits.

Latitude-Longitude System

The identification numbers for miscellaneous surface-water sites, wells, springs, lakes, and reser-

voirs are assigned according to the grid system of latitude and longitude. The number consists of 15 digits. The first six digits denote the degrees, minutes, and seconds of latitude, the next seven digits denote degrees, minutes, and seconds of longitude, and the last two digits (assigned sequentially) identify the wells or other sites within a 1-second grid. This site-identification number, once assigned, is a pure number, and has no locational significance. In the rare instance where the initial determination of latitude and longitude are found to be in error, the station will retain its initial identification number; however, its true latitude and longitude will be listed in the LOCATION paragraph of the station description and also stored in the computerized data base files. See the accompanying diagram.



Local Number

The local number, which is assigned to well and spring sites, is derived in part from the rectangular subdivision of public lands and is used in Alaska as the site name. The first two letters indicate the principal meridian and the quadrant formed by the intersection of the base line and the principal meridian. The first three digits indicate the township in which the well or spring is located, the next three digits the range, and the last two digits the section. The letters following the section number indicate the quarter section, the quarter-quarter section, and so forth to the fourth order subdivision. Each of these subdivisions is lettered counter-clockwise, from the northeast corner. Each site within the smallest order of subdivision is then given a sequential number. Finally, each well within a section is assigned a sequential map number indicated by the last three digits. Thus, SB00601115BCAD1 001 denotes the Seward meridian (S), the northwest quadrant (B), township 6 north, range 11 west, section 15; and the site is in the SE¼ of NE¼ of the SW¼ of the NW¼ (BCAD) of the section. It was the first site in the 2.5 acre "D" subdivision assigned a sequential number (1). The next space is left blank. The next three digits, 001, indicate the sequence in which a site was located on a map. Thus, 001 indicates the first site plotted in the one-square-mile section. The next space is left blank. The last five digits, such as 00114, are the Alaska (AK) register number. Therefore, the local number is SB00601115BCAD1 001 00114. The local number for springs is the same, except for the last three digits and the Alaska (AK) register number, as indicated by the following example: SB00601115BCAD1S 4065S. Note: Public-land surveys have not been completed for a large portion of Alaska, therefore, some "local numbers" reflect this in an abbreviated form, e.g., SB00601115.

Records of Stage and Water Discharge

Records of stage and water discharge may be complete or partial. Complete records of discharge are those at which daily mean discharges can be computed or estimated with reasonable accuracy from the supporting data and information. Because the daily mean discharges commonly are published, the stations are referred to as “daily stations.”

By contrast, partial records are obtained through discrete measurements and pertain only to a few flow characteristics, or perhaps only one. The nature of the partial record is indicated by table titles such as “Crest-stage partial records” or “Low-flow partial records.” Records of miscellaneous discharge measurements or from special studies, such as low-flow seepage studies, may be considered as partial records, but they are presented separately in this report. Periodic lake-level measurements are also presented separately. Locations of all complete-record and crest-stage partial record stations for which data are given in this report are shown in figures 2 and 3, respectively.

Data Collection and Computation

Methodology

The base data collected at gaging stations consist of stage records and discharge measurements of streams, and stage of lakes. In addition, observations of factors affecting the stage-discharge relation, weather records, and other information are used to supplement base data in determining the daily flow. Records of stage are obtained from direct readings on a nonrecording gage or from a water-stage recorder that gives either a continuous graph of the fluctuations, a tape punched at selected time intervals, or an electronic data logger. Measurements of discharge are made with a current meter, using the general methods adopted by the U.S. Geological Survey. These methods are described in standard textbooks, in U.S. Geological Survey Water-Supply Paper 2175, and in U.S. Geological Survey Techniques of Water Resources Investigations, Book 3, Chapter A6.

Computation

In computing discharge records, results of individual measurements are plotted against the corresponding stages, and stage-discharge relation curves are then constructed. From these curves, rating tables indicating the approximate discharge for any stage within the range of the measurements are prepared. If it is necessary to define extremes of discharge outside the range of the current-meter measurements, the curves are extended using: (1) logarithmic plotting; (2) results of indirect measurements of peak discharge, such as slope-area or flow-through-culvert measurements and computations of flow-over-dams or weirs; (3) step-backwater techniques; or (4) velocity-area studies.

Daily mean discharges are computed by applying the daily mean stages (gage heights) to the stage-discharge curves or tables. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features that form the control, the daily mean discharge is determined by shifting control method, in which correction factors based on the individual discharge measurements and notes of the person who made the measurement are added (or subtracted) to the gage heights before the discharges are determined from the curves or tables. This shifting-control method also is used if the stage-discharge relation is changed temporarily because of debris or aquatic growth on the control.
In computing records of reservoir contents, it is necessary to have curves or tables defining the relation of stage and contents (from prior survey and computations). The application of stage to stage-content curves or tables gives the contents from which daily, monthly, or yearly changes can be determined. Discharges over lake or reservoir spillways are computed from stage-discharge relations much as other stream discharges are computed. Discharge through hydro-power plants can be calculated indirectly by using the theoretical relation of flow-rates with the amount of power being generated by each turbine, the reservoir level, and the estimated efficiency of each turbine. It is necessary to have tables, curves, or formulas relating the above variables (usually supplied by the manufacturer of the turbine). It is also necessary to have records of reservoir elevation, either from periodic observations or continuous records, and power-generation records (usually furnished by the operators of the power plant).

Winter discharge measurements

At most stream-gaging stations in Alaska, the stage-discharge relation is affected by ice in the winter, and it becomes impossible to compute the discharge in the usual manner. Discharge for periods of ice effect is computed or estimated on the basis of the available gage-height record and occasional winter discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrographers, and comparable records of discharge for other stations in the same or nearby basins. Determinations of 0.0 or no flow may indicate a lack of distinguishable velocity, but do not necessarily describe a dewatered channel.

Estimates for periods of no data

For some gaging stations there are periods when no gage-height record is obtained or the recorded gage height is so faulty that it cannot be used to compute daily discharge. This happens when the recorder is stopped for the winter or otherwise fails to operate properly, intakes are plugged, the float is frozen in the well, or for various other reasons. For such periods, the daily discharges are

estimated on the basis of recorded range in stage, prior and subsequent records, discharge measurements, weather records, and comparison with records for other stations in the same or nearby basins. Information explaining how estimated daily-discharge values are identified in station records is included in the next two sections, “Data Presentation” (“REMARKS” paragraph) and “Identifying Estimated Daily Discharge.”

Data Presentation

Streamflow data in this report are presented in a format that is considerably different from the format in data reports prior to the 1991 water year. The major changes are that statistical characteristics of discharge now appear in tabular summaries following the water-year data table and less information is provided in the text or station manuscript above the table. These changes represent the results of a pilot program to reformat the annual water-data report to meet current user needs and data presentation.

The records published for each continuous-record surface-water discharge station (gaging station) now consist of four parts: the manuscript or station description; the data table of daily mean values of discharge for the current water year with summary data; a tabular statistical summary of monthly mean flow data for a designated period, by water year; and a summary statistics table that includes statistical data of annual, daily, and instantaneous flows as well as data pertaining to annual runoff, 7-day low-flow minimum, and flow duration. Occasionally, data for other than the current year are published, usually to present unpublished data.

Station manuscript

The manuscript provides, under various headings, descriptive information, such as location of station; drainage area; period of record; record accuracy; and other remarks pertinent to station operation and regulation. For some stations, historical extremes outside the period of record and peak discharges greater than base discharge for the station are given. The following information, as appropriate, is provided with each continuous record of discharge, stage, or reservoir contents. Comments to clarify information presented under the various headings of the station description follow:

LOCATION.--Information on locations is obtained from the most accurate maps available. The USGS topographic map showing the location of the station is included in parentheses for many sites, e.g. (Livengood E-1). The location of the gage with respect to the cultural and physical features nearby and to the reference place mentioned in the station name is given.

DRAINAGE AREA.--Drainage areas are measured using the most accurate maps available. Because the type of maps available varies from one drainage basin to another or because of difficulties in determining drainage boundaries, the accuracy of drainage-area determinations likewise varies. As appropriate, some drainage-area figures are qualified by “approximately.” Drainage areas are updated as better maps become available.

PERIOD OF RECORD.--This indicates the period for which published records are available for the station or for an equivalent station. An equivalent station is one that was in operation at a time the present station was not, and whose location was such that records from it can be considered reasonably equivalent with records from the current station. Some daily stations were previously operated as partial-record stations or had only monthly discharge records published. These periods are included in the paragraph.

REVISED RECORDS.--Published records occasionally are found to be incorrect, usually because of new information, and revisions are printed in later reports. Listed under this heading are all the reports in which revisions have been published for the station and the water years to which the revisions apply. If a revision did not include daily, monthly, or annual discharge figures, that fact is noted after the year dates as follows: “(M)” means that only the instantaneous maximum discharge was revised; “(m)” that only the instantaneous minimum was revised; and “(P)” that only peak discharges were revised. If the drainage area has been revised, the report in which the most recently revised figure was first published is given.

GAGE.--The type of gage in current use, the datum of the current gage referred to sea level (see “Definition of Terms”), and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.--Periods of estimated daily discharge will be identified by date in this paragraph for selected stations. For all stations, estimated daily discharge will be flagged in the daily discharge table. (See next section “Identifying Estimated Daily Discharge.”) If a REMARKS paragraph is used to identify estimated record, this information would be the first entry. This paragraph is also used to present information relative to the accuracy of the records, to the special methods of computation, to conditions that affect natural flow at the station, and to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, outlet works and spillway, and purpose (use) of the reservoir.

COOPERATION.--Records provided by a cooperating organization or obtained for the U.S. Geological Survey by a cooperating organization are identified here. Also, if data or information are supplied which aid in the computation of the record, the agency providing the information is named.

EXTREMES FOR PERIOD OF RECORD.--This paragraph is included in the station manuscript for stations for which tabular summary statistics are not appropriate because they have short records, seasonal records, or regulated flow.

EXTREMES OUTSIDE PERIOD OF RECORD.--Information about floods or unusually low flows that have occurred outside the stated period of record is included. The information may or may not have been obtained by the U.S. Geological Survey.

EXTREMES FOR CURRENT YEAR or EXTREMES FOR CURRENT PERIOD.--This paragraph is included in the station manuscript for selected sites where peaks above base discharge are published and for stations for which tabular summary statistics are not appropriate because they have short records, seasonal records, or regulated flow. For records that meet certain criteria, all peak discharges and stages greater than a selected base discharge during the water year are given. The peaks greater than the base discharge, excluding the highest one, are called secondary peaks. The time that the peak occurred is expressed in 24-hour local standard time; for example, 12:30 a.m. is 0030 and 1:30 p.m. is 1330. Except for stations for which tabular summary statistics are not appropriate, the maximum and minimum for the current water year appears below the daily values table in the tabular summaries.

REVISIONS.--If a critical error in published records is discovered, a revision is included in the

first report published following discovery of the error.

Although rare, occasionally the records of a discontinued gaging station may need revision. For these stations, there may be no current or, possibly, future station manuscript published to document the revision in a “Revised Records” entry; users of data for these stations who obtained the record for previously published data reports may wish to contact the District Office (address given on the back of the title page of this report) to determine if the published records were ever revised after the station was discontinued. If the data for a discontinued station were obtained by computer retrieval, the data would be current because any previously published data are automatically accompanied by revision of the corresponding data in computer storage.

Manuscript information for lake or reservoir stations differs from that for stream stations in the nature of the “Remarks” and in the inclusion of a skeleton stage-capacity table when daily contents are given.

Headings that appeared in reports before water year 1991 for AVERAGE DISCHARGE, EXTREMES FOR PERIOD OF RECORD, and EXTREMES FOR CURRENT YEAR have been deleted and the information contained in these paragraphs, except for the listing of secondary instantaneous peak discharges in the EXTREMES FOR CURRENT YEAR paragraph, is now presented in the tabular summaries following the discharge table or in the REMARKS paragraph, as appropriate, except for stations for which tabular summary statistics are not appropriate. No changes have been made to the data presentation of lake contents.

Data table of daily mean values

The daily table of discharge records for stream-gaging stations gives the mean discharge for each day of the water year. In the monthly summary for the daily table, the line headed “TOTAL” gives the sum of the daily figures for each month; the line headed “MEAN” gives the average flow in cubic feet per second for the month; and the lines headed “MAX” and “MIN” give the maximum and minimum daily mean discharges, respectively, for each month. Discharge for the month also may be expressed in acre-feet (line headed “AC-FT”), in cubic feet per second per square mile (line headed “CFSM”), or in inches (line headed “IN”). Figures for cubic feet per second per square mile and runoff in inches are omitted if there is extensive regulation or diversion, if the contributing drainage area or boundaries are unknown, or if the flow is mostly from a spring. At some stations, monthly and (or) yearly discharges are adjusted for diversions or changes in reservoir contents.

Statistics of monthly mean data

A tabular summary of the mean (line headed “MEAN”), maximum (line headed “MAX”), and minimum (line headed “MIN”) of monthly mean flows for each month for a designated period is provided below the mean values table. The water years of the first occurrence of the maximum and minimum monthly flows are provided immediately below those figures. The designated period will be expressed as “FOR WATER YEARS ____ - ____, BY WATER YEAR (WY),” and will list the first and last water years of the range of years selected from the PERIOD OF RECORD paragraph in the station manuscript. It will consist of all the station records within the specified water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will

be consecutive, unless a break in the station record is indicated in the manuscript.

Summary statistics

A table titled “SUMMARY STATISTICS” follows the statistics of monthly mean data tabulation. This table consists of four columns, with the first column containing the line headings of the statistics being reported. The table provides a statistical summary of yearly, daily, and instantaneous flows, not only for the current water year but also for the previous calendar year and for a designated period, as appropriate. The designated period selected, “WATER YEARS ____-____” will consist of all of the station records within the specific water years, inclusive, including complete months of record for partial water years, if any, and may coincide with the period of record for the station. The water years for which the statistics are computed will be consecutive, unless a break in the station record is indicated in the manuscript. All of the calculations for the statistical characteristics designated ANNUAL (see line headings below), except for the “ANNUAL 7-DAY MINIMUM” statistic, are calculated for the designated period using complete water years. The other statistical characteristics may be calculated using partial water years.

The date or water year, as appropriate, of the first occurrence of each statistic reporting extreme values of discharge is provided adjacent to the statistic. Repeated occurrences may be noted in the REMARKS paragraph of the manuscript or in footnotes. Because the designated period may not be the same as the station period of record published in the manuscript, occasionally the dates of occurrence listed for the daily and instantaneous extremes in the designated-period column may not be within the selected water years listed in the heading. When this occurs, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration curve statistics and runoff data are also given. Runoff data may be omitted if there is extensive regulation or diversion of flow in the drainage basin.

The following summary statistics data, as appropriate, are provided with each continuous record of discharge. The comments clarify information presented under the various line headings of the summary statistics table.

ANNUAL TOTAL.--The sum of the daily mean values of discharge for the year. At some stations, the annual total discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

ANNUAL MEAN.--The arithmetic mean of the individual daily mean discharges for the year noted or for the designated period. At some stations, the annual mean discharge is adjusted for reservoir storage or diversion. The adjusted figures are identified by a symbol and corresponding footnotes.

HIGHEST ANNUAL MEAN.--The maximum annual mean discharge occurring for the designated period.

LOWEST ANNUAL MEAN.--The minimum annual mean discharge occurring for the designated period.

HIGHEST DAILY MEAN.--The maximum daily mean discharge for the year or for the designated period.

LOWEST DAILY MEAN.--The minimum daily mean discharge for the year or for the designated period.

ANNUAL 7-DAY MINIMUM.--The lowest mean discharge for consecutive days for a calendar year or a water year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1 - March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

INSTANTANEOUS PEAK FLOW.--The maximum instantaneous discharge occurring for the water year or for the designated period. Note that secondary instantaneous peak discharges above a selected base discharge are stored in District computer files for stations meeting certain criteria. Those discharge values may be obtained by contacting the District Office. (See address on the back of the title page.)

INSTANTANEOUS PEAK STAGE.--The maximum instantaneous stage occurring for the water year or for the designated period. If the dates of occurrence for the instantaneous peak flow and instantaneous peak stage differ, footnotes may be used to provide further information. (For Alaska, a second line heading, INSTANTANEOUS PEAK STAGE, is used for stations where the peak stage was from a backwater condition and had a different date from the peak discharge.)

INSTANTANEOUS LOW FLOW.--The minimum instantaneous discharge occurring for the water year or for the designated period.

ANNUAL RUNOFF.--Indicates the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

Acre-foot (AC-FT) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.

Cubic feet per second per square mile (CFSM) is the average number of cubic feet of water flowing per second from each square mile area drained, assuming the runoff is distributed uniformly in time and area.

Inches (INCHES) indicates the depth to which the drainage area would be covered if all of the runoff for a given time period were uniformly distributed on it.

10 PERCENT EXCEEDS.--The discharge that has been exceeded 10 percent of the time for the designated period.

50 PERCENT EXCEEDS.--The discharge that has been exceeded 50 percent of the time for the designated period.

90 PERCENT EXCEEDS.--The discharge that has been exceeded 90 percent of the time for the designated period.

Data collected at partial-record stations follow the information for continuous-record sites. In prior

years, data for low-flow partial-record stations have been published, but no stations were in operation in the current water year. Data are presented in two tables. The first is a table of annual maximum stage and discharge at crest-stage partial-record stations. The second is a table of discharge measurements made at crest-stage partial-record stations and miscellaneous sites. Occasionally, a series of discharge measurements are made within a short time period to investigate the seepage gains or losses along a reach of a stream or to determine the low-flow characteristics of an area. Such measurements are given in special tables following the listing of miscellaneous measurements. Lake-level data collected at miscellaneous selected lakes are included. The data are being collected at these selected lakes to define lake-level changes in response to seasonal variations, the effects of man, droughts, and changes in the ground-water system. The lake-level data follow the water-quality data tables for miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values in the current annual data report are identified by the "e" notation next to each mean daily discharge in the daily values tables. Prior to the report for the 1985 water year, estimated daily-discharge values were not specifically identified.

Accuracy of the Records

The accuracy of streamflow data depends primarily on: (1) the stability of the stage-discharge relation or, if the control is unstable, the frequency of discharge measurements; and (2) the accuracy of observations of stage, measurements of discharge, and interpretations of records.

The station description under “REMARKS” states the degree of accuracy of the records. “Excellent” means that about 95 percent of the daily discharges are within 5 percent of the true value; “good” within 10 percent; and “fair” within 15 percent. Records are rated as “poor” when they do not meet the criteria above. Different accuracies may be attributed to different parts of a given record.

Figures of daily mean discharge in this report are shown to the nearest hundredth of a cubic foot per second for discharges of less than 1 ft^3/s; to the nearest tenth between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to 3 significant figures above 1,000 ft^3/s. The number of significant figures used is based solely on the magnitude of the discharge value. The same rounding rules apply to discharges listed for partial-record stations and miscellaneous measurement sites.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, flow from springs, or to other factors. For such stations, figures of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions or for other factors that might affect the flows. At those stations where adjustments are made, large errors in computed runoff may occur if adjustments are large in comparison to observed discharge. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents.

Other Data Available

Information of a more detailed nature than that published for most of the gaging stations such as observations of water temperatures, discharge measurements, gage-height records, and rating tables, is filed in the field offices at Anchorage, Fairbanks, and Juneau for their areas of responsibility. Also, most of the daily mean discharges are in computer files and can be retrieved for statistical analyses. Information on the availability of unpublished data or statistical analyses may be obtained from the District Office in Anchorage.

Records of Surface-Water Quality

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because interpretation of records of surface-water quality nearly always requires corresponding discharge data. Records of surface-water quality in this report involve a variety of types of data and measurement frequencies.

Classification of Records

Water-quality data for surface-water sites are grouped into one of three classifications. A continuing-record station is a site where data are collected on a regularly scheduled basis. Frequency may be once or more times daily, weekly, monthly, or quarterly. A partial-record station is a site where water-quality data are collected systematically over a period of years. Frequency of sampling is usually less than quarterly. A miscellaneous sampling site is a location other than a continuing or partial-record station, where random samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A distinction needs to be made between “continuing records” as used in this report and “continuous recordings,” which refers to a continuous graph or a series of discrete values recorded at short intervals. Some records of water quality, such as temperature and specific conductance, may be obtained by continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

Arrangement of Records

Water-quality records collected at a surface-water daily record station are published immediately following that record, regardless of the frequency of sample collection. Station number and name are the same for both records. Where a surface-water daily record station is not available or where the water quality differs significantly from that at the nearby surface-water station, the continuing water-quality record is published with its own station number and name in the regular downstream-order sequence. Water-quality data for partial-record stations and for miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites.

On-Site Measurements and Sample Collection

To assure the data obtained represent the *in situ* quality of the water, certain measurements, such as water temperature, pH, alkalinity, and dissolved oxygen, are made onsite when the samples are collected. To assure that measurements made in the laboratory also represent the *in situ* water, prescribed procedures are followed in collecting, treating, and shipping the samples to prevent changes in quality pending analysis in the laboratory. These procedures are given in U.S. Geological Survey Techniques of Water-Resources Investigations, Book 1, Chapter D2; Book 3, Chapter C2; Book 5, Chapters A1, A3, and A4.

One sample can adequately define the water quality at a given time if the mixture of solutes throughout the stream cross section is homogeneous. However, the concentration of solutes at different locations in the cross section may vary widely with different rates of water discharge, depending on the source of material and the turbulence and mixing of the stream. Some streams must be sampled through several vertical sections to obtain a representative sample needed for an accurate mean concentration and for use in calculating load. For the tables of surface-water quality that are published in this report, parameter code 82398 (SAMPLING METHOD, CODES) lists a numeric value which corresponds to the

following explanation:

10 - Equal width increment (EWI)
20 - Equal discharge increment (EDI)
25 - Timed sampling interval
30 - Single vertical
40 - Multiple verticals
50 - Point sample
60 - Weighted bottle
70 - Grab sample (dip)
80 - Discharge integrated, equal transit rate (ETR)
90 - Discharge integrated, centroid
100 - Van Dorn sampler
110 - Sewage sampler
120 - Velocity integrated
8010 - Other

To better define the sample, parameter code 84164 (SAMPLER TYPE) lists a numeric value which corresponds to the following explanation:

100 - Van Dorn sampler
110 - Sewage sampler
3001 - Sampler, US DH-48
3002 - Sampler, US DH-59
3003 - Sampler, US DH-75P
3004 - Sampler, US DH-75Q
3007 - Sampler, US D-49
3009 - Sampler, US D-74
3011 - Sampler, US D-77
3015 - Sampler, US P-63
3016 - Sampler, US P-72
3042 - Sampler, US P-61
3044 - US DH-81
3045 - US DH -81 with Teflon cap and nozzle
3050 - Teflon Bag Sampler
3070 - Grab Sampler
4020 - Open top bailer
4025 - Double valve bailer
4080 - Peristaltic pump
8010 - Other

For further explanation on sampling methods, see Techniques of Water-Resources Investigations, Book 3, Chapter C2, "Field Methods for Measurement of Fluvial Sediment."

Chemical-quality data published in this report are considered to be the most representative values available for the stations listed. The values reported represent water-quality conditions at the time of sampling as much as possible, consistent with available sampling techniques and methods of analysis. In the rare case where an apparent inconsistency exists between a reported pH value and the relative abundance of carbon dioxide species (carbonate and bicarbonate), the inconsistency is the result of a slight uptake of carbon dioxide from the air by the sample between measurement of pH in the field and determination of carbonate and bicarbonate in the laboratory.

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are sometimes taken at the time of discharge measurements at water-discharge stations. Large streams have a small daily temperature change; shallow streams may have a daily range of several degrees and may follow closely the changes in air temperature. Some streams may be affected by waste-heat discharges.

At stations where temperature recording instruments are used, maximum and minimum temperatures for each day are published. Mean temperatures are published when diurnal variations are greater than 2.0 °C more than 5 percent of the water year. Water temperatures measured at the time of water-discharge measurements are on file in the District field offices.

Sediment

Suspended-sediment concentrations are determined from samples collected by using depth-integrating samplers. Samples usually are obtained at several verticals in the cross section, or a single sample may be obtained at a fixed point and a coefficient applied to determine the mean concentration in the cross sections.

During periods of rapidly changing flow or rapidly changing concentration, samples may have been collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration were computed by the subdivided day method (time-discharge weighted average). Therefore, for those days when the published sediment discharge value differs from the value computed as the product of discharge times mean concentration times 0.0027, the reader can assume that the sediment discharge for that day was computed by the subdivided day method. For periods when no samples were collected, daily loads of suspended sediment were estimated on the basis of water discharge, sediment concentrations observed immediately before and after the periods, and suspended-sediment loads for other periods of similar discharge.

At other stations, suspended-sediment samples were collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observations, such data are useful in establishing seasonal relations between quality and streamflow in predicting long-term sediment-discharge characteristics of the stream.

In addition to the records of quantities of suspended sediment, records of periodic measurements of the particle-size distribution of the suspended sediment and bed material are included.

Laboratory Measurements

Sediment samples are analyzed in the U.S. Geological Survey laboratory in Vancouver, Washington. Methods used in analyzing sediment samples and computing sediment records are given in Techniques of Water-Resources Investigations, Book 5, Chapter C1. Methods used by the Geological Survey laboratory are given in TWRI, Book 1, Chapter D2; Book 3, Chapter C2; Book 5, Chapters A1, A3, and A4.

Records of Ground-Water Levels

Ground-water level data from a statewide network of observation wells are published in this report. This network consists of observation wells (figure 3) located either in important aquifers or in areas of significant water use.

Data Collection and Computation

Water-level measurements are made in many types of wells, under varying conditions of access and weather conditions. However, the equipment and measuring techniques used at each observation well assure that the measurements are of consistent accuracy and reliability.

Tables of water-level data are presented by Hydrologic Subregion. The station-identification number for a given well is the 15-digit number that appears in the upper left corner of the station description. The secondary identification number is the local number, an alphanumeric number, derived from the township-range location of the well.

Water-level records are obtained from direct measurements with a steel tape, battery-operated electric tape, or from a water-stage recorder that gives a continuous graph of water-level fluctuations, a paper tape punched at selected time intervals, or data stored at selected time intervals on an electronic data logger. The water-level measurements in this report are given in feet with reference to either sea level or land-surface datum. Sea level is the datum plane on which the national network of precise levels is based; land-surface datum is a datum plane that is approximately at land surface at each well. The altitude of the land-surface datum is given in the well description. The height of the measuring point above or below land-surface datum is also given in each well description. Water levels in wells equipped with recording gages are the highest ground-water level recorded in the well on the day indicated.

Water levels are reported to as many significant figures as can be justified by the local conditions. For example, in a measurement of a depth to water of several hundred feet and if an electric water sensor is used, the error in determining the absolute value of the total depth to water may be a few tenths of a foot. However, the error in determining the net change of water level between successive measurements may be only a hundredth or a few hundredths of a foot. For lesser depths to water, the accuracy is greater. Accordingly, most measurements are reported to a hundredth of a foot, but some may be given only to a tenth of a foot.

Data Presentation

Each well record consists of the station description and the data table of water levels observed during the water year. The description of the well is presented through use of descriptive headings preceding the tabular data. Clarification of each heading is given below.

LOCATION.--This paragraph follows the well-identification number and reports the latitude and longitude (given in degrees, minutes, and seconds); the Hydrologic Unit; the distance and direction from a geographic point of reference; and the owner's name.

AQUIFER.--This entry designates by name (if a name exists) and geologic age the aquifer(s) open

to the well.
WELL CHARACTERISTICS.--This entry describes the well in terms of depth, diameter, casing depth and/or screened interval, method of construction, and additional information such as casing breaks, collapsed screen, and other changes since construction.

INSTRUMENTATION.--This paragraph provides information on both the frequency of measurement and the collection method used, allowing the user to better evaluate the reported water-level extremes by knowing whether they are based on weekly, monthly, or some other frequency of measurement.

DATUM.--This entry describes both the measuring point and the land-surface elevation at the well. The measuring point is described physically (such as top of collar, notch in top of casing, plug in pump base and so on), and in relation to land surface (such as 1.3 ft above land-surface datum). The elevation of the land-surface datum is described in feet above sea level; it is reported with a precision depending on the method of determination.

REMARKS.--This entry describes factors that may influence the water level in a well or the measurement of the water level. It should identify wells that also are water-quality observation wells and may be used to acknowledge the assistance of local (non-Survey) observers.

PERIOD OF RECORD.--This entry indicates the period for which there are published records for the well. It reports the month and year of the start of publication of water-level records by the U.S. Geological Survey and the words "to current year" if the records are to be continued into the following year. Periods for which water-level records are available, but are not published by the U.S. Geological Survey, may be noted.

EXTREMES FOR PERIOD OF RECORD.--This entry contains the highest and lowest water levels of the period of record, with respect to land-surface datum or sea level, and the dates of their occurrence.

A table of water levels follows the station description for each well. Water levels are reported in feet above or below land-surface datum. Water levels that are above land-surface datum have negative values. For wells equipped with recorders, water level values listed are the highest recorded in the well on the day indicated. Missing records are indicated by dashes in place of the water level.

Information of a more detailed nature than that published, such as well depths and water levels from other ground-water sites throughout the State, is filed in the Anchorage field office. Much of the data are in computer files and can be retrieved for analysis. Information on the availability of unpublished data may be obtained from the District Office in Anchorage.

Records of Ground-Water Quality

Records of ground-water quality in this report differ from other types of records in that for most sampling sites they consist of only one set of measurements for the water year. The quality of ground water ordinarily changes slowly; therefore, for most general purposes one annual sampling, or a few samples taken at infrequent intervals during the year, is sufficient. Frequent measurement of the same constituents is not necessary unless one is concerned with a particular problem, such

as monitoring for trends in nitrate concentration. In special cases where the quality of ground water may change more rapidly, more frequent measurements are made to identify the nature of the changes.

Data Collection and Computation

The records of ground-water quality in this report were obtained mostly as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some areas but none for other areas. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide. Such a view can be attained only by considering records for this year in context with similar records obtained for these and other areas in earlier years.

Data Presentation

The records of ground-water quality are published in a section titled QUALITY OF GROUND WATER immediately following the ground-water-level records. Data for quality of ground water are listed by Hydrologic Subregion, and are identified by well number. The station-identification number for wells sampled is the 15-digit number derived from the latitude-longitude locations. No descriptive statements are given for ground-water-quality records; however, the well number, depth of well, date of sampling, and other pertinent data are given in the table containing the chemical analyses of the ground water.

ACCESS TO USGS WATER DATA

The USGS provides near real-time stage and discharge data for many of the gaging stations equipped with the necessary telemetry and historic daily-mean and peak-flow discharge data for most current or discontinued gaging stations through the Internet. These data may be accessed at:

http://water.usgs.gov

Some water-quality and ground-water data also are available through the Internet. In addition, data can be provided in various machine-readable formats on magnetic tape or 3-1/2 inch floppy disk. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each of the Water Resources Division District Offices (see address on the back of the title page).

DEFINITION OF TERMS

Terms related to streamflow, water-quality, and other hydrologic data, as used in this report, are defined below. See also table for converting English units to International System (SI) Units on the inside of the back cover.

Acid neutralizing capacity (ANC) is the equivalent sum of all bases or base-producing materials, solutes plus particulates, in an aqueous system that can be titrated with acid to an equivalence point. This term designates titration of an “unfiltered” sample (formerly reported as alkalinity).

Acre-foot (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equivalent to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters.

Adenosine triphosphate (ATP) is an organic, phosphate-rich, compound important in the transfer of energy in organisms. Its central role in living cells makes it an excellent indicator of the presence of living material in water. A measurement of ATP therefore provides a sensitive and rapid estimate of biomass. ATP is reported in micrograms per liter.

Algae are mostly aquatic single-celled, colonial, or multicelled plants containing chlorophyll and lacking roots, stems, and leaves.

Algal growth potential (AGP) is the maximum algal dry weight biomass that can be produced in a natural water sample under standardized laboratory conditions. The growth potential is the algal biomass present at stationary phase and is expressed as milligrams dry weight of algae produced per liter of sample.

Alkalinity is the capacity of solutes in an aqueous system to neutralize acid. This term designates titration of a “filtered” sample.

Annual runoff is the total quantity of water in runoff for a drainage area for the year. Data reports may use any of the following units of measurement in presenting annual runoff data:

> **Acre-foot** (AC-FT, acre-ft) is the quantity of water required to cover 1 acre to a depth of 1 foot and is equal to 43,560 cubic feet, 325,851 gallons, or 1,233 cubic meters
>
> **Cubic foot per second per square mile** [CFSM, $(ft^3/s)/mi^2$] is the average number of cubic feet of water flowing per second from each square mile of area drained, assuming the runoff is distributed uniformly in time and area.
>
> **Inch** (IN., in.) as used in this report, refers to the depth to which the drainage area would be covered with water if all of the runoff for a given time period were uniformly distributed on it.

Aroclor is the registered trademark for a group of polychlorinated biphenyls that were manufactured by the Monsanto Company prior to 1976. Aroclors are assigned specific 4-digit reference numbers dependent upon molecular type and degree of substitution of the biphenyl ring hydrogen atoms by chlorine atoms. The first two digits of a numbered aroclor represent the molecular type and the last two digits represent the weight percent of the hydrogen substituted chlorine.

Bacteria are microscopic unicellular organisms, typically spherical, rodlike, or spiral and threadlike in shape, often clumped into colonies. Some bacteria cause disease, while others per-

form an essential role in nature in the recycling of materials; for example, by decomposing organic matter into a form available for reuse by plants.

Total coliform bacteria are a particular group of bacteria that are used as indicators of possible sewage pollution. This group includes coliforms that inhabit the intestine of warm-blooded animals and those that inhabit soils. They are characterized as aerobic or facultative anaerobic, gram-negative, nonspore-forming, rod-shaped bacteria that ferment lactose with gas formation within 48 hours at 35 °C. In the laboratory, these bacteria are defined as all the organisms that produce colonies with a golden-green metallic sheen within 24 hours when incubated at 35 °C plus or minus 1.0 °C on M-Endo medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal coliform bacteria are bacteria that are present in the intestine or feces of warm-blooded animals. They are often used as indicators of the sanitary quality of the water. In the laboratory, they are defined as all organisms that produce blue colonies within 24 hours when incubated at 44.5 °C plus or minus 0.2 °C on M-FC medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Fecal streptococcal bacteria are bacteria found in the intestine of warm-blooded animals. Their presence in water is considered to verify fecal pollution. They are characterized as gram-positive, cocci bacteria that are capable of growth in brain-heart infusion broth. In the laboratory, they are defined as all the organisms that produce red or pink colonies within 48 hours at 35 °C plus or minus 1.0 °C on KF-streptococcus medium (nutrient medium for bacterial growth). Their concentrations are expressed as number of colonies per 100 mL of sample.

Enterococcus bacteria are commonly found in the feces of humans and other warm-blooded animals. Although some strains are ubiquitous and not related to fecal pollution, the presence of enterococci in water is an indication of fecal pollution and the possible presence of enteric pathogens. Enterococcus bacteria are those bacteria that produce pink to red colonies with black or reddish-brown precipitate after incubation at 41 °C on mE agar and subsequent transfer to EIA medium. Enterococci include *Streptococcus feacalis, Streptococcus feacium, Streptococcus avium,* and their variants.

Escherichia coli (E. coli) are bacteria present in the intestine and feces of warm-blooded animals. *E. coli* are a member species of the fecal coliform group of indicator bacteria. In the laboratory, they are defined as those bacteria that produce yellow or yellow-brown colonies on a filter pad saturated with urea substrate broth after primary culturing for 22 to 24 hours at 44.5 °C on mTEC medium. Their concentrations are expressed as number of colonies per 100 mL of sample.

Base flow is flow in a channel sustained by ground-water discharge in the absence of direct runoff.

Bed material is the sediment mixture of which a streambed, lake, pond, reservoir, or estuary bottom is composed.

Benthic organisms (invertebrates) are the group of animals inhabiting the bottom of an aquatic environment. They include a number of types of organisms, such as bacteria, fungi, insect larvae and nymphs, snails, clams, and crayfish. They are useful as indicators of water quality.

Biochemical oxygen demand (BOD) is a measure of the quantity of dissolved oxygen, in milligrams per liter, necessary for the decomposition of organic matter by microorganisms, such as bacteria.

Biomass is the amount of living matter present at any given time, expressed as mass per unit area or volume of habitat.

Ash mass is the mass or amount of residue present after the residue from the dry mass determination has been ashed in a muffle furnace at a temperature of 500 °C for 1 hour. Ash mass of zooplankton and phytoplankton is expressed in grams per cubic meter (g/m^3), and periphyton and benthic organisms in grams per square meter (g/m^2).

Dry mass refers to the mass of residue present after drying in an oven at 105 °C for zooplankton and periphyton, until the mass remains unchanged. This mass represents the total organic matter, ash, and sediment in the sample. Dry mass is expressed in the same units as ash mass.

Organic mass or volatile mass of the living substance is the difference between the dry mass and ash mass and represents the actual mass of the living matter. Organic mass is expressed in the same units as for ash mass and dry mass.

Wet mass is the mass of living matter plus contained water.

Biomass pigment ratio is an indicator of the total proportion of periphyton which are autotrophic (plants). This is also called the Autotrophic Index.

Bottom material: See “Bed material.”

Cells/volume refers to the number of plankton cells or natural units counted using a microscope and grid or counting cell. Results are generally reported as cells or units per milliliter.

Cells volume (biovolume) determination is one of several common methods used to estimate biomass of algae in aquatic systems. Cell members of algae are frequently used in aquatic surveys as an indicator of algal production. However, cell numbers alone cannot represent true biomass because of considerable cell-size variation among the algal species. Cell volume (μm^3) is determined by obtaining critical cell measurements on cell dimensions (for example, length, width, height, or radius) for 20 to 50 cells of each important species to obtain an average biovolume per cell. Cells are categorized according to the correspondence of their cellular shape to the nearest geometric solid or combinations of simple solids (for example, spheres, cones, or cylinders). Representative formulae used to compute biovolume are as follows:

sphere $4/3\ \pi r^3$ cone $1/3\ \pi r^3 h$ cylinder $\pi r^3 h$.

From cell volume, total algal biomass expressed as biovolume ($\mu m^3/mL$) is thus determined by multiplying the number of cells of a given species by its average cell volume and then summing these volumes over all species.

Chemical oxygen demand (COD) is a measure of the chemically oxidizable material in the water and furnishes an approximation of the amount of organic and reducing material present. The determined value may correlate with BOD or with carbonaceous organic pollution from sewage or industrial wastes.

Chlorophyll refers to the green pigments of plants. Chlorophyll a and b are the two most common green pigments in plants.

Colloid is any substance with particles in such a fine state of subdivision dispersed in a medium (for example, water) that they do not settle out; but not in so fine a state of subdivision that they can be said to be truly dissolved.

Color unit is produced by 1 milligram per liter of platinum in the form of the chloroplatinate ion. Color is expressed in units of the platinum-cobalt scale.

Confined aquifer is a term used to describe an aquifer containing water between two relatively impermeable boundaries. The water level in a well tapping a confined aquifer stands above the top of the confined aquifer and can be higher or lower than the water table that may be present in the material above it. In some cases the water level can rise above the ground surface, yielding a flowing well.

Contents is the volume of water in a reservoir or lake. Unless otherwise indicated, volume is computed on the basis of a level pool and does not include bank storage.

Continuous-record station is a site that meets either of the following conditions:

1. Stage or streamflow are recorded at some interval on a continuous basis. The recording interval is usually 15 minutes, but may be less or more frequent.
2. Water-quality, sediment, or other hydrologic measure-ments are recorded at least daily.

Control designates a feature in the channel downstream from a gaging station that physically influences the water-surface elevation and thereby determines the stage-discharge relation at the station. This feature may be a constriction of the channel, a bedrock outcrop, a gravel bar, an artificial structure, or a uniform cross section over a long reach of the channel.

Control structure as used in this report is a structure on a stream or canal that is used to regulate the flow or stage of the stream or to prevent the intrusion of saltwater.

Cubic foot per second (CFS, ft^3/s) is the rate of discharge representing a volume of 1 cubic foot passing a given point in 1 second. It is equivalent to approximately 7.48 gallons per second, 448.8 gallons per minute, or 0.02832 cubic meters per second.

Cubic foot per second-day (CFS-DAY, Cfs-day, [(ft^3/s)/d]) is the volume of water represented by a flow of 1 cubic foot per second for 24 hours. It is equivalent to 86,400 cubic feet, 1.9835 acre-feet, 646,317 gallons, or 2,447 cubic meters.

Daily record is a summary of streamflow, sediment, or water-quality values computed from data collected with sufficient frequency to obtain reliable estimates of daily mean values.

Daily record station is a site for which daily records of streamflow, sediment, or water-quality values are computed.

Datum, as used in this report, is an elevation above mean sea level to which all gage height readings are referenced.

Diel is of or pertaining to a 24-hour period of time; a regular daily cycle.

Discharge, or flow, is the volume of water (or more broadly, volume of fluid including solid- and dissolved-phase material), that passes a given point in a given period of time.

Annual 7-day minimum is the lowest mean discharge for 7 consecutive days in a year. Note that most low-flow frequency analyses of annual 7-day minimum flows use a climatic year (April 1-March 31). The date shown in the summary statistics table is the initial date of the 7-day period. (This value should not be confused with the 7-day 10-year low-flow statistic.)

Instantaneous discharge is the discharge at a particular instant of time.

Mean discharge (MEAN) is the arithmetic mean of individual daily mean discharges during a specific period.

Dissolved refers to that material in a representative water sample that passes through a 0.45-micrometer membrane filter. This is a convenient operational definition used by Federal agencies that collect water data. Determinations of “dissolved” constituents are made on subsamples of the filtrate.

Dissolved oxygen (DO) content of water in equilibrium with air is a function of atmospheric pressure, temperature, and dissolved-solids concentration of the water. The ability of water to retain oxygen decreases with increasing temperature or dissolved solids, with small temperature changes having the more significant offset. Photosynthesis and respiration may cause diurnal variations in dissolved-oxygen concentration in water from some streams.

Dissolved-solids concentration of water is determined either analytically by the “residue-on-evaporation” method, or mathematically by totaling the concentrations of individual constituents reported in a comprehensive chemical analysis. During that analytical determination of dissolved solids, the bicarbonate (generally a major dissolved component of water) is converted to carbonate. Therefore, in the mathematical calculation of dissolved-solids concentration, the bicarbonate value, in milligrams per liter, is multiplied by 0.4926 to reflect the change. Alternatively, alkalinity concentration (as mg/L $CaCO_3$) can be converted to carbonate concentration by multiplying by 0.60.

Diversity index is a numerical expression of evenness of distribution of aquatic organisms. The formula for diversity index is:

$$\bar{d} = -\sum_{i \approx 1}^{s} \frac{n_i}{n} \log_2 \frac{n_i}{n}$$

where n_i is the number of individuals per taxon, n is the total number of individuals, and s is the total number of taxa in the sample of the community. Diversity index values range from zero, when all the organisms in the sample are the same, to some positive number, when some or all of the organisms in the sample are different.

Drainage area of a site on a stream is that area, measured in a horizontal plane, that has a common outlet at the site for its surface runoff. Figures of drainage area given herein include all closed basins, or noncontributing areas, within the area unless otherwise specified.

Drainage basin is a part of the Earth’s surface that is occupied by a drainage system with a common outlet for its surface runoff (see “Drainage area”).

Dry weight refers to the weight of animal tissue after it has been dried in an oven at 65 °C until a constant weight is achieved. Dry weight represents total organic and inorganic matter in the tissue.

Flow-duration percentiles are values on a scale of 100 that indicate the percentage of time for which a flow is not exceeded. For example, the 90th percentile of river flow is greater than or equal to 90 percent of all recorded flow rates.

Gage datum is the elevation of the zero point of the reference gage from which gage height is determined as compared to sea level (see “Datum”). This elevation is established by a system of levels from known benchmarks, by approximation from topographic maps, or by geographical positioning system.

Gage height (G.H.) is the water-surface elevation referenced to the gage datum. Gage height is often used interchangeably with the more general term “stage,” although gage height is more appropriate when used with a reading on a gage.

Gaging station is a site on a stream, canal, lake, or reservoir where systematic observations of stage, discharge, or other hydrologic data are obtained. When used in connection with a discharge record, the term is applied only to those gaging stations where a continuous record of discharge is computed.

Gas chromatography/flame ionization detector (GC/FID) is a laboratory analytical method used as a screening technique for semivolatile organic compounds that are extractable from water in methylene chloride.

Ground-water level is the elevation of the water table or another potentiometric surface at a particular location.

Hardness of water is a physical-chemical characteristic that is commonly recognized by the increased quantity of soap required to produce lather. It is attributable to the presence of alkaline earths (principally calcium and magnesium) and is expressed as the equivalent concentration of calcium carbonate ($CaCO_3$).

High tide is the maximum height reached by each rising tide. The high-high and low-high tides are the higher and lower of the two high tides, respectively, of each tidal day. *See NOAA web site:*
http://www.co-ops.nos.noaa.gov/tideglos.html

Hydrologic benchmark station is one that provides hydrologic data for a basin in which the hydrologic regimen will likely be governed solely by natural conditions. Data collected at a benchmark station may be used to separate effects of natural from human-induced changes in other basins that have been developed and in which the physiography, climate, and geology are similar to those in the undeveloped benchmark basin.

Hydrologic unit is a geographic area representing part or all of a surface drainage basin or distinct hydrologic feature as defined by the former Office of Water Data Coordination and delineated on the State Hydrologic Unit Maps by the U.S. Geological Survey. Each hydrologic unit is identified by an 8-digit number.

Land-surface datum (lsd) is a datum plane that is approximately at land surface at each ground-water observation well.

Light-attenuation coefficient, also known as the extinction coefficient, is a measure of water clarity. Light is attenuated according to the Lambert-Beer equation

$$I = I_o e^{-\lambda L} \quad ,$$

where *Io* is the source light intensity, *I* is the light intensity at length *L* (in meters) from the source, λ is the light-attenuation coefficient, and *e* is the base of the natural logarithm. The light attenuation coefficient is defined as

$$\lambda = -\frac{1}{L}\log_e \frac{I}{I_o} \quad .$$

Lipid is any one of a family of compounds that are insoluble in water and that make up one of the principal components of living cells. Lipids include fats, oils, waxes, and steroids. Many environmental contaminants such as organochlorine pesticides are lipophilic.

Low tide is the minimum height reached by each falling tide. The high-low and low-low tides are the higher and lower of the two low tides, respectively, of each tidal day. *See NOAA web site: http://www.co-ops.nos.noaa.gov/tideglos.html*

Macrophytes are the macroscopic plants in the aquatic environment. The most common macrophytes are the rooted vascular plants that are usually arranged in zones in aquatic ecosystems and restricted in the area by the extent of illumination through the water and sediment deposition along the shoreline.

Measuring point (MP) is an arbitrary permanent reference point from which the distance to water surface in a well is measured to obtain water level.

Membrane filter is a thin microporous material of specific pore size used to filter bacteria, algae, and other very small particles from water.

Metamorphic stage refers to the stage of development that an organism exhibits during its transformation from an immature form to an adult form. This developmental process exists for most insects, and the degree of difference from the immature stage to the adult form varies from relatively slight to pronounced, with many intermediates. Examples of metamorphic stages of insects are egg-larva-adult or egg-nymph-adult.

Methylene blue active substances (MBAS) are apparent detergents. The determination depends on the formation of a blue color when methylene blue dye reacts with synthetic anionic detergent compounds.

Micrograms per gram (UG/G, μg/g) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the element per unit mass (gram) of material analyzed.

Micrograms per kilogram (UG/KG, μg/kg) is a unit expressing the concentration of a chemical constituent as the mass (micrograms) of the constituent per unit mass (kilogram) of the material analyzed. One microgram per kilogram is equivalent to 1 part per billion.

Micrograms per liter (UG/L, μg/L) is a unit expressing the concentration of chemical constituents in water as mass (micrograms) of constituent per unit volume (liter) of water. One thousand micrograms per liter is equivalent to 1 milligram per liter.

Microsiemens per centimeter (US/CM, μS/cm) is a unit expressing the amount of electrical conductivity of a solution as measured between opposite faces of a centimeter cube of solution at a specified temperature. Siemens is the International System of Units nomenclature. It is synonymous with mhos and is the reciprocal of resistance in ohms.

Milligrams per liter (MG/L, mg/L) is a unit for expressing the concentration of chemical constituents in water as the mass (milligrams) of constituent per unit volume (liter) of water. Concentration of suspended sediment also is expressed in mg/L and is based on the mass of dry sediment per liter of water-sediment mixture.

Miscellaneous site, or miscellaneous station, is a site where streamflow, sediment, and/or water-quality data are collected once, or more often on a random or discontinuous basis.

Most probable number (MPN) is an index of the number of coliform bacteria that, more probably than any other number, would give the results shown by the laboratory examination; it is not an actual enumeration. MPN is determined from the distribution of gas-positive cultures among multiple inoculated tubes.

Multiple-plate samplers are artificial substrates of known surface area used for obtaining benthic invertebrate samples. They consist of a series of spaced, hardboard plates on an eyebolt.

Nanograms per liter (NG/L, ng/L) is a unit expressing the concentration of chemical constituents in solution as mass (nanograms) of solute per unit volume (liter) of water. One million nanograms per liter is equivalent to 1 milligram per liter.

National Geodetic Vertical Datum of 1929 (NGVD of 1929) is a geodetic datum derived from a general adjustment of the first order level nets of the United States and Canada. It was formerly called “Sea Level Datum of 1929” or “mean sea level” in this series of reports. Although the datum was derived from the average sea level over a period of many years at 26 tide stations along the Atlantic, Gulf of Mexico, and Pacific Coasts, it does not necessarily represent local mean sea level at any particular place. *See NOAA web site: http://www.ngs.noaa.gov/faq.shtml#WhatVD29VD88*

Nekton are the consumers in the aquatic environment and consist of large free-swimming organisms that are capable of sustained, directed mobility.

Nephelometric turbidity unit (NTU) is the measurement for reporting turbidity that is based on use of a standard suspension of Formazin. Turbidity measured in NTU uses nephelometric methods that depend on passing specific light of a specific wavelength through the sample.

Open or screened interval is the length of unscreened opening or of well screen through which water enters a well, in feet below land surface.

Organic carbon (OC) is a measure of organic matter present in aqueous solution, suspension, or bottom sediments. May be reported as dissolved organic carbon (DOC), suspended organic carbon (SOC), or total organic carbon (TOC).

Organism is any living entity.

Organism count/area refers to the number of organisms collected and enumerated in a sample and adjusted to the number per area habitat, usually square meter (m^2), acre, or hectare. Periphyton, benthic organisms, and macrophytes are expressed in these terms.

Organism count/volume refers to the number of organisms collected and enumerated in a sample and adjusted to the number per sample volume, usually milliliter (mL) or liter (L). Numbers of planktonic organisms can be expressed in these terms.

Total organism count is the total number of organisms collected and enumerated in any particular sample.

Organochlorine compounds are any chemicals that contain carbon and chlorine. Organochlorine compounds that are important in investigations of water, sediment, and biological quality include certain pesticides and industrial compounds.

Parameter Code is a 5-digit number used in the U.S. Geological Survey computerized data system, National Water Information System (NWIS), to uniquely identify a specific constituent or property.

Partial-record station is a site where discrete measurements of one or more hydrologic parameters are obtained over a period of time without continuous data being recorded or computed. A common example is a crest-stage gage partial-record station at which only peak stages and flows are recorded.

Particle size is the diameter, in millimeters (mm), of a particle determined by sieve or sedimentation methods. The sedimentation method utilizes the principle of Stokes Law to calculate sediment particle sizes. Sedimentation methods (pipet, bottom-withdrawal tube, visual-accumulation tube, Sedigraph) determine fall diameter of particles in either distilled water (chemically dispersed) or in native water (the river water at the time and point of sampling).

Particle-size classification used in this report agrees with the recommendation made by the American Geophysical Union Subcommittee on Sediment Terminology. The classification is as follows:

Classification	Size (mm)			Method of analysis
Clay	0.00024	-	0.004	Sedimentation
Silt	0.004	-	0.062	Sedimentation
Sand	0.062	-	2.0	Sedimentation/sieve
Gravel	2.0	-	64.0	Sieve

The particle-size distributions given in this report are not necessarily representative of all particles in transport in the stream. Most of the organic matter is removed, and the sample is subjected to mechanical and chemical dispersion before analysis in distilled water. Chemical dispersion is not used for native water analysis.

Percent composition or **percent of total** is a unit for expressing the ratio of a particular part of a sample or population to the total sample or population, in terms of types, numbers, weight, or volume.

Periodic station is a site where stage, discharge, sediment, chemical, or other hydrologic measurements are made one or more times during a year, but at a frequency insufficient to develop a daily record.

Periphyton is the assemblage of microorganisms attached to and living upon submerged solid surfaces. While primarily consisting of algae, they also include bacteria, fungi, protozoa, rotifers, and other small organisms. Periphyton are useful indicators of water quality.

Pesticides are chemical compounds used to control undesirable organisms. Major categories of pesticides include insecticides, miticides, fungicides, herbicides, and rodenticides.

pH of water is the negative logarithm of the hydrogen-ion activity. Solutions with pH less than 7 are termed “acidic,” and solutions with a pH greater than 7 are termed “basic.” Solutions with a

pH of 7 are neutral. The presence and concentration of many dissolved chemical constituents found in water are, in part, influenced by the hydrogen-ion activity of water. Biological processes including growth, distribution of organisms, and toxicity of the water to organisms are also influenced, in part, by the hydrogen-ion activity of water.

Picocurie (PC, pCi) is one trillionth (1×10^{-12}) of the amount of radioactive nuclide represented by a curie (ci). A curie is the quantity of any radioactive nuclide that yields 3.7×10^{-10} radioactive disintegrations per second (dps). A picocurie yields 0.037 dps, or 2.22 dpm (disintegrations per minute).

Plankton is the community of suspended, floating, or weakly swimming organisms that live in the open water of lakes and rivers. Concentrations are expressed as a number of cells per milliliter (cells/mL of sample).

Phytoplankton is the plant part of the plankton. They are usually microscopic, and their movement is subject to the water currents. Phytoplankton growth is dependent upon solar radiation and nutrient substances. Because they are able to incorporate as well as release materials to the surrounding water, the phytoplankton have a profound effect upon the quality of the water. They are the primary food producers in the aquatic environment and are commonly known as algae.

Blue-green algae *(Cyanophyta)* are a group of phytoplankton organisms having a blue pigment, in addition to the green pigment called chlorophyll. Blue-green algae often cause nuisance conditions in water.

Diatoms are the unicellular or colonial algae having a siliceous shell. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Euglenoids (*Euglenophyta*) are a group of algae that are usually free-swimming and rarely creeping. They have the ability to grow either photosynthetically in the light or heterotrophically in the dark.

Fire algae (*Pyrrhophyta*) are a group of algae that are free-swimming unicells characterized by a red pigment spot.

Green algae have chlorophyll pigments similar in color to those of higher green plants. Some forms produce algae mats or floating “moss” in lakes. Their concentrations are expressed as number of cells per milliliter (cells/mL) of sample.

Zooplankton is the animal part of the plankton. Zooplankton are capable of extensive movements within the water column and are often large enough to be seen with the unaided eye. Zooplankton are secondary consumers feeding upon bacteria, phytoplankton, and detritus. Because they are the grazers in the aquatic environment, the zooplankton are a vital part of the aquatic food web. The zooplankton community is dominated by small crustaceans and rotifers.

Polychlorinated biphenyls (PCB’s) are industrial chemicals that are mixtures of chlorinated biphenyl compounds having various percentages of chlorine. They are similar in structure to organochlorine insecticides.

Polychlorinated naphthalenes (PCN's) are industrial chemicals that are mixtures of chlorinated naphthalene compounds. They have properties and applications similar to polychlorinated biphenyls (PCB's) and have been identified in commercial PCB preparations.

Primary productivity is a measure of the rate at which new organic matter is formed and accumulated through photosynthetic and chemosynthetic activity of producer organisms (chiefly, green plants). The rate of primary production is estimated by measuring the amount of oxygen released (oxygen method) or the amount of carbon assimilated (carbon method) by the plants.

Primary productivity (carbon method) is expressed as milligrams of carbon per area per unit time [mg C/(m^2/time)] for periphyton and macrophytes or per volume [mg C/(m^3/time)] for phytoplankton. Carbon method defines the amount of carbon dioxide consumed as measured by radioactive carbon (carbon-14). The carbon-14 method is of greater sensitivity than the oxygen light and dark bottle method and is preferred for use in unenriched waters. Unit time may be either the hour or day, depending on the incubation period.

Primary productivity (oxygen method) is expressed as milligrams of oxygen per area per unit time [mg O/(m^2/time)] for periphyton and macrophytes or per volume [mg O/(m^3/time)] for phytoplankton. Oxygen method defines production and respiration rates as estimated from changes in the measured dissolved-oxygen concentration. The oxygen light and dark bottle method is preferred if the rate of primary production is sufficient for accurate measurements to be made within 24 hours. Unit time may be either the hour or day, depending on the incubation period.

Radioisotopes are isotopic forms of an element that exhibit radioactivity. Isotopes are varieties of a chemical element that differ in atomic weight, but are very nearly alike in chemical properties. The difference arises because the atoms of the isotopic forms of an element differ in the number of neutrons in the nucleus; for example, ordinary chlorine is a mixture of isotopes having atomic weights of 35 and 37, and the natural mixture has an atomic weight of about 35.453. Many of the elements similarly exist as mixtures of isotopes, and a great many new isotopes have been produced in the operation of nuclear devices such as the cyclotron. There are 275 isotopes of the 81 stable elements, in addition to more than 800 radioactive isotopes.

Recoverable from bottom material is the amount of a given constituent that is in solution after a representative sample of bottom material has been digested by a method (usually using an acid or mixture of acids) that results in dissolution of readily soluble substances. Complete dissolution of all bottom material is not achieved by the digestion treatment and thus the determination represents less than the total amount (that is, less than 95 percent) of the constituent in the sample. To achieve comparability of analytical data, equivalent digestion procedures would be required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Recurrence interval, also referred to as return period, is the average time, usually expressed in years, between occurrences of hydrologic events of a specified type (such as exceedances of a specified high flow or non-exceedance of a specified low flow). The terms "return period" and "recurrence interval" do not imply regular cyclic occurrence. The actual times between occurrences vary randomly, with most of the times being less than the average and a few being substantially greater than the average. For example, the 100-year flood is the flow rate that is exceeded by the annual maximum peak flow at intervals whose average length is 100 years (that is, once in 100 years, on average); almost two-thirds of all exceedances of the 100-year flood occur less than 100

years after the previous exceedance, half occur less than 70 years after the previous exceedance, and about one-eighth occur more than 200 years after the previous exceedance. Similarly, the 7-day 10-year low flow ($7Q_{10}$) is the flow rate below which the annual minimum 7-day-mean flow dips at intervals whose average length is 10 years (that is, once in 10 years, on average); almost two-thirds of the non-exceedances of the $7Q_{10}$ occur less than 10 years after the previous non-exceedance, half occur less than 7 years after, and about one-eighth occur more than 20 years after the previous non-exceedance. The recurrence interval for annual events is the reciprocal of the annual probability of occurrence. Thus, the 100-year flood has a 1-percent chance of being exceeded by the maximum peak flow in any year, and there is a 10-percent chance in any year that the annual minimum 7-day-mean flow will be less than the $7Q_{10}$.

Replicate samples are a group of samples collected in a manner such that the samples are thought to be essentially identical in composition.

River mile is the distance of a point on a river measured in miles from the river's mouth along the low-water channel.

River mileage is the linear distance along the meandering path of a stream channel determined in accordance with Bulletin No. 14 (October 1968) of the Water Resources Council.

Runoff in inches (IN., in.) is the depth, in inches, to which the drainage area would be covered if all the runoff for a given time period were uniformly distributed on it.

Sea level refers to the National Geodetic Vertical Datum of 1929 (NGVD of 1929)—a geodetic datum derived from a general adjustment of the first-order level nets of the United States and Canada, formerly called Sea Level Datum of 1929. *See*: *http://www.co-ops.nos.noaa.gov/glossary/gloss_n.html#NGVD*

Sediment is solid material that is transported by, suspended in, or deposited from water. It originates mostly from disintegrated rocks; it also includes chemical and biochemical precipitates and decomposed organic material, such as humus. The quantity, characteristics, and cause of the occurrence of sediment in streams are influenced by environmental factors. Some major factors are degree of slope, length of slope, soil characteristics, land usage, and quantity and intensity of precipitation.

Bed load is the sediment that is transported in a stream by rolling, sliding, or skipping along or very close to the bed. In this report, bed load is considered to consist of particles in transit from the bed to an elevation equal to the top of the bed-load sampler nozzle (usually within 0.25 ft of the streambed).

Bed-load discharge (tons per day) is the quantity of sediment moving as bed load, reported as dry weight, that passes a cross section in a given time.

Suspended sediment is the sediment that is maintained in suspension by the upward components of turbulent currents or that exists in suspension as a colloid.

Suspended-sediment concentration is the velocity-weighted concentration of suspended sediment in the sampled zone (from the water surface to a point approximately 0.3 ft above the bed) expressed as milligrams of dry sediment per liter of water-sediment mixture (mg/L). The entire sample is used for the analysis.

Mean concentration of suspended sediment is the time-weighted concentration of

suspended sediment passing a stream section during a 24-hour day.

Suspended-sediment discharge (tons/day) is the quantity of sediment moving in suspension, reported as dry weight, that passes a cross section in a given time. It is calculated in units of tons per day as follows: concentration (mg/L) x discharge (ft^3/s) x 0.0027.

Suspended-sediment load is a term that refers to material in suspension. The term needs to be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It is not synonymous with either suspended-sediment discharge or concentration.

Total sediment discharge (tons/day) is the sum of the suspended-sediment discharge and the bed-load discharge. It is the total quantity of sediment, reported as dry weight, that passes a cross section in a given time.

Total sediment load or total load is a term that refers to the total sediment (bed load plus suspended-sediment load) that is in transport. The term needs to be qualified, such as “annual suspended-sediment load” or “sand-size suspended-sediment load,” and so on. It is not synonymous with total sediment discharge.

Seven-day 10-year low flow (7Q10, $7Q_{10}$) is the minimum flow averaged over 7 consecutive days that is expected to occur on average, once in any 10-year period. The 7Q10 has a 10-percent chance of occurring in any given year.

Sodium adsorption ratio (SAR) is the expression of relative activity of sodium ions in exchange reactions within soil and is an index of sodium or alkali hazard to the soil. Waters range in respect to sodium hazard from those which can be used for irrigation on almost all soils to those which are generally unsatisfactory for irrigation.

Solute is any substance that is dissolved in water.

Specific conductance is a measure of the ability of a water to conduct an electrical current. It is expressed in microsiemens per centimeter at 25 °C. Specific conductance is related to the type and concentration of ions in solution and can be used for approximating the dissolved-solids content of the water. Commonly, the concentration of dissolved solids (in milligrams per liter) is from 55 to 75 percent of the specific conductance (in microsiemens). This relation is not constant from stream to stream, and it may vary in the same source with changes in the composition of the water.

Stable isotope ratio (per MILL/MIL) is a unit expressing the ratio of the abundance of two radioactive isotopes. Isotope ratios are used in hydrologic studies to determine the age or source of specific waters, to evaluate mixing of different waters, as an aid in determining reaction rates, and other chemical or hydrologic processes.

Stage: See “Gage height.”

Stage-discharge relation is the relation between the water-surface elevation, termed stage (gage height), and the volume of water flowing in a channel per unit time.

Streamflow is the discharge that occurs in a natural channel. Although the term “discharge” can be applied to the flow of a canal, the word “streamflow” uniquely describes the discharge in a surface stream course. The term “streamflow” is more general than “runoff” as streamflow may be applied to discharge whether or not it is affected by diversion or regulation.

Substrate is the physical surface upon which an organism lives.

Artificial substrate is a device which is purposely placed in a stream or lake for colonization of organisms. The artificial substrate simplifies the community structure by standardizing the substrate from which each sample is taken. Examples of artificial substrates are basket samplers (made of wire cages filled with clean streamside rocks) and multiplate samplers (made of hardboard) for benthic organism collection, and plexiglass strips for periphyton collection.

Natural substrate refers to any naturally occurring immersed or submersed solid surface, such as a rock or tree, upon which an organism lives.

Surface area of a lake or impoundment is that area encompassed by the boundary of the lake or impoundment as shown on USGS topographic maps, or on other available maps or photographs. The computed surface areas reflect the water levels of the lakes or impoundments at the times when the information for the maps or photographs was obtained.

Surficial bed material is the top 0.1 to 0.2 ft of the bed material that is sampled using U.S. Series Bed-Material Samplers.

Suspended (as used in tables of chemical analyses) refers to the amount (concentration) of undissolved material in a water-sediment mixture. It is associated with the material retained on a 0.45-micrometer filter.

Suspended, recoverable is the amount of a given constituent that is in solution after the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all the particulate matter is not achieved by the digestion treatment and thus the determination represents something less than the “total” amount (that is, less than 95 percent) of the constituent present in the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Determinations of “suspended, recoverable” constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total recoverable concentrations of the constituent.

Suspended, total is the total amount of a given constituent in the part of a representative suspended-sediment sample that is retained on a 0.45-micrometer membrane filter. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. Knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to determine when the results should be reported as “suspended, total.”

Determinations of “suspended, total” constituents are made either by analyzing portions of the material collected on the filter or, more commonly, by difference, based on determinations of (1) dissolved and (2) total concentrations of the constituent.

Synoptic Studies are short-term investigations of specific water-quality conditions during selected seasonal or hydrologic periods to provide improved spatial resolution for critical water-

quality conditions. For the period and conditions sampled, they assess the spatial distribution of selected water-quality conditions in relation to causative factors, such as land use and contaminant sources.

Taxonomy is the division of biology concerned with the classification and naming of organisms. The classification of organisms is based upon a hierarchial scheme beginning with Kingdom and ending with Species at the base. The higher the classification level, the fewer features the organisms have in common. For example, the taxonomy of a particular mayfly, *Hexagenia limbata*, is the following:

Kingdom	Animal
Phylum	Arthropoda
Class	Insecta
Order	Ephemeroptera
Family	Ephemeridae
Genus	*Hexagenia*
Species	*Hexagenia limbata*

Time-weighted average is computed by multiplying the number of days in the sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the total number of days. A time-weighted average represents the composition of water that would be contained in a vessel or reservoir that had received equal quantities of water from the stream each day for the year.

Tons per acre-foot is the dry mass of dissolved solids in 1 acre-foot of water. It is computed by multiplying the concentration of the constituent, in milligrams per liter, by 0.00136.

Tons per day (T/DAY, tons/d) is the rate representing a mass of 1 ton of a constituent in streamflow passing a cross section in 1 day. It is equivalent to 2,000 pounds per day, or 0.9072 metric tons per day.

Total is the total amount of a given constituent in a representative suspended-sediment sample, regardless of the constituent's physical or chemical form. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent present in both the dissolved and suspended phases of the sample. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total." (Note that the word "total" does double duty here, indicating both that the sample consists of a suspended-sediment mixture and that the analytical method determined all of the constituent in the sample.)

Total discharge is the quantity of a given constituent, measured as dry mass or volume, that passes a stream cross section per unit of time. When referring to constituents other than water, this term needs to be qualified, such as "total sediment discharge," "total chloride discharge," and so on.

Total in bottom material is the total amount of a given constituent in a representative sample of bottom material. This term is used only when the analytical procedure assures measurement of at least 95 percent of the constituent determined. A knowledge of the expected form of the constituent in the sample, as well as the analytical methodology used, is required to judge when the results should be reported as "total in bottom material."

Total length (fish) is the straight-line distance from the anterior point of a fish specimen's snout, with the mouth closed, to the posterior end of the caudal (tail) fin, with the lobes of the caudal fin squeezed together.

Total load refers to all of a constituent in transport. When referring to sediment, it includes suspended load plus bed load.

Total recoverable is the amount of a given constituent that is in solution after a representative suspended-sediment sample has been digested by a method (usually using a dilute acid solution) that results in dissolution of only readily soluble substances. Complete dissolution of all particulate matter is not achieved by the digestion treatment, and thus the determination represents something less than the "total" amount (that is, less than 95 percent) of the constituent present in the dissolved and suspended phases of the sample. To achieve comparability of analytical data, equivalent digestion procedures are required of all laboratories performing such analyses because different digestion procedures are likely to produce different analytical results.

Turbidity is a measurement of the collective optical properties of a water sample that cause light to be scattered and absorbed rather than transmitted in straight lines; the higher the intensity of scattered light, the higher the turbidity. Turbidity is expressed in nephelometric turbidity units (NTU) or Formazin turbidity units (FTU) depending on the method and equipment used.

Volatile organic compounds (VOC's) are organic compounds that can be isolated from the water phase of a sample by purging the water sample with inert gas, such as helium, and subsequently analyzed by gas chromatography. Many VOC's are manmade chemicals that are used and produced in the manufacture of paints, adhesives, petroleum products, pharmaceuticals, and refrigerants. They are often components of fuels, solvents, hydraulic fluids, paint thinners, and dry cleaning agents commonly used in urban settings. VOC contamination of drinking-water supplies is a human health concern because many are toxic and are known or suspected human carcinogens (U.S. Environmental Protection Agency, 1996).

Water level is the water-surface elevation or stage of the free surface of a body of water above or below any datum (see "Gage height"), or the surface of water standing in a well, usually indicative of the position of the water table or other potentiometric surface.

Water table is the surface of a ground-water body at which the water is at atmospheric pressure.

Water-table aquifer is an unconfined aquifer within which is found the water table.

Water year in U.S. Geological Survey reports dealing with surface-water supply is the 12-month period October 1 through September 30. The water year is designated by the calendar year in which it ends and which includes 9 of the 12 months. Thus, the year ending September 30, 1999, is called the "1999 water year."

WDR is used as an abbreviation for "Water-Data Report" in the REVISED RECORDS paragraph to refer to State annual hydrologic-data reports. (WRD was used as an abbreviation for "Water-Resources Data" in reports published prior to 1976.)

Weighted average is used in this report to indicate discharge-weighted average. It is computed by multiplying the discharge for a sampling period by the concentrations of individual constituents for the corresponding period and dividing the sum of the products by the sum of the discharges. A discharge-weighted average approximates the composition of water that would be

found in a reservoir containing all the water passing a given location during the water year after thorough mixing in the reservoir.

Well is an excavation (pit, hole, tunnel), generally cylindrical in form and often walled in, drilled, dug, driven, bored, or jetted into the ground to such a depth as to penetrate water-yielding geologic material and allow the water to flow or to be pumped to the surface.

Wet weight refers to the weight of animal tissue or other substance including its contained water.

WSP is used as an abbreviation for “Water-Supply Paper” in reference to previously published reports

TECHNIQUES OF WATER-RESOURCES INVESTIGATIONS OF THE U.S. GEOLOGICAL SURVEY

The U.S.G.S. publishes a series of manuals describing procedures for planning and conducting specialized work in water-resources investigations. The material is grouped under major subject headings called books and is further divided into sections and chapters. For example, section A of book 3 (Applications of Hydraulics) pertains to surface water. The chapter, the unit of publication, is limited to a narrow field of subject matter. This format permits flexibility in revision and publication as the need arises.

The reports listed below are for sale by the U.S.G.S., Information Services, Box 25286, Federal Center, Denver, Colorado 80225 (authorized agent of the Superintendent of Documents, Government Printing Office). Prepayment is required. Remittance should be made in the form of a check or money order payable to the "U.S. Geological Survey." Prices are not included because they are subject to change. Current prices can be obtained by writing to the above address. When ordering or inquiring about prices for any of these publications, please give the title, book number, chapter number, and mention the "U.S. Geological Survey Techniques of Water-Resources Investigations."

Book 1. Collection of Water Data by Direct Measurement

Section D. Water Quality

1-D1. *Water temperature—influential factors, field measurement, and data presentation,* by H. H. Stevens, Jr., J.F. Ficke, and G. F. Smoot: USGS–TWRI book 1, chap. D1. 1975. 65 pages.

1-D2. *Guidelines for collection and field analysis of ground-water samples for selected unstable constituents,* by W.W. Wood: USGS–TWRI book 1, chap. D2. 1976. 24 pages.

Book 2. Collection of Environmental Data

Section D. Surface Geophysical Methods

2-D1. *Application of surface geophysics to ground-water investigations,* by A.A. R. Zohdy, G.P. Eaton, and D.R. Mabey: USGS–TWRI book 2, chap. D1. 1974. 116 pages.

2-D2. *Application of seismic-refraction techniques to hydrologic studies,* by F.P. Haeni: USGS–TWRI book 2, chap. D2. 1988. 86 pages.

Section E. Subsurface Geophysical Methods

2-E1. *Application of borehole geophysics to water-resources investigations,* by W.S. Keys and L.M. MacCary: USGS–TWRI book 2, chap. E1. 1971. 126 pages.

2-E2. *Borehole geophysics applied to ground-water investigations,* by W.S. Keys: USGS–TWRI book 2, chap. E2. 1990. 150 pages.

Section F. Drilling and Sampling Methods

2-F1. *Application of drilling, coring, and sampling techniques to test holes and wells,* by Eugene Shuter and W.E. Teasdale: USGS–TWRI book 2, chap. F1. 1989. 97 pages.

Book 3. Applications of Hydraulics

Section A. Surface-Water Techniques

3-A1. *General field and office procedures for indirect discharge measurements,* by M.A. Benson and Tate Dalrymple: USGS–TWRI book 3, chap. A1. 1967. 30 pages.

3-A2. *Measurement of peak discharge by the slope-area method,* by Tate Dalrymple and M.A. Benson: USGS–TWRI book 3, chap. A2. 1967. 12 pages.

3-A3. *Measurement of peak discharge at culverts by indirect methods,* by G.L. Bodhaine: USGS–TWRI book 3, chap. A3. 1968. 60 pages.

3-A4. *Measurement of peak discharge at width contractions by indirect methods,* by H.F. Matthai: USGS-TWRI book 3, chap. A4. 1967. 44 pages.

3-A5. *Measurement of peak discharge at dams by indirect methods,* by Harry Hulsing: USGS–TWRI book 3. chap. A5. 1967. 29 pages.

3-A6. *General procedure for gaging streams,* by R.W. Carter and Jacob Davidian: USGS–TWRI book 3, chap. A6. 1968. 13 pages.

3-A7. *Stage measurement at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A7. 1968. 28 pages.

3-A8. *Discharge measurements at gaging stations,* by T.J. Buchanan and W.P. Somers: USGS–TWRI book 3, chap. A8. 1969. 65 pages.

3-A9. *Measurement of time of travel in streams by dye tracing,* by F.A. Kilpatrick and J.F. Wilson, Jr.: USGS–TWRI book 3, chap. A9. 1989. 27 pages.

3-Al0. *Discharge ratings at gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A10. 1984. 59 pages.

3-A11. *Measurement of discharge by the moving-boat method,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 3, chap. A11. 1969. 22 pages.

3-A12. *Fluorometric procedures for dye tracing,* Revised, by J.F. Wilson, Jr., E.D. Cobb, and F.A. Kilpatrick: USGS–TWRI book 3, chap. A12. 1986. 34 pages.

3-A13. *Computation of continuous records of streamflow,* by E.J. Kennedy: USGS–TWRI book 3, chap. A13. 1983. 53 pages.

3-A14. *Use of flumes in measuring discharge,* by F.A. Kilpatrick and V.R. Schneider: USGS–TWRI book 3, chap. A14. 1983. 46 pages.

3-A15. *Computation of water-surface profiles in open channels,* by Jacob Davidian: USGS–TWRI book 3, chap. A15. 1984. 48 pages.

3-A16. *Measurement of discharge using tracers,* by F.A. Kilpatrick and E.D. Cobb: USGS–TWRI book 3, chap. A16. 1985. 52 pages.

3-A17. *Acoustic velocity meter systems,* by Antonius Laenen: USGS–TWRI book 3, chap. A17. 1985. 38 pages.

3-A18. *Determination of stream reaeration coefficients by use of tracers,* by F.A. Kilpatrick, R.E. Rathbun, Nobuhiro Yotsukura, G.W. Parker, and L.L. DeLong: USGS–TWRI book 3, chap. A18. 1989. 52 pages.

3-A19. *Levels at streamflow gaging stations,* by E.J. Kennedy: USGS–TWRI book 3, chap. A19. 1990. 31 pages.

3-A20. *Simulation of soluable waste transport and buildup in surface waters using tracers,* by F.A. Kilpatrick: USGS–TWRI book 3, chap. A20. 1993. 38 pages.

3-A21 *Stream-gaging cableways,* by C. Russell Wagner: USGS–TWRI book 3, chap. A21. 1995. 56 pages.

Section B. Ground-Water Techniques

3-B1. *Aquifer-test design, observation, and data analysis,* by R.W. Stallman: USGS–TWRI book 3, chap. B1. 1971. 26 pages.

3-B2. *Introduction to ground-water hydraulics, a programed text for self-instruction,* by G.D. Bennett: USGS–TWRI book 3, chap. B2. 1976. 172 pages.

3-B3. *Type curves for selected problems of flow to wells in confined aquifers,* by J.E. Reed: USGS–TWRI book 3, chap. B3. 1980. 106 pages.

3-B4. *Regression modeling of ground-water flow,* by R.L. Cooley and R.L. Naff: USGS–TWRI book 3, chap. B4. 1990. 232 pages.

3-B4. *Supplement 1. Regression modeling of ground-water flow --Modifications to the computer code for nonlinear regression solution of steady-state ground-water flow problems,* by R.L. Cooley: USGS–TWRI book 3, chap. B4. 1993. 8 pages.

3-B5. *Definition of boundary and initial conditions in the analysis of saturated ground-water flow systems—An introduction,* by O.L. Franke, T.E. Reilly, and G.D. Bennett: USGS–TWRI book 3, chap. B5. 1987. 15 pages.

3-B6. *The principle of superposition and its application in ground-water hydraulics,* by T.E. Reilly, O.L. Franke, and G.D. Bennett: USGS–TWRI book 3, chap. B6. 1987. 28 pages.

3-B7. *Analytical solutions for one-, two-, and three-dimensional solute transport in ground-water systems with uniform flow,* by E.J. Wexler: USGS–TWRI book 3, chap. B7. 1992. 190 pages.

Section C. Sedimentation and Erosion Techniques

3-C1. *Fluvial sediment concepts,* by H.P. Guy: USGS–TWRI book 3, chap. C1. 1970. 55 pages.

3-C2. *Field methods for measurement of fluvial sediment,* by T.K. Edwards and G.D. Glysson: USGS–TWRI book 3, chap. C2. 1999. 89 pages.

3-C3. *Computation of fluvial-sediment discharge,* by George Porterfield: USGS–TWRI book 3, chap. C3. 1972. 66 pages.

Book 4. Hydrologic Analysis and Interpretation

Section A. Statistical Analysis

4-A1. *Some statistical tools in hydrology,* by H.C. Riggs: USGS–TWRI book 4, chap. A1. 1968. 39 pages.

4-A2. *Frequency curves,* by H.C. Riggs: USGS–TWRI book 4, chap. A2. 1968. 15 pages.

Section B. Surface Water

4-B1. *Low-flow investigations,* by H.C. Riggs: USGS–TWRI book 4, chap. B1. 1972. 18 pages.

4-B2. *Storage analyses for water supply,* by H.C. Riggs and C.H. Hardison: USGS–TWRI book 4, chap. B2. 1973. 20 pages.

4-B3. *Regional analyses of streamflow characteristics,* by H.C. Riggs: USGS–TWRI book 4, chap. B3. 1973. 15 pages.

Section D. Interrelated Phases of the Hydrologic Cycle

4-D1. *Computation of rate and volume of stream depletion by wells,* by C.T. Jenkins: USGS–TWRI book 4, chap. D1. 1970. 17 pages.

Book 5. Laboratory Analysis

Section A. Water Analysis

5-A1. *Methods for determination of inorganic substances in water and fluvial sediments,* by M.J. Fishman and L.C. Friedman, editors: USGS–TWRI book 5, chap. A1. 1989. 545 pages.

5-A2. *Determination of minor elements in water by emission spectroscopy,* by P.R. Barnett and E.C. Mallory, Jr.: USGS–TWRI book 5, chap. A2. 1971. 31 pages.

5-A3. *Methods for the determination of organic substances in water and fluvial sediments,* edited by R.L. Wershaw, M.J. Fishman, R.R. Grabbe, and L.E. Lowe: USGS–TWRI book 5, chap. A3. 1987. 80 pages.

5-A4. *Methods for collection and analysis of aquatic biological and microbiological samples,* by L.J. Britton and P.E. Greeson, editors: USGS–TWRI book 5, chap. A4. 1989. 363 pages.

5-A5. *Methods for determination of radioactive substances in water and fluvial sediments,* by L.L. Thatcher, V.J. Janzer, and K.W. Edwards: USGS–TWRI book 5, chap. A5. 1977. 95 pages.

5-A6. *Quality assurance practices for the chemical and biological analyses of water and fluvial sediments,* by L.C. Friedman and D.E. Erdmann: USGS–TWRI book 5, chap. A6. 1982. 181 pages.

Section C. Sediment Analysis

5-C1. *Laboratory theory and methods for sediment analysis,* by H.P. Guy: USGS–TWRI book 5, chap. C1. 1969. 58 pages.

Book 6. Modeling Techniques

Section A. Ground Water

6-A1. *A modular three-dimensional finite-difference ground-water flow model,* by M.G. McDonald and A.W. Harbaugh: USGS–TWRI book 6, chap. A1. 1988. 586 pages.

6-A2. *Documentation of a computer program to simulate aquifer-system compaction using the modular finite-difference ground-water flow model,* by S.A. Leake and D.E. Prudic: USGS–TWRI book 6, chap. A2. 1991. 68 pages.

6-A3. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 1: Model Description and User's Manual,* by L.J. Torak: USGS–TWRI book 6, chap. A3. 1993. 136 pages.

6-A4. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 2: Derivation of finite-element equations and comparisons with analytical solutions,* by R.L. Cooley: USGS–TWRI book 6, chap. A4. 1992. 108 pages.

6-A5. *A modular finite-element model (MODFE) for areal and axisymmetric ground-water-flow problems, Part 3: Design philosophy and programming details,* by L.J. Torak: USGS–TWRI book 6, chap. A5, 1993. 243 pages.

6-A6. A coupled surface-water and ground-water flow model (MODBRANCH) for simulation of stream-aquifer interaction, by Eric D. Swain and Eliezer J. Wexler: USGS–TWRI book 6, chap. A5,1996. 125 pages.

Book 7. Automated Data Processing and Computations

Section C. Computer Programs

7-C1. *Finite difference model for aquifer simulation in two dimensions with results of numerical experiments,* by P.C. Trescott, G.F. Pinder, and S.P. Larson: USGS–TWRI book 7, chap. C1. 1976. 116 pages.

7-C2. *Computer model of two-dimensional solute transport and dispersion in ground water,* by L.F. Konikow and J.D. Bredehoeft: USGS–TWRI book 7, chap. C2. 1978. 90 pages.

7-C3. *A model for simulation of flow in singular and interconnected channels,* by R.W. Schaffranek, R.A. Baltzer, and D.E. Goldberg: USGS–TWRI book 7, chap. C3. 1981. 110 pages.

Book 8. Instrumentation

Section A. Instruments for Measurement of Water Level

8-A1. *Methods of measuring water levels in deep wells,* by M.S. Garber and F.C. Koopman: USGS–TWRI book 8, chap. A1. 1968. 23 pages.

8-A2. *Installation and service manual for U.S. Geological Survey manometers,* by J.D. Craig: USGS–TWRI book 8, chap. A2. 1983. 57 pages.

Section B. Instruments for Measurement of Discharge

8-B2. *Calibration and maintenance of vertical-axis type current meters,* by G.F. Smoot and C.E. Novak: USGS–TWRI book 8, chap. B2. 1968. 15 pages.

Book 9. Handbooks for Water-Resources Investigations

Section A. National Field Manual for the Collection of Water-Quality Data

9-A1. *National Field Manual for the Collection of Water-Quality Data: Preparations for Water Sampling*, by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A1. 1998. 47 p.

9-A2. *National Field Manual for the Collection of Water-Quality Data: Selection of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A2. 1998. 94 p.

9-A3. *National Field Manual for the Collection of Water-Quality Data: Cleaning of Equipment for Water Sampling*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A3. 1998. 75 p.

9-A4. *National Field Manual for the Collection of Water-Quality Data: Collection of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A4. 1999. 156 p.

9-A5. *National Field Manual for the Collection of Water-Quality Data: Processing of Water Samples*, edited by F.D. Wilde, D.B. Radtke, Jacob Gibs, and R.T. Iwatsubo: USGS–TWRI book 9, chap. A5. 1999, 149 p.

9-A6. *National Field Manual for the Collection of Water-Quality Data: Field Measurements*, edited by F.D. Wilde and D.B. Radtke: USGS–TWRI book 9, chap. A6. 1998. Variously paginated.

9-A7. *National Field Manual for the Collection of Water-Quality Data: Biological Indicators*, edited by D.N. Myers and F.D. Wilde: USGS–TWRI book 9, chap. A7. 1997 and 1999. Variously paginated.

9-A8. *National Field Manual for the Collection of Water-Quality Data: Bottom-material samples*, by D.B. Radtke: USGS–TWRI book 9, chap. A8. 1998. 48 pages.

9-A9. *National Field Manual for the Collection of Water-Quality Data: Safety in Field Activities*, by S.L. Lane and R.G. Fay: USGS–TWRI book 9, chap. A9. 1998. 60 pages.

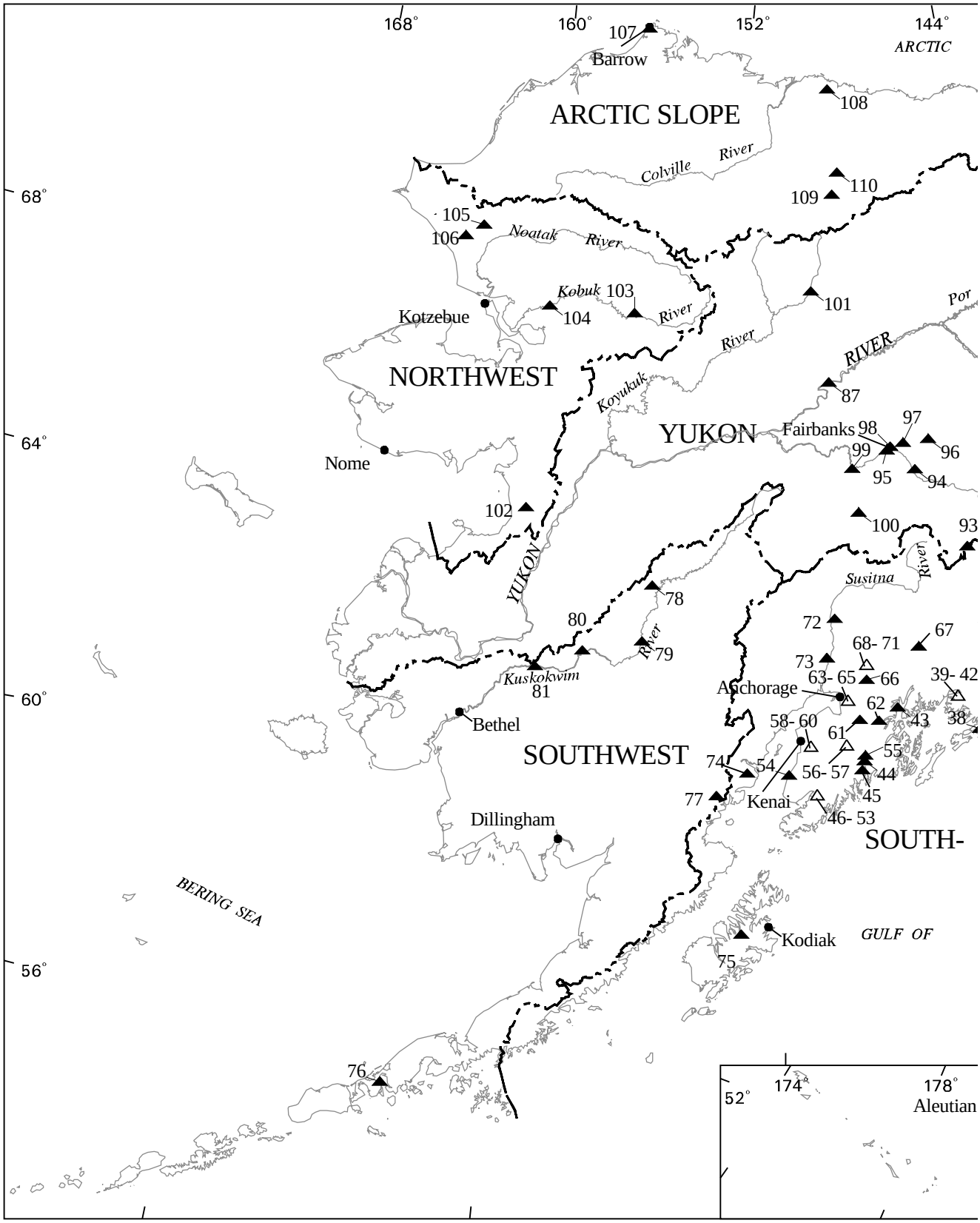
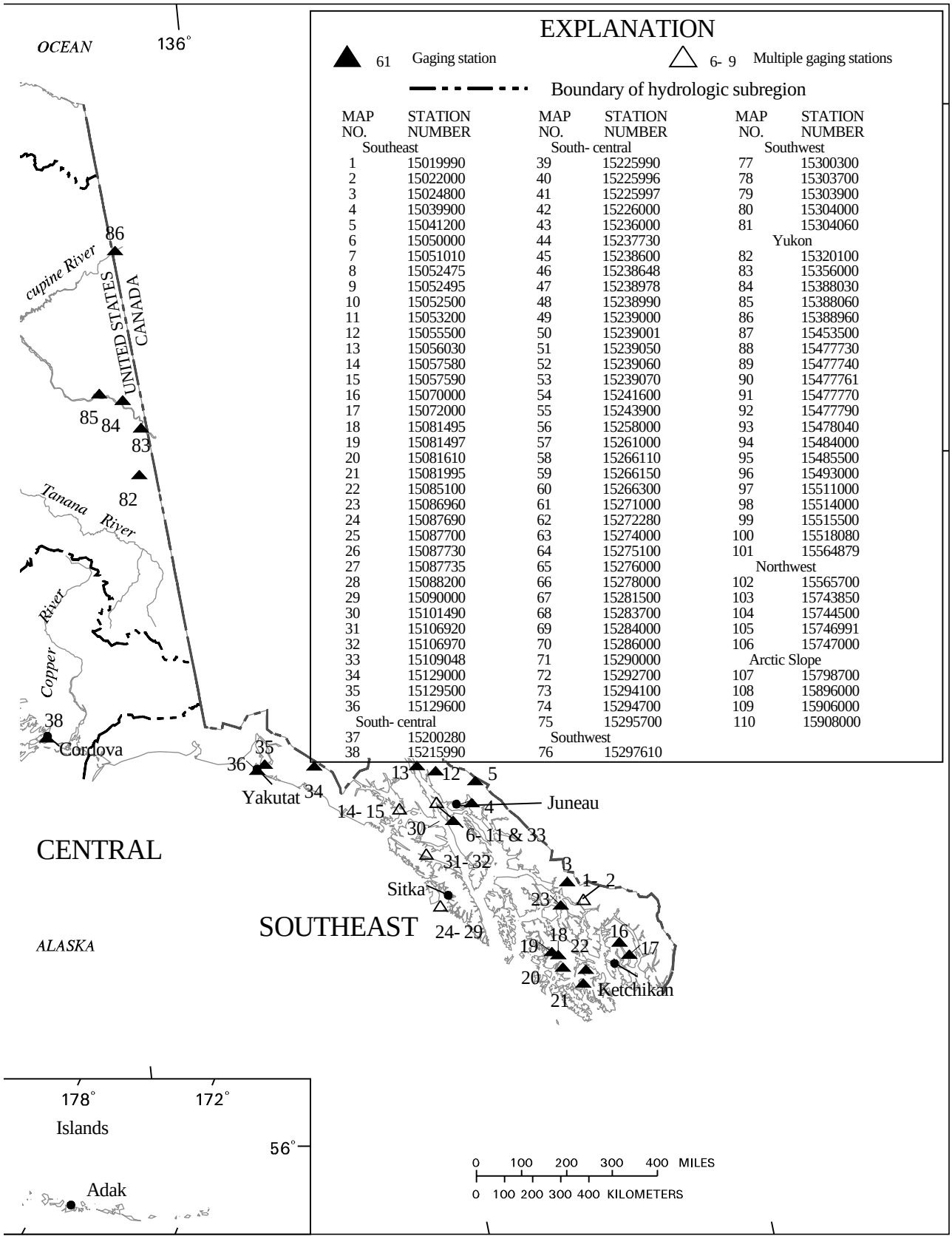


Figure 1. Locations of gaging stations.



EXPLANATION

▲ 61 Gaging station

△ 6- 9 Multiple gaging stations

Boundary of hydrologic subregion

MAP NO.	STATION NUMBER	MAP NO.	STATION NUMBER	MAP NO.	STATION NUMBER
Southeast		South- central		Southwest	
1	15019990	39	15225990	77	15300300
2	15022000	40	15225996	78	15303700
3	15024800	41	15225997	79	15303900
4	15039900	42	15226000	80	15304000
5	15041200	43	15236000	81	15304060
6	15050000	44	15237730	Yukon	
7	15051010	45	15238600	82	15320100
8	15052475	46	15238648	83	15356000
9	15052495	47	15238978	84	15388030
10	15052500	48	15238990	85	15388060
11	15053200	49	15239000	86	15388960
12	15055500	50	15239001	87	15453500
13	15056030	51	15239050	88	15477730
14	15057580	52	15239060	89	15477740
15	15057590	53	15239070	90	15477761
16	15070000	54	15241600	91	15477770
17	15072000	55	15243900	92	15477790
18	15081495	56	15258000	93	15478040
19	15081497	57	15261000	94	15484000
20	15081610	58	15266110	95	15485500
21	15081995	59	15266150	96	15493000
22	15085100	60	15266300	97	15511000
23	15086960	61	15271000	98	15514000
24	15087690	62	15272280	99	15515500
25	15087700	63	15274000	100	15518080
26	15087730	64	15275100	101	15564879
27	15087735	65	15276000	Northwest	
28	15088200	66	15278000	102	15565700
29	15090000	67	15281500	103	15743850
30	15101490	68	15283700	104	15744500
31	15106920	69	15284000	105	15746991
32	15106970	70	15286000	106	15747000
33	15109048	71	15290000	Arctic Slope	
34	15129000	72	15292700	107	15798700
35	15129500	73	15294100	108	15896000
36	15129600	74	15294700	109	15906000
South- central		75	15295700	110	15908000
37	15200280	Southwest			
38	15215990	76	15297610		

15019990 TYEE LAKE OUTLET NEAR WRANGELL

LOCATION.--Lat 56°12′00″, long 131°30′24″, in SE¼ SW¼ sec. 28, T. 65 S., R. 90 E. (Bradfield Canal A-5 quad), Hydrologic Unit 19010101, in Tongass National Forest, on left bank at outlet of Tyee Lake, 1.5 mi south of Bradfield Canal and 37 mi southeast of Wrangell, Alaska.

DRAINAGE AREA.--14.7 mi^2.

PERIOD OF RECORD.--October 1979 to September 1981 and June 1992 to current year. Records for November 1922 to September 1927 and August 1963 to October 1969, published as Tyee Creek at Mouth near Wrangell (station 15020100) are not equivalent owing to inflow between sites.

GAGE.--Water-stage recorder. Elevation of gage is 1,370 ft above sea level from topographic map. Prior to June 9, 1992, at site 500 ft downstream at datum 13.66 ft lower.

REMARKS.--Records fair above 10 ft^3/s and poor below. Water for power generation is diverted from Tyee Lake and discharged into Bradfield Canal. Diversion to hydropower plant began February 1984, and is not included in the discharge records.

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	161	134	1.4	15	e.00	e.00	e.00	e.00	55	337	338	144
2	141	148	.69	11	e.00	e.00	e.00	e.00	86	307	281	108
3	143	136	.21	7.3	e.00	e.00	e.00	e.00	117	286	235	79
4	144	111	e.00	5.1	e.00	e.00	e.00	e.00	151	272	204	77
5	130	90	e.00	3.5	e.00	e.00	e.00	e.00	185	275	191	152
6	153	71	e.00	2.7	e.00	e.00	e.00	e.00	225	280	182	158
7	212	61	e.00	2.0	e.00	e.00	e.00	e.00	241	299	162	235
8	234	50	e.00	1.3	e.00	e.00	e.00	e.00	245	289	143	229
9	223	47	e.00	.61	e.00	e.00	e.00	e.00	252	276	143	260
10	201	44	e.00	.15	e.00	e.00	e.00	e.00	252	273	128	228
11	178	44	e.00	e.00	e.00	e.00	e.00	e.00	256	260	108	218
12	159	41	e.00	e.00	e.00	e.00	e.00	e.00	249	236	89	222
13	174	33	e.00	e.00	e.00	e.00	e.00	e.00	266	215	73	207
14	183	24	e.00	e.00	e.00	e.00	e.00	e.00	329	203	60	316
15	161	23	e.00	e.00	e.00	e.00	e.00	e.00	363	191	59	297
16	170	81	e.00	e.00	e.00	e.00	e.00	e.00	340	191	88	394
17	236	108	e.00	e.00	e.00	e.00	e.00	e.00	346	183	130	519
18	226	92	e.00	e.00	e.00	e.00	e.00	e.00	348	174	131	470
19	260	111	e.00	e.00	e.00	e.00	e.00	e.00	329	213	115	379
20	348	116	e.00	e.00	e.00	e.00	e.00	e.00	315	282	164	312
21	510	93	e.00	e.00	e.00	e.00	e.00	e.00	318	275	330	256
22	665	68	e.00	e.00	e.00	e.00	e.00	e.00	297	254	566	206
23	656	46	e.00	e.00	e.00	e.00	e.00	e.00	267	255	460	158
24	581	32	e.00	e.00	e.00	e.00	e.00	e.00	252	346	350	119
25	459	22	e.00	e.00	e.00	e.00	e.00	e.00	263	525	355	88
26	377	15	.94	e.00	e.00	e.00	e.00	e.00	286	487	355	65
27	308	9.7	13	e.00	e.00	e.00	e.00	e.00	320	484	308	47
28	252	6.5	31	e.00	e.00	e.00	e.00	.27	357	488	293	60
29	205	4.3	35	e.00	e.00	e.00	e.00	5.6	420	453	265	124
30	190	2.6	28	e.00	---	e.00	e.00	14	381	404	221	151
31	158	---	21	e.00	---	e.00	---	29	---	389	184	---
TOTAL	8198	1864.1	131.24	48.66	0.00	0.00	0.00	48.87	8111	9402	6711	6278
MEAN	264	62.1	4.23	1.57	.000	.000	.000	1.58	270	303	216	209
MAX	665	148	35	15	.00	.00	.00	29	420	525	566	519
MIN	130	2.6	.00	.00	.00	.00	.00	.00	55	174	59	47
AC-FT	16260	3700	260	97	.00	.00	.00	97	16090	18650	13310	12450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY) #

MEAN	169	49.4	9.29	.54	.034	.000	3.97	79.0	255	175	109	157
MAX	264	108	38.4	1.86	.28	.000	24.8	247	367	305	216	242
(WY)	2000	1993	1998	1994	1994	1993	1993	1993	1999	1999	2000	1999
MIN	102	5.10	.000	.000	.000	.000	.000	1.58	176	55.2	28.3	41.5
(WY)	1995	1997	1995	1993	1993	1993	1994	2000	1994	1998	1994	1993

\# Record for 1980 & 1981 water years, prior to diversion of 1984, not included. See Period of Record
e Estimated

15019990 TYEE LAKE OUTLET NEAR WRANGELL--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000#	
ANNUAL TOTAL	44140.49		40792.87			
ANNUAL MEAN	121		111		82.9	
HIGHEST ANNUAL MEAN					111	2000
LOWEST ANNUAL MEAN					56.5	1995
HIGHEST DAILY MEAN	665	Oct 22	665	Oct 22	710	Oct 27 1993
LOWEST DAILY MEAN	a.00	Jan 1	b.00	Dec 4	c.00	Dec 30 1992
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Dec 4	.00	Dec 30 1992
INSTANTANEOUS PEAK FLOW			716	Oct 22	d975	Oct 26 1993
INSTANTANEOUS PEAK STAGE			26.01	Oct 22	28.62	Oct 26 1993
INSTANTANEOUS LOW FLOW					.00	Dec 30 1992
ANNUAL RUNOFF (AC-FT)	87550		80910		60090	
10 PERCENT EXCEEDS	350		323		272	
50 PERCENT EXCEEDS	23		18		26	
90 PERCENT EXCEEDS	.00		.00		.00	

PRIOR TO DIVERSION OF 1984

SUMMARY STATISTICS	WATER YEARS 1980 - 1981	
ANNUAL MEAN	179	
HIGHEST ANNUAL MEAN	213	1981
LOWEST ANNUAL MEAN	146	1980
HIGHEST DAILY MEAN	1690	Oct 7 1980
LOWEST DAILY MEAN	f 1.4	Apr 2 1980
ANNUAL SEVEN-DAY MINIMUM	2.0	Mar 31 1980
INSTANTANEOUS PEAK FLOW	1910	Oct 7 1980
INSTANTANEOUS PEAK STAGE	12.72	Oct 7 1980
ANNUAL RUNOFF (AC-FT)	130000	
10 PERCENT EXCEEDS	457	
50 PERCENT EXCEEDS	86	
90 PERCENT EXCEEDS	11	

\# Record for 1980 & 1981 water years, prior to diversion of 1984, not included. See PERIOD OF RECORD
a Jan. 1 to May 25, Dec. 6 to Dec. 25
b Dec. 4 to Dec. 25, Jan. 11 to May 27
c No flow many days during winter months most years
d From rating curve extended above 400 ft^3/s
f Apr. 2 to Apr. 3, 1980

15022000 HARDING RIVER NEAR WRANGELL

LOCATION.--Lat 56°12′48″, long 131°38′12″, in SW¼ SW¼ sec. 22, T. 65 S., R. 89 E. (Bradfield Canal A-5 quad), Hydrologic Unit 19010101, in Tongass National Forest, on right bank 1 mi upstream from mouth on north shore of Bradfield Canal, 4 mi downstream from Fall Lake, and 34 mi southeast of Wrangell.

DRAINAGE AREA.--67.4 mi^2.

PERIOD OF RECORD.--August 1951 to current year.

REVISED RECORDS.--WSP 1640: Drainage area.

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

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 21	2030	*9120	*12.45	Aug 21	2100	8600	12.13
Dec 26	0200	4230	9.15	Sep 5	0230	6270	10.61
July 25	0330	5070	9.77	Sep 16	1945	6920	11.05

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	372	615	220	323	e180	89	1060	683	1020	1260	1370	544
2	351	1360	238	246	e160	123	562	513	1160	1190	1020	423
3	644	736	222	224	e145	216	591	537	1240	1230	977	340
4	576	494	319	206	e135	147	432	547	1390	1290	1110	1570
5	431	400	265	190	e112	108	350	508	1500	1480	1200	3370
6	1040	365	260	215	e104	90	329	509	1740	1580	1110	1510
7	1520	436	223	269	e106	78	297	496	1480	1680	919	2150
8	1550	377	197	305	e120	71	295	500	1230	1320	1000	1040
9	959	428	197	213	e104	63	232	561	1270	1370	1440	2030
10	704	409	196	171	e95	63	197	649	1180	1460	935	858
11	605	527	226	143	e88	62	174	815	1300	1190	732	1440
12	561	435	199	e134	e85	61	206	843	1160	1010	671	1470
13	1290	355	168	e124	e82	68	282	700	1540	953	628	1110
14	1010	362	147	e110	e80	123	229	750	1970	1090	602	3250
15	572	437	141	e103	e78	144	197	708	1640	1020	1040	1110
16	1220	1360	181	e95	e76	147	185	745	1290	1100	1410	4250
17	2380	908	158	e90	e75	189	182	820	1940	989	1510	3500
18	1120	546	133	e86	e104	218	179	1160	1660	1160	1150	2540
19	2820	906	129	e80	e140	189	220	1100	1370	2600	916	1080
20	3390	816	197	e75	e190	161	255	802	1670	3160	3050	757
21	5480	530	285	e72	e210	357	470	670	1910	1660	5640	513
22	3490	468	360	e70	e194	256	433	1520	1380	1410	5140	398
23	3710	390	416	e68	e160	190	353	1070	1020	1690	1700	349
24	2300	428	1010	e66	e144	180	288	722	1080	2990	903	335
25	1400	477	2400	e65	130	215	245	573	1410	3660	1500	334
26	1280	329	3230	e100	114	468	252	537	1680	2180	1840	359
27	1120	258	1990	e150	101	435	318	611	1940	1970	1050	315
28	758	222	1510	e270	83	284	377	864	2080	2280	1550	1040
29	633	212	919	e258	79	181	385	968	2700	2390	989	2360
30	1050	201	547	e240	---	236	454	743	1510	1790	879	1400
31	637	---	420	e250	---	700	---	806	---	1880	764	---
TOTAL	44973	15787	17103	5011	3474	5912	10029	23030	45460	52032	44745	41745
MEAN	1451	526	552	162	120	191	334	743	1515	1678	1443	1392
MAX	5480	1360	3230	323	210	700	1060	1520	2700	3660	5640	4250
MIN	351	201	129	65	75	61	174	496	1020	953	602	315
MED	1050	436	226	143	106	161	292	708	1440	1460	1050	1100
AC-FT	89200	31310	33920	9940	6890	11730	19890	45680	90170	103200	88750	82800
CFSM	21.5	7.81	8.19	2.40	1.78	2.83	4.96	11.0	22.5	24.9	21.4	20.6
IN.	24.82	8.71	9.44	2.77	1.92	3.26	5.54	12.71	25.09	28.72	24.70	23.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY) #

MEAN	1089	494	341	247	240	205	364	918	1380	1339	1127	1118
MAX	2152	1252	1065	819	655	510	733	1357	1896	1878	1656	1811
(WY)	1962	1970	1990	1981	1954	1986	1994	1956	1996	1972	1956	1994
MIN	610	118	102	50.6	46.7	54.8	90.0	624	960	861	601	507
(WY)	1970	1986	1984	1969	1969	1969	1954	1977	1981	1995	1993	1965

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

15022000 HARDING RIVER NEAR WRANGELL--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000 #	
ANNUAL TOTAL	304391		309301			
ANNUAL MEAN	834		845		742	
HIGHEST ANNUAL MEAN					921	1992
LOWEST ANNUAL MEAN					558	1995
HIGHEST DAILY MEAN	5970	May 24	5640	Aug 21	11400	Oct 14 1961
LOWEST DAILY MEAN	73	Mar 10	61	Mar 12	a35	Jan 23 1969
ANNUAL SEVEN-DAY MINIMUM	79	Mar 5	67	Mar 7	35	Jan 23 1969
INSTANTANEOUS PEAK FLOW			9120	Oct 21	b15300	Oct 26 1993
INSTANTANEOUS PEAK STAGE			12.45	Oct 21	c16.22	Oct 14 1961
INSTANTANEOUS LOW FLOW			d60	Mar 9	f	
ANNUAL RUNOFF (AC-FT)	603800		613500		537900	
ANNUAL RUNOFF (CFSM)	12.4		12.5		11.0	
ANNUAL RUNOFF (INCHES)	168.00		170.71		149.68	
10 PERCENT EXCEEDS	1780		1850		1600	
50 PERCENT EXCEEDS	587		545		543	
90 PERCENT EXCEEDS	95		107		110	

\# See Period of Record; partial years used in monthly statistics
a From Jan. 23 to Feb. 11, 1969
b From rating curve extended above 5,000 ft^3/s on basis of slope-area measurement at gage height,13.90 ft
c At site then in use
d Mar. 9, 11, and 12
f Not determined, see lowest daily mean

15024800 STIKINE RIVER NEAR WRANGELL
(International gaging station)

LOCATION.--Lat 56°42′29″, long 132°07′49″, in SE¼ SE¼ sec. 35, T. 59 S., R. 84 E. (Petersburg C-1 quad), Hydrologic Unit 19010201, on right bank about 10 mi upstream from mouth near Point Rothsay, 11 mi west of Alaska-British Columbia boundary, and 18 mi northeast of Wrangell.

DRAINAGE AREA.--19,920 mi^2, approximately.

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

REVISED RECORDS.--WDR AK-78-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 25 ft above sea level, from topographic map.

REMARKS.--Records good, except for estimated daily discharges that are tidally affected, Nov. 6 to 11, Nov. 20 to Dec. 13, Apr. 15 to 22, and May 2 to 7, which are fair; and estimated daily discharges during periods of ice effect, Dec. 15 to 25 and Jan. 4 to Apr. 10; or missing gage height record, Dec. 26 to 29 and Jun. 8 to 23, which are poor. GOES satellite telemetry at station.

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	35600	35800	e13000	25500	e12200	e8200	e10100	25000	59800	151000	140000	86800
2	33200	48300	e12800	20500	e12000	e8000	e10800	e25000	68600	140000	126000	80900
3	34600	42500	e12600	e18000	e11400	e8000	e11000	e25800	76900	134000	117000	75100
4	34500	34000	e12900	e17000	e10900	e7900	e11300	e27200	85300	131000	119000	76200
5	32000	29500	e12800	e16400	e10500	e7900	e11800	e27900	90300	144000	131000	118000
6	33000	e26000	e12600	e15800	e10200	e7800	e12000	e28000	98900	164000	134000	126000
7	40700	e24100	e12800	e15100	e10100	e7700	e12300	e28800	e110000	172000	122000	128000
8	44800	e23000	e12200	e15300	e9880	e7400	e12700	30700	e115000	167000	111000	111000
9	39600	e22500	e11800	e15000	e9700	e7100	e13000	33100	e109000	165000	111000	97500
10	34200	e22100	e11600	e14600	e9600	e6800	e13300	35900	e114000	170000	110000	84100
11	31800	e22000	e11700	e14300	e9400	e6700	13600	39600	e120000	162000	100000	80100
12	30800	21300	e11700	e14000	e9200	e6600	13700	42900	e130000	147000	95300	85300
13	35200	19900	e11500	e13800	e9100	e6500	14100	45000	e134000	135000	90100	80600
14	37400	19300	e11400	e13400	e9000	e6400	14000	46000	e135000	129000	87800	108000
15	30500	18100	e11100	e13200	e9000	e6400	e13600	46700	e130000	127000	90700	114000
16	33300	20000	e10900	e12900	e8900	e6500	e13300	47100	e116000	125000	96300	124000
17	47000	22900	e10500	e12700	e9000	e6600	e13200	48200	e117000	124000	98500	188000
18	41200	21100	e10300	e12500	e9200	e6800	e13200	53100	e130000	123000	97700	204000
19	48300	20000	e11000	e12300	e9400	e7200	e13700	57300	e122000	135000	90600	166000
20	77200	e20000	e11800	e12200	e9800	e7300	e14100	57700	e115000	156000	94900	130000
21	88400	e20100	e12500	e12000	e10000	e7500	e18200	52700	e112000	159000	126000	105000
22	128000	e19200	e13500	e12000	e9800	e7900	e20200	54400	e110000	143000	192000	89400
23	114000	e17700	e15000	e11900	e9800	e8200	19500	53500	e108000	140000	185000	81400
24	107000	e17000	e20000	e11800	e9500	e8500	18000	49100	106000	156000	150000	81200
25	84600	e18100	e34000	e11600	e9400	e8800	16700	45400	112000	191000	130000	82800
26	72800	e17200	e55000	e11600	e9200	e8900	16500	43500	127000	187000	127000	85600
27	64800	e15400	e75000	e11700	e8800	e8600	17200	43700	146000	166000	113000	83200
28	54100	e13300	e85000	e12000	e8700	e8300	18300	47600	164000	156000	105000	81900
29	45900	e12900	e55000	e12000	e8500	e8000	19000	52100	178000	150000	104000	101000
30	44300	e13400	42400	e12400	---	e8600	21100	52600	171000	138000	97300	100000
31	39200	---	32700	e12400	---	e9400	---	54200	---	138000	94700	---
TOTAL	1618000	676700	677100	435900	282180	236500	439500	1319800	3510800	4625000	3586900	3155100
MEAN	52190	22560	21840	14060	9730	7629	14650	42570	117000	149200	115700	105200
MAX	128000	48300	85000	25500	12200	9400	21100	57700	178000	191000	192000	204000
MIN	30500	12900	10300	11600	8500	6400	10100	25000	59800	123000	87800	75100
MED	40700	20000	12600	12900	9500	7800	13600	45400	115000	147000	111000	93400
AC-FT	3209000	1342000	1343000	864600	559700	469100	871700	2618000	6964000	9174000	7115000	6258000
CFSM	2.62	1.13	1.10	.71	.49	.38	.74	2.14	5.87	7.49	5.81	5.28
IN.	3.02	1.26	1.26	.81	.53	.44	.82	2.46	6.56	8.64	6.70	5.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2000, BY WATER YEAR (WY) #

MEAN	58330	25020	14010	11490	9382	10340	17010	68380	135200	134500	107400	80110
MAX	113300	58280	25780	39450	19080	42340	31960	119100	199900	163800	134200	128600
(WY)	1987	1979	1990	1981	1977	1992	1992	1993	1992	1985	1977	1981
MIN	30590	10010	5593	5958	5111	4719	9070	32260	103400	109100	76770	50760
(WY)	1986	1986	1997	1978	1999	1978	1982	1982	1978	1983	1995	1986

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1976 - 2000#	
ANNUAL TOTAL	19625600		20563480			
ANNUAL MEAN	53770		56180		56100	
HIGHEST ANNUAL MEAN					72870	1981
LOWEST ANNUAL MEAN					42100	1978
HIGHEST DAILY MEAN	220000	Jun 17	204000	Sep 18	324000	Sep 23 1994
LOWEST DAILY MEAN	a4000	Mar 12	b6400	Mar 14	4000	Feb 12 1988
ANNUAL SEVEN-DAY MINIMUM	4090	Mar 8	6530	Mar 11	4090	Mar 8 1999
INSTANTANEOUS PEAK FLOW			213000	Sep 18	351000	Sep 23 1994
INSTANTANEOUS PEAK STAGE			24.94	Sep 18	30.60	Sep 23 1994
ANNUAL RUNOFF (AC-FT)	38930000		40790000		40640000	
ANNUAL RUNOFF (CFSM)	2.70		2.82		2.82	
ANNUAL RUNOFF (INCHES)	36.65		38.40		38.26	
10 PERCENT EXCEEDS	138000		134000		137000	
50 PERCENT EXCEEDS	28900		32400		32800	
90 PERCENT EXCEEDS	5200		9000		7200	

\# See Period of Record; partial years used in monthly statistics
a Mar. 12 to 14
b Mar. 14 to 15
e Estimated

15039900 DOROTHY LAKE OUTLET NEAR JUNEAU

LOCATION.--Lat 58°14′56″, long 133°58′54″, in NE¼ NW¼ sec. 9, T. 42 S., R. 70 E.(Taku River A-6 quad), Hydrologic Unit 19010301, City and Borough of Juneau, in Tongass National Forest, on right bank 3 mi upstream from mouth at Taku Inlet, and 16.4 mi east of Juneau.

DRAINAGE AREA.--11.0 mi^2.

PERIOD OF RECORD.--October 1986 to current year.

GAGE.--Water-stage recorder. Datum of gage is 2,410.78 ft above sea level.

REMARKS.--Records fair, except for discharges under 50 ft^3/s and estimated discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec. 28	0300	474	11.39	Sep. 7	0615	487	11.43
Jul 24	1715	*871	*12.50	Sep. 17	1145	524	11.55
Aug. 22	0815	651	11.93				

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	96	71	22	122	29	11	26	18	75	267	323	139
2	97	73	22	108	27	12	24	19	82	231	278	120
3	104	62	22	84	24	14	23	19	92	211	241	105
4	100	52	24	72	22	14	21	19	102	210	227	187
5	94	46	23	64	21	13	20	19	112	227	252	391
6	117	40	25	60	19	12	20	19	133	264	260	395
7	132	39	24	56	18	11	21	20	165	283	238	464
8	139	35	22	54	17	10	26	21	177	276	225	378
9	125	34	22	48	15	9.6	24	22	178	280	237	322
10	111	32	22	42	15	9.2	20	25	169	288	217	251
11	100	31	23	36	14	8.7	19	29	173	274	198	276
12	92	29	21	e30	13	8.5	18	33	170	251	181	267
13	87	26	19	e27	12	8.4	16	36	179	227	165	249
14	82	26	18	e24	12	8.2	14	39	204	208	166	306
15	70	23	17	e22	11	8.2	13	40	220	205	290	272
16	85	31	18	e21	11	8.8	12	42	220	237	337	351
17	123	37	17	e19	11	10	12	45	266	256	290	502
18	144	35	16	e18	11	11	13	57	274	287	244	453
19	281	35	17	e17	13	12	13	65	274	406	245	347
20	321	36	21	e16	13	13	14	67	275	575	375	265
21	299	33	22	e15	13	14	16	64	283	508	480	202
22	298	33	28	e14	12	15	17	72	258	469	629	158
23	261	30	40	e14	12	15	16	74	220	656	551	135
24	233	33	63	e13	12	17	15	68	198	816	408	123
25	184	37	139	16	12	18	14	61	197	803	311	120
26	151	34	235	17	12	21	13	57	210	605	266	123
27	124	27	363	25	12	25	13	57	239	467	230	122
28	103	24	444	32	12	25	13	62	274	409	210	162
29	88	26	331	34	11	23	14	66	339	400	184	246
30	77	23	242	31	---	23	16	67	318	359	170	226
31	64	---	182	30	---	25	---	69	---	341	158	---
TOTAL	4382	1093	2504	1181	436	433.6	516	1371	6076	11296	8586	7657
MEAN	141	36.4	80.8	38.1	15.0	14.0	17.2	44.2	203	364	277	255
MAX	321	73	444	122	29	25	26	74	339	816	629	502
MIN	64	23	16	13	11	8.2	12	18	75	205	158	105
AC-FT	8690	2170	4970	2340	865	860	1020	2720	12050	22410	17030	15190
CFSM	12.9	3.31	7.34	3.46	1.37	1.27	1.56	4.02	18.4	33.1	25.2	23.2
IN.	14.82	3.70	8.47	3.99	1.47	1.47	1.75	4.64	20.55	38.20	29.04	25.89

e Estimated

15039900 DOROTHY LAKE OUTLET NEAR JUNEAU--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2000, BY WATER YEAR (WY)

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	162	49.3	36.6	21.1	20.8	18.1	20.3	91.1	216	269	256	265
MAX	243	88.7	80.8	38.1	40.8	59.2	36.9	140	267	364	342	387
(WY)	1988	1994	2000	2000	1993	1992	1994	1993	1992	2000	1990	1991
MIN	90.9	21.2	16.9	9.25	11.3	4.65	10.6	44.2	181	210	194	177
(WY)	1993	1996	1995	1997	1998	1989	1989	2000	1996	1993	1995	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1987 - 2000	
ANNUAL TOTAL	43303.9		45531.6			
ANNUAL MEAN	119		124		119	
HIGHEST ANNUAL MEAN					141	1990
LOWEST ANNUAL MEAN					97.6	1996
HIGHEST DAILY MEAN	671	Sep 23	816	Jul 24	915	Sep 11 1995
LOWEST DAILY MEAN	4.3	Mar 5	a8.2	Mar 14	4.2	Mar 13 1989
ANNUAL SEVEN-DAY MINIMUM	5.0	Mar 3	8.6	Mar 10	4.2	Mar 10 1989
INSTANTANEOUS PEAK FLOW			b871	Jul 24	c990	Sep 10 1995
INSTANTANEOUS PEAK STAGE			b12.50	Jul 24	13.05	Sep 10 1995
ANNUAL RUNOFF (AC-FT)	85890		90310		86390	
ANNUAL RUNOFF (CFSM)	10.8		11.3		10.8	
ANNUAL RUNOFF (INCHES)	146.45		153.98		147.29	
10 PERCENT EXCEEDS	297		308		285	
50 PERCENT EXCEEDS	39		57		57	
90 PERCENT EXCEEDS	13		13		12	

a Mar. 14 to Mar 15
b July 24 and July 25
c From rating curve extended above 342 ft^3/s

15041200 TAKU RIVER NEAR JUNEAU
(International gaging station)

LOCATION.--Lat 58°32′19″, long 133°42′00″, in NE¼ NW¼ sec. 33, T. 38 S., R. 71 E. (Taku River C-6 quad), Hydrologic Unit 19010301, City and Borough of Juneau, in Tongass National Forest, on left bank, 1.5 mi upstream from Wright River, and 31 mi northeast of Juneau.

DRAINAGE AREA.--6,600 mi^2, approximately.

WATER-DISCHARGE RECORDS

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

REVISED RECORD.--WDR AK-98-1, 1987-1997.

GAGE.--Water-stage recorder. Elevation of gage is 50 ft above sea level, from topographic map.

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 50,000 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun 15	1300	55,700	39.96	July 26	1345	*a104,000	*43.77

REVISIONS.--The maximum discharges for some water years have been revised, as shown in the following table. They supersede figures published in reports for 1989 - 1990, and 1992-95.

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug 17, 1989	0430	a110,000	44.13	Jul 28, 1993	0415	a90,400	42.89
Jul 20, 1990	0300	a79,800	42.10	Jul 30, 1994	2015	a106,000	43.88
Aug 20, 1992	1400	a84,500	42.46	Jul 26, 1995	1630	a95,500	43.23

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	8410	8050	2500	e9500	e3240	e2150	2390	4790	19800	32600	31000	16600
2	8170	9380	2790	e8000	e3180	e2120	2380	5200	22400	29400	30000	14000
3	7960	7950	2590	e6700	e3000	e2100	2470	5590	25200	28800	28600	12200
4	7690	6780	2650	e6300	e2850	e2120	2580	5930	27400	30000	31000	12800
5	7330	6060	2560	e5800	e2780	e2110	2590	6320	28200	34200	35500	19300
6	7140	5590	2430	e5300	e2720	e2080	2570	6730	31600	38100	36500	23000
7	7310	5320	2480	e5100	e2680	e2010	2540	7590	33100	38800	32100	28400
8	7880	4990	2380	e4800	e2620	e1950	2510	8690	33800	37000	28900	23100
9	7550	4930	2340	e4500	e2580	e1880	2540	9600	34100	37000	26800	18500
10	6830	4910	2380	e4350	e2560	e1800	2410	10800	35100	37200	27200	16000
11	6580	4610	2270	e4150	e2500	e1750	2350	12100	39700	34700	26000	16800
12	6290	4420	2250	e3950	e2450	e1700	2410	13300	43000	31300	24700	18100
13	6140	4100	e2240	e3800	e2400	e1680	2450	13600	44800	28700	23900	17100
14	6300	3990	e2220	e3700	e2380	e1680	2340	14100	46500	26800	24700	20600
15	5890	3940	e2200	e3600	e2370	e1700	2290	13900	52600	26000	27600	22900
16	6980	3890	e2160	e3500	e2350	e1720	2370	13400	38600	26500	28200	22400
17	10800	3800	e2130	e3450	e2360	e1750	2410	13300	34500	27700	26500	33900
18	10800	3580	e2100	e3350	e2380	e1800	2620	14700	33000	29500	24400	39100
19	18400	3520	e2300	e3300	e2480	e1880	2950	16600	30900	31700	23500	32700
20	24800	3540	e2900	e3250	e2580	e1920	3050	16500	30400	34000	24500	24500
21	18300	3470	3860	e3150	e2600	e1970	3340	15400	29700	33100	25700	19000
22	16500	3230	4440	e3150	e2600	e2000	3530	14700	26600	30500	32000	15800
23	14800	3010	4720	e3100	e2580	e2020	3410	14800	24200	36200	36200	15000
24	14400	2930	7010	e3100	e2500	2050	3180	14100	24100	50900	29200	16900
25	12300	3140	11700	e3060	e2490	2110	3120	13100	28100	74600	23000	19500
26	10900	3030	19400	e3050	e2420	2390	3200	12400	31900	93100	21400	21200
27	9950	3050	26800	e3050	e2360	2460	3310	12700	36800	46100	20400	21100
28	9040	3190	31200	e3100	e2300	2430	3540	14400	40900	36800	18300	18800
29	8360	2580	21800	e3200	e2200	2300	4100	16000	43100	35900	17100	21200
30	7640	2800	15200	e3240	---	2220	4420	17600	39400	34900	17300	17900
31	7000	---	e11000	e3300	---	2340	---	18100	---	32000	17500	---
TOTAL	308440	133780	205000	130900	74510	62190	85370	376040	1009500	1144100	819700	618400
MEAN	9950	4459	6613	4223	2569	2006	2846	12130	33650	36910	26440	20610
MAX	24800	9380	31200	9500	3240	2460	4420	18100	52600	93100	36500	39100
MIN	5890	2580	2100	3050	2200	1680	2290	4790	19800	26000	17100	12200
AC-FT	611800	265400	406600	259600	147800	123400	169300	745900	2002000	2269000	1626000	1227000
CFSM	1.51	.68	1.00	.64	.39	.30	.43	1.84	5.10	5.59	4.01	3.12
IN.	1.74	.75	1.16	.74	.42	.35	.48	2.12	5.69	6.45	4.62	3.49

a Result of Tulsequah River glacier dam breakout
e Estimated

15041200 TAKU RIVER NEAR JUNEAU--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY)#

MEAN	11430	4634	3459	2206	1957	2717	4556	20960	34460	32170	25910	19800
MAX	17250	8633	6613	4223	3682	10500	6815	33800	49280	41080	32450	26550
(WY)	1992	1994	2000	2000	1992	1992	1992	1993	1992	1992	1989	1994
MIN	6265	2488	1256	1125	1041	1359	2846	10810	23170	25040	18610	11180
(WY)	1997	1997	1997	1988	1999	1991	2000	1999	1995	1996	1995	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000#	
ANNUAL TOTAL	4356695		4967930			
ANNUAL MEAN	11940		13570		13750	
HIGHEST ANNUAL MEAN					16820	1992
LOWEST ANNUAL MEAN					10800	1996
HIGHEST DAILY MEAN	56400	Aug 20	93100	Jul 26	93100	Jul 26 2000
LOWEST DAILY MEAN	800	Mar 14	a1680	Mar 13	710	Feb 12 1988
ANNUAL SEVEN-DAY MINIMUM	823	Mar 9	1710	Mar 11	721	Feb 8 1988
INSTANTANEOUS PEAK FLOW			b104000	Jul 26	br110000	Aug 17 1989
INSTANTANEOUS PEAK STAGE			43.77	Jul 26	44.13	Aug 17 1989
INSTANTANEOUS LOW FLOW			c		710	Feb 12 1989
ANNUAL RUNOFF (AC-FT)	8642000		9854000		9961000	
ANNUAL RUNOFF (CFSM)	1.81		2.06		2.08	
ANNUAL RUNOFF (INCHES)	24.56		28.00		28.31	
10 PERCENT EXCEEDS	30100		33100		33500	
50 PERCENT EXCEEDS	6830		7000		7410	
90 PERCENT EXCEEDS	1070		2300		1600	

\# See Period of Record; partial years used in monthly statistics
a From Mar. 13 to Mar. 14
b Result of Tulsequah River glacier dam breakout
c Not determined; see lowest daily mean
r Revised

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1999 to current year

INSTRUMENTATION.--Electronic water-temperature recorder set for 15-minute recording interval.

REMARKS.- Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on May 15. The May 15 temperature cross section found no variation between mean stream temperature and sensor temperature. The outburst peak of the lake dammed by Tulsequah Glacier occurred on July 26. As a result, the temperature cross section showed a variation of 3.0°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 12.5°C, July 14, 1999; minimum, 0.0°C, many days during most winters.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 12.°C, June 24, 26, July 4-5, and August 5; minimum, 0.0°C, many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	GAGE HEIGHT (FEET) (00065)	FEET PER SECOND (00061)	PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	INDICA-TOR CODE (99111)	DUCT-ANCE (US/CM) (00095)	(STAND-ARD UNITS) (00400)	ATURE AIR (DEG C) (00020)	ATURE WATER (DEG C) (00010)
OCT												
11...	1200	9	9	30.55	6220	20	3011	--	163	8.1	3.5	4.5
APR												
05...	0930	9	9	29.01	2570	20	3054	--	219	7.5	6.0	2.0
MAY												
15...	1500	9	9	32.78	14600	20	3054	10	167	7.6	--	6.5
JUN												
16...	1100	9	9	37.58	39200	20	3054	--	127	7.6	10.0	7.5
JUL												
25...	1115	9	9	41.63	71500	20	3054	--	82	7.7	13.0	6.0
25...	2015	9	9	42.39	81400	20	3054	--	90	7.6	--	6.5
26...	1500	9	9	43.74	106000	20	3054	--	95	7.4	--	6.5
27...	1500	9	9	37.46	41800	20	3054	--	55	7.6	--	8.0
AUG												
29...	1200	9	9	33.26	16000	20	3054	--	123	7.6	--	7.0

15041200 TAKU RIVER NEAR JUNEAU--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE (MG/L AS SO4) (00946)
OCT												
11...	--	--	--	87	26.3	5.20	--	2.4	.1	53	44	15
APR												
05...	758	12.5	91	120	34.2	7.60	.1	4.2	.1	113	93	18
MAY												
15...	760	11.6	95	93	27.5	6.00	--	2.1	.7	46	38	12
JUN												
16...	--	--	--	69	21.1	3.90	--	1.5	<.7	68	56	10
JUL												
25...	762	11.3	91	49	13.7	1.80	--	.8	.8	38	31	9.7
25...	761	11.8	96	47	17.5	2.70	--	1.0	.9	40	33	12
26...	760	11.5	94	49	--	2.40	--	.7	1.2	42	34	12
27...	760	10.3	87	55	17.5	2.70	--	1.0	.9	52	42	10
AUG												
29...	763	10.8	89	65	19.8	3.90	--	1.5	.9	65	53	10

DATE	CHLOR-IDE WATER UNFLTRD (MG/L) (99220)	FLUO-RIDE, TOTAL (MG/L AS F) (00951)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	NITRO-GEN, NO2+NO3 TOTAL (MG/L AS N) (00630)	NITRO-GEN, AMMONIA TOTAL (MG/L AS N) (00610)	ALUM-PHOS-PHORUS TOTAL (MG/L AS P) (00665)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)
OCT												
11...	1.5	.1	<5.9	--	1.21	.030	622	23	1	E.5	44.6	34
APR												
05...	3.7	.1	--	.2	<.20	.030	340	24	1	.4	45.6	41
MAY												
15...	.62	.1	--	.3	.03	--	1040	35	1	.5	47.2	30
JUN												
16...	.47	.2	--	.1	.17	.327	3650	40	3	.6	85.9	26
JUL												
25...	.59	.1	--	M	.04	.610	8640	51	7	.5	197	20
25...	.21	M	--	<.2	.09	.761	8390	39	8	.5	210	26
26...	.43	M	--	<.2	.04	.525	7250	37	6	.4	179	26
27...	.39	.1	--	<.1	.03	.232	3260	39	3	.5	86.5	26
AUG												
29...	.57	.1	--	.1	.01	.060	971	32	1	.5	44.6	27

DATE	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)
OCT											
11...	.1	M	1	<1.0	--	--	950	20	E1	<1	35
APR											
05...	.2	<.1	2	<1.0	3	<1	910	20	E1	<1	55
MAY											
15...	.2	.1	3	<1.0	6	2	1920	30	2	<1	72
JUN											
16...	.3	<.1	8	<1.0	13	1	6290	10	5	<1	195
JUL											
25...	.4	<.1	14	1.0	29	<1	13400	<10	12	<1	415
25...	.4	<.1	14	1.0	30	<1	13300	10	12	<1	420
26...	.4	<.1	13	<1.0	26	<1	12000	10	9	<1	361
27...	5.7	<.1	6	<1.0	8	<1	5330	10	4	<1	164
AUG											
29...	.1	<.1	2	<1.0	4	<1	1510	20	1	M	54

15041200 TAKU RIVER NEAR JUNEAU--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	CARBON, ORGANIC TOTAL (MG/L AS C) (00680)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)
OCT											
11...	15	3	1	--	--	<1	<1	11	5	.92	--
APR											
05...	41	3	1	<1	<1.0	--	<1	--	8	1.2	--
MAY											
15...	6	8	2	1	<1.0	--	<1	12	4	--	--
JUN											
16...	7	15	1	<1	<1.0	<1	<1	23	<4	2.9	2.0
JUL											
25...	9	21	1	<1	<1.0	M	<1	62	<4	<1.0	<1.0
25...	8	21	1	<1	<1.0	M	M	61	<4	<1.0	<1.0
26...	12	21	1	<1	<1.0	M	<1	51	<4	<1.0	<1.0
27...	8	9	1	<1	<1.0	<1	<1	21	<4	<1.0	<1.0
AUG											
29...	9	3	1	<1	<1.0	<1	<1	7	<4	.91	1.1

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	---	---	---	3.0	2.5	3.0	1.5	1.0	1.0	---	---	---
2	---	---	---	3.0	2.5	3.0	1.5	1.0	1.0	.0	.0	.0
3	6.5	5.5	6.0	2.5	2.5	2.5	1.5	.5	1.0	.0	.0	.0
4	6.0	5.5	6.0	2.5	1.5	2.0	1.5	.5	1.0	.0	.0	.0
5	6.0	5.5	5.5	1.5	1.5	1.5	1.5	.5	1.0	.0	.0	.0
6	6.0	5.5	5.5	1.5	1.0	1.5	1.5	.0	1.0	.0	.0	.0
7	6.0	5.5	5.5	1.5	1.0	1.5	1.5	1.0	1.0	.0	.0	.0
8	5.5	5.0	5.0	2.0	1.5	1.5	1.5	1.0	1.0	.5	.0	.0
9	5.5	5.0	5.0	2.5	2.0	2.0	1.5	1.0	1.5	.5	.0	.0
10	5.0	4.5	5.0	2.0	2.0	2.0	1.5	1.0	1.0	---	---	---
11	5.0	4.5	4.5	2.0	2.0	2.0	1.5	1.0	1.5	---	---	---
12	4.5	4.0	4.5	2.5	2.0	2.0	1.0	1.0	1.0	---	---	---
13	5.0	4.5	4.5	2.0	1.5	2.0	1.0	.0	.5	---	---	---
14	5.0	4.5	5.0	2.0	1.5	1.5	1.0	.5	1.0	---	---	---
15	4.5	4.0	4.5	1.5	1.5	1.5	1.0	.0	.5	.0	.0	.0
16	4.5	4.0	4.5	1.5	1.0	1.5	1.5	.5	1.0	.5	.0	.0
17	5.5	4.5	5.5	1.5	1.0	1.0	1.5	.5	1.0	.0	.0	.0
18	6.5	5.5	5.5	1.5	1.0	1.0	1.0	.5	.5	.0	.0	.0
19	6.5	6.5	6.5	1.5	1.0	1.5	1.5	.5	1.0	.0	.0	.0
20	6.5	4.5	5.0	1.5	1.0	1.5	1.5	.5	1.0	.0	.0	.0
21	4.5	3.0	3.5	1.5	1.0	1.5	1.5	1.0	1.0	.0	.0	.0
22	4.0	3.5	3.5	1.5	1.0	1.5	1.0	.5	1.0	.0	.0	.0
23	4.5	4.0	4.0	1.5	.5	1.0	1.0	.5	.5	.5	.0	.0
24	4.5	4.0	4.5	2.0	1.0	1.5	1.0	.0	.5	.5	.0	.0
25	4.5	4.0	4.0	1.5	.5	1.0	.5	.0	.0	.5	.0	.0
26	4.5	4.0	4.0	1.5	.5	1.0	1.5	.5	1.0	.5	.0	.0
27	4.0	3.0	3.5	1.5	.5	1.0	1.5	1.5	1.5	.5	.0	.0
28	3.5	3.0	3.0	1.5	.0	.5	1.5	.5	1.5	.5	.0	.0
29	3.5	3.0	3.0	1.5	.5	1.0	1.0	.5	1.0	.5	.0	.0
30	3.0	2.5	2.5	2.0	1.0	1.0	1.0	.0	.5	.5	.0	.0
31	2.5	2.5	2.5	---	---	---	---	---	---	.5	.0	.0
MONTH	---	---	---	3.0	.0	1.6	---	---	---	---	---	---

15041200 TAKU RIVER NEAR JUNEAU--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.0	1.0	.5	.5	---	---	---	7.0	5.0	6.0
2	.5	.0	.0	1.0	.5	.5	---	---	---	7.5	5.5	6.5
3	.5	.0	.0	1.0	.5	.5	4.0	2.0	3.0	7.0	5.5	6.0
4	.5	.0	.0	1.0	.5	.5	3.5	2.5	3.0	7.0	4.5	5.5
5	.5	.0	.0	1.0	.0	.5	4.5	2.5	3.0	7.5	5.5	6.5
6	.5	.0	.0	1.0	.0	.5	4.0	2.5	3.0	8.0	6.0	7.0
7	.5	.0	.0	1.5	.0	.5	3.0	1.0	2.0	8.0	6.0	7.0
8	.5	.0	.0	1.5	.0	.5	3.5	1.0	2.0	8.0	5.5	6.5
9	---	---	---	1.5	.0	.5	5.5	2.0	3.0	8.5	6.0	7.0
10	---	---	---	1.5	.0	.5	5.0	2.0	3.0	8.5	6.0	7.0
11	---	---	---	1.0	.0	.5	4.5	2.5	3.0	8.5	6.0	7.5
12	---	---	---	1.0	.5	1.0	5.5	2.5	3.5	8.0	6.0	7.0
13	---	---	---	1.0	.5	.5	4.5	2.0	3.0	8.0	6.0	7.0
14	.0	.0	.0	1.5	.5	1.0	5.0	1.5	2.5	7.5	6.5	7.0
15	.0	.0	.0	1.5	.5	1.0	6.5	2.0	3.5	7.5	5.5	6.5
16	.5	.0	.0	2.0	.5	1.0	6.0	2.5	4.0	7.0	5.5	6.5
17	.5	.0	.0	2.0	1.0	1.0	4.5	2.5	3.5	7.5	6.0	6.5
18	.5	.0	.0	2.0	.5	1.0	3.5	3.0	3.0	8.5	6.5	7.5
19	.5	.0	.5	2.0	.5	1.0	4.5	2.5	3.5	8.0	6.5	7.0
20	.5	.0	.5	1.5	1.0	1.0	4.0	3.0	3.5	8.5	6.0	7.0
21	.5	.0	.5	2.0	1.0	1.5	5.0	3.0	4.0	8.0	6.0	7.0
22	.5	.0	.5	---	---	---	5.5	3.5	4.0	7.5	6.0	7.0
23	.5	.0	.5	---	---	---	5.0	3.0	4.0	7.5	6.5	7.0
24	.5	.0	.5	---	---	---	6.0	3.5	4.5	8.0	6.0	7.0
25	1.0	.0	.5	---	---	---	6.5	3.5	5.0	7.5	5.5	6.5
26	1.0	.5	.5	---	---	---	6.0	4.0	5.0	9.5	6.0	7.5
27	1.0	.0	.5	---	---	---	5.5	3.5	4.5	10.0	7.5	8.5
28	1.0	.0	.5	---	---	---	7.0	4.0	5.5	9.0	7.0	7.5
29	1.0	.0	.5	---	---	---	6.0	5.0	5.5	9.5	6.5	8.0
30	---	---	---	---	---	---	6.0	5.0	5.5	9.5	6.5	8.0
31	---	---	---	---	---	---	---	---	---	10.0	7.0	8.5
MONTH	---	---	---	---	---	---	---	---	---	10.0	4.5	7.0

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

15050000 GOLD CREEK AT JUNEAU

LOCATION.--Lat 58°18′25″, long 134°24′05″, in NW¼ NE¼ sec. 23, T. 41 S., R. 67 E. (Juneau B-2 SE quad), City and Borough of Juneau, Hydrologic Unit 19010301, on left bank, 150 ft upstream from Alaska Electric Light and Power Company dam and diversion, 0.5 mi northeast of Juneau, and 1 mi upstream from mouth at Gastineau Channel.

DRAINAGE AREA.--9.76 mi^2.

PERIOD OF RECORD.--July 1916 to December 1920 (monthly discharge only), October 1946 to September 1948, October 1949 to September 1982. Annual maximums, water years 1991, 1994, 1996. October 1997 to current year.

REVISED RECORDS.--WSP 1372: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 245 ft above sea level, from topographic map. July 20, 1916 to December 31, 1920, at site 50 ft upstream at different datum. September 11, 1946 to September 30, 1948, nonrecording gage at site 0.7 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Water may be diverted about 0.5 mi upstream and three wells, located upstream from the gage in Last Chance Basin, pump water for municipal use and may decrease flow during winter periods.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 900 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct 19	0115	1320	5.15	Aug 22	0230	923	4.49
Dec 27	1845	*2040	*6.34	Sep 4	1745	1460	5.39
Jul 24	1115	1070	4.76				

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	295	259	18	179	11	4.5	93	120	130	195	261	108
2	343	143	18	156	10	5.9	79	114	142	187	189	90
3	429	98	18	137	9.3	9.2	68	121	159	194	163	82
4	301	74	19	116	9.0	7.4	56	115	181	221	192	644
5	275	61	19	100	8.4	6.3	48	97	206	250	241	325
6	359	49	19	93	8.0	5.5	42	96	247	301	175	311
7	423	43	17	79	7.7	4.9	42	99	275	255	133	324
8	544	39	16	66	7.4	4.4	49	96	242	221	159	213
9	362	42	15	52	7.0	3.8	35	101	213	268	151	180
10	313	42	15	37	6.5	3.6	28	139	188	258	136	126
11	315	46	15	29	6.3	3.4	25	164	205	214	130	368
12	308	47	15	24	5.9	3.2	20	136	189	212	119	213
13	338	40	14	22	5.6	3.3	18	142	238	165	109	183
14	303	36	14	e19	5.4	3.1	16	136	325	145	241	303
15	252	34	13	e18	4.9	3.1	15	128	288	167	435	193
16	492	43	13	e17	4.8	3.6	15	127	293	202	236	416
17	560	46	13	e15	4.7	5.6	14	134	435	231	173	491
18	678	37	12	e14	5.2	6.7	20	246	340	300	138	280
19	943	37	13	14	9.4	6.6	22	219	337	371	161	159
20	461	37	35	15	9.5	8.4	34	189	468	450	533	103
21	379	36	69	14	7.8	9.0	80	147	417	246	511	62
22	329	32	145	13	6.5	8.9	63	262	302	436	648	46
23	386	29	193	13	6.3	9.4	40	236	222	762	347	71
24	330	26	357	12	6.6	10	42	162	221	869	216	59
25	250	27	732	12	6.2	15	38	120	264	475	177	56
26	191	24	862	11	5.7	57	35	106	302	336	182	60
27	192	22	1620	16	5.3	57	36	116	352	297	160	47
28	151	20	1010	13	4.8	40	35	140	401	375	156	125
29	119	19	428	12	4.5	31	49	157	470	397	134	120
30	102	18	298	12	---	43	81	135	273	291	141	47
31	103	---	224	13	---	81	---	128	---	328	129	---
TOTAL	10826	1506	6269	1343	199.7	463.8	1238	4428	8325	9619	6876	5805
MEAN	349	50.2	202	43.3	6.89	15.0	41.3	143	278	310	222	194
MAX	943	259	1620	179	11	81	93	262	470	869	648	644
MIN	102	18	12	11	4.5	3.1	14	96	130	145	109	46
AC-FT	21470	2990	12430	2660	396	920	2460	8780	16510	19080	13640	11510

e Estimated

15050000 GOLD CREEK AT JUNEAU--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2000, BY WATER YEAR (WY)#

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	158	83.6	36.9	21.2	14.2	12.6	25.0	126	224	226	189	183
MAX	349	206	202	170	81.4	137	91.7	220	307	364	374	302
(WY)	2000	1947	2000	1981	1977	1947	1947	1948	1964	1975	1961	1999
MIN	62.6	18.1	6.22	1.71	.48	.055	3.78	64.5	134	130	85.4	73.7
(WY)	1952	1976	1956	1974	1972	1974	1954	1920	1981	1982	1968	1978

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1916 - 2000#	
ANNUAL TOTAL	51575.52		56898.5			
ANNUAL MEAN	141		155		109	
HIGHEST ANNUAL MEAN					155	2000
LOWEST ANNUAL MEAN					77.5	1951
HIGHEST DAILY MEAN	1620	Dec 27	1620	Dec 27	1830	Aug 12 1961
LOWEST DAILY MEAN	.00	Mar 6	a3.1	Mar 14	b.00	Mar 4 1951
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 6	3.3	Mar 10	.00	Mar 4 1951
INSTANTANEOUS PEAK FLOW			2040	Dec 27	2950	Sep 25 1996
INSTANTANEOUS PEAK STAGE			6.34	Dec 27	8.14	Sep 25 1996
INSTANTANEOUS LOW FLOW			c2.5	Mar 13	b.00	Mar 4 1951
ANNUAL RUNOFF (AC-FT)	102300		112900		78890	
10 PERCENT EXCEEDS	338		364		263	
50 PERCENT EXCEEDS	91		103		68	
90 PERCENT EXCEEDS	2.0		7.4		4.8	

\# See Period of Record; partial years used in monthly statistics
a Mar. 14 to Mar. 15
b No flow at times during some winters
c Mar. 13 and Mar. 14

15051010 SALMON CREEK NEAR JUNEAU

LOCATION.--Lat 58°19′57″, long 134°27′57″, in NE¼ SE¼ NW¼ sec. 9, T. 41 S., R. 67 E. (Juneau B-2 SE quad), City and Borough of Juneau, Hydrologic Unit 19010301, in Tongass National Forest, on left bank, about 0.3 mi upstream from mouth and 2.5 mi northwest of Juneau.

DRAINAGE AREA.--9.69 mi^2.

PERIOD OF RECORD.--October 1990 to current year. Daily discharge record previously collected 0.5 mi upstream at station number 15051008 "above canyon mouth" during water-years 1982-90. Drainage area, 9.50 mi^2.

REVISED RECORDS.--WDR AK 93-1: 1991 (m).

GAGE.--Water-stage recorder. Elevation of gage is 30 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges which are fair. Flow regulated by Salmon Creek Reservoir 2.5 mi upstream. Diversions upstream for off-stream hydropower plant; outflow from the plant goes into Gastineau Channel and is not included in the discharge records. Diversions upstream into Twin Lakes via a pipeline are also not included in the discharge records.

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	63	208	14	41	15	8.8	35	40	39	41	44	15
2	66	73	13	35	13	11	29	35	42	41	33	14
3	70	49	14	33	12	24	29	35	45	41	27	13
4	52	37	16	30	12	15	24	32	48	44	27	115
5	42	31	15	29	11	12	20	30	55	47	29	84
6	49	27	15	32	11	11	19	30	69	53	24	106
7	70	26	14	30	e9.6	e8.5	23	30	75	46	20	93
8	131	24	13	29	e9.0	e7.5	30	30	61	41	31	55
9	77	25	12	24	e8.7	e7.3	20	31	53	47	29	50
10	63	26	12	e14	e8.6	e7.2	17	34	48	44	21	37
11	71	28	12	e12	e8.5	e7.1	15	34	51	41	18	84
12	69	28	12	e11	e8.4	e7.1	14	30	48	38	16	53
13	78	24	11	e10	e8.3	e7.1	13	33	59	33	15	48
14	66	22	9.6	e9.7	e8.2	e7.3	12	34	69	30	35	73
15	51	20	9.4	e9.4	e8.1	e7.4	12	28	55	32	80	52
16	116	27	9.4	e9.0	13	e8.0	12	26	71	34	40	148
17	107	28	9.4	e8.6	11	e9.0	12	32	93	41	26	146
18	120	24	8.9	e8.4	13	15	20	59	71	51	21	73
19	207	24	11	e8.3	17	14	22	53	72	65	21	50
20	103	26	41	e8.1	16	19	31	42	89	93	68	39
21	98	25	54	e7.9	13	18	39	31	87	48	78	32
22	93	23	76	e7.7	11	17	25	78	66	79	126	28
23	109	21	75	e7.6	11	18	21	74	52	150	68	28
24	108	19	120	e7.5	12	20	20	46	51	229	41	25
25	78	18	260	e7.5	11	29	17	31	58	88	31	23
26	66	17	184	e7.5	11	61	16	26	63	63	27	22
27	66	15	545	29	e10	44	17	28	67	56	24	20
28	54	14	348	17	e8.6	27	23	37	75	58	23	27
29	43	13	103	19	13	23	29	51	92	60	20	28
30	38	13	66	18	---	32	34	39	51	46	19	23
31	42	---	51	19	---	43	---	36	---	53	18	---
TOTAL	2466	955	2153.7	539.2	322.0	545.3	650	1175	1875	1833	1100	1604
MEAN	79.5	31.8	69.5	17.4	11.1	17.6	21.7	37.9	62.5	59.1	35.5	53.5
MAX	207	208	545	41	17	61	39	78	93	229	126	148
MIN	38	13	8.9	7.5	8.1	7.1	12	26	39	30	15	13
AC-FT	4890	1890	4270	1070	639	1080	1290	2330	3720	3640	2180	3180

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)#

MEAN	65.2	30.0	27.6	17.4	22.8	17.6	26.4	52.1	56.1	45.3	37.3	64.1
MAX	131	76.9	69.5	33.5	45.0	39.0	38.6	71.3	82.9	69.0	66.5	108
(WY)	1999	1994	2000	1992	1992	1992	1994	1992	1991	1997	1991	1991
MIN	36.2	16.3	12.7	9.65	9.16	9.38	18.0	29.7	35.9	22.7	18.2	41.0
(WY)	1997	1991	1997	1997	1999	1997	1998	1996	1995	1993	1994	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000#	
ANNUAL TOTAL	16994.1		15218.2			
ANNUAL MEAN	46.6		41.6		38.5	
HIGHEST ANNUAL MEAN					48.6	1992
LOWEST ANNUAL MEAN					29.7	1995
HIGHEST DAILY MEAN	545	Dec 27	545	Dec 27	954	Oct 20 1998
LOWEST DAILY MEAN	6.5	Jan 1	a7.1	Mar 11	6.2	Mar 10 1998
ANNUAL SEVEN-DAY MINIMUM	8.1	Mar 3	7.2	Mar 9	6.8	Mar 4 1998
INSTANTANEOUS PEAK FLOW			795	Dec 27	1930	Sep 25 1996
INSTANTANEOUS PEAK STAGE			3.69	Dec 27	b4.65	Sep 25 1996
ANNUAL RUNOFF (AC-FT)	33710		30190		27930	
10 PERCENT EXCEEDS	93		78		74	
50 PERCENT EXCEEDS	36		29		28	
90 PERCENT EXCEEDS	8.9		9.4		10	

\# See Period of Record
a Mar. 11 to Mar. 13
b From flood marks
e Estimated

15052475 JORDAN CREEK BELOW EGAN DRIVE NEAR AUKE BAY

LOCATION.--Lat 58°21′59″, long 134°34′34″, in SW¼ SW¼ SE¼ sec. 30, T. 40 S., R. 66 (Juneau B-2 SW quad), Hydrologic Unit 19010301, City and Borough of Juneau on right bank at downstream side of footbridge, 50 ft downstream from Egan Drive, 0.4 mi southeast of intersection of Egan Drive and Mendenhall Loop Road and 3 mi east of Auke Bay Post Office.

DRAINAGE AREA.--2.60 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to current year. Prior to October 1996, published as miscellaneous site 15052482 Jordan Creek at Trout Street Bridge near Auke Bay, at site about 500 ft downstream at different datum.

GAGE.--Water-stage recorder. Datum of gage is 19.80 ft above sea level, determined by levels survey.

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

EXTEREMES OUTSIDE PERIOD OF DAILY RECORD.--Flood of September 25, 1996, reached a stage of 4.34 ft, site and datum then in use, from floodmarks, discharge 140 ft^3/s; no flow observed March 2, 1989, March 5, 1996, and January 15, 1997.

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	21	53	5.7	20	2.7	.66	11	5.0	5.3	7.1	15	5.6
2	20	31	5.5	15	2.0	1.2	8.9	4.8	5.2	5.3	11	5.1
3	21	20	6.3	13	1.7	3.1	8.8	4.9	4.9	4.5	9.1	4.8
4	18	16	8.2	11	e1.5	1.8	7.7	4.8	4.5	3.9	8.1	26
5	15	14	7.0	9.8	1.4	1.4	7.8	4.5	3.9	3.5	7.1	30
6	15	12	7.0	11	1.2	e1.0	8.8	4.5	4.0	3.5	6.4	20
7	15	11	6.2	11	1.1	e.90	9.4	4.6	5.9	3.1	5.8	22
8	23	9.8	5.9	11	.99	e.75	13	4.8	4.9	2.8	8.3	18
9	18	9.1	5.2	8.0	e.90	e.70	8.7	4.9	3.9	2.6	8.7	24
10	15	8.3	5.4	6.5	.85	e.60	7.0	5.4	3.3	2.4	5.7	15
11	15	8.6	6.9	e4.4	.76	e.50	6.3	5.5	3.3	2.4	5.0	25
12	16	7.3	6.1	e3.4	.72	e.40	5.8	5.2	2.7	2.3	4.6	18
13	23	6.6	5.1	e2.2	.70	e.23	5.1	5.3	2.5	2.0	4.5	17
14	24	6.2	4.5	e2.2	e.68	e.27	4.1	5.3	2.9	1.8	5.2	23
15	18	5.8	4.3	e2.2	e.65	.27	3.4	6.4	2.7	1.7	9.1	16
16	32	8.9	4.1	e2.1	e.62	.55	3.1	4.8	3.7	1.6	5.8	46
17	22	11	4.0	e2.1	e.60	1.6	3.2	5.0	5.1	1.9	4.8	49
18	22	7.1	e3.4	e2.1	e1.5	1.8	4.6	9.4	5.6	2.9	4.2	31
19	35	8.4	e3.3	e2.0	e2.0	1.5	4.5	11	5.3	5.3	4.5	21
20	27	10	14	e2.0	2.8	3.1	5.0	9.5	8.1	15	12	18
21	26	8.9	15	e1.6	2.0	3.4	5.6	7.2	13	6.5	18	14
22	27	8.8	19	e1.5	1.6	4.2	5.4	9.2	11	6.2	43	12
23	32	8.5	19	e1.4	1.1	5.3	4.2	12	6.6	16	21	12
24	36	7.8	27	e1.3	e1.2	6.0	3.9	8.9	5.0	44	13	10
25	25	8.5	54	1.2	1.2	6.9	3.5	6.6	4.3	21	11	8.7
26	22	7.3	40	1.2	1.4	14	3.5	5.7	3.7	14	9.8	7.9
27	20	6.4	101	e9.0	1.3	9.6	3.6	5.5	3.4	12	8.8	7.3
28	17	5.6	129	e9.0	e.88	6.4	6.0	5.3	6.3	12	8.6	6.8
29	15	5.3	61	e6.5	.70	5.8	6.3	8.6	22	26	7.2	6.8
30	13	4.9	37	5.1	---	7.7	5.3	6.7	9.5	15	7.3	6.4
31	13	---	26	4.0	---	15	---	5.8	---	15	6.4	---
TOTAL	661	336.1	646.1	182.8	36.75	106.63	183.5	197.1	172.5	263.3	299.0	526.4
MEAN	21.3	11.2	20.8	5.90	1.27	3.44	6.12	6.36	5.75	8.49	9.65	17.5
MAX	36	53	129	20	2.8	15	13	12	22	44	43	49
MIN	13	4.9	3.3	1.2	.60	.23	3.1	4.5	2.5	1.6	4.2	4.8
AC-FT	1310	667	1280	363	73	212	364	391	342	522	593	1040
CFSM	8.20	4.31	8.02	2.27	.49	1.32	2.35	2.45	2.21	3.27	3.71	6.75
IN.	9.46	4.81	9.24	2.62	.53	1.53	2.63	2.82	2.47	3.77	4.28	7.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY) #

MEAN	18.2	8.06	14.0	6.91	1.11	2.51	7.32	8.41	5.36	6.02	7.35	15.1
MAX	22.2	11.2	20.8	11.3	1.57	3.44	12.1	13.7	10.2	8.49	9.65	18.7
(WY)	1999	2000	2000	1999	1998	2000	1999	1999	1999	2000	2000	1999
MIN	11.1	4.21	2.67	3.52	.47	1.62	3.80	3.71	1.63	3.97	5.63	7.68
(WY)	1998	1999	1999	1998	1999	1998	1998	1998	1998	1998	1997	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000#	
ANNUAL TOTAL	4114.72		3611.18			
ANNUAL MEAN	11.3		9.87		8.65	
HIGHEST ANNUAL MEAN					9.87	2000
LOWEST ANNUAL MEAN					6.85	1998
HIGHEST DAILY MEAN	129	Dec 28	129	Dec 28	129	Dec 28 1999
LOWEST DAILY MEAN	a.00	Mar 3	.23	Mar 13	a.00	Mar 3 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Mar 3	.40	Mar 10	.00	Mar 3 1999
INSTANTANEOUS PEAK FLOW			149	Dec 28	149	Dec 28 1999
INSTANTANEOUS PEAK STAGE			7.59	Dec 28	7.59	Dec 28 1999
INSTANTANEOUS LOW FLOW			b		.00	Mar 3 1999
ANNUAL RUNOFF (AC-FT)	8160		7160		6270	
ANNUAL RUNOFF (CFSM)	4.34		3.79		3.33	
ANNUAL RUNOFF (INCHES)	58.87		51.67		45.20	
10 PERCENT EXCEEDS	26		22		19	
50 PERCENT EXCEEDS	7.6		6.2		5.2	
90 PERCENT EXCEEDS	.63		1.4		1.1	

\# See Period of Record; partial year used in monthly statistics
a Mar. 3 to Mar. 9
b Not determined, see lowest daily mean
e Estimated

15052475 JORDAN CREEK BELOW EGAN DRIVE NEAR AUKE BAY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1997 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July 1999 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder with 15-minute recording interval started on July 15, 1999.

REMARKS.-- Records represent water temperature at the sensor within 0.5°C.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 12.0 °C, July 15-17, 1999; minimum, 0°C, many days during winters.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 11.5°C, June 12 and 26; minimum, 0°C, many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
DEC								
28...	1410	29.0	7.18	125	10	3044	41	14

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.5	7.0	7.5	5.0	4.5	5.0	3.0	2.0	2.5	2.5	1.5	2.0
2	7.5	7.5	7.5	5.0	4.5	4.5	3.5	3.0	3.0	1.5	.5	1.0
3	8.0	7.5	7.5	4.5	4.0	4.5	3.5	3.0	3.5	2.0	1.5	1.5
4	8.0	7.0	7.5	4.5	4.0	4.5	3.5	3.0	3.0	2.0	1.5	2.0
5	8.0	7.5	7.5	5.5	4.5	5.0	3.5	3.0	3.0	2.5	2.0	2.0
6	8.0	7.5	8.0	5.0	4.5	5.0	3.5	3.0	3.5	3.0	2.0	2.5
7	7.5	7.5	7.5	5.5	5.0	5.0	3.0	2.5	3.0	3.0	2.0	3.0
8	7.5	7.0	7.5	5.5	5.0	5.0	3.0	3.0	3.0	2.5	2.0	2.0
9	7.5	7.0	7.0	5.5	5.0	5.5	3.0	2.5	2.5	2.0	1.5	1.5
10	7.0	6.5	6.5	5.5	5.0	5.0	3.0	2.5	2.5	1.5	.5	1.0
11	7.0	6.5	6.5	5.5	5.0	5.5	3.0	2.5	3.0	.5	.0	.0
12	7.0	6.5	6.5	6.0	5.0	5.5	3.0	2.0	2.5	.0	.0	.0
13	7.0	6.5	6.5	5.5	5.0	5.5	2.0	1.0	2.0	.0	.0	.0
14	6.5	6.0	6.5	5.5	5.0	5.5	1.0	1.0	1.0	.0	.0	.0
15	6.5	6.0	6.0	5.0	4.5	4.5	1.0	.5	1.0	.0	.0	.0
16	7.0	6.0	6.5	5.0	5.0	5.0	1.5	.5	1.0	.0	.0	.0
17	7.5	7.0	7.5	5.0	4.5	5.0	1.0	.5	1.0	.0	.0	.0
18	8.0	7.0	7.5	5.0	4.5	4.5	.5	.5	.5	.0	.0	.0
19	8.0	7.5	8.0	5.0	5.0	5.0	.5	.5	.5	.0	.0	.0
20	7.5	6.5	7.0	5.0	4.5	5.0	2.0	.5	1.5	.0	.0	.0
21	7.5	6.0	6.5	5.0	4.5	4.5	3.0	2.0	2.5	.0	.0	.0
22	7.0	6.5	7.0	5.0	4.5	4.5	3.0	2.5	3.0	.0	.0	.0
23	6.5	6.5	6.5	4.5	4.0	4.5	4.5	3.0	4.0	.0	.0	.0
24	6.5	6.0	6.5	4.5	3.5	4.0	4.5	3.5	4.0	.0	.0	.0
25	6.5	6.0	6.5	4.0	3.5	3.5	4.5	3.5	4.5	.5	.0	.0
26	6.0	6.0	6.0	3.5	3.5	3.5	6.0	4.5	5.0	.0	.0	.0
27	6.5	6.0	6.0	3.5	1.5	2.5	6.0	5.0	5.5	.0	.0	.0
28	6.0	5.5	6.0	2.0	1.0	1.5	5.0	4.0	4.5	.0	.0	.0
29	5.5	5.0	5.0	2.0	1.0	1.5	4.0	3.5	3.5	.0	.0	.0
30	5.5	5.0	5.0	2.0	.5	1.5	3.5	3.0	3.0	1.0	.0	.5
31	5.0	4.5	5.0	---	---	---	3.0	2.5	2.5	1.0	1.0	1.0
MONTH	8.0	4.5	6.7	6.0	.5	4.4	6.0	.5	2.8	3.0	.0	.6

15052475 JORDAN CREEK BELOW EGAN DRIVE NEAR AUKE BAY--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	1.0	1.0	2.0	1.0	1.5	3.5	1.5	2.5	6.5	4.5	5.5
2	1.5	1.0	1.0	2.0	1.5	1.5	4.0	2.5	3.0	8.0	4.5	6.0
3	1.0	.0	.5	1.5	1.0	1.0	4.5	2.5	3.5	7.5	4.5	6.0
4	.5	.0	.0	1.5	1.0	1.5	4.0	2.5	3.5	8.0	4.5	6.0
5	.5	.0	.5	2.0	.5	1.5	4.0	2.5	3.5	8.0	5.0	6.5
6	.5	.0	.5	.5	.0	.0	3.5	2.5	3.0	8.5	4.5	6.5
7	1.0	.5	1.0	.0	.0	.0	2.5	1.5	2.5	8.5	5.5	7.0
8	1.0	.0	.5	.0	.0	.0	4.0	1.5	2.5	8.0	4.0	6.0
9	.5	.0	.0	.0	.0	.0	4.0	2.0	2.5	9.0	4.5	6.5
10	.0	.0	.0	.0	.0	.0	4.0	1.0	2.5	9.5	4.5	6.5
11	.0	.0	.0	.0	.0	.0	3.5	2.5	3.0	9.5	4.5	7.0
12	.0	.0	.0	.0	.0	.0	5.0	3.0	4.0	9.0	4.5	7.0
13	.0	.0	.0	.0	.0	.0	4.0	1.5	3.0	8.5	6.0	7.5
14	.0	.0	.0	.0	.0	.0	4.0	1.0	2.5	7.5	5.5	6.0
15	.0	.0	.0	1.5	.0	.5	5.0	2.0	3.5	8.0	5.5	6.5
16	.0	.0	.0	2.5	1.5	2.0	5.0	2.5	3.5	7.0	5.5	6.5
17	.0	.0	.0	2.0	1.5	2.0	4.5	3.5	4.0	8.0	5.5	7.0
18	.0	.0	.0	2.5	1.5	2.0	4.0	3.5	3.5	7.0	6.0	6.5
19	.0	.0	.0	2.5	1.0	2.0	5.0	3.0	4.0	6.5	5.5	6.0
20	.0	.0	.0	2.0	1.5	1.5	4.5	4.0	4.5	7.5	5.0	6.0
21	.0	.0	.0	2.0	1.0	1.5	5.5	3.5	4.5	6.5	5.0	6.0
22	.0	.0	.0	2.0	1.0	1.5	6.0	3.5	4.5	6.5	5.5	6.0
23	.0	.0	.0	2.0	1.0	1.5	4.5	2.0	3.5	6.0	5.0	5.5
24	.0	.0	.0	2.0	1.5	1.5	6.0	3.5	4.5	7.0	4.5	6.0
25	1.0	.0	.5	2.5	1.5	2.0	6.5	3.0	5.0	7.0	4.5	6.0
26	1.5	1.0	1.5	2.0	1.0	1.5	6.5	3.5	5.5	9.0	4.0	6.5
27	2.0	.5	1.0	2.0	1.5	2.0	6.0	3.0	4.5	9.5	5.0	7.0
28	1.0	.0	.5	2.5	1.0	1.5	6.5	4.0	5.0	8.5	6.0	7.0
29	1.5	.5	1.0	2.5	1.5	2.0	5.5	4.5	5.0	7.5	6.0	6.5
30	---	---	---	3.5	2.0	2.5	6.0	4.5	5.0	9.0	5.0	7.0
31	---	---	---	2.5	1.5	2.0	---	---	---	9.5	5.0	7.5
MONTH	2.0	.0	.3	3.5	.0	1.2	6.5	1.0	3.7	9.5	4.0	6.4

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.0	6.0	8.0	9.0	7.5	8.5	9.5	9.0	9.5	8.0	6.5	7.5
2	10.0	6.0	8.0	9.0	8.0	8.5	9.5	7.5	8.5	8.0	6.0	7.0
3	10.5	6.0	8.0	9.5	7.5	8.5	9.5	8.5	9.0	7.5	6.0	7.0
4	10.0	6.5	8.5	10.5	7.5	9.0	10.0	8.5	9.5	9.0	7.5	8.0
5	10.0	7.0	8.5	10.5	8.5	9.5	10.5	9.0	9.5	9.5	8.5	9.0
6	9.0	7.5	8.0	10.5	9.0	9.5	9.5	8.5	9.0	9.0	8.5	9.0
7	8.0	7.0	7.5	9.5	8.5	9.0	10.0	8.5	9.0	9.0	8.0	8.5
8	9.0	7.0	8.0	10.5	7.5	9.0	9.0	8.0	8.5	8.0	7.0	7.5
9	8.5	7.0	8.0	11.0	9.5	10.5	10.5	8.5	9.5	8.5	7.0	7.5
10	11.0	7.0	9.0	10.5	9.5	10.0	10.5	8.5	9.5	8.0	6.5	7.5
11	10.0	8.0	8.5	10.0	9.0	9.5	10.0	8.0	9.0	8.5	8.0	8.0
12	11.5	7.0	9.0	10.5	9.0	9.5	10.0	9.0	9.5	8.5	8.0	8.0
13	11.0	8.5	9.0	11.0	8.5	9.5	9.5	8.5	9.0	8.0	7.5	8.0
14	8.5	8.0	8.5	11.0	9.0	10.0	9.0	9.0	9.0	8.0	8.0	8.0
15	9.0	7.5	8.0	10.0	9.5	9.5	10.0	9.0	9.5	8.0	7.5	7.5
16	8.5	7.5	7.5	11.0	9.0	10.0	9.5	9.0	9.5	8.0	7.0	7.5
17	8.5	7.5	8.0	10.5	9.5	10.0	10.0	8.5	9.0	9.0	8.0	8.5
18	8.5	7.0	8.0	10.0	9.0	9.5	10.0	8.0	9.0	9.0	8.0	8.5
19	8.0	7.0	7.5	9.5	9.0	9.5	9.5	9.0	9.0	8.0	7.0	7.5
20	8.5	7.0	8.0	10.5	9.5	10.0	9.5	9.0	9.0	7.5	6.5	7.0
21	8.0	7.0	7.5	10.0	9.0	9.5	9.5	9.0	9.5	7.0	5.5	6.5
22	9.0	6.5	7.5	10.0	9.5	9.5	9.5	9.5	9.5	7.5	6.0	6.5
23	9.5	6.0	7.5	10.0	9.0	9.5	10.0	8.5	9.0	8.5	7.0	7.5
24	10.5	7.0	8.5	10.0	9.0	9.5	9.0	8.0	8.5	8.5	7.5	8.0
25	10.0	8.0	9.0	9.5	9.0	9.0	9.0	8.0	8.5	8.5	7.5	8.0
26	11.5	8.5	10.0	9.5	8.5	9.0	9.0	8.0	8.5	8.5	8.0	8.0
27	11.0	9.5	10.0	9.0	8.5	9.0	8.5	7.5	8.0	9.0	7.5	8.0
28	10.5	8.5	9.5	9.5	8.5	9.0	9.0	7.5	8.0	8.5	8.0	8.5
29	10.0	9.0	9.5	10.0	9.5	9.5	8.5	7.0	8.0	8.5	7.0	7.5
30	9.0	7.0	8.0	9.5	8.5	9.0	9.0	8.0	8.5	7.0	5.5	6.0
31	---	---	---	10.0	8.5	9.0	8.5	7.5	8.0	---	---	---
MONTH	11.5	6.0	8.4	11.0	7.5	9.4	10.5	7.0	8.9	9.5	5.5	7.7

15052495 NUGGET CREEK ABOVE DIVERSION NEAR AUKE BAY

LOCATION.--Lat 58°25′25″, long 134°31′25″, in SE¼ SE¼ SW¼ sec. 4, T. 40 S., R. 66 E. (Juneau B-2 NW quad), Hydrologic Unit 19010301, City and Borough of Juneau, on left bank, 1,200 ft upstream from old diversion dam, 3,000 ft upstream from mouth at Mendenhall Lake and 5.2 mi northeast of Auke Bay.

DRAINAGE AREA.-- 15.8 mi^2

PERIOD OF RECORD.--March to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 590 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Maximum discharge during period March to September, 2,220 ft^3/s; September 4, gage height 24.86 ft from rating curve extended above 1,200 ft^3/s; minimum discharge 11 ft^3/s, April 12.

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	---	---	---	---	---	---	40	62	242	371	549	182
2	---	---	---	---	---	---	32	61	284	338	383	134
3	---	---	---	---	‡20	---	34	72	322	357	319	121
4	---	---	---	---	---	---	27	72	349	436	356	1150
5	---	---	---	---	---	---	24	68	439	491	569	1010
6	---	---	---	---	---	---	23	72	452	548	443	1010
7	---	---	---	---	---	‡12	22	86	492	486	326	688
8	---	---	---	---	---	---	21	96	432	454	328	452
9	---	---	---	---	---	---	20	105	372	501	303	325
10	---	---	---	---	---	---	18	129	370	466	295	247
11	---	---	---	---	---	---	18	171	383	380	260	561
12	---	---	---	---	---	---	15	168	358	345	218	470
13	---	---	---	---	---	---	20	153	434	304	195	410
14	---	---	---	---	---	---	17	146	546	273	501	520
15	---	---	---	---	---	---	17	128	528	421	741	339
16	---	---	---	---	---	---	18	131	556	505	491	793
17	---	---	---	---	---	---	19	164	666	490	363	1060
18	---	---	---	---	---	---	21	261	628	536	270	657
19	---	---	---	---	---	---	22	241	632	688	358	368
20	---	---	---	---	---	---	29	191	630	969	804	237
21	---	---	---	---	---	---	40	148	553	552	934	173
22	---	---	---	---	---	e17	35	234	398	783	1380	151
23	---	---	---	---	---	18	29	195	317	1190	766	230
24	---	---	---	---	---	19	26	128	369	1330	396	265
25	---	---	---	---	---	22	24	101	443	773	299	241
26	---	---	---	---	---	39	26	100	509	570	347	231
27	---	---	---	---	---	35	29	153	569	522	277	198
28	---	---	---	---	---	24	39	222	722	698	239	393
29	---	---	---	---	---	21	49	249	791	1040	215	343
30	---	---	---	---	---	29	52	197	490	681	343	181
31	---	---	---	---	---	60	---	207	---	679	256	---
TOTAL	---	---	---	---	---	---	806	4511	14276	18177	13524	13140
MEAN	---	---	---	---	---	---	26.9	146	476	586	436	438
MAX	---	---	---	---	---	---	52	261	791	1330	1380	1150
MIN	---	---	---	---	---	---	15	61	242	273	195	121
MED	---	---	---	---	---	---	24	146	448	505	347	341
AC-FT	---	---	---	---	---	---	1600	8950	28320	36050	26820	26060
CFSM	---	---	---	---	---	---	1.70	9.21	30.1	37.1	27.6	27.7
IN.	---	---	---	---	---	---	1.90	10.62	33.61	42.80	31.84	30.94

‡ Result of discharge measurement
e estimated

15052500 MENDENHALL RIVER NEAR AUKE BAY

LOCATION.--Lat 58°25′47″, long 134°34′22″, in NW¼ SE¼ sec. 6, T. 40 S., R. 66 E. (Juneau B-2 NW quad.), Hydrologic Unit 19010301, at the north end of Mendenhall Lake, 1.2 mi north of Mendenhall Lake Outlet and 4.1 mi northeast of Auke Bay, and 7 mi upstream from mouth at Fritz Cove.

DRAINAGE AREA.--85.1 mi^2.

PERIOD OF RECORD.--May 1965 to October 1994, annual maximum, water years 1995-96, October 1996 to current year. Prior to April 15, 1983, at site 1.3 mi southeast at east end of Mendenhall Lake, same datum.

REVISED RECORDS.--WDR AK-95-1: 1981(M)

GAGE.--Water-stage recorder. Elevation of gage is 60 ft above sea level, from topographic map.

REMARKS.--Records fair except estimated daily discharges, which are poor. Streamflow is augmented and diurnal fluctuations caused by melting from Mendenhall Glacier, which covers two-thirds of the basin. GOES satellite telemetry at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--During late summer 1961, flood flows of 27,000 ft^3/s were estimated at the mouth of the Mendenhall River. For discussion of this flood, see USGS Hydrologic Atlas HA-259.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,600 ft^3/s and maximum (*):.

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jul 23	1530	6970	7.61	Aug 22	1315	*8020	*8.07
Jul 29	1830	5240	6.75	Sep 7	0915	6400	7.34
Aug 16	2315	4860	6.54	Sep 18	1600	5460	6.87

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	1330	e700	130	958	124	56	189	214	859	2550	4220	2470
2	1640	e880	128	e700	114	55	175	236	938	2790	3170	1880
3	1790	e690	124	e500	105	60	169	262	1030	2200	2920	1580
4	1720	e500	131	e400	98	61	161	284	1120	2250	2920	2330
5	1660	355	126	e340	92	58	149	303	1190	2630	3510	3610
6	1830	308	123	e280	87	53	143	320	1320	3150	3520	4560
7	1720	276	121	e250	84	50	136	352	1400	2760	2780	5920
8	1590	252	116	e220	80	47	147	412	1430	2540	2540	4190
9	1270	237	109	e210	77	45	135	431	1440	2770	2420	3110
10	942	230	107	e190	74	43	118	451	1520	2760	2450	2320
11	808	234	107	e170	71	42	106	476	1700	2410	2480	2640
12	798	234	105	e160	69	41	98	e440	1660	2320	2250	3190
13	895	226	96	e160	67	39	92	e450	1750	2240	2050	3100
14	1010	220	90	e150	65	39	87	e480	1830	2140	2300	3140
15	829	214	88	e140	e64	40	85	e460	2010	2060	3680	3030
16	914	226	88	e130	e64	42	85	e440	2020	2430	4570	2680
17	1340	289	88	e130	e64	51	84	e520	2410	2680	4550	3940
18	1430	287	83	e130	e62	60	87	670	2440	2850	2950	5170
19	2590	290	88	e120	72	64	94	749	2460	3120	2680	4100
20	4040	325	154	e120	82	67	100	733	2430	4450	3750	2650
21	3220	313	210	e120	82	71	123	639	2390	4030	5160	1780
22	3160	284	323	e120	79	75	138	667	2060	4340	7630	1460
23	2530	255	410	e110	77	80	137	751	1800	6430	6020	1460
24	1900	223	606	e110	75	82	131	668	1800	6590	3570	1740
25	1350	214	965	e110	73	94	127	587	1940	4820	2660	1980
26	1130	196	1330	107	69	121	129	560	2100	3590	2660	2120
27	946	174	2330	126	67	144	133	612	2380	3370	2660	2070
28	842	156	3120	142	61	137	155	746	2690	3500	2210	2340
29	704	147	2180	133	59	122	182	849	3420	4960	2150	3190
30	544	135	1470	126	---	126	196	832	2820	4400	2370	2760
31	e480	---	1150	128	---	156	---	816	---	4240	2650	---
TOTAL	46952	9070	16296	6790	2257	2221	3891	16410	56357	103370	101450	86510
MEAN	1515	302	526	219	77.8	71.6	130	529	1879	3335	3273	2884
MAX	4040	880	3120	958	124	156	196	849	3420	6590	7630	5920
MIN	480	135	83	107	59	39	84	214	859	2060	2050	1460
AC-FT	93130	17990	32320	13470	4480	4410	7720	32550	111800	205000	201200	171600
CFSM	17.8	3.55	6.18	2.57	.91	.84	1.52	6.22	22.1	39.2	38.5	33.9
IN.	20.52	3.96	7.12	2.97	.99	.97	1.70	7.17	24.64	45.19	44.35	37.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, BY WATER YEAR (WY)#

MEAN	1346	347	156	110	90.7	93.4	143	657	1870	2999	3328	2681
MAX	2649	920	526	600	254	379	313	1227	2819	3835	4701	4100
(WY)	1987	1977	2000	1981	1977	1992	1994	1993	1969	1979	1990	1991
MIN	532	110	40.0	30.8	21.5	22.3	56.9	268	732	1939	2025	1380
(WY)	1969	1986	1984	1969	1969	1974	1967	1985	1985	1985	1985	1984

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

15052500 MENDENHALL RIVER NEAR AUKE BAY--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1965 - 2000#	
ANNUAL TOTAL	466751		451574			
ANNUAL MEAN	1279		1234		1164	
HIGHEST ANNUAL MEAN					1547	1990
LOWEST ANNUAL MEAN					758	1985
HIGHEST DAILY MEAN	8060	Sep 19	7630	Aug 22	13700	Sep 8 1981
LOWEST DAILY MEAN	22	Mar 9	39	Mar 13	19	Mar 1 1969
ANNUAL SEVEN-DAY MINIMUM	23	Mar 5	41	Mar 10	19	Mar 5 1974
INSTANTANEOUS PEAK FLOW			8020	Aug 22	16000	Sep 11 1995
INSTANTANEOUS PEAK STAGE			8.07	Aug 22	a 11.18	Sep 11 1995
INSTANTANEOUS LOW FLOW			39	Mar 13	b 19	Mar 1 1969
ANNUAL RUNOFF (AC-FT)	925800		895700		843000	
ANNUAL RUNOFF (CFSM)	15.0		14.5		13.7	
ANNUAL RUNOFF (INCHES)	204.03		197.40		185.78	
10 PERCENT EXCEEDS	3450		3160		3210	
50 PERCENT EXCEEDS	410		480		403	
90 PERCENT EXCEEDS	32		75		48	

\# See Period of Record;partial years used in monthly statistics
a From floodmarks
b Mar. 1 to Mar.3, 1969, and Mar.7 to Mar. 11,1974

15053200 DUCK CREEK BELOW NANCY STREET NEAR AUKE BAY

LOCATION.--Lat 58°22′31″, long 134°34′38″, in NW¼ SW¼ NE¼ sec. 30, T. 40 S., R. 66 E. (Juneau B-2 NW), Hydrologic Unit 19010301, City and Borough of Juneau, on right bank, 50 ft south of intersection of Nancy Street and Mendenhall Loop Road, 0.4 mi north of intersection of Egan Drive and Mendenhall Loop Road, and 1.44 mi upstream from mouth.

DRAINAGE AREA.-- 1.30 mi^2.

PERIOD OF RECORD.--December 1993 to current year.

GAGE.--Water-stage recorder. Datum of gage is 21.87 ft above sea level, determined by levels survey.

REMARKS.--No estimated daily discharges. Records good.

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	16	41	5.6	11	4.4	.65	5.8	3.4	2.1	5.3	7.5	4.5
2	17	28	5.8	7.8	3.2	.87	4.2	3.1	1.8	4.1	5.4	4.2
3	18	19	6.5	6.7	2.7	1.8	3.4	2.7	1.6	3.7	4.3	3.9
4	16	15	8.3	5.8	2.3	1.2	2.8	2.5	1.5	3.0	6.6	18
5	14	12	7.4	5.4	1.9	.94	2.8	2.3	1.3	2.6	7.4	19
6	15	9.6	7.5	6.9	1.7	.77	2.9	2.2	1.3	2.6	4.5	17
7	13	9.2	6.8	8.4	1.6	.63	3.4	2.2	2.1	2.4	3.8	16
8	21	7.6	6.6	9.4	1.6	.48	6.3	2.0	1.9	2.1	5.0	15
9	18	7.6	5.8	7.6	1.5	.39	4.1	2.0	1.6	1.9	5.2	18
10	15	7.3	5.4	5.6	1.3	.36	3.2	1.8	1.3	1.7	3.8	14
11	17	7.4	5.9	4.7	1.3	.32	2.7	1.8	1.1	1.7	3.1	19
12	18	6.8	6.5	3.6	1.3	.28	2.7	1.7	.98	1.6	2.8	16
13	23	6.0	5.7	2.6	1.1	.25	2.5	1.6	.86	1.4	2.6	16
14	21	5.4	4.8	2.2	.84	.21	2.5	1.5	1.3	1.3	3.5	20
15	18	5.0	4.4	2.0	.83	.19	2.3	2.5	1.2	1.2	5.4	18
16	26	8.5	4.0	2.0	.67	.24	2.1	2.0	2.0	1.1	4.4	30
17	20	11	3.7	1.8	.66	.69	2.1	2.2	2.6	1.1	4.0	29
18	19	8.1	3.2	1.6	1.5	.64	3.4	4.1	2.9	1.7	3.6	22
19	25	8.8	3.6	1.5	4.8	.61	3.6	5.1	3.1	2.7	3.6	19
20	22	10	12	1.5	3.3	1.4	3.8	4.1	3.7	4.9	6.9	17
21	22	9.3	14	1.5	2.0	1.4	4.0	3.4	5.1	3.6	11	14
22	23	8.9	13	1.4	1.3	1.6	4.2	4.7	4.6	3.3	19	12
23	25	8.8	10	1.4	1.0	1.9	3.5	6.5	3.6	5.6	14	12
24	23	8.2	13	1.3	1.4	2.4	3.3	5.2	2.9	15	9.7	11
25	18	8.8	20	1.2	1.2	3.4	2.9	3.6	2.5	10	7.7	8.5
26	16	7.7	17	1.2	1.1	6.2	2.6	2.7	2.2	7.1	6.5	7.6
27	16	6.8	36	13	.97	5.1	2.4	2.4	2.0	5.8	6.0	7.4
28	14	5.9	68	9.3	.77	3.4	3.4	2.1	4.1	5.7	6.3	8.1
29	12	5.3	34	8.9	.69	3.0	3.6	3.7	11	10	5.4	9.3
30	10	4.7	20	6.5	---	4.0	3.4	3.1	6.7	7.5	5.7	8.9
31	10	---	15	6.6	---	7.0	---	2.5	---	7.5	5.2	---
TOTAL	561	307.7	379.5	150.4	48.93	52.32	99.8	90.7	80.94	129.2	189.9	434.4
MEAN	18.1	10.3	12.2	4.85	1.69	1.69	3.33	2.93	2.70	4.17	6.13	14.5
MAX	26	41	68	13	4.8	7.0	6.3	6.5	11	15	19	30
MIN	10	4.7	3.2	1.2	.66	.19	2.1	1.5	.86	1.1	2.6	3.9
AC-FT	1110	610	753	298	97	104	198	180	161	256	377	862

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY) #

MEAN	9.21	4.69	5.60	2.37	1.99	2.29	3.33	2.91	2.31	2.86	3.93	8.39
MAX	18.1	10.3	12.2	4.85	3.55	5.08	6.16	4.97	3.47	4.23	6.13	14.5
(WY)	2000	2000	2000	2000	1997	1994	1999	1999	1999	1997	2000	2000
MIN	5.29	2.36	1.95	.85	.79	.94	1.68	1.60	1.20	1.75	1.31	3.81
(WY)	1998	1996	1996	1997	1999	1995	1996	1996	1998	1995	1994	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000#	
ANNUAL TOTAL	2353.08		2524.79			
ANNUAL MEAN	6.45		6.90		4.17	
HIGHEST ANNUAL MEAN					6.90	2000
LOWEST ANNUAL MEAN					3.26	1995
HIGHEST DAILY MEAN	68	Dec 28	68	Dec 28	68	Dec 28 1999
LOWEST DAILY MEAN	.25	Mar 7	.19	Mar 15	.19	Mar 15 2000
ANNUAL SEVEN-DAY MINIMUM	.39	Mar 4	.26	Mar 10	.26	Mar 10 2000
INSTANTANEOUS PEAK FLOW			80	Dec 28	80	Dec 28 1999
INSTANTANEOUS PEAK STAGE			6.80	Dec 28	a7.59	Sep 25 1996
INSTANTANEOUS LOW FLOW			b.18	Mar 14	c.18	Mar 8 1999
ANNUAL RUNOFF (AC-FT)	4670		5010		3020	
10 PERCENT EXCEEDS	16		17		8.5	
50 PERCENT EXCEEDS	4.0		4.1		2.6	
90 PERCENT EXCEEDS	.93		1.2		1.0	

See Period of Record; partial years used in monthly summary statistics
a Backwater caused by culvert which was removed April 1998
b March 14 and 15, 2000
c March 8, 1999 and March 14 and 15, 2000

15055500 ANTLER RIVER BELOW ANTLER LAKE NEAR AUKE BAY

LOCATION.--Lat 58°51′07″, long 134°42′31″, in NE¼ SE¼ NE¼ sec. 10, T. 35 S., R. 64 E. (Juneau D-3 quad), Hydrologic Unit l9010301, in Tongass National Forest, 200 ft below outlet of Antler Lake, 10 mi northeast of Berners Bay, and located 32 mi northwest of Auke Bay.

DRAINAGE AREA.--26.0 mi^2, approximately.

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

GAGE.--Water-stage recorder. Elevation of gage is 80 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	149	37	157	39	e19	e41	e70	196	375	311	140
2	104	169	38	122	37	e20	e46	e75	220	320	275	127
3	107	141	37	100	34	e21	e43	e81	250	297	251	114
4	106	121	37	86	32	e22	e42	e88	266	318	246	128
5	103	107	36	75	30	e22	e41	e93	283	372	263	206
6	111	93	36	69	28	e21	e39	e98	324	413	280	268
7	133	84	35	64	27	e20	e40	e105	334	399	277	358
8	155	79	34	60	26	e20	e42	e112	326	370	257	294
9	148	75	32	55	25	e19	e40	e122	316	383	227	245
10	146	71	31	50	e24	e19	e38	129	323	381	218	198
11	139	69	30	45	e22	e18	e36	131	346	344	214	207
12	142	65	29	41	e22	e18	e35	142	340	303	200	208
13	140	60	28	38	e21	e17	e34	143	363	271	184	207
14	140	57	27	36	e21	e17	e33	141	347	251	183	316
15	125	54	26	33	e20	e18	e33	132	330	236	266	339
16	163	56	27	32	e20	e18	e32	129	319	240	292	315
17	219	63	27	30	e19	e19	e34	128	325	257	256	543
18	212	60	26	29	e19	e20	e37	138	312	275	222	543
19	357	58	27	28	e20	e21	e39	148	292	296	210	386
20	379	58	34	27	e21	e22	e42	147	285	334	222	277
21	301	56	41	25	e22	e23	e44	136	293	324	234	210
22	286	55	57	25	e22	e24	e45	139	281	315	260	166
23	260	53	76	24	e21	e26	e46	144	252	363	304	141
24	250	51	159	23	e21	e27	e47	134	260	424	263	132
25	208	49	272	23	e20	e28	e48	121	304	406	216	130
26	181	47	396	23	e20	e30	e50	112	350	345	203	132
27	157	44	701	29	e20	e31	e53	115	408	309	190	136
28	138	41	803	37	e20	e34	e56	133	433	294	171	162
29	120	39	484	38	e19	e33	e60	166	497	305	158	233
30	106	37	305	38	---	e33	e65	181	448	316	151	207
31	95	---	213	39	---	e32	---	185	---	314	147	---
TOTAL	5340	2161	4141	1501	692	712	1281	3918	9623	10150	7151	7068
MEAN	172	72.0	134	48.4	23.9	23.0	42.7	126	321	327	231	236
MAX	379	169	803	157	39	34	65	185	497	424	311	543
MIN	95	37	26	23	19	17	32	70	196	236	147	114
AC-FT	10590	4290	8210	2980	1370	1410	2540	7770	19090	20130	14180	14020
CFSM	6.63	2.77	5.14	1.86	.92	.88	1.64	4.86	12.3	12.6	8.87	9.06
IN.	7.64	3.09	5.92	2.15	.99	1.02	1.83	5.61	13.77	14.52	10.23	10.11

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY) #

MEAN	172	61.1	86.8	32.3	20.4	19.1	49.1	151	315	272	214	236
MAX	240	72.0	134	48.4	25.8	23.0	55.8	204	330	327	231	271
(WY)	1999	2000	2000	2000	1998	2000	1999	1998	1999	2000	2000	1999
MIN	104	50.8	33.9	21.2	11.5	14.6	42.7	123	290	215	189	207
(WY)	1998	1999	1999	1999	1999	1999	2000	1999	1998	1998	1998	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000 #	
ANNUAL TOTAL	51602.0		53738			
ANNUAL MEAN	141		147		136	
HIGHEST ANNUAL MEAN					147	2000
LOWEST ANNUAL MEAN					124	1998
HIGHEST DAILY MEAN	941	Sep 23	803	Dec 28	993	Oct 20 1998
LOWEST DAILY MEAN	7.8	Mar 9	a17	Mar 13	7.8	Mar 9 1999
ANNUAL SEVEN-DAY MINIMUM	8.0	Mar 5	18	Mar 10	8.0	Mar 5 1999
INSTANTANEOUS PEAK FLOW			924	Dec 28	b1300	Oct 20 1998
INSTANTANEOUS PEAK STAGE			33.32	Dec 28	34.07	Oct 20 1998
ANNUAL RUNOFF (AC-FT)	102400		106600		98480	
ANNUAL RUNOFF (CFSM)	5.44		5.65		5.23	
ANNUAL RUNOFF (INCHES)	73.83		76.89		71.04	
10 PERCENT EXCEEDS	311		325		324	
50 PERCENT EXCEEDS	103		112		121	
90 PERCENT EXCEEDS	12		22		21	

\# See Period of Record; partial years used in monthly summary statistics
a Mar. 13 to Mar. 14
b From rating curve extended above 600 ft^3/s on basis of slope-area measurement at gage height, 34.07 ft
e Estimated

15056030 KAKUHAN CREEK NEAR HAINES

LOCATION.--Lat 59°00′19″, long 135°11′02″, in SW¼ NE¼ SE¼ sec. 14, T. 33 S., R. 61 E. (Skagway A-1 quad), Hydrologic Unit l9010301, in Tongass National Forest, about 200 ft upstream from mouth on west side of Lynn Canal, 19 mi southeast of Haines, and 60 mi northwest of Juneau.

DRAINAGE AREA.--1.53 mi^2

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 25 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 100 ft^3/s, which are poor.

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	6.9	8.7	e1.3	e3.2	1.7	1.2	1.4	3.1	11	27	33	8.6
2	6.1	4.6	1.5	e2.8	e1.2	1.3	1.3	3.2	13	19	24	7.1
3	6.1	3.8	1.5	e2.2	e.96	1.5	1.7	3.8	15	20	23	6.6
4	5.4	3.4	1.5	e2.0	e.86	1.3	1.3	3.5	16	32	26	24
5	6.8	3.3	1.5	e1.8	e.80	1.1	.98	4.4	18	38	29	17
6	9.6	3.2	1.6	e1.9	e.77	1.0	.91	5.2	24	38	25	30
7	9.7	3.1	1.4	e2.2	e.73	e.95	.79	6.0	21	30	24	18
8	7.7	3.2	1.3	2.3	e.69	e.90	.76	6.1	18	33	21	14
9	6.5	3.3	1.2	2.2	e.66	e.87	.73	7.1	18	36	17	10
10	6.6	3.2	1.3	2.0	e.64	e.85	.63	8.4	22	32	17	9.4
11	6.2	3.0	1.4	e1.7	e.62	e.82	.60	9.1	23	27	17	12
12	7.7	3.1	1.2	e1.4	e.60	e.80	.65	8.1	23	24	16	8.9
13	6.8	2.9	e1.1	e1.2	e.59	e.76	.71	7.2	27	19	17	11
14	5.8	2.6	e.96	e1.1	e.58	e.72	.68	5.9	24	18	26	17
15	5.1	2.4	e.91	e1.0	e.56	e.71	.75	5.0	17	18	63	9.3
16	9.2	2.6	e.85	e1.0	e.55	.83	.80	4.7	17	19	40	35
17	7.5	3.5	e.83	e.95	e.69	.88	.72	4.9	18	26	28	50
18	12	2.7	.80	e.86	1.3	1.1	.68	5.7	15	26	20	24
19	19	2.4	1.1	e.82	1.5	1.0	.69	5.8	13	28	18	14
20	9.6	2.4	2.2	e.80	1.9	1.0	1.6	5.4	13	39	30	11
21	9.0	2.1	2.7	e.75	1.6	1.0	2.1	4.9	12	28	27	8.6
22	7.8	2.0	4.9	e.74	1.4	1.1	1.6	5.3	11	44	31	7.6
23	8.4	2.0	5.5	e.73	1.4	1.1	1.2	4.9	13	52	22	8.5
24	7.5	1.9	9.3	e.71	1.4	1.2	1.0	4.5	20	46	15	11
25	6.6	1.7	14	e.71	1.4	1.5	1.0	4.5	23	37	14	12
26	5.8	1.7	20	e.90	1.4	3.9	1.5	5.2	29	34	14	12
27	5.3	1.5	59	e1.1	1.4	3.1	1.6	7.2	35	31	12	11
28	5.4	e1.4	19	1.6	1.2	1.4	2.1	7.9	41	36	11	22
29	4.7	e1.3	7.8	1.6	1.2	1.0	2.5	8.6	45	30	9.6	17
30	4.3	e1.2	5.2	1.9	---	1.2	3.0	8.1	33	27	10	9.3
31	4.1	---	3.9	2.0	---	1.3	---	9.2	---	45	10	---
TOTAL	229.2	84.2	176.75	46.17	30.30	37.39	35.98	182.9	628	959	689.6	455.9
MEAN	7.39	2.81	5.70	1.49	1.04	1.21	1.20	5.90	20.9	30.9	22.2	15.2
MAX	19	8.7	59	3.2	1.9	3.9	3.0	9.2	45	52	63	50
MIN	4.1	1.2	.80	.71	.55	.71	.60	3.1	11	18	9.6	6.6
AC-FT	455	167	351	92	60	74	71	363	1250	1900	1370	904
CFSM	4.83	1.83	3.73	.97	.68	.79	.78	3.86	13.7	20.2	14.5	9.93
IN.	5.57	2.05	4.30	1.12	.74	.91	.87	4.45	15.27	23.32	16.77	11.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY) #

MEAN	9.01	3.42	3.90	1.27	1.16	1.31	2.49	7.28	22.2	30.9	27.5	18.5
MAX	14.9	4.16	5.70	1.49	1.28	1.76	3.85	10.7	25.2	37.5	37.0	23.8
(WY)	1999	1999	2000	2000	1998	1999	1999	1998	1999	1999	1999	1999
MIN	4.70	2.81	2.82	1.12	1.04	.96	1.20	5.25	20.9	27.0	22.2	13.4
(WY)	1998	2000	1999	1998	2000	1998	2000	1999	2000	1997	2000	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000 #	
ANNUAL TOTAL	4671.26		3555.39			
ANNUAL MEAN	12.8		9.71		10.9	
HIGHEST ANNUAL MEAN					13.3	1999
LOWEST ANNUAL MEAN					9.66	1998
HIGHEST DAILY MEAN	152	Sep 22	63	Aug 15	152	Sep 22 1999
LOWEST DAILY MEAN	.66	Mar 6	.55	Feb 16	.55	Feb 16 2000
ANNUAL SEVEN-DAY MINIMUM	.81	Mar 2	.59	Feb 10	.59	Feb 10 2000
INSTANTANEOUS PEAK FLOW			a130	Dec 27	a415	Aug 31 1998
INSTANTANEOUS PEAK STAGE			8.28	Dec 27	8.77	Aug 31 1998
ANNUAL RUNOFF (AC-FT)	9270		7050		7890	
ANNUAL RUNOFF (CFSM)	8.36		6.35		7.12	
ANNUAL RUNOFF (INCHES)	113.58		86.44		96.73	
10 PERCENT EXCEEDS	40		27		32	
50 PERCENT EXCEEDS	5.2		4.8		5.6	
90 PERCENT EXCEEDS	1.1		.80		1.0	

\# See Period of Record; partial years used in monthly statistics
a From rating curve extended above 51 ft^3/s.
e Estimated

15056030 KAKUHAN CREEK NEAR HAINES--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August 1998 to current year.

INSTRUMENTATION.-- Electronic water-temperature recorder set for 15-minute recording interval.

REMARKS.-- Records represent water temperature at the sensor within 0.5°C.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 15.0°C, August 1-2, 1999; minimum, 0.0°C, on many days during winter.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 13.0°C, August 11; minimum, 0.0°C, on many days during winter.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	6.5	6.0	6.0	4.0	2.0	3.5	.0	.0	.0	.0	.0	.0
2	6.5	6.0	6.5	2.0	1.0	1.5	.5	.0	.0	.0	.0	.0
3	7.0	6.0	6.5	1.0	.5	1.0	.5	.5	.5	.0	.0	.0
4	6.5	5.5	6.0	2.0	.5	1.5	1.0	.5	.5	.0	.0	.0
5	7.0	6.0	6.5	3.0	2.0	2.5	1.0	.5	1.0	.0	.0	.0
6	7.0	6.0	6.5	2.5	2.0	2.5	.5	.0	.0	.0	.0	.0
7	6.0	5.5	5.5	2.0	1.0	1.5	1.0	.0	.5	.5	.0	.5
8	6.5	5.5	5.5	2.5	1.5	2.0	1.0	.5	1.0	.5	.0	.0
9	5.5	4.5	5.0	2.5	1.5	2.0	.5	.0	.5	.0	.0	.0
10	5.0	4.0	4.5	2.5	1.5	2.5	1.0	.0	.5	.0	.0	.0
11	5.0	4.5	4.5	3.0	1.0	2.0	1.0	1.0	1.0	.0	.0	.0
12	5.0	4.0	4.5	3.5	3.0	3.0	1.0	.0	.5	.0	.0	.0
13	5.5	4.0	5.0	3.0	2.5	3.0	.0	.0	.0	.0	.0	.0
14	5.0	3.5	4.0	3.0	2.5	2.5	.0	.0	.0	.0	.0	.0
15	4.0	2.0	3.5	2.5	1.0	2.0	.0	.0	.0	.0	.0	.0
16	6.0	2.0	5.0	1.5	.5	1.0	.0	.0	.0	.0	.0	.0
17	6.5	5.5	6.0	3.0	1.5	2.5	.0	.0	.0	.0	.0	.0
18	7.5	6.0	6.5	2.5	2.0	2.5	.0	.0	.0	.5	.0	.0
19	6.5	5.0	6.0	2.0	1.5	2.0	.0	.0	.0	.5	.0	.5
20	5.5	4.0	4.5	2.5	2.0	2.5	.5	.0	.0	.5	.5	.5
21	5.5	2.0	4.0	2.5	1.5	2.5	1.5	.5	1.0	.5	.5	.5
22	5.5	4.5	5.0	2.0	1.0	1.5	2.5	1.5	2.0	.5	.5	.5
23	4.5	3.5	4.0	2.5	2.0	2.0	3.5	2.5	3.0	.5	.5	.5
24	5.0	4.0	4.5	2.0	1.0	1.5	3.5	1.5	2.5	.5	.5	.5
25	4.5	3.5	4.0	1.0	.5	1.0	3.5	.5	2.5	.5	.0	.5
26	4.0	2.5	3.0	1.0	.5	1.0	4.5	3.5	4.0	.5	.0	.5
27	3.0	1.5	2.0	.5	.0	.0	3.5	3.0	3.5	.5	.5	.5
28	3.5	2.0	3.0	.0	.0	.0	3.5	1.5	3.0	.5	.0	.0
29	2.0	1.0	1.5	.0	.0	.0	1.5	1.0	1.0	.5	.0	.0
30	2.5	1.5	2.0	.0	.0	.0	1.0	.0	.0	.5	.5	.5
31	3.0	1.5	2.5	---	---	---	.0	.0	.0	1.0	.0	.5
MONTH	7.5	1.0	4.6	4.0	.0	1.8	4.5	.0	.9	1.0	.0	.2

15056030 KAKUHAN CREEK NEAR HAINES--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	1.5	.5	1.0	2.5	1.5	2.0	5.5	3.5	4.0
2	.5	.0	.0	1.0	1.0	1.0	2.5	1.5	2.0	6.5	3.5	4.5
3	.5	.0	.0	1.5	1.0	1.0	3.0	2.0	2.5	5.0	4.0	4.5
4	.5	.0	.5	1.5	1.0	1.0	2.5	1.5	2.0	6.0	3.5	4.5
5	.5	.0	.5	1.0	.0	.5	2.5	2.0	2.0	6.0	4.0	5.0
6	.5	.0	.5	.5	.0	.0	2.5	2.0	2.0	6.5	3.5	5.0
7	.5	.5	.5	.0	.0	.0	2.0	1.0	1.5	6.5	4.0	5.0
8	1.0	.5	.5	.0	.0	.0	2.5	1.0	2.0	6.5	3.0	4.5
9	.5	.0	.0	.0	.0	.0	2.5	1.5	2.0	7.5	4.0	5.0
10	.0	.0	.0	.0	.0	.0	2.0	.5	1.5	8.0	4.0	5.0
11	.0	.0	.0	.0	.0	.0	2.5	1.5	2.0	7.5	4.5	5.5
12	.0	.0	.0	.0	.0	.0	3.5	1.5	2.5	7.0	4.0	5.0
13	.5	.0	.0	.0	.0	.0	2.5	1.5	2.0	6.5	4.5	5.0
14	.0	.0	.0	.5	.0	.5	2.5	.5	1.5	5.0	4.0	4.5
15	.0	.0	.0	1.0	.5	.5	3.5	2.0	2.5	6.0	4.0	5.0
16	.5	.0	.0	1.5	.5	1.0	2.5	1.0	2.0	6.0	4.0	5.0
17	.5	.0	.5	1.5	1.0	1.5	3.0	1.5	2.5	6.5	4.5	5.5
18	1.0	.0	.5	2.0	1.0	1.5	3.0	2.5	3.0	6.5	4.5	5.5
19	1.0	.5	1.0	2.0	1.0	1.5	4.0	2.5	3.0	6.5	4.5	5.0
20	1.0	.5	1.0	2.0	1.5	1.5	3.5	3.0	3.0	5.0	3.5	4.5
21	1.0	.5	1.0	2.5	1.5	2.0	4.0	3.0	3.5	5.0	3.5	4.5
22	.5	.5	.5	1.5	1.0	1.5	4.0	2.5	3.0	6.5	4.5	5.0
23	1.0	.5	.5	2.0	1.5	1.5	3.0	1.0	2.0	5.5	4.0	4.5
24	1.0	1.0	1.0	2.0	1.0	1.5	3.5	2.0	2.5	6.0	3.5	4.5
25	1.0	.5	1.0	2.5	2.0	2.0	4.5	2.5	3.5	6.0	3.5	4.5
26	1.0	.5	1.0	2.0	1.5	1.5	5.0	3.0	4.0	8.5	4.5	5.5
27	1.0	.5	1.0	2.0	.5	1.5	4.5	2.5	3.5	8.5	4.5	6.0
28	.5	.0	.0	1.5	.5	1.0	5.5	3.0	4.0	7.0	4.5	5.5
29	.5	.0	.5	1.5	1.0	1.0	4.5	3.5	4.0	6.0	4.5	5.0
30	---	---	---	2.5	1.5	2.0	4.5	3.0	3.5	8.0	4.0	5.5
31	---	---	---	2.0	.0	1.0	---	---	---	8.0	4.5	6.0
MONTH	1.0	.0	.4	2.5	.0	.9	5.5	.5	2.6	8.5	3.0	5.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.0	4.5	6.0	8.5	5.0	6.5	10.5	6.5	8.5	8.5	5.5	7.0
2	8.5	5.0	6.5	8.0	6.5	7.0	11.5	6.5	8.5	8.0	4.5	6.0
3	9.0	5.0	6.5	11.0	6.5	8.5	11.5	7.5	9.5	7.5	5.0	6.5
4	8.5	4.5	6.0	11.5	6.5	9.0	11.0	9.0	10.0	8.0	7.0	7.5
5	9.0	5.0	6.5	11.5	7.0	8.5	12.0	9.0	10.0	9.0	7.5	8.0
6	6.5	5.5	6.0	9.0	7.0	7.5	9.5	8.5	9.0	9.0	6.5	7.5
7	6.5	5.5	6.0	10.0	6.5	8.0	12.5	8.0	9.5	9.0	6.0	7.0
8	7.5	5.0	6.0	12.0	6.5	9.0	9.5	8.0	9.0	7.0	5.5	6.5
9	8.5	5.0	6.5	10.5	8.0	9.0	12.5	8.0	9.5	9.5	5.0	7.0
10	9.0	5.5	7.0	8.5	7.0	8.0	12.0	8.0	9.5	8.5	6.0	7.0
11	7.5	5.5	6.5	8.0	7.0	7.5	13.0	7.5	9.5	8.5	6.5	7.5
12	10.0	5.5	7.5	8.5	6.5	7.5	11.5	8.5	9.5	8.0	7.0	7.5
13	7.0	6.0	6.5	10.5	6.5	8.0	10.5	8.0	9.0	7.5	6.0	7.0
14	7.0	5.5	6.0	10.5	7.5	8.5	9.0	8.0	8.5	7.5	6.0	6.5
15	7.5	5.0	6.0	9.5	8.0	8.5	8.5	7.5	8.0	7.0	5.5	6.0
16	6.0	5.5	5.5	10.0	7.5	8.5	10.5	7.0	8.5	8.0	5.5	6.0
17	6.5	5.5	6.0	9.0	8.0	8.5	12.0	7.0	8.5	8.5	7.5	8.0
18	8.0	5.5	6.0	9.5	7.5	8.5	11.0	7.0	8.5	8.0	6.0	7.5
19	6.5	5.5	6.0	9.0	7.0	8.0	9.0	8.0	8.5	7.0	5.0	6.0
20	8.0	5.5	6.5	9.0	6.5	7.5	9.0	7.0	8.0	8.0	5.0	6.0
21	7.0	5.0	5.5	9.0	6.5	8.0	8.5	7.5	8.0	7.5	4.5	5.5
22	8.5	5.0	6.5	9.0	8.0	8.5	9.0	7.0	8.0	7.5	5.5	6.5
23	10.5	5.0	7.0	9.0	7.5	8.0	8.0	6.5	7.0	10.0	7.5	8.5
24	11.0	6.0	8.0	9.5	7.0	8.0	8.5	6.0	7.5	9.5	9.0	9.0
25	9.0	6.5	7.5	8.5	7.0	7.5	8.5	7.0	7.5	9.5	9.0	9.0
26	11.0	7.0	8.5	9.5	6.5	8.0	10.5	7.0	8.5	9.5	7.5	8.5
27	10.0	7.5	8.0	10.0	7.5	8.5	8.0	7.0	7.5	8.0	7.0	7.5
28	11.0	6.0	8.0	9.0	7.5	8.5	11.5	6.0	8.5	8.0	7.0	7.5
29	9.0	5.5	6.5	10.5	7.5	8.5	10.0	6.5	8.0	7.0	2.5	4.5
30	6.0	5.0	5.5	9.5	6.5	8.5	9.5	8.0	8.5	2.5	1.0	1.5
31	---	---	---	10.0	7.5	8.5	10.0	7.5	8.5	---	---	---
MONTH	11.0	4.5	6.6	12.0	5.0	8.1	13.0	6.0	8.6	10.0	1.0	6.9

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS

LOCATION.--Lat 58°26′37″, long 135°36′01″, in SW¼ SE¼ SE¼ sec. 36, T. 39 S., R. 59 E. (Juneau B-5 quad), Hydrologic Unit l9010302, in Glacier Bay National Park and Preserve, 1.7 miles above the mouth at Icy Passage, 4.5 mi east of Gustavis, and 44 mi west of Juneau.

DRAINAGE AREA.--10.1 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 560 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 130 ft^3/s, which are poor

EXTREMES FOR CURRENT YEAR.--

Water year 1999.-- Maximum discharge for period August through September, 661 ft^3/s September 18, gage height 29.54 ft, from rating curve extended above 130 ft^3/s; minimum 39 ft^3/s September 1-2.

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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	---	---	---	---	---	---	---	---	---	‡62	---	42
2	---	---	---	---	---	---	---	---	---	---	---	40
3	---	---	---	---	---	---	---	---	---	---	---	92
4	---	---	---	---	---	---	---	---	---	---	---	60
5	---	---	---	---	---	---	---	---	---	---	---	49
6	---	---	---	---	---	---	---	---	---	---	---	46
7	---	---	---	---	---	---	---	---	---	---	---	74
8	---	---	---	---	---	---	---	---	---	---	---	90
9	---	---	---	---	---	---	---	---	---	---	---	69
10	---	---	---	---	---	---	---	---	---	---	---	58
11	---	---	---	---	---	---	---	---	---	---	---	56
12	---	---	---	---	---	---	---	---	---	---	---	73
13	---	---	---	---	---	---	---	---	---	---	---	59
14	---	---	---	---	---	---	---	---	---	---	---	59
15	---	---	---	---	---	---	---	---	---	---	---	78
16	---	---	---	---	---	---	---	---	---	---	---	132
17	---	---	---	---	---	---	---	---	---	---	---	199
18	---	---	---	---	---	---	---	---	---	---	---	388
19	---	---	---	---	---	---	---	---	---	---	---	332
20	---	---	---	---	---	---	---	---	---	---	---	206
21	---	---	---	---	---	---	---	---	‡85	---	---	158
22	---	---	---	---	---	---	---	---	---	---	---	292
23	---	---	---	---	---	---	---	---	---	---	---	408
24	---	---	---	---	---	---	---	---	---	---	---	280
25	---	---	---	---	---	---	---	---	---	---	‡68	163
26	---	---	---	---	---	---	---	---	---	‡71	56	109
27	---	---	---	---	---	---	---	---	---	---	47	75
28	---	---	---	---	---	---	---	---	---	---	95	54
29	---	---	---	---	---	---	---	---	---	---	60	44
30	---	---	---	---	---	---	---	---	---	‡72	57	46
31	---	---	---	---	---	---	---	---	---	---	54	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	3831
MEAN	---	---	---	---	---	---	---	---	---	---	---	128
MAX	---	---	---	---	---	---	---	---	---	---	---	408
MIN	---	---	---	---	---	---	---	---	---	---	---	40
MED	---	---	---	---	---	---	---	---	---	---	---	74
AC-FT	---	---	---	---	---	---	---	---	---	---	---	7600
CFSM	---	---	---	---	---	---	---	---	---	---	---	12.6
IN.	---	---	---	---	---	---	---	---	---	---	---	14.11

‡ Result of discharge measurement

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS--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	58	515	e17	45	e22	11	45	109	104	150	48	20
2	96	90	16	e35	e13	e20	46	107	112	83	39	19
3	87	51	16	e29	e13	e27	54	81	115	68	35	18
4	81	39	18	e25	e12	17	39	72	121	61	31	163
5	85	34	17	e23	e11	14	40	67	128	56	42	113
6	85	31	19	e25	e10	e11	38	62	132	54	38	167
7	114	31	17	e24	e9.5	e9.0	30	62	150	49	35	169
8	140	33	15	e24	e9.0	e7.0	31	64	128	43	70	123
9	115	29	e14	e22	e8.5	e6.0	30	70	109	41	55	105
10	82	26	e14	e20	e8.0	e5.0	24	85	101	39	39	69
11	65	28	e14	e18	e7.8	e7.0	21	114	102	43	34	126
12	90	27	e13	e16	e7.5	e9.0	24	122	99	38	30	86
13	161	25	e11	e15	e7.0	10	24	104	104	33	27	86
14	130	25	e11	e14	e6.6	10	22	85	126	30	61	261
15	91	26	e10	e13	e6.5	11	24	74	141	74	84	206
16	259	56	e10	e12	e6.0	14	26	70	179	116	90	296
17	252	37	e9.8	e11	e7.0	26	25	78	165	103	64	252
18	166	34	e9.5	e10	e8.0	26	37	112	151	90	48	146
19	300	166	e9.5	e10	11	21	33	145	128	98	54	92
20	209	61	191	e9.5	e24	32	44	124	117	179	161	68
21	159	41	108	e9.0	e18	32	44	95	112	98	139	49
22	152	49	128	e8.5	13	27	49	106	95	105	172	40
23	138	39	127	e8.0	12	26	37	115	79	178	158	49
24	102	30	276	e8.0	12	28	33	95	75	157	88	67
25	76	28	510	e9.0	12	45	33	76	72	101	60	42
26	83	24	367	e12	12	65	34	66	68	75	49	39
27	89	e21	1110	e15	12	42	35	70	68	64	41	36
28	73	e18	548	e28	11	26	56	81	108	63	39	48
29	55	e17	184	e19	11	21	72	100	128	57	29	57
30	41	e17	91	e20	---	36	85	99	100	51	27	39
31	109	---	59	e42	---	64	---	99	---	55	23	---
TOTAL	3743	1648	3959.8	579.0	320.4	705.0	1135	2809	3417	2452	1910	3051
MEAN	121	54.9	128	18.7	11.0	22.7	37.8	90.6	114	79.1	61.6	102
MAX	300	515	1110	45	24	65	85	145	179	179	172	296
MIN	41	17	9.5	8.0	6.0	5.0	21	62	68	30	23	18
MED	96	31	17	16	11	21	34	85	112	64	48	78
AC-FT	7420	3270	7850	1150	636	1400	2250	5570	6780	4860	3790	6050
CFSM	12.0	5.44	12.6	1.85	1.09	2.25	3.75	8.97	11.3	7.83	6.10	10.1
IN.	13.79	6.07	14.58	2.13	1.18	2.60	4.18	10.35	12.59	9.03	7.03	11.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY) #

MEAN	---	---	---	---	---	---	---	---	---	---	---	115
MAX	---	---	---	---	---	---	---	---	---	---	---	128
(WY)	---	---	---	---	---	---	---	---	---	---	---	1999
MIN	---	---	---	---	---	---	---	---	---	---	---	102
(WY)	---	---	---	---	---	---	---	---	---	---	---	2000

SUMMARY STATISTICS	FOR 2000 WATER YEAR	
ANNUAL TOTAL	25729.2	
ANNUAL MEAN	70.3	
HIGHEST ANNUAL MEAN		
LOWEST ANNUAL MEAN		
HIGHEST DAILY MEAN	1110	Dec 27
LOWEST DAILY MEAN	5.0	Mar 10
ANNUAL SEVEN-DAY MINIMUM	6.9	Feb 11
INSTANTANEOUS PEAK FLOW	a 1650	Dec 27
INSTANTANEOUS PEAK STAGE	30.52	Dec 27
ANNUAL RUNOFF (AC-FT)	51030	
ANNUAL RUNOFF (CFSM)	6.96	
ANNUAL RUNOFF (INCHES)	94.76	
10 PERCENT EXCEEDS	145	
50 PERCENT EXCEEDS	44	
90 PERCENT EXCEEDS	11	

\# See Period of Record, partial years used in monthly statistics
a From rating curve extended above 130 ft^3/s
e Estimated

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1999 to September 2000.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1999 to September 2000.

INSTRUMENTATION.-- Electronic water-temperature recorder set for 1-hour recording interval.

REMARKS.--Records represent water temperature at the sensor within 0.5ºC. Temperature at the sensor was compared with the stream average by cross sections on Dec 13. Temperature cross sections found no variation. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 10.5ºC, July 8, Aug, 2, 5, 9-11; minimum, 0.0ºC, on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	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)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
OCT											
14...	1115	9	9	46.9	--	28.34	121	10	3044	105	8.0
DEC											
09...	1230	9	9	33.8	--	27.51	14	10	3044	130	7.4
13...	1216	9	9	40.0	.00	27.58	11	--	--	130	--
13...	1217	9	9	40.0	10.0	27.58	11	--	--	130	--
13...	1218	9	9	40.0	15.0	27.58	11	--	--	130	--
13...	1219	9	9	40.0	20.0	27.58	11	--	--	130	--
13...	1220	9	9	40.0	25.0	27.58	11	--	--	130	--
13...	1221	9	9	40.0	30.0	27.58	11	--	--	130	--
FEB											
02...	1240	9	9	--	--	27.52	13	10	3044	102	7.8
MAR											
10...	1207	9	9	31.0	--	27.41	5.0	10	3044	130	8.1
APR											
25...	1200	9	9	--	--	27.71	33	10	3044	110	8.1
JUL											
10...	1420	9	9	41.6	--	27.84	42	10	3044	125	8.0

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT											
14...	4.5	5.0	--	--	--	56	62	76	62	1	.33
DEC											
09...	.0	1.0	730	13.7	101	80	60	74	60	1	.04
13...	-2.5	1.0	--	--	--	--	--	--	--	--	--
13...	-2.5	1.0	--	--	--	--	--	--	--	--	--
13...	-2.5	1.0	--	--	--	--	--	--	--	--	--
13...	-2.5	1.0	--	--	--	--	--	--	--	--	--
13...	-2.5	1.0	--	--	--	--	--	--	--	--	--
13...	-2.5	1.0	--	--	--	--	--	--	--	--	--
FEB											
02...	1.0	.0	750	14.3	99	64	48	59	48	2	.07
MAR											
10...	-3.5	.0	--	14.0	--	90	63	77	63	<1	--
APR											
25...	--	3.0	--	--	--	--	52	64	52	8	.72
JUL											
10...	11.0	8.0	745	11.4	98	78	65	79	65	6	.67

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEARS OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.0	6.5	6.5	3.0	2.5	3.0	1.0	.0	.0	1.0	.0	.5
2	7.0	6.5	7.0	2.5	2.0	2.5	1.0	.5	1.0	.0	.0	.0
3	7.0	6.5	7.0	2.0	2.0	2.0	1.5	1.0	1.5	.0	.0	.0
4	7.0	6.0	6.5	2.5	2.0	2.5	1.5	1.0	1.0	.0	.0	.0
5	7.5	6.5	7.0	3.0	2.5	3.0	1.5	1.0	1.5	.0	.0	.0
6	7.0	6.5	7.0	3.5	3.0	3.0	1.5	.5	1.0	.0	.0	.0
7	6.5	6.5	6.5	3.5	3.0	3.0	1.0	.5	1.0	1.0	.0	.5
8	6.5	6.0	6.5	3.5	3.0	3.5	1.0	.5	1.0	1.0	.0	.0
9	6.0	5.5	6.0	3.5	3.0	3.5	---	---	---	.0	.0	.0
10	6.0	5.5	5.5	3.5	2.5	3.0	---	---	---	.0	.0	.0
11	6.0	5.0	5.5	3.5	3.0	3.0	---	---	---	.0	.0	.0
12	5.5	5.5	5.5	4.0	3.5	3.5	---	---	---	.0	.0	.0
13	6.0	5.5	5.5	3.5	3.0	3.5	---	---	---	.0	.0	.0
14	5.5	4.5	5.0	3.5	3.0	3.5	.0	.0	.0	.0	.0	.0
15	5.0	4.5	4.5	3.0	2.5	2.5	.0	.0	.0	.0	.0	.0
16	6.5	4.5	5.5	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
17	6.0	5.5	6.0	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
18	7.0	6.0	6.5	3.0	2.5	2.5	.0	.0	.0	.0	.0	.0
19	7.0	6.0	6.5	3.5	3.0	3.5	.0	.0	.0	.0	.0	.0
20	6.0	5.0	5.5	3.0	3.0	3.0	.0	.0	.0	.0	.0	.0
21	6.0	4.5	5.0	3.0	2.5	3.0	.5	.0	.0	.0	.0	.0
22	5.5	5.0	5.5	2.5	2.0	2.5	1.5	.5	1.0	.0	.0	.0
23	5.5	5.0	5.0	2.5	2.0	2.5	2.0	1.5	2.0	.0	.0	.0
24	5.5	5.0	5.0	2.5	2.0	2.0	1.5	1.0	1.5	.0	.0	.0
25	5.5	4.5	5.0	2.0	.5	1.5	2.0	1.0	1.5	.0	.0	.0
26	4.5	4.0	4.5	2.0	1.0	1.5	2.5	2.0	2.5	.0	.0	.0
27	5.0	4.0	4.5	1.0	.0	.5	2.0	1.0	1.5	.0	.0	.0
28	4.5	3.5	4.0	.0	.0	.0	2.5	2.0	2.0	.0	.0	.0
29	3.5	3.0	3.5	.0	.0	.0	2.0	1.5	2.0	.0	.0	.0
30	3.0	2.5	3.0	.0	.0	.0	2.0	1.5	1.5	.0	.0	.0
31	3.0	2.0	2.5	---	---	---	1.5	1.0	1.0	.0	.0	.0
MONTH	7.5	2.0	5.5	4.0	.0	2.5	---	---	---	1.0	.0	.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	FEBRUARY			MARCH			APRIL			MAY		
1	.0	.0	.0	.5	.0	.5	2.0	.5	1.0	4.0	2.5	3.0
2	---	---	---	.0	.0	.0	---	---	---	4.5	2.5	3.5
3	.5	.0	.5	.0	.0	.0	2.5	1.0	1.5	4.5	2.5	3.5
4	.5	.0	.5	.5	.0	.5	2.0	1.0	1.5	5.0	2.0	3.5
5	.5	.5	.5	.5	.0	.0	2.5	1.0	1.5	4.5	2.0	3.5
6	.5	.0	.5	.0	.0	.0	1.5	.5	1.0	5.5	2.0	3.5
7	.5	.0	.5	.0	.0	.0	1.5	.5	1.0	5.0	2.5	3.5
8	.5	.0	.5	.0	.0	.0	1.5	.5	1.0	5.5	2.0	3.5
9	.0	.0	.0	.0	.0	.0	2.0	.5	1.0	5.5	2.5	4.0
10	.0	.0	.0	.0	.0	.0	2.0	.0	1.0	5.5	2.0	3.5
11	.0	.0	.0	.0	.0	.0	2.0	1.0	1.5	5.5	3.0	4.0
12	.0	.0	.0	.0	.0	.0	4.0	1.0	2.0	5.5	2.5	3.5
13	.0	.0	.0	.0	.0	.0	3.0	.0	1.0	5.0	2.5	4.0
14	.0	.0	.0	.0	.0	.0	3.5	.0	1.5	4.5	3.0	3.5
15	.0	.0	.0	.0	.0	.0	4.0	.5	2.0	4.5	3.0	4.0
16	.0	.0	.0	.5	.0	.5	4.0	1.0	2.0	4.5	3.0	4.0
17	.0	.0	.0	.5	.0	.0	3.0	1.5	2.0	5.5	3.5	4.5
18	.0	.0	.0	.5	.0	.5	2.5	2.0	2.0	5.0	3.5	4.0
19	.0	.0	.0	1.0	.5	.5	3.0	1.5	2.0	5.0	3.5	4.0
20	.0	.0	.0	.5	.0	.0	3.0	2.0	2.5	5.0	3.0	4.0
21	.0	.0	.0	.5	.0	.5	3.5	1.5	2.5	4.5	3.0	4.0
22	.0	.0	.0	1.0	.5	.5	3.5	1.0	2.5	4.5	3.5	4.0
23	.0	.0	.0	1.5	.5	1.0	3.0	1.0	2.0	4.5	3.5	4.0
24	.0	.0	.0	1.0	.0	.5	3.5	1.5	2.5	5.0	3.5	4.0
25	.0	.0	.0	1.0	.0	.5	4.5	1.5	3.0	5.5	3.0	4.0
26	.5	.0	.0	1.0	.0	.5	5.0	1.5	3.0	7.0	2.5	4.5
27	.5	.0	.0	1.0	.0	.5	4.0	1.5	2.5	6.5	3.0	5.0
28	.0	.0	.0	1.5	.0	.5	4.5	2.0	3.0	5.5	3.5	4.5
29	.5	.0	.5	1.5	.5	1.0	3.5	2.5	3.0	5.5	4.0	4.5
30	---	---	---	1.5	.5	1.0	4.5	2.5	3.5	6.5	3.5	5.0
31	---	---	---	1.0	.5	.5	---	---	---	7.0	3.0	5.0
MONTH	---	---	---	1.5	.0	.3	---	---	---	7.0	2.0	4.0

15057580 KAHTAHEENA RIVER ABOVE UPPER FALLS NEAR GUSTAVUS--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEARS OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	JUNE			JULY			AUGUST			SEPTEMBER		
1	7.5	3.5	5.5	8.0	7.5	7.5	10.0	8.0	9.0	9.5	7.0	8.0
2	7.5	3.5	5.5	8.0	6.5	7.5	10.5	7.0	8.5	9.0	6.0	7.0
3	7.5	3.5	5.5	8.5	6.5	7.5	10.0	8.5	9.0	7.5	5.5	7.0
4	7.5	3.5	5.5	9.5	6.5	8.0	10.0	8.5	9.5	9.5	7.5	8.5
5	7.0	4.0	5.5	8.5	7.5	8.0	10.5	9.0	9.5	9.0	8.5	9.0
6	5.5	4.5	5.0	8.5	7.0	7.5	9.5	9.0	9.5	9.0	8.0	8.5
7	5.5	4.5	5.0	8.0	7.5	8.0	10.0	8.5	9.5	8.5	7.5	8.0
8	6.0	4.5	5.0	10.5	6.5	8.5	10.0	8.0	9.0	8.0	6.5	7.5
9	6.5	4.0	5.0	9.0	7.5	8.0	10.5	7.5	9.0	8.0	6.0	7.0
10	8.0	4.5	6.0	8.5	7.5	8.0	10.5	8.0	9.5	7.5	6.0	7.0
11	6.5	5.0	5.5	9.5	7.5	8.5	10.5	8.0	9.0	8.5	7.5	8.0
12	9.0	4.5	6.5	10.0	7.5	8.5	9.0	8.5	9.0	8.0	7.5	7.5
13	6.5	5.0	5.5	8.5	6.5	8.0	9.5	8.0	8.5	8.0	7.5	7.5
14	6.0	5.0	5.5	8.5	7.5	8.0	10.0	8.5	9.0	8.0	7.5	7.5
15	5.5	5.0	5.0	9.0	8.0	8.5	10.0	9.0	9.5	7.5	6.5	7.0
16	6.5	4.5	5.5	9.5	8.5	9.0	9.5	9.0	9.0	8.0	6.5	7.0
17	6.0	5.5	5.5	9.5	8.5	9.0	10.0	8.0	9.0	8.0	7.5	8.0
18	5.5	5.0	5.5	9.0	8.5	8.5	9.5	7.5	8.5	8.0	7.0	7.5
19	6.0	5.0	5.5	9.5	8.0	8.5	9.5	8.5	9.0	7.0	6.0	6.5
20	6.5	5.5	6.0	9.5	8.5	9.0	10.0	9.0	9.5	7.0	5.5	6.5
21	6.5	5.0	5.5	8.5	7.5	8.0	10.0	8.5	9.0	6.5	5.0	6.0
22	7.0	5.0	6.0	9.5	8.0	8.5	9.5	9.0	9.0	7.5	6.0	6.5
23	8.5	4.5	6.5	9.5	8.5	9.0	9.0	8.0	8.5	8.5	7.0	8.0
24	9.0	5.0	7.5	10.0	8.5	9.0	8.5	7.5	8.0	9.0	8.5	8.5
25	8.5	6.0	7.5	9.0	7.5	8.5	9.0	7.5	8.0	9.0	8.0	8.5
26	9.0	6.5	8.0	9.0	7.5	8.5	9.0	8.0	8.5	8.5	8.0	8.5
27	9.0	7.0	8.0	9.0	8.0	8.5	8.5	8.0	8.0	9.0	7.5	8.0
28	9.5	7.0	8.0	9.5	8.5	9.0	9.5	7.5	8.5	8.5	8.0	8.0
29	9.0	7.0	8.0	9.5	8.5	9.0	9.5	6.5	8.0	8.5	6.5	7.0
30	8.0	5.5	6.5	9.0	8.0	8.5	9.5	8.5	9.0	6.5	4.5	6.0
31	---	---	---	10.0	9.0	9.5	10.0	7.0	8.0	---	---	---
MONTH	9.5	3.5	6.0	10.5	6.5	8.4	10.5	6.5	8.9	9.5	4.5	7.5

15057590 KAHTAHEENA RIVER NEAR GUSTAVUS

LOCATION.--Lat 58°25′24″, long 135°35′53″, in SE¼ NW¼ NE¼ sec. 12, T. 40 S., R. 59 E. (Juneau B-5 quad), Hydrologic Unit l9010302, in Glacier Bay National Park and Preserve, 1000 ft above the mouth at Icy Passage, 4.5 mi east of Gustavis, and 44 mi west of Juneau.

DRAINAGE AREA.--10.7 mi^2

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 35 ft above sea level, from topographic map. Prior to April 2000, at a site 800 ft downstream at a different datum.

REMARKS.--Records are poor.

REVISIONS.-- Revised daily discharges for September 1999, in cubic feet per second. These figures supersede those published in the reports for 1999.

Daily Discharges

Sept 1.....52	Sept 6.....54	Sept 11.....66	Sept 16...136	Sept 21....176	Sept 26....121
2.....46	7.....83	12.....83	17...198	22....303	27.....84
3....104	8....100	13.....65	18...385	23....402	28.....60
4.....69	9.....82	14.....60	19...351	24....281	29.....47
5.....52	10.....70	15.....75	20...236	25....170	30.....50

MONTH	TOTAL	MEAN	MAX	MIN	AC-FT	CFSM	IN
Sept 1999	4061	135	402	46	8050	12.7	14.12

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	64	531	19	52	24	13	54	120	104	161	e52	20
2	107	108	17	e40	e14	21	52	123	113	81	e46	17
3	99	64	17	e33	e14	29	65	91	116	66	e40	16
4	91	46	19	e28	e13	18	43	76	123	60	e36	173
5	95	38	18	e26	e12	15	44	66	130	57	e45	119
6	98	35	20	e27	e11	e12	43	60	134	55	e42	168
7	128	35	18	26	e10	e10	32	60	152	52	e40	170
8	154	37	16	26	e9.5	e8.0	36	61	132	48	e75	116
9	131	32	15	24	e9.0	e7.0	33	68	110	46	e60	105
10	94	28	15	e21	e8.7	e5.5	24	90	100	44	e45	66
11	74	30	e14	e19	e8.3	e8.0	21	115	102	48	e38	124
12	100	30	e13	e17	e7.8	e10	22	125	98	44	e34	82
13	176	27	13	e16	e7.3	11	25	108	100	39	e30	84
14	145	28	e12	e14	e7.0	11	20	91	122	36	e60	285
15	100	28	e11	e13	e6.7	12	23	77	137	73	e85	215
16	260	72	e11	e12	e6.4	15	27	70	178	118	e98	331
17	252	45	e11	e12	e8.0	26	25	78	169	104	66	286
18	168	37	e12	e11	e9.5	27	39	114	151	91	52	147
19	298	173	e19	e10	15	22	37	154	130	93	57	88
20	212	74	193	e9.5	26	35	45	133	120	193	175	67
21	158	48	123	e9.0	19	36	49	100	117	101	142	48
22	158	60	145	e8.5	14	28	53	109	100	104	175	40
23	143	50	139	e8.5	13	28	42	119	84	187	169	49
24	114	58	289	e9.0	13	29	37	99	78	159	87	70
25	94	32	525	e10	13	51	37	79	72	103	65	43
26	92	26	367	e12	14	79	38	63	67	79	53	39
27	97	22	1140	e16	14	48	40	67	67	71	47	36
28	83	20	523	e28	13	27	57	83	110	69	45	46
29	61	19	207	20	12	21	77	100	136	66	33	60
30	46	e18	114	21	---	40	88	101	100	59	29	40
31	113	---	76	47	---	77	---	100	---	e57	24	---
TOTAL	4005	1851	4131	625.5	352.2	779.5	1228	2900	3452	2564	2045	3150
MEAN	129	61.7	133	20.2	12.1	25.1	40.9	93.5	115	82.7	66.0	105
MAX	298	531	1140	52	26	79	88	154	178	193	175	331
MIN	46	18	11	8.5	6.4	5.5	20	60	67	36	24	16
AC-FT	7940	3670	8190	1240	699	1550	2440	5750	6850	5090	4060	6250
CFSM	12.1	5.77	12.5	1.89	1.14	2.35	3.83	8.74	10.8	7.73	6.17	9.81
IN.	13.92	6.44	14.36	2.17	1.22	2.71	4.27	10.08	12.00	8.91	7.11	10.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	116	42.4	79.2	19.6	9.96	22.2	54.1	106	114	73.4	64.4	120
MAX	129	61.7	133	20.2	12.1	25.1	67.3	118	115	82.7	66.0	135
(WY)	2000	2000	2000	2000	2000	2000	1999	1999	2000	2000	2000	1999
MIN	103	23.1	25.2	19.0	7.70	19.2	40.9	93.5	113	64.1	62.8	105
(WY)	1999	1999	1999	1999	1999	1999	2000	2000	1999	1999	1999	2000

e Estimated

15057590 KAHTAHEENA RIVER NEAR GUSTAVUS--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	28433.5		27083.2			
ANNUAL MEAN	77.9		74.0		68.7	
HIGHEST ANNUAL MEAN					74.0	2000
LOWEST ANNUAL MEAN					63.3	1999
HIGHEST DAILY MEAN	1140	Dec 27	1140	Dec 27	1140	Dec 27 1999
LOWEST DAILY MEAN	a 6.5	Feb 13	5.5	Mar 10	5.5	Mar 10 2000
ANNUAL SEVEN-DAY MINIMUM	6.8	Feb 11	7.4	Feb 11	6.8	Feb 11 1999
INSTANTANEOUS PEAK FLOW			b 1980	Dec 27	b 1980	Dec 27 1999
INSTANTANEOUS PEAK STAGE			c 22.18	Dec 27	c 22.18	Dec 27 1999
ANNUAL RUNOFF (AC-FT)	56400		53720		49740	
ANNUAL RUNOFF (CFSM)	7.28		6.92		6.42	
ANNUAL RUNOFF (INCHES)	98.85		94.16		87.18	
10 PERCENT EXCEEDS	152		151		140	
50 PERCENT EXCEEDS	60		49		47	
90 PERCENT EXCEEDS	9.3		12		11	

a Feb. 13-15 and Mar. 7-8
b From rating curve extended above 450 ft^3/s on basis of slope-area measurement of peak flow at gage height 21.67 ft, site and datum then in use.
c Site and datum then in use

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1999 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1998 to current year.

INSTRUMENTATION.-- Electronic water-temperature recorder set for 1-hour recording interval.

REMARKS.--Records represent water temperature at the sensor within 0.5ºC. Temperature at the sensor was compared with the stream average by cross sections on December 9. Temperature cross sections found no variation. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 13.5ºC, August 4-6, 1999; minimum, 0.0ºC, on many days during the winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 11.0ºC, July 8 and August 5, 9 to 11; minimum, 0.0ºC, on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	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)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
OCT											
14...	1115	9	9	43.6	--	18.65	142	10	--	103	8.0
DEC											
09...	1030	9	9	33.3	--	17.90	15	70	3044	132	7.3
09...	1045	9	9	33.3	5.00	17.91	15	--	--	--	--
09...	1046	9	9	33.3	10.0	17.91	15	--	--	--	--
09...	1047	9	9	33.3	15.0	17.91	15	--	--	--	--
09...	1048	9	9	33.3	20.0	17.91	15	--	--	--	--
09...	1049	9	9	33.3	25.0	17.91	15	--	--	--	--
09...	1050	9	9	33.3	30.0	17.91	15	--	--	--	--
FEB											
02...	1030	9	9	22.1	--	18.04	14	70	8010	103	7.8
JUN											
12...	1100	9	9	18.5	--	18.25	84	20	3044	120	6.8
AUG											
16...	1140	9	9	22.5	--	18.30	102	70	3044	100	7.7

15057590 KAHTAHEENA RIVER NEAR GUSTAVUS--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000--Continued

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
OCT											
14...	4.5	5.0	--	--	--	56	46	57	46	1	.38
DEC											
09...	1.0	1.0	748	13.8	99	96	62	75	62	1	.04
09...	1.0	1.0	--	--	--	--	--	--	--	--	--
09...	1.0	1.0	--	--	--	--	--	--	--	--	--
09...	1.0	1.0	--	--	--	--	--	--	--	--	--
09...	1.0	1.0	--	--	--	--	--	--	--	--	--
09...	1.0	1.0	--	--	--	--	--	--	--	--	--
09...	1.0	1.0	--	--	--	--	--	--	--	--	--
FEB											
02...	1.0	.5	750	14.2	100	76	49	60	49	1	.04
JUN											
12...	15.0	6.0	--	--	--	66	59	72	59	2	.45
AUG											

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.0	6.5	7.0	3.5	3.0	3.5	.5	.0	.5	1.0	.0	.5
2	7.0	7.0	7.0	3.0	2.5	2.5	1.5	.5	1.0	.0	.0	.0
3	7.0	6.5	7.0	2.5	2.0	2.0	2.0	1.5	1.5	.0	.0	.0
4	7.0	6.0	6.5	2.5	2.0	2.5	2.0	1.5	1.5	.0	.0	.0
5	7.5	6.5	7.0	3.5	2.5	3.0	2.0	1.5	1.5	.0	.0	.0
6	7.0	7.0	7.0	3.5	3.0	3.5	2.0	1.5	1.5	.5	.0	.5
7	7.0	6.5	6.5	3.5	3.5	3.5	1.5	1.0	1.5	1.0	.5	.5
8	6.5	6.0	6.5	4.0	3.5	4.0	1.5	1.5	1.5	1.0	.0	.5
9	6.0	5.5	6.0	4.0	3.5	4.0	1.5	1.0	1.0	.0	.0	.0
10	6.0	5.0	5.5	4.0	3.0	3.5	1.5	1.0	1.0	.0	.0	.0
11	6.0	5.0	5.5	4.0	3.5	3.5	1.0	.5	.5	.0	.0	.0
12	6.0	5.0	5.5	4.0	3.5	4.0	1.0	.5	.5	.0	.0	.0
13	6.0	5.0	5.5	4.0	3.5	4.0	.5	.0	.0	.0	.0	.0
14	5.5	5.0	5.0	4.0	3.5	4.0	.0	.0	.0	.0	.0	.0
15	5.0	4.5	5.0	3.5	3.0	3.0	.0	.0	.0	.0	.0	.0
16	6.0	5.0	5.5	4.0	3.0	3.5	.0	.0	.0	.0	.0	.0
17	6.0	5.5	6.0	4.0	3.0	3.5	.0	.0	.0	.0	.0	.0
18	7.5	6.0	6.5	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0
19	7.5	6.0	6.5	4.0	3.5	3.5	.0	.0	.0	.0	.0	.0
20	6.0	5.0	5.5	3.5	3.0	3.5	.5	.0	.0	.0	.0	.0
21	6.0	4.5	5.5	3.5	3.0	3.5	1.0	.5	.5	.0	.0	.0
22	6.0	5.5	5.5	3.0	2.5	3.0	2.0	1.0	1.5	.0	.0	.0
23	5.5	5.0	5.5	3.0	2.5	2.5	3.0	2.0	2.5	.0	.0	.0
24	5.5	5.0	5.5	2.5	2.5	2.5	2.0	1.5	2.0	.0	.0	.0
25	5.5	5.0	5.5	2.5	1.5	2.0	2.5	1.5	2.0	.5	.0	.0
26	5.0	4.0	4.5	2.0	1.5	2.0	3.5	2.5	3.0	.5	.0	.5
27	5.0	4.5	4.5	2.0	.0	.5	3.0	2.0	2.5	.5	.0	.0
28	4.5	3.5	4.0	.0	.0	.0	3.5	2.5	3.0	.0	.0	.0
29	3.5	3.0	3.5	.0	.0	.0	2.5	2.0	2.5	.5	.0	.5
30	3.0	2.5	3.0	.0	.0	.0	2.0	1.5	2.0	.5	.5	.5
31	3.0	2.5	3.0	---	---	---	1.5	1.0	1.5	.5	.0	.0
MONTH	7.5	2.5	5.6	4.0	.0	2.8	3.5	.0	1.2	1.0	.0	.1

15057590 KAHTAHEENA RIVER NEAR GUSTAVUS--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.5	1.5	1.0	1.0	3.0	1.0	2.0	4.5	3.5	4.0
2	.5	.5	.5	1.0	.5	1.0	3.0	1.5	2.0	5.5	3.5	4.5
3	.5	.5	.5	1.0	.5	.5	3.0	1.5	2.0	5.0	3.0	4.0
4	.5	.0	.5	1.0	.5	1.0	3.0	1.5	2.0	6.0	3.0	4.5
5	.5	.5	.5	1.0	.5	1.0	3.5	1.5	2.5	5.5	3.0	4.0
6	.5	.0	.5	.5	.0	.0	2.5	1.5	2.0	6.0	2.5	4.5
7	1.0	.5	.5	.0	.0	.0	2.5	1.5	2.0	6.0	3.0	4.5
8	.5	.5	.5	.0	.0	.0	2.5	1.5	1.5	6.0	2.5	4.5
9	.5	.0	.0	.0	.0	.0	2.5	1.5	2.0	6.5	3.0	4.5
10	.0	.0	.0	.0	.0	.0	2.5	.5	1.5	6.0	2.5	4.5
11	.0	.0	.0	.5	.0	.5	2.5	2.0	2.0	6.5	3.5	5.0
12	.0	.0	.0	.5	.5	.5	4.0	1.5	2.5	6.0	3.0	4.5
13	.0	.0	.0	1.0	.5	.5	3.0	1.0	2.0	6.0	3.0	4.5
14	.5	.0	.0	1.0	.5	1.0	3.0	.5	1.5	5.0	4.0	4.5
15	.0	.0	.0	1.0	.5	1.0	4.0	1.0	2.0	5.5	4.0	4.5
16	.0	.0	.0	1.5	1.0	1.0	3.5	2.0	2.5	5.5	4.0	4.5
17	.0	.0	.0	1.5	.5	1.0	3.5	2.0	2.5	6.5	4.5	5.0
18	.5	.0	.0	1.5	1.0	1.0	3.5	3.0	3.0	6.0	4.5	5.0
19	.5	.5	.5	2.0	1.0	1.5	4.0	2.5	3.0	5.5	4.0	5.0
20	.5	.0	.5	1.5	1.0	1.0	4.0	3.0	3.5	6.0	4.0	5.0
21	.5	.5	.5	1.5	1.0	1.5	4.5	2.5	3.5	5.5	4.0	4.5
22	.5	.0	.5	2.0	1.5	1.5	4.0	2.0	3.0	5.5	4.5	5.0
23	1.0	.5	.5	2.0	1.5	2.0	3.5	1.5	2.5	5.5	4.0	4.5
24	1.0	.5	1.0	2.0	1.5	2.0	4.5	2.0	3.0	6.0	4.0	5.0
25	1.0	1.0	1.0	2.0	1.0	1.5	5.0	2.0	3.5	6.0	3.5	5.0
26	1.0	.5	1.0	2.0	.5	1.5	5.5	2.5	3.5	7.5	3.0	5.0
27	1.0	.5	1.0	2.0	1.0	1.5	4.5	2.0	3.5	7.0	3.5	5.5
28	1.0	.5	.5	2.0	1.0	1.5	5.5	3.0	4.0	6.5	4.0	5.5
29	1.0	.5	1.0	2.5	1.5	2.0	4.5	3.5	4.0	6.0	4.5	5.0
30	---	---	---	2.5	1.5	2.0	5.5	3.5	4.0	7.0	4.5	5.5
31	---	---	---	2.0	1.5	1.5	---	---	---	7.5	3.5	5.5
MONTH	1.0	.0	.4	2.5	.0	1.0	5.5	.5	2.6	7.5	2.5	4.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	4.0	6.0	9.0	7.5	8.0	10.5	8.5	9.5	9.0	7.0	8.0
2	8.0	4.0	6.0	8.5	7.0	8.0	10.5	7.5	9.0	8.0	6.0	7.0
3	8.0	4.0	6.0	9.0	7.5	8.0	10.5	9.0	9.5	7.5	6.0	6.5
4	8.0	4.5	6.0	10.0	7.5	8.5	10.5	9.5	10.0	9.5	7.5	8.5
5	7.5	5.0	6.5	9.5	8.0	8.5	11.0	9.5	10.0	9.5	8.5	9.0
6	6.5	5.0	5.5	9.5	7.5	8.5	10.0	9.5	10.0	9.0	8.5	8.5
7	6.0	5.0	5.5	9.0	8.0	8.5	10.5	9.0	9.5	8.5	7.5	8.0
8	7.0	5.0	6.0	11.0	7.0	9.0	10.0	8.5	9.0	8.0	6.5	7.5
9	7.0	4.5	6.0	9.5	8.5	9.0	11.0	8.0	9.5	7.5	6.0	7.0
10	9.0	5.0	6.5	9.5	8.5	9.0	11.0	8.0	9.5	7.5	6.0	7.0
11	7.5	5.5	6.5	10.0	8.0	9.0	11.0	8.5	9.5	8.5	7.5	8.0
12	9.5	5.0	7.0	10.5	8.0	9.0	10.0	9.0	9.5	8.0	7.5	8.0
13	8.0	6.0	6.5	9.5	7.0	8.5	10.5	8.0	9.0	8.0	7.5	7.5
14	6.5	5.5	6.0	9.5	8.0	8.5	10.5	9.0	9.5	8.0	7.5	8.0
15	6.5	5.5	6.0	9.5	8.5	9.0	10.5	9.5	10.0	7.5	6.5	7.0
16	7.0	5.5	6.0	10.0	9.0	9.5	10.0	9.0	9.5	8.0	6.5	7.0
17	6.5	6.0	6.0	10.0	8.5	9.5	10.5	8.5	9.0	8.0	8.0	8.0
18	6.0	5.5	6.0	9.5	8.5	9.0	10.0	7.5	9.0	8.0	7.0	8.0
19	6.5	5.5	6.0	9.5	8.5	9.0	9.5	8.5	9.0	7.0	6.0	6.5
20	7.0	6.0	6.5	9.5	8.5	9.0	10.0	9.5	10.0	7.0	5.5	6.0
21	7.0	5.5	6.0	8.5	7.5	8.5	10.0	9.0	9.5	6.5	5.0	6.0
22	8.0	5.5	6.5	10.0	8.0	9.0	9.5	9.0	9.5	7.5	6.0	6.5
23	8.5	4.5	6.5	10.0	9.0	9.5	9.5	8.0	9.0	8.5	7.0	8.0
24	9.5	5.5	7.5	10.0	8.5	9.0	8.5	7.5	8.0	9.0	8.5	8.5
25	9.0	7.0	8.0	9.5	8.0	8.5	9.0	7.5	8.5	9.5	8.5	8.5
26	10.5	7.5	9.0	9.5	8.0	8.5	9.5	8.0	8.5	9.0	8.5	8.5
27	9.5	8.0	8.5	9.5	8.5	9.0	9.0	8.0	8.5	9.0	8.0	8.5
28	9.5	7.5	8.5	10.0	9.0	9.5	10.0	8.0	8.5	8.5	8.0	8.5
29	9.0	7.5	8.5	10.0	9.0	9.5	9.5	7.0	8.0	8.5	6.5	7.5
30	8.0	6.0	7.0	9.5	8.5	9.0	9.5	8.5	9.0	6.5	4.5	5.5
31	---	---	---	10.5	9.0	9.5	9.5	7.0	8.5	---	---	---
MONTH	10.5	4.0	6.6	11.0	7.0	8.9	11.0	7.0	9.2	9.5	4.5	7.6

15070000 SWAN LAKE NEAR KETCHIKAN

LOCATION.--Lat 55º36′54″, long 131º20′14″, in SW¼ NE¼ sec. 20, T. 72 S., R. 92 E. (Ketchikan C-4 quad), Hydrologic Unit 19010102, Ketchikan Gateway Borough, on Revillagigedo Island, in Tongass National Forest, 0.7 mi upstream from mouth at Carroll Inlet, and 22 mi northeast of Ketchikan.

DRAINAGE AREA.--36.5 mi^2.

PERIOD OF RECORD.--September 1916 to January 1926, September 1927 to December 1933 and October 1946 to September 1959 (discharge). Published as "Swan Lake Outlet at Carroll Inlet" prior to 1946 and as "Falls Creek near Ketchikan" October 1946 to September 1959. Monthly discharges only for some periods, published in WSP 1372. October 1984 to current year (month end reservoir contents and monthly discharges).

REVISED RECORDS.--WSP 1372: Drainage area, 1918.

GAGE.--Non-recording lake-level staff gage. Datum of lake-level staff gage is at sea level. Totalizing MWH meters on the two turbines in Swan Lake Powerhouse. September 1916 to January 1926 and September 1927 to December 1933 at site 1,500 ft downstream at different datum. October 1946 to September 1959, recording gage at site 2,500 ft downstream, elevation of gage was 130 ft above sea level, from topographic map.

REMARKS.--Reservoir is formed by a concrete arch dam located at the outlet of Swan Lake; construction began in August 1980 and was completed in March 1983. Total and usable capacities below spillway crest of 330 ft are 126,200 and 82,800 acre-ft, respectively. Reservoir is used for power. Discharge released through turbines is computed from relation between discharge, head, and power generation; release flow enters directly into Carroll Inlet and is not returned to stream. Spill is computed from a theoretical relation between discharge and stage above crest of the spillway. Turbine and spillway ratings and reservoir capacity table furnished by the City of Ketchikan in 1985.

COOPERATION.--Reservoir elevations and release flow provided by the City of Ketchikan.

AVERAGE DISCHARGE.--44 years (water years 1917-25, 1928-33, 1947-59, 1985-2000), 444 ft^3/s, 165.2 in/yr, 321,700 acre-ft/yr. Mean discharge for water years 1985-2000 adjusted for change in contents of Swan Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 132,200 acre-ft, November 29, 1987, elevation, 334.2 ft; minimum contents observed, 51,770 acre-ft, September 22, 1993, elevation, 278.4 ft. Maximum discharge, about 5,500 ft^3/s, November 1, 1917; minimum daily discharge, 19 ft^3/s, February 21 to 25, 1925. Maximum daily discharge since construction of dam, 3,680 ft^3/s, November 30, 1988; no flow released several days most years.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 131,518 acre-ft, October 22, 1999, elevation, 333.70 ft; minimum contents observed, 68,876 acre-ft, February 29, 2000, elevation, 290.4 ft. Maximum release from reservoir (mean daily, not adjusted for changes in storage), 2,060 ft^3/s, October 22, 1999; minimum release, undetermined.

MONTH END RESERVOIR ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, IN ACRE FEET

WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
Sep 30	330.3	126,600	
Oct 31	330.7	127,620	+1,020
Nov 30	328.7	124,290	-3,330
Dec 31	323.5	116,770	-7,520
Jan 31	306.9	92,750	-24,020
Feb 29	290.4	68,880	-23,870
Mar 31	296.3	77,410	+8,530
Apr 30	294.0	74,080	-3,330
May 31	302.8	86,810	+12,730
Jun 30	311.9	99,980	+13,170
Jul 31	318.7	109,820	+9,840
Aug 31	320.5	112,430	+2,610
Sep 30	329.0	124,700	+12,290
		CAL YR 1999	+46,400
		WTR YR 2000	-1,880

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

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT	323	375	698	715
NOV	389	132	521	465
DEC	480	0	480	358
JAN	536	0	536	145
FEB	502	0	502	87
MAR	228	0	228	367
APR	451	0	451	395
MAY	444	0	444	651
JUN	389	0	389	610
JUL	452	0	452	612
AUG	499	0	499	541
SEP	390	0	390	596
CAL YR 1999	320	78.8	398	462
WTR YR 2000	424	42.2	466	462

15072000 FISH CREEK NEAR KETCHIKAN

LOCATION.--Lat 55°23′31″, long 131°11′38″, in SW¼SW¼ sec. 6, T. 75 S., R. 94 E. (Ketchikan B-4 quad.), Gateway Borough, Hydrologic Unit l9010102, on Revillagigedo Island, in Tongass National Forest, on right bank 250 ft upstream from outlet of Low Lake, 750 ft upstream from mouth at Thorne Arm, and 18 mi east of Ketchikan.

DRAINAGE AREA.--32.1 mi^2, excludes that of Granite Lake drainage basin.

PERIOD OF RECORD.--May 1915 to October 1936, October 1938 to current year. Prior to October 1945, monthly discharge only. Records of daily discharge prior to October 1945 are available in computer files of the Geological Survey. Prior to January 1921, published as "near Sea Level, Revillagigedo Island."

REVISED RECORDS.--WSP 1372: 1918.

GAGE.--Water-stage recorder. Elevation of gage is 20 ft above sea level, by barometer. Prior to October 1935, at site 150 ft downstream at different datum. October 1935 to October 3, 1975, at prior site and present datum.

REMARKS.--No estimated daily discharges. Records good. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,200 ft^3/s and/or maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 23	1500	2490	3.62	Aug 22	0900	*3310	*4.18

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	372	698	530	461	400	357	1400	1040	432	501	709	383
2	313	833	464	374	329	466	1250	919	446	460	554	317
3	301	1000	494	316	277	617	1160	805	465	414	440	267
4	325	817	667	286	236	454	931	706	486	377	362	256
5	309	665	592	259	209	356	762	627	493	355	312	369
6	314	543	510	422	184	294	637	546	506	341	276	420
7	559	561	393	535	175	250	584	477	499	337	245	654
8	793	479	340	598	202	216	493	430	486	330	226	910
9	796	519	377	448	213	193	397	403	469	319	215	893
10	791	546	339	356	196	175	332	394	437	313	206	772
11	959	596	311	302	178	162	290	408	405	328	194	694
12	861	568	285	256	165	176	268	430	379	312	183	698
13	874	479	250	221	153	182	263	430	411	293	167	581
14	787	454	221	194	143	220	254	418	667	276	155	708
15	646	468	269	172	133	227	236	414	742	262	147	690
16	697	558	339	154	125	289	218	408	660	253	166	1190
17	758	663	293	142	118	280	203	489	641	245	257	1720
18	657	649	246	131	116	362	193	770	621	239	272	1450
19	565	862	223	123	195	341	199	892	573	293	251	1050
20	674	819	237	115	414	401	367	834	607	544	384	766
21	1380	739	280	109	347	510	844	803	628	578	1360	573
22	2350	756	293	103	276	457	759	1070	604	500	3040	437
23	2370	602	302	99	251	401	621	1100	581	448	2110	346
24	2140	597	411	94	293	527	532	921	517	582	1330	286
25	1760	577	844	90	292	495	447	746	473	1130	1270	240
26	1450	501	1140	89	294	962	378	594	459	1120	1170	209
27	1390	412	1040	318	249	1050	361	507	461	1080	884	186
28	1070	359	916	597	205	800	377	501	470	1050	793	275
29	912	390	849	644	266	647	435	523	487	1370	737	854
30	1010	423	678	494	---	767	863	491	511	1110	587	877
31	877	---	560	446	---	930	---	443	---	880	472	---
TOTAL	29060	18133	14693	8948	6634	13564	16054	19539	15616	16640	19474	19071
MEAN	937	604	474	289	229	438	535	630	521	537	628	636
MAX	2370	1000	1140	644	414	1050	1400	1100	742	1370	3040	1720
MIN	301	359	221	89	116	162	193	394	379	239	147	186
MED	793	572	377	259	209	362	416	523	490	377	362	618
AC-FT	57640	35970	29140	17750	13160	26900	31840	38760	30970	33010	38630	37830
CFSM	29.2	18.8	14.8	8.99	7.13	13.6	16.7	19.6	16.2	16.7	19.6	19.8
IN.	33.68	21.01	17.03	10.37	7.69	15.72	18.60	22.64	18.10	19.28	22.57	22.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2000, BY WATER YEAR (WY) #

MEAN	702	568	422	347	319	264	356	503	470	333	331	434
MAX	1326	1767	1081	975	944	673	655	867	764	718	767	953
(WY)	1975	1918	1931	1926	1993	1986	1949	1999	1951	1976	1972	1948
MIN	237	89.2	83.4	37.9	37.8	71.4	130	182	142	65.3	50.7	80.0
(WY)	1926	1974	1984	1950	1969	1969	1967	1998	1998	1958	1965	1965

See Period of Record

15072000 FISH CREEK NEAR KETCHIKAN--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1915 - 2000#	
ANNUAL TOTAL	188498		197426			
ANNUAL MEAN	516		539		422	
HIGHEST ANNUAL MEAN					556	1992
LOWEST ANNUAL MEAN					302	1978
HIGHEST DAILY MEAN	3940	May 24	3040	Aug 22	4410	Oct 15 1961
LOWEST DAILY MEAN	108	Mar 10	89	Jan 26	20	Sep 9 1928
ANNUAL SEVEN-DAY MINIMUM	126	Mar 4	100	Jan 20	23	Sep 5 1928
INSTANTANEOUS PEAK FLOW			3310	Aug 22	a5400	Oct 15 1961
INSTANTANEOUS PEAK STAGE			4.18	Aug 22	b5.85	Oct 15 1961
INSTANTANEOUS LOW FLOW			c86	Jan 25	20	Sep 9 1928
ANNUAL RUNOFF (AC-FT)	373900		391600		305600	
ANNUAL RUNOFF (CFSM)	16.1		16.8		13.1	
ANNUAL RUNOFF (INCHES)	218.45		228.79		178.53	
10 PERCENT EXCEEDS	870		960		864	
50 PERCENT EXCEEDS	427		454		318	
90 PERCENT EXCEEDS	167		195		97	

\# See Period of Record
a From rating curve extended above 3,600 ft^3/s
b At site then in use
c Jan. 25 and Jan. 26

15081495 NORTH FORK STANEY CREEK NEAR KLAWOCK

LOCATION.--Lat 55°43′58″, long 132°58′02″, in NE¼ NE¼ sec. 10, T. 71 S., R. 81 E. (Craig C-4 quad), Hydrologic Unit 19010103, on Prince of Wales Island, in Tongass National Forest, on left bank, immediately upstream from bridge on Forest Road 2050, 6 mi upstream from Middle Fork Staney Creek and 12.4 mi north of Klawock.

DRAINAGE AREA.--3.07 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1990 to current year.

REVISED RECORDS.--WDR AK-92-1: 1991.

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

REMARKS.--Records good except for those above 200 ft^3/s which are fair and estimated daily discharges which are poor.

EXTREMES FOR CURRENT YEAR.-- Peak discharges greater than base discharge of 350 ft^3/s (revised) and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct 16	0515	398	4.55	Aug 21	1430	572	5.08
Oct 21	1130	*704	*5.43	Sep 04	2030	457	4.74
Oct 23	1615	422	4.63	Sep 13	2345	352	4.39
Nov 02	0400	354	4.40				

REVISIONS.-- Revised maximum discharges for the water years 1990-99, revised daily discharges, in cubic feet per second, for high water periods for the year 1993 with revised monthly and yearly discharges are given below. These figures supersede those published in the reports for 1993, and 1996-1999.

1990 WATER YEAR
Peak discharges previously published as above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Sept. 23	2230	*234	*3.93

1991 WATER YEAR
Peak discharges previously published as above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 08	0500	483	4.82	Dec. 26	0700	454	4.73
Oct. 23	1300	319	4.27	Sept. 03	0730	327	4.30
Dec. 05	2400	*740	*5.52				

1992 WATER YEAR
Peak discharges previously published as above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct.08	2330	349	4.38	Dec. 3	0945	321	4.28
Nov. 15	0700	395	4.54	Apr. 1	0230	372	4.46
Nov. 30	2100	*419	*4.62				

1993 WATER YEAR
Peak discharges previously published as above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Nov. 13	1100	377	4.48	Jan. 29	1215	*1110	*6.34
Dec. 13	0645	419	4.62	Feb. 27	0145	392	4.53
Dec. 23	1030	568	5.07	Sep. 22	2030	422	4.63

Daily Discharges:

Jan. 29.....720
Feb. 27.....340

MONTH	TOTAL	MEAN	MAX	MIN	AC-FT	CFSM	IN
Jan. 1993	1419.4	45.8	720	2.2	2820	14.9	17.2
Feb. 1993	1447.8	51.7	340	2.5	2870	16.8	17.54
Cal Year 1992	5923.9	16.2	215	1.6	11750	5.27	71.78
Wtr Year 1993	6325.48	17.3	720	.38	12550	5.64	76.65

15081495 NORTH FORK STANEY CREEK NEAR KLAWOCK--Continued

REVISIONS.--Continued.

1994 WATER YEAR
Peak discharges previously published as above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 26	0645	*849	*5.78	Jan. 17	1300	425	4.64
Nov. 13	2230	513	4.91	Mar. 1	0930	519	4.93
Nov. 19	0215	332	4.32	Sept. 17	0230	372	4.46
Dec. 17	0845	321	4.28	Sept. 21	2045	728	5.49
Dec. 23	0400	340	4.35				

1995 WATER YEAR
Peak discharges previously published as above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 16	0700	*516	*4.92	Aug 3	1630	321	4.28
Nov. 10	1815	419	4.62	Sep 10	2200	372	4.46

1996 WATER YEAR
Peak discharges previously published as above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 10	1600	*466	*4.77	Mar. 14	0815	332	4.32

1997 WATER YEAR
Peak discharges previously published as above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 30	0100	398	4.55	Sept. 19	1745	343	4.36
Apr. 2	0100	*516	*4.92				

1998 WATER YEAR
Peak discharges previously published as above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct 25	0700	*486	*4.83	Dec. 22	0815	363	4.43
Nov. 4	1715	340	4.35	Aug. 28	1545	450	4.72

1999 WATER YEAR
Peak discharges previously published as above base of 400 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct 18	0615	*422	*4.63	Aug. 28	0045	340	4.35
Jan. 3	1815	340	4.35	Sep. 18	2030	332	4.32
May. 23	0930	366	4.44				

15081495 NORTH FORK STANEY CREEK NEAR KLAWOCK--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	9.1	78	32	13	9.6	21	35	22	13	12	3.4	3.8
2	7.5	144	20	9.1	6.6	30	32	18	12	6.0	2.0	3.1
3	26	22	21	8.0	4.9	29	22	19	12	4.5	1.4	2.8
4	12	16	25	7.3	3.9	11	13	14	13	3.7	1.1	86
5	9.0	20	29	7.2	3.3	7.3	11	9.7	14	3.4	1.0	27
6	32	29	28	92	3.4	5.5	11	8.8	14	3.0	.98	53
7	67	35	13	33	8.0	e4.0	27	9.1	11	2.9	.95	112
8	52	53	12	37	12	e3.0	14	9.4	9.8	2.5	.93	19
9	33	52	11	13	9.6	e2.3	8.5	13	10	2.2	.92	38
10	24	43	17	9.6	e6.5	2.6	6.6	16	8.4	2.2	.89	8.5
11	35	47	31	7.5	e4.0	2.7	6.8	16	8.2	2.3	.84	28
12	39	22	15	e4.6	e2.7	6.7	9.5	14	8.0	2.2	.79	11
13	110	21	11	e4.3	e2.3	14	9.0	13	10	2.1	.75	54
14	29	37	8.6	e4.0	e2.0	19	5.9	11	16	1.9	.71	65
15	18	30	e8.0	e3.6	e1.8	10	5.1	9.7	10	1.7	1.6	26
16	100	62	e10	e3.2	e1.6	18	4.9	13	11	1.6	6.9	164
17	31	22	12	e3.0	e1.5	16	5.1	25	14	1.6	16	118
18	15	18	e10	e2.7	e2.0	21	12	21	8.7	2.2	3.2	35
19	65	59	e9.5	e2.5	e7.5	9.6	10	20	11	15	1.7	15
20	30	37	31	e2.2	e18	14	22	14	17	10	49	17
21	356	31	37	e2.0	14	57	27	31	12	5.2	218	11
22	65	33	41	e1.9	11	14	12	70	17	4.0	81	7.6
23	227	20	33	e1.8	16	10	7.6	23	26	8.8	11	6.5
24	84	172	95	e1.6	15	18	7.2	20	9.8	80	9.1	5.9
25	93	36	101	e1.5	13	23	6.6	13	7.1	13	32	5.0
26	81	16	55	e1.4	8.9	67	13	11	5.9	9.0	13	4.5
27	84	12	31	74	6.0	43	9.6	11	5.1	12	9.7	4.7
28	20	11	56	76	4.8	14	9.9	25	4.7	19	31	66
29	61	13	25	49	18	17	16	14	5.4	11	12	38
30	58	12	14	33	---	29	43	12	16	7.2	6.9	22
31	22	---	16	31	---	62	---	13	---	4.9	4.9	---
TOTAL	1894.6	1203	858.1	540.0	217.9	600.7	422.3	538.7	340.1	257.1	523.66	1057.4
MEAN	61.1	40.1	27.7	17.4	7.51	19.4	14.1	17.4	11.3	8.29	16.9	35.2
MAX	356	172	101	92	18	67	43	70	26	80	218	164
MIN	7.5	11	8.0	1.4	1.5	2.3	4.9	8.8	4.7	1.6	.71	2.8
AC-FT	3760	2390	1700	1070	432	1190	838	1070	675	510	1040	2100
CFSM	19.9	13.1	9.02	5.67	2.45	6.31	4.59	5.66	3.69	2.70	5.50	11.5
IN.	22.96	14.58	10.40	6.54	2.64	7.28	5.12	6.53	4.12	3.12	6.35	12.81

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2000, BY WATER YEAR (WY) #

MEAN	35.5	25.2	29.3	26.1	21.3	16.8	18.2	14.0	8.83	5.84	9.82	23.8
MAX	61.1	40.2	49.1	48.9	51.7	35.1	29.7	33.8	21.0	11.8	17.9	45.1
(WY)	2000	1994	1991	1997	1993	1994	1997	1999	1999	1997	1998	1994
MIN	18.5	12.9	11.5	12.0	7.51	7.38	7.76	3.87	1.59	1.46	1.80	10.4
(WY)	1993	1997	1997	1996	2000	1991	1998	1998	1993	1993	1993	1993

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1990 - 2000	
ANNUAL TOTAL	9511.5		8453.56			
ANNUAL MEAN	26.1		23.1		19.7	
HIGHEST ANNUAL MEAN					24.7	1994
LOWEST ANNUAL MEAN					15.4	1996
HIGHEST DAILY MEAN	356	Oct 21	356	Oct 21	793	Oct 26 1993
LOWEST DAILY MEAN	3.3	Aug 7	.71	Aug 14	.38	Jul 21 1993
ANNUAL SEVEN-DAY MINIMUM	3.7	Aug 2	.83	Aug 8	.49	Jul 15 1993
INSTANTANEOUS PEAK FLOW			704	Oct 21	a1110	Jan 29 1993
INSTANTANEOUS PEAK STAGE			5.43	Oct 21	6.34	Jan 29 1993
INSTANTANEOUS LOW FLOW			b.70	Aug 13	c.37	Jul 20 1993
ANNUAL RUNOFF (AC-FT)	18870		16770		14250	
ANNUAL RUNOFF (CFSM)	8.49		7.52		6.41	
ANNUAL RUNOFF (INCHES)	115.25		102.43		87.05	
10 PERCENT EXCEEDS	56		56		44	
50 PERCENT EXCEEDS	16		12		9.1	
90 PERCENT EXCEEDS	5.4		2.3		2.2	

See Period of Record; partial years used in monthly summary statistics.
a From rating extended above 140 ft^3/s.
b Aug. 13-14.
c Jul. 20 and Jul. 21, 1993
e Estimated

15081495 NORTH FORK STANEY CREEK NEAR KLAWOCK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1991 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: November 1990 to current year.

INSTRUMENTATION.--Electronic water temperature recorder since November 20, 1990, set for 2-hour recording interval. New water temperature recorder installed April 11, 1996 with a 15-minute recording interval.

REMARKS.--Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on July 20. No variation was found within the cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE.--Maximum recorded, 18.5° C, June 30, 1992, July 16, 1993, and July 2-4, 1998; minimum, 0.0°C, on many days during winters.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE.--Maximum, 15.5°C August 4; minimum, 0.0°C, on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
JUL							
20...	1305	26.7	5.00	2.30	10	11.0	20.0
20...	1306	26.7	10.0	2.30	10	11.0	20.0
20...	1307	26.7	15.0	2.30	10	11.0	20.0
20...	1308	26.7	20.0	2.30	10	11.0	20.0
20...	1309	26.7	25.0	2.30	10	11.0	20.0

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.5	6.0	6.5	5.0	3.5	4.0	2.0	1.5	2.0	1.5	.5	1.0
2	7.5	6.5	7.0	5.0	3.5	4.5	1.5	1.5	1.5	.5	.5	.5
3	7.5	6.5	7.0	3.5	2.5	3.0	2.0	1.5	2.0	.5	.0	.5
4	7.5	6.0	7.0	3.0	2.5	2.5	2.0	2.0	2.0	.5	.5	.5
5	7.5	7.0	7.5	3.5	2.5	3.0	2.5	2.0	2.0	.5	.5	.5
6	8.0	7.5	7.5	3.5	3.0	3.5	2.0	1.0	1.5	1.0	.5	.5
7	7.5	7.0	7.0	4.0	3.5	3.5	1.5	1.0	1.0	1.5	1.0	1.0
8	7.0	6.5	7.0	4.0	3.5	4.0	1.0	1.0	1.0	1.5	.0	.5
9	6.5	6.0	6.5	4.5	4.0	4.0	1.5	1.0	1.0	.5	.0	.0
10	6.5	5.5	6.0	4.5	4.0	4.0	1.5	1.0	1.0	.0	.0	.0
11	6.5	6.0	6.0	4.5	4.0	4.0	1.5	1.0	1.0	.5	.0	.0
12	6.0	6.0	6.0	4.0	3.5	4.0	1.5	.5	1.0	.0	.0	.0
13	6.5	6.0	6.0	4.0	3.5	3.5	1.0	.0	.5	.0	.0	.0
14	6.0	5.0	5.5	3.5	3.0	3.5	.5	.0	.5	.5	.0	.0
15	5.0	4.5	5.0	5.0	3.5	4.0	.5	.0	.5	.0	.0	.0
16	6.5	5.0	6.0	5.0	4.5	5.0	1.0	.0	.5	.0	.0	.0
17	7.0	6.0	6.5	4.5	4.0	4.0	.5	.0	.5	.0	.0	.0
18	7.0	6.5	7.0	4.5	4.0	4.5	.5	.0	.0	.0	.0	.0
19	7.5	7.0	7.5	4.5	4.0	4.5	.5	.0	.0	.0	.0	.0
20	7.5	6.5	7.0	4.5	3.0	3.5	1.0	.0	.5	.0	.0	.0
21	8.0	6.5	7.5	3.5	3.0	3.0	1.5	1.0	1.5	.0	.0	.0
22	7.5	7.0	7.0	3.0	2.5	3.0	1.5	1.5	1.5	.0	.0	.0
23	7.5	6.5	7.0	2.5	2.0	2.5	2.0	1.5	2.0	.0	.0	.0
24	6.5	5.5	6.0	3.0	2.0	2.5	2.0	1.5	2.0	.0	.0	.0
25	6.0	5.0	5.5	2.5	1.5	2.0	2.5	2.0	2.5	.0	.0	.0
26	5.5	5.0	5.0	1.5	1.0	1.5	2.5	2.0	2.5	.0	.0	.0
27	5.5	5.0	5.5	1.5	1.5	1.5	2.5	2.5	2.5	.0	.0	.0
28	5.0	4.0	4.5	1.5	1.0	1.0	2.5	2.0	2.5	.0	.0	.0
29	4.5	3.0	4.0	2.0	1.0	1.5	2.0	2.0	2.0	.0	.0	.0
30	4.0	3.0	4.0	2.0	1.5	1.5	2.0	1.5	1.5	.0	.0	.0
31	3.5	3.0	3.5	---	---	---	2.0	1.5	1.5	.0	.0	.0
MONTH	8.0	3.0	6.2	5.0	1.0	3.2	2.5	.0	1.4	1.5	.0	.2

15081495 NORTH FORK STANEY CREEK NEAR KLAWOCK--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	1.0	.5	1.0	3.5	2.0	2.5	5.0	3.0	3.5
2	.0	.0	.0	1.5	1.0	1.0	3.5	2.5	3.0	4.5	3.5	4.0
3	.0	.0	.0	1.0	.5	.5	3.5	2.0	2.5	4.5	3.0	4.0
4	.0	.0	.0	1.5	.5	1.0	3.5	2.5	3.0	5.0	3.5	4.0
5	.0	.0	.0	2.0	1.0	1.5	3.5	2.5	3.0	5.5	3.0	4.0
6	.0	.0	.0	1.5	.5	1.0	3.5	2.0	3.0	6.0	3.5	4.5
7	.5	.0	.0	1.0	.0	.5	3.0	2.0	2.5	6.0	3.5	4.5
8	.5	.0	.5	1.0	.0	.5	3.0	2.0	2.5	6.5	3.0	5.0
9	.5	.0	.5	.5	.0	.5	4.0	1.5	3.0	7.5	3.5	5.5
10	.0	.0	.0	1.5	.0	.5	4.5	1.5	3.0	8.0	3.0	5.0
11	.0	.0	.0	2.0	.5	1.5	5.5	2.5	4.0	8.0	3.0	5.0
12	.0	.0	.0	2.5	1.5	2.0	5.5	3.0	4.0	5.5	4.0	4.5
13	.0	.0	.0	2.5	1.5	2.0	4.5	2.5	3.5	8.0	4.0	6.0
14	.0	.0	.0	2.5	1.5	2.0	4.5	1.5	3.0	5.5	4.5	5.0
15	.0	.0	.0	2.0	1.5	1.5	4.5	1.5	3.0	7.5	4.0	6.0
16	.0	.0	.0	2.0	1.5	1.5	5.0	2.0	3.5	6.5	5.0	5.5
17	.0	.0	.0	2.5	1.5	2.0	4.0	2.5	3.0	5.0	4.5	4.5
18	.0	.0	.0	2.5	1.5	2.0	3.5	3.0	3.0	6.0	4.0	5.0
19	.0	.0	.0	2.0	1.0	1.5	4.0	2.5	3.0	6.0	4.0	5.0
20	.0	.0	.0	2.0	1.5	2.0	3.5	3.0	3.5	5.5	4.0	4.5
21	.0	.0	.0	2.5	1.5	2.0	4.5	2.5	3.5	5.5	4.5	5.0
22	.5	.0	.5	3.0	1.5	2.0	4.5	3.0	3.5	5.5	4.5	5.0
23	.5	.0	.5	2.5	2.0	2.5	4.5	3.0	3.5	5.0	4.0	4.5
24	1.0	.5	.5	3.0	2.0	2.5	4.0	2.5	3.5	6.0	4.0	5.0
25	1.0	.5	1.0	2.5	2.0	2.0	5.0	2.5	4.0	6.5	3.5	5.0
26	1.0	.5	1.0	2.5	2.0	2.0	4.5	3.5	4.0	9.0	3.5	6.0
27	1.5	.5	1.0	2.5	1.5	2.0	4.5	3.0	3.5	8.5	4.5	6.5
28	1.0	.5	.5	2.5	1.0	2.0	5.0	3.0	4.0	7.0	5.0	6.0
29	1.0	.5	1.0	3.0	2.0	2.5	4.0	3.0	3.5	6.0	4.5	5.5
30	---	---	---	3.5	2.0	2.5	4.0	3.0	3.5	7.0	5.0	6.0
31	---	---	---	3.0	2.5	2.5	---	---	---	9.5	4.0	6.5
MONTH	1.5	.0	.2	3.5	.0	1.6	5.5	1.5	3.3	9.5	3.0	5.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.0	4.5	7.0	10.0	8.0	9.0	11.0	9.5	10.5	11.5	9.0	10.5
2	10.0	4.5	7.5	11.0	8.0	9.5	13.0	10.0	11.5	11.0	9.0	10.0
3	10.5	5.0	7.5	11.5	9.0	10.5	14.5	11.0	12.5	11.0	8.0	9.5
4	8.0	6.0	7.0	13.0	9.0	11.0	15.5	12.0	13.5	10.5	9.5	10.0
5	7.5	6.0	6.5	13.0	10.5	11.5	14.0	12.5	13.5	10.5	9.5	10.0
6	8.0	6.0	7.0	12.0	11.0	11.5	14.5	12.0	13.5	10.0	9.5	9.5
7	9.5	5.5	7.5	14.0	10.5	12.0	14.5	12.5	13.5	9.5	9.0	9.0
8	8.0	6.5	7.0	13.5	11.0	12.0	13.0	12.0	12.5	9.0	8.5	9.0
9	9.0	6.5	7.5	14.0	11.5	12.5	13.0	11.5	12.5	9.5	8.5	9.0
10	9.0	6.0	7.5	12.5	11.5	12.0	14.0	11.5	12.5	9.5	7.5	8.5
11	9.5	7.0	8.0	11.5	11.0	11.5	13.5	11.5	12.5	9.5	8.5	9.0
12	10.0	6.0	8.0	12.0	10.5	11.0	13.0	11.5	12.0	9.5	8.5	9.0
13	8.0	7.0	7.5	13.0	11.0	12.0	14.5	11.0	12.5	10.0	8.5	9.0
14	8.0	6.5	7.0	13.0	10.5	12.0	13.5	12.0	12.5	10.0	8.5	9.5
15	8.5	6.5	7.5	13.0	12.0	12.0	12.5	11.0	12.0	9.0	8.0	8.5
16	8.0	7.0	7.5	14.0	11.5	13.0	11.0	10.0	10.5	9.5	8.0	9.0
17	8.0	7.0	7.5	13.0	11.5	12.5	10.5	10.0	10.0	9.5	9.5	9.5
18	9.0	6.5	7.5	12.5	12.0	12.0	12.5	10.0	11.0	10.0	9.0	9.5
19	8.0	7.0	7.5	12.0	10.0	10.5	11.5	10.5	11.0	9.0	8.0	8.5
20	8.0	7.0	7.5	12.0	10.0	11.0	11.0	10.0	10.0	9.5	8.0	9.0
21	8.0	7.0	7.5	12.0	10.5	11.0	10.5	10.0	10.5	9.0	7.0	8.0
22	8.5	7.0	7.5	12.5	11.0	11.5	11.0	10.0	10.5	9.5	7.0	8.0
23	9.5	7.0	8.0	12.0	10.5	11.5	11.0	9.5	10.0	10.0	8.0	9.0
24	11.5	6.5	9.0	11.0	10.5	10.5	10.5	9.5	10.0	10.0	8.0	9.0
25	12.0	8.5	10.5	11.0	9.5	10.5	10.5	10.0	10.0	10.5	8.0	9.5
26	14.0	9.5	11.5	11.0	10.0	10.5	10.5	9.5	10.0	9.5	9.5	9.5
27	13.5	10.0	12.0	11.0	10.0	10.5	10.0	8.5	9.5	9.5	9.0	9.5
28	12.0	10.5	11.5	11.0	10.0	10.5	10.0	9.0	9.5	9.5	9.0	9.5
29	11.0	9.0	10.0	11.5	10.0	10.5	12.0	10.0	10.5	9.5	8.0	8.5
30	10.0	8.5	9.0	11.0	10.0	10.5	11.0	10.0	10.5	8.0	7.0	7.5
31	---	---	---	11.5	10.5	11.0	12.0	9.5	10.5	---	---	---
MONTH	14.0	4.5	8.1	14.0	8.0	11.2	15.5	8.5	11.3	11.5	7.0	9.1

15081497 STANEY CREEK NEAR KLAWOCK

LOCATION.--Lat 55°48′05″, long 133°06′31″, in SW¼ NW¼ sec. 14, T. 70 S., R. 80 E. (Craig D-4 quad), Hydrologic Unit 19010103, on Prince of Wales Island, in Tongass National Forest, on right bank, approximately 2.9 mi upstream from mouth, and 17 mi north of Klawock.

DRAINAGE AREA.--50.6 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1989 to current year. Equivalent daily discharge record collected at station No. 15081500 near Craig during water years 1964-81. Drainage area, 51.6 mi^2.

GAGE.--Water-stage recorder. Elevation of gage is 47 ft above sea level, by barometer.

REMARKS.--Records fair, except for discharges above 6,000 ft^3/s, and estimated daily discharges, which are poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 7,000 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct. 21	1545	*16200	*16.37	Jan. 27	2015	8200	14.04
Nov. 2	0515	7460	13.76	Aug. 21	1845	9040	14.34

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	152	2090	660	322	299	462	862	448	124	156	129	117
2	122	3580	592	191	171	618	457	348	111	82	91	97
3	468	469	404	151	132	957	414	249	99	63	70	84
4	248	303	516	159	117	324	238	185	98	54	58	1060
5	152	300	505	204	95	200	197	148	111	48	49	1200
6	532	282	685	2150	114	146	309	114	156	46	42	810
7	1870	522	306	888	115	114	618	108	165	45	38	1580
8	1060	719	259	966	184	98	430	104	163	40	35	520
9	636	925	290	297	189	e85	206	102	122	36	34	1060
10	511	479	414	189	130	80	139	117	98	35	33	282
11	573	709	851	146	e110	73	114	120	84	51	31	473
12	763	365	365	116	e100	94	123	117	73	49	29	364
13	2160	299	241	e105	e90	150	124	89	78	42	27	469
14	750	841	173	e100	e85	298	87	94	209	38	25	1820
15	343	399	380	e90	e80	198	70	69	173	33	53	292
16	1610	972	763	e85	e75	313	63	77	101	31	107	1880
17	708	420	266	e80	72	393	61	258	143	30	329	1530
18	292	250	173	e75	107	436	93	454	108	34	151	723
19	887	405	e210	e70	495	258	188	318	96	186	105	267
20	705	602	551	e68	539	330	388	224	266	206	863	231
21	7110	587	595	e65	359	1470	797	491	214	104	3530	168
22	965	649	555	e64	202	386	270	1450	251	75	2120	129
23	3540	364	436	e63	270	264	153	408	564	97	332	107
24	1420	3510	1220	e62	287	493	131	332	196	1750	195	95
25	1460	1020	1280	61	217	553	112	182	112	597	555	85
26	1190	372	1020	64	168	1880	178	126	86	212	385	78
27	1510	246	497	2690	148	1320	160	109	73	295	204	73
28	375	191	882	1550	128	437	132	326	65	431	739	809
29	978	294	525	1140	327	386	191	247	64	314	386	753
30	1250	246	274	484	---	875	806	161	131	215	214	525
31	471	---	408	675	---	896	---	133	---	152	151	---
TOTAL	34811	22410	16296	13370	5405	14587	8111	7708	4334	5547	11110	17681
MEAN	1123	747	526	431	186	471	270	249	144	179	358	589
MAX	7110	3580	1280	2690	539	1880	862	1450	564	1750	3530	1880
MIN	122	191	173	61	72	73	61	69	64	30	25	73
AC-FT	69050	44450	32320	26520	10720	28930	16090	15290	8600	11000	22040	35070
CFSM	22.2	14.8	10.4	8.52	3.68	9.30	5.34	4.91	2.86	3.54	7.08	11.6
IN.	25.59	16.48	11.98	9.83	3.97	10.72	5.96	5.67	3.19	4.08	8.17	13.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2000, BY WATER YEAR (WY) #

MEAN	704	583	644	441	420	358	325	222	119	97.1	188	430
MAX	1123	996	1270	782	983	565	559	558	252	200	384	783
(WY)	2000	1992	1992	1992	1991	1994	1997	1999	1999	1997	1998	1994
MIN	443	201	267	240	152	204	173	79.0	26.5	22.1	26.6	166
(WY)	1997	1997	1997	1998	1994	1998	1993	1998	1993	1993	1993	1995

\# See Period of Record
e Estimated

15081497 STANEY CREEK NEAR KLAWOCK--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1990 - 2000#	
ANNUAL TOTAL	169344		161370			
ANNUAL MEAN	464		441		378	
HIGHEST ANNUAL MEAN					506	1992
LOWEST ANNUAL MEAN					283	1995
HIGHEST DAILY MEAN	7110	Oct 21	7110	Oct 21	14900	Oct 26 1993
LOWEST DAILY MEAN	32	Aug 7	25	Aug 14	4.4	Jul 21 1993
ANNUAL SEVEN-DAY MINIMUM	39	Aug 3	31	Aug 8	6.0	Jul 15 1993
INSTANTANEOUS PEAK FLOW			a16200	Oct 21	b19800	Oct 26 1993
INSTANTANEOUS PEAK STAGE			16.37	Oct 21	17.20	Oct 26 1993
INSTANTANEOUS LOW FLOW			c23	Aug 14	4.0	Jul 21 1993
ANNUAL RUNOFF (AC-FT)	335900		320100		273500	
ANNUAL RUNOFF (CFSM)	9.17		8.71		7.46	
ANNUAL RUNOFF (INCHES)	124.50		118.64		101.39	
10 PERCENT EXCEEDS	969		991		911	
50 PERCENT EXCEEDS	278		228		170	
90 PERCENT EXCEEDS	80		65		37	

\# See Period of Record
a From rating curve extended above 3000 ft^3/s
b From rating curve extended above 2000 ft^3/s
c Aug. 14 and Aug. 15.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1990 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: January 1990 to current year.

INSTRUMENTATION.--Electronic water temperature recorder since January 11, 1990, set for 2-hour recording interval. As of April 9, 1996, recorder set to 15-minute recording interval.

REMARKS.--Partial water temperature on May 8 and July 20. Records represent water temperature at sensor within 0.5ºC. Temperature at the sensor was compared with the stream average by cross section on July 20. No variation was found within the cross section. No variation was found between the mean stream temperature and temperature at the sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE.--Maximum recorded, 26.0ºC, June 29, 1990, but may have been higher during period of instrument malfunction July 9 to August 23, 1990; minimum, 0.0ºC on many days during winter.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE.--Maximum, 19.5ºC,July 8 and 16; minimum, 0.0ºC on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
JUL 2000							
20...	1130	88.0	8.00	7.98	223	12.5	14.0
20...	1133	88.0	18.0	7.98	223	12.5	14.0
20...	1135	88.0	28.0	7.98	223	12.5	14.0
20...	1140	88.0	48.0	7.98	223	12.5	14.0
20...	1143	88.0	38.0	7.98	223	12.5	14.0
20...	1148	88.0	58.0	7.98	223	12.5	14.0
20...	1152	88.0	68.0	7.98	223	12.5	14.0
20...	1204	88.0	78.0	7.98	223	12.5	14.0

15081497 STANEY CREEK NEAR KLAWOCK--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.5	7.0	7.5	5.5	5.0	5.0	3.0	2.5	2.5	3.0	1.5	2.5
2	8.5	7.0	7.5	6.0	5.0	5.5	2.5	2.0	2.5	2.5	1.5	2.0
3	8.5	7.5	8.0	5.0	4.0	4.5	3.5	2.5	3.0	3.0	1.5	2.5
4	8.5	6.5	7.5	4.5	3.5	4.0	3.5	3.0	3.0	3.0	1.5	2.5
5	8.0	7.0	7.5	4.5	3.5	4.0	3.5	3.0	3.0	3.0	1.0	2.0
6	8.5	8.0	8.0	5.0	4.0	4.5	3.0	2.0	2.5	1.5	1.5	1.5
7	8.0	7.5	8.0	4.5	4.0	4.5	2.5	1.5	2.0	2.5	1.5	2.0
8	8.0	7.5	7.5	4.5	4.5	4.5	3.0	1.5	2.0	2.5	1.0	1.5
9	7.5	7.0	7.0	5.0	4.5	4.5	2.5	1.5	2.0	1.5	.5	1.0
10	7.0	6.5	6.5	5.0	4.5	5.0	2.5	2.0	2.5	2.0	.5	1.5
11	7.0	6.5	7.0	5.0	4.5	4.5	2.5	2.0	2.0	2.0	1.0	2.0
12	7.0	6.5	7.0	5.0	4.0	4.5	3.0	1.5	2.5	2.5	1.5	2.0
13	7.0	6.5	7.0	5.0	4.0	4.5	2.0	1.0	1.5	2.0	1.5	2.0
14	6.5	6.0	6.5	4.5	4.0	4.0	2.5	1.5	2.0	1.5	1.0	1.5
15	6.5	5.5	6.0	5.5	4.0	4.5	2.5	.5	1.0	1.5	1.0	1.5
16	7.5	6.0	6.5	6.0	5.5	5.5	1.0	.5	1.0	1.0	1.0	1.0
17	7.5	7.0	7.5	5.5	4.5	5.0	1.5	.5	1.0	1.0	1.0	1.0
18	8.0	7.0	7.5	5.0	4.5	5.0	2.5	.0	1.0	1.0	1.0	1.0
19	8.0	8.0	8.0	5.5	5.0	5.0	.5	.0	.0	1.0	1.0	1.0
20	8.0	7.5	7.5	5.0	4.0	4.5	1.5	.5	1.0	1.0	.5	1.0
21	8.5	7.5	8.0	4.0	3.5	4.0	2.0	1.5	2.0	1.0	.0	1.0
22	8.0	7.5	8.0	4.0	3.5	3.5	2.0	1.5	1.5	1.0	.5	1.0
23	8.0	7.0	7.5	4.0	3.0	3.0	2.5	1.5	1.5	1.0	.0	.5
24	7.0	6.5	7.0	4.0	3.0	3.5	3.0	2.5	2.5	1.0	.5	.5
25	6.5	6.0	6.5	4.0	2.5	3.0	3.5	2.5	3.5	1.0	.5	.5
26	6.0	5.5	6.0	3.5	3.0	3.0	4.0	3.5	3.5	1.0	.5	.5
27	6.5	6.0	6.0	3.0	2.0	2.5	4.0	4.0	4.0	1.0	.0	.0
28	6.0	5.0	5.5	3.0	2.0	2.5	4.0	3.5	4.0	.5	.0	.0
29	5.5	4.5	5.0	3.0	2.0	2.5	3.5	3.0	3.5	1.0	.0	.5
30	5.0	4.5	5.0	3.0	2.0	2.5	3.5	2.5	3.0	2.0	.5	1.5
31	5.0	4.0	4.5	---	---	---	3.0	2.5	3.0	1.5	.5	1.0
MONTH	8.5	4.0	6.9	6.0	2.0	4.1	4.0	.0	2.3	3.0	.0	1.

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	1.0	1.5	2.0	1.5	1.5	4.5	3.5	4.0	7.0	4.5	5.5
2	1.5	1.0	1.5	2.5	1.5	2.0	5.5	4.0	4.5	7.0	5.0	6.0
3	2.0	1.0	1.5	2.0	1.5	1.5	5.0	3.5	4.0	9.0	5.5	7.0
4	2.0	1.0	1.5	2.5	1.5	2.0	5.5	3.5	4.5	8.5	5.5	7.0
5	1.5	1.0	1.0	3.0	1.5	2.0	5.0	3.5	4.5	8.5	5.0	6.5
6	1.5	1.0	1.0	2.5	1.0	2.0	5.0	2.5	4.0	9.0	5.0	7.0
7	1.5	.5	1.0	2.0	1.0	1.5	4.0	3.5	3.5	9.5	5.5	7.5
8	2.0	1.0	1.5	1.5	.5	1.0	4.0	3.0	3.5	---	5.0	---
9	1.5	.5	1.0	1.5	.5	1.0	5.5	2.5	4.0	11.0	5.0	8.0
10	1.0	.5	.5	2.5	.5	1.5	6.0	2.5	4.0	11.0	6.0	8.5
11	1.0	.5	.5	4.0	1.0	2.5	7.0	3.5	5.0	11.0	6.0	8.5
12	1.0	.5	.5	4.5	2.5	3.5	8.0	4.5	6.0	9.0	6.5	7.5
13	1.0	.5	.5	4.0	3.0	3.5	6.5	3.5	5.0	11.0	6.5	8.5
14	.5	.0	.5	4.0	2.5	3.5	6.5	2.0	4.5	8.5	7.0	7.5
15	.5	.5	.5	3.0	2.5	2.5	6.5	2.0	4.5	10.5	6.5	8.0
16	1.0	.5	.5	3.5	2.5	3.0	8.0	3.0	5.0	9.0	7.5	8.5
17	1.0	.5	.5	3.5	2.0	3.0	5.5	3.5	4.5	8.5	6.5	7.5
18	1.0	.0	.5	3.5	2.5	3.0	6.0	4.5	5.0	7.5	6.0	7.0
19	.0	.0	.0	3.5	1.5	2.5	5.5	3.5	4.5	8.0	6.5	7.5
20	.5	.0	.0	3.0	2.5	3.0	5.5	4.5	5.0	7.5	6.0	7.0
21	1.0	.0	.5	3.0	2.5	2.5	6.0	4.0	5.0	8.0	6.5	7.0
22	2.0	.5	1.0	4.0	2.5	3.0	7.5	4.5	5.5	7.0	6.0	6.5
23	2.0	.5	1.5	4.0	2.5	3.5	7.5	4.5	5.5	7.0	5.5	6.0
24	2.0	1.0	1.5	4.0	3.0	3.5	6.5	4.5	5.5	8.5	5.5	6.5
25	2.5	1.0	2.0	4.0	3.0	3.5	7.5	3.5	5.5	9.0	5.0	7.0
26	2.0	.5	1.5	3.5	3.0	3.0	8.0	5.0	6.5	11.0	5.5	8.0
27	2.5	1.0	1.5	3.5	2.5	3.0	6.5	5.0	5.5	10.0	6.0	8.0
28	2.0	1.0	1.5	4.0	2.0	3.0	7.0	4.5	5.5	10.0	7.5	8.5
29	2.5	1.5	2.0	4.0	3.0	3.5	6.0	5.5	6.0	8.0	7.0	7.5
30	---	---	---	4.5	3.0	3.5	5.5	4.5	5.0	9.5	6.5	8.0
31	---	---	---	4.5	4.0	4.0	---	---	---	12.0	6.0	9.0
MONTH	2.5	.0	1.0	4.5	.5	2.6	8.0	2.0	4.8	---	4.5	---

15081497 STANEY CREEK NEAR KLAWOCK--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.5	7.5	10.0	11.5	9.5	10.5	12.5	9.5	11.0	12.0	9.0	10.5
2	14.0	7.5	10.5	15.5	8.5	11.5	15.0	10.0	12.5	12.5	9.0	10.5
3	14.5	7.5	11.0	14.0	10.0	12.0	16.5	10.5	13.5	12.0	8.0	10.5
4	11.5	9.0	10.0	18.0	10.0	13.5	18.0	11.5	15.0	11.5	9.0	10.5
5	10.0	9.0	9.5	19.0	11.5	15.0	16.5	12.5	14.5	11.0	10.0	10.5
6	11.5	8.5	10.0	15.5	13.0	13.5	15.5	11.5	14.0	11.5	9.5	10.5
7	11.5	8.5	10.0	18.5	12.0	14.5	17.0	12.0	14.5	10.5	10.0	10.0
8	10.5	9.0	9.5	19.5	12.5	15.5	15.5	12.5	13.0	10.0	9.0	9.5
9	11.5	8.5	10.0	16.0	13.5	15.0	15.0	11.5	13.0	10.0	9.0	9.5
10	12.5	8.0	10.0	15.0	13.0	14.0	15.5	12.0	13.5	10.5	8.0	9.0
11	13.0	9.0	10.5	13.5	12.0	12.5	16.0	11.0	13.0	10.5	9.0	10.0
12	15.5	8.0	11.5	13.0	11.0	12.0	15.0	12.5	13.0	10.5	9.0	10.0
13	12.5	10.0	11.0	17.5	12.0	14.0	16.5	11.5	14.0	10.5	9.0	10.0
14	11.5	9.5	10.0	17.5	12.0	14.5	16.0	13.0	14.0	10.5	9.5	10.5
15	11.5	9.0	10.0	15.5	13.5	14.5	13.5	12.5	13.0	10.0	8.5	9.5
16	10.5	9.0	9.5	19.5	13.0	15.5	13.0	11.0	12.0	10.5	9.0	10.0
17	11.0	9.5	10.0	15.5	13.0	14.0	12.5	11.5	12.0	10.5	10.5	10.5
18	12.0	9.0	10.0	14.5	13.0	13.5	13.0	11.0	12.0	10.5	9.5	10.0
19	10.0	9.0	9.5	13.0	11.5	12.5	12.5	10.5	11.5	9.5	8.5	9.0
20	10.5	9.0	9.5	---	11.0	---	12.0	11.0	11.5	10.5	8.5	9.0
21	10.5	8.5	9.5	13.0	11.0	12.0	11.5	11.0	11.5	9.0	7.5	8.5
22	10.0	8.5	9.5	14.5	11.5	13.0	12.0	10.0	11.0	9.0	7.5	8.5
23	11.5	8.5	9.5	13.5	12.5	13.0	11.5	9.5	10.0	9.5	8.5	9.0
24	13.0	8.5	10.5	12.5	11.5	12.0	11.0	9.5	10.0	9.5	8.5	9.0
25	13.5	9.5	11.5	12.0	11.0	11.5	11.0	9.5	11.0	9.5	8.5	9.0
26	17.0	10.5	13.5	12.5	10.5	11.5	11.0	9.5	10.0	10.0	9.0	9.0
27	17.0	11.5	14.0	12.5	11.0	11.5	10.5	8.5	9.5	9.5	9.0	9.0
28	14.0	11.5	12.5	12.0	11.0	11.5	11.0	10.0	10.5	10.5	9.0	10.0
29	12.0	10.5	11.5	12.5	10.5	11.5	12.0	9.5	10.5	10.0	9.0	9.5
30	14.5	10.0	11.5	12.0	10.0	11.0	11.5	9.5	10.5	9.0	8.0	8.5
31	---	---	---	12.5	10.0	11.0	12.0	9.0	10.5	---	---	---
MONTH	17.0	7.5	10.5	---	8.5	---	18.0	8.5	12.1	12.5	7.5	9.6

15081610 THREEMILE CREEK NEAR KLAWOCK

LOCATION.--Lat 53°32′06″, long 132°57′17″, in SW¼ SW¼ SE¼ sec. 16, T. 73 S., R. 82 E. (Craig C-3 quad), Hydrologic Unit l9010103, on Prince of Wales Island, approximately 2.0 mi upstream from the mouth at Klawock Lake, and 5.2 mi east of the city of Klawock.

DRAINAGE AREA.--6.62 mi^2

PERIOD OF RECORD.--March 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 295 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges and those above 250 ft^3/s, which are poor.

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	49	92	69	50	34	51	79	70	65	61	48	35
2	46	101	50	37	24	55	64	63	67	51	39	27
3	110	67	66	38	20	46	54	64	67	43	37	22
4	60	59	63	38	19	22	37	58	72	40	42	119
5	49	59	62	45	18	15	31	51	79	41	39	74
6	83	62	51	91	18	12	32	41	79	48	32	69
7	126	62	34	72	47	9.5	49	39	69	59	27	90
8	106	83	37	66	42	8.1	27	39	59	48	25	65
9	88	72	36	44	31	7.3	20	37	57	45	27	76
10	87	69	48	34	22	7.4	18	47	54	53	23	46
11	95	70	54	29	18	7.9	19	57	51	62	20	71
12	207	59	36	23	16	12	22	56	55	49	18	51
13	178	69	28	20	15	20	22	47	60	45	17	58
14	124	67	24	16	14	30	17	46	76	44	17	73
15	87	80	60	e15	13	21	14	39	67	51	22	48
16	166	110	53	e14	13	29	14	40	63	51	44	157
17	116	71	34	e13	13	21	12	67	75	44	66	135
18	78	66	25	e13	19	29	14	73	71	59	41	82
19	138	83	34	e13	70	16	16	72	71	82	31	53
20	137	74	59	e12	63	37	63	57	81	77	70	43
21	482	67	68	e12	38	58	64	74	74	62	272	34
22	95	65	74	e11	33	25	40	88	76	60	133	28
23	131	59	78	e11	41	23	28	72	76	68	78	25
24	96	94	92	e11	35	41	23	64	62	110	70	22
25	114	61	102	12	29	39	22	48	57	82	105	20
26	83	48	89	14	18	104	51	44	57	73	88	18
27	79	39	80	86	15	67	35	46	57	70	73	18
28	64	46	81	87	12	32	33	71	60	78	121	41
29	82	50	69	68	27	42	62	62	59	72	82	67
30	77	38	57	62	---	54	99	52	58	64	63	58
31	62	---	63	59	---	83	---	56	---	59	46	---
TOTAL	3495	2042	1776	1116	777	1024.2	1081	1740	1974	1851	1816	1725
MEAN	113	68.1	57.3	36.0	26.8	33.0	36.0	56.1	65.8	59.7	58.6	57.5
MAX	482	110	102	91	70	104	99	88	81	110	272	157
MIN	46	38	24	11	12	7.3	12	37	51	40	17	18
AC-FT	6930	4050	3520	2210	1540	2030	2140	3450	3920	3670	3600	3420
CFSM	17.0	10.3	8.65	5.44	4.05	4.99	5.44	8.48	9.94	9.02	8.85	8.69
IN.	19.64	11.47	9.98	6.27	4.37	5.76	6.07	9.78	11.09	10.40	10.20	9.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY) #

MEAN	---	---	---	---	---	28.0	43.0	72.5	86.7	64.0	56.7	75.2
MAX	---	---	---	---	---	33.0	50.1	88.8	108	68.3	58.6	92.9
(WY)	---	---	---	---	---	2000	1999	1999	1999	1999	2000	1999
MIN	---	---	---	---	---	22.9	36.0	56.1	65.8	59.7	54.9	57.5
(WY)	---	---	---	---	---	1999	2000	2000	2000	2000	1999	2000

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000#	
ANNUAL TOTAL	20417.2			
ANNUAL MEAN	55.8			
HIGHEST ANNUAL MEAN				
LOWEST ANNUAL MEAN				
HIGHEST DAILY MEAN	482	Oct 21	482	Oct 21 1999
LOWEST DAILY MEAN	7.3	Mar 9	7.3	Mar 9 2000
ANNUAL SEVEN-DAY MINIMUM	9.2	Mar 6	9.1	Mar 4 1999
INSTANTANEOUS PEAK FLOW	1390	Aug 21	a1390	Aug 21 2000
INSTANTANEOUS PEAK STAGE	11.55	Aug 21	11.55	Aug 21 2000
INSTANTANEOUS LOW FLOW	6.4	Mar 10	6.4	Mar 10 2000
ANNUAL RUNOFF (AC-FT)	40500		40410	
ANNUAL RUNOFF (CFSM)	8.43		8.43	
ANNUAL RUNOFF (INCHES)	114.73		114.49	
10 PERCENT EXCEEDS	88		104	
50 PERCENT EXCEEDS	54		56	
90 PERCENT EXCEEDS	17		17	

\# See Period of Record
a From rating curve extended above 125 ft^3/s
e Estimated

15081995 REYNOLDS CREEK BELOW LAKE MELLEN NEAR HYDABURG

LOCATION.--Lat 55°13′05″, long 132°34′50″, in SW¼ SE¼ sec. 3, T. 77 S., R. 84 E.(Craig A-2 quad), Hydrologic Unit 19010103, on Prince of Wales Island, in Tongass National Forest, 0.1 mi below Lake Mellen, approximately 1 mi upstream from mouth at Copper Harbor in Hetta Inlet, and 10 mi east of Hydaburg.

DRAINAGE AREA.--5.20 mi^2.

PERIOD OF RECORD.--July 1982 to September 1985, October 1997 to current year

GAGE.--Water-stage recorder. Elevation of gage is 860 ft above sea level, from topographic map. Prior to January 1, 1984, at datum 2.00 ft higher.

REMARKS.--No estimated daily discharges. Records good. GOES satellite telemetry at station. Streamflow affected by storage in lakes, which cover 30 percent of the basin.

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	60	148	102	90	69	76	152	149	75	58	80	61
2	54	243	95	80	58	95	135	123	75	54	72	54
3	66	167	100	74	52	97	132	123	74	49	65	48
4	62	136	108	70	47	70	116	119	74	46	58	55
5	53	132	99	68	44	58	107	107	79	44	53	83
6	65	127	102	108	41	51	101	96	80	43	48	74
7	92	121	86	115	52	46	102	87	75	42	43	89
8	98	170	84	118	57	42	93	80	72	40	40	84
9	94	178	78	94	52	39	82	76	69	38	38	92
10	90	151	74	83	45	37	74	75	66	37	36	76
11	86	151	87	74	40	36	69	76	63	36	34	87
12	129	131	77	68	37	48	69	75	60	35	32	77
13	185	134	69	61	34	55	68	71	62	35	30	71
14	149	140	62	56	33	75	61	69	71	34	29	91
15	125	133	73	51	32	67	56	64	71	33	31	78
16	159	202	91	47	31	80	51	63	67	31	60	167
17	134	142	72	43	31	71	49	85	71	30	91	170
18	116	133	62	41	32	70	49	94	73	34	71	126
19	122	183	61	39	60	61	52	93	69	53	54	105
20	139	159	71	37	84	62	94	90	78	58	70	94
21	325	138	78	35	61	98	135	104	74	46	209	83
22	293	139	83	33	49	80	101	125	69	39	250	74
23	610	121	81	32	65	70	89	110	67	48	124	66
24	436	152	110	31	70	85	85	101	61	122	105	59
25	390	138	126	30	67	83	78	91	58	117	118	53
26	295	112	123	31	55	149	94	84	55	95	111	47
27	248	96	113	68	46	148	86	80	53	96	95	45
28	177	91	116	115	40	113	79	91	51	116	104	64
29	169	97	117	104	53	109	95	87	51	120	90	67
30	180	84	100	77	---	127	173	79	63	101	77	60
31	143	---	96	82	---	150	---	75	---	91	69	---
TOTAL	5344	4249	2796	2055	1437	2448	2727	2842	2026	1821	2387	2400
MEAN	172	142	90.2	66.3	49.6	79.0	90.9	91.7	67.5	58.7	77.0	80.0
MAX	610	243	126	118	84	150	173	149	80	122	250	170
MIN	53	84	61	30	31	36	49	63	51	30	29	45
AC-FT	10600	8430	5550	4080	2850	4860	5410	5640	4020	3610	4730	4760
CFSM	33.2	27.2	17.3	12.7	9.53	15.2	17.5	17.6	13.0	11.3	14.8	15.4
IN.	38.23	30.40	20.00	14.70	10.28	17.51	19.51	20.33	14.49	13.03	17.08	17.17

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000, BY WATER YEAR (WY) #

MEAN	98.1	73.5	69.8	87.9	76.7	63.0	69.9	80.1	64.7	43.7	49.3	58.7
MAX	172	142	131	129	107	97.9	90.9	128	103	61.4	78.7	80.0
(WY)	2000	2000	1998	1985	1984	1984	2000	1999	1999	1999	1983	2000
MIN	71.6	44.1	20.7	61.4	47.7	38.3	57.1	40.4	22.9	20.2	19.3	32.2
(WY)	1986	1986	1984	1998	1999	1999	1983	1998	1998	1998	1982	1982

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000 #	
ANNUAL TOTAL	31783		32532			
ANNUAL MEAN	87.1		88.9		71.2	
HIGHEST ANNUAL MEAN					88.9	2000
LOWEST ANNUAL MEAN					59.5	1983
HIGHEST DAILY MEAN	610	Oct 23	610	Oct 23	610	Oct 23 1999
LOWEST DAILY MEAN	22	Mar 10	29	Aug 14	9.0	Jul 9 1998
ANNUAL SEVEN-DAY MINIMUM	26	Aug 7	33	Jan 20	9.8	Jul 4 1998
INSTANTANEOUS PEAK FLOW			806	Oct 23	806	Oct 23 1999
INSTANTANEOUS PEAK STAGE			8.71	Oct 23	8.71	Oct 23 1999
INSTANTANEOUS LOW FLOW			29	Aug 14	a8.7	Jul 9 1998
ANNUAL RUNOFF (AC-FT)	63040		64530		51550	
ANNUAL RUNOFF (CFSM)	16.7		17.1		13.7	
ANNUAL RUNOFF (INCHES)	227.37		232.73		185.94	
10 PERCENT EXCEEDS	141		141		120	
50 PERCENT EXCEEDS	72		76		60	
90 PERCENT EXCEEDS	33		40		28	

See Period of Record; partial years used in monthly summary statistics and break in record
a Jul. 9 to Jul. 10

15085l00 OLD TOM CREEK NEAR KASAAN

LOCATION.--Lat 55°23′44″, long 132°24′25″, in NW¼ SW¼ sec. 6, T. 75 S., R. 86 E. (Craig B-2 quad) Hydrologic Unit 19010103, on Prince of Wales Island, in Tongass National Forest, on left bank 1,000 ft upstream from mouth at Skowl Arm of Kasaan Bay, 0.4 mi downstream from unnamed tributary, and 10 mi south of Kasaan.

DRAINAGE AREA.--5.90 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1949 to current year.

REVISED RECORDS.--WDR AK-85-1: 1950-1983 (P), 1984.

GAGE.--Water-stage recorder. Elevation of gage is 10 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 450 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct 12	1830	455	4.15	Nov 16	0315	720	4.98
Oct 21	1615	576	4.55	Nov 24	1700	484	4.25
Oct 23	1630	*1110	*5.99	Jan 27	1930	652	4.78
Oct 25	1000	770	5.12	Mar 26	1230	545	4.45
Nov 1	1900	538	4.43	Apr 30	0615	652	4.78
Nov 8	0800	618	4.68	Aug 16	2315	692	4.90
Nov 10	1345	475	4.22	Aug 21	1615	554	4.48
Nov 13	1900	628	4.71				

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	22	195	154	26	49	242	91	136	28	21	20	11
2	16	330	71	20	29	204	68	96	28	18	16	8.5
3	18	85	119	19	21	144	49	129	27	15	13	6.3
4	15	46	97	20	18	45	32	234	28	13	11	13
5	13	85	59	23	15	27	24	73	32	12	10	27
6	44	148	61	145	13	19	20	45	31	12	9.0	27
7	90	114	38	125	37	15	38	34	28	12	7.9	40
8	66	482	67	99	46	13	32	28	32	11	7.1	31
9	64	268	60	40	39	11	21	29	31	11	6.4	27
10	52	305	44	27	25	9.7	17	31	24	10	5.9	19
11	47	190	65	24	18	10	16	30	22	9.7	5.4	25
12	264	65	45	19	15	30	18	28	20	9.3	4.7	19
13	154	307	32	16	e12	81	18	26	19	10	4.2	26
14	63	162	25	e14	e10	99	13	24	21	9.8	3.9	58
15	43	198	44	e13	e8.5	81	10	22	20	9.4	4.2	26
16	110	451	63	e12	e7.5	82	9.6	25	18	9.1	196	190
17	49	105	34	e11	6.4	46	9.0	58	19	8.7	227	126
18	31	124	24	e9.5	7.2	45	10	41	18	9.2	58	56
19	31	228	23	e8.5	104	30	14	45	18	11	33	32
20	38	105	37	e8.0	102	51	207	39	22	11	30	25
21	383	68	50	e7.5	46	123	115	85	19	10	217	17
22	216	85	55	7.0	55	54	49	71	17	9.5	154	13
23	724	103	50	6.4	194	33	42	49	17	11	51	11
24	275	380	92	6.0	100	61	41	41	15	37	41	9.4
25	514	124	106	5.7	114	45	35	36	14	32	57	7.3
26	178	51	91	6.0	48	361	96	29	14	39	33	5.8
27	111	33	70	268	27	148	47	26	14	59	25	5.2
28	54	41	65	287	22	54	37	31	14	66	38	9.4
29	152	61	51	171	86	54	174	26	14	37	24	10
30	125	44	33	75	---	88	487	25	24	30	18	9.8
31	55	---	29	119	---	84	---	26	---	27	14	---
TOTAL	4017	4983	1854	1637.6	1274.6	2389.7	1839.6	1618	648	589.7	1344.7	890.7
MEAN	130	166	59.8	52.8	44.0	77.1	61.3	52.2	21.6	19.0	43.4	29.7
MAX	724	482	154	287	194	361	487	234	32	66	227	190
MIN	13	33	23	5.7	6.4	9.7	9.0	22	14	8.7	3.9	5.2
AC-FT	7970	9880	3680	3250	2530	4740	3650	3210	1290	1170	2670	1770
CFSM	22.0	28.2	10.1	8.95	7.45	13.1	10.4	8.85	3.66	3.22	7.35	5.03
IN.	25.33	31.42	11.69	10.33	8.04	15.07	11.60	10.20	4.09	3.72	8.48	5.62

e Estimated

15085l00 OLD TOM CREEK NEAR KASAAN--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) #

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	71.3	66.0	57.3	46.9	45.4	38.8	48.8	42.9	26.1	13.3	14.4	30.6
MAX	163	166	136	128	117	86.3	122	99.1	56.1	31.0	48.1	68.0
(WY)	1978	2000	1992	1992	1998	1984	1980	1999	1950	1991	1991	1994
MIN	28.4	17.1	8.29	3.00	5.00	10.1	19.1	15.0	5.45	2.66	1.81	2.69
(WY)	1952	1966	1984	1950	1950	1956	1967	1996	1958	1958	1993	1965

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000#	
ANNUAL TOTAL	26310.8		23086.6			
ANNUAL MEAN	72.1		63.1		41.8	
HIGHEST ANNUAL MEAN					63.1	2000
LOWEST ANNUAL MEAN					25.2	1951
HIGHEST DAILY MEAN	724	Oct 23	724	Oct 23	858	Oct 23 1990
LOWEST DAILY MEAN	6.6	Aug 13	3.9	Aug 14	.28	Nov 14 1965
ANNUAL SEVEN-DAY MINIMUM	7.2	Aug 7	5.0	Aug 9	.55	Nov 13 1965
INSTANTANEOUS PEAK FLOW			1110	Oct 23	a1490	Apr 16 1952
INSTANTANEOUS PEAK STAGE			5.99	Oct 23	6.96	Apr 16 1952
INSTANTANEOUS LOW FLOW			3.3	Aug 14	.16	Nov 15 1965
ANNUAL RUNOFF (AC-FT)	52190		45790		30250	
ANNUAL RUNOFF (CFSM)	12.2		10.7		7.08	
ANNUAL RUNOFF (INCHES)	165.89		145.56		96.17	
10 PERCENT EXCEEDS	161		154		92	
50 PERCENT EXCEEDS	44		32		24	
90 PERCENT EXCEEDS	13		9.5		6.5	

\# See Period of Record; partial years used in monthly summary statistics
a From rating curve extended above 330 ft^3/s

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1956, 1959, and 1965 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1964, April 1965 to February 1975, June 1975 to April 1978, and November 1978 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set for 15-minute recording interval since April 11,1996.

REMARKS.--Records represent water-temperature at the sensor within 0.5ºC. Temperature at the sensor was compared with the stream average by cross section on July 18. No variation was found within the cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 18.5ºC, July 3, 1998; minimum, 0.0ºC, on many days during most winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 15.0ºC, July 8 and August 4; minimum, 0.0ºC, on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
JUL 2000							
18...	1136	24.5	4.00	1.75	8.6	12.5	15.5
18...	1137	24.5	9.0	1.75	8.6	12.5	15.5
18...	1138	24.5	14.0	1.75	8.6	12.5	15.5
18...	1139	24.5	19.0	1.75	8.6	12.5	15.5
18...	1140	24.5	24.0	1.75	8.6	12.5	15.5

15085100 OLD TOM CREEK NEAR KASAAN--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.0	8.0	8.5	6.0	5.0	5.5	3.5	3.0	3.5	2.5	2.0	2.0
2	9.0	8.0	8.5	6.0	5.5	6.0	3.5	3.0	3.5	2.0	1.5	1.5
3	9.0	8.0	8.5	5.5	4.5	5.0	3.5	3.0	3.5	2.0	.5	1.5
4	9.0	7.5	8.0	4.5	4.5	4.5	4.0	3.5	3.5	1.5	.5	1.5
5	9.0	8.5	8.5	5.0	4.5	4.5	4.0	3.5	3.5	2.0	1.5	1.5
6	9.0	8.0	8.5	5.0	4.5	5.0	3.5	2.5	3.0	2.0	1.5	2.0
7	8.5	8.0	8.0	5.0	5.0	5.0	3.0	2.5	2.5	2.5	2.0	2.5
8	8.5	8.0	8.5	5.0	4.5	5.0	2.5	2.0	2.0	2.5	1.5	2.0
9	8.0	7.0	7.5	5.5	5.0	5.0	3.0	2.0	2.5	2.0	1.5	2.0
10	8.0	7.0	7.5	5.0	5.0	5.0	3.0	2.5	3.0	1.5	1.0	1.5
11	8.0	7.0	7.5	5.0	5.0	5.0	3.0	2.5	2.5	1.0	.5	1.0
12	7.5	6.5	7.0	5.0	4.5	4.5	3.0	2.5	2.5	1.0	.5	1.0
13	8.0	7.0	7.5	4.5	4.5	4.5	2.5	1.5	2.0	1.0	.5	.5
14	7.0	6.5	7.0	5.0	4.5	5.0	2.0	1.5	2.0	.5	.5	.5
15	6.5	6.0	6.5	6.0	4.5	5.0	2.0	1.0	1.5	.5	.5	.5
16	7.5	6.5	7.0	6.0	5.0	5.5	2.0	2.0	2.0	.5	.5	.5
17	8.0	7.5	7.5	5.0	4.5	5.0	2.0	1.5	2.0	.5	.5	.5
18	8.0	7.0	7.5	5.0	5.0	5.0	1.5	1.0	1.5	.5	.5	.5
19	8.0	8.0	8.0	5.5	5.0	5.0	1.5	.0	1.0	.5	.5	.5
20	8.0	7.5	8.0	5.0	4.5	5.0	2.0	1.5	2.0	.5	.5	.5
21	8.5	7.5	8.0	4.5	4.5	4.5	2.5	2.0	2.5	1.0	.5	.5
22	8.0	7.5	8.0	4.5	4.0	4.5	2.5	2.0	2.0	1.0	.5	.5
23	8.0	7.5	8.0	4.0	3.5	4.0	2.5	2.0	2.0	.5	.5	.5
24	7.5	7.0	7.0	4.0	3.5	4.0	2.5	2.5	2.5	1.0	.5	.5
25	7.0	6.5	6.5	4.0	3.5	4.0	3.0	2.5	3.0	1.0	.5	.5
26	6.5	6.0	6.5	3.5	3.0	3.5	3.0	3.0	3.0	1.0	.5	.5
27	6.5	6.5	6.5	3.0	3.0	3.0	3.0	3.0	3.0	1.0	.0	.5
28	6.5	5.5	6.0	3.0	3.0	3.0	3.0	3.0	3.0	1.5	.5	1.0
29	5.5	4.5	5.0	3.5	3.0	3.5	3.0	2.5	2.5	2.0	1.5	1.5
30	5.5	5.5	5.5	3.5	3.0	3.5	2.5	2.5	2.5	2.0	1.5	2.0
31	5.5	4.5	5.0	---	---	---	2.5	2.5	2.5	2.0	1.5	2.0
MONTH	9.0	4.5	7.3	6.0	3.0	4.6	4.0	.0	2.5	2.5	.0	1.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.0	1.0	1.5	2.0	2.0	2.0	4.5	4.0	4.0	7.0	5.5	6.0
2	1.5	1.0	1.0	2.5	2.0	2.0	5.0	4.0	4.5	6.0	5.0	5.5
3	1.0	1.0	1.0	2.5	2.0	2.0	4.5	3.5	4.0	6.5	5.0	5.5
4	1.5	.5	1.0	2.5	2.0	2.0	4.5	4.0	4.0	6.5	5.0	5.5
5	1.0	.5	1.0	2.5	2.0	2.5	5.0	4.0	4.5	7.0	5.5	6.0
6	1.0	.5	1.0	2.5	2.0	2.0	4.5	3.5	4.0	7.0	4.5	5.5
7	2.0	1.0	1.5	2.0	1.5	2.0	4.5	3.5	4.0	6.5	4.5	5.5
8	2.0	1.5	2.0	2.0	1.5	1.5	5.0	3.5	4.5	6.0	4.0	5.0
9	2.0	1.5	2.0	2.0	1.5	2.0	5.0	4.0	4.5	7.5	4.0	5.0
10	1.5	.5	1.0	2.5	1.5	2.0	5.0	3.5	4.5	7.5	4.0	5.5
11	.5	.0	.5	2.5	2.0	2.5	5.5	4.5	5.0	7.5	4.0	5.5
12	.5	.0	.0	3.0	2.5	2.5	5.5	4.5	5.0	5.5	4.5	5.0
13	.0	.0	.0	3.0	2.5	2.5	5.0	3.5	4.0	7.5	4.0	5.5
14	.0	.0	.0	3.0	2.5	3.0	4.5	3.0	4.0	5.5	4.5	5.0
15	.0	.0	.0	3.0	2.5	3.0	4.5	3.0	3.5	7.0	4.0	5.5
16	.5	.0	.5	3.0	2.5	3.0	4.5	3.0	4.0	6.0	5.0	5.0
17	1.0	.5	.5	3.5	3.0	3.0	4.5	3.5	4.0	5.5	4.5	5.0
18	1.0	.5	1.0	3.5	3.0	3.5	5.0	4.5	4.5	6.0	4.5	5.0
19	1.0	.5	1.0	3.0	2.5	3.0	5.0	4.0	4.5	6.0	4.5	5.0
20	1.5	1.0	1.5	3.5	3.0	3.0	5.0	4.5	4.5	5.0	4.0	4.5
21	2.0	1.5	1.5	3.5	3.0	3.0	6.0	4.5	5.0	6.0	4.5	5.0
22	2.0	1.5	2.0	3.5	3.0	3.5	5.5	5.0	5.0	6.5	5.0	5.5
23	2.0	1.5	2.0	3.5	3.5	3.5	5.5	4.5	5.0	6.0	4.5	5.5
24	2.0	1.5	2.0	4.0	3.5	3.5	5.5	4.5	5.0	6.0	4.5	5.5
25	2.0	1.5	2.0	4.0	3.5	4.0	6.0	4.5	5.0	7.0	4.5	5.5
26	2.5	2.0	2.0	4.0	3.5	3.5	6.0	4.5	5.5	8.5	4.0	5.5
27	2.5	2.0	2.0	4.0	3.0	3.5	5.5	5.0	5.5	7.0	5.0	6.0
28	2.0	2.0	2.0	4.0	2.5	3.5	6.0	5.0	5.5	7.5	5.5	6.0
29	2.5	2.0	2.0	4.0	3.0	3.5	5.5	5.0	5.5	6.5	5.0	6.0
30	---	---	---	4.5	3.0	4.0	6.0	5.0	5.5	7.5	5.5	6.0
31	---	---	---	4.5	3.5	4.0	---	---	---	9.0	5.0	6.5
MONTH	2.5	.0	1.2	4.5	1.5	2.9	6.0	3.0	4.6	9.0	4.0	5.5

15085100 OLD TOM CREEK NEAR KASAAN--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.0	5.5	7.0	11.0	9.0	10.0	12.0	11.0	11.5	12.0	10.0	11.0
2	9.5	6.0	7.0	12.0	9.0	10.5	13.5	11.0	12.0	12.0	10.5	11.0
3	9.5	6.0	7.5	12.0	10.5	11.0	14.0	11.5	12.5	11.0	9.0	10.0
4	7.5	7.0	7.5	14.0	10.5	12.0	15.0	12.0	13.5	11.0	10.0	10.5
5	8.0	7.0	7.5	13.5	11.5	12.5	14.0	12.5	13.5	11.5	10.5	11.0
6	8.0	7.0	7.5	13.0	12.0	12.5	14.0	12.0	13.0	11.5	11.0	11.0
7	8.0	6.5	7.5	14.0	12.0	12.5	13.5	12.0	12.5	11.0	10.0	10.5
8	8.0	7.5	8.0	15.0	12.0	13.0	13.0	12.0	12.5	10.5	10.0	10.0
9	9.5	7.5	8.0	13.5	12.0	12.5	12.5	12.0	12.0	11.0	10.0	10.5
10	8.5	7.0	8.0	12.5	12.0	12.5	13.0	11.5	12.0	10.5	9.5	10.5
11	10.5	8.0	9.0	12.0	11.5	11.5	13.0	11.0	12.0	11.0	10.0	10.5
12	11.0	7.5	9.0	12.0	11.0	11.5	12.5	11.5	12.0	11.0	10.0	10.5
13	9.5	9.0	9.5	13.0	11.0	12.0	13.5	11.5	12.0	10.5	10.0	10.5
14	9.5	8.5	9.0	13.5	11.0	12.0	12.5	12.0	12.0	11.0	10.0	10.5
15	9.5	8.0	9.0	13.5	12.0	12.5	12.5	11.5	12.0	10.5	9.5	10.0
16	9.5	8.5	9.0	13.5	11.5	12.5	12.0	10.5	11.0	11.0	9.5	10.0
17	9.5	9.0	9.0	12.5	11.5	12.0	12.0	10.5	11.5	11.0	10.5	11.0
18	10.5	8.5	9.0	12.5	12.0	12.5	12.5	11.5	12.0	11.5	10.5	11.0
19	9.0	8.5	9.0	12.5	12.0	12.0	12.0	11.5	12.0	11.0	10.0	10.5
20	9.5	8.5	9.0	13.0	12.0	12.5	12.0	11.5	12.0	10.5	10.0	10.0
21	10.0	8.0	9.0	14.0	12.0	13.0	12.0	11.5	11.5	10.0	9.0	9.5
22	10.0	8.5	9.0	13.5	12.5	13.0	13.5	12.0	12.5	10.0	9.0	9.5
23	11.5	8.0	9.0	14.0	13.0	13.5	12.5	11.5	12.0	10.5	9.0	10.0
24	12.0	8.0	10.0	13.5	12.5	13.0	12.0	11.0	11.5	11.0	9.5	10.0
25	12.5	10.0	11.0	12.5	11.5	12.0	11.5	11.0	11.0	10.5	9.5	10.0
26	14.5	10.5	12.0	12.0	11.5	12.0	11.5	10.5	11.0	10.0	9.5	10.0
27	14.0	11.5	12.5	12.0	11.0	11.5	11.0	10.0	10.5	10.0	9.5	10.0
28	14.0	12.0	13.0	12.0	11.0	11.5	11.0	10.5	10.5	10.5	9.5	10.0
29	12.0	10.5	11.5	12.5	11.5	12.0	12.5	11.0	11.5	10.0	8.5	9.5
30	10.5	10.0	10.5	12.5	11.5	12.0	12.5	11.0	12.0	9.0	8.0	8.5
31	---	---	---	13.0	11.5	12.0	12.0	10.5	11.0	---	---	---
MONTH	14.5	5.5	9.1	15.0	9.0	12.1	15.0	10.0	11.9	12.0	8.0	10.2

15086960 SUNRISE LAKE OUTLET NEAR WRANGELL

LOCATION.--Lat 56°24′44″, long 132°29′30″, in NE¼ NW¼ sec. 17, T. 63 S., R. 83 E.(Petersburg B-2 quad), Hydrologic Unit 19010202, on Woronkofski Island, in the Tongass National Forest, on the right bank, 75 ft downstream from Sunrise Lake outlet and 6.5 mi southwest of Wrangell.

DRAINAGE AREA.--1.17 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--September 1977 to September 1980, October 1997 to current year. Prior to October 1997 at a site 350 ft upstream at different datum.

GAGE.--Water-stage recorder. Elevation of gage is 1950 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 40 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 03	1229	41	8.62	July 24	2044	122	9.35
Oct 21	Unknown	112	a9.28	July 28	2044	122	9.35
Dec 25	2314	128	9.39	Aug 21	2314	*205	*9.83
May 18	0544	43	8.65	Sep 04	2259	52	8.76
June 14	0859	62	8.86	Sep 11	1214	44	8.66
June 17	0159	67	8.91	Sep 14	0614	43	8.65
June 20	0644	57	8.81	Sep 16	1529	71	8.95
July 19	1229	80	9.03				

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	9.3	12	7.5	8.2	e3.7	3.5	e11	14	21	23	14	5.1
2	8.8	24	12	6.7	e3.2	4.3	e6.0	11	23	21	9.3	3.8
3	30	17	7.8	4.9	e2.8	5.1	e6.4	12	24	22	7.3	3.1
4	20	12	7.1	e4.2	e2.4	3.7	e5.5	14	27	22	6.3	17
5	12	9.7	6.2	e3.8	e2.1	e2.3	e4.8	14	28	22	5.9	29
6	15	8.0	5.1	e6.0	e1.8	e1.8	e3.6	12	32	24	5.0	23
7	28	7.5	4.8	e9.0	e2.0	e1.5	e3.2	11	26	24	4.2	26
8	29	7.2	4.8	13	e2.2	e1.4	e3.0	9.9	23	22	4.7	15
9	20	9.6	5.0	11	e2.0	e1.2	e2.5	9.9	22	21	9.6	20
10	18	11	4.9	6.9	e1.8	e1.2	e2.2	12	20	20	7.0	10
11	22	12	5.1	4.8	e1.7	e1.2	e2.1	14	25	17	5.0	32
12	20	9.9	4.7	e4.0	e1.6	e1.2	e2.2	16	24	19	3.7	19
13	e40	8.2	4.3	e3.4	e1.6	e1.5	e3.0	16	35	17	3.1	12
14	26	7.8	3.3	e3.0	e1.6	e1.7	3.0	16	54	17	2.9	32
15	16	9.1	2.9	e2.6	e1.5	e2.0	2.7	13	32	16	8.7	16
16	26	30	4.1	e2.3	1.5	1.8	2.5	14	34	18	12	54
17	28	24	3.8	e2.2	1.6	1.6	2.5	26	53	17	10	50
18	18	16	3.5	e2.0	2.1	3.3	2.1	38	32	27	7.8	27
19	23	29	2.8	e1.8	2.8	e2.4	2.4	27	29	65	5.8	13
20	25	22	4.3	e1.7	4.6	e2.0	4.5	e15	50	35	16	9.8
21	e66	14	7.5	e1.6	4.2	e2.5	8.4	e13	31	20	88	6.6
22	e50	12	14	e1.5	3.2	e3.8	8.2	e28	25	16	110	4.8
23	e52	8.5	20	e1.4	3.0	e3.0	6.1	e20	22	30	22	3.8
24	e40	8.8	31	e1.4	3.3	2.3	4.5	e13	21	82	10	e3.4
25	25	8.5	77	e1.3	3.1	2.1	3.9	e11	24	58	16	e3.0
26	21	6.8	93	e1.3	2.7	5.2	4.0	e10	27	23	16	e3.4
27	24	5.4	47	e2.0	2.7	4.9	4.2	e12	29	25	9.8	e3.0
28	17	4.8	31	e5.0	2.3	2.0	5.0	e16	31	36	21	e9.0
29	13	4.6	19	e4.6	2.6	1.7	6.7	e18	31	32	15	e21
30	15	4.2	12	e4.4	---	e2.5	10	e18	24	19	9.0	e17
31	12	---	9.9	e4.6	---	e7.0	---	20	---	19	7.3	---
TOTAL	769.1	363.6	465.4	130.6	71.7	81.7	136.2	493.8	879	829	472.4	491.8
MEAN	24.8	12.1	15.0	4.21	2.47	2.64	4.54	15.9	29.3	26.7	15.2	16.4
MAX	66	30	93	13	4.6	7.0	11	38	54	82	110	54
MIN	8.8	4.2	2.8	1.3	1.5	1.2	2.1	9.9	20	16	2.9	3.0
AC-FT	1530	721	923	259	142	162	270	979	1740	1640	937	975
CFSM	21.2	10.4	12.8	3.60	2.11	2.25	3.88	13.6	25.0	22.9	13.0	14.0
IN.	24.45	11.56	14.80	4.15	2.28	2.60	4.33	15.70	27.95	26.36	15.02	15.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)#

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	18.6	8.25	8.49	5.51	3.49	3.99	7.19	18.5	20.7	14.6	10.1	11.6
MAX	24.8	12.1	15.0	9.55	6.86	6.59	9.81	19.9	31.6	26.7	15.2	17.5
(WY)	2000	2000	2000	1999	1980	1980	1980	1978	1999	2000	2000	1999
MIN	12.5	4.24	4.20	2.26	1.60	2.44	4.54	15.9	9.88	5.91	3.47	7.04
(WY)	1980	1999	1999	1979	1979	1978	2000	2000	1998	1998	1979	1977

\# See Period of Record
a From high water mark
e Estimated

15086960 SUNRISE LAKE OUTLET NEAR WRANGELL--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000#	
ANNUAL TOTAL	5383.6		5184.3			
ANNUAL MEAN	14.7		14.2		11.1	
HIGHEST ANNUAL MEAN					14.2	2000
LOWEST ANNUAL MEAN					8.66	1978
HIGHEST DAILY MEAN	93	Dec 26	110	Aug 22	110	Aug 22 2000
LOWEST DAILY MEAN	1.4	Mar 9	a1.2	Mar 9	b.93	Feb 24 1979
ANNUAL SEVEN-DAY MINIMUM	1.6	Mar 3	1.3	Mar 7	.94	Feb 23 1979
INSTANTANEOUS PEAK FLOW			205	Aug 21	c205	Aug 21 2000
INSTANTANEOUS PEAK STAGE			9.83	Aug 21	9.83	Aug 21 2000
ANNUAL RUNOFF (AC-FT)	10680		10280		8010	
ANNUAL RUNOFF (CFSM)	12.6		12.1		9.45	
ANNUAL RUNOFF (INCHES)	171.17		164.83		128.43	
10 PERCENT EXCEEDS	31		30		25	
50 PERCENT EXCEEDS	12		9.6		7.5	
90 PERCENT EXCEEDS	2.0		2.1		2.2	

\# See Period of Record
a Mar. 9 to Mar. 12
b Feb. 24 to Feb. 28
c From rating curve extended above 50 ft^3/s

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1978, 1980, January 1998 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1998 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder with 15-minute recording interval, started on January 27, 1998.

REMARKS.--Records represent water temperature at the sensor within 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 20.0°C, July 4-5: minimum recorded 0.0°C, on many days during the winter.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 14.5°C, Aug 6 ; minimum recorded, 0.0°C, on many days during the winter.

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

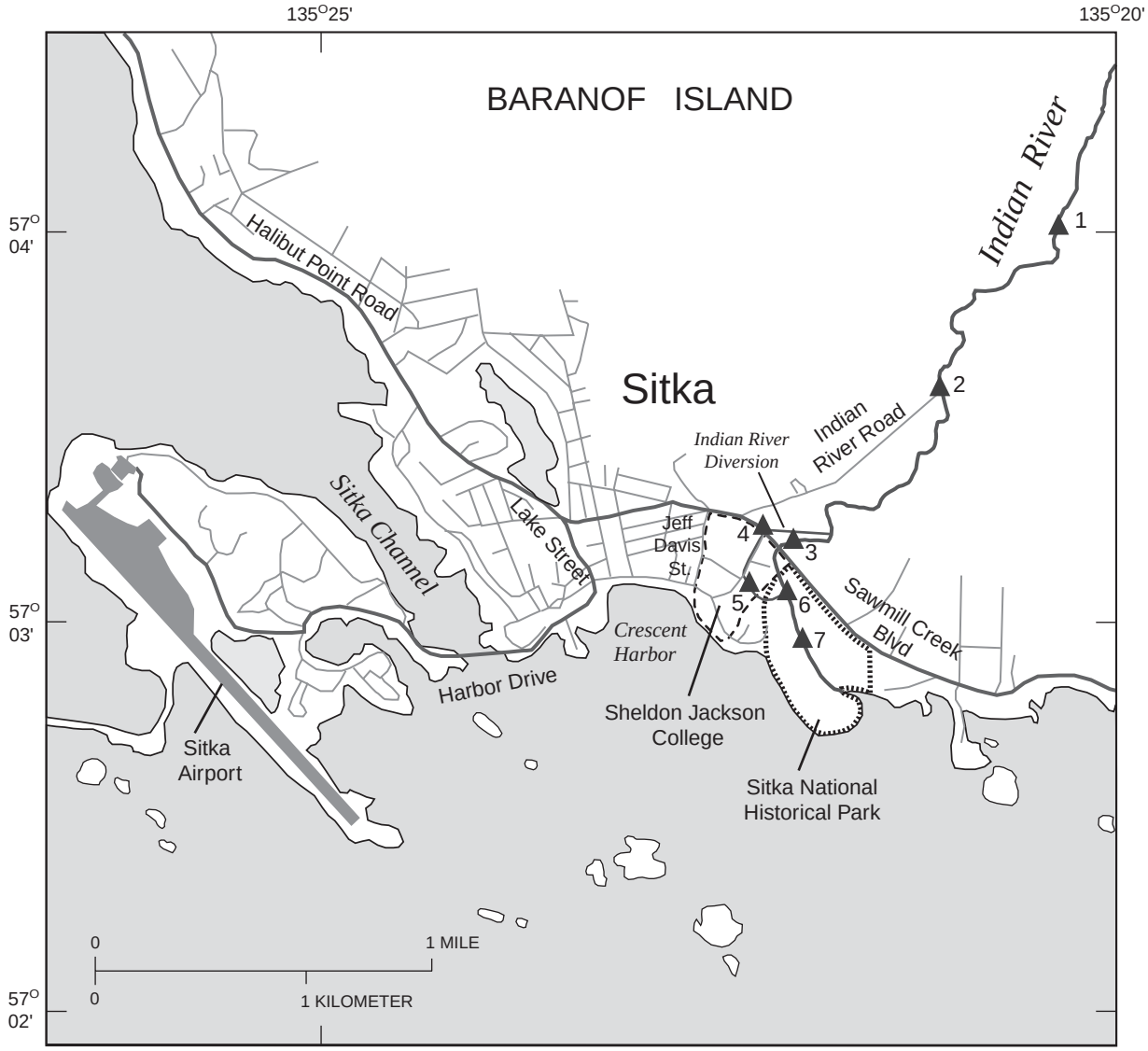
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEA
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.5	7.0	7.0	3.0	2.5	2.5	.5	.0	.0	.5	.0	.5
2	7.5	7.0	7.0	3.0	2.0	2.5	.5	.0	.0	.5	.0	.5
3	7.0	7.0	7.0	2.5	1.5	2.0	.5	.0	.0	.5	.0	.0
4	7.0	6.5	7.0	2.0	1.5	2.0	.5	.0	.5	.5	.0	.5
5	7.0	6.5	7.0	2.0	2.0	2.0	.5	.0	.5	.5	.0	.0
6	7.0	6.5	6.5	2.0	2.0	2.0	.5	.0	.0	.0	.0	.0
7	6.5	6.5	6.5	2.0	1.5	2.0	.5	.0	.5	.0	.0	.0
8	7.0	6.5	6.5	2.0	1.5	2.0	.5	.0	.0	.0	.0	.0
9	6.5	6.0	6.5	2.0	1.5	2.0	.5	.0	.5	.5	.0	.0
10	6.0	6.0	6.0	2.0	1.5	1.5	.5	.0	.5	.5	.0	.0
11	6.0	5.5	6.0	2.0	1.5	1.5	.5	.0	.5	.5	.0	.0
12	5.5	5.0	5.5	1.5	1.5	1.5	.5	.0	.5	---	---	---
13	5.5	5.0	5.5	1.5	1.0	1.5	.5	.0	.5	---	---	---
14	5.5	5.0	5.5	1.5	1.0	1.5	.5	.0	.0	---	---	---
15	5.0	4.0	4.5	2.0	.5	1.5	.0	.0	.0	---	---	---
16	5.0	4.0	4.5	2.0	2.0	2.0	.5	.0	.0	---	---	---
17	5.0	5.0	5.0	2.0	1.5	1.5	.5	.0	.0	.0	.0	.0
18	5.0	5.0	5.0	1.5	1.5	1.5	.5	.0	.5	---	---	---
19	5.0	5.0	5.0	1.5	1.5	1.5	.0	.0	.0	---	---	---
20	5.0	5.0	5.0	1.5	1.0	1.0	.0	.0	.0	---	---	---
21	5.0	5.0	5.0	1.0	.5	1.0	.5	.0	.0	.0	.0	.0
22	5.0	5.0	5.0	1.0	.5	.5	.5	.0	.5	.0	.0	.0
23	5.0	4.5	5.0	.5	.5	.5	.5	.5	.5	.0	.0	.0
24	5.0	4.5	4.5	.5	.0	.5	.5	.5	.5	.0	.0	.0
25	4.5	4.0	4.5	.5	.0	.5	.5	.5	.5	.5	.0	.0
26	4.0	3.5	4.0	.5	.0	.5	.5	.5	.5	.0	.0	.0
27	4.0	3.5	4.0	.5	.0	.5	.5	.5	.5	.0	.0	.0
28	4.0	3.5	3.5	.5	.0	.5	.5	.5	.5	.0	.0	.0
29	3.5	3.0	3.5	.5	.5	.5	.5	.5	.5	.0	.0	.0
30	3.5	2.0	3.0	.5	.0	.5	.5	.5	.5	.0	.0	.0
31	3.0	2.5	2.5	---	---	---	.5	.0	.5	.0	.0	.0
MONTH	7.5	2.0	5.3	3.0	.0	1.4	.5	.0	.3	---	---	---

15086960 SUNRISE LAKE OUTLET NEAR WRANGELL--Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	.0	.0
2	.0	.0	.0	.0	.0	.0	.5	.0	.5	.5	.0	.0
3	.0	.0	.0	.0	.0	.0	.5	.0	.5	.5	.0	.0
4	.0	.0	.0	.0	.0	.0	.5	.0	.5	.5	.0	.0
5	.0	.0	.0	.0	.0	.0	.5	.0	.5	.5	.0	.0
6	.0	.0	.0	.0	.0	.0	.5	.0	.0	.5	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
12	.5	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.5
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.5	.5
30	---	---	---	.0	.0	.0	.0	.0	.0	.5	.0	.5
31	---	---	---	.0	.0	.0	---	---	---	.5	.0	.5
MONTH	.5	.0	.0	.0	.0	.0	.5	.0	.1	.5	.0	.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	.5	.0	.5	2.5	1.5	2.0	10.5	9.0	9.5	11.5	10.5	10.5
2	.5	.5	.5	2.5	1.5	2.0	11.5	9.5	10.0	11.5	10.0	10.5
3	.5	.5	.5	3.0	2.0	2.5	13.5	11.0	11.5	11.5	10.0	10.5
4	.5	.5	.5	3.0	2.0	2.5	14.0	11.0	12.5	11.0	9.0	9.5
5	.5	.5	.5	3.5	2.5	3.0	14.0	12.5	13.5	10.0	9.0	9.5
6	.5	.5	.5	3.5	3.0	3.0	14.5	13.0	14.0	10.0	9.0	9.0
7	.5	.5	.5	3.5	3.0	3.5	14.0	13.5	14.0	9.0	8.5	9.0
8	.5	.5	.5	5.0	3.0	3.5	14.0	13.5	14.0	9.0	8.5	9.0
9	.5	.5	.5	6.0	4.0	4.5	13.5	13.0	13.0	9.0	8.5	9.0
10	1.0	.5	.5	6.0	4.5	5.5	13.5	13.0	13.0	9.5	8.5	9.0
11	.5	.5	.5	6.5	5.0	5.5	13.5	13.0	13.5	9.0	8.5	8.5
12	1.0	.5	.5	7.0	5.5	6.0	13.5	13.0	13.0	9.5	8.5	9.0
13	.5	.5	.5	7.5	5.0	6.0	13.0	13.0	13.0	9.0	8.5	8.5
14	1.0	.5	.5	8.5	5.5	7.5	13.0	12.0	13.0	9.0	8.5	8.5
15	1.0	.5	.5	8.5	8.0	8.5	12.0	11.0	11.5	8.5	8.0	8.5
16	1.0	.5	.5	9.5	6.5	8.0	11.0	10.0	10.5	8.5	8.0	8.0
17	1.0	.5	.5	10.0	9.0	9.5	11.0	10.0	10.5	8.5	8.0	8.5
18	1.0	.5	.5	9.5	8.5	9.0	11.0	10.0	10.5	9.0	8.0	8.5
19	1.0	.5	.5	8.5	7.5	8.0	11.0	10.5	11.0	8.5	8.0	8.5
20	1.0	.5	.5	9.0	7.0	7.5	10.5	10.0	10.5	8.5	8.0	8.0
21	1.0	.5	1.0	9.0	8.0	8.5	10.0	9.5	10.0	9.0	8.0	8.5
22	1.0	.5	1.0	9.0	8.0	8.5	10.5	9.5	10.0	9.5	8.0	8.5
23	1.5	.5	1.0	9.0	9.0	9.0	10.0	9.5	10.0	9.5	8.5	9.0
24	1.5	.5	1.0	9.0	7.5	8.0	10.5	10.0	10.0	10.0	9.0	9.5
25	1.5	1.0	1.0	9.5	8.0	9.0	10.0	9.5	10.0	10.5	9.5	10.0
26	1.5	1.0	1.0	9.0	8.0	8.5	10.0	9.5	10.0	10.5	9.5	10.0
27	1.5	1.0	1.5	9.0	8.5	8.5	10.5	9.5	10.0	9.5	8.5	9.0
28	1.5	1.0	1.5	8.5	8.5	8.5	10.0	9.0	9.5	9.0	8.5	8.5
29	2.0	1.5	1.5	9.5	8.5	9.0	11.0	9.5	10.0	8.5	8.0	8.5
30	2.0	1.5	1.5	9.0	9.0	9.0	11.0	10.5	11.0	8.5	8.0	8.0
31	---	---	---	9.5	8.5	9.0	11.0	10.0	10.5	---	---	---
MONTH	2.0	.0	.7	10.0	1.5	6.5	14.5	9.0	11.4	11.5	8.0	9.0



EXPLANATION

▲1 Discharge site and map number

Map No.	Station No.	Station Name	Map No.	Station No.	Station Name
* 1	15087690	Indian River near Sitka	* 5	15087735	Indian River Diversion Return Flow from Sheldon Jackson College at Sitka
2	15087695	Indian River above CBS pumphouse near Sitka	6	15087740	Indian River Diversion Return Flow at Mouth at Sitka
* 3	15087700	Indian River at Sitka	7	15087750	Indian River at Mouth at Sitka
* 4	15087730	Indian River Diversion to Sheldon Jackson College at Sawmill Cr Rd at Sitka			

* Daily discharge site

Locations of gaging stations in the Sitka area.

15087690 INDIAN RIVER NEAR SITKA

LOCATION.--Lat 57°04′01″, long 135°17′42″, in SW¼ SE¼ sec. 30, T. 55 S., R. 64 E. (Sitka A-4 quad), Hydrologic Unit l9010203, in Tongass National Forest, on Baranof Island, on right bank 2 mi upstream from mouth, and 1 mi northeast of Sitka.

DRAINAGE AREA.--10.1 mi^2

PERIOD OF RECORD.--August 1980 to September 1993. October 1998 to current year.

REVISED RECORD.--WDR-82-1: 1980-81.

GAGE.--Water-stage recorder. Elevation of gage is 125 ft above sea level, from topographic map. Prior to October 1998, at site 200 ft upstream and at different datum

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of November 19, 1993, reached a stage of 14.04 ft, site and datum then in use, from recorder, discharge, 6,460 ft^3/s.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1200 ft^3/s and maximum(*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 19	0315	2030	12.03	Dec 27	1715	2240	12.20
Dec 25	1015	2630	12.49	Sep 4	1415	*3320	*12.92

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	73	438	52	107	58	29	133	e70	98	101	80	53
2	131	165	52	91	49	35	106	e66	99	94	65	44
3	260	114	50	82	46	50	102	e76	99	77	58	41
4	103	105	55	77	45	35	87	e83	107	72	58	1150
5	79	97	85	71	45	29	79	e77	115	69	56	223
6	104	80	94	165	45	25	83	e74	117	72	50	158
7	236	76	49	122	53	23	125	e76	110	71	45	207
8	309	67	44	112	49	21	116	e79	100	63	44	129
9	211	71	43	76	43	20	75	e83	92	60	45	148
10	154	66	73	66	39	20	64	84	90	63	40	87
11	185	55	81	60	35	20	59	93	90	66	37	318
12	130	50	51	54	33	21	57	101	84	59	34	164
13	231	45	39	50	31	23	57	91	88	53	31	157
14	173	42	34	44	29	31	53	77	118	51	31	259
15	122	42	35	42	27	26	50	73	105	58	41	153
16	443	124	35	39	26	29	49	72	122	60	39	441
17	376	110	31	36	25	42	e46	84	154	63	34	440
18	344	60	28	34	41	50	e92	145	140	83	31	216
19	822	67	87	31	85	33	e86	164	129	145	29	123
20	286	74	198	30	69	53	e102	111	143	214	160	98
21	237	90	239	28	43	53	e97	99	163	99	185	79
22	199	98	288	26	34	43	e76	222	131	94	223	67
23	170	92	222	28	31	50	e67	164	109	143	184	60
24	214	172	439	25	38	97	e60	113	102	171	104	53
25	189	127	1220	22	35	109	e56	95	103	111	83	47
26	186	74	366	22	41	213	e57	89	103	92	78	42
27	224	61	1120	197	34	133	e59	93	96	87	68	38
28	157	54	667	89	29	80	e61	101	94	89	99	50
29	129	49	216	78	28	93	e64	108	86	93	75	61
30	123	45	140	73	---	104	e67	99	72	78	76	56
31	130	---	124	93	---	230	---	96	---	95	67	---
TOTAL	6730	2810	6257	2070	1186	1820	2285	3058	3259	2746	2250	5162
MEAN	217	93.7	202	66.8	40.9	58.7	76.2	98.6	109	88.6	72.6	172
MAX	822	438	1220	197	85	230	133	222	163	214	223	1150
MIN	73	42	28	22	25	20	46	66	72	51	29	38
AC-FT	13350	5570	12410	4110	2350	3610	4530	6070	6460	5450	4460	10240
CFSM	21.5	9.27	20.0	6.61	4.05	5.81	7.54	9.77	10.8	8.77	7.19	17.0
IN.	24.79	10.35	23.05	7.62	4.37	6.70	8.42	11.26	12.00	10.11	8.29	19.01

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000, BY WATER YEAR (WY)#

MEAN	194	103	106	103	82.3	62.5	70.8	109	91.0	63.1	89.9	177
MAX	293	218	207	184	154	122	111	167	166	111	238	295
(WY)	1988	1990	1990	1984	1993	1986	1983	1983	1985	1985	1983	1991
MIN	104	37.0	21.7	46.3	24.8	19.9	39.1	53.3	28.8	20.6	30.0	52.8
(WY)	1985	1999	1984	1988	1999	1989	1981	1981	1993	1993	1989	1986

\# See Period of Record
e Estimated

15087690 INDIAN RIVER NEAR SITKA--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000#	
ANNUAL TOTAL	40211		39633			
ANNUAL MEAN	110		108		105	
HIGHEST ANNUAL MEAN					123	1987
LOWEST ANNUAL MEAN					84.1	1982
HIGHEST DAILY MEAN	1220	Dec 25	1220	Dec 25	2000	Oct 12 1982
LOWEST DAILY MEAN	17	Jan 1	a20	Mar 9	8.6	Jan 18 1989
ANNUAL SEVEN-DAY MINIMUM	18	Mar 4	21	Mar 7	10	Jan 13 1989
INSTANTANEOUS PEAK FLOW			b3320	Sep 4	c5710	Sep 4 1990
INSTANTANEOUS PEAK STAGE			12.92	Sep 4	d13.51	Sep 4 1990
INSTANTANEOUS LOW FLOW			f19	Mar 10	8.2	Jan 19 1989
ANNUAL RUNOFF (AC-FT)	79760		78610		75850	
ANNUAL RUNOFF (CFSM)	10.9		10.7		10.4	
ANNUAL RUNOFF (INCHES)	148.10		145.98		140.85	
10 PERCENT EXCEEDS	219		201		193	
50 PERCENT EXCEEDS	77		78		69	
90 PERCENT EXCEEDS	25		33		29	

\# See Period of Record
a Mar. 9 to Mar. 11.
b From rating curve extended above 300 ft^3/s
c From rating curve extended above 3,100 ft^3/s, at site and datum then in use
d At site and datum then in use
f Mar. 10 and 11.

15087700 INDIAN RIVER AT SITKA

LOCATION.--Lat 57°03′12″, long 135°18′52″, in NE¼ SW¼ SE¼ sec. 36, T. 55 S., R. 63 E. (Sitka A-4 quad), Hydrologic Unit l9010203, Greater Sitka Borough, in Tongass National Forest, on Baranof Island, on right bank 500 ft upstream from Sawmill Creek Road, 600 ft downstream from Sheldon Jackson College Diversion, and 0.6 mi above mouth.

DRAINAGE AREA.--12.0 mi^2

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

GAGE.--Water-stage recorder. Elevation of gage is 30 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records good. Flow is diverted 600 ft upstream to Sheldon Jackson College.

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	59	614	37	80	45	20	112	45	67	72	55	41
2	126	150	41	63	35	23	75	41	67	65	45	35
3	330	89	36	55	32	39	72	51	67	52	40	32
4	88	84	42	50	30	25	59	56	73	48	39	1590
5	64	76	71	48	31	21	53	52	80	46	38	335
6	88	59	84	205	31	19	60	46	83	48	34	164
7	247	56	38	123	37	18	105	48	78	48	31	251
8	359	50	31	105	35	17	94	49	71	42	30	130
9	215	51	30	56	29	17	53	52	65	40	30	164
10	136	50	63	46	26	17	44	54	62	43	28	83
11	181	38	77	41	23	17	39	60	63	45	26	394
12	108	33	43	36	22	17	37	70	59	41	24	169
13	234	27	27	32	21	18	37	63	62	35	24	162
14	158	26	23	29	20	21	34	52	86	34	23	318
15	98	25	24	27	19	19	31	50	78	38	28	148
16	533	90	25	26	19	21	30	49	94	40	27	659
17	399	90	21	23	18	30	29	57	125	43	25	646
18	353	42	19	22	29	39	66	111	120	58	23	244
19	1100	48	75	22	73	23	59	146	108	126	22	109
20	324	58	197	21	57	42	77	85	109	255	153	87
21	229	73	227	20	32	43	72	68	140	72	189	68
22	178	83	286	20	24	31	59	232	99	64	241	59
23	140	77	203	21	21	39	44	150	78	121	173	53
24	197	164	540	19	28	99	39	84	71	165	78	49
25	159	114	1660	18	24	99	36	67	71	84	61	44
26	168	58	368	19	30	283	35	60	77	65	57	40
27	219	45	1620	321	24	129	37	63	81	61	51	36
28	127	37	1110	88	20	62	38	69	72	61	78	47
29	97	32	222	71	20	72	40	76	58	67	58	60
30	97	28	113	57	---	90	41	69	49	54	57	54
31	106	---	101	76	---	266	---	66	---	66	52	---
TOTAL	6917	2467	7454	1840	855	1676	1607	2241	2413	2099	1840	6271
MEAN	223	82.2	240	59.4	29.5	54.1	53.6	72.3	80.4	67.7	59.4	209
MAX	1100	614	1660	321	73	283	112	232	140	255	241	1590
MIN	59	25	19	18	18	17	29	41	49	34	22	32
AC-FT	13720	4890	14790	3650	1700	3320	3190	4450	4790	4160	3650	12440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)

MEAN	235	60.1	154	92.0	26.6	41.1	80.7	106	105	65.1	53.1	168
MAX	248	82.2	240	125	29.5	54.1	108	139	130	67.7	59.4	209
(WY)	1999	2000	2000	1999	2000	2000	1999	1999	1999	2000	2000	2000
MIN	223	38.0	66.8	59.4	23.6	28.2	53.6	72.3	80.4	62.5	46.8	127
(WY)	2000	1999	1999	2000	1999	1999	2000	2000	2000	1999	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000	
ANNUAL TOTAL	40892		37680			
ANNUAL MEAN	112		103		99.4	
HIGHEST ANNUAL MEAN					103	2000
LOWEST ANNUAL MEAN					95.7	1999
HIGHEST DAILY MEAN	1660	Dec 25	1660	Dec 25	2390	Oct 19 1998
LOWEST DAILY MEAN	14	Mar 8	17	Mar 8	14	Mar 8 1999
ANNUAL SEVEN-DAY MINIMUM	16	Mar 4	17	Mar 7	16	Mar 4 1999
INSTANTANEOUS PEAK FLOW			a3690	Sep 4	a5740	Oct 19 1998
INSTANTANEOUS PEAK STAGE			25.82	Sep 4	26.84	Oct 19 1998
INSTANTANEOUS LOW FLOW			b16	Mar 9	14	Mar 9 1999
ANNUAL RUNOFF (AC-FT)	81110		74740		71980	
10 PERCENT EXCEEDS	220		204		181	
50 PERCENT EXCEEDS	65		57		57	
90 PERCENT EXCEEDS	22		23		23	

a From rating curve extended above 1050 ft^3/s
b Mar. 9 to Mar. 11

15087730 INDIAN RIVER DIVERSION TO SHELDON JACKSON COLLEGE AT SAWMILL CREEK ROAD AT SITKA

LOCATION.--Lat 57°03′13″, long 135°19′04″, in NE¼ SW¼ SE¼ sec. 36, T. 55 S., R. 63 E. (Sitka A-4 SW quad), Hydrologic Unit 19010203, Greater Sitka Borough, on Baranof Island, in Tongass National Forest, on left bank 1,500 ft downstream from point of diversion from Indian River in Sitka.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1998 to September 2000 (discontinued).

GAGE.--Water-stage recorder. Datum of gage is 70 ft above sea level, determined by levels survey.

REMARKS.--No estimated daily discharges. Records fair.

COOPERATION.--Records were provided by the National Park Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 59 ft^3/s October 20, 1998; gage height 3.02 ft; no flow all or parts of November 2-13, 1998, April 29-30 and August 13, 1999, and June 18-19, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 52 ft^3/s September 17, gage height 2.95 ft; no flow parts of June 18-19.

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	29	36	27	28	28	15	37	27	34	34	31	28
2	30	33	28	26	25	19	35	26	34	33	28	25
3	33	32	27	26	23	27	34	29	34	31	26	24
4	30	32	28	25	22	21	33	30	34	29	26	41
5	29	31	31	24	23	16	32	30	35	28	26	41
6	30	30	32	30	23	13	33	29	35	29	24	41
7	34	30	27	29	26	12	35	26	35	29	21	---
8	35	29	25	28	25	10	36	26	32	27	21	---
9	34	29	25	25	22	7.2	32	27	29	26	21	---
10	34	29	29	23	20	2.7	29	30	28	27	19	---
11	34	27	32	22	18	2.3	27	33	29	28	17	---
12	33	26	28	21	17	2.9	26	34	28	26	16	41
13	35	25	24	19	15	10	26	33	29	24	14	39
14	34	24	21	18	14	15	25	31	31	23	14	43
15	33	24	21	18	13	13	24	30	30	25	20	40
16	37	33	22	17	12	15	24	29	33	26	19	46
17	37	33	20	15	12	23	23	29	36	27	16	46
18	36	29	18	15	19	26	33	36	13	32	14	42
19	38	29	26	14	32	18	34	38	13	36	12	38
20	36	31	36	13	32	28	33	35	37	38	31	37
21	37	32	37	13	24	28	35	34	37	34	37	34
22	37	32	37	13	19	23	34	39	38	34	38	33
23	34	32	36	14	17	27	29	38	39	38	37	31
24	35	34	38	12	22	31	26	35	38	38	34	29
25	35	33	42	10	20	36	24	34	38	34	33	27
26	35	31	39	11	24	39	24	33	32	33	32	27
27	35	29	40	34	20	37	24	33	21	32	31	24
28	34	28	38	34	16	33	25	34	26	32	34	27
29	33	26	34	33	15	33	26	35	32	33	32	31
30	33	25	30	31	---	35	26	34	30	31	33	30
31	33	---	29	33	---	38	---	34	---	33	32	---
TOTAL	1052	894	927	674	598	656.1	884	991	940	950	789	---
MEAN	33.9	29.8	29.9	21.7	20.6	21.2	29.5	32.0	31.3	30.6	25.5	---
MAX	38	36	42	34	32	39	37	39	39	38	38	---
MIN	29	24	18	10	12	2.3	23	26	13	23	12	---
AC-FT	2090	1770	1840	1340	1190	1300	1750	1970	1860	1880	1560	---

CAL YR 1999 TOTAL 6790.7 MEAN 18.6 MAX 42 MIN 3.6 AC-FT 13470

15087735 INDIAN RIVER DIVERSION RETURN FLOW FROM SHELDON JACKSON COLLAGE AT SITKA

LOCATION.--Lat 57°03′05″, long 135°19′11″, in SE¼ SW¼ SE¼ sec.36, T.55 S., R.63 E. (Sitka A-4 quad), Hydrologic Unit l9010203, Greater Sitka Borough, on Baranof Island, in Tongass National Forest, on Sheldon Jackson College campus, on left bank 2500 feet downstream from point of diversion from Indian River in Sitka.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--October 1998 to September 2000 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 70 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records poor.

COOPERATION.--Records were provided by the National Park Service.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 55 ft^3/s, revised, October 20, 1998, gage height, 7.08. Minimum discharge recorded, no flow March 9-11, 2000.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 46 ft^3/s September 16, gage height, 6.62. Minimum discharge, no flow March 9-11.

REVISIONS.--The maximum discharge for the water year 1999 has been revised to 55 ft^3/s, October 20, 1998, gage height, 7.08 ft.

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	19	---	20	19	17	6.1	29	20	25	29	22	18
2	---	---	21	17	14	9.9	27	19	25	28	20	16
3	---	---	20	16	12	19	26	22	25	26	17	15
4	---	---	22	15	11	12	25	23	25	24	17	32
5	---	---	24	14	11	7.1	24	23	26	23	17	31
6	---	---	25	20	11	3.3	25	22	26	24	15	31
7	---	---	22	19	14	1.7	27	18	26	24	13	34
8	---	---	20	18	13	.89	28	19	23	20	12	30
9	---	---	19	15	10	.00	24	19	20	18	13	32
10	---	---	23	14	9.5	.00	21	21	20	19	10	28
11	---	---	26	13	9.4	.00	19	24	20	20	7.9	35
12	---	---	23	12	8.8	.38	19	26	19	18	6.0	32
13	---	---	18	12	6.9	.97	19	25	20	16	3.4	31
14	---	---	17	12	5.5	6.0	17	23	22	15	2.8	37
15	---	---	17	12	3.3	3.0	16	22	21	17	11	34
16	---	---	17	11	2.6	5.0	16	21	24	19	9.5	40
17	---	24	16	9.9	1.7	14	15	21	27	20	5.3	38
18	---	23	16	8.8	9.5	18	25	27	14	23	2.1	33
19	---	20	21	8.6	24	9.2	26	29	13	27	1.2	30
20	---	19	28	8.0	24	19	25	27	28	28	22	29
21	---	20	29	7.5	16	20	28	26	28	25	29	27
22	---	21	29	7.2	10	15	26	31	32	25	30	26
23	---	21	28	9.8	7.9	18	21	30	36	28	29	25
24	---	23	29	7.8	13	23	19	27	35	28	26	23
25	---	23	32	5.3	11	27	17	25	35	25	23	21
26	---	21	30	5.8	15	32	16	24	29	24	22	22
27	---	20	31	25	11	30	17	25	17	23	21	15
28	---	19	28	24	6.6	24	17	25	20	23	24	17
29	---	18	24	23	5.3	24	18	26	26	24	22	21
30	---	17	21	21	---	26	19	25	24	22	22	20
31	---	---	20	22	---	30	---	25	---	23	21	---
TOTAL	---	---	716	432.7	314.0	404.54	651	740	731	708	496.2	823
MEAN	---	---	23.1	14.0	10.8	13.0	21.7	23.9	24.4	22.8	16.0	27.4
MAX	---	---	32	25	24	32	29	31	36	29	30	40
MIN	---	---	16	5.3	1.7	.00	15	18	13	15	1.2	15
AC-FT	---	---	1420	858	623	802	1290	1470	1450	1400	984	1630

15088200 SILVER BAY TRIBUTARY AT BEAR COVE NEAR SITKA

LOCATION.--Lat 57°01′09″, long 135°09′45″, in SW¼ NW¼ NE¼ sec. 13, T. 56 S., R. 64 E. (Sitka A-4 quad), Hydrologic Unit l9010203, in Tongass National Forest, on Baranof Island, on right bank 350 ft upstream from mouth, and 6.5 mi southwest of Sitka.

DRAINAGE AREA.--0.38 mi^2

PERIOD OF RECORD.-- October 1999 to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 110 ft above sea level, from topographic map.

REMARKS.-- Records poor.

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	3.6	27	1.8	.92	1.4	.39	3.1	e2.4	7.3	e3.0	2.4	1.1
2	6.1	4.3	1.9	.54	.91	1.2	3.9	e2.1	7.4	e5.2	1.7	.64
3	8.3	2.2	2.6	.42	.68	1.7	2.6	e2.7	7.0	e4.2	1.4	.60
4	1.7	2.3	3.1	.36	.73	.71	1.6	e3.4	9.2	e3.8	1.5	41
5	1.2	3.3	5.6	.36	1.1	.45	1.3	e3.2	9.0	e3.2	2.1	8.1
6	7.6	3.0	4.3	6.9	1.2	.40	1.5	e3.4	7.8	e3.4	1.8	18
7	13	3.5	1.7	2.7	2.3	.35	4.7	e3.7	7.8	e3.9	1.5	12
8	9.2	3.9	1.3	2.4	1.7	.33	3.5	e4.0	5.7	e3.3	3.2	7.8
9	6.3	5.1	1.5	.72	1.2	.34	1.3	e4.4	5.3	e3.1	3.2	8.1
10	4.0	3.3	3.6	.43	.87	.38	1.1	e5.1	6.8	e2.7	1.6	1.5
11	7.0	2.6	3.6	.30	.60	.49	1.1	e7.0	4.9	e3.8	1.1	12
12	3.9	1.8	1.7	.23	.50	.71	1.1	11	5.6	e3.9	.88	4.7
13	15	1.6	1.2	.17	.45	1.2	e1.0	7.3	e6.0	2.7	.75	4.3
14	6.2	1.9	.95	.14	.42	2.0	e.90	5.4	e6.5	2.7	.87	7.4
15	3.2	4.8	1.1	.14	.37	1.0	e.80	4.1	e6.0	10	6.0	2.5
16	22	16	1.5	.13	.32	1.1	e.76	4.2	6.5	5.4	2.4	20
17	8.4	4.6	1.1	.12	.29	1.2	e.69	8.3	8.2	4.5	2.0	15
18	8.4	2.1	.87	.12	2.4	1.9	e4.2	11	8.3	7.6	1.1	4.0
19	19	3.9	3.8	.12	5.5	1.0	e4.0	10	5.2	9.5	.89	e2.2
20	5.7	3.9	11	.12	2.8	3.2	e4.5	4.7	5.7	14	17	e1.8
21	11	3.9	17	.13	1.3	2.4	e4.0	8.3	7.0	3.2	12	e1.6
22	5.4	3.3	19	.13	.73	1.5	e3.0	14	e5.6	3.5	15	e1.4
23	7.0	3.4	15	.14	.65	1.7	e2.1	6.0	e5.3	6.4	14	e1.3
24	8.4	13	21	.13	.98	4.7	e1.6	3.7	e4.8	14	2.3	e1.2
25	13	5.2	36	.12	.78	5.1	e1.1	3.1	e5.2	3.7	1.7	e1.2
26	6.0	2.1	16	.12	.93	14	e1.2	4.5	e5.5	2.8	2.6	e1.1
27	9.0	1.5	34	17	.66	5.7	e1.4	5.9	e5.0	3.1	2.2	e1.2
28	2.9	1.2	21	3.6	.43	1.7	e1.6	7.9	e4.3	4.1	11	e2.2
29	2.3	1.1	3.4	2.8	.35	4.3	e1.9	5.3	e3.7	3.6	2.5	e3.2
30	2.6	1.0	1.5	4.8	---	3.3	e2.1	4.9	e3.3	3.0	4.8	e3.7
31	5.6	---	1.4	5.8	---	8.6	---	6.6	---	5.4	2.6	---
TOTAL	233.0	136.8	239.52	52.11	32.55	73.05	63.65	177.6	185.9	152.7	124.09	190.84
MEAN	7.52	4.56	7.73	1.68	1.12	2.36	2.12	5.73	6.20	4.93	4.00	6.36
MAX	22	27	36	17	5.5	14	4.7	14	9.2	14	17	41
MIN	1.2	1.0	.87	.12	.29	.33	.69	2.1	3.3	2.7	.75	.60
MED	6.3	3.3	3.1	.30	.78	1.2	1.6	4.9	5.8	3.8	2.2	2.8
AC-FT	462	271	475	103	65	145	126	352	369	303	246	379
CFSM	19.8	12.0	20.3	4.42	2.95	6.20	5.58	15.1	16.3	13.0	10.5	16.7
IN.	22.81	13.39	23.45	5.10	3.19	7.15	6.23	17.39	18.20	14.95	12.15	18.68

SUMMARY STATISTICS	FOR 2000 WATER YEAR	
ANNUAL TOTAL	1661.81	
ANNUAL MEAN	4.54	
HIGHEST DAILY MEAN	41	Sep 4
LOWEST DAILY MEAN	a .12	Jan 17
ANNUAL SEVEN-DAY MINIMUM	.12	Jan 16
INSTANTANEOUS PEAK FLOW	69	Aug 23
INSTANTANEOUS PEAK STAGE	19.58	Aug 23
INSTANTANEOUS LOW FLOW	b .12	Jan 17
ANNUAL RUNOFF (AC-FT)	3300	
ANNUAL RUNOFF (CFSM)	11.9	
ANNUAL RUNOFF (INCHES)	162.68	
10 PERCENT EXCEEDS	10	
50 PERCENT EXCEEDS	3.2	
90 PERCENT EXCEEDS	.53	

a Jan. 17-20, and 25-26.
b Jan. 15-20, 22, 24-26.
e Estimated

15090000 GREEN LAKE NEAR SITKA

LOCATION.--Lat 56°59′14″, long 135°06′37″, in SW¼ NE¼ sec. 29, T. 56 S., R. 65 E. (Port Alexander D-4 quad), Hydrologic Unit 19010203, Greater Sitka Borough, on Baranof Island, in Tongass National Forest, 0.4 mi upstream from mouth at Silver Bay, and 9.4 mi southeast of Sitka.

DRAINAGE AREA.--28.8 mi^2.

PERIOD OF RECORD.--September 1915 to September 1925 (published as "Green Lake Outlet"); monthly discharges only published in WSP 1372. October 1983 to current year (month end reservoir contents and monthly discharges).

REVISED RECORDS.--WSP 1372: 1916, 1917, 1922 (monthly discharge). WDR AK-84-1: Drainage area. WDR AK-86-1: 1984, 1985 (month-end reservoir contents, change in month-end and yearly contents, adjusted mean monthly discharges, and extremes).

GAGE.--Staff gage on upstream face of dam. Datum of gage is at mean low water, which is about 5 ft below sea level. Totalizing MWH meters are on the two turbines in Green Lake powerhouse. September 1915 to September 1925, recording gage at site of present day dam, elevation of gage was 220 ft above sea level, by barometer; prior to December 27, 1916 at datum 1 ft higher. Water years 1983-88, nonrecording remote lake-level indicator at Blue Lake powerhouse (6 mi northwest of gage).

REMARKS.--Reservoir is formed by concrete arch dam located at the outlet of Green Lake, construction began in 1978 and was completed in 1982. Total and usable capacity below spillway crest elevation of 395 ft is 88,000 and 75,000 acre-ft, respectively. Reservoir is used for power. Discharge released through the turbines is computed from relation between discharge, head, and power generation; release flow empties directly into Silver Bay and is not returned to stream. Spill is computed from a theoretical relation between discharge and stage above the crest of the 100 ft wide spillway. Turbine and spillway ratings and reservoir capacity table furnished by City and Borough of Sitka in 1983. Corrected reservoir capacity table furnished in April 1987.

COOPERATION.--Daily reservoir elevations and MWH power generation provided by City and Borough of Sitka.

AVERAGE DISCHARGE.--26 years (water years, 1916-25, 1985-2000), 315 ft^3/s, 148.5 in/yr, 228,200 acre-ft/yr. Mean discharge for water years 1985-99 adjusted for change in contents of Green Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 93,780 acre-ft, September 22-23, 1994, elevation, 400.5 ft; minimum contents observed, 23,170 acre-ft, June 1, 1996, elevation, 307.6 ft; Maximum daily discharge, 5,020 ft^3/s, September 22-23, 1994; no flow released, February 5-8, 1987 and November 27-29, 1988.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 91,150 acre-ft, December 28, elevation 398.0 ft; minimum contents observed, 61,170 acre-ft, May 17, elevation 365.2 ft; Maximum daily discharge (not adjusted for storage) 1,980 ft^3/s, December 28; minimum daily discharge, 112 ft^3/s, July 25.

REVISIONS.--The maximum daily discharges (not adjusted for storage) for water years 1998 and 1999 have been revised to 1,130 ft^3/s, October 31, 1997, and 3,750 ft^3/s, October 19, 1998. The minimum daily discharge for water year 1999 is also revised to 78 ft^3/s, January 30, 1999. These values supersede figures published in reports for 1998 and 1999.

MONTH END RESERVOIR ELEVATION, IN FEET, AND CONTENTS, IN ACRE FEET
WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
Oct 31	395.8	88,840	100
Nov 30	393.4	86,480	-2360
Dec 31	395.8	88,840	+2360
Jan 31	387.9	81,260	-7580
Feb 29	378.7	72,830	-8430
Mar 31	371.9	66,870	-5960
Apr 30	367.9	63,470	-3400
May 31	365.9	61,770	-1700
Jun 30	378.5	72,650	+10880
Jul 31	396.1	89,160	+16510
Aug 31	396.1	89,160	0
Sep 30	395.9	88,950	-210
		CAL YR 1999	13760
		WTR YR 2000	210

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

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT	144	626	770	772
NOV	206	185	391	351
DEC	203	195	398	436
JAN	206	8	214	91
FEB	201	0	201	54
MAR	195	0	195	98
APR	183	0	183	126
MAY	313	0	313	285
JUN	262	0	262	445
JUL	179	19	198	467
AUG	160	429	589	589
SEP	120	655	775	772
CAL YR 1999	204	175	379	397
WTR YR 2000	198	176	374	374

15101490 GREENS CREEK AT GREENS CREEK MINE NEAR JUNEAU

LOCATION.--Lat 58°05′00″, long 134°37′54″, in NW¼ SE¼ sec. 4, T. 44 S., R. 66 E. (Juneau A-2 quad), Hydrologic Unit 19010204, on Admiralty Island, in Admiralty Island National Monument, Tongass National Forest, on right bank, 100 ft upstream from mine portal, 0.3 mi downstream from Big Sore Creek, 7.0 mi upstream from mouth at Hawk Inlet, and 19 mi southwest of Juneau.

DRAINAGE AREA.--8.62 mi^2.

PERIOD OF RECORD.--August 1989 to current year.

REVISED RECORD.--WRD AK-99-1, 1990-1994(M), 1996-1998(M).

GAGE.--Water-stage recorder. Datum of gage is 890.16 ft above sea level (levels by Greens Creek Mining Company). Prior to February 16, 1999, recording gage at site 30 ft upstream at datum 9.84 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Greens Creek Mining Company pumps water from gage pool for use in mill. Diversion flow is recorded on totalizing meters in gage house. Pump records are available from Greens Creek Mining Company.

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	46	98	19	52	16	e5.5	e31	e54	92	90	81	29
2	47	54	18	e44	15	e5.5	e20	e51	97	89	73	28
3	53	35	18	e36	14	e5.4	e31	e63	103	88	72	27
4	43	31	17	e32	13	e5.4	e21	e63	107	90	79	61
5	37	29	17	29	e12	e5.3	e19	e66	110	92	79	70
6	43	27	17	28	e11	e5.2	e18	e69	119	95	66	79
7	57	26	16	26	e10	e5.2	e18	e69	120	92	56	87
8	78	28	16	26	e9.6	e5.1	e26	e70	106	88	71	76
9	61	32	16	25	e9.0	e5.0	e21	e69	104	88	70	80
10	48	27	16	e23	e8.3	e5.2	e17	e84	98	91	54	66
11	45	26	16	e21	e7.9	e5.5	e14	e91	103	93	46	85
12	51	24	15	e19	e7.5	e5.9	e14	85	98	90	40	68
13	52	24	14	e18	e7.0	e6.2	e16	82	105	83	37	70
14	46	24	15	e16	e6.5	e7.3	e15	82	107	80	51	93
15	37	27	15	e14	e6.3	e7.3	e15	78	104	88	82	86
16	88	81	14	e13	e6.1	e9.0	e18	79	115	86	73	133
17	87	51	15	e13	e6.3	e7.8	e18	89	116	84	54	119
18	86	33	e18	e12	e6.6	e11	e13	99	107	85	42	95
19	111	37	e23	e12	e6.9	e11	e16	98	101	92	39	84
20	89	32	e30	e11	e7.3	e9.0	e15	87	101	104	73	74
21	89	28	42	e11	e7.5	e12	e39	84	103	88	73	58
22	80	26	67	e10	e6.5	e15	e24	99	100	89	92	48
23	92	25	80	e10	e6.4	e12	e21	89	91	91	78	47
24	86	24	94	e9.0	e6.3	e12	e17	77	94	123	60	38
25	97	24	145	e10	e6.2	e17	e30	68	98	102	49	35
26	77	22	114	e11	e6.0	e20	e18	64	102	93	44	33
27	66	21	237	e12	e5.9	e23	e25	74	103	90	44	31
28	50	20	190	e13	e5.7	e18	e27	86	108	87	52	37
29	38	19	98	15	e5.6	e15	e35	91	113	82	38	45
30	35	e19	81	17	---	e16	e57	86	95	80	36	43
31	32	---	64	20	---	e17	---	89	---	91	32	---
TOTAL	1947	974	1557	608.0	242.4	309.8	669	2435	3120	2804	1836	1925
MEAN	62.8	32.5	50.2	19.6	8.36	9.99	22.3	78.5	104	90.5	59.2	64.2
MAX	111	98	237	52	16	23	57	99	120	123	92	133
MIN	32	19	14	9.0	5.6	5.0	13	51	91	80	32	27
AC-FT	3860	1930	3090	1210	481	614	1330	4830	6190	5560	3640	3820
CFSM	7.29	3.77	5.83	2.28	.97	1.16	2.59	9.11	12.1	10.5	6.87	7.44
IN.	8.40	4.20	6.72	2.62	1.05	1.34	2.89	10.51	13.46	12.10	7.92	8.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)#

MEAN	61.8	30.2	26.7	14.4	14.1	12.6	32.0	82.5	87.5	54.6	41.4	60.1
MAX	97.9	49.5	65.7	22.3	36.9	27.2	49.6	107	147	90.5	69.7	95.0
(WY)	1999	1994	1990	1991	1992	1992	1994	1992	1992	2000	1991	1991
MIN	34.7	14.6	8.27	5.50	3.42	5.43	18.7	58.3	59.5	31.5	18.7	33.3
(WY)	1994	1991	1997	1997	1999	1997	1999	1996	1998	1998	1994	1995

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

15101490 GREENS CREEK AT GREENS CREEK MINE NEAR JUNEAU--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000 #	
ANNUAL TOTAL	15572.0		18427.2			
ANNUAL MEAN	42.7		50.3		43.4	
HIGHEST ANNUAL MEAN					60.1	1992
LOWEST ANNUAL MEAN					31.8	1998
HIGHEST DAILY MEAN	237	Dec 27	237	Dec 27	465	Oct 20 1998
LOWEST DAILY MEAN	2.6	Feb 12	5.0	Mar 9	a1.9	Mar 22 1991
ANNUAL SEVEN-DAY MINIMUM	2.8	Jan 31	5.2	Mar 4	1.9	Mar 21 1991
INSTANTANEOUS PEAK FLOW			333	Dec 27	b710	Oct 20 1998
INSTANTANEOUS PEAK STAGE			3.61	Dec 27	c14.79	Oct 20 1998
ANNUAL RUNOFF (AC-FT)	30890		36550		31430	
ANNUAL RUNOFF (CFSM)	4.95		5.84		5.03	
ANNUAL RUNOFF (INCHES)	67.20		79.52		68.37	
10 PERCENT EXCEEDS	89		98		91	
50 PERCENT EXCEEDS	33		41		32	
90 PERCENT EXCEEDS	3.6		8.8		6.6	

\# See Period of Record
a Mar. 22 to Mar. 27
b From rating curve extended above 140 ft^3/s on basis of slope area measurement of peak flow
c Same site, different datum

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE

LOCATION.--Lat 57°39′46″, long 135°11′06″, in NW¼ SE¼ sec. 34, T. 48 S., R. 63 E. (Sitka C-4 quad), Greater Sitka Borough, Hydrologic Unit 19010203, on Chichagof Island, in Tongass National Forest, on right bank 0.6 mi upstream from Hook Creek, 3.5 mi upstream from mouth at Kadashan Bay, and 9 mi south of Tenakee.

DRAINAGE AREA.--10.2 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--January 1968 to September 1978, October 1980 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 100 ft above sea level, from topographic map. Prior to October 24, 1969, at site 90 ft downstream at different datum; October 24, 1969 to September 30, 1978, at site 75 ft downstream at datum 1.89 ft higher.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 500 ft^3/s and maximum (*) :

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct 16	0345	591	3.79	Dec 24	0500	776	4.15
Oct 19	0200	675	3.96	Dec 25	1030	1150	4.76
Oct 21	1015	591	3.79	Dec 27	2315	1360	5.05
Oct 25	0830	721	4.05	Sept 6	1830	759	4.12
Nov 1	1215	*1500	*5.22	Sept 16	1045	873	4.32

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	41	742	70	46	43	45	86	88	72	45	40	20
2	54	135	50	37	30	66	91	79	75	34	29	18
3	95	86	72	34	26	94	88	75	74	30	25	18
4	58	71	62	31	23	45	63	81	73	30	22	139
5	58	77	58	28	21	36	64	77	74	29	20	59
6	77	74	84	64	20	29	54	70	90	28	19	278
7	168	85	41	70	19	26	108	70	87	26	18	110
8	163	127	42	57	18	24	100	70	72	24	23	105
9	89	121	36	32	17	22	52	73	64	23	27	128
10	73	75	42	27	e16	e21	43	77	62	23	18	51
11	117	59	51	23	e16	20	40	90	62	28	16	207
12	140	50	39	e21	e16	20	44	88	65	26	15	72
13	184	59	31	e20	e15	20	40	75	63	22	15	103
14	145	63	28	e19	e15	38	35	64	68	20	21	234
15	112	52	26	e18	e14	41	33	62	57	20	57	150
16	421	237	25	e17	e14	68	34	69	102	20	53	511
17	198	101	e23	e17	e14	72	39	93	89	20	35	271
18	228	60	e22	e16	e14	75	97	98	61	20	24	103
19	361	72	25	e16	49	46	69	103	66	33	21	78
20	176	59	197	e16	68	85	141	75	66	58	119	65
21	371	61	157	e15	36	95	98	81	62	28	145	49
22	237	78	176	15	25	68	73	142	54	27	90	42
23	198	103	181	15	23	61	50	82	47	35	50	37
24	184	228	385	14	27	93	51	66	44	112	34	34
25	431	111	641	14	31	99	50	56	42	48	31	30
26	221	61	301	14	45	161	69	56	43	45	26	28
27	236	44	841	72	35	106	57	61	42	48	24	26
28	126	38	562	44	26	61	63	68	40	54	49	39
29	103	34	148	57	23	61	75	87	36	47	28	53
30	96	31	83	51	---	81	124	72	32	51	27	60
31	189	---	60	106	---	180	---	69	---	78	23	---
TOTAL	5350	3194	4559	1026	739	1959	2031	2417	1884	1132	1144	3118
MEAN	173	106	147	33.1	25.5	63.2	67.7	78.0	62.8	36.5	36.9	104
MAX	431	742	841	106	68	180	141	142	102	112	145	511
MIN	41	31	22	14	14	20	33	56	32	20	15	18
AC-FT	10610	6340	9040	2040	1470	3890	4030	4790	3740	2250	2270	6180
CFSM	16.9	10.4	14.4	3.24	2.50	6.20	6.64	7.64	6.16	3.58	3.62	10.2
IN.	19.51	11.65	16.63	3.74	2.70	7.14	7.41	8.81	6.87	4.13	4.17	11.37

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000, BY WATER YEAR (WY) #

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	118	77.4	64.6	49.0	48.8	44.9	68.9	103	67.3	31.4	33.0	74.4
MAX	234	152	147	147	118	129	118	182	151	60.2	79.0	141
(WY)	1975	1975	2000	1985	1985	1994	1994	1972	1972	1970	1983	1981
MIN	50.6	17.7	8.05	6.15	5.95	9.21	28.2	42.0	19.8	6.41	9.44	17.5
(WY)	1970	1974	1978	1969	1969	1974	1972	1981	1998	1989	1977	1986

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

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000 #	
ANNUAL TOTAL	32799		28553			
ANNUAL MEAN	89.9		78.0		65.4	
HIGHEST ANNUAL MEAN					80.8	1992
LOWEST ANNUAL MEAN					44.1	1978
HIGHEST DAILY MEAN	841	Dec 27	841	Dec 27	1010	Oct 19 1998
LOWEST DAILY MEAN	10	Mar 8	a14	Jan 24	b3.2	Jul 28 1989
ANNUAL SEVEN-DAY MINIMUM	12	Feb 5	15	Feb 12	4.2	Jan 13 1974
INSTANTANEOUS PEAK FLOW			c1500	Nov 1	c1970	Oct 8 1990
INSTANTANEOUS PEAK STAGE			5.22	Nov 1	5.83	Oct 8 1990
INSTANTANEOUS LOW FLOW			d13	Jan 26	3.2	Jul 28 1989
ANNUAL RUNOFF (AC-FT)	65060		56630		47400	
ANNUAL RUNOFF (CFSM)	8.81		7.65		6.41	
ANNUAL RUNOFF (INCHES)	119.62		104.13		87.15	
10 PERCENT EXCEEDS	182		149		141	
50 PERCENT EXCEEDS	61		57		43	
90 PERCENT EXCEEDS	15		20		12	

\# See Period of Record
a Jan. 24-26, and Feb. 15-18
b Jul. 28 to Jul. 29, 1989
c From rating curve extended above 330 ft^3/s on basis of area-velocity study at gage height 4.8 ft and shape of previous rating
d May have been lower during period of ice effect, Feb. 15-18

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-72, 1974-77, 1981-1985, and 1987 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: November 1967 to September 1978, December 1981 to December 1984, March 1987 to March 1988, and September 1988 to current year.

INSTRUMENTATION.--Digital water-temperature recorder, November 1967 to December 1984, set for 1-hour punch interval. Electronic water-temperature recorder since March 13, 1987, set for 2-hour recording interval. Electronic water-temperature recorder with 15-minute recording interval since July 11, 1996.

REMARKS.--Records represent water temperature at the sensor within 0.5 ºC.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 16.5ºC, July 15, 1993; minimum, 0.0ºC, on many days during winter.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 12.5ºC, August 4; minimum, 0.0ºC, on many days during winter.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.5	7.0	7.5	4.5	4.0	4.0	2.0	1.5	2.0	2.0	1.0	1.5
2	7.5	7.0	7.5	4.0	4.0	4.0	2.5	2.0	2.0	1.0	.5	1.0
3	8.0	7.5	7.5	4.0	3.5	3.5	2.5	2.0	2.0	1.5	1.0	1.0
4	7.5	7.0	7.0	4.0	3.5	3.5	2.5	2.0	2.0	1.5	1.0	1.0
5	8.0	7.5	7.5	4.0	3.5	4.0	2.5	2.0	2.5	1.5	1.0	1.5
6	8.0	7.5	7.5	4.5	4.0	4.0	2.0	2.0	2.0	1.5	.5	1.0
7	7.5	7.5	7.5	4.5	4.0	4.0	2.5	2.0	2.5	1.5	1.0	1.0
8	7.5	7.0	7.0	4.5	4.0	4.0	2.5	2.0	2.0	1.5	.5	1.0
9	7.0	6.5	6.5	4.5	4.0	4.0	2.5	2.0	2.0	1.0	.5	1.0
10	6.5	6.0	6.5	4.5	4.0	4.5	2.0	2.0	2.0	1.0	.5	1.0
11	6.5	6.0	6.5	5.0	4.5	4.5	2.0	1.5	1.5	.5	.0	.0
12	6.5	6.0	6.0	5.0	4.5	4.5	2.0	1.5	2.0	.0	.0	.0
13	6.5	6.0	6.0	4.5	4.5	4.5	2.0	1.5	2.0	.0	.0	.0
14	6.0	5.5	5.5	4.5	4.0	4.5	2.0	1.5	1.5	.0	.0	.0
15	5.5	5.0	5.5	4.0	4.0	4.0	1.5	.5	1.0	.0	.0	.0
16	6.5	5.0	6.0	4.5	4.0	4.5	1.0	.0	.5	.0	.0	.0
17	7.0	6.5	6.5	4.5	4.0	4.0	1.0	.0	.5	.0	.0	.0
18	7.5	6.5	7.0	4.5	4.0	4.0	1.0	.0	.5	.0	.0	.0
19	8.0	7.0	7.5	4.5	4.0	4.5	.5	.0	.5	.0	.0	.0
20	7.0	6.0	6.5	4.5	4.0	4.0	1.0	.0	.5	.5	.0	.0
21	6.5	6.0	6.5	4.0	3.5	4.0	1.5	.5	1.0	1.0	.5	1.0
22	6.5	6.0	6.5	3.5	3.0	3.5	2.0	1.5	1.5	1.0	1.0	1.0
23	6.5	6.0	6.0	3.0	2.5	3.0	2.5	2.0	2.0	1.5	1.0	1.0
24	6.5	6.0	6.0	3.0	2.5	2.5	2.0	1.0	1.5	1.5	1.0	1.5
25	6.0	5.5	6.0	3.0	2.5	2.5	2.5	1.0	1.5	1.5	1.0	1.0
26	5.5	5.5	5.5	3.0	3.0	3.0	3.0	2.5	2.5	1.0	1.0	1.0
27	6.0	5.5	6.0	3.0	2.5	2.5	3.0	2.0	2.5	1.0	.0	.0
28	6.0	5.0	5.5	2.5	2.0	2.0	3.0	2.0	2.5	.0	.0	.0
29	5.0	4.5	5.0	2.5	2.0	2.0	3.0	2.5	2.5	.0	.0	.0
30	4.5	4.5	4.5	2.0	1.5	2.0	3.0	2.5	2.5	.5	.0	.5
31	4.5	4.0	4.0	---	---	---	2.5	2.0	2.5	1.0	.0	.0
MONTH	8.0	4.0	6.3	5.0	1.5	3.7	3.0	.0	1.7	2.0	.0	.6

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.5	1.5	1.0	1.0	3.0	1.5	2.0	4.5	3.0	3.5
2	1.0	.5	1.0	1.5	.5	1.0	3.0	2.0	2.5	4.5	3.0	4.0
3	1.5	.5	1.0	1.0	.5	.5	3.0	2.0	2.5	5.0	3.0	4.0
4	1.0	.5	1.0	1.5	.5	1.0	3.5	2.0	2.5	5.0	3.0	4.0
5	1.0	.5	.5	2.0	1.0	1.5	3.5	2.5	3.0	5.0	2.5	4.0
6	1.0	.5	1.0	1.5	1.0	1.0	3.0	2.0	2.5	5.0	2.5	4.0
7	1.5	1.0	1.5	1.0	.0	.5	2.5	1.5	2.0	5.0	3.0	4.0
8	1.5	1.5	1.5	1.0	.0	.5	3.0	1.5	2.0	5.0	3.0	4.0
9	1.5	.5	1.5	.5	.0	.5	3.0	1.5	2.5	5.5	2.5	4.0
10	.5	.0	.0	1.0	.0	.5	3.5	2.0	2.5	5.5	2.5	4.0
11	.0	.0	.0	1.5	.5	1.0	3.5	2.5	3.0	5.5	3.0	4.5
12	.0	.0	.0	2.0	1.0	1.5	4.0	3.0	3.5	5.5	3.0	4.0
13	.0	.0	.0	2.0	1.5	2.0	3.0	2.0	2.5	5.0	3.5	4.0
14	.0	.0	.0	1.5	1.0	1.5	3.0	1.5	2.5	5.0	3.5	4.0
15	.0	.0	.0	1.5	1.0	1.0	3.5	1.5	2.5	5.0	3.5	4.5
16	.0	.0	.0	1.5	1.0	1.5	3.5	2.0	3.0	4.5	4.0	4.0
17	.0	.0	.0	1.5	1.0	1.5	3.5	2.5	3.0	5.0	3.5	4.5
18	.5	.0	.5	1.5	1.0	1.5	3.0	2.5	3.0	5.0	3.5	4.5
19	.5	.0	.0	2.0	1.0	1.5	3.5	2.5	3.0	5.0	3.5	4.5
20	.5	.0	.5	2.0	1.0	1.5	3.0	2.5	3.0	5.0	3.0	4.0
21	1.0	.5	.5	1.5	.5	1.0	3.5	2.5	3.0	4.5	4.0	4.5
22	1.0	.5	1.0	2.5	1.5	1.5	3.5	2.5	3.0	5.0	4.0	4.5
23	1.5	1.0	1.0	2.0	1.5	2.0	3.5	2.0	3.0	5.0	4.0	4.5
24	1.5	1.0	1.5	2.0	1.5	1.5	4.0	2.5	3.5	5.0	4.0	4.5
25	1.5	1.0	1.5	2.0	1.5	1.5	4.5	3.0	3.5	5.5	3.0	4.5
26	1.5	1.0	1.0	1.5	1.0	1.5	4.0	2.5	3.5	6.5	3.5	5.0
27	1.5	1.0	1.0	2.0	1.0	1.5	4.0	2.0	3.0	6.0	3.5	5.0
28	1.5	1.0	1.5	2.0	1.0	1.5	5.0	3.0	4.0	5.5	4.0	5.0
29	2.0	1.0	1.5	2.5	2.0	2.0	4.0	3.0	3.5	5.0	4.0	4.5
30	---	---	---	2.5	1.5	2.0	4.0	3.0	3.5	6.0	4.0	5.0
31	---	---	---	2.5	1.5	1.5	---	---	---	6.5	3.5	5.0
MONTH	2.0	.0	.7	2.5	.0	1.3	5.0	1.5	2.9	6.5	2.5	4.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	4.0	5.5	8.5	7.5	8.0	11.0	10.0	10.5	9.0	8.0	8.5
2	7.0	4.0	5.5	8.5	8.0	8.0	11.0	9.5	10.5	8.0	6.5	7.5
3	7.0	4.0	5.5	9.0	8.0	8.5	11.0	10.0	10.5	8.0	6.5	7.5
4	6.5	4.5	5.5	9.5	7.5	8.5	12.5	10.5	11.5	10.0	7.5	9.0
5	6.0	5.0	5.5	9.5	8.5	9.0	12.0	11.0	11.5	9.5	9.0	9.0
6	5.5	5.0	5.5	9.0	8.5	8.5	11.5	10.5	11.0	9.5	9.0	9.0
7	6.0	5.0	5.5	9.5	8.5	9.0	11.5	10.5	11.0	9.0	8.0	8.5
8	7.0	5.0	6.0	10.5	8.0	9.5	11.0	10.0	10.5	8.5	7.0	8.0
9	6.5	5.5	6.0	10.0	9.0	9.5	11.5	10.0	10.5	8.5	7.5	8.0
10	7.0	5.0	6.0	9.5	9.0	9.5	11.5	9.5	10.5	8.0	7.0	7.5
11	6.5	5.5	6.0	9.5	9.0	9.0	11.0	9.5	10.5	9.0	8.0	8.5
12	8.0	5.5	6.5	10.0	8.5	9.0	11.0	10.0	10.5	8.5	8.0	8.5
13	7.0	6.0	6.5	10.5	8.5	9.5	10.5	10.0	10.5	8.5	8.0	8.0
14	7.0	5.5	6.0	9.5	9.0	9.5	10.5	10.0	10.0	8.5	7.5	8.5
15	7.0	5.5	6.0	10.5	9.0	10.0	11.0	10.5	10.5	7.5	7.0	7.5
16	6.5	5.5	6.0	11.0	9.5	10.0	11.0	10.0	10.5	8.5	7.5	8.0
17	6.5	6.0	6.0	10.5	10.0	10.0	11.0	10.0	10.5	9.0	8.0	8.5
18	6.5	5.5	6.0	10.5	9.5	10.0	10.5	9.0	10.0	8.0	7.0	8.0
19	6.5	6.0	6.0	10.5	9.5	10.0	10.0	9.5	10.0	7.0	6.5	7.0
20	7.0	6.0	6.5	10.5	10.0	10.0	11.0	10.0	10.5	7.0	6.5	7.0
21	7.0	6.0	6.5	10.0	9.5	10.0	10.5	10.0	10.5	7.0	6.0	6.5
22	7.5	6.0	6.5	11.0	9.5	10.0	10.5	10.0	10.0	7.5	6.5	7.0
23	8.5	5.5	7.0	10.5	10.0	10.0	10.0	9.0	9.5	8.5	7.5	8.0
24	9.0	6.0	8.0	11.0	10.0	10.5	9.5	8.5	9.0	8.5	7.5	8.0
25	8.5	7.5	8.0	10.5	10.0	10.0	10.0	9.0	9.5	8.5	7.5	8.0
26	8.5	7.5	8.0	10.0	9.5	10.0	10.0	9.0	9.5	8.0	8.0	8.0
27	8.5	8.0	8.5	10.5	9.5	10.0	9.0	8.5	8.5	8.5	8.0	8.0
28	9.0	8.0	8.5	10.5	10.0	10.5	10.0	8.5	9.5	8.5	8.0	8.5
29	9.0	7.5	8.0	11.0	10.0	10.5	10.0	8.5	9.0	8.5	6.5	7.5
30	8.0	6.5	7.0	10.5	10.0	10.5	10.0	9.0	9.5	6.5	5.5	6.0
31	---	---	---	11.5	10.5	11.0	9.5	8.0	9.0	---	---	---
MONTH	9.0	4.0	6.5	11.5	7.5	9.6	12.5	8.0	10.2	10.0	5.5	7.9

15106970 MIDDLE BASIN CREEK NEAR TENAKEE

LOCATION.--Lat 57°41′33″, long 135°12′06″, in NE¼ NE¼ SE¼ sec. 21, T. 48 S., R. 63 E. (Sitka C-4 quad), Hydrologic Unit l9010203, in Tongass National Forest, on Chichagof Island, on left bank 0.3 mi upstream from confluence with Kadashan River, and about 7 mi south of Tenakee.

DRAINAGE AREA.--0.12 mi^2

PERIOD OF RECORD.--October 1981 to July 1987(unpublished fragmentary records provided by the U.S. Forest Service). July 1999 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 190 ft above sea level, from topographic map.

REMARKS.-- Records fair, except for discharges above 6 ft^3/s, and estimated daily discharges, which are poor.

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	---	---	---	---	---	---	---	---	---	e.99	.32	.71
2	---	---	---	---	---	---	---	---	---	e.98	.30	.64
3	---	---	---	---	---	---	---	---	---	e.97	.29	.59
4	---	---	---	---	---	---	---	---	---	e.96	.28	.53
5	---	---	---	---	---	---	---	---	---	e.95	.28	.49
6	---	---	---	---	---	---	---	---	---	e.94	.27	.46
7	---	---	---	---	---	---	---	---	---	e.92	.27	.45
8	---	---	---	---	---	---	---	---	---	.90	.30	.42
9	---	---	---	---	---	---	---	---	---	.88	.29	.52
10	---	---	---	---	---	---	---	---	---	.88	.29	.46
11	---	---	---	---	---	---	---	---	---	.83	.26	.44
12	---	---	---	---	---	---	---	---	---	.82	.25	.44
13	---	---	---	---	---	---	---	---	---	.76	.29	.42
14	---	---	---	---	---	---	---	---	---	.69	.27	.42
15	---	---	---	---	---	---	---	---	---	.63	.25	.43
16	---	---	---	---	---	---	---	---	---	.59	.27	.42
17	---	---	---	---	---	---	---	---	---	.56	.39	.44
18	---	---	---	---	---	---	---	---	---	.52	.32	.62
19	---	---	---	---	---	---	---	---	---	.52	.28	.72
20	---	---	---	---	---	---	---	---	---	.48	.26	.75
21	---	---	---	---	---	---	---	---	---	.49	.29	.83
22	---	---	---	---	---	---	---	---	---	.45	.43	1.8
23	---	---	---	---	---	---	---	---	---	.42	.36	3.7
24	---	---	---	---	---	---	---	---	---	.40	.40	4.1
25	---	---	---	---	---	---	---	---	---	.39	.38	3.1
26	---	---	---	---	---	---	---	---	---	.40	.37	2.1
27	---	---	---	---	---	---	---	---	---	.41	.38	1.4
28	---	---	---	---	---	---	---	---	---	.39	.95	1.1
29	---	---	---	---	---	---	---	---	---	.35	.82	.94
30	---	---	---	---	---	---	---	---	---	.34	.88	.86
31	---	---	---	---	---	---	---	---	---	.33	.81	---
TOTAL	---	---	---	---	---	---	---	---	---	20.14	11.80	30.30
MEAN	---	---	---	---	---	---	---	---	---	.65	.38	1.01
MAX	---	---	---	---	---	---	---	---	---	.99	.95	4.1
MIN	---	---	---	---	---	---	---	---	---	.33	.25	.42
MED	---	---	---	---	---	---	---	---	---	.59	.29	.61
AC-FT	---	---	---	---	---	---	---	---	---	40	23	60
CFSM	---	---	---	---	---	---	---	---	---	5.41	3.17	8.42
IN.	---	---	---	---	---	---	---	---	---	6.24	3.66	9.39

e Estimated

15106970 MIDDLE BASIN CREEK NEAR TENAKEE--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	.80	17	.78	1.1	.45	.39	.51	.39	.80	.53	.33	.30
2	.76	12	.72	.81	.38	.41	.51	.40	.83	.48	.32	.29
3	.71	7.3	.74	.67	.36	.48	.48	.42	.85	.48	.32	.28
4	.66	4.6	.72	.57	.35	.40	.46	.43	.87	.45	.33	.43
5	.61	3.2	.71	.53	.33	.35	.46	.45	.88	.44	.32	.35
6	.62	2.4	.83	.63	.32	.32	.43	.48	.89	.42	.31	.53
7	.73	1.9	.70	.62	.32	.30	.59	.50	.92	.39	.30	.57
8	.82	1.8	.68	.56	.31	.28	.65	.51	.94	.38	.33	.56
9	.79	1.7	.62	.48	.30	.26	.52	.53	.90	.38	.31	.70
10	.81	1.5	.60	.44	.27	.24	.47	.55	.86	.37	.28	.60
11	.89	1.3	.74	.41	.27	.24	.46	.58	.83	.37	.27	.70
12	1.0	1.2	.65	.38	.27	.23	.43	.62	.80	.35	.26	.62
13	1.1	1.1	.56	.36	.25	.24	.39	.67	.77	.33	.26	.67
14	1.1	.97	.51	.35	.25	.26	.36	.70	.75	.32	.28	.82
15	1.3	.93	.48	.34	.24	.28	.35	.69	.72	.30	.31	1.0
16	2.9	1.2	.47	.35	.24	.31	.34	.66	.74	.30	.29	4.9
17	3.2	1.1	.44	.33	.24	.32	.34	.65	.74	.30	.28	7.8
18	3.5	1.3	.41	.34	.27	.35	.40	.63	.73	.29	.26	4.9
19	4.7	1.4	.46	.35	.34	.33	.39	.67	.71	.31	.26	3.0
20	4.1	1.2	1.2	.34	.35	.40	.44	.69	.70	.33	.33	2.0
21	5.6	1.2	.94	.33	.31	.55	.45	.73	.67	.28	.39	1.5
22	6.3	1.1	1.1	.32	.28	.47	.41	.72	.66	.28	.39	1.3
23	6.4	1.3	1.5	.32	.27	.43	.39	.71	.64	.29	.33	1.1
24	5.2	3.7	3.5	.31	.28	.46	.39	.71	.62	.39	.32	.92
25	8.1	2.2	12	.30	.29	.50	.37	.69	.61	.31	.33	.85
26	7.2	1.4	14	.30	.31	.77	.38	.66	.61	.30	.32	.80
27	6.5	1.1	31	.58	.30	.67	.37	.66	.60	.31	.31	.73
28	5.0	.90	27	.43	.28	.53	.38	.64	.59	.32	.37	.70
29	4.0	.81	6.8	.52	.27	.49	.39	.72	.55	.32	.33	.70
30	3.2	.74	3.5	.49	---	.46	.41	.74	.54	.34	.33	.66
31	3.8	---	1.9	.62	---	.59	---	.78	---	.37	.31	---
TOTAL	92.40	79.55	116.26	14.48	8.70	12.31	12.92	18.98	22.32	11.03	9.68	40.28
MEAN	2.98	2.65	3.75	.47	.30	.40	.43	.61	.74	.36	.31	1.34
MAX	8.1	17	31	1.1	.45	.77	.65	.78	.94	.53	.39	7.8
MIN	.61	.74	.41	.30	.24	.23	.34	.39	.54	.28	.26	.28
MED	2.9	1.3	.74	.41	.29	.39	.41	.66	.74	.33	.32	.70
AC-FT	183	158	231	29	17	24	26	38	44	22	19	80
CFSM	24.8	22.1	31.3	3.89	2.50	3.31	3.59	5.10	6.20	2.97	2.60	11.2
IN.	28.64	24.66	36.04	4.49	2.70	3.82	4.01	5.88	6.92	3.42	3.00	12.49

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY) #

MEAN	---	---	---	---	---	---	---	---	---	.50	.35	1.18
MAX	---	---	---	---	---	---	---	---	---	.65	.38	1.34
(WY)	---	---	---	---	---	---	---	---	---	1999	1999	2000
MIN	---	---	---	---	---	---	---	---	---	.36	.31	1.01
(WY)	---	---	---	---	---	---	---	---	---	2000	2000	1999

SUMMARY STATISTICS	FOR 2000 WATER YEAR	
ANNUAL TOTAL	438.91	
ANNUAL MEAN	1.20	
HIGHEST ANNUAL MEAN		
LOWEST ANNUAL MEAN		
HIGHEST DAILY MEAN	31	Dec 27
LOWEST DAILY MEAN	.23	Mar 12
ANNUAL SEVEN-DAY MINIMUM	.25	Mar 8
INSTANTANEOUS PEAK FLOW	a66	Dec 27
INSTANTANEOUS PEAK STAGE	5.16	Dec 27
INSTANTANEOUS LOW FLOW	b.22	Mar 12
ANNUAL RUNOFF (AC-FT)	871	
ANNUAL RUNOFF (CFSM)	9.99	
ANNUAL RUNOFF (INCHES)	136.06	
10 PERCENT EXCEEDS	1.9	
50 PERCENT EXCEEDS	.52	
90 PERCENT EXCEEDS	.29	

\# See Period of Record; partial years used in monthly statistics
a From rating curve extended above 3.0 ft^3/s
b March 12 and 13

15109048 PETERSON CREEK BELOW NORTH FORK NEAR AUKE BAY

LOCATION.(REVISED)--Lat 58°17′00″, long 134°39′54″, in SE¼ NW¼ SW¼ sec. 29, T. 41 S., R. 66 E. (Juneau B-2 SW), Hydrologic Unit 19010301, City and Borough of Juneau, on Douglas Island, in Tongass National Forest, on left bank 100 ft downstream from North Fork Peterson Creek, 1.25 mi upstream from mouth, 7.2 mi south of Auke Bay, and 9.6 mi west of Douglas.

DRAINAGE AREA(revised).--4.13 mi^2

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

GAGE.--Water-stage recorder.

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

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	11	196	7.3	14	e7.0	3.2	18	8.4	12	17	29	5.1
2	12	49	7.1	11	e5.0	3.5	13	8.5	12	13	20	5.2
3	13	23	6.9	8.0	e3.8	4.5	30	8.8	13	10	15	5.0
4	13	14	8.6	7.1	e3.4	4.0	16	9.2	13	8.7	14	14
5	11	11	7.5	6.2	e3.1	3.7	11	9.3	12	8.0	9.7	24
6	9.4	9.2	7.1	8.8	e2.9	3.4	9.8	9.2	13	7.7	6.9	18
7	8.8	7.8	6.6	9.9	e2.7	e2.7	9.6	9.5	18	7.1	5.8	21
8	14	6.6	6.4	11	e2.9	e2.4	26	10	15	6.2	9.8	15
9	17	8.2	6.4	7.5	e2.8	e2.1	15	11	13	5.7	18	17
10	14	7.8	6.8	5.8	e2.6	e2.0	9.2	13	11	5.5	11	12
11	12	8.2	8.2	e5.0	e2.5	e1.9	7.0	15	10	5.6	7.1	36
12	12	7.5	7.3	e4.6	e2.3	e1.8	6.4	15	9.2	5.3	5.6	22
13	20	7.3	6.4	e4.2	e2.2	e1.8	5.4	14	9.9	4.9	4.9	24
14	21	6.8	5.8	e3.6	e2.1	e2.3	4.6	13	12	4.6	5.5	39
15	15	7.8	5.5	e3.3	e2.0	e2.6	4.1	12	10	4.5	9.6	26
16	27	28	e5.0	e3.0	e1.9	3.1	3.8	10	14	4.4	8.7	150
17	21	25	e4.6	e2.9	e2.1	4.0	3.7	11	19	4.5	7.3	88
18	19	17	e4.2	e2.8	e2.4	4.8	4.0	18	17	5.0	5.8	34
19	62	19	4.7	e2.6	3.4	4.6	4.2	28	14	9.4	5.2	21
20	29	23	41	e2.5	3.7	4.8	4.7	22	13	42	6.9	20
21	35	17	33	e2.4	3.7	6.5	6.5	14	18	19	20	12
22	29	13	41	e2.2	e3.2	7.0	7.2	16	19	12	84	11
23	63	11	42	e2.2	e2.7	6.6	6.4	19	13	14	31	9.3
24	51	11	48	e2.3	e3.0	7.3	5.1	17	10	110	19	8.1
25	24	13	191	e2.5	e3.2	10	4.3	11	8.6	36	13	7.1
26	19	12	68	e2.8	3.4	18	3.9	8.9	7.8	24	9.3	6.6
27	15	9.0	364	e3.9	3.4	15	4.2	8.3	7.9	18	7.2	5.5
28	13	7.8	289	e7.0	3.3	10	7.2	9.6	14	17	8.2	4.7
29	12	6.9	53	e6.0	3.1	7.3	8.2	13	37	21	6.2	6.4
30	9.4	6.6	27	e5.5	---	7.9	8.1	13	23	18	6.9	6.9
31	8.0	---	19	e12	---	18	---	11	---	26	5.6	---
TOTAL	639.6	589.5	1338.4	172.6	89.8	176.8	266.6	395.7	418.4	494.1	416.2	673.9
MEAN	20.6	19.6	43.2	5.57	3.10	5.70	8.89	12.8	13.9	15.9	13.4	22.5
MAX	63	196	364	14	7.0	18	30	28	37	110	84	150
MIN	8.0	6.6	4.2	2.2	1.9	1.8	3.7	8.3	7.8	4.4	4.9	4.7
AC-FT	1270	1170	2650	342	178	351	529	785	830	980	826	1340
CFSM	5.00	4.76	10.5	1.35	.75	1.38	2.15	3.09	3.38	3.86	3.25	5.44
IN.	5.76	5.31	12.06	1.55	.81	1.59	2.40	3.56	3.77	4.45	3.75	6.07

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2000, BY WATER YEAR (WY)#

MEAN	---	12.3	25.8	8.96	2.56	6.58	14.0	15.4	14.4	11.6	10.8	17.8
MAX	---	19.6	43.2	12.4	3.10	7.45	19.2	18.1	14.9	15.9	13.4	22.5
(WY)	---	2000	2000	1999	2000	1999	1999	1999	1999	2000	2000	2000
MIN	---	4.99	8.37	5.57	2.00	5.70	8.89	12.8	13.9	7.29	8.24	13.2
(WY)	---	1999	1999	2000	1999	2000	2000	2000	2000	1999	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1999 - 2000#	
ANNUAL TOTAL	5701.6		5671.6			
ANNUAL MEAN	15.6		15.5			
HIGHEST ANNUAL MEAN						
LOWEST ANNUAL MEAN						
HIGHEST DAILY MEAN	364	Dec 27	364	Dec 27	364	Dec 27 1999
LOWEST DAILY MEAN	a1.5	Mar 7	b1.8	Mar 12	a1.5	Mar 7 1999
ANNUAL SEVEN-DAY MINIMUM	1.6	Mar 3	2.0	Mar 8	1.6	Mar 3 1999
INSTANTANEOUS PEAK FLOW			616	Dec 28	616	Dec 28 1999
INSTANTANEOUS PEAK STAGE			10.80	Dec 28	10.80	Dec 28 1999
INSTANTANEOUS LOW FLOW			1.8	Mar 12	1.5	Mar 7 1999
ANNUAL RUNOFF (AC-FT)	11310		11250		11230	
ANNUAL RUNOFF (CFSM)	3.78		3.75		3.75	
ANNUAL RUNOFF (INCHES)	51.36		51.09		50.98	
10 PERCENT EXCEEDS	29		26		23	
50 PERCENT EXCEEDS	9.1		8.9		8.2	
90 PERCENT EXCEEDS	2.4		3.1		2.6	

\# See Period of Record
a Mar 7 and 9
b Mar 12-13
e Estimated

15129000 ALSEK RIVER NEAR YAKUTAT
(International gaging station)

LOCATION.--Lat 59°23′42", long 138°04′55", in NW¼ NE¼ sec. 19, T. 29 S., R. 44 E. (Yakutat B-1 quad), Hydrologic Unit 19010401, in Glacier Bay National Park, on right bank across from terminus of Walker Glacier, 33 mi upstream from Dry Bay, and 55 mi southeast of Yakutat.

DRAINAGE AREA.--10,820 mi^2.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--July 1991 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Estimated daily discharges on May 5 and from May 15 to June 26 are fair. GOES satellite telemetry at station.

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	18200	27800	e7000	e19000	e6100	e4000	4570	8650	e38800	90900	75700	51300
2	18100	22500	e6800	e16000	e5900	e3900	4510	9150	e42600	93200	76700	48500
3	18400	18100	e6700	e13000	e5700	e3900	4710	9780	e45800	94000	75600	45300
4	18000	16100	e6500	e12000	e5300	e3900	4700	11200	e49900	97300	93000	44200
5	19200	15100	e6400	e10800	e5200	e3900	4530	13200	48400	102000	117000	44400
6	21400	14300	e6300	e10000	e5100	e3800	4460	14100	e62400	107000	124000	52500
7	20900	13600	e6200	e9500	e4800	e3700	4370	14400	e61500	109000	108000	59500
8	20200	13000	e6000	e9000	e4700	e3600	4380	15100	e62000	105000	99700	53200
9	19100	12500	e5900	e8500	e4600	e3500	4370	15400	e66400	105000	90000	47600
10	17400	12000	e5800	e8000	e4600	e3400	4340	16000	e68500	103000	85500	44800
11	16300	11600	e5700	e7800	e4500	e3400	4300	17200	e73200	98000	78700	47400
12	15500	11100	e5700	e7300	e4400	e3300	e4200	18200	e74300	98200	72000	46600
13	14900	10700	e5600	e7100	e4400	e3200	e4000	18700	e75600	101000	68800	45100
14	14800	10400	e5500	e6800	e4300	e3100	4270	e19300	e74800	96300	72400	51500
15	14000	10100	e5400	e6700	e4300	e3200	4350	e21000	e74500	92100	78000	53400
16	15700	9920	e5400	e6500	e4400	e3200	4560	e19700	e72300	95400	81600	48200
17	16300	9800	e5300	e6300	e4500	e3300	4740	e20800	e68100	95600	79300	53800
18	19900	9450	e5300	e6200	e4700	e3500	4900	e23100	e66000	99700	76300	56500
19	50300	9260	e5300	e6000	e4800	e3600	5170	e25300	e63700	97100	72900	52000
20	44500	9190	e6200	e5900	e4900	e3800	5450	e26000	e62900	93900	74700	45500
21	33600	8950	e7500	e5700	e5000	e3800	5780	e26700	e63900	89000	75900	40800
22	31000	8770	e9000	e5650	e4900	e3900	6060	e25400	e61200	83900	71500	41000
23	26200	8780	e11800	e5600	e4800	e4000	6100	e24700	e56400	86400	65000	50800
24	23300	8530	e14800	e5550	e4700	e4200	6050	e24900	e59200	87600	58000	60400
25	21300	8470	e19500	e5550	e4600	e4600	6210	e25000	e66800	85200	52600	65200
26	21000	e8250	e25000	e5500	e4500	5170	6530	e25400	e76800	79200	50200	66900
27	19300	e8000	e36000	e5700	e4400	5290	6880	e25700	82200	75500	48800	75700
28	18200	e7800	e55000	e5900	e4200	4890	7100	e29000	89900	74900	45700	83700
29	17100	e7600	e37000	e6000	e4100	4680	7510	e33900	95300	76400	47000	74600
30	16000	e7300	e29000	e6100	---	4630	8050	e34400	96100	77500	49200	61100
31	16800	---	e23000	e6200	---	4660	---	e37100	---	74600	51200	---
TOTAL	656900	348970	386600	245850	138400	121020	157150	648480	1999500	2863900	2315000	1611500
MEAN	21190	11630	12470	7931	4772	3904	5238	20920	66650	92380	74680	53720
MAX	50300	27800	55000	19000	6100	5290	8050	37100	96100	109000	124000	83700
MIN	14000	7300	5300	5500	4100	3100	4000	8650	38800	74600	45700	40800
AC-FT	1303000	692200	766800	487600	274500	240000	311700	1286000	3966000	5681000	4592000	3196000
CFSM	1.96	1.08	1.15	.73	.44	.36	.48	1.93	6.16	8.54	6.90	4.96
IN.	2.26	1.20	1.33	.85	.48	.42	.54	2.23	6.87	9.85	7.96	5.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)

MEAN	23090	8523	6511	4747	4199	4086	6697	26970	67960	86180	75900	50960
MAX	40300	12850	12470	7931	6625	6619	10870	40100	83970	98590	99370	76330
(WY)	1995	1994	2000	2000	1993	1992	1992	1993	1993	1993	1994	1995
MIN	12040	5828	3229	3045	2707	3033	5099	16880	53490	73510	59750	29040
(WY)	1997	1997	1997	1995	1995	1995	1993	1996	1996	1996	1996	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000 #	
ANNUAL TOTAL	10191950		11493270			
ANNUAL MEAN	27920		31400		30490	
HIGHEST ANNUAL MEAN					35850	1993
LOWEST ANNUAL MEAN					23920	1996
HIGHEST DAILY MEAN	113000	Jul 17	124000	Aug 6	164000	Aug 14 1997
LOWEST DAILY MEAN	2280	Mar 13	3100	Mar 14	2280	Mar 13 1999
ANNUAL SEVEN-DAY MINIMUM	2310	Mar 8	3240	Mar 11	2310	Mar 8 1999
INSTANTANEOUS PEAK FLOW			130000	Aug 6	175000	Aug 14 1997
INSTANTANEOUS PEAK STAGE			85.93	Aug 6	89.30	Aug 14 1997
INSTANTANEOUS LOW FLOW			3100	Mar 14		
ANNUAL RUNOFF (AC-FT)	20220000		22800000		22090000	
ANNUAL RUNOFF (CFSM)	2.58		2.90		2.82	
ANNUAL RUNOFF (INCHES)	35.04		39.51		38.29	
10 PERCENT EXCEEDS	77000		82600		83500	
50 PERCENT EXCEEDS	14300		15800		13000	
90 PERCENT EXCEEDS	2900		4380		3400	

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

15129000 ALSEK RIVER NEAR YAKUTAT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1992 to 1996, 1999 to current year

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)
SEP 20...	1050	9	9	75.49	45800	20	3054	167	8.5	11.5	3.0	42.8

DATE	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
SEP 20...	7.49	1.9	2.3	56	68	1	56	.001	.072	.004	E.10	<.10

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, TOTAL (UG/L AS SB) (01097)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)
SEP 20...	.296	E.004	.001	6000	61	<1.0	3	E.6	58.4	15	<5

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
SEP 20...	<1	80	<.1	<1.0	10	E.8	4	<1	E13	<1	7710

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
SEP 20...	1	<1	7.2	1.2	136	3	1	2	8	<1	<3

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
SEP 20...	E.4	<1	<1	189	116	<1	E24	<1	<1	312	38600

15129500 SITUK RIVER NEAR YAKUTAT

LOCATION.--Lat 59°35′00″, long 139°29′31″, in SE¼ SW¼ sec. 9, T. 27 S., R. 35 E. (Yakutat C-4 quad.), Yakutat Borough, Hydrologic Unit 19010401, in Tongass National Forest, on left bank 20 ft downstream from Alsek Road bridge, 3.5 mi downstream from Situk Lake, 8.8 mi northeast of Yakutat, and 10 mi upstream from mouth.

DRAINAGE AREA.--36 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1988 to current year.

GAGE.--Water-stage recorder. Datum of gage is sea level, by U.S. Forest Service.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,000 ft^3/s and maximum(*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct 6	1630	1310	68.99	Dec 26	2200	3520	72.57
Oct 18	2215	*3840	*72.99	Sept 28	0745	2440	71.02
Nov 1	0700	2340	70.86				

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	379	1880	203	623	208	145	383	261	168	234	204	154
2	363	1160	232	502	193	145	356	250	163	222	195	145
3	349	845	289	446	182	175	346	232	161	207	184	144
4	335	655	375	392	170	177	324	224	159	195	179	171
5	692	613	350	363	161	165	303	221	158	187	181	181
6	1160	498	302	349	153	154	282	210	159	183	176	493
7	981	462	265	357	146	143	265	202	162	174	169	529
8	812	407	240	369	139	e130	245	196	164	167	159	460
9	690	360	220	338	133	e119	227	190	162	164	150	405
10	609	358	207	308	128	e108	209	183	164	166	140	386
11	585	313	205	286	123	111	193	177	161	168	131	636
12	804	284	209	e269	119	105	182	174	158	251	123	530
13	725	279	194	e249	e113	101	172	173	160	306	117	468
14	654	264	186	e229	e108	100	162	172	178	281	127	474
15	555	247	179	e210	e105	101	155	172	211	257	182	519
16	1080	308	175	e194	102	125	150	171	232	237	177	503
17	914	343	171	e180	107	166	164	168	270	232	160	602
18	1920	301	163	167	135	162	235	177	294	225	149	561
19	2770	297	185	162	248	160	285	187	296	220	177	474
20	2150	326	302	162	273	192	461	203	292	217	318	396
21	1590	399	407	157	257	212	510	200	276	226	292	334
22	1510	333	627	152	231	215	478	226	259	319	291	311
23	1070	308	1710	147	210	207	388	262	235	379	292	378
24	801	285	2290	143	226	214	334	249	213	346	262	617
25	642	269	1980	150	213	281	293	228	199	309	234	584
26	675	256	2660	154	196	705	263	208	189	279	210	708
27	552	235	2850	177	181	845	244	194	184	246	195	1620
28	490	217	2240	174	167	652	238	183	189	222	180	2150
29	426	203	1610	164	155	541	239	177	212	213	169	1400
30	380	192	1090	184	---	487	247	176	243	198	169	914
31	558	---	796	222	---	439	---	173	---	195	162	---
TOTAL	27221	12897	22912	7979	4882	7582	8333	6219	6071	7225	5854	17247
MEAN	878	430	739	257	168	245	278	201	202	233	189	575
MAX	2770	1880	2850	623	273	845	510	262	296	379	318	2150
MIN	335	192	163	143	102	100	150	168	158	164	117	144
AC-FT	53990	25580	45450	15830	9680	15040	16530	12340	12040	14330	11610	34210
CFSM	24.4	11.9	20.5	7.15	4.68	6.79	7.72	5.57	5.62	6.47	5.25	16.0
IN.	28.13	13.33	23.68	8.24	5.04	7.83	8.61	6.43	6.27	7.47	6.05	17.82

e Estimated

15129500 SITUK RIVER NEAR YAKUTAT--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)#

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	531	326	406	250	237	235	254	284	237	191	266	529
MAX	878	598	739	492	471	516	370	418	345	292	532	838
(WY)	2000	1993	2000	1992	1997	1992	1998	1991	1991	1991	1991	1991
MIN	283	173	142	131	81.2	54.2	143	160	127	77.7	105	339
(WY)	1998	1999	1991	1996	1999	1989	1989	1996	1993	1993	1994	1997

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000 #	
ANNUAL TOTAL	133278		134422			
ANNUAL MEAN	365		367		312	
HIGHEST ANNUAL MEAN					382	1992
LOWEST ANNUAL MEAN					230	1996
HIGHEST DAILY MEAN	2850	Dec 27	2850	Dec 27	2850	Dec 27 1999
LOWEST DAILY MEAN	51	Mar 8	100	Mar 14	a47	Mar 5 1989
ANNUAL SEVEN-DAY MINIMUM	56	Mar 3	106	Mar 9	48	Mar 3 1989
INSTANTANEOUS PEAK FLOW			3840	Oct 18	3840	Oct 18 1999
INSTANTANEOUS PEAK STAGE			72.99	Oct 18	72.99	Oct 18 1999
ANNUAL RUNOFF (AC-FT)	264400		266600		226200	
ANNUAL RUNOFF (CFSM)	10.1		10.2		8.67	
ANNUAL RUNOFF (INCHES)	137.72		138.90		117.86	
10 PERCENT EXCEEDS	705		661		591	
50 PERCENT EXCEEDS	236		226		236	
90 PERCENT EXCEEDS	90		150		117	

\# See Period of Record
a Mar. 5 to Mar. 7, 1989

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1971 to 1973 and 1988 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1970 to September 1973 (fragmentary) and May 1988 to current year.

INSTRUMENTATION.--Water-temperature recorder October 1970 to September 1973, at a site 500 ft downstream. Electronic water-temperature recorder since May 1988, set for 2-hour recording interval. Recording interval changed to 15-minutes on March 6, 1996.

REMARKS.--Records represent water temperature at sensor within 0.5ºC.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 20.0ºC, July 4, 1997; minimum, 0.0ºC, on many days during winters.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 17.0ºC, June 12 and July 6 ; minimum, 0.0ºC on several days during winter.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.0	7.5	8.0	4.0	2.5	3.5	2.0	1.5	2.0	1.5	.5	1.0
2	8.0	7.5	8.0	4.0	3.0	3.5	2.0	.0	1.0	1.0	.5	.5
3	8.5	7.5	8.0	3.5	3.0	3.5	2.0	1.5	2.0	1.0	.5	1.0
4	8.0	7.5	7.5	3.5	3.0	3.0	2.0	1.5	2.0	1.0	1.0	1.0
5	7.5	7.0	7.0	4.0	3.5	3.5	2.5	2.0	2.0	2.0	1.0	1.5
6	7.5	7.0	7.0	4.0	3.5	3.5	2.0	1.5	2.0	2.0	1.5	2.0
7	7.5	7.0	7.0	4.0	3.5	3.5	2.0	1.5	2.0	2.0	1.5	2.0
8	7.5	7.0	7.0	4.0	3.0	3.5	2.5	2.0	2.0	2.0	.0	1.0
9	7.0	6.5	7.0	4.0	3.0	3.5	2.0	1.5	1.5	1.0	.5	1.0
10	6.5	6.0	6.5	3.5	3.0	3.5	2.0	1.5	2.0	1.0	.5	.5
11	6.5	6.0	6.0	3.5	3.0	3.5	1.5	1.0	1.5	.5	.0	.5
12	6.5	6.0	6.0	3.5	3.0	3.5	2.0	1.0	1.5	.5	.0	.0
13	7.0	6.0	6.5	4.0	3.5	4.0	1.5	1.0	1.5	.0	.0	.0
14	6.5	6.0	6.5	4.0	4.0	4.0	1.5	.5	1.0	.0	.0	.0
15	6.0	5.5	6.0	4.0	3.0	3.5	1.5	.5	1.0	1.0	.0	.5
16	6.5	5.5	6.0	4.0	3.5	4.0	1.0	.5	.5	.5	.0	.5
17	6.5	6.0	6.5	4.0	3.5	3.5	.5	.0	.5	1.0	.0	.5
18	7.0	6.0	6.5	3.5	3.0	3.0	1.0	.0	.5	2.0	.5	1.5
19	7.0	6.0	6.5	4.0	3.5	4.0	1.0	.0	.5	2.5	2.0	2.0
20	6.5	6.0	6.0	3.5	3.0	3.0	2.0	1.0	1.5	2.5	2.0	2.0
21	6.5	6.0	6.0	3.0	2.5	2.5	2.0	1.5	2.0	2.0	1.5	2.0
22	6.0	5.5	6.0	3.0	2.5	2.5	2.0	1.5	1.5	2.0	2.0	2.0
23	6.0	5.0	5.5	3.0	2.5	2.5	1.5	.5	1.0	2.0	1.0	1.5
24	6.0	5.5	5.5	3.0	2.5	2.5	1.5	.5	1.0	2.0	1.5	2.0
25	6.0	5.5	5.5	2.5	.5	2.0	2.0	1.0	1.5	2.0	.5	1.5
26	5.5	4.5	5.0	2.5	1.5	2.0	2.0	1.0	1.5	2.0	.0	1.5
27	5.0	4.5	5.0	2.0	1.0	1.5	2.0	1.0	1.5	1.5	.0	1.0
28	5.0	4.0	4.5	1.0	.5	.5	2.0	1.0	1.5	2.0	1.0	1.5
29	4.5	3.5	4.0	.5	.0	.5	1.5	1.0	1.5	2.0	1.0	1.5
30	4.0	3.0	3.5	2.0	.0	1.0	1.5	1.0	1.5	2.0	2.0	2.0
31	4.0	2.0	3.0	---	---	---	1.0	1.0	1.0	2.0	1.0	2.0
MONTH	8.5	2.0	6.1	4.0	.0	2.9	2.5	.0	1.4	2.5	.0	1.2

15129500 SITUK RIVER NEAR YAKUTAT--Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.0	.5	1.0	3.0	2.0	2.5	3.5	1.5	2.5	5.5	3.5	4.5
2	2.0	1.5	2.0	3.0	2.0	2.5	3.5	2.0	2.5	8.0	3.0	5.0
3	2.0	1.0	1.5	2.5	1.0	2.0	4.0	2.0	2.5	8.5	3.5	5.5
4	2.0	1.0	1.5	2.5	1.0	1.5	3.0	2.0	2.5	6.5	4.5	5.5
5	2.5	2.0	2.0	2.5	1.0	2.0	4.0	2.0	3.0	7.5	3.5	5.5
6	2.5	2.0	2.0	2.0	.0	1.0	3.0	1.5	2.5	8.5	4.0	6.0
7	2.5	1.5	2.0	2.0	.0	1.0	5.0	1.5	3.0	8.5	5.0	6.5
8	2.0	1.0	1.5	2.0	.0	1.0	3.5	1.5	2.5	10.0	4.0	6.5
9	2.0	1.0	1.5	1.5	.0	.5	5.0	1.0	3.0	10.5	4.5	7.5
10	2.5	1.5	2.0	2.0	.0	1.0	4.5	1.0	2.5	11.5	6.0	8.5
11	1.5	.5	1.0	3.5	.5	2.0	5.0	2.0	3.5	11.5	6.0	8.5
12	1.0	.0	.5	3.5	1.5	2.5	6.0	2.0	4.0	11.5	5.5	8.5
13	.5	.0	.5	4.0	2.0	3.0	6.0	1.5	3.5	8.5	6.0	7.5
14	.5	.0	.5	3.5	2.0	2.5	6.0	1.5	3.5	9.0	6.5	7.5
15	1.5	.0	1.0	3.5	2.0	2.5	6.5	1.5	4.0	8.5	6.5	7.5
16	2.5	1.0	2.0	3.5	2.0	3.0	6.0	2.5	4.5	9.5	6.5	8.0
17	2.0	.5	1.0	2.5	2.0	2.0	4.5	3.0	3.5	11.0	7.0	8.5
18	2.5	1.0	2.0	3.5	1.5	2.5	4.5	2.5	3.5	9.5	7.5	8.5
19	2.0	1.5	1.5	3.5	1.0	2.5	3.5	2.0	2.5	9.0	7.0	8.0
20	2.0	1.0	1.5	3.5	.5	2.0	3.0	2.0	2.5	10.5	7.0	8.5
21	2.0	1.0	1.5	3.0	2.0	2.5	4.0	2.0	2.5	9.0	6.5	8.0
22	2.0	.5	1.0	3.5	1.5	2.5	4.0	2.0	3.0	8.0	7.0	7.5
23	2.0	1.0	1.5	3.5	2.0	2.5	5.5	2.0	3.5	8.5	6.5	7.5
24	2.5	1.0	1.5	4.0	2.0	3.0	4.5	2.5	3.5	9.5	6.0	7.5
25	2.5	1.5	2.0	2.5	1.0	2.0	7.0	2.5	4.5	11.5	6.0	8.5
26	2.5	1.5	2.0	1.5	1.0	1.0	5.5	2.5	4.0	11.5	6.5	9.0
27	2.0	1.0	1.5	1.0	.5	1.0	6.5	2.5	4.0	12.5	6.5	9.5
28	2.5	1.0	1.5	2.5	1.0	1.5	5.0	3.5	4.0	14.5	7.5	10.5
29	3.0	1.5	2.0	2.5	1.5	1.5	6.5	3.5	4.5	13.0	8.5	10.5
30	---	---	---	2.0	1.0	1.5	5.5	4.0	4.5	11.5	9.0	10.0
31	---	---	---	3.5	1.5	2.5	---	---	---	13.0	8.5	10.5
MONTH	3.0	.0	1.5	4.0	.0	2.0	7.0	1.0	3.3	14.5	3.0	7.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	14.5	8.0	11.0	13.5	11.5	12.5	14.0	11.0	12.5	13.0	9.0	10.5
2	14.0	9.0	11.0	14.0	12.0	13.0	14.5	11.0	13.0	12.0	9.5	10.5
3	15.5	9.0	12.0	15.0	12.0	13.5	13.5	12.0	13.0	11.0	10.0	10.5
4	16.0	9.0	12.5	15.0	11.5	13.5	13.0	12.0	12.5	10.5	9.5	10.0
5	16.0	11.0	13.5	13.0	12.0	12.5	13.5	12.0	12.5	12.0	9.5	10.5
6	14.0	11.5	12.5	17.0	11.5	14.0	13.5	12.0	12.5	11.0	10.0	10.5
7	11.5	11.0	11.5	14.5	11.5	13.0	15.0	11.0	13.0	12.0	10.0	11.0
8	13.5	10.5	12.0	13.5	12.5	13.0	15.0	11.5	13.0	11.0	10.0	10.5
9	16.0	9.5	12.5	14.0	12.5	13.0	16.0	10.5	13.0	12.0	9.0	10.5
10	16.5	11.0	13.5	13.5	12.0	13.0	16.0	10.5	13.0	11.0	9.5	10.0
11	14.0	11.5	13.0	13.5	12.0	12.5	14.5	11.5	13.0	10.0	9.0	9.5
12	17.0	10.5	13.5	12.5	11.0	11.5	13.5	11.5	12.5	11.0	9.5	10.0
13	14.0	12.0	12.5	13.0	11.0	12.0	14.0	10.5	12.5	10.5	10.0	10.0
14	12.0	11.5	11.5	13.0	12.0	12.5	12.5	11.5	12.0	10.5	9.5	10.0
15	13.0	11.0	12.0	14.0	12.0	13.0	12.0	11.0	11.5	10.0	9.5	9.5
16	12.0	11.0	11.5	13.0	12.0	12.5	14.5	11.0	12.5	10.0	9.5	9.5
17	12.0	10.5	11.5	14.0	12.0	13.0	15.5	11.5	13.0	9.5	9.5	9.5
18	12.0	10.5	11.5	13.5	12.0	12.5	14.0	11.0	12.5	10.0	9.0	9.5
19	12.0	11.0	11.5	13.5	12.0	12.5	12.5	11.0	11.5	9.5	8.5	9.0
20	12.0	10.5	11.5	13.5	12.0	12.5	12.0	10.5	11.0	10.0	8.0	8.5
21	12.5	10.5	11.0	12.0	11.5	11.5	12.0	11.0	11.5	10.0	8.0	9.0
22	11.5	10.0	11.0	12.0	11.5	11.5	11.5	11.0	11.5	9.5	9.0	9.0
23	15.5	9.5	12.0	13.0	11.5	12.0	13.5	10.5	11.5	9.5	9.0	9.0
24	16.5	10.0	13.0	13.5	11.5	12.5	13.0	10.0	11.5	10.0	9.5	9.5
25	14.0	11.5	12.5	13.5	11.5	12.5	12.5	10.5	11.5	9.5	9.5	9.5
26	14.0	12.0	13.0	14.0	11.5	12.5	13.0	10.5	11.5	9.5	9.5	9.5
27	13.5	12.5	13.0	15.0	11.5	13.0	11.5	10.5	11.0	9.5	9.5	9.5
28	14.0	12.0	13.0	14.5	11.5	13.0	13.0	9.5	11.0	10.0	9.0	9.5
29	12.5	11.0	12.0	14.0	12.5	13.0	12.0	9.0	10.5	9.5	9.0	9.0
30	13.5	11.5	12.5	14.0	11.0	12.5	13.0	10.5	11.5	9.0	8.0	8.5
31	---	---	---	13.5	11.5	12.5	13.0	9.0	11.0	---	---	---
MONTH	17.0	8.0	12.2	17.0	11.0	12.6	16.0	9.0	12.1	13.0	8.0	9.7

15129600 OPHIR CREEK NEAR YAKUTAT

LOCATION.--Lat 59°31′26″, long 139°44′37″, in SW¼ NW¼ NE¼ sec. 1, T. 28 S., R. 33 E. (Yakutat C-5 SW quad), Hydrologic Unit 19010401, in Tongass National Forest, on right bank 0.8 mi upstream from Summit Lake and 2 mi south of Yakutat.

DRAINAGE AREA.-- 2.5 mi^2, approximately.

PERIOD OF RECORD.--October 1991 to current year.

GAGE.--Water-stage recorder. Datum of gage is 9.05 ft above sea level, determined by levels survey.

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

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	32	75	30	e61	15	9.0	30	26	4.7	2.5	5.1	4.8
2	31	64	32	e53	13	9.3	29	26	4.2	2.4	4.8	4.6
3	31	57	36	e44	12	13	30	24	3.8	2.3	4.7	4.5
4	30	54	39	e39	12	12	30	22	3.5	2.2	4.6	7.3
5	50	53	37	e36	11	11	30	21	3.4	2.2	4.5	7.6
6	67	48	34	e34	9.9	10	28	19	3.2	2.2	4.2	16
7	64	48	31	e35	9.3	9.4	27	18	3.1	2.1	3.8	14
8	57	47	29	e36	8.4	8.5	25	17	3.1	2.0	3.7	13
9	51	45	28	e33	7.9	8.1	23	16	2.8	2.0	3.5	11
10	51	46	26	e30	7.1	7.4	22	15	2.7	1.9	3.5	12
11	53	43	26	27	6.5	6.6	20	13	2.5	2.0	3.3	27
12	67	40	25	25	6.2	6.4	18	12	2.3	5.1	3.2	22
13	63	40	24	23	6.0	6.0	17	12	2.3	5.1	3.1	18
14	55	39	23	22	5.8	5.9	16	11	2.3	3.7	3.7	21
15	50	38	e22	20	5.7	5.8	15	11	2.1	3.4	9.9	22
16	65	42	e22	19	5.4	7.8	14	9.9	2.2	3.2	9.0	21
17	57	44	e21	18	5.5	12	16	9.3	2.4	6.6	7.4	27
18	99	42	e20	17	6.9	11	21	9.1	2.4	4.4	6.3	23
19	116	41	e24	16	14	10	23	8.5	2.4	3.6	8.2	20
20	93	42	e32	16	17	12	34	8.0	2.8	3.4	16	18
21	85	44	e40	15	15	12	41	7.8	3.2	3.5	13	16
22	88	43	e55	14	13	12	41	9.4	3.2	8.7	12	15
23	78	41	e95	13	11	13	36	11	3.1	9.4	12	16
24	69	39	e100	12	13	15	32	11	2.8	8.7	11	26
25	64	38	e102	13	12	20	29	9.7	2.6	7.6	9.5	25
26	62	36	e111	13	12	43	28	8.9	2.4	6.8	8.3	32
27	57	33	e118	15	11	55	26	7.9	2.4	6.2	7.7	59
28	53	32	e97	13	10	44	25	7.3	2.4	5.8	7.0	67
29	49	30	e94	13	9.7	39	24	6.4	2.6	5.4	6.3	54
30	46	29	e79	13	---	35	26	5.8	2.8	5.0	6.0	44
31	49	---	e69	17	---	33	---	5.2	---	5.3	5.1	---
TOTAL	1882	1313	1521	755	291.3	502.2	776	398.2	85.7	134.7	210.4	667.8
MEAN	60.7	43.8	49.1	24.4	10.0	16.2	25.9	12.8	2.86	4.35	6.79	22.3
MAX	116	75	118	61	17	55	41	26	4.7	9.4	16	67
MIN	30	29	20	12	5.4	5.8	14	5.2	2.1	1.9	3.1	4.5
AC-FT	3730	2600	3020	1500	578	996	1540	790	170	267	417	1320
CFSM	24.3	17.5	19.6	9.74	4.02	6.48	10.3	5.14	1.14	1.74	2.71	8.90
IN.	28.00	19.54	22.63	11.23	4.33	7.47	11.55	5.93	1.28	2.00	3.13	9.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)

MEAN	30.8	24.2	23.8	16.3	14.7	15.3	16.6	14.6	7.55	4.58	9.03	19.8
MAX	60.7	43.8	49.1	33.2	35.9	38.3	28.3	34.4	19.7	9.67	19.4	30.8
(WY)	2000	2000	2000	1992	1997	1992	1998	1999	1999	1998	1998	1998
MIN	20.5	12.6	8.96	5.13	3.31	4.13	7.85	6.17	2.01	.66	1.32	5.90
(WY)	1998	1996	1996	1993	1999	1999	1993	1996	1993	1993	1993	1993

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000	
ANNUAL TOTAL	8544.3		8537.3			
ANNUAL MEAN	23.4		23.3		16.4	
HIGHEST ANNUAL MEAN					23.3	2000
LOWEST ANNUAL MEAN					10.9	1993
HIGHEST DAILY MEAN	e118	Dec 27	e118	Dec 27	e118	Dec 27 1999
LOWEST DAILY MEAN	1.7	Mar 9	1.9	Jul 10	.27	Jul 31 1993
ANNUAL SEVEN-DAY MINIMUM	1.9	Mar 4	2.1	Jul 5	.39	Jul 28 1993
INSTANTANEOUS PEAK FLOW			a159	Oct 18	a159	Oct 18 1999
INSTANTANEOUS PEAK STAGE			a12.55	Oct 18	a12.55	Oct 18 1999
INSTANTANEOUS LOW FLOW			b1.9	Jun 16	c.21	Jul 28 1993
ANNUAL RUNOFF (AC-FT)	16950		16930		11900	
ANNUAL RUNOFF (CFSM)	9.36		9.33		6.57	
ANNUAL RUNOFF (INCHES)	127.14		127.04		89.31	
10 PERCENT EXCEEDS	54		54		34	
50 PERCENT EXCEEDS	14		15		13	
90 PERCENT EXCEEDS	3.3		3.2		3.6	

a May have been exceeded during period of gage malfunction from Dec. 25 to 28, 1999
b Jun. 16, Jul. 8 to Jul. 11
c Minimum recorded, Jul. 28, Aug. 2, Aug. 7 to Aug. 10, 1993, but may have been less during period water was below intake Jul. 28, Aug. 2, and Aug. 8 to Aug. 10, 1993
e Estimated

15200280 GULKANA RIVER AT SOURDOUGH

LOCATION.--Lat 62°31′15″, long 145°31′51″, in SE¼ NE¼ sec. 35, T. 9 N., R. 2 W. (Gulkana C-4 quad), Hydrologic Unit 19020102, near left bank on downstream side of pier of Alyeska Pipeline Service Company bridge, 0.3 mi downstream from Sourdough Creek and 0.8 mi southwest of Sourdough.

DRAINAGE AREA.--1,770 mi^2.

PERIOD OF RECORD.--October 1972 to September 1978, May to September 1982, October 1988 to September 1993, May 1997 to current year.

REVISED RECORDS.--WRD AK-75-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 1,845.96 ft above sea level (levels of Alyeska Engineering).

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

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	1060	e600	e360	e300	e260	e240	e230	e240	4260	3180	1270	2630
2	1140	e550	e360	e300	e260	e240	e230	e250	4130	2870	1180	2380
3	1370	e550	e360	e300	e260	e240	e230	e260	3970	2600	1160	2230
4	e1700	e550	e360	e300	e260	e240	e230	e270	3940	2400	1130	2200
5	1720	e500	e360	e290	e250	e240	e230	e280	4100	2220	1110	2160
6	1720	e500	e360	e290	e250	e240	e230	e290	4280	2560	1100	2070
7	1730	e500	e360	e290	e250	e240	e230	e300	4500	2900	1100	2060
8	1670	e480	e360	e290	e250	e240	e230	e320	4700	2610	1100	2050
9	1560	e480	e360	e290	e250	e240	e230	e340	4560	2320	1050	2000
10	1400	e480	e340	e290	e250	e240	e230	e360	3900	2100	1000	1920
11	1240	e460	e340	e290	e250	e240	e230	e380	3560	1980	971	1980
12	1170	e460	e340	e280	e250	e240	e230	e400	3450	1940	950	2160
13	1180	e460	e340	e280	e250	e240	e230	e430	3190	1890	939	2380
14	1140	e440	e340	e280	e250	e240	e230	e450	3030	1950	970	2440
15	1000	e440	e340	e280	e250	e240	e230	e470	2990	2110	983	2330
16	968	e440	e340	e280	e240	e230	e220	e500	2990	2030	983	2210
17	983	e420	e340	e280	e240	e230	e220	e550	2910	1940	926	2090
18	1040	e420	e340	e280	e240	e230	e220	e600	2910	1910	902	1990
19	1260	e420	e320	e270	e240	e230	e220	e650	3120	1930	958	1870
20	1470	e400	e320	e270	e240	e230	e220	e700	3020	1870	1010	1780
21	1310	e400	e320	e270	e240	e230	e220	e750	2720	1750	1030	1720
22	1210	e400	e320	e270	e240	e230	e220	e800	2560	1680	1060	1700
23	1130	e400	e320	e270	e240	e230	e220	e850	2460	1660	1170	1740
24	977	e400	e320	e270	e240	e230	e220	e850	2360	1650	1210	1930
25	e750	e380	e300	e270	e240	e230	e220	e900	2250	1570	1180	2480
26	e700	e380	e300	e260	e240	e230	e220	1080	2140	1530	1180	3250
27	e700	e380	e300	e260	e240	e230	e230	1260	2060	1530	1170	3570
28	e650	e380	e300	e260	e240	e230	e230	1410	2200	1480	1290	3360
29	e650	e380	e300	e260	e240	e230	e240	e2500	2640	1470	1330	2960
30	e600	e380	e300	e260	---	e230	e240	e4300	3230	1430	1790	2620
31	e600	---	e300	e260	---	e230	---	4370	---	1330	2810	---
TOTAL	35798	13430	10320	8640	7150	7280	6810	27110	98130	62390	36012	68260
MEAN	1155	448	333	279	247	235	227	875	3271	2013	1162	2275
MAX	1730	600	360	300	260	240	240	4370	4700	3180	2810	3570
MIN	600	380	300	260	240	230	220	240	2060	1330	902	1700
AC-FT	70910	26640	20470	17140	14180	14440	13510	53770	194600	123800	71430	135400
CFSM	.65	.25	.19	.16	.14	.13	.13	.49	1.85	1.14	.66	1.29
IN.	.75	.28	.22	.18	.15	.15	.14	.57	2.06	1.31	.76	1.43

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY)#

MEAN	959	533	393	335	301	299	473	3270	2825	1514	1288	1407
MAX	1877	1020	777	629	478	420	1344	5630	4969	2696	2821	4253
(WY)	1991	1989	1989	1989	1989	1992	1993	1989	1977	1992	1992	1990
MIN	437	287	208	200	200	200	227	875	1150	637	714	505
(WY)	1975	1976	1974	1974	1974	1974	2000	2000	1998	1976	1989	1974

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000#	
ANNUAL TOTAL	357033		381330			
ANNUAL MEAN	978		1042		1137	
HIGHEST ANNUAL MEAN					1564	1992
LOWEST ANNUAL MEAN					658	1998
HIGHEST DAILY MEAN	5210	May 16	4700	Jun 8	12100	Sep 12 1990
LOWEST DAILY MEAN	a210	Mar 19	b220	Apr 16	c200	Dec 6 1973
ANNUAL SEVEN-DAY MINIMUM	210	Mar 19	220	Apr 16	200	Dec 6 1973
INSTANTANEOUS PEAK FLOW			4890	Jun 8	d12700	Sep 12 1990
INSTANTANEOUS PEAK STAGE			8.33	Jun 8	11.26	Sep 12 1990
INSTANTANEOUS PEAK STAGE					f16.03	May 7 1976
ANNUAL RUNOFF (AC-FT)	708200		756400		823500	
ANNUAL RUNOFF (CFSM)	.55		.59		.64	
ANNUAL RUNOFF (INCHES)	7.50		8.01		8.73	
10 PERCENT EXCEEDS	2150		2600		2890	
50 PERCENT EXCEEDS	600		455		650	
90 PERCENT EXCEEDS	220		230		250	

\# See period of record, partial years used in monthly statistics
a From Mar. 19 to Apr. 11
b Apr. 16-26
c Dec. 6 1973 to Apr. 12, 1974
d From rating curve extended above 4,600 ft^3/s
e Estimated
f Backwater from ice

15215990 NICOLET CREEK NEAR CORDOVA

LOCATION.--Lat 60°31′09″, long 145°47′23″, in SW¼ SW¼ SE¼ sec. 32, T. 15 S., R. 3 W. (Cordova C-5 quad), Hydrologic Unit 19020201, on right bank 275 ft upstream from culvert for Whitshed Road, 475 ft upstream from mouth and 2.1 mi southwest of Cordova.

DRAINAGE AREA.--0.75 mi^2.

PERIOD OF RECORD.--Annual maximum, water years 1991-99. September 1999 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 40 ft above sea level, from topographic map.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 988 ft^3/s, November 3,1994 (at site 275 ft downstream from present gage site), gage height 19.60 ft from crest stage gage then in use.

REMARKS.--Records good except for discharges greater than 60 ft^3/s, which are fair; and estimated daily discharges, which are poor.

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	---	---	---	---	---	---	---	---	---	---	---	e1.0
2	---	---	---	---	---	---	---	---	---	---	---	e1.0
3	---	---	---	---	---	---	---	---	---	---	---	e2.0
4	---	---	---	---	---	---	---	---	---	---	---	e15
5	---	---	---	---	---	---	---	---	---	---	---	e1.0
6	---	---	---	---	---	---	---	---	---	---	---	e1.0
7	---	---	---	---	---	---	---	---	---	---	---	e1.0
8	---	---	---	---	---	---	---	---	---	---	---	e1.0
9	---	---	---	---	---	---	---	---	---	---	---	e1.0
10	---	---	---	---	---	---	---	---	---	---	---	e1.5
11	---	---	---	---	---	---	---	---	---	---	---	.89
12	---	---	---	---	---	---	---	---	---	---	---	22
13	---	---	---	---	---	---	---	---	---	---	---	18
14	---	---	---	---	---	---	---	---	---	---	---	10
15	---	---	---	---	---	---	---	---	---	---	---	8.2
16	---	---	---	---	---	---	---	---	---	---	---	4.4
17	---	---	---	---	---	---	---	---	---	---	---	50
18	---	---	---	---	---	---	---	---	---	---	---	57
19	---	---	---	---	---	---	---	---	---	---	---	23
20	---	---	---	---	---	---	---	---	---	---	---	36
21	---	---	---	---	---	---	---	‡8.3	---	---	---	17
22	---	---	---	---	---	---	---	---	---	---	---	21
23	---	---	---	---	---	---	---	---	---	---	---	13
24	---	---	---	---	---	---	---	---	---	‡.65	---	5.9
25	---	---	---	---	---	---	---	---	---	---	---	7.5
26	---	---	---	---	---	---	---	---	---	---	---	3.3
27	---	---	---	---	---	---	---	---	---	---	---	2.1
28	---	---	---	---	---	---	---	---	---	---	---	1.6
29	---	---	---	---	---	---	---	---	---	---	---	1.6
30	---	---	---	---	---	---	‡5.9	---	---	---	---	14
31	---	---	---	---	---	---	---	---	---	---	---	---
TOTAL	---	---	---	---	---	---	---	---	---	---	---	341.99
MEAN	---	---	---	---	---	---	---	---	---	---	---	11.4
MAX	---	---	---	---	---	---	---	---	---	---	---	57
MIN	---	---	---	---	---	---	---	---	---	---	---	.89
AC-FT	---	---	---	---	---	---	---	---	---	---	---	678

‡ Result of discharge measurement
e Estimated

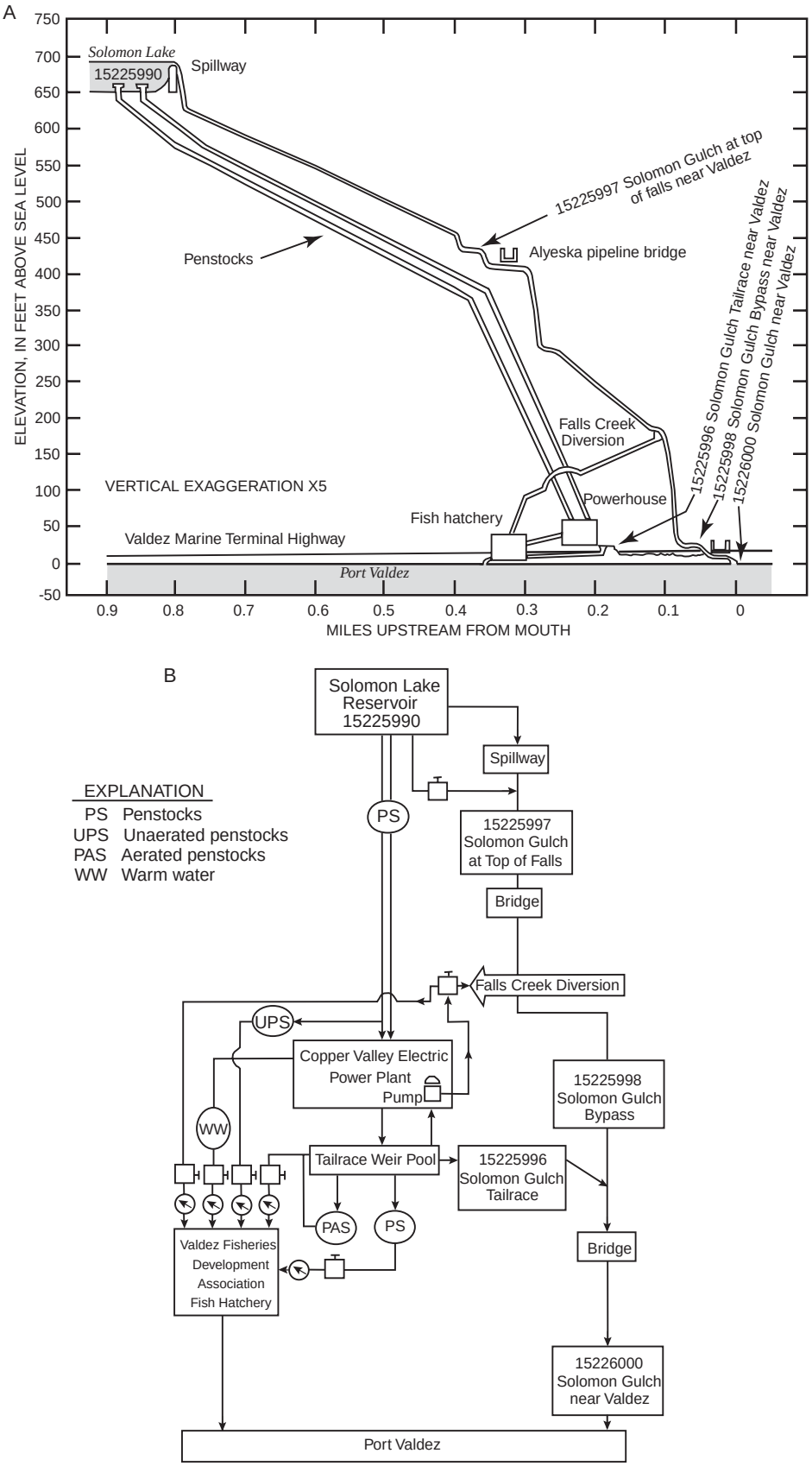
15215990 NICOLET CREEK NEAR CORDOVA--continued

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	42	22	1.5	e3.0	12	1.9	6.0	25	10	2.3	14	1.6
2	36	5.4	e1.5	e2.5	21	2.0	11	13	9.4	1.7	15	1.5
3	8.4	3.0	e1.7	e2.0	59	9.4	8.8	9.6	9.6	1.6	21	5.0
4	31	2.5	e1.6	e1.5	7.6	8.0	7.6	14	9.3	1.3	28	3.9
5	63	25	e1.6	e1.5	64	4.2	7.5	53	9.0	2.9	4.4	3.9
6	18	20	e1.6	1.6	35	5.5	5.9	10	8.1	1.7	2.5	17
7	8.8	11	e1.5	52	13	9.8	4.7	28	32	1.2	1.9	4.8
8	28	3.9	1.3	22	5.8	7.1	4.0	15	21	1.2	1.7	2.4
9	11	3.2	1.1	3.6	4.3	8.6	3.7	10	8.2	2.2	1.5	1.8
10	5.4	e2.5	1.0	2.8	4.7	11	3.5	11	6.4	2.3	1.4	33
11	5.1	e2.0	1.4	2.1	4.1	8.8	2.8	10	6.1	1.5	1.3	12
12	7.7	2.1	1.2	e1.7	3.3	35	2.8	10	6.2	1.5	1.2	15
13	15	11	1.0	e1.4	2.8	9.4	3.6	11	6.0	1.4	1.3	12
14	7.0	18	.96	e1.2	e2.5	6.1	4.4	28	7.8	1.1	2.6	4.0
15	3.6	14	.89	e1.1	e2.0	7.5	4.9	37	4.4	1.4	1.6	3.7
16	42	7.0	.92	e1.1	e2.0	19	5.9	16	4.0	25	1.3	5.4
17	50	33	.88	e1.1	2.2	20	6.8	9.5	3.5	24	1.2	7.8
18	87	6.4	.89	1.2	6.6	6.6	30	30	3.3	6.7	1.2	3.6
19	52	12	18	35	35	4.2	40	17	17	3.2	1.2	2.7
20	8.3	6.4	31	84	10	8.8	48	24	40	1.9	1.2	2.4
21	5.8	7.3	140	4.8	6.1	6.2	35	8.8	4.9	8.5	1.4	3.1
22	9.7	3.8	121	2.5	3.9	4.8	9.7	9.7	2.9	30	3.9	18
23	6.1	2.9	31	1.8	e3.5	3.7	4.7	17	2.3	9.3	8.1	25
24	2.6	2.3	5.2	4.3	e3.0	12	3.9	9.5	2.1	2.9	6.8	37
25	3.5	1.9	66	6.5	e2.5	15	7.1	9.5	1.8	1.9	2.7	11
26	4.6	e1.5	98	2.7	e2.5	29	9.3	9.9	2.9	1.5	1.6	8.2
27	3.4	e1.3	70	2.9	2.1	21	14	11	2.5	1.2	2.7	15
28	2.5	e1.3	15	2.4	2.0	5.0	8.6	11	4.6	1.4	1.6	5.5
29	2.9	e1.4	6.3	1.7	1.9	8.7	8.8	11	7.5	19	14	3.6
30	2.1	1.5	e4.0	e14	---	9.1	21	10	5.8	6.2	6.1	2.8
31	34	---	e3.5	73	---	8.9	---	9.1	---	5.2	2.1	---
TOTAL	606.5	235.6	631.54	339.0	324.4	316.3	334.0	497.6	258.6	173.2	156.5	272.7
MEAN	19.6	7.85	20.4	10.9	11.2	10.2	11.1	16.1	8.62	5.59	5.05	9.09
MAX	87	33	140	84	64	35	48	53	40	30	28	37
MIN	2.1	1.3	.88	1.1	1.9	1.9	2.8	8.8	1.8	1.1	1.2	1.5
AC-FT	1200	467	1250	672	643	627	662	987	513	344	310	541

SUMMARY STATISTICS	FOR 2000 WATER YEAR	
ANNUAL TOTAL	4145.94	
ANNUAL MEAN	11.3	
HIGHEST DAILY MEAN	140	Dec 21
LOWEST DAILY MEAN	.88	Dec 17
ANNUAL SEVEN-DAY MINIMUM	.96	Dec 12
INSTANTANEOUS PEAK FLOW	257	Dec 21
INSTANTANEOUS PEAK STAGE	24.78	Dec 21
ANNUAL RUNOFF (AC-FT)	8220	
ANNUAL RUNOFF (CFSM)	15.1	
ANNUAL RUNOFF (INCHES)	205.64	
10 PERCENT EXCEEDS	30	
50 PERCENT EXCEEDS	5.5	
90 PERCENT EXCEEDS	1.4	

e Estimated



Solomon Gulch (A) profile and (B) schematic diagram of flows.

15225990 SOLOMON LAKE NEAR VALDEZ

LOCATION.--Lat 61°04′25″, long 146°18′08″, in NE¼ SW¼ sec. 21, T. 9 S.,R. 6 W.(Valdez A-7 SE quad), Hydrologic Unit 19020201, within Valdez Corporate boundary, at outlet of Solomon Lake, 0.7 mi upstream from mouth of Solomon Gulch, and 4.6 mi southeast of Valdez.

DRAINAGE AREA.--19.2 mi^2.

PERIOD OF RECORD.--October 1991 to current year. Additional unpublished records prior to period of record available from Copper Valley Electric Association and in station files of Geological Survey.

REMARKS.--Reservoir is formed by a rockfill dam at outlet of Solomon Lake. Reservoir is used for power; power-plant operation began January 6, 1982. Usable capacity is 31,500 acre-feet below spillway crest at 685 ft. Discharge released to the penstocks is accounted for at Solomon Gulch Tailrace (station 15225996). Releases through the dam to maintain minimum flows, spillway releases, and incremental flow are accounted for at the Solomon Gulch at top of falls gage (station 15225997).

COOPERATION.--Reservoir contents furnished by Copper Valley Electric Association.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents 32,500 acre-ft, September 21, 1993, from crest-stage gage and rating extended above 31,500 acre-ft; minimum contents, 2,167 acre-ft, May 1, 1995.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 31,900 acre-ft August 4; minimum contents, 2,970 acre-ft, May 8.

MONTH END RESERVOIR ELEVATION, IN FEET, AND CONTENTS, IN ACRE FEET
WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
SEP 30	683.7	30,400	----
OCT 31	683.3	30,100	-300
NOV 30	678.2	26,600	-3,500
DEC 31	674.1	24,300	-2,300
JAN 31	664.3	19,200	-5,100
FEB 28	649.7	12,500	-6,700
MAR 31	634.1	6,700	-5,800
APR 30	621.4	3,100	-3,600
MAY 31	629.5	5,200	+2,100
JUN 30	667.7	20,800	+15,600
JUL 31	685.3	31,500	+10,700
AUG 31	682.1	29,100	-2,400
SEP 30	684.5	30,100	+2,000
		CAL YR 1999	+2,300
		WTR YR 2000	+700

15225996 SOLOMON GULCH TAILRACE NEAR VALDEZ

LOCATION.--Lat 61°05′01″, long 146°18′10″, in NE¼ SE¼ SW¼ sec. 16, T. 9 S., R. 6 W. (Valdez A-7 SE quad), Hydrologic Unit 19020201, within Valdez Corporate boundary, on left wingwall of tailrace pool of Copper Valley Electric Association powerhouse facility, 350 ft upstream from mouth at Solomon Gulch, and 3.8 mi southeast of Valdez.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1986 to current year.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 40 ft above sea level, from topographic map.

REMARKS.--Records good. Discharge shown herein is flow through the Solomon Gulch Power Plant turbines. Solomon Lake, 0.8 mi upstream, supplies water to the power-plant through two 48-in. diameter penstocks. Water for the fish hatchery, diverted upstream from the gage, is not included in these published daily values. Annual mean discharge for these diversions for 2000 water year was 10.3 ft^3/s.

COOPERATION.--Records of daily discharge diverted to the fish hatchery are furnished by Valdez Fisheries Development Association. Copper Valley Electric Association provides tables of hourly power output through the turbines.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 293 ft^3/s, January 2 and 3, 1992, gage height, 3.04 ft; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 265 ft^3/s, May 18, gage height, 3.01 ft; no flow for periods on October 15, May 15, 24, and September 19.

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	173	55	68	89	140	104	56	45	178	210	183	181
2	171	59	65	104	152	108	62	46	108	207	206	204
3	165	62	54	112	107	89	89	45	117	211	195	210
4	179	57	66	124	146	101	59	47	169	208	183	205
5	180	56	66	123	134	92	65	70	176	217	175	210
6	176	55	74	89	118	93	71	88	134	202	187	206
7	178	60	92	90	118	115	74	95	79	187	193	205
8	176	65	81	100	109	116	63	95	144	175	199	165
9	170	74	85	106	111	122	76	68	168	176	156	96
10	167	71	76	124	113	110	55	87	171	188	147	96
11	95	71	64	116	134	78	58	88	212	180	143	84
12	66	63	66	113	124	74	61	88	189	180	137	106
13	68	52	77	83	110	89	55	83	154	188	147	156
14	55	52	94	81	113	59	54	85	213	187	146	121
15	38	62	100	78	112	95	53	138	177	173	145	79
16	54	71	100	93	105	153	53	182	191	180	144	144
17	54	62	100	92	96	88	54	225	198	203	144	146
18	144	70	108	106	94	82	54	231	208	209	153	81
19	195	69	99	89	90	96	59	226	185	192	150	81
20	195	72	74	84	89	83	64	219	106	193	155	131
21	196	70	78	81	85	58	88	218	176	192	190	158
22	195	61	155	85	102	55	102	179	213	189	221	152
23	191	58	105	80	139	77	88	223	170	178	222	154
24	185	58	76	78	116	111	71	130	170	174	218	143
25	100	53	78	109	114	96	55	210	209	139	201	141
26	50	56	85	126	114	92	42	209	216	184	207	145
27	57	56	99	121	114	89	42	205	214	193	210	169
28	56	61	82	151	92	82	39	202	216	157	217	186
29	54	70	81	136	92	80	40	202	194	191	195	186
30	74	72	83	128	---	68	55	182	196	181	217	178
31	50	---	91	122	---	54	---	185	---	181	219	---
TOTAL	3907	1873	2622	3213	3283	2809	1857	4396	5251	5825	5605	4519
MEAN	126	62.4	84.6	104	113	90.6	61.9	142	175	188	181	151
MAX	196	74	155	151	152	153	102	231	216	217	222	210
MIN	38	52	54	78	85	54	39	45	79	139	137	79
AC-FT	7750	3720	5200	6370	6510	5570	3680	8720	10420	11550	11120	8960

CAL YR 1999 TOTAL 42857 MEAN 117 MAX 230 MIN 38 AC-FT 85010
WTR YR 2000 TOTAL 45160 MEAN 123 MAX 231 MIN 38 AC-FT 89570

15225997 SOLOMON GULCH AT TOP OF FALLS NEAR VALDEZ

LOCATION.--Lat 61°04′45″, long 146°18′11″, in SE¼ NE¼ NW¼ sec. 21, T. 9 S., R. 6 W. (Valdez A-7 SE quad), Hydrologic Unit 19020201, within Valdez Corporate boundary, on right bank, 72 ft above Alyeska Pipeline Service Company Bridge, 150 ft upstream from top of falls, 0.3 mi upstream from mouth, and 4.2 mi southeast of Valdez.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--September 1986 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 400 ft above sea level, from topographic map. Prior to October 1, 1991, discharge computed for site 150 ft downstream at datum 72.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Discharge shown herein represents controlled releases from bypass valve and flow over the spillway of dam at Solomon Lake, 0.5 mi upstream, plus inflow between the spillway and the gage. Spillway crest elevation is 685 ft above sea level, from construction plans. Water for power generation is diverted from Solomon Lake (see records for station 15225996). Water is diverted for fish hatchery use 1,150 ft downstream from gage. Reservoir spilled September 18-27.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,280 ft^3/s, October 11, 1986, by computation of peak flow by several indirect measurement methods; gage height, 82.20 ft from water surface profiles for 1986 flood at top of falls and at datum 72.00 ft lower (12.90 ft from profile at present site and datum); minimum daily discharge, about 0.20 ft^3/s, January 23 to April 6, 1989.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 801 ft^3/s, August 4, gage height, 7.14 ft; minimum daily discharge, 1.9 ft^3/s, April 25 and 26.

REVISIONS.--Revised daily discharges, in cubic feet per second, for August and September 1999, are given below. These figures supersede those published in the report for 1999.

Aug. 17	5.4	Aug. 29	3.0	Sep. 10	5.3	Sep. 22	198
18	4.9	30	3.0	11	5.2	23	151
19	4.7	31	3.3	12	5.5	24	73
20	4.7	Sep. 1	4.4	13	8.0	25	107
21	4.7	2	13	14	6.9	26	18
22	4.9	3	23	15	6.0	27	3.5
23	3.7	4	12	16	6.3	28	3.2
24	3.5	5	7.2	17	12	29	2.8
25	3.3	6	6.1	18	38	30	4.4
26	3.3	7	5.5	19	415		
27	3.2	8	5.6	20	361		
28	3.1	9	5.3	21	211		

MONTH	TOTAL	MEAN	MAX	MIN	AC-FT
Aug. 1999	140.3	4.53	9.4	3.0	278
Sep. 1999	1723.2	57.4	415	2.8	3420
Wtr Yr 1999	3320.0	9.10	415	2.6	6590

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	6.1	6.2	5.1	9.2	7.6	5.8	3.2	6.7	14	3.3	170	3.4
2	16	5.8	5.0	8.7	7.9	5.6	3.1	7.8	15	3.3	139	3.5
3	7.0	5.5	5.1	8.1	8.6	5.5	3.2	10	14	3.2	378	3.6
4	5.7	5.5	5.1	7.3	8.0	5.3	4.0	10	15	e3.1	663	3.7
5	11	5.6	5.0	7.1	7.7	5.3	3.7	14	16	e2.9	593	3.6
6	9.4	5.5	4.8	7.0	7.9	5.2	3.4	11	13	2.8	309	3.7
7	5.4	5.4	4.8	6.8	7.9	4.9	3.2	9.2	12	2.7	171	3.6
8	4.7	5.2	4.7	6.7	7.5	4.9	3.0	11	11	2.7	115	3.5
9	4.0	5.1	4.9	6.5	7.3	4.8	3.0	11	11	2.7	88	3.5
10	3.4	5.1	5.5	6.6	7.1	e4.8	3.1	11	9.5	2.8	112	3.8
11	3.0	5.1	5.5	e6.5	6.7	4.9	3.0	12	8.2	2.7	98	4.5
12	3.3	5.1	5.4	e6.4	6.7	4.8	2.9	16	8.4	2.7	114	4.3
13	4.4	5.3	5.3	6.3	6.5	4.8	2.9	14	6.9	2.8	138	4.4
14	4.6	5.2	5.2	6.2	6.8	4.9	3.1	13	5.2	2.8	228	4.3
15	4.5	5.2	5.1	6.2	6.3	4.7	4.5	14	5.0	2.7	170	4.3
16	5.0	5.1	5.1	5.7	6.4	4.6	5.6	17	4.7	3.4	64	4.2
17	17	5.2	5.1	5.6	6.5	4.6	4.5	15	4.0	4.5	20	4.1
18	50	5.0	5.1	5.5	6.5	4.6	4.4	18	3.6	3.8	14	4.1
19	176	4.9	5.2	5.5	6.6	4.3	4.4	14	3.7	3.5	11	4.1
20	154	4.8	5.4	5.6	6.6	4.3	4.3	15	3.0	3.3	8.0	4.0
21	13	4.8	8.5	5.7	6.5	4.3	8.1	12	2.4	3.5	38	4.5
22	8.2	4.8	38	6.1	6.2	4.3	4.7	12	2.4	3.8	6.2	21
23	7.3	4.9	19	6.1	6.0	3.9	3.2	14	2.5	3.7	7.1	26
24	6.8	4.8	11	6.5	5.9	3.6	2.2	16	2.6	3.5	7.0	27
25	6.7	4.8	10	6.8	5.9	3.5	1.9	13	2.4	5.6	6.7	11
26	6.6	4.7	16	7.4	5.9	3.5	1.9	16	2.2	56	6.5	19
27	6.5	4.6	21	8.2	5.8	3.5	3.1	22	2.2	112	6.6	293
28	6.2	5.2	13	8.0	6.0	3.5	4.6	20	2.4	205	6.3	92
29	6.1	5.1	11	7.8	5.9	3.5	5.9	17	2.4	292	7.4	3.8
30	6.1	5.2	9.9	7.8	---	3.3	6.5	14	3.8	216	6.3	3.0
31	5.9	---	9.6	7.8	---	3.2	---	13	---	151	5.0	---
TOTAL	573.9	154.7	269.4	211.7	197.2	138.7	114.6	418.7	208.5	1113.8	3706.1	577.5
MEAN	18.5	5.16	8.69	6.83	6.80	4.47	3.82	13.5	6.95	35.9	120	19.2
MAX	176	6.2	38	9.2	8.6	5.8	8.1	22	16	292	663	292
MIN	3.0	4.6	4.7	5.5	5.8	3.2	1.9	6.7	2.2	2.7	5.0	3.0
AC-FT	1140	307	534	420	391	275	227	830	414	2210	7350	1150

CAL YR 1999 TOTAL 3868.3 MEAN 10.6 MAX 415 MIN 2.6 AC-FT 7670
WTR YR 2000 TOTAL 7684.8 MEAN 21.0 MAX 663 MIN 1.9 AC-FT 15240

e Estimated

15226000 SOLOMON GULCH NEAR VALDEZ

LOCATION.--Lat 61°05′02″, long 146°18′13″, in NE¼ SE¼ SW¼ sec. 16, T. 9 S., R. 6 W. (Valdez A-7 SE quad), Hydrologic Unit 19020201, at bridge crossing at mouth and 3.8 mi southeast across Port Valdez from Valdez.

DRAINAGE AREA.--19.7 mi^2

PERIOD OF RECORD.--July to December 1948, October 1949 to September 1956, and September 1986 to current year.

GAGE.--Nonrecording gage. Elevation of gage is at sea level. July 9, 1948 to May 21, 1950, nonrecording gage, and May 22, 1950 to September 30, 1956, water-stage recorder at about present site and datum.

REMARKS.-- Records fair. Discharge data represent the flow at mouth which includes Solomon Gulch at top of falls (station 15225997), power plant tailrace (station 15225996), and all fish hatchery diversions. Water for power generation is diverted by a dam at Solomon Lake, 0.8 mi upstream. Water is diverted for the fish hatchery by a 24-in. penstock aeration system, and a 24-in. penstock line from the tailrace weir pool. An unaerated penstock and an 8-in. pipe for warm water supply are upstream. Additional water is diverted to the fish hatchery from Solomon Gulch bypass channel about 750 ft above gage, by means of a 12-in. diameter pipe. The fish hatchery discharges water directly into Port Valdez. Average daily diversion to fish hatchery for 2000 water year was 10.3 ft^3/s. Power generation began January 6, 1982.

COOPERATION.--Records of daily discharge diverted to the fish hatchery are furnished by Valdez Fisheries Development Association. Copper Valley Electric Association provides tables of hourly power output through the turbines and monthly storage values for Solomon Lake.

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	187	72	81	106	156	118	67	58	193	213	378	214
2	195	76	78	121	169	122	72	62	124	210	370	238
3	180	78	67	129	125	102	99	60	132	214	598	244
4	193	80	79	139	163	114	70	63	185	e213	871	239
5	199	74	79	139	150	105	76	92	194	e222	793	240
6	193	74	87	104	134	106	81	106	149	205	521	236
7	191	78	105	105	135	128	84	112	93	190	389	235
8	189	82	94	115	126	129	73	114	157	178	339	194
9	181	91	98	120	127	135	86	86	181	179	269	126
10	178	88	90	139	128	e123	65	105	182	191	284	128
11	107	89	78	e128	149	91	67	107	221	183	266	116
12	78	78	79	e148	139	87	70	107	198	183	276	137
13	81	68	90	97	124	102	64	100	162	191	310	187
14	69	68	108	95	128	72	63	101	218	190	398	152
15	50	77	113	92	126	108	64	155	182	176	339	110
16	68	87	113	107	120	166	65	202	196	183	233	175
17	80	77	114	106	110	101	66	243	202	208	189	176
18	203	85	121	120	110	95	63	252	212	213	192	110
19	380	82	112	102	105	108	68	242	189	196	186	113
20	358	85	88	98	104	95	72	237	109	196	188	163
21	219	83	94	95	100	70	101	232	178	216	253	190
22	213	74	202	99	117	66	112	194	215	214	252	201
23	207	71	132	94	154	88	96	239	172	203	254	208
24	201	71	96	92	130	122	78	149	173	198	250	198
25	116	66	96	125	129	106	61	224	211	166	238	180
26	66	69	109	141	128	102	49	226	218	261	244	192
27	74	69	128	138	128	100	50	228	216	326	246	489
28	71	74	103	168	106	94	49	223	218	385	252	306
29	69	83	100	152	106	92	51	220	196	506	234	218
30	89	85	101	144	---	79	66	197	200	420	250	209
31	66	---	109	138	---	64	---	199	---	355	252	---
TOTAL	4751	2334	3144	3696	3726	3190	2148	4935	5476	7184	10114	5924
MEAN	153	77.8	101	119	128	103	71.6	159	183	232	326	197
MAX	380	91	202	168	169	166	112	252	221	506	871	489
MIN	50	66	67	92	100	64	49	58	93	166	186	110
AC-FT	9420	4630	6240	7330	7390	6330	4260	9790	10860	14250	20060	11750

ADJUSTED FOR CHANGE IN STORAGE IN SOLOMON LAKE

MEAN	148	19.0	64.1	36.3	12.0	8.6	11.1	193	445	406	287	231
AC-FT	9120	1130	3940	2230	690	530	660	11890	26460	24950	17660	13750
CFSM	7.53	0.96	3.25	1.84	0.61	0.44	0.56	9.82	22.57	20.60	14.58	11.73
IN	8.69	1.08	3.75	2.12	0.66	0.51	0.63	11.33	25.21	23.77	16.83	13.10

e Estimated

15226000 SOLOMON GULCH NEAR VALDEZ--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2000, BY WATER YEAR (WY)#

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	184	104	98.1	98.5	92.1	79.5	71.6	155	180	266	299	350
MAX	310	140	116	138	130	120	106	213	229	373	462	501
(WY)	1987	1989	1987	1995	1987	1987	1998	1993	1990	1988	1993	1989
MIN	97.2	77.1	75.2	73.2	64.3	5.08	26.2	103	145	177	152	152
(WY)	1997	1993	1996	1997	1997	1991	1991	1992	1988	1991	1996	1996

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1986 - 2000#	
ANNUAL TOTAL	50505		55622			
ANNUAL MEAN	138		155		166	
ANNUAL MEAN	*121		*155		*166	
HIGHEST ANNUAL MEAN					197	1990
LOWEST ANNUAL MEAN					125	1996
HIGHEST DAILY MEAN	612	Sep 19	871	Aug 4	2270	Sep 24 1989
LOWEST DAILY MEAN	50	Oct 15	a49	Apr 26	1.0	Apr 12 1989
ANNUAL SEVEN-DAY MINIMUM	68	Apr 28	55	Apr 25	2.3	Mar 24 1991
INSTANTANEOUS PEAK FLOW					2270	Sep 24 1989
ANNUAL RUNOFF (AC-FT)	100200		112300		120100	
ANNUAL RUNOFF (AC-FT)	*88240		*113000		*120300	
ANNUAL RUNOFF (CFSM)	*6.15		*7.87		*8.43	
ANNUAL RUNOFF (IN)	*84.08		*107.68		*114.43	
10 PERCENT EXCEEDS	223		243		292	
50 PERCENT EXCEEDS	101		126		124	
90 PERCENT EXCEEDS	71		70		71	

PRIOR TO CONSTRUCTION OF SOLOMON GULCH HYDROELECTRIC PROJECT

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 1956, BY WATER YEAR (WY) #

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	124	58.9	18.3	13.3	10.4	8.82	10.9	102	370	385	322	260
MAX	304	131	35.6	20.9	12.2	11.1	18.3	224	544	514	442	574
(WY)	1953	1953	1950	1956	1954	1953	1953	1953	1953	1955	1956	1951
MIN	48.0	21.7	4.00	1.40	3.57	7.19	6.57	36.5	261	277	254	126
(WY)	1951	1951	1949	1951	1951	1951	1950	1955	1951	1950	1950	1955

SUMMARY STATISTICS		WATER YEARS 1948 - 1956 #	
ANNUAL MEAN	143		
HIGHEST ANNUAL MEAN	194		1953
LOWEST ANNUAL MEAN	126		1950
HIGHEST DAILY MEAN	1530	Sep 4	1951
LOWEST DAILY MEAN	.50	Dec 31	1950
ANNUAL SEVEN-DAY MINIMUM	1.0	Jan 10	1951
INSTANTANEOUS PEAK FLOW	b2420	Sep 4	1951
INSTANTANEOUS PEAK STAGE	c6.50	Sep 4	1951
INSTANTANEOUS LOW FLOW	d.00	Feb 20	1954
ANNUAL RUNOFF (AC-FT)	103900		
ANNUAL RUNOFF (CFSM)	7.28		
ANNUAL RUNOFF (INCHES)	98.89		
10 PERCENT EXCEEDS	396		
50 PERCENT EXCEEDS	49		
90 PERCENT EXCEEDS	8.0		

\# See Period of Record and Remarks. Values shown on this page are unadjusted for change in storage in Solomon Lake, unless otherwise noted
* Adjusted for change in storage in Solomon Lake
a Apr 26 and 28
b From rating curve extended above 620 ft^3/s
c Site and datum then in use
d No flow sometime during period Feb. 20 to Mar. 3, 1954, caused by temporary storage upstream

15236000 HOBO CREEK NEAR WHITTIER

LOCATION.--Lat 60°57′42″, long 148°14′19″, in SW¼ NE¼ NE¼ sec. 17, T. 10 N., R. 7 E. (Seward D-4 quad.), Hydrologic Unit 19020201, Chugach National Forest, on left bank 0.2 mi upstream from mouth at Hobo Bay and 19.5 mi northeast of Whittier.

DRAINAGE AREA.--5.53 mi^2.

PERIOD OF RECORD.--August to November 1913 (gage heights and discharge measurements only), October 1990 to September 2000 (discontinued). Monthly discharge for August 1913 published as "near Golden" in WSP 1372.

REVISED RECORDS.--WDR AK-97-1; 1991(M),1992(M), 1993(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 50 ft above sea level, from topographic map. Prior to September 7, 1990, at site 0.2 mi downstream at different datum.

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

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	158	17	13	20	20	13	16	65	153	163	117	37
2	389	16	12	18	17	12	15	66	158	157	407	32
3	106	15	13	17	27	22	15	63	155	151	358	34
4	143	15	14	16	23	26	18	67	164	144	248	33
5	293	32	14	15	24	18	18	125	182	164	135	31
6	118	54	12	14	67	15	17	104	182	147	99	37
7	91	43	11	e14	69	14	15	97	244	142	87	31
8	70	31	11	e13	37	12	15	104	391	147	81	31
9	57	25	10	13	26	e12	14	96	198	152	86	26
10	44	21	9.9	12	23	e11	14	97	162	121	71	51
11	43	19	9.4	11	20	11	13	93	149	103	69	54
12	55	20	9.2	e11	18	13	13	88	163	109	70	39
13	51	51	8.9	e11	17	15	13	103	157	130	69	148
14	37	44	8.7	e10	e15	15	16	107	165	128	76	68
15	31	38	8.2	10	14	17	19	143	165	118	69	42
16	47	31	8.0	e9.0	13	23	25	141	138	338	47	32
17	242	34	7.4	e8.0	12	28	28	109	135	406	44	28
18	411	30	7.8	e7.5	16	24	40	129	133	239	44	25
19	191	41	9.6	e7.0	50	20	72	129	262	158	42	22
20	82	47	12	e6.5	37	20	76	122	333	117	37	21
21	54	35	146	e6.5	27	20	112	101	179	218	31	29
22	40	28	414	e6.5	21	19	65	89	151	255	31	87
23	37	24	121	e6.5	18	17	41	125	152	181	31	123
24	30	20	43	e6.5	15	19	33	112	162	122	33	241
25	27	18	37	e6.5	e14	21	28	103	169	103	32	136
26	26	17	145	e7.0	13	19	26	107	154	98	31	102
27	24	15	134	e7.0	12	19	29	121	193	94	28	60
28	22	15	66	e7.5	12	15	38	120	210	299	25	43
29	21	14	39	7.7	13	19	43	129	184	877	79	33
30	19	13	29	8.1	---	22	49	137	174	246	88	27
31	18	---	24	19	---	19	---	131	---	116	49	---
TOTAL	2977	823	1407.1	331.8	690	550	936	3323	5517	5943	2714	1703
MEAN	96.0	27.4	45.4	10.7	23.8	17.7	31.2	107	184	192	87.5	56.8
MAX	411	54	414	20	69	28	112	143	391	877	407	241
MIN	18	13	7.4	6.5	12	11	13	63	133	94	25	21
AC-FT	5900	1630	2790	658	1370	1090	1860	6590	10940	11790	5380	3380
CFSM	17.4	4.96	8.21	1.94	4.30	3.21	5.64	19.4	33.3	34.7	15.8	10.3
IN.	20.03	5.54	9.47	2.23	4.64	3.70	6.30	22.35	37.11	39.98	18.26	11.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)#

MEAN	71.0	38.3	24.2	14.9	24.9	14.4	47.8	129	160	139	123	175
MAX	102	85.2	50.4	26.3	50.5	30.8	70.8	189	209	229	167	592
(WY)	1994	1993	1994	1995	1997	1998	1994	1995	1991	1995	1993	1995
MIN	36.0	9.12	7.42	8.61	7.50	5.74	22.2	83.1	81.8	70.9	71.3	49.9
(WY)	1998	1991	1991	1992	1999	1996	1999	1992	1992	1992	1994	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000#	
ANNUAL TOTAL	25770.2		26914.9			
ANNUAL MEAN	70.6		73.5		80.2	
HIGHEST ANNUAL MEAN					131	1995
LOWEST ANNUAL MEAN					53.1	1992
HIGHEST DAILY MEAN	620	Sep 2	877	Jul 29	2500	Sep 20 1995
LOWEST DAILY MEAN	6.3	Feb 28	a6.5	Jan 20	3.7	Mar 7 1996
ANNUAL SEVEN-DAY MINIMUM	6.6	Mar 4	6.6	Jan 19	3.8	Mar 3 1996
INSTANTANEOUS PEAK FLOW			1390	Jul 29	b2900	Sep 20 1995
INSTANTANEOUS PEAK STAGE			5.83	Jul 29	c7.90	Sep 20 1995
INSTANTANEOUS LOW FLOW					d3.7	Mar 6 1996
ANNUAL RUNOFF (AC-FT)	51120		53390		58070	
ANNUAL RUNOFF (CFSM)	12.8		13.3		14.5	
ANNUAL RUNOFF (INCHES)	173.35		181.06		196.95	
10 PERCENT EXCEEDS	173		163		180	
50 PERCENT EXCEEDS	37		34		42	
90 PERCENT EXCEEDS	8.0		12		8.0	

\# See Period of Record and Remarks
a From Jan. 20 to Jan. 25
b From rating curve extended above 230 ft^3/s on basis of slope-area measurement of peak flow
c From floodmarks
d Mar. 6 to Mar. 10, 1996 and Apr. 8, 1999, but may have been less during period of ice effect
e estimated

15237730 GROUSE CREEK AT GROUSE LAKE OUTLET NEAR SEWARD

LOCATION.--Lat 60°12′17″, long 149°22′11″, in SE¼ NW¼ sec. 1, T. 1 N., R. 1 W. (Seward A-7 NE quad), Kenai Peninsula Borough, Hydrologic Unit 19020202, on right bank, 200 ft downstream from Grouse Lake outlet, 0.2 mi upstream from Seward Highway, 7 mi north of Seward.

DRAINAGE AREA.--6.22 mi^2.

PERIOD OF RECORD.--June 1997 to present.

GAGE.--Water stage recorder and crest-stage gage. Elevation of gage is 200 ft above sea level from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Rain gage recorder at station. GOES satellite telemetry and phone modem at station.

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	28	13	e9.0	23	e8.0	e7.5	10	40	72	19	8.4	5.5
2	48	12	e9.0	20	e8.0	e6.5	10	42	73	18	10	5.2
3	40	11	e8.5	20	e9.0	e7.0	11	44	71	17	11	5.0
4	34	13	e8.5	18	e13	e8.0	11	46	71	16	13	5.0
5	37	13	e8.0	16	e12	e7.5	12	49	74	17	11	4.8
6	38	13	e7.5	16	e11	e7.0	11	49	74	15	10	4.8
7	33	13	e7.5	15	e10	e6.5	11	53	85	14	9.5	4.5
8	34	12	7.7	15	e12	5.9	11	56	92	13	9.0	4.3
9	33	12	7.6	13	e12	e5.5	10	56	80	13	8.5	4.1
10	30	11	e7.0	12	e12	e5.0	10	55	71	12	8.0	4.9
11	26	10	e7.0	11	e12	e5.0	10	54	61	12	7.7	5.4
12	24	11	e7.0	11	e12	6.2	11	55	57	11	7.3	4.9
13	21	14	e6.5	11	e11	6.2	12	61	54	11	7.1	7.6
14	19	14	e6.5	11	e10	6.5	13	64	51	11	7.1	7.8
15	18	13	e6.5	11	e10	7.6	14	58	48	11	6.7	6.7
16	18	13	e6.5	10	e9.5	8.3	16	58	45	12	6.4	6.1
17	17	12	6.5	9.5	e9.0	8.2	18	58	44	12	6.2	5.6
18	26	12	6.8	9.7	e9.0	8.1	21	58	42	11	6.1	4.9
19	36	14	7.2	9.6	e8.5	8.1	25	61	44	11	6.1	5.0
20	32	15	7.2	9.4	e9.0	8.0	34	61	43	10	6.2	4.9
21	28	14	12	8.7	e11	8.4	49	57	38	11	6.0	6.1
22	24	13	57	8.6	e10	8.6	50	54	35	11	5.9	7.7
23	22	13	56	8.8	e10	9.0	41	52	31	10	5.5	10
24	20	13	37	e9.0	e9.5	9.2	35	53	29	10	5.7	14
25	18	12	33	e10	e9.0	9.4	31	53	28	9.3	5.6	12
26	17	12	49	e8.5	e9.0	9.2	29	55	27	8.8	5.2	10
27	17	11	81	11	e8.5	8.8	30	60	26	8.2	5.9	9.3
28	16	11	56	11	e8.0	8.3	32	64	24	7.9	5.4	8.4
29	15	11	40	10	e7.5	9.6	33	69	23	9.0	6.2	7.7
30	14	9.8	31	8.4	---	11	36	73	21	9.2	6.7	7.6
31	14	---	28	e8.0	---	11	---	74	---	8.5	5.9	---
TOTAL	797	370.8	628.0	373.2	289.5	241.1	647	1742	1534	368.9	229.3	199.8
MEAN	25.7	12.4	20.3	12.0	9.98	7.78	21.6	56.2	51.1	11.9	7.40	6.66
MAX	48	15	81	23	13	11	50	74	92	19	13	14
MIN	14	9.8	6.5	8.0	7.5	5.0	10	40	21	7.9	5.2	4.1
AC-FT	1580	735	1250	740	574	478	1280	3460	3040	732	455	396
CFSM	4.13	1.99	3.26	1.94	1.60	1.25	3.47	9.03	8.22	1.91	1.19	1.07
IN.	4.77	2.22	3.76	2.23	1.73	1.44	3.87	10.42	9.17	2.21	1.37	1.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)#

MEAN	20.2	20.5	14.1	7.54	7.57	8.68	22.6	56.8	44.5	11.6	7.03	20.7
MAX	25.7	34.2	20.3	12.0	9.98	15.6	38.6	67.9	70.7	19.2	7.45	35.3
(WY)	2000	1998	2000	2000	2000	1998	1998	1998	1998	1998	1997	1997
MIN	11.8	12.4	8.89	5.23	3.34	2.69	7.65	46.3	12.6	6.11	6.04	6.66
(WY)	1998	2000	1999	1998	1999	1999	1999	1999	1997	1997	1999	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000#	
ANNUAL TOTAL	6296.0		7420.6			
ANNUAL MEAN	17.2		20.3		20.8	
HIGHEST ANNUAL MEAN					25.8	1998
LOWEST ANNUAL MEAN					16.3	1999
HIGHEST DAILY MEAN	81	Dec 27	92	Jun 8	168	Jun 8 1998
LOWEST DAILY MEAN	a2.1	Mar 9	4.1	Sep 9	a2.1	Mar 9 1999
ANNUAL SEVEN-DAY MINIMUM	2.2	Mar 4	4.6	Sep 4	2.2	Mar 4 1999
INSTANTANEOUS PEAK FLOW			b100	Jun 7	184	Jun 8 1998
INSTANTANEOUS PEAK STAGE			b6.30	Jun 7	6.96	Jun 8 1998
INSTANTANEOUS LOW FLOW			3.1	Sep 18	c1.5	Apr 7 1999
ANNUAL RUNOFF (AC-FT)	12490		14720		15050	
ANNUAL RUNOFF (CFSM)	2.77		3.26		3.34	
ANNUAL RUNOFF (INCHES)	37.65		44.38		45.37	
10 PERCENT EXCEEDS	56		54		56	
50 PERCENT EXCEEDS	8.4		11		11	
90 PERCENT EXCEEDS	3.2		6.2		5.0	

\# See Period of Record, partial year used in monthly statistics
a Mar. 9 and Mar. 10, 1999
b Jun. 7 and Jun.8
c From temporary blockage of channel upstream from gage
e Estimated

15238600 SPRUCE CREEK NEAR SEWARD

LOCATION.--Lat 60°04′10″, long 149°27′08″, in SW¼ SE¼ sec. 21, T. 1 S., R. 1 W. (Seward A-7 quad), Kenai Peninsula Borough, Hydrologic Unit 19020202, on left bank 0.7 mi upstream from mouth at Resurrection Bay and 2.4 mi south of Seward.

DRAINAGE AREA.--9.26 mi^2.

PERIOD OF RECORD.--September 1967 to September 1979, annual maximum, water years 1980-90. October 1990 to current year.

REVISED RECORDS.--WDR AK-76-1: 1966-67(M), 1970(M), 1972(M). WDR AK-77-1: 1969(M).

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 75 ft above sea level, from topographic map.

REMARKS.--Records good, except estimated daily discharges and discharges below 7.0 ft^3/s, which are poor. Precipitation gage at station.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 21, 1966, reached a stage of 10.1 ft, from floodmarks; discharge, 3,090 ft^3/s, by slope-area measurement.

EXTREMES FOR CURRENT YEAR.--Peak discharges above base of 1,000 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Aug 02	1200	*1,570	*6.64

No other peak greater than base discharge

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	218	e24	8.4	27	7.3	4.5	6.8	31	141	283	263	59
2	285	e19	8.1	24	12	4.1	6.3	32	148	278	697	54
3	134	e22	7.9	23	16	4.1	6.0	36	145	237	464	47
4	127	e24	7.8	21	13	5.2	6.3	47	157	247	322	44
5	171	e24	7.5	19	11	5.1	6.3	51	174	278	242	42
6	130	e25	6.8	18	13	4.5	5.9	48	184	271	188	40
7	99	e26	6.4	17	15	3.9	5.5	59	358	263	170	39
8	87	e22	5.9	16	15	3.5	5.3	59	389	253	183	38
9	78	e19	5.4	15	15	3.1	5.1	61	274	227	190	34
10	70	e19	5.2	14	15	2.7	4.9	63	226	197	166	37
11	63	e17	4.9	14	14	2.5	4.6	61	192	204	161	34
12	57	e14	4.6	e13	12	2.1	4.6	75	197	231	173	30
13	51	e15	4.4	13	11	2.2	5.1	83	196	241	162	158
14	45	e18	4.1	11	10	3.3	5.8	79	188	220	167	77
15	42	e18	3.8	11	9.3	4.6	7.6	73	189	259	146	49
16	40	e15	3.5	10	8.5	4.6	11	72	193	326	106	38
17	69	14	e3.4	9.6	7.8	5.0	14	75	205	263	99	32
18	171	14	3.2	9.3	7.3	5.1	17	89	187	221	87	28
19	133	15	3.1	9.1	7.6	5.3	27	91	251	209	75	24
20	97	17	3.3	8.7	11	5.6	39	88	294	195	71	23
21	80	17	97	8.4	9.3	6.2	51	79	223	269	65	35
22	68	16	256	8.2	8.6	6.2	37	79	208	238	64	57
23	59	14	91	8.2	8.0	7.3	27	79	210	193	61	60
24	52	13	48	12	7.4	7.0	22	77	211	173	54	99
25	47	12	49	10	6.7	6.6	20	79	200	163	48	76
26	43	11	144	9.5	6.0	6.1	19	91	214	177	47	63
27	41	11	132	9.0	5.5	5.5	19	107	257	182	50	49
28	37	10	69	e8.5	5.1	e5.5	21	119	270	177	51	38
29	34	9.3	45	8.0	4.9	5.8	24	135	266	308	107	32
30	e30	e9.0	35	e7.5	---	9.1	27	136	259	273	91	28
31	e28	---	32	e7.5	---	7.6	---	131	---	280	71	---
TOTAL	2686	503.3	1105.7	399.5	292.3	153.9	461.1	2385	6606	7336	4841	1464
MEAN	86.6	16.8	35.7	12.9	10.1	4.96	15.4	76.9	220	237	156	48.8
MAX	285	26	256	27	16	9.1	51	136	389	326	697	158
MIN	28	9.0	3.1	7.5	4.9	2.1	4.6	31	141	163	47	23
AC-FT	5330	998	2190	792	580	305	915	4730	13100	14550	9600	2900
CFSM	9.36	1.81	3.85	1.39	1.09	.54	1.66	8.31	23.8	25.6	16.9	5.27
IN.	10.79	2.02	4.44	1.60	1.17	.62	1.85	9.58	26.54	29.47	19.45	5.88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000, BY WATER YEAR (WY)#

MEAN	87.3	36.2	15.2	8.97	9.81	3.86	12.9	73.6	198	190	147	171
MAX	333	129	51.1	37.8	46.6	15.3	35.6	135	298	371	323	372
(WY)	1970	1977	1970	1977	1994	1970	1969	1993	1969	1977	1977	1995
MIN	17.0	9.40	3.52	.65	.000	.000	.12	30.6	116	104	56.9	48.8
(WY)	1997	1974	1997	1974	1972	1971	1972	1971	1972	1997	1969	2000

See Period of Record, partial year used in monthly statistics
e Estimated

15238600 SPRUCE CREEK NEAR SEWARD--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000#	
ANNUAL TOTAL	23865.60		28233.8			
ANNUAL MEAN	65.4		77.1		79.0	
HIGHEST ANNUAL MEAN					123	1977
LOWEST ANNUAL MEAN					50.6	1996
HIGHEST DAILY MEAN	588	Sep 18	697	Aug 2	1650	Oct 11 1969
LOWEST DAILY MEAN	a.00	Feb 22	2.1	Mar 12	b.00	Mar 1 1969
ANNUAL SEVEN-DAY MINIMUM	.00	Feb 22	2.8	Mar 8	.00	Mar 1 1969
INSTANTANEOUS PEAK FLOW			1570	Aug 2	c13600	Oct 11 1986
INSTANTANEOUS PEAK STAGE			6.64	Aug 2	d13.96	Oct 11 1986
INSTANTANEOUS LOW FLOW			f2.0	Mar 12		
ANNUAL RUNOFF (AC-FT)	47340		56000		57270	
ANNUAL RUNOFF (CFSM)	7.06		8.33		8.54	
ANNUAL RUNOFF (INCHES)	95.87		113.42		115.98	
10 PERCENT EXCEEDS	162		224		207	
50 PERCENT EXCEEDS	29		34		34	
90 PERCENT EXCEEDS	.10		5.3		1.0	

\# See Period of Record, partial year used in monthly statistics
a From Feb. 22 to Mar. 22, and Apr. 9 to Apr. 13
b No flow many days in water years 1969, 1971-76, 1992, 1996, and 1999
c Slope-area measurement of the release of water temporarily stored behind a debris-avalanche dam. Inflow into the ponded area was 5,420 ft^3/s, from a slope-area measurement made about 0.3 mi upstream at a site with a drainage area of 8.98 mi^2
d From floodmarks
f Mar. 12 and Mar. 13

15238648 UPPER NUKA RIVER NEAR PARK BOUNDARY NEAR HOMER

LOCATION.--Lat 59°41′04″, long 150°42′12″ (Seldovia C-2 quad), Kenai Peninsula Borough, Hydrologic Unit 19020202, on left bank, 0.4 mi downstream from terminus of Nuka Glacier, 4.9 mi southeast of Bradley Lake, and 29 mi east of Homer, Alaska.

DRAINAGE AREA.--Indeterminate. Prior to July 29, 1990, drainage area was about 3 mi^2 and varied according to position of glacier terminus.

PERIOD OF RECORD.--Occasional low-flow measurements, water years 1980-81, prior to shift in glacier terminus; September 1984 to current year. Records prior to July 29, 1990, are not equivalent. Published as "Upper Nuka River near Homer" prior to October 1989. Low-flow records not equivalent prior to November 1987 because most low-flow measurements were made at site 0.5 mi downstream.

REVISED RECORDS.--WDR AK-89-1: 1985 (M), 1986-88.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,300 ft above sea level, from topographic map.

REMARKS.--Records fair except estimated daily discharges, which are poor. Water is diverted, 300 ft upstream from gage, into Bradley River drainage since July 29, 1990. Precipitation gage and air temperature recorder at station; daily values of precipitation and air temperature are available from the computer files of the Alaska District. GOES satellite telemetry at station.

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	6.6	e3.4	e.20	e.00	e.00	e.00	.00	e.00	e1.6	7.1	e7.4	7.7
2	8.0	e3.2	e.10	e.00	e.00	e.00	.00	e.00	e2.0	7.1	e7.4	7.6
3	6.0	e3.0	e.10	e.00	e.00	e.00	.00	e.00	e2.4	6.9	e7.4	7.4
4	5.9	e2.9	e.10	e.00	e.00	e.00	.00	e.00	e3.0	7.0	e7.4	7.4
5	6.1	e2.9	e.00	e.00	e.00	e.00	.00	e.00	e4.0	7.2	e7.4	7.4
6	5.7	e2.8	e.00	e.00	e.00	e.00	.00	e.00	e5.0	7.1	e7.4	7.4
7	5.6	e2.8	e.00	e.00	e.00	e.00	.00	e.00	e5.0	7.0	e7.4	7.3
8	5.4	e2.8	e.00	e.00	e.00	e.00	.00	e.00	e6.0	7.1	7.7	7.3
9	5.3	e2.7	e.00	e.00	e.00	e.00	.00	e.00	e6.0	7.0	7.7	7.1
10	5.0	e2.7	e.00	e.00	e.00	.00	.00	e.00	e5.0	6.8	7.7	7.3
11	4.7	e2.7	e.00	e.00	e.00	.00	.00	e.00	e5.0	6.9	7.8	7.3
12	4.5	e2.7	e.00	e.00	e.00	.00	.00	e.10	e5.0	7.1	9.1	7.0
13	4.3	e2.6	e.00	e.00	e.00	.00	.00	e.10	e5.0	7.2	9.8	7.6
14	e4.0	e2.6	e.00	e.00	e.00	.00	.00	e.10	e5.0	7.1	17	7.4
15	e3.8	e2.6	e.00	e.00	e.00	.00	.00	e.10	e5.0	7.2	13	7.1
16	e3.6	e2.6	e.00	e.00	e.00	.00	.00	e.10	e5.0	7.5	8.5	7.0
17	6.6	e2.6	e.00	e.00	e.00	.00	.00	e.20	e5.0	7.4	8.3	6.8
18	7.4	e2.6	e.00	e.00	e.00	.00	.00	e.20	e5.0	7.2	8.2	6.8
19	7.0	e2.5	e.00	e.00	e.00	.00	.00	e.20	e5.0	7.1	8.1	6.6
20	6.5	e2.4	e.00	e.00	e.00	.00	.00	e.20	e5.0	7.1	7.9	6.8
21	6.2	e1.6	e.50	e.00	e.00	.00	.00	e.30	e5.0	7.3	7.9	7.1
22	5.4	e1.2	e5.0	e.00	e.00	.00	.00	e.30	e5.0	7.2	7.8	7.3
23	e4.6	e.90	e4.0	e.00	e.00	.00	.00	e.40	e5.0	7.1	7.7	7.3
24	e4.4	e.70	e3.0	e.00	e.00	.00	.00	e.40	e6.0	7.1	7.6	7.6
25	e4.2	e.50	e4.0	e.00	e.00	.00	.00	e.50	e6.0	7.1	7.7	7.8
26	e4.2	e.40	e5.0	e.00	e.00	.00	e.00	e.60	e7.0	7.0	7.6	7.3
27	e4.0	e.40	e2.0	e.00	e.00	.00	e.00	e.70	e7.0	7.1	7.8	6.9
28	e4.0	e.30	e.90	e.00	e.00	.00	e.00	e.80	7.4	6.9	7.8	6.8
29	e3.8	e.20	e.40	e.00	e.00	.00	e.00	e.90	6.7	6.7	9.5	7.6
30	e3.8	e.20	e.20	e.00	---	.00	e.00	e1.1	6.7	7.5	8.9	6.6
31	e3.6	---	e.10	e.00	---	.00	---	e1.4	---	7.3	7.6	---
TOTAL	160.2	61.50	25.60	0.00	0.00	0.00	0.00	8.70	151.8	220.4	260.5	216.6
MEAN	5.17	2.05	.83	.000	.000	.000	.000	.28	5.06	7.11	8.40	7.22
MAX	8.0	3.4	5.0	.00	.00	.00	.00	1.4	7.4	7.5	17	7.8
MIN	3.6	.20	.00	.00	.00	.00	.00	.00	1.6	6.7	7.4	6.6
AC-FT	318	122	51	.00	.00	.00	.00	17	301	437	517	430

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)#

MEAN	2.69	1.31	.097	.032	.15	.000	.003	.76	30.0	39.8	18.8	10.9
MAX	5.29	6.45	.83	.16	1.56	.000	.015	2.73	209	272	53.1	31.9
(WY)	1999	1998	2000	1995	1994	1991	1991	1996	1999	1999	1998	1998
MIN	.000	.000	.000	.000	.000	.000	.000	.000	1.06	2.96	.97	1.72
(WY)	1992	1992	1991	1991	1991	1991	1992	1998	1992	1991	1991	1991

See Period of Record and Remarks. Not adjusted to account for changes in drainage area
e Estimated

15238648 UPPER NUKA RIVER NEAR PARK BOUNDARY NEAR HOMER--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000#	
ANNUAL TOTAL	16648.70		1105.30			
ANNUAL MEAN	45.6		3.02		8.75	
HIGHEST ANNUAL MEAN					a45.6	1999
LOWEST ANNUAL MEAN					1.09	1991
HIGHEST DAILY MEAN	335	Jul 4	17	Aug 14	335	Jul 4 1999
LOWEST DAILY MEAN	b.00	Jan 1	c.00	Dec 5	d.00	Nov 3 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Dec 5	.00	Nov 3 1990
INSTANTANEOUS PEAK FLOW			20	Aug 14	451	Jul 4 1999
INSTANTANEOUS PEAK STAGE			2.23	Aug 14	4.30	Jul 4 1999
ANNUAL RUNOFF (AC-FT)	33020		2190		6340	
10 PERCENT EXCEEDS	252		7.4		11	
50 PERCENT EXCEEDS	1.9		1.0		.10	
90 PERCENT EXCEEDS	.00		.00		.00	

PRIOR TO REGULATION AND DIVERSION OF NUKA RIVER

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 1989, BY WATER YEAR (WY)#

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	47.6	7.01	2.83	1.48	.49	.21	.22	23.8	34.7	141	180	131
MAX	72.0	24.9	9.00	5.79	2.24	.87	.72	117	81.2	307	432	321
(WY)	1987	1987	1987	1985	1985	1985	1985	1986	1989	1989	1989	1989
MIN	3.84	.024	.000	.000	.000	.000	.000	.016	.76	6.41	12.1	7.08
(WY)	1989	1989	1989	1989	1988	1988	1988	1987	1987	1988	1986	1988

SUMMARY STATISTICS	WATER YEARS 1985 - 1989#	
ANNUAL MEAN	47.9	
HIGHEST ANNUAL MEAN	96.2	1989
LOWEST ANNUAL MEAN	8.60	1988
HIGHEST DAILY MEAN	1240	Aug 25 1989
LOWEST DAILY MEAN	f.00	May 6 1987
ANNUAL SEVEN-DAY MINIMUM	.00	May 6 1987
INSTANTANEOUS PEAK FLOW	g1630	Aug 25 1989
INSTANTANEOUS PEAK STAGE	5.47	Aug 25 1989
ANNUAL RUNOFF (AC-FT)	34700	
10 PERCENT EXCEEDS	183	
50 PERCENT EXCEEDS	1.1	
90 PERCENT EXCEEDS	.00	

\# See Period of Record and Remarks. Not adjusted to account for changes in drainage area
a Diversion dam failed Jun. 17, 1999; repaired Sep. 25, 1999
b From Jan. 1 to Apr. 29 and Dec. 5 to 20.
c From Dec. 5 - 20, and Jan.1 to May 11
d No flow most days during winter
f No flow many days each year since 1987 during winter through June. See Period of Record for remark on low-flow records.
g From rating curve extended above 380 ft^3/s

15238978 BATTLE CREEK DIVERSION ABOVE BRADLEY LAKE NEAR HOMER

LOCATION.--Lat 59°44′45″, long 150°50′22″, in SW¼ NE¼ sec. 17, T. 5 S., R. 9 W. (Seldovia C-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on right bank 0.6 mi upstream from Bradley Lake and 25 mi east of Homer.

DRAINAGE AREA.--0.95 mi^2.

PERIOD OF RECORD.--August 1992 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,350 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. The entire flow of Battle Creek at the station has been diverted into Bradley Lake since October 1991.

EXTREMES FOR WATER YEARS 1993-2000.-- Peak discharges greater than base discharge of 50 ft^3/s and maximums (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Aug. 19, 1993	0430	87*	6.71*	Jun. 07, 1998	2330	77	6.57
Oct. 09, 1993	0730	60	6.29	Sep.0 1, 1998	1200	71	6.47
Sep. 20, 1994	0500	66*	6.39*	Sep. 19, 1998	1200	91*	6.77
Sep. 20, 1995	0530	134*	7.32	Jun. 09, 1999	1600	52	6.11
Sep. 07, 1997	1030	61*	6.31	Sep. 17, 1999	1930	91*	6.76*
Nov. 09, 1997	0830	55	6.20	Oct. 01, 1999	2230	77*	6.55*
				Aug. 02, 2000	1130	64	6.33

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	13	.17	.00	.00	.00	.00	.00	e.00	2.4	17	18	1.6
2	32	.09	.00	.00	.00	.00	.00	e.00	2.8	26	41	1.4
3	9.6	.01	.00	.00	.00	.00	.00	e.00	2.8	22	25	.99
4	5.9	.00	.00	.00	.00	.00	.00	e.00	2.8	16	17	.82
5	6.3	.00	.00	.00	.00	.00	.00	e.00	3.5	23	11	.74
6	4.5	.00	.00	.00	.00	.00	.00	e.00	5.5	15	7.2	.90
7	3.7	.00	.00	.00	.00	.00	.00	e.00	16	13	5.4	.85
8	3.2	.00	.00	.00	.00	.00	.00	e.00	16	17	5.1	.70
9	2.5	.00	.00	.00	.00	.00	.00	e.00	22	16	4.4	.52
10	1.9	.00	.00	.00	.00	.00	.00	e.00	20	11	3.8	.92
11	1.4	.00	.00	.00	.00	.00	.00	e.00	19	11	3.3	1.3
12	1.5	.00	.00	.00	.00	.00	.00	e.05	18	15	3.5	.95
13	1.2	.00	.00	.00	.00	.00	.00	e.05	17	19	4.3	8.1
14	.79	.00	.00	.00	.00	.00	.00	e.05	17	28	5.7	3.6
15	.56	.00	.00	.00	.00	.00	.00	e.05	17	29	3.7	2.0
16	.69	.00	.00	.00	.00	.00	.00	e.05	15	36	2.5	1.6
17	6.8	.00	.00	.00	.00	.00	e.00	e.10	12	16	2.3	1.2
18	21	.00	.00	.00	.00	.00	e.00	e.10	11	9.7	2.3	.93
19	5.7	.00	.00	.00	.00	.00	.00	e.15	19	7.2	2.5	.74
20	4.1	.00	.00	.00	.00	.00	.00	e.15	19	6.5	2.4	.65
21	2.8	.00	e2.0	.00	.00	.00	.00	e.20	13	7.7	1.8	1.3
22	1.9	.00	e16	.00	.00	.00	.00	e.25	10	6.7	1.6	1.9
23	1.4	.00	e12	.00	.00	.00	.00	e.30	11	7.9	1.2	1.8
24	.94	.00	e4.0	.00	.00	.00	.00	e.40	16	8.7	1.1	3.2
25	.90	.00	.49	.00	.00	.00	.00	.62	22	6.4	1.0	2.2
26	.47	.00	1.0	.00	.00	.00	.00	.72	23	5.8	.98	1.9
27	e.34	.00	1.4	.00	.00	.00	e.00	.95	24	6.1	1.5	1.6
28	e.30	.00	.58	.00	.00	.00	e.00	1.3	21	5.2	1.5	1.1
29	e.26	.00	.28	.00	.00	.00	e.00	1.7	18	12	3.0	.77
30	e.23	.00	.14	.00	---	.00	e.00	1.8	17	21	3.1	.76
31	e.21	---	.05	.00	---	.00	---	2.1	---	16	1.8	---
TOTAL	136.09	0.27	37.94	0.00	0.00	0.00	0.00	11.09	432.8	456.9	188.98	47.04
MEAN	4.39	.009	1.22	.000	.000	.000	.000	.36	14.4	14.7	6.10	1.57
MAX	32	.17	16	.00	.00	.00	.00	2.1	24	36	41	8.1
MIN	.21	.00	.00	.00	.00	.00	.00	.00	2.4	5.2	.98	.52
AC-FT	270	.5	75	.00	.00	.00	.00	22	858	906	375	93
CFSM	4.62	.01	1.29	.00	.00	.00	.00	.38	15.2	15.5	6.42	1.65
IN.	5.33	.01	1.49	.00	.00	.00	.00	.43	16.95	17.89	7.40	1.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)#

MEAN	2.57	1.06	.18	.038	.14	.003	.16	2.75	14.0	10.5	5.04	6.88
MAX	5.84	2.83	1.22	.19	.48	.015	.67	7.67	23.5	18.2	11.6	16.9
(WY)	1994	1998	2000	1995	1994	1998	1997	1993	1998	1998	1993	1995
MIN	.21	.009	.000	.000	.000	.000	.000	.21	5.55	1.83	.094	.91
(WY)	1997	2000	1996	1996	1996	1994	1999	1999	1996	1996	1996	1992

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

15238978 BATTLE CREEK DIVERSION ABOVE BRADLEY LAKE NEAR HOMER--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000#	
ANNUAL TOTAL	1380.20		1311.11			
ANNUAL MEAN	3.78		3.58		3.68	
HIGHEST ANNUAL MEAN					5.34	1998
LOWEST ANNUAL MEAN					1.23	1996
HIGHEST DAILY MEAN	49	Sep 17	41	Aug 2	104	Sep 20 1995
LOWEST DAILY MEAN	a.00	Jan 1	a.00	Nov 4	b.00	Jun 3 1992
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Nov 4	.00	Jan 11 1993
INSTANTANEOUS PEAK FLOW			77	Oct 1	134	Sep 20 1995
INSTANTANEOUS PEAK STAGE			6.55	Oct 1	7.32	Sep 20 1995
INSTANTANEOUS PEAK STAGE					c8.09	May 20 1999
ANNUAL RUNOFF (AC-FT)	2740		2600		2660	
ANNUAL RUNOFF (CFSM)	3.98		3.77		3.87	
ANNUAL RUNOFF (INCHES)	54.05		51.34		52.56	
10 PERCENT EXCEEDS	13		16		12	
50 PERCENT EXCEEDS	.05		.05		.32	
90 PERCENT EXCEEDS	.00		.00		.00	

See Period of Record and Remarks, partial years used in monthly statistics
a No flow many days during the winter
b No flow many days most winters, and Jun. 3, 1992 (observation), Aug. 4, Aug. 5, Aug. 9, and Aug. 14 to Sept. 11, 1996
c Backwater from ice jam

15238990 UPPER BRADLEY RIVER NEAR NUKA GLACIER NEAR HOMER

LOCATION.--Lat 59°42′02″, long 150°42′09″, (Seldovia C-2 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on left bank 1.0 mi downstream from Nuka Glacier terminus, 2.7 mi upstream from confluence with Kachemak Creek, 3.7 mi southeast of Bradley Lake, and 29 mi east of Homer. Prior to July 22, 1991 at site 0.2 mi downstream.

DRAINAGE AREA.--Indeterminate. Prior to July 29, 1990, drainage area was about 10 mi^2 and varied according to position of glacier terminus.

PERIOD OF RECORD.--October 1979 to current year. Prior to October 1989, published as Upper Bradley River near Homer.

REVISED RECORDS.--WDR AK-86-1: 1980-85, WRD AK-96-1: 1991-95

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,250 ft above sea level, from topographic map. Prior to July 22, 1991 at site 0.2 mi downstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flow diverted from Upper Nuka River into Upper Bradley River drainage since July 29, 1990. Air temperature recorder at station, daily values of air temperature available from the computer files of the Alaska District. GOES satellite telemetry at station.

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	e120	e12	e.00	e.50	e.00	e.00	e.00	e.00	e3.8	313	453	288
2	e360	e10	e.00	e.00	e.00	e.00	e.00	e.00	e4.6	311	955	206
3	e300	e8.5	e.00	e.00	e.00	e.00	e.00	e.10	e5.5	300	1010	164
4	e280	e6.5	e.00	e.00	e.00	e.00	e.00	e.10	e7.0	289	675	135
5	e200	e5.5	e.00	e.00	e.00	e.00	e.00	e.10	e8.0	332	492	112
6	e100	e4.6	e.00	e.00	e.00	e.00	e.00	e.10	e10	298	376	135
7	e130	e3.8	e.00	e.00	e.00	e.00	e.00	e.10	e12	291	332	137
8	166	e3.2	e.00	e.00	e.00	e.00	e.00	e.10	e15	319	362	116
9	133	e2.7	e.00	e.00	e.00	e.00	e.00	e.10	e19	296	371	80
10	119	e2.2	e.00	e.00	e.00	e.00	e.00	e.10	e24	279	362	103
11	110	e1.8	e.00	e.00	e.00	e.00	e.00	e.20	e30	314	368	95
12	102	e1.5	e.00	e.00	e.00	e.00	e.00	e.20	e40	394	436	81
13	91	e1.3	e.00	e.00	e.00	e.00	e.00	e.20	e50	445	457	233
14	82	e1.1	e.00	e.00	e.00	e.00	e.00	e.20	e65	444	552	227
15	73	e.95	e.00	e.00	e.00	e.00	e.00	e.30	e80	483	426	121
16	69	e.80	e.00	e.00	e.00	e.00	e.00	e.30	e110	597	330	103
17	148	e.80	e.00	e.00	e.00	e.00	e.00	e.40	e140	535	273	96
18	533	e.80	e.00	e.00	e.00	e.00	e.00	e.40	174	403	278	68
19	323	e.80	e.00	e.00	e.00	e.00	e.00	e.50	222	349	258	64
20	204	e.70	e.00	e.00	e.00	e.00	e.00	e.50	200	329	226	77
21	147	e.60	e19	e.00	e.00	e.00	e.00	e.60	155	381	201	195
22	119	e.40	e160	e.00	e.00	e.00	e.00	e.70	145	356	217	222
23	e95	e.40	e120	e.00	e.00	e.00	e.00	e.80	154	319	146	178
24	e75	e.20	e38	e.00	e.00	e.00	e.00	e.90	174	317	126	323
25	e60	e.20	e80	e.00	e.00	e.00	e.00	e1.1	200	283	136	349
26	e48	e.20	e90	e.00	e.00	e.00	e.00	e1.3	222	300	131	362
27	e38	e.10	e65	e.00	e.00	e.00	e.00	e1.5	245	296	168	234
28	e30	e.10	e20	e.00	e.00	e.00	e.00	e1.9	249	252	197	120
29	e24	e.10	e6.0	e.00	e.00	e.00	e.00	e2.2	256	353	348	83
30	e19	e.00	e2.0	e.00	---	e.00	e.00	e2.6	285	633	376	55
31	e15	---	e1.0	e.00	---	e.00	---	e3.2	---	587	286	---
TOTAL	4313	71.85	601.00	0.50	0.00	0.00	0.00	20.80	3304.9	11398	11324	4762
MEAN	139	2.39	19.4	.016	.000	.000	.000	.67	110	368	365	159
MAX	533	12	160	.50	.00	.00	.00	3.2	285	633	1010	362
MIN	15	.00	.00	.00	.00	.00	.00	.00	3.8	252	126	55
AC-FT	8550	143	1190	1.0	.00	.00	.00	41	6560	22610	22460	9450

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)#

MEAN	73.1	13.8	2.43	.14	.43	.000	.086	21.9	205	371	429	360
MAX	213	38.4	19.4	1.33	4.35	.000	.55	93.6	326	453	597	851
(WY)	1994	1998	2000	1994	1994	1991	1993	1993	1992	1994	1993	1995
MIN	12.9	2.39	.000	.000	.000	.000	.000	.008	94.4	106	293	117
(WY)	1997	2000	1995	1991	1991	1991	1992	1998	1999	1999	1998	1992

\# See Period of Record and Remarks. Not adjusted to account for changes in drainage area
e Estimated

15238990 UPPER BRADLEY RIVER NEAR NUKA GLACIER NEAR HOMER--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000#	
ANNUAL TOTAL	38639.85		35796.05			
ANNUAL MEAN	106		97.8		124	
HIGHEST ANNUAL MEAN					170	1995
LOWEST ANNUAL MEAN					91.1	1998
HIGHEST DAILY MEAN	a2000	Sep 17	1010	Aug 3	b3600	Sep 21 1995
LOWEST DAILY MEAN	c.00	Jan 1	d.00	Nov 30	f.00	Dec 5 1990
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Nov 30	.00	Dec 5 1990
INSTANTANEOUS PEAK FLOW			1970	Aug 3	g4100	Sep 20 1995
INSTANTANEOUS PEAK STAGE			h13.78	Aug 3	h15.10	Sep 20 1995
ANNUAL RUNOFF (AC-FT)	76640		71000		89740	
10 PERCENT EXCEEDS	311		329		401	
50 PERCENT EXCEEDS	5.0		1.1		4.5	
90 PERCENT EXCEEDS	.00		.00		.00	

PRIOR TO DIVERSION FROM UPPER NUKA RIVER

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1989, BY WATER YEAR (WY) #

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	106	22.8	10.2	4.67	1.74	1.35	1.29	38.3	161	290	349	292
MAX	279	75.7	54.6	15.1	4.82	6.50	4.67	92.0	270	458	595	673
(WY)	1980	1980	1987	1981	1981	1984	1981	1986	1988	1981	1986	1982
MIN	26.3	2.60	.50	.000	.000	.000	.000	.33	102	149	133	63.1
(WY)	1986	1988	1989	1989	1989	1989	1986	1987	1985	1985	1985	1983

SUMMARY STATISTICS	WATER YEARS 1980 - 1989 #	
ANNUAL MEAN	107	
HIGHEST ANNUAL MEAN	154	1986
LOWEST ANNUAL MEAN	49.6	1985
HIGHEST DAILY MEAN	1890	Aug 27 1986
LOWEST DAILY MEAN	f.00	Dec 25 1979
ANNUAL SEVEN-DAY MINIMUM	.00	Dec 25 1979
INSTANTANEOUS PEAK FLOW	i2530	Oct 10 1986
INSTANTANEOUS PEAK STAGE	j9.86	Oct 10 1986
ANNUAL RUNOFF (AC-FT)	77650	
10 PERCENT EXCEEDS	338	
50 PERCENT EXCEEDS	15	
90 PERCENT EXCEEDS	.50	

See Period of Record and Remarks. Not adjusted to account for changes in drainage area
a Estimated discharge, but may have been higher during period of no gage-height record, Aug. 26 to Sep. 30.
b Estimated discharge, but may have been higher during period of no gage-height record, Sep. 21 to Sep. 22, 1995
c From Jan. 1 to Apr. 29 and Nov. 30 to Dec. 20
d From Nov. 30 to Dec. 20 and Jan. 2 to May 2
f No flow in winter most years
g From rating curve extended above 400 ft^3/s on basis of slope-area measurement of peak flow
h From floodmarks
i From rating curve extended above 440 ft^3/s on basis of slope-area measurement of peak flow
j Site and datum then in use

15239000 BRADLEY RIVER NEAR HOMER

LOCATION.--Lat 59°45′30″, long 150°51′02″, in SW¼ SE¼ NW¼ sec. 8, T. 5 S., R. 9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, about 1,300 ft downstream from Bradley Lake dam, 3.3 mi upstream from confluence with Middle Fork Bradley River, and 26 mi northeast of Homer.

DRAINAGE AREA.--About 65 mi^2 since July and August 1990, when additional water was diverted into the basin. Prior drainage area was about 54 mi^2.

PERIOD OF RECORD.--July to August 1955, October 1957 to September 1990 (discharge). October 1991 to current year (beginning month reservoir contents and monthly discharges).

REVISED RECORDS.--WSP 2136: 1960(M), 1965. WDR AK-77-1: 1958, 1961, 1963(M), 1966, 1967, 1970, 1972, 1974, 1976.

GAGE.--Nonrecording gage. Datum of gage is 1,054.16 ft above sea level (levels of dam-site survey for Alaska Power Authority). Totalizing flow meters on penstocks to two turbines in Bradley powerhouse. Lake-level sensor. July 13-22, 1955, non-recording lake gage at site 1 mi upstream and July 23 to August 5, 1955, at site 3 mi upstream at different datum. Prior to November 4, 1980, and April 29 to October 5, 1986, water-stage recorder at site 500 ft upstream at different datum and November 4, 1980 to April 28, 1986, water-stage recorder 1,300 ft upstream at different datum. April 29, 1986 to September 30, 1989, water-stage recorder at present site and datum.

REMARKS.--Reservoir is formed by an earthen dam with impermeable core and concrete face at the outlet of Bradley Lake. Construction began November 1986 and was completed in April 1991. Total and usable capacities below the spillway crest of 1,180 ft are 547,500 and 284,200 acre-ft, respectively. Reservoir is used for power. Discharge released through turbines is computed using totalizing flow meters; release flow enters Kachemak Bay and is not returned to stream. Spill, dam seepage, and fish-water bypass are measured at Bradley River below Dam (15239001) gage. Reservoir capacity table furnished by the Alaska Energy Authority.

COOPERATION.--Reservoir elevations and power generation discharge provided by the Homer Electric Association, for the Alaska Energy Authority.

AVERAGE DISCHARGE.--41 years (water years 1958 to 1989, and 1992 to current year), 450 ft^3/s, 326,000 acre-ft/yr. The inflow diversions from Middle Fork Bradley River and Battle Creek into the reservoir are excluded. Flow diverted from Upper Nuka River into Upper Bradley since July 29, 1990 was not measurable and is included in the following tabulations.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 549,400 acre-ft, October 1, 1991, elevation 1180.5 ft; minimum contents observed, 246,600 acre-ft, April 23, 1997, elevation 1069.3 ft. Maximum computed discharge, 8,800 ft^3/s, October 10, 1986, gage height, 10.90 ft from floodmarks, site and datum then in use. Maximum discharge, September 21-22, 1995 was probably higher, as indicated by extremes for period of record on these dates for other sites in the Bradley River basin; minimum daily, about 9.0 ft^3/s, December 7, 1986, result of power tunnel construction at dam site.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed, 471,300 acre-ft, October 15, elevation 1159.1 ft; minimum contents observed, 294,000 acre-ft, June 6, elevation 1096.9 ft.

BEGINNING OF MONTH RESERVOIR ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, IN ACRE FEET
WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
Oct 1	1,156.5	462,100	--
Nov 1	1,156.0	460,300	-1,800
Dec 1	1,147.2	430,400	-29,900
Jan 1	1,139.6	407,000	-23,400
Feb 1	1,131.5	382,000	-25,000
Mar 1	1,120.9	351,800	-30,200
Apr 1	1,111.0	327,100	-24,700
May 1	1,101.5	303,400	-23,700
Jun 1	1,097.2	294,600	-8,800
Jul 1	1,110.2	325,100	+30,500
Aug 1	1,128.7	373,400	+48,300
Sep 1	1,136.7	398,000	+24,600
Oct 1	1,135.1	393,100	-4,900
		CAL YR 1999	-8,000
		WTR YR 2000	-69,000

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

MONTH	CHANGE IN CONTENTS	POWER GENERATION	BRADLEY RIVER BELOW DAM 15239001	MIDDLE FORK BRADLEY RIVER 15239050	BATTLE CREEK DIVERSION 15238978	BRADLEY RIVER 15239000
OCT	-29	482	15.1	51.2	4.39	412
NOV	-502	569	32.2	13.9	0.01	84
DEC	-381	536	40.5	17.3	1.22	177
JAN	-407	435	40.5	5.02	0.00	64
FEB	-525	541	38.3	3.85	0.00	51
MAR	-402	421	38.1	2.94	0.00	50
APR	-398	359	39.2	3.20	0.00	18
MAY	-143	464	14.7	8.89	0.36	322

MONTH	CHANGE IN CONTENTS	POWER GENERATION	BRADLEY RIVER BELOW DAM 15239001	MIDDLE FORK BRADLEY RIVER 15239050	BATTLE CREEK DIVERSION 15238978	BRADLEY RIVER 15239000
JUN	+513	598	3.14	80.8	14.4	1,020
JUL	+786	740	23.6	177	14.7	1,360
AUG	+400	820	77.2	128	6.1	1,160
SEP	-82	538	78.2	53.2	1.57	480
CAL YR 1999	-14	503	35.8	54.9	3.78	466
WTR YR 2000	-98	542	36.7	45.4	3.58	433

15239001 BRADLEY RIVER BELOW DAM NEAR HOMER

LOCATION.--Lat 59°45′30″, long 150°51′02″, in SW¼ SE¼ NW¼ sec. 8, T. 5 S., R. 9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on right bank about 1,300 ft downstream from Bradley Lake Dam, 3.3 mi upstream from Middle Fork Bradley River, and 26 mi northeast of Homer.

DRAINAGE AREA.--About 66 mi^2 since October 1991, when additional water was diverted into the basin. Prior drainage area was about 54 mi^2.

PERIOD OF RECORD.--October 1989 to current year. Prior to 1990 water year, records are equivalent to "Bradley River near Homer" (station no. 15239000).

GAGE.--Water-stage recorder. Datum of gage is 1,054.16 ft above sea level (levels of dam-site survey for Alaska Power Authority).

REMARKS.--No estimated daily discharges. Records fair. Nuka River and Middle Fork Bradley River were diverted into Bradley Lake, upstream from dam, beginning July 29 and August 7, 1990, respectively. Reservoir began filling April 26, 1991. Water has been diverted out of the basin through the turbines since hydro-power generation began on June 28, 1991. Battle Creek was diverted into reservoir in October 1991. Rain gage and air temperature recorder at station, daily values of precipitation and air temperature available from the computer files of the Alaska District.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,450 ft^3/s September 21, 1990, gage height, 7.11 ft; minimum, 0.00 ft^3/s, from rating curve extended below 0.18 ft^3/s, most likely ponded water, but no measurable flow, June 9 and June 10, 1997.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 172 ft^3/s, December 1, gage height, 3.37 ft; minimum, 0.05 ft^3/s, July 4.

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	6.0	32	41	41	41	37	40	29	8.2	.12	46	103
2	3.2	32	36	41	40	37	40	27	5.8	.13	29	105
3	.80	32	36	41	39	37	39	10	1.6	.10	22	103
4	.63	32	36	41	39	37	39	3.6	2.3	1.6	29	99
5	.88	32	36	41	38	36	39	3.4	3.2	3.2	47	99
6	.70	32	36	41	38	36	41	5.9	3.5	3.1	47	98
7	.69	32	36	41	38	37	39	5.0	4.4	18	50	101
8	.93	32	36	41	38	38	38	7.0	3.8	11	52	101
9	.76	32	36	41	37	37	38	7.6	3.7	3.3	55	101
10	.64	32	36	41	37	37	37	10	3.7	21	67	101
11	.58	32	40	41	37	39	37	33	3.5	28	82	100
12	.53	32	42	40	37	39	38	24	3.6	17	82	101
13	.50	32	42	40	37	39	38	5.7	3.6	10	83	84
14	.46	32	42	40	37	39	37	3.9	3.5	9.1	83	78
15	14	31	42	40	37	39	37	3.7	3.5	9.2	83	78
16	30	31	42	40	37	39	38	17	3.3	9.0	84	78
17	34	31	42	40	37	39	36	10	3.3	8.9	83	78
18	34	31	42	40	36	39	36	6.6	3.4	26	84	78
19	33	31	42	40	39	41	36	7.2	3.6	36	83	78
20	33	31	39	40	40	39	36	.61	3.4	37	83	78
21	33	31	47	40	40	38	35	17	3.2	37	83	78
22	33	31	46	40	40	38	44	26	3.2	37	102	57
23	16	31	42	43	40	39	51	28	3.2	36	109	48
24	12	31	42	46	39	38	52	31	3.2	36	108	49
25	15	31	42	41	39	38	52	31	3.2	41	108	49
26	29	31	45	40	39	38	45	31	2.6	47	108	49
27	22	34	43	39	39	38	38	21	.20	48	107	43
28	20	37	42	39	38	38	36	15	.18	57	107	44
29	30	37	42	39	37	39	34	8.2	.16	55	90	44
30	32	37	42	39	---	38	29	14	.13	40	90	44
31	32	---	41	39	---	39	---	14	---	46	107	---
TOTAL	469.30	965	1254	1256	1110	1182	1175	456.41	94.17	731.75	2393	2347
MEAN	15.1	32.2	40.5	40.5	38.3	38.1	39.2	14.7	3.14	23.6	77.2	78.2
MAX	34	37	47	46	41	41	52	33	8.2	57	109	105
MIN	.46	31	36	39	36	36	29	.61	.13	.10	22	43
AC-FT	931	1910	2490	2490	2200	2340	2330	905	187	1450	4750	4660

CAL YR 1999 TOTAL 13071.93 MEAN 35.8 MAX 92 MIN .46 AC-FT 25930
WTR YR 2000 TOTAL 13433.63 MEAN 36.7 MAX 109 MIN .10 AC-FT 26650

15239050 MIDDLE FORK BRADLEY RIVER NEAR HOMER

LOCATION.--Lat 59°46′42″, long 150°45′15″, in NW¼ NE¼ sec.2, T.5 S., R.9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on left bank 6.0 mi upstream from mouth and 27 mi east of Homer.

DRAINAGE AREA.--9.25 mi^2.

PERIOD OF RECORD.--October 1979 to current year. Published as Bradley River tributary near Homer prior to October 1989.

REVISED RECORDS.-- WDR AK-86-1: 1980(P), 1981-82(M), 1984(M).

GAGE.--Water-stage recorder. Elevation of gage is 2,300 ft above sea level, from topographic map.

REMARKS.--Records fair except for Sep. 24, 25, and estimated daily discharges, which are poor. Precipitation gage and air temperature recorder at station; daily values of air temperature and precipitation are available from the computer files of the Alaska District.

REVISIONS.-- Revised maximum discharges and daily discharges in cubic feet per second for water years 1995, 1996, and 1997 are given below. These figures supersede those published in the reports for 1995-97.

1995 WATER YEAR:

EXTREMES FOR 1995 WATER YEAR.-- Peak discharges greater than base discharge of 300 ft^3/s and maximums (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Sep. 22	1200	a755	a8.74

Daily Discharges:

Sept.	20.....966	Sept.	24.....248	Sept.	28.....150
	21.....833		25.....253		29.....122
	22.....571		26.....185		30.....95
	23.....315		27.....136		

	TOTAL	MEAN	MAX	MIN	AC-FT	CFSM	INCHES
Sept.	6610	220	966	59	13110	23.8	26.58
WTR YR 1995	19189	52.6	966	3.0	38060	5.68	77.17

a Not previously published. All other peak discharges greater than base discharge remain unchanged.

15239050 MIDDLE FORK BRADLEY RIVER NEAR HOMER--Continued

REVISIONS.-- Continued.

1996 WATER YEAR:

EXTREMES FOR 1996 WATER YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximums (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jul 28	19:00	*226	*7.99

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1995 TO SEPTEMBER 1996
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	116	19	e8.0	e5.5	e3.8	e4.0	e2.7	e3.0	42	93	131	53
2	88	e18	e7.5	e5.5	e3.8	e3.8	e2.7	e3.2	57	97	103	61
3	71	e16	e7.0	e5.0	e3.8	e3.6	e2.6	e3.4	63	102	93	63
4	59	e15	e7.0	e5.0	e3.8	e3.4	e2.6	e4.6	74	105	84	60
5	52	e14	e7.0	e5.0	e3.8	e3.4	e2.6	e5.5	93	107	90	65
6	48	e14	e7.5	e5.0	e3.6	e3.2	e2.6	e7.0	76	99	89	68
7	45	e14	e8.0	e5.0	e3.6	e3.2	e2.6	9.8	72	90	86	51
8	41	e15	e8.0	e5.0	e3.6	e3.2	e2.6	14	62	91	76	40
9	36	e16	e8.0	e4.8	e3.6	e3.2	e2.6	15	61	103	69	42
10	34	e16	e8.0	e4.8	e3.6	e3.2	e2.5	15	60	118	112	44
11	33	e16	e7.5	e4.8	e3.6	e3.2	e2.5	18	46	120	98	40
12	33	e15	e7.5	e4.8	e3.4	e3.2	e2.5	21	40	122	85	69
13	29	e13	e7.0	e4.6	e3.4	e3.0	e2.5	24	38	123	91	68
14	27	e12	e7.0	e4.4	e3.4	e3.0	e2.5	30	38	101	88	62
15	26	e12	e7.0	e4.2	e3.4	e3.0	e2.5	29	43	102	70	51
16	28	e11	e6.5	e4.2	e3.4	e3.0	e2.5	22	57	124	78	49
17	24	e11	e6.5	e4.0	e3.4	e3.0	e2.5	19	62	115	77	111
18	23	e10	e6.5	e4.0	e3.4	e2.9	e2.4	19	54	116	91	122
19	24	e10	e6.5	e4.0	e3.2	e2.9	e2.4	19	59	112	101	74
20	22	10	e6.0	e4.0	e3.2	e2.9	e2.4	18	74	112	e100	56
21	29	9.5	e6.0	e4.2	e3.2	e2.9	e2.5	15	88	100	e95	49
22	21	9.4	e6.0	e4.2	e3.2	e2.9	e2.5	13	93	108	e90	44
23	22	9.0	e6.0	e4.2	e3.2	e2.8	e2.5	12	112	133	130	36
24	22	8.8	e6.0	e4.2	e3.2	e2.8	e2.6	14	170	139	101	35
25	19	e8.5	e6.0	e4.2	e3.2	e2.8	e2.6	15	147	110	96	52
26	18	e8.5	e6.0	e4.2	e3.2	e2.8	e2.6	19	111	110	66	41
27	33	e8.5	e5.5	e4.2	e5.4	e2.8	e2.7	20	86	116	68	38
28	86	e8.5	e5.5	e4.0	e5.0	e2.7	e2.8	22	70	145	63	35
29	48	e8.5	e5.5	e4.0	e4.4	e2.7	e2.9	25	65	136	64	31
30	30	e8.5	e5.5	e4.0	---	e2.7	e3.0	27	77	105	57	27
31	22	---	e5.5	e3.8	---	e2.7	---	32	---	93	53	---
TOTAL	1209	364.7	207.5	138.8	104.8	94.9	77.5	513.5	2190	3447	2695	1637
MEAN	39.0	12.2	6.69	4.48	3.61	3.06	2.58	16.6	73.0	111	86.9	54.6
MAX	116	19	8.0	5.5	5.4	4.0	3.0	32	170	145	131	122
MIN	18	8.5	5.5	3.8	3.2	2.7	2.4	3.0	38	90	53	27
AC-FT	2400	723	412	275	208	188	154	1020	4340	6840	5350	3250
CFSM	4.22	1.31	.72	.48	.39	.33	.28	1.79	7.89	12.0	9.40	5.90
IN.	4.86	1.47	.83	.56	.42	.38	.31	2.07	8.81	13.86	10.84	6.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1996, BY WATER YEAR (WY)

MEAN	47.6	15.6	8.31	5.83	4.75	3.58	3.29	17.4	88.4	155	144	102
MAX	144	34.5	33.4	17.0	9.32	7.17	4.26	44.5	134	211	190	220
(WY)	1987	1980	1987	1981	1981	1981	1981	1990	1993	1981	1993	1995
MIN	17.7	5.29	4.45	3.82	2.86	1.30	2.58	5.45	44.7	111	86.9	38.7
(WY)	1993	1985	1985	1991	1991	1986	1996	1987	1985	1996	1996	1992

SUMMARY STATISTICS	FOR 1995 CALENDAR YEAR		FOR 1996 WATER YEAR		WATER YEARS 1980 - 1996	
ANNUAL TOTAL	19738.60		12679.7			
ANNUAL MEAN	54.1		34.6		50.0	
HIGHEST ANNUAL MEAN					63.8	1980
LOWEST ANNUAL MEAN					34.6	1996
HIGHEST DAILY MEAN	966	Sep 20	170	Jun 24	966	Sep 20 1995
LOWEST DAILY MEAN	a3.0	Apr 1	b2.4	Apr 18	c1.1	Mar 28 1986
ANNUAL SEVEN-DAY MINIMUM	3.0	Apr 1	2.5	Apr 14	1.1	Mar 28 1986
INSTANTANEOUS PEAK FLOW			226	Jul 28	1470	Sep 20 1995
INSTANTANEOUS PEAK STAGE			7.99	Jul 28	d8.86	Sep 20 1995
INSTANTANEOUS PEAK STAGE			f8.57	Nov 08	f16.16	May 12 1988
ANNUAL RUNOFF (AC-FT)	39150		25150		36230	
ANNUAL RUNOFF (CFSM)	5.85		3.75		5.41	
ANNUAL RUNOFF (INCHES)	79.38		50.99		73.45	
10 PERCENT EXCEEDS	143		101		149	
50 PERCENT EXCEEDS	15		14		12	
90 PERCENT EXCEEDS	3.1		2.8		3.2	

a Apr. 1-14
b Apr. 18-20
c From Mar. 28 to Apr. 10, 1986
d From recorded range in stage
e Estimated
f Backwater from ice

15239050 MIDDLE FORK BRADLEY RIVER NEAR HOMER--Continued

REVISIONS.-- Continued.

1997 WATER YEAR:

EXTREMES FOR 1997 WATER YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximums (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jun. 10	2100	302	8.18	Sep. 07	1200	443	8.46
Jun. 28	0200	329	8.24	Sep. 09	0200	471	8.51
Aug. 09	1700	383	8.35	Sep. 24	0730	*663	*8.80

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 1996 TO SEPTEMBER 1997
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25	20	e8.0	e4.0	e3.6	e3.2	e2.7	5.2	50	169	122	98
2	e21	e18	e7.5	e3.6	e3.8	e3.2	e2.7	5.5	50	175	105	89
3	e21	e16	e7.0	e3.4	e4.0	3.3	e2.6	6.2	55	165	108	82
4	e21	15	e7.0	e3.4	e4.2	3.3	e2.6	7.6	67	153	128	81
5	21	e13	e6.5	e3.4	e4.4	e3.2	e2.6	8.6	107	143	139	91
6	20	e12	e6.5	e4.0	e4.4	3.3	e2.6	9.5	91	149	111	112
7	21	e11	e6.5	e4.6	e4.4	3.2	e2.5	10	85	162	83	246
8	20	e10	e6.0	e4.8	e4.4	3.2	e2.5	9.7	108	151	117	342
9	19	e9.0	e6.0	e4.8	e4.2	3.2	e2.5	10	127	163	214	311
10	e18	e10	e5.5	e5.0	e4.2	e3.2	e2.5	11	141	145	142	192
11	17	e11	e5.5	e5.0	e4.0	e3.2	e2.4	14	123	174	183	168
12	e16	e11	e5.5	e5.0	e4.0	e3.2	e2.4	16	105	172	167	140
13	e14	10	e5.0	e5.0	4.1	e3.2	2.4	11	113	147	165	116
14	e13	9.1	e5.0	e5.0	4.2	e3.2	2.4	9.8	121	149	136	98
15	e12	12	e5.0	e5.0	3.9	e3.2	2.6	8.6	103	138	128	88
16	e12	e12	e4.8	e4.8	3.7	3.2	2.5	8.7	93	129	156	81
17	e12	e12	e4.8	e4.6	3.7	3.3	2.5	12	87	218	137	93
18	e13	e12	e4.6	e4.6	3.6	3.4	2.4	13	100	156	126	92
19	e13	e11	e4.6	4.5	3.6	3.3	2.4	12	102	140	113	67
20	e13	e11	e4.4	4.3	e3.6	3.2	2.4	15	95	124	96	70
21	e13	e10	e4.4	4.2	e3.4	3.1	2.4	24	97	112	140	79
22	e12	e9.5	e4.2	4.1	e3.4	3.1	2.5	31	120	116	154	456
23	e11	e9.5	e4.2	4.0	e3.4	3.0	2.8	34	140	123	154	512
24	11	e9.0	e4.2	4.0	e3.4	3.0	4.0	35	169	123	134	474
25	e10	e8.5	e4.0	4.0	e3.4	3.1	6.4	39	177	160	128	285
26	11	e8.5	e4.0	4.0	e3.4	3.1	6.1	43	204	175	142	208
27	11	e9.0	e4.2	4.1	e3.4	2.9	5.6	42	247	142	115	180
28	11	e9.0	4.3	e4.0	e3.4	2.9	5.4	44	269	142	107	137
29	11	e9.0	4.4	e3.8	---	2.8	5.2	53	228	155	103	119
30	17	e8.5	4.3	e3.8	---	2.8	5.2	57	193	161	155	111
31	23	---	e4.2	e3.8	---	2.8	---	53	---	157	132	---
TOTAL	483	335.6	162.1	132.6	107.2	97.3	95.8	658.4	3767	4688	4140	5218
MEAN	15.6	11.2	5.23	4.28	3.83	3.14	3.19	21.2	126	151	134	174
MAX	25	20	8.0	5.0	4.4	3.4	6.4	57	269	218	214	512
MIN	10	8.5	4.0	3.4	3.4	2.8	2.4	5.2	50	112	83	67
AC-FT	958	666	322	263	213	193	190	1310	7470	9300	8210	10350
CFSM	1.68	1.21	.57	.46	.41	.34	.35	2.30	13.6	16.3	14.4	18.8
IN.	1.94	1.35	.65	.53	.43	.39	.39	2.65	15.15	18.85	16.65	20.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 1997, BY WATER YEAR (WY)

MEAN	45.9	15.3	8.14	5.74	4.70	3.56	3.29	17.7	90.5	155	144	106
MAX	144	34.5	33.4	17.0	9.32	7.17	4.26	44.5	134	211	190	220
(WY)	1987	1980	1987	1981	1981	1981	1981	1990	1993	1981	1993	1995
MIN	15.6	5.29	4.45	3.82	2.86	1.30	2.58	5.45	44.7	111	86.9	38.7
(WY)	1997	1985	1985	1991	1991	1986	1996	1987	1985	1996	1996	1992

SUMMARY STATISTICS	FOR 1996 CALENDAR YEAR		FOR 1997 WATER YEAR		WATER YEARS 1980 - 1997	
ANNUAL TOTAL	11879.2		19885.0			
ANNUAL MEAN	32.5		54.5		50.3	
HIGHEST ANNUAL MEAN					63.8	1980
LOWEST ANNUAL MEAN					34.6	1996
HIGHEST DAILY MEAN	170	Jun 24	512	Sep 23	966	Sep 20 1995
LOWEST DAILY MEAN	a2.4	Apr 18	b2.4	Apr 11	c1.1	Mar 28 1986
ANNUAL SEVEN-DAY MINIMUM	2.5	Apr 14	2.4	Apr 8	1.1	Mar 28 1986
INSTANTANEOUS PEAK FLOW			663	Sep 24	1470	Sep 20 1995
INSTANTANEOUS PEAK STAGE			8.80	Sep 24	d8.86	Sep 20 1995
INSTANTANEOUS PEAK STAGE			f9.60	Feb 04	f16.16	May 12 1988
ANNUAL RUNOFF (AC-FT)	23560		39440		36410	
ANNUAL RUNOFF (CFSM)	3.51		5.89		5.43	
ANNUAL RUNOFF (INCHES)	47.77		79.97		73.82	
10 PERCENT EXCEEDS	100		155		150	
50 PERCENT EXCEEDS	11		11		12	
90 PERCENT EXCEEDS	2.8		3.2		3.2	

a Apr. 18-20
b Apr. 11-14, 18-21
c From Mar. 28 to Apr. 10, 1986
d From recorded range in stage
e Estimated
f Backwater from ice

15239050 MIDDLE FORK BRADLEY RIVER NEAR HOMER--Continued

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximums (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Jul 16	2100	443	8.46	Aug 2	1700	466*	8.50*

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	109	e19	9.5	6.2	e4.5	e3.0	e2.5	3.6	27	160	176	86
2	191	e18	9.2	6.0	e4.0	e3.0	e2.5	3.5	30	173	374	78
3	111	e17	e9.0	5.8	e4.0	e3.0	3.3	3.8	30	173	389	65
4	81	e16	e9.0	5.8	e4.0	e3.0	3.3	4.3	32	153	277	53
5	71	e15	e9.0	5.8	e4.0	e3.0	3.2	4.7	36	187	190	47
6	58	e15	8.7	5.5	e4.0	e3.0	3.1	4.7	45	168	142	45
7	50	e14	8.5	5.5	e4.0	e3.0	3.1	5.1	86	155	120	40
8	45	e14	8.3	5.5	e4.0	e3.0	3.1	4.8	84	180	112	36
9	39	e13	e8.0	5.4	e4.0	e3.0	3.1	5.3	73	181	110	33
10	35	e13	e8.0	5.4	e4.0	e3.0	3.4	5.7	68	155	107	33
11	32	e13	e8.0	e4.5	e4.0	e3.0	3.1	5.8	71	153	103	31
12	31	e12	e8.0	e4.5	4.0	e3.0	3.2	6.9	74	186	110	30
13	e27	e12	e8.0	e5.0	4.0	e3.0	3.3	8.5	73	212	127	40
14	e27	e12	7.8	e5.0	4.0	e3.0	3.1	8.7	74	268	166	38
15	e27	e12	7.7	e5.0	4.0	e3.0	3.7	8.3	71	320	152	34
16	e29	e12	e7.5	e5.0	4.1	e3.0	3.8	9.1	66	384	118	30
17	40	e11	e7.5	4.9	4.0	e3.0	3.3	9.7	65	312	102	27
18	99	e14	e7.5	4.9	e4.0	e3.0	3.1	10	72	196	93	24
19	83	20	e7.0	4.9	e4.0	e3.0	3.5	11	82	153	91	22
20	61	36	e7.0	4.7	e3.5	e3.0	3.3	11	71	135	86	22
21	50	15	e17	4.8	e3.5	e3.0	3.4	10	64	134	79	45
22	44	12	e140	4.7	e3.5	e3.0	3.1	9.7	86	133	75	98
23	e38	11	e110	e4.5	e3.5	e3.0	3.0	8.9	86	131	64	89
24	e34	e10	e34	e4.5	e3.5	e3.0	3.0	8.0	88	138	56	122
25	e32	11	e14	e4.5	e3.5	e3.0	3.1	8.5	113	128	50	119
26	e29	10	e16	e4.5	e3.5	e3.0	3.2	10	126	129	47	98
27	e26	10	e12	e4.5	e3.5	e3.0	3.3	12	148	129	65	72
28	e24	9.8	e9.0	e4.5	e3.5	e2.5	3.3	15	162	112	74	54
29	e22	9.7	e7.5	e4.5	e3.5	e2.5	3.3	18	160	129	122	45
30	e21	9.6	6.9	4.7	---	e2.5	3.3	20	161	165	112	39
31	e20	---	6.5	4.7	---	e2.5	---	21	---	163	86	---
TOTAL	1586	416.1	536.1	155.7	111.6	91.0	96.0	275.6	2424	5495	3975	1595
MEAN	51.2	13.9	17.3	5.02	3.85	2.94	3.20	8.89	80.8	177	128	53.2
MAX	191	36	140	6.2	4.5	3.0	3.8	21	162	384	389	122
MIN	20	9.6	6.5	4.5	3.5	2.5	2.5	3.5	27	112	47	22
AC-FT	3150	825	1060	309	221	180	190	547	4810	10900	7880	3160
CFSM	5.53	1.50	1.87	.54	.42	.32	.35	.96	8.74	19.2	13.9	5.75
IN.	6.38	1.67	2.16	.63	.45	.37	.39	1.11	9.75	22.10	15.99	6.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2000, BY WATER YEAR (WY)

MEAN	44.7	16.3	8.44	5.63	4.65	3.57	3.26	16.8	94.2	158	142	105
MAX	144	34.5	33.4	17.0	9.32	7.17	4.26	44.5	162	211	190	220
(WY)	1987	1980	1987	1981	1981	1981	1981	1990	1998	1981	1993	1995
MIN	15.6	5.29	4.45	3.82	2.86	1.30	2.38	5.45	44.7	111	86.9	38.7
(WY)	1997	1985	1985	1991	1991	1986	1999	1987	1985	1996	1996	1992

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1980 - 2000	
ANNUAL TOTAL	20171.0		16757.1			
ANNUAL MEAN	55.3		45.8		50.4	
HIGHEST ANNUAL MEAN					63.8	1980
LOWEST ANNUAL MEAN					34.6	1996
HIGHEST DAILY MEAN	451	Sep 18	389	Aug 3	959	Sep 20 1995
LOWEST DAILY MEAN	a1.8	May 9	b2.5	Mar 28	c1.1	Mar 28 1986
ANNUAL SEVEN-DAY MINIMUM	1.9	May 5	2.6	Mar 27	1.1	Mar 28 1986
INSTANTANEOUS PEAK FLOW			466	Aug 2	1470	Sep 20 1995
INSTANTANEOUS PEAK STAGE			8.50	Aug 2	d8.86	Sep 20 1995
INSTANTANEOUS PEAK STAGE			f9.06	Dec 22	f16.16	May 12 1988
ANNUAL RUNOFF (AC-FT)	40010		33240		36550	
ANNUAL RUNOFF (CFSM)	5.97		4.95		5.45	
ANNUAL RUNOFF (INCHES)	81.12		67.39		74.11	
10 PERCENT EXCEEDS	163		136		150	
50 PERCENT EXCEEDS	13		12		12	
90 PERCENT EXCEEDS	2.7		3.1		3.2	

a From May 9-11
b From Mar 28 to Apr 2
c From Mar. 28 to Apr. 10, 1986
d From recorded range in stage
e Estimated
f Backwater from ice

15239060 MIDDLE FORK BRADLEY RIVER BELOW NORTH FORK BRADLEY RIVER NEAR HOMER

LOCATION.--Lat 59°47′54″, long 150°51′48″, in SE¼ NE¼ SW¼ sec. 29, T. 4 S., R. 9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on left bank 100 ft upstream from confluence with the main stem Bradley River, 0.2 mi below the mouth of the North Fork Bradley River, 5.5 mi downstream from the Middle Fork Bradley River diversion dam, and 25 mi east of Homer.

DRAINAGE AREA.--24.8 mi^2.

PERIOD OF RECORD.--August 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 200 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Water from upper Middle Fork Bradley River (15239050) is diverted into Bradley Lake, at Middle Fork Bradley River diversion dam, located 5.5 mi upstream. Air temperature recorder at station, daily values of air temperature are available from the computer files of the Alaska District.

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	72	26	e7.0	e5.0	e3.8	9.1	e7.5	41	170	149	85	29
2	140	e22	e7.0	e5.0	e4.0	8.8	e7.5	45	176	174	141	27
3	130	e19	e7.0	e5.0	e4.0	8.6	8.1	51	174	162	124	25
4	109	e21	e6.5	e5.0	e4.2	8.4	8.1	64	168	132	98	24
5	119	e21	e6.5	e4.6	e4.4	8.1	7.7	67	177	155	74	23
6	103	e20	e6.5	e4.6	e4.8	7.9	7.4	64	197	126	60	24
7	100	e19	e6.5	e5.5	e5.5	7.7	7.2	74	285	117	54	23
8	104	e18	e6.0	e5.5	e6.0	7.6	7.1	77	255	122	52	22
9	91	e18	e6.0	e5.5	e7.0	7.4	7.1	79	222	118	47	21
10	82	e16	e6.0	e5.5	e8.0	7.2	7.3	80	226	100	45	23
11	74	e17	e5.0	e5.0	e10	7.3	7.5	79	203	101	42	23
12	68	e17	e5.0	e4.6	13	7.2	8.2	87	186	122	41	22
13	60	e17	e5.0	e4.4	12	7.3	13	109	185	138	43	31
14	49	e17	e4.0	e4.4	11	8.2	15	122	188	146	48	29
15	45	e16	e4.0	e4.2	11	8.3	16	111	184	147	44	27
16	42	e16	e4.0	e4.2	10	8.4	21	118	156	185	35	26
17	68	e16	e4.0	e4.0	10	8.4	25	126	139	131	32	25
18	150	e16	e4.0	e4.0	10	8.2	24	131	144	93	31	24
19	123	e16	e4.0	e4.2	10	8.3	25	126	176	76	30	23
20	98	e16	e4.0	e4.6	11	8.5	31	120	156	70	29	23
21	83	e16	e15	e4.8	10	8.4	31	103	131	69	29	26
22	71	e16	e130	e4.8	9.8	8.2	26	94	125	68	29	33
23	59	e15	e60	e4.8	9.4	8.2	23	89	133	76	26	34
24	51	e14	e40	e4.8	9.1	8.1	22	84	139	78	25	43
25	47	e13	e70	e4.6	8.8	7.9	21	90	160	69	24	38
26	38	e12	113	e4.4	8.5	7.7	20	97	170	66	23	38
27	37	e11	e55	e4.2	8.5	e7.5	22	113	173	67	26	34
28	33	e10	e30	e4.0	9.1	e7.5	26	133	167	57	25	31
29	32	e9.0	e15	e3.8	9.6	e7.5	30	140	161	69	37	29
30	30	e7.0	e8.0	e3.8	---	e7.5	35	140	150	85	34	28
31	30	---	e5.0	e3.8	---	e7.5	---	153	---	80	28	---
TOTAL	2338	487.0	649.0	142.6	242.5	246.9	516.7	3007	5276	3348	1461	828
MEAN	75.4	16.2	20.9	4.60	8.36	7.96	17.2	97.0	176	108	47.1	27.6
MAX	150	26	130	5.5	13	9.1	35	153	285	185	141	43
MIN	30	7.0	4.0	3.8	3.8	7.2	7.1	41	125	57	23	21
AC-FT	4640	966	1290	283	481	490	1020	5960	10460	6640	2900	1640
CFSM	3.04	.65	.84	.19	.34	.32	.69	3.91	7.09	4.35	1.90	1.11
IN.	3.51	.73	.97	.21	.36	.37	.78	4.51	7.91	5.02	2.19	1.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)#

MEAN	47.0	45.1	12.4	5.37	10.7	9.82	24.2	112	182	93.9	37.9	75.3
MAX	75.4	96.3	20.9	7.34	16.7	20.7	36.4	131	246	122	63.8	116
(WY)	2000	1998	2000	1998	1998	1998	1998	1998	1998	1998	1998	1997
MIN	23.2	16.2	7.69	2.68	2.00	2.74	9.59	97.0	103	45.7	12.5	27.6
(WY)	1997	2000	1997	1999	1999	1999	1999	2000	1997	1997	1996	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000#	
ANNUAL TOTAL	20243.7		18542.7			
ANNUAL MEAN	55.5		50.7		56.0	
HIGHEST ANNUAL MEAN					73.6	1998
LOWEST ANNUAL MEAN					44.0	1997
HIGHEST DAILY MEAN	328	Jun 10	285	Jun 7	626	Nov 9 1997
LOWEST DAILY MEAN	a1.0	Feb 5	b3.8	Jan 29	a1.0	Feb 5 1999
ANNUAL SEVEN-DAY MINIMUM	1.0	Feb 5	3.9	Jan 28	1.0	Feb 5 1999
INSTANTANEOUS PEAK FLOW			c337	Jun 7	c875	Nov 9 1997
INSTANTANEOUS PEAK STAGE			11.06	Jun 7	13.64	Nov 9 1997
ANNUAL RUNOFF (AC-FT)	40150		36780		40570	
ANNUAL RUNOFF (CFSM)	2.24		2.04		2.26	
ANNUAL RUNOFF (INCHES)	30.37		27.81		30.68	
10 PERCENT EXCEEDS	158		140		150	
50 PERCENT EXCEEDS	24		25		27	
90 PERCENT EXCEEDS	2.5		5.0		4.9	

\# See Period of Record partial years used in monthly statistics
a From Feb. 5 to Feb. 12, 1999
b From Jan. 29 to Feb. 1
c From rating curve extended above 50 ft^3/s on basis of comparison of instantaneous discharge of Bradley River below Dam (15239001) and instantaneous discharge of Bradley River near Tidewater (15239070)
e Estimated

15239070 BRADLEY RIVER NEAR TIDEWATER NEAR HOMER

LOCATION.--Lat 59°48′06″, long 150°52′58″, in SE¼ NE¼ sec. 30, T. 4 S., R. 9 W. (Seldovia D-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on right bank 0.7 mi upstream from mouth, 0.8 mi downstream from Middle Fork Bradley River, 4.3 mi downstream from Bradley Lake outlet and dam site, and 25 mi east of Homer.

DRAINAGE AREA.--Indeterminate.

PERIOD OF RECORD.--May 1983 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 25 ft above sea level, from topographic map.

REMARKS.--Records good, except for estimated daily discharges, which are poor. Flow occasionally affected by high tides. Intermittent regulation during construction at the Bradley River dam site began in November 1986. Flow has been regulated since the reservoir began filling April 26, 1991. (See station 15239001.) Upper Nuka River was diverted into Upper Bradley River on July 29, 1990; flow from about 10 mi^2 of Middle Fork Bradley River upstream drainage has been seasonally diverted into the Bradley Lake reservoir since August 7, 1990. Battle Creek was diverted into the reservoir in October 1990. Water has been diverted out of the basin through the turbines since hydropower generation began June 28, 1991. Rain gage and air temperature recorder at station; daily values of precipitation and air temperature available from the computer files of the Alaska District.

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	83	62	e48	e46	e48	51	e46	93	195	158	141	145
2	165	e57	e44	e46	e46	50	e46	97	198	179	185	143
3	148	e53	e44	e46	e44	50	e46	89	192	169	154	140
4	124	e55	e44	e46	e44	49	e48	90	187	143	132	132
5	136	59	e44	e46	e44	49	50	92	194	167	133	131
6	120	58	e44	e46	e46	49	51	91	212	140	117	131
7	116	56	e44	e46	e46	49	50	103	310	138	115	131
8	126	54	e42	e46	e46	50	48	108	268	143	116	129
9	112	52	e42	e46	e46	49	47	112	232	128	114	127
10	97	e50	e42	e46	e48	49	48	113	233	120	119	132
11	86	e50	e46	e46	e50	50	49	133	214	136	138	130
12	77	e52	e48	e46	e50	50	52	140	202	148	137	129
13	70	e52	e48	e44	e50	50	61	145	200	155	139	130
14	60	e52	e46	e44	e50	53	65	161	200	160	143	116
15	63	e52	e46	e44	e50	53	65	148	198	162	140	112
16	82	e52	e46	e44	50	54	73	165	176	194	130	110
17	111	e50	e46	e46	49	54	83	167	159	145	126	108
18	191	e50	e46	e46	50	53	79	168	162	118	125	106
19	166	e50	e46	e46	53	53	87	163	191	114	123	105
20	144	e50	e44	e48	55	53	116	151	176	110	121	104
21	128	e50	e60	e48	53	52	108	143	151	109	121	111
22	113	e50	e200	e48	e52	52	101	143	144	109	139	101
23	87	e48	e110	52	e51	52	95	140	151	117	146	89
24	66	e46	e90	54	51	51	89	136	156	120	143	99
25	68	e44	e120	52	50	51	85	142	173	115	142	93
26	62	e44	e180	e48	e50	50	78	149	182	123	141	93
27	68	e46	e100	e46	51	e48	71	158	184	123	145	84
28	55	e50	e75	e44	52	e46	73	172	176	121	144	81
29	66	e48	e60	e44	52	e48	81	172	170	141	141	83
30	67	e44	e50	e44	---	e48	84	174	160	134	136	82
31	65	---	e46	e44	---	e48	---	190	---	135	148	---
TOTAL	3122	1536	1991	1438	1427	1564	2075	4248	5746	4274	4194	3407
MEAN	101	51.2	64.2	46.4	49.2	50.5	69.2	137	192	138	135	114
MAX	191	62	200	54	55	54	116	190	310	194	185	145
MIN	55	44	42	44	44	46	46	89	144	109	114	81
AC-FT	6190	3050	3950	2850	2830	3100	4120	8430	11400	8480	8320	6760

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2000, BY WATER YEAR (WY)#

MEAN	93.2	87.1	59.1	53.6	64.6	53.6	71.5	160	183	142	135	139
MAX	145	143	80.5	69.4	112	70.5	93.8	205	263	158	178	224
(WY)	1992	1998	1993	1994	1994	1998	1993	1992	1998	1995	1995	1995
MIN	64.0	51.2	47.1	41.6	42.2	43.9	50.5	120	114	115	117	104
(WY)	1998	2000	1998	1999	1999	1999	1999	1996	1997	1997	1997	1993

See Period of Record and Remarks
e Estimated

15239070 BRADLEY RIVER NEAR TIDEWATER NEAR HOMER--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1992 - 2000#	
ANNUAL TOTAL	36545		35022			
ANNUAL MEAN	100		95.7		104	
HIGHEST ANNUAL MEAN					118	1998
LOWEST ANNUAL MEAN					83.8	1996
HIGHEST DAILY MEAN	403	Jun 10	310	Jun 7	954	Sep 21 1995
LOWEST DAILY MEAN	a40	Jan 16	b42	Dec 8	c40	Dec 15 1992
ANNUAL SEVEN-DAY MINIMUM	40	Jan 28	43	Dec 4	40	Jan 28 1999
INSTANTANEOUS PEAK FLOW			380	Jun 7	1320	Nov 9 1997
INSTANTANEOUS PEAK STAGE			6.08	Jun 7	7.59	Nov 9 1997
INSTANTANEOUS PEAK STAGE			d8.80	Dec 22	d8.80	Dec 22 1999
INSTANTANEOUS LOW FLOW					30	Dec 1 1997
ANNUAL RUNOFF (AC-FT)	72490		69470		75040	
10 PERCENT EXCEEDS	197		167		173	
50 PERCENT EXCEEDS	67		83		84	
90 PERCENT EXCEEDS	42		46		48	

PRIOR TO REGULATION AND DIVERSION OF BRADLEY DAM

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 1989, BY WATER YEAR (WY)#

	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
MEAN	808	224	198	145	82.1	74.0	72.8	462	1032	1390	1318	966
MAX	1908	480	503	223	114	163	101	676	1357	1577	1781	1746
(WY)	1987	1984	1987	1985	1985	1984	1989	1987	1988	1988	1988	1989
MIN	363	86.1	78.9	72.5	37.4	27.4	42.5	282	862	1153	907	470
(WY)	1984	1986	1988	1989	1989	1989	1985	1985	1986	1983	1983	1983

SUMMARY STATISTICS	WATER YEARS 1983 - 1989#	
ANNUAL MEAN	583	
HIGHEST ANNUAL MEAN	722	1987
LOWEST ANNUAL MEAN	475	1985
HIGHEST DAILY MEAN	10000	Oct 11 1986
LOWEST DAILY MEAN	19	Dec 7 1986
ANNUAL SEVEN-DAY MINIMUM	22	Mar 26 1989
INSTANTANEOUS PEAK FLOW	f11000	Oct 11 1986
INSTANTANEOUS PEAK STAGE	g13.73	Oct 11 1986
INSTANTANEOUS LOW FLOW	h17	Mar 28 1989
ANNUAL RUNOFF (AC-FT)	422700	
ANNUAL RUNOFF (CFSM)	7.11	
ANNUAL RUNOFF (IN)	96.67	
10 PERCENT EXCEEDS	1470	
50 PERCENT EXCEEDS	388	
90 PERCENT EXCEEDS	52	

\# See Period of Record and Remarks
a Jan. 16 to Jan. 20 and Jan. 28 to Feb. 12
b Dec. 8-10
c Dec. 15 to Dec. 18, 1992; Apr. 20 to Apr. 21, 1995; Jan. 9 and Apr. 22, 1997; Mar. 5, 1998; Jan. 16 to Jan. 20, and Jan. 28 to Feb. 12, 1999
d Backwater from ice and high tide
f From rating curve extended above 2,400 ft^3/s on basis of runoff comparisons with nearby stations
g From floodmarks
h Minimum recorded, but may have been less during period of ice effect, Mar. 28 to Mar. 31, 1989

15241600 NINILCHIK RIVER AT NINILCHIK

LOCATION.--Lat 60°02′56″, long 151°39′48″, in NE¼ sec. 34, T. 1 S., R. 14 W. (Kenai A-5 quad), Kenai Peninsula Borough, Hydrologic Unit 19020301, on right bank 60 ft downstream from bridge, 0.9 mi upstream from mouth, at Ninilchik.

DRAINAGE AREA.--131 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--April 1963 to September 1985, October 1998 to current year.

GAGE.--Water-stage-recorder. Elevation of gage is 30 ft above sea level, from topographic map. Prior to October 1, 1965, at site 0.2 mi upstream at different datum.

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

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	138	e80	e46	e70	e60	e55	e55	e650	125	66	85	79
2	220	e75	e46	e70	e60	e55	e55	e600	113	64	86	79
3	201	e70	e46	e70	e60	e55	e55	e600	105	62	97	76
4	170	e65	e46	e70	e60	e55	e60	e550	100	61	91	73
5	187	e60	e46	e70	e60	e55	e60	e600	95	69	83	73
6	215	e55	e46	e70	e60	e55	e60	452	86	70	77	76
7	188	e55	e44	e70	e60	e55	e60	404	84	66	72	74
8	209	e55	e44	e70	e60	e55	e65	359	83	63	70	72
9	259	e50	e44	e65	e60	e55	e65	301	81	66	68	70
10	209	e50	e44	e65	e60	e55	e65	270	80	68	67	85
11	169	e50	e44	e65	e60	e55	e65	232	80	66	66	134
12	141	e50	e44	e60	e60	e55	e70	213	78	62	65	113
13	130	e50	e42	e55	e60	e55	e70	206	76	59	65	102
14	118	e50	e42	e55	e60	e55	e75	208	76	60	66	101
15	104	e50	e42	e55	e60	e55	e75	207	79	62	64	91
16	97	e50	e42	e55	e60	e55	e80	200	83	86	61	86
17	113	e50	e42	e55	e60	e55	e85	194	88	117	61	84
18	407	e50	e44	e55	e60	e55	e90	193	85	103	62	81
19	e600	e48	e44	e55	e60	e55	e110	194	83	144	62	79
20	393	e48	e46	e60	e60	e55	e120	219	82	130	63	79
21	284	e48	e60	e60	e60	e55	e140	215	82	159	64	96
22	209	e48	e90	e60	e60	e55	e170	196	79	199	64	104
23	167	e48	e80	e60	e55	e55	e200	176	74	192	64	165
24	148	e48	e80	e60	e55	e55	e240	159	72	158	65	312
25	129	e48	e75	e60	e55	e55	e290	147	68	137	66	275
26	122	e48	e75	e60	e55	e50	344	137	67	117	66	224
27	e120	e48	e75	e60	e55	e50	387	130	68	101	80	190
28	e115	e48	e75	e60	e55	e50	384	125	70	89	87	153
29	e110	e48	e75	e60	e55	e50	423	122	69	86	91	123
30	e100	e48	e70	e60	---	e55	e600	118	69	93	99	106
31	e90	---	e70	e60	---	e55	---	121	---	89	84	---
TOTAL	5862	1591	1709	1920	1705	1685	4618	8498	2480	2964	2261	3455
MEAN	189	53.0	55.1	61.9	58.8	54.4	154	274	82.7	95.6	72.9	115
MAX	600	80	90	70	60	55	600	650	125	199	99	312
MIN	90	48	42	55	55	50	55	118	67	59	61	70
AC-FT	11630	3160	3390	3810	3380	3340	9160	16860	4920	5880	4480	6850
CFSM	1.41	.40	.41	.46	.44	.41	1.15	2.05	.62	.71	.54	.86
IN.	1.63	.44	.47	.53	.47	.47	1.28	2.36	.69	.82	.63	.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2000, BY WATER YEAR (WY)#

MEAN	131	98.2	63.8	55.4	57.0	64.7	153	232	120	87.4	89.1	117
MAX	221	314	98.5	86.0	93.9	108	548	488	238	151	155	204
(WY)	1981	1980	1980	1980	1982	1970	1974	1977	1964	1980	1981	1982
MIN	78.2	41.1	42.0	36.8	36.0	36.9	41.4	81.7	62.2	57.6	47.8	54.6
(WY)	1969	1964	1966	1974	1974	1974	1985	1969	1969	1983	1969	1969

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1963 - 2000#	
ANNUAL TOTAL	37352		38748			
ANNUAL MEAN	102		106		106	
HIGHEST ANNUAL MEAN					151	1980
LOWEST ANNUAL MEAN					55.4	1969
HIGHEST DAILY MEAN	600	Oct 19	e650	May 1	1220	Apr 24 1974
LOWEST DAILY MEAN	a42	Jan 29	b42	Dec 13	30	Jul 20 1966
ANNUAL SEVEN-DAY MINIMUM	42	Jan 29	43	Dec 11	32	Jan 9 1983
INSTANTANEOUS PEAK FLOW			692	May 1	1240	Apr 24 1974
INSTANTANEOUS PEAK STAGE			c5.42	May 1	6.04	Apr 24 1974
INSTANTANEOUS PEAK STAGE					d8.69	Apr 14 1969
ANNUAL RUNOFF (AC-FT)	74090		76860		76900	
ANNUAL RUNOFF (CFSM)	.76		.79		.79	
ANNUAL RUNOFF (INCHES)	10.37		10.76		10.76	
10 PERCENT EXCEEDS	219		206		198	
50 PERCENT EXCEEDS	67		70		76	
90 PERCENT EXCEEDS	42		50		48	

\# See Period of Record, partial years used in monthly statistics
a From Jan. 29 to Mar. 16
b From Dec. 13 to 17
c Maximum observed
d Backwater from ice
e Estimated

15241600 NINILCHIK RIVER AT NINILCHIK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952-53, 1955-58, 1963-65, 1967-68, 1975, 1978-79, and 1998 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May to September 1963, October 1964 to July 1965, and October 1998 to current year.
SEDIMENT: October 1963 to July 1965.

INSTRUMENTATION.--Electronic water temperature recorder set for 15-minute recording interval.

REMARKS.--Records represent water temperature at sensor within 0.5ºC. Temperature at the sensor was compared with the average for the river by cross section on July 5, and September 26. No variation was found within the cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 20.5ºC, July 4, 1999; minimum, 0.0ºC on many days during fall and winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 19.5ºC, July 12 ; minimum, 0.0ºC on many days during fall and winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLE LOC- ATION, CROSS SECTION (FT FM R BK) (72103)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING METHOD, CODES (82398)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
JUL												
05...	1757	51.0	--	5.0	67	10	98	8.0	16.8	761	10.4	107
05...	1759	51.0	--	15.0	67	10	98	8.1	16.8	761	10.5	108
05...	1801	51.0	--	25.0	67	10	98	8.1	16.8	761	10.5	108
05...	1803	51.0	--	35.0	67	10	98	8.1	16.8	761	10.3	106
05...	1805	51.0	--	45.0	67	10	99	8.1	16.8	761	10.4	107
SEP												
26...	1541	51.0	5.00	--	200	10	76	7.1	9.3	760	11.0	96
26...	1542	51.0	15.0	--	200	10	76	7.1	9.3	760	11.0	96
26...	1543	51.0	25.0	--	200	10	76	7.1	9.3	760	11.0	96
26...	1544	51.0	35.0	--	200	10	76	7.2	9.3	760	11.0	96
26...	1546	51.0	45.0	--	200	10	76	7.2	9.3	760	11.0	96

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	QUALITY ASSUR- ANCE DATA INDICA- TOR CODE (99111)
OCT										
05...	1445	9	9	40.0	4.51	223	10	3045	1001	--
NOV										
04...	1145	9	9	43.0	--	62	10	3045	1001	--
JAN										
04...	1645	9	9	45.0	--	76	10	3045	1001	--
MAR										
06...	1545	9	9	45.0	--	57	10	3045	1001	--
APR										
26...	1945	9	9	40.0	4.99	437	10	3053	1003	--
27...	1010	9	7	40.0	5.05	371	10	3053	1003	30
MAY										
01...	1515	9	9	43.0	5.21	780	10	3053	1003	10
JUN										
05...	1530	9	9	48.0	4.13	96	10	3045	1001	--
JUL										
05...	1745	9	9	51.0	4.01	67	10	3045	1001	--
AUG										
03...	1320	9	9	46.0	4.10	99	10	3053	1001	--
SEP										
05...	1340	9	9	42.0	4.02	76	10	3045	1001	--
05...	1355	9	9	42.0	4.02	76	70	8010	1099	--
26...	1530	9	9	51.0	4.55	221	10	3045	1002	--
26...	1545	9	9	51.0	4.55	221	70	8010	1099	--

15241600 NINILCHIK RIVER AT NINILCHIK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT										
05...	53	7.3	--	6.0	743	11.6	96	22	5.17	2.33
NOV										
04...	88	7.2	--	.0	751	14.3	99	31	6.91	3.29
JAN										
04...	99	7.0	-8.5	.0	754	10.0	69	34	7.25	3.77
MAR										
06...	113	7.3	--	.0	760	12.3	84	41	9.25	4.46
APR										
26...	51	7.0	10.0	2.0	765	12.1	87	20	4.39	2.10
27...	49	7.2	2.5	.5	762	13.5	94	19	4.26	2.01
MAY										
01...	38	7.0	--	1.5	754	12.3	89	14	3.13	1.54
JUN										
05...	78	7.8	--	15.0	759	10.5	105	27	6.17	2.83
JUL										
05...	98	8.0	--	17.0	761	10.4	108	34	7.84	3.62
AUG										
03...	65	7.8	--	12.0	763	10.5	97	34	7.61	3.64
SEP										
05...	99	7.9	11.5	8.0	759	11.6	98	36	8.23	3.72
05...	99	7.9	--	8.0	759	11.6	98	--	--	--
26...	76	7.2	--	9.5	760	11.0	97	22	5.05	2.31
26...	76	7.2	--	9.5	760	11.0	97	--	--	--

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT										
05...	4.8	27	1.6	31	25	.4	3.9	<.1	22.4	76
NOV										
04...	6.9	32	1.6	39	32	.6	3.5	<.1	31.4	87
JAN										
04...	6.7	46	2.2	56	46	.6	3.2	<.1	34.9	92
MAR										
06...	7.6	50	2.0	60	49	.5	3.8	<.1	33.2	108
APR										
26...	3.1	23	1.6	26	22	E.2	1.9	<.1	14.5	61
27...	2.9	22	1.5	26	21	E.2	1.7	<.1	14.0	58
MAY										
01...	2.3	15	1.3	18	14	E.2	1.5	<.1	12.1	48
JUN										
05...	5.7	37	1.8	44	36	.4	2.3	<.1	24.3	73
JUL										
05...	7.1	48	1.8	56	46	.4	1.9	<.1	28.5	92
AUG										
03...	6.9	45	1.7	53	43	.4	1.9	.1	29.6	90
SEP										
05...	8.1	48	2.0	51	47	E.3	2.6	<.1	29.7	91
05...	--	48	--	51	47	--	--	--	--	--
26...	5.3	27	2.6	32	26	.5	4.3	<.1	24.3	80
26...	--	27	--	32	26	--	--	--	--	--

15241600 NINILCHIK RIVER AT NINILCHIK--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT										
05...	57	.002	.026	.013	.39	.39	.115	.049	.038	430
NOV										
04...	75	.002	.110	.059	.30	.20	.072	.061	.047	590
JAN										
04...	87	.003	.099	.022	.31	.24	.066	.050	.044	400
MAR										
06...	92	.001	.146	.066	.38	.20	.107	.054	.054	690
APR										
26...	--	<.001	.035	.021	.48	.28	.198	.044	.035	930
27...	--	.002	.042	<.002	.45	.30	.156	.043	.034	820
MAY										
01...	--	<.001	.059	.216	.28	.27	.119	.050	.001	810
JUN										
05...	66	.001	.031	.024	.30	.26	.095	.064	.057	690
JUL										
05...	80	.002	.016	<.002	.40	.20	.125	.080	.066	760
AUG										
03...	80	.006	.106	.043	.37	.29	.171	.098	.079	890
SEP										
05...	--	.003	.053	.010	.25	.19	.106	.080	.070	790
05...	--	--	--	--	--	--	--	--	--	--
26...	61	.003	.043	.025	.44	.31	.166	.067	.054	380
26...	--	--	--	--	--	--	--	--	--	--

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)
OCT									
05...	51	36	22	19	9.2	--	.7	--	--
NOV									
04...	112	1	.17	--	4.4	--	--	--	--
JAN									
04...	54	3	.62	--	4.7	--	<.2	--	--
MAR									
06...	135	8	1.2	--	3.8	--	.3	--	--
APR									
26...	163	144	170	46	9.9	--	2.1	--	--
27...	117	84	84	51	9.7	--	1.3	--	--
MAY									
01...	90	48	101	53	9.4	--	.3	--	--
JUN									
05...	71	9	2.3	--	5.5	--	.5	--	--
JUL									
05...	96	13	2.4	72	5.5	--	.2	--	--
AUG									
03...	95	23	6.1	74	6.0	--	1.2	--	--
SEP									
05...	107	6	1.2	80	4.2	--	.3	--	--
05...	--	--	--	--	4.3	<.1	.3	.3	.035
26...	53	31	18	68	8.3	--	1.3	--	--
26...	--	--	--	--	--	--	--	--	.16

15241600 NINILCHIK RIVER AT NINILCHIK--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.5	5.5	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	7.5	6.0	6.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	6.0	5.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	5.5	5.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	6.5	5.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	5.5	4.5	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	5.5	4.5	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	4.5	4.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	4.0	3.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	3.5	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	3.0	2.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	3.0	2.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	1.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	2.0	1.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	2.0	1.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	1.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	.0	.0	.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	7.5	.0	2.3	.0	.0	.0	.0	.0	.0	.0	.0	.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.5	1.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	1.0	2.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	1.0	3.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	1.5	3.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.5	2.0	3.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	2.5	4.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	3.5	5.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	3.0	4.5
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	3.0	5.0
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	3.0	5.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	3.5	5.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	3.5	5.5
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	4.0	6.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	4.5	5.5
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	4.0	5.0
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	4.0	5.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	4.5	5.5
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.0	4.5	5.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	4.5	5.0
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	6.5	3.5	4.5
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	3.5	5.5
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	4.5	6.0
23	.0	.0	.0	.0	.0	.0	.5	.0	.0	9.0	5.0	7.0
24	.0	.0	.0	.0	.0	.0	.5	.0	.0	9.5	5.0	7.0
25	.0	.0	.0	.0	.0	.0	.5	.0	.5	10.0	4.5	7.5
26	.0	.0	.0	.0	.0	.0	2.5	.0	1.0	11.0	5.5	8.0
27	.0	.0	.0	.0	.0	.0	2.5	.5	1.5	11.5	5.5	8.5
28	.0	.0	.0	.0	.0	.0	2.5	.5	1.5	12.0	6.5	9.5
29	.0	.0	.0	.0	.0	.0	3.0	.5	1.5	12.5	6.5	9.5
30	---	---	---	.0	.0	.0	2.5	.5	1.5	10.5	8.0	9.0
31	---	---	---	.0	.0	.0	---	---	---	10.5	7.0	8.5
MONTH	.0	.0	.0	.0	.0	.0	3.0	.0	.2	12.5	.5	5.6

15241600 NINILCHIK RIVER AT NINILCHIK--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.0	7.5	9.5	18.0	11.5	14.5	12.5	10.0	11.0	11.5	8.5	9.5
2	12.0	7.0	9.5	18.0	12.0	14.5	12.0	10.5	11.0	11.0	6.5	9.0
3	12.5	7.0	10.0	18.5	13.0	15.5	13.0	10.0	11.5	11.0	7.5	9.5
4	14.0	7.5	11.0	17.5	13.0	15.0	15.0	10.5	12.5	10.5	6.5	8.5
5	15.0	9.0	12.0	17.0	13.0	15.0	15.5	10.5	12.5	9.0	7.5	8.0
6	14.0	9.0	11.5	16.5	12.5	14.5	16.0	10.0	13.0	9.5	6.5	8.0
7	12.0	9.5	11.0	14.5	12.0	13.5	15.5	10.0	13.0	10.0	6.0	8.0
8	12.5	8.5	10.5	13.5	11.5	12.5	16.0	10.0	13.0	10.5	6.5	8.5
9	15.5	9.0	12.0	14.0	11.0	12.5	15.5	10.0	13.0	8.5	5.0	7.0
10	12.5	9.5	10.5	14.5	10.0	12.5	15.0	10.0	12.5	8.0	6.5	7.0
11	14.0	8.0	11.0	17.5	11.5	14.5	15.0	10.0	12.5	9.0	6.0	7.5
12	13.5	8.5	10.5	19.5	12.5	16.0	16.0	10.0	13.0	8.5	6.0	7.5
13	11.5	8.5	9.5	17.0	14.0	15.0	15.0	11.0	13.0	7.5	7.0	7.0
14	12.5	8.0	10.0	14.0	12.5	13.5	16.0	10.5	13.0	9.5	6.0	7.5
15	11.0	8.5	9.5	13.0	11.0	12.5	15.0	10.0	12.5	9.0	5.0	7.0
16	13.5	8.0	10.5	12.5	11.0	12.0	15.0	9.0	12.0	8.0	4.5	6.5
17	13.5	8.5	11.0	14.5	10.0	12.0	13.5	9.0	11.5	7.0	3.5	5.5
18	11.0	8.0	9.5	12.5	10.5	11.5	15.5	11.0	13.0	6.5	2.5	4.5
19	9.5	8.0	9.0	12.0	9.5	11.0	14.5	10.5	12.5	6.5	2.5	4.5
20	11.5	7.5	9.0	11.0	10.0	10.5	13.5	9.0	11.0	5.5	4.0	4.5
21	14.5	7.5	11.0	10.5	9.5	10.0	13.5	8.0	11.0	8.0	5.5	6.5
22	13.5	9.0	11.5	11.0	9.5	10.5	13.5	8.5	11.0	8.0	7.0	7.5
23	15.5	9.0	12.5	13.0	10.5	11.5	12.5	7.5	10.0	7.5	6.5	7.0
24	13.5	10.0	12.0	13.0	11.0	12.0	12.0	9.5	10.5	7.5	7.0	7.5
25	13.5	10.5	12.0	15.0	10.5	13.0	12.0	7.0	9.5	8.5	7.5	8.0
26	14.5	11.0	13.0	16.0	11.0	13.5	10.5	6.5	9.0	9.5	8.0	8.5
27	14.5	11.5	13.0	15.0	10.5	13.0	9.5	8.5	9.0	8.0	6.5	7.5
28	17.0	11.5	14.0	14.5	9.5	12.5	12.0	8.5	10.0	6.5	5.0	5.5
29	18.0	12.5	15.0	12.5	10.0	10.5	12.0	9.5	10.5	5.0	2.5	4.0
30	17.5	12.5	15.0	11.5	9.5	10.5	12.0	8.0	10.0	4.0	1.5	3.0
31	---	---	---	11.5	10.0	11.0	10.5	7.0	9.0	---	---	---
MONTH	18.0	7.0	11.2	19.5	9.5	12.8	16.0	6.5	11.5	11.5	1.5	7.0

15243900 SNOW RIVER NEAR SEWARD

LOCATION.--Lat 60°17′42″, long 149°20′38″, in NE¼ SW¼ sec. 6, T. 2 N., R. 1 E. (Seward B-7 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, on left bank, 0.5 mi below the Alaska Railroad bridge, 3.0 mi upstream from the mouth at Kenai Lake, and 13.5 mi north of Seward.

DRAINAGE AREA.--128 mi^2 (revision pending).

PERIOD OF RECORD.--August to September of 1970, 1974, 1977 and April 1997 to current year.

GAGE.--Water stage recorder. Elevation of gage is 470 ft above sea level, from topographic map. Prior to April 9, 1998 at site 0.5 mi upstream at different datum.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Glacier-dammed lake outburst flood about August 31, 1967, 55,000 ft^3/s from rating curve extended above 27,000 ft^3/s, gage-height 42.60 ft from floodmarks, site and datum then in use.

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	e850	323	e130	e460	109	69	44	372	1320	3490	2500	1820
2	e1100	310	e130	e400	116	68	44	415	1460	3320	3470	1680
3	e850	288	e130	e320	128	69	47	453	1490	3030	4510	1520
4	e800	289	e120	e220	134	72	55	509	1550	3040	4530	1530
5	e1000	280	e120	e220	127	70	58	574	1770	3350	3760	1400
6	939	265	e110	e220	125	70	57	588	1990	3280	2990	1350
7	783	263	e100	e190	126	70	58	694	2610	3310	2600	1300
8	785	247	e100	e160	120	65	61	744	3680	3360	2490	1190
9	711	237	e110	e140	112	62	61	741	3170	3400	2510	1000
10	627	e190	e120	e130	106	53	63	706	2920	3070	2380	938
11	564	e180	e120	e130	100	53	67	674	2560	2820	2330	889
12	518	e170	e110	e140	91	52	70	734	2480	3210	2570	820
13	483	e180	e110	e130	87	51	83	885	2300	3460	2840	1050
14	436	e180	e110	e120	77	51	99	916	2220	3350	3110	1130
15	407	e170	e100	e110	83	54	119	841	2200	3500	2880	903
16	407	e160	e100	e100	89	56	149	944	1970	4150	2330	814
17	408	e160	e100	e100	85	57	168	988	2030	4620	2170	732
18	669	e150	e100	e100	82	61	174	995	1980	3820	2060	642
19	789	e150	e110	e100	82	64	181	1060	2100	3250	1990	582
20	631	e160	e110	e95	83	51	215	1030	2240	2900	1900	552
21	546	e150	e280	e95	80	50	335	946	2010	3210	1760	693
22	485	e140	e1200	e95	78	49	290	878	1930	4180	1720	1050
23	446	e140	e900	e95	e80	48	230	840	1950	3810	1560	1430
24	413	e130	e750	e95	79	47	209	864	2110	3200	1460	2060
25	400	e130	e650	e90	75	45	203	856	2390	2770	1410	1910
26	387	e120	e800	e90	75	45	203	899	2630	2690	1330	1720
27	381	e120	e950	e90	73	e45	222	1010	3270	2660	1400	1420
28	349	e110	e540	e90	71	e45	251	1090	3640	2510	1460	1060
29	344	e120	e430	110	70	e45	274	1210	3640	2490	1870	826
30	320	e130	e460	111	---	e45	323	1330	3560	2610	2100	685
31	307	---	e460	105	---	43	---	1300	---	2470	1890	---
TOTAL	18135	5642	9660	4651	2743	1725	4413	26086	71170	100330	73880	34696
MEAN	585	188	312	150	94.6	55.6	147	841	2372	3236	2383	1157
MAX	1100	323	1200	460	134	72	335	1330	3680	4620	4530	2060
MIN	307	110	100	90	70	43	44	372	1320	2470	1330	552
AC-FT	35970	11190	19160	9230	5440	3420	8750	51740	141200	199000	146500	68820

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2000, BY WATER YEAR (WY)#

MEAN	1124	307	168	93.8	108	105	192	768	2152	3162	2970	3052
MAX	2506	514	312	150	188	220	277	841	2443	3281	5598	6294
(WY)	1999	1998	2000	2000	1998	1998	1998	2000	1998	1998	1977	1974
MIN	279	188	87.3	57.0	42.0	39.2	81.8	615	1780	2866	1764	1157
(WY)	1998	2000	1999	1999	1999	1999	1999	1999	1999	1999	1998	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1970 - 2000#	
ANNUAL TOTAL	345185		353131			
ANNUAL MEAN	946		965		1015	
HIGHEST ANNUAL MEAN					1092	1999
LOWEST ANNUAL MEAN					965	2000
HIGHEST DAILY MEAN	6570	Sep 18	4620	Jul 17	23800	Sep 20 1974
LOWEST DAILY MEAN	a36	Mar 3	43	Mar 31	a36	Mar 3 1999
ANNUAL SEVEN-DAY MINIMUM	37	Feb 26	44	Mar 27	37	Feb 26 1999
INSTANTANEOUS PEAK FLOW			4980	Jul 17	b26400	Sep 20 1974
INSTANTANEOUS PEAK STAGE			9.74	Jul 17	c40.75	Sep 20 1974
ANNUAL RUNOFF (AC-FT)	684700		700400		735300	
10 PERCENT EXCEEDS	2720		2890		3510	
50 PERCENT EXCEEDS	323		414		789	
90 PERCENT EXCEEDS	40		69		62	

\# See Period of Record, partial years used in monthly summary statistics
a Mar. 3 and Mar. 4
b Result of release of stored water from glacier-dammed lake
c Site and datum then in use
e Estimated

15258000 KENAI RIVER AT COOPER LANDING

LOCATION.--Lat 60°29′34″, long 149°48′28″, in SE¼ sec. 28, T. 5 N., R. 3 W. (Seward B-8 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, Chugach National Forest, on right bank 10 ft downstream from bridge on Sterling Highway, 0.9 mi upstream from Bean Creek, 0.9 mi east of Cooper Landing, and at Kenai Lake outlet.

DRAINAGE AREA.--634 mi^2.

PERIOD OF RECORD.--May 1947 to current year.

REVISED RECORDS.--WSP 2136: l964 (M).

GAGE.--Water-stage recorder. Datum of gage is 419.92 ft above sea level (levels by Alaska Department of Transportation). See WSP 2136 for history of changes prior to August 28, 1965. August 28, 1965 to January 21, 1974, at site 10 ft upstream at present datum. January 22, 1974 to September 30, 1981, non-recording gage at site 40 ft upstream at present datum.

REMARKS.--No estimated daily discharges. Records good. Diversion from Cooper Lake to Kenai Lake above gage through Cooper Lake power plant began May 1961. No diversions occurred from May to September 2000. Rain gage at station. GOES satellite telemetry and telephone modem at station.

COOPERATION.--Records of diversion provided by Chugach Electric Association.

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	4910	1690	996	1520	884	647	583	958	3210	7880	6050	3640
2	4760	1610	995	1480	898	647	576	1000	3360	8060	6000	3630
3	4650	1540	986	1430	922	648	571	1050	3500	8000	6250	3580
4	4440	1470	975	1400	905	658	564	1120	3670	7960	6640	3480
5	4270	1430	946	1360	897	660	555	1190	3900	8000	6960	3400
6	4140	1410	925	1310	883	657	552	1270	4210	8080	6940	3230
7	3960	1400	902	1290	860	657	547	1360	4590	8170	6780	3110
8	3840	1360	879	1280	844	657	546	1460	5250	8230	6580	2960
9	3690	1320	860	1230	829	655	540	1550	5970	8240	6340	2860
10	3530	1280	848	1180	816	657	537	1640	6470	8160	6130	2770
11	3350	1250	825	1140	809	657	533	1740	6750	7960	5910	2680
12	3150	1250	807	1100	784	655	528	1820	6890	7800	5810	2580
13	2990	1210	790	1050	770	656	529	1940	6890	7850	5770	2520
14	2830	1210	779	1030	758	656	523	2040	6850	7870	5800	2480
15	2690	1180	764	992	747	659	528	2150	6800	7890	5900	2440
16	2550	1170	760	966	741	658	546	2240	6690	8030	5840	2360
17	2490	1190	760	948	731	659	558	2340	6590	8370	5630	2260
18	2440	1190	757	944	723	656	577	2430	6490	8590	5480	2210
19	2460	1190	742	925	712	668	602	2520	6390	8470	5240	2130
20	2480	1190	740	892	704	665	618	2590	6310	8190	5060	2050
21	2410	1180	826	882	697	653	662	2640	6230	7910	4860	2030
22	2380	1170	974	869	691	639	698	2680	6130	7890	4650	1990
23	2290	1170	1100	855	686	628	728	2700	6030	7980	4500	2120
24	2230	1140	1160	843	685	614	753	2690	5990	7910	4250	2410
25	2140	1140	1240	829	672	607	774	2680	6020	7640	3990	2720
26	2100	1110	1360	827	668	591	796	2670	6140	7290	3760	2990
27	2070	1080	1510	839	670	586	818	2700	6400	7000	3630	3160
28	2000	1050	1590	851	661	582	846	2760	6830	6740	3470	3230
29	1900	1030	1630	856	656	583	876	2860	7270	6560	3460	3200
30	1840	1010	1610	854	---	600	910	2980	7610	6360	3510	3110
31	1750	---	1560	868	---	589	---	3090	---	6190	3610	---
TOTAL	92730	37620	31596	32840	22303	19804	18974	64858	175430	241270	164800	83330
MEAN	2991	1254	1019	1059	769	639	632	2092	5848	7783	5316	2778
MAX	4910	1690	1630	1520	922	668	910	3090	7610	8590	6960	3640
MIN	1750	1010	740	827	656	582	523	958	3210	6190	3460	1990
MED	2550	1190	925	966	747	655	574	2240	6270	7960	5770	2740
AC-FT	183900	74620	62670	65140	44240	39280	37630	128600	348000	478600	326900	165300

ADJUSTED TO EXCLUDE DIVERSION FROM COOPER LAKE

MEAN	2868	1110	916	986	629	464	452	2092	5848	7783	5316	2778
CFSM	4.52	1.75	1.44	1.56	0.99	0.73	0.71	3.30	9.22	12.3	8.39	4.38
IN	5.21	1.95	1.67	1.79	1.07	0.84	0.79	3.81	10.29	14.16	9.67	4.89
AC-FT	176330	66030	56350	60600	36160	28530	26880	128600	348000	478600	326900	165300

15258000 KENAI RIVER AT COOPER LANDING--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2000, BY WATER YEAR (WY) #

MEAN	3289	1805	1128	793	644	509	543	1909	5365	6953	6358	5238
MAX	8955	4877	3469	2807	2066	1122	1071	3508	10010	10480	11430	11490
(WY)	1980	1958	1986	1981	1981	1977	1980	1990	1953	1980	1977	1967
MIN	1264	654	364	310	251	208	262	658	3268	4868	3651	2629
(WY)	1956	1951	1951	1951	1949	1951	1952	1952	1972	1996	1969	1969

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1947 - 2000#	
ANNUAL TOTAL	1069805		985555			
ANNUAL MEAN	2931		2693		2896	
ANNUAL MEAN	*2797		*2615		*2823	
HIGHEST ANNUAL MEAN					4499	1977
LOWEST ANNUAL MEAN					2102	1969
HIGHEST DAILY MEAN	9330	Sep 23	8590	Jul 18	22500	Sep 21 1974
LOWEST DAILY MEAN	453	Apr 17	523	Apr 14	100	Mar 28 1964
ANNUAL SEVEN-DAY MINIMUM	464	Apr 12	531	Apr 9	190	Mar 15 1951
INSTANTANEOUS PEAK FLOW			8650	Jul 18	a23100	Sep 21 1974
INSTANTANEOUS PEAK STAGE			12.04	Jul 18	17.18	Sep 21 1974
INSTANTANEOUS LOW FLOW			510	Apr 14	b.00	Mar 27 1964
ANNUAL RUNOFF (AC-FT)	2122000		1955000		2098000	
ANNUAL RUNOFF (AC-FT)	*2025000		*1898280		*2045000	
ANNUAL RUNOFF (CFSM)	*4.41		*4.12		*4.45	
ANNUAL RUNOFF (INCHES)	*59.87		*56.12		*60.47	
10 PERCENT EXCEEDS	7070		6790		6950	
50 PERCENT EXCEEDS	1360		1530		1650	
90 PERCENT EXCEEDS	483		656		410	

\# See Period of Record and Remarks; partial years used in monthly statistics. Values shown on this page are unadjusted for inflow from diversion, unless otherwise noted
* Adjusted to account for inflow from diversion, see Remarks
a Result of release of stored water from glacier-dammed lake at head of unnamed glacier in the Snow River Basin
b No flow, Mar. 27 and Mar. 28, 1964, caused by earthquake

15261000 COOPER CREEK AT MOUTH NEAR COOPER LANDING

LOCATION.--Lat 60°28′50″, long 149°52′50″, in NW¼ SW¼ sec. 31, T. 5 N., R. 3 W. (Seward B-8 quad), Hydrologic Unit 19020302 Kenai Peninsula Borough,on left bank, approximately 0.5 mi upstream from mouth, and 1.5 mi west of Cooper Landing.

DRAINAGE AREA.--48.6 mi^2.

WATER DISCHARGE RECORDS

PERIOD OF RECORD.--October 1957 to January 1965, August 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 450 ft above sea level, from topographic map. From October 1957 to January 1965, 0.4 mi upstream at different datum.

REMARKS.--Records good except October 1-7, which are fair; and estimated daily discharges, which are poor. Since July 1959, entire flow from 31.8 mi^2 of drainage area has been regulated by dam at Cooper Lake outlet. No spilling since 1959 except for period May 1961 to October 1962. GOES satellite telemetry at station.

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	58	e32	e16	e14	e13	e9.5	e8.5	41	89	89	54	36
2	94	e32	e16	e14	e13	e9.5	e8.5	42	91	86	62	35
3	82	e32	e16	e14	e13	e9.0	e8.5	45	88	87	67	33
4	69	e30	e16	e14	e13	e9.0	e9.0	e45	94	86	69	32
5	69	e30	e15	e14	e12	e9.0	e9.0	e46	109	102	58	31
6	63	e28	e15	e14	e12	e8.5	e9.5	e50	101	96	50	31
7	60	e28	e15	e14	14	e8.0	e9.5	e52	149	92	48	29
8	62	e26	e15	15	13	e8.5	e9.5	e54	136	87	51	28
9	59	e26	e15	15	13	e8.5	e9.5	e56	120	89	47	27
10	56	e25	e15	15	12	e8.5	e10	e59	119	84	45	32
11	54	e24	e15	14	13	e8.5	e10	61	121	77	43	31
12	52	e24	e15	14	12	e8.5	e10	68	123	83	42	29
13	50	e24	e15	14	12	e8.5	e11	77	121	89	44	35
14	44	e23	e15	14	e11	e8.5	e11	74	124	87	44	34
15	e44	e23	e15	14	e11	e8.5	e11	69	121	89	43	32
16	45	e22	e15	14	e11	e8.5	e11	68	117	97	39	31
17	46	e21	e15	14	e11	e8.5	e12	78	118	92	37	30
18	53	e20	e15	14	e11	e8.5	e12	79	109	75	37	28
19	55	20	e15	13	e11	e8.5	e12	78	111	66	38	27
20	53	19	e15	14	e11	e8.5	e12	77	107	62	39	27
21	51	18	e15	14	e10	e8.5	e13	76	94	65	39	29
22	46	e17	e19	14	e10	e8.5	e13	72	84	67	39	34
23	44	e17	e18	14	e10	e8.5	e14	67	86	63	37	40
24	e42	e17	e17	e14	e10	e8.5	e15	66	94	58	36	56
25	40	e17	e16	e14	e10	e8.5	16	66	98	56	35	54
26	38	e17	e15	e13	e10	e8.5	18	71	101	56	33	50
27	38	e17	e15	e13	e10	e8.5	23	73	114	55	35	45
28	e34	e17	e14	e13	e10	e8.5	27	78	112	53	34	41
29	e34	e17	e14	e13	e10	e8.5	33	84	104	53	40	38
30	e34	e16	e14	e13	---	e8.5	39	90	97	55	42	36
31	e34	---	e14	e13	---	e8.5	---	88	---	55	38	---
TOTAL	1603	679	475	430	332	266.5	414.5	2050	3252	2351	1365	1041
MEAN	51.7	22.6	15.3	13.9	11.4	8.60	13.8	66.1	108	75.8	44.0	34.7
MAX	94	32	19	15	14	9.5	39	90	149	102	69	56
MIN	34	16	14	13	10	8.0	8.5	41	84	53	33	27
AC-FT	3180	1350	942	853	659	529	822	4070	6450	4660	2710	2060

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2000, BY WATER YEAR (WY)#

MEAN	79.0	55.0	25.6	20.1	14.2	12.2	19.5	105	205	158	89.7	82.0
MAX	264	285	82.9	58.9	32.4	28.0	50.3	219	412	326	226	309
(WY)	1958	1958	1958	1958	1958	1958	1958	1961	1958	1961	1961	1961
MIN	20.7	11.9	10.0	8.00	6.43	4.50	9.00	42.6	73.7	68.1	38.0	21.6
(WY)	1964	1964	1964	1964	1999	1999	1960	1964	1963	1960	1963	1963

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1958 - 2000#	
ANNUAL TOTAL	13891.0		14259.0			
ANNUAL MEAN	38.1		39.0		73.6	
HIGHEST ANNUAL MEAN					a174	1958
LOWEST ANNUAL MEAN					29.9	1963
HIGHEST DAILY MEAN	174	Sep 18	149	Jun 7	ab810	Sep 22 1961
LOWEST DAILY MEAN	c4.0	Mar 19	8.0	Mar 7	c4.0	Mar 19 1999
ANNUAL SEVEN-DAY MINIMUM	4.0	Mar 19	8.4	Mar 6	4.0	Mar 19 1999
INSTANTANEOUS PEAK FLOW			203	Jun 7	ab841	Sep 21 1961
INSTANTANEOUS PEAK STAGE			10.91	Jun 7	b2.10	Sep 21 1961
INSTANTANEOUS LOW FLOW			d		f3.10	Mar 1 1960
ANNUAL RUNOFF (AC-FT)	27550		28280		53280	
10 PERCENT EXCEEDS	91		89		205	
50 PERCENT EXCEEDS	26		30		34	
90 PERCENT EXCEEDS	5.0		9.5		10	

See Period of Record, partial years used in monthly statistics
a Includes natural flow or spill from area upstream from Cooper Lake dam
b Caused by release of water behind log jam upstream. Site and datum then in use
c From Mar. 19 to Apr. 14
d Not determined. See lowest daily mean
e Estimated
f Caused by temporary storage behind ice jam upstream (observed)

15261000 COOPER CREEK AT MOUTH NEAR COOPER LANDING--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August 1998 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set for 15 minute recording interval.

REMARKS.-- Record missing May 11-12 when probe was out of the water. Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the average for the stream by cross section on May 16. No variations were found within the cross section. No variation was found between mean stream temperature and sensor temperature. Heavy shore ice occurs near the gage.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 11.5°C, July 14, 1999; Minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 10.0°C, August 12; Minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER-ATURE WATER (DEG C) (00010)	GAGE HEIGHT (FEET) (00065)	STREAM WIDTH (FT) (00004)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLER TYPE (CODE) (84164)	SAM-PLING METHOD, CODES (82398)
MAY								
16...	1300	67	3.5	10.26	32.0	1.00	8010	10
16...	1302	67	3.5	10.26	32.0	6.00	8010	10
16...	1304	67	3.5	10.26	32.0	11.0	8010	10
16...	1306	67	3.5	10.26	32.0	16.0	8010	10
16...	1308	67	3.5	10.26	32.0	21.0	8010	10
16...	1310	67	3.5	10.26	32.0	26.0	8010	10

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	5.0	4.5	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	5.0	4.0	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	4.5	2.5	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	5.0	3.5	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	5.0	3.5	4.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	5.0	3.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	4.0	2.5	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	3.5	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	3.5	2.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	3.5	2.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	3.5	1.5	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	3.0	1.5	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	1.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	1.5	.0	.5	.5	.0	.5	.0	.0	.0	.0	.0	.0
16	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	3.5	.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	4.5	3.5	4.0	1.0	.0	.5	.0	.0	.0	.0	.0	.0
19	4.0	2.0	3.0	1.5	1.0	1.0	.0	.0	.0	.0	.0	.0
20	2.5	1.5	2.0	1.0	.5	.5	.0	.0	.0	.0	.0	.0
21	2.0	1.0	1.5	1.0	.5	.5	.0	.0	.0	.0	.0	.0
22	1.5	.0	1.0	.5	.0	.0	.0	.0	.0	.5	.0	.0
23	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.5	.0	.0
24	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	1.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	.0	.0	.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	5.0	.0	2.0	1.5	.0	.1	.0	.0	.0	.5	.0	.0

15261000 COOPER CREEK AT MOUTH NEAR COOPER LANDING--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	1.0	.5	1.0	.5	.0	.0	3.0	1.0	2.0
2	.0	.0	.0	1.0	.0	.5	1.5	.5	1.0	3.0	1.0	2.0
3	.0	.0	.0	1.0	1.0	1.0	1.5	.5	1.0	3.5	1.0	2.0
4	.5	.0	.0	1.5	.5	1.0	2.0	1.0	1.5	3.5	1.0	2.0
5	.5	.5	.5	1.0	.5	1.0	1.5	1.0	1.0	3.5	1.0	2.0
6	.5	.5	.5	1.0	.5	.5	2.0	.5	1.0	4.0	1.0	2.0
7	1.0	.5	.5	.5	.0	.0	2.0	.5	1.0	3.5	1.5	2.0
8	1.0	.5	.5	1.0	.0	.5	2.0	.5	1.0	4.5	1.0	2.5
9	1.0	.5	1.0	.5	.0	.0	1.5	.0	.5	4.0	1.0	2.0
10	1.0	.5	.5	.0	.0	.0	2.0	.5	1.0	4.0	1.0	---
11	1.0	.5	.5	1.0	.0	.5	2.0	1.0	1.5	---	---	---
12	1.0	.5	1.0	1.5	1.0	1.0	2.5	1.0	1.5	---	---	---
13	.5	.0	.0	1.5	1.0	1.0	2.5	1.0	1.5	5.0	1.0	2.5
14	.0	.0	.0	1.5	1.0	1.0	2.5	.5	1.0	3.0	1.5	2.5
15	.0	.0	.0	1.5	1.0	1.0	2.5	1.0	1.5	3.5	2.0	2.5
16	.5	.0	.5	1.5	1.0	1.0	2.5	1.0	1.5	4.5	1.5	3.0
17	1.0	.5	.5	1.5	1.0	1.0	2.0	1.0	1.5	4.0	2.0	3.0
18	1.0	.5	1.0	1.0	.5	.5	2.5	1.0	1.5	4.0	2.0	3.0
19	1.0	1.0	1.0	1.0	.5	.5	2.0	1.0	1.5	4.5	1.5	3.0
20	1.0	1.0	1.0	1.5	.5	1.0	2.0	1.0	1.5	4.5	1.5	3.0
21	1.0	.5	.5	1.5	1.0	1.0	2.0	1.0	1.5	3.5	1.0	2.5
22	.5	.0	.0	1.5	.5	1.0	2.5	1.0	1.5	4.5	2.0	3.0
23	.0	.0	.0	1.5	1.0	1.0	2.5	.5	1.5	4.5	2.0	3.0
24	.5	.0	.0	1.5	.5	1.0	2.5	.0	1.0	5.0	1.5	3.0
25	.5	.0	.0	1.5	1.0	1.0	3.0	1.0	1.5	4.5	1.5	3.0
26	.0	.0	.0	1.5	.0	1.0	3.5	1.0	1.5	5.5	1.5	3.0
27	1.0	.0	.5	.0	.0	.0	3.5	1.0	2.0	6.0	1.5	3.5
28	1.0	.5	1.0	.0	.0	.0	3.0	.5	1.5	6.5	1.5	3.5
29	1.0	1.0	1.0	.0	.0	.0	3.0	1.0	2.0	6.0	1.5	3.5
30	---	---	---	.0	.0	.0	3.0	1.0	2.0	5.5	2.0	3.5
31	---	---	---	.0	.0	.0	---	---	---	4.5	2.5	3.5
MONTH	1.0	.0	.4	1.5	.0	.6	3.5	.0	1.3	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	2.5	4.0	7.5	4.0	5.5	9.5	5.5	7.0	7.5	6.0	6.5
2	7.0	2.0	4.0	7.5	4.0	6.0	8.0	6.5	7.5	6.5	4.0	5.5
3	7.0	2.0	4.0	7.5	4.0	6.0	9.5	6.5	8.0	7.0	4.5	6.0
4	7.0	2.0	4.5	8.5	5.0	6.0	8.5	6.0	7.0	7.0	4.5	6.0
5	7.0	2.5	4.5	6.5	5.0	5.5	9.0	4.5	6.5	6.5	4.0	5.5
6	6.0	2.5	4.0	8.0	4.5	6.0	9.0	5.0	7.0	6.5	5.0	5.5
7	4.5	3.0	3.5	8.0	4.0	6.0	8.5	4.5	6.5	6.5	4.0	5.5
8	5.0	2.5	3.5	7.5	5.0	6.0	9.5	5.5	7.0	6.0	4.0	5.0
9	5.5	2.5	4.0	6.5	4.5	5.5	9.0	5.0	7.0	5.5	2.5	4.0
10	5.5	2.5	4.0	7.0	4.5	5.5	9.5	5.0	7.0	5.5	4.5	5.0
11	5.5	2.5	4.0	7.5	5.0	6.0	9.5	5.5	7.5	6.5	4.5	5.0
12	6.5	2.5	4.0	9.0	5.0	6.5	10.0	6.0	8.0	6.0	3.5	4.5
13	5.5	3.0	4.5	7.0	5.0	6.0	9.5	6.5	8.0	6.0	4.5	5.5
14	7.0	3.5	4.5	8.0	5.5	6.5	9.5	6.5	8.0	6.5	4.5	5.5
15	6.0	2.5	4.0	7.0	5.0	6.0	8.0	4.5	6.5	6.0	3.0	4.5
16	5.5	3.0	4.5	6.5	5.5	6.0	8.5	4.5	6.5	5.0	2.5	4.0
17	6.0	3.5	4.5	6.5	4.5	5.5	9.0	5.0	7.0	4.5	2.0	3.5
18	7.0	2.0	4.5	6.5	4.5	5.5	8.5	7.0	7.5	3.5	1.5	2.5
19	5.0	3.5	4.5	7.5	4.5	6.0	8.5	6.5	7.0	5.0	2.0	3.5
20	6.0	3.0	4.5	6.5	5.0	5.5	8.0	4.5	6.5	6.0	3.0	4.5
21	7.5	3.0	5.0	6.0	5.0	5.5	7.5	5.5	6.5	7.5	5.5	6.5
22	7.0	4.0	5.0	8.0	5.0	6.0	7.5	5.5	6.5	7.5	6.0	6.5
23	8.5	3.0	5.5	7.5	4.0	6.0	7.0	3.5	5.5	6.5	5.5	6.0
24	8.0	3.5	5.5	7.5	5.0	6.0	7.0	5.0	6.0	6.5	5.5	6.0
25	6.0	4.0	5.0	9.0	5.0	6.5	7.0	5.0	6.0	6.5	5.5	6.0
26	7.5	4.0	5.5	9.0	5.5	7.0	7.0	3.0	5.0	6.0	4.5	5.5
27	6.5	4.0	5.0	8.0	4.5	6.5	7.0	5.5	6.5	4.5	3.0	3.0
28	6.5	4.0	5.5	7.0	5.5	6.0	8.0	6.0	7.0	3.0	1.5	2.5
29	6.0	4.0	5.0	7.5	5.0	6.0	8.0	6.0	7.0	2.0	.5	1.5
30	7.5	4.0	5.5	8.5	5.5	6.5	7.5	4.5	6.0	2.0	.5	1.0
31	---	---	---	7.0	5.5	6.5	7.5	3.5	5.5	---	---	---
MONTH	8.5	2.0	4.5	9.0	4.0	6.0	10.0	3.0	6.8	7.5	.5	4.7

15266110 KENAI RIVER BELOW SKILAK LAKE OUTLET NEAR STERLING

LOCATION.--Lat 60°28′00″, long 150°35′56″, in SW¼ NW¼ sec. 1, T. 4 N., R. 8 W. (Kenai B-2 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, on right bank, 3.5 mi downstream from Skilak Lake, 7 mi southeast of Sterling.

DRAINAGE AREA.--1,206 mi^2, revised.

WATER-DISCHARGE RECORDS

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

GAGE.--Water stage recorder. Elevation of gage is 240 ft above sea level, from topographic map.

REMARKS.--Records good except for estimated daily discharges, which are poor. Rain gage recorder at station. GOES satellite telemetry and phone modem at station.

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	9860	e5000	1980	e1750	1670	1180	1030	1370	3870	10300	11900	7890
2	9200	e5100	1940	e1750	1630	1170	1010	1390	3970	10600	12100	7850
3	8760	e5800	1890	e1750	1620	1160	1000	1430	4100	10900	12200	7750
4	8430	e6600	1850	e1750	1580	1150	997	1470	4250	11100	13000	7660
5	8040	e7900	1820	e1750	1580	1200	989	1540	4380	11400	13600	7580
6	7690	e9000	1780	e1750	1560	1140	972	1590	4640	11700	13900	7360
7	7360	e8900	1740	e1750	1540	1110	960	1670	4950	12000	14000	7130
8	7110	e7900	1700	e1750	1530	1100	955	1720	5230	12300	14000	6800
9	6860	7250	1660	e1750	1520	1090	979	1790	5650	12700	13700	6460
10	6570	6330	1630	e1750	1500	1080	950	1870	6180	12900	13300	6270
11	6290	5590	e1600	e1750	1480	1060	922	1950	6750	12900	12800	5990
12	6020	5030	e1550	e1750	1470	1060	918	2030	7330	12800	12300	5740
13	5800	4610	1550	e1750	1470	1070	920	2120	7780	12800	11900	5530
14	e5500	4230	e1500	e1750	1440	1070	915	2240	8150	12800	11600	5230
15	e5300	3920	e1450	e1750	1410	1060	925	2360	8520	13100	11500	5090
16	e5000	3640	e1450	e1750	1400	1040	952	2490	8740	13500	11300	4910
17	e4900	3410	e1450	e1700	1370	1050	955	2580	8900	13900	11200	4710
18	e4800	3220	e1400	e1700	1370	1090	958	2710	9090	14200	11000	4520
19	e4750	3080	e1410	e1700	1350	1060	1050	2790	9210	14400	10800	4340
20	4670	2930	1430	e1690	1340	1030	1040	2940	9070	14500	10500	4170
21	4580	2790	1570	e1690	1310	1040	1100	3020	9030	14400	10200	4140
22	4500	2670	1590	e1680	1290	1070	1100	3130	9000	14200	9900	3980
23	4450	2580	e1600	e1680	1270	1020	1130	3240	8950	14100	9550	4060
24	e4400	2490	e1650	1670	1250	1000	1150	3340	8950	13900	9230	4220
25	e4350	2400	e1700	1630	1230	995	1170	3400	8960	13700	8800	e4800
26	e4350	2320	1740	1670	1230	969	1190	3450	8930	13500	8560	e5000
27	4340	2240	1750	1650	1230	1000	1220	3490	9020	13200	8330	e5300
28	e4400	2160	e1750	e1660	1210	1030	1250	3540	9280	12900	8060	e5200
29	e4450	2100	e1750	1680	1210	1060	1280	3600	9660	12500	7930	e5100
30	e4600	2040	e1750	1700	---	1030	1320	3670	9990	12200	7850	e5000
31	e4700	---	e1750	1690	---	1040	---	3780	---	11900	7880	---
TOTAL	182030	133230	51380	53190	41060	33224	31307	77710	222530	397300	342890	169780
MEAN	5872	4441	1657	1716	1416	1072	1044	2507	7418	12820	11060	5659
MAX	9860	9000	1980	1750	1670	1200	1320	3780	9990	14500	14000	7890
MIN	4340	2040	1400	1630	1210	969	915	1370	3870	10300	7850	3980
AC-FT	361100	264300	101900	105500	81440	65900	62100	154100	441400	788000	680100	336800
CFSM	4.87	3.68	1.37	1.42	1.17	.89	.87	2.08	6.15	10.6	9.17	4.69
IN.	5.61	4.11	1.58	1.64	1.27	1.02	.97	2.40	6.86	12.26	10.58	5.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)#

MEAN	6378	3479	1742	1361	1130	960	1093	2455	7779	12780	11510	9314
MAX	7498	4441	2040	1716	1416	1072	1241	2637	9795	13940	12350	12320
(WY)	1998	2000	1998	2000	2000	2000	1998	1998	1998	1998	1997	1997
MIN	5763	2830	1528	1164	891	870	995	2223	6156	11960	10310	5659
(WY)	1999	1999	1999	1999	1998	1998	1999	1999	1997	1999	1998	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000#	
ANNUAL TOTAL	1878418		1735631			
ANNUAL MEAN	5146		4742		4972	
HIGHEST ANNUAL MEAN					5180	1998
LOWEST ANNUAL MEAN					4742	2000
HIGHEST DAILY MEAN	a14400	Aug 8	14500	Jul 20	15800	Jul 9 1998
LOWEST DAILY MEAN	901	Mar 13	915	Apr 14	776	Mar 13 1998
ANNUAL SEVEN-DAY MINIMUM	908	Mar 10	929	Apr 10	792	Mar 9 1998
INSTANTANEOUS PEAK FLOW			14600	Jul 20	b15900	Sep 28 1997
INSTANTANEOUS PEAK STAGE			12.12	Jul 20	12.51	Jul 9 1998
INSTANTANEOUS LOW FLOW			c898	Apr 11	d765	Mar 12 1998
ANNUAL RUNOFF (AC-FT)	3726000		3443000		3602000	
ANNUAL RUNOFF (CFSM)	4.27		3.93		4.12	
ANNUAL RUNOFF (INCHES)	57.94		53.54		56.01	
10 PERCENT EXCEEDS	12200		11900		12700	
50 PERCENT EXCEEDS	2790		2980		3720	
90 PERCENT EXCEEDS	951		1060		972	

\# See Period of Record, partial year used in monthly statistics
a Aug. 8 and Aug. 9
b Sep. 28, 1997 and Jul. 9, 1998
c Apr. 11 to Apr. 14
d Mar. 12 and Mar. 13, 1998
e Estimated

15266110 KENAI RIVER BELOW SKILAK LAKE OUTLET NEAR STERLING--Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1998 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set at 15-minute recording interval.

REMARKS.--No record October 16, 18, 24-26, 28 to November 8, 18-24, and September 24-30 due to recorder problems. Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the river average by cross section on October 6 and July 31. No variation was found within the cross-sections. No variation was found between mean stream temperature and temperature at the sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum observed, 15.0°C, July 7, but may have been higher during period of missing record in June and July 1999; minimum, 0.0°C on many days in winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 14.5°C, August 14; minimum, 0.0°C on many days in winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
OCT											
06...	1810	360	36.0	7440	10	56	7.5	7.5	738	12.3	106
06...	1812	360	108	7440	10	54	7.3	7.5	738	12.5	108
06...	1814	360	180	7440	10	54	7.3	7.5	738	12.2	105
06...	1816	360	252	7440	10	54	7.3	7.5	738	12.2	105
06...	1818	360	324	7440	10	54	7.3	7.5	738	12.2	105
JUL											
31...	1830	370	37.0	12000	10	64	8.1	11.5	755	11.9	110
31...	1832	370	111	12000	10	65	8.0	11.5	755	11.8	109
31...	1834	370	185	12000	10	65	8.0	11.5	755	12.1	112
31...	1836	370	259	12000	10	65	8.0	11.5	755	12.0	111
31...	1838	370	333	12000	10	65	8.0	11.5	755	12.0	111

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	QUALITY ASSUR-ANCE DATA INDICA-TOR CODE (99111)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
OCT												
06...	1800	9	9	360	9.84	7440	10	3053	1001	--	54	7.5
NOV												
02...	1715	9	9	355	9.01	5610	10	3053	1001	--	53	7.3
JAN												
06...	1245	9	9	348	--	1750	10	3045	1001	--	64	7.0
MAR												
08...	1430	9	9	368	6.49	1100	10	3045	1001	--	60	7.8
MAY												
02...	1300	9	9	394	6.79	1300	10	3045	1001	--	61	7.8
JUN												
06...	1900	9	9	343	8.67	4800	10	3053	1001	--	62	8.1
21...	1020	9	9	375	10.36	9040	10	3053	1002	--	62	7.8
29...	0930	9	7	375	10.55	9590	10	3053	1002	30	64	8.0
JUL												
07...	1300	9	9	375	11.37	11800	10	3053	1001	--	65	7.9
31...	1850	9	9	370	11.32	12000	10	3053	1001	--	66	8.0
SEP												
07...	1330	9	9	336	9.64	6570	10	3053	1001	--	65	7.7
07...	1345	9	9	336	--	6570	70	3053	1099	--	65	7.7

15266110 KENAI RIVER BELOW SKILAK LAKE OUTLET NEAR STERLING--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
OCT												
06...	7.5	738	12.3	106	27	9.58	.79	.9	24	.8	29	24
NOV												
02...	4.0	753	12.4	96	27	9.60	.71	1.0	21	.8	25	21
JAN												
06...	.0	737	14.7	104	26	9.20	.70	1.0	21	.9	25	20
MAR												
08...	1.5	761	13.2	94	25	9.08	.68	1.0	21	.8	25	20
MAY												
02...	5.0	738	12.5	101	27	9.60	.74	1.0	25	.8	30	24
JUN												
06...	12.0	753	11.4	107	28	9.93	.72	1.0	23	.8	27	22
21...	7.5	760	12.6	105	27	9.64	.70	1.0	25	.7	30	24
29...	10.0	754	11.4	102	28	9.83	.72	1.1	23	.8	27	22
JUL												
07...	11.5	756	13.2	122	28	9.99	.72	1.0	23	.7	27	22
31...	11.5	755	12.0	111	28	10.1	.73	1.1	35	.6	41	33
SEP												
07...	10.5	752	11.2	102	28	9.96	.72	1.0	23	.8	26	22
07...	10.5	752	11.2	102	--	--	--	--	--	--	--	--

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT												
06...	6.1	.6	<.1	2.9	40	37	.001	.168	<.002	<.10	.13	E.007
NOV												
02...	6.1	.7	<.1	2.8	38	35	<.001	.185	<.002	.12	<.10	E.005
JAN												
06...	6.3	.6	<.1	2.8	36	35	<.001	.164	.004	<.10	<.10	E.006
MAR												
08...	5.5	.8	<.1	2.8	38	34	<.001	.157	<.002	E.10	<.10	E.006
MAY												
02...	5.1	.8	<.1	2.6	34	36	.002	.160	.009	<.10	<.10	E.005
JUN												
06...	5.6	.7	<.1	2.6	34	35	<.001	.151	.011	<.10	E.10	E.007
21...	5.6	.7	<.1	2.8	42	37	<.001	.166	.019	E.10	<.10	E.004
29...	5.6	.8	<.1	2.8	38	36	.004	.160	.132	<.10	<.10	<.008
JUL												
07...	6.2	.8	<.1	2.8	38	36	.001	.143	<.002	<.10	<.10	<.008
31...	6.8	.7	<.1	2.8	39	44	.001	.149	.039	<.10	<.10	<.008
SEP												
07...	6.4	.7	<.1	2.9	41	36	.001	.167	.021	E.10	<.10	.009
07...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)
OCT												
06...	<.006	<.001	<10	E1	4	80	--	.41	--	<.2	--	--
NOV												
02...	<.006	<.001	<10	<2	2	30	--	.37	--	<.2	--	--
JAN												
06...	<.006	<.001	<10	<2	3	14	--	.38	--	<.2	--	--
MAR												
08...	<.006	.001	E10	E1	7	21	90	.46	--	<.2	--	--
MAY												
02...	<.006	<.001	E10	<2	5	18	98	.50	--	<.2	--	--
JUN												
06...	<.006	<.001	<10	<2	4	52	--	.54	--	<.2	--	--
21...	<.006	<.001	<10	<2	3	73	88	.43	--	<.2	--	--
29...	<.006	<.001	<10	<2	3	78	--	.46	--	<.2	--	--
JUL												
07...	<.006	.001	<10	<2	1	32	--	.57	--	<.2	--	--
31...	<.006	.002	E10	<2	4	130	75	.39	--	<.2	--	--
SEP												
07...	<.006	.001	<10	<2	5	89	88	.41	--	<.2	--	--
07...	--	--	--	--	--	--	--	.51	<.1	.1	.1	.039

15266110 KENAI RIVER BELOW SKILAK LAKE OUTLET NEAR STERLING--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	7.5	8.0	---	---	---	2.0	1.0	1.5	.5	.0	.0
2	8.0	7.5	7.5	---	---	---	2.5	1.0	2.0	.0	.0	.0
3	8.0	7.0	7.5	---	---	---	2.0	1.0	1.5	.5	.0	.0
4	7.5	7.0	7.5	---	---	---	2.0	1.5	1.5	.5	.0	.0
5	8.0	7.5	7.5	---	---	---	2.0	1.0	1.5	.0	.0	.0
6	8.0	7.0	7.5	---	---	---	1.0	.5	.5	.0	.0	.0
7	7.5	7.0	7.5	---	---	---	1.5	1.0	1.0	.5	.0	.5
8	7.5	7.0	7.0	---	---	---	1.0	.0	.5	.5	.0	.0
9	8.0	7.0	7.0	4.0	3.5	4.0	1.0	.5	.5	.0	.0	.0
10	7.5	6.5	7.0	3.5	3.0	3.5	.5	.0	.0	.0	.0	.0
11	7.0	6.5	6.5	3.5	3.0	3.5	.0	.0	.0	.0	.0	.0
12	6.5	6.5	6.5	3.0	2.5	3.0	.0	.0	.0	.0	.0	.0
13	7.0	6.5	6.5	3.5	3.0	3.5	.5	.0	.0	.0	.0	.0
14	7.0	6.0	6.5	4.0	3.5	3.5	.0	.0	.0	.0	.0	.0
15	6.0	5.0	5.5	3.5	2.5	3.5	.0	.0	.0	.0	.0	.0
16	---	---	---	3.0	2.5	2.5	.0	.0	.0	.0	.0	.0
17	6.5	6.0	6.0	3.0	1.0	2.0	.0	.0	.0	.0	.0	.0
18	---	---	---	---	---	---	.0	.0	.0	.0	.0	.0
19	6.5	6.0	6.0	---	---	---	.0	.0	.0	.0	.0	.0
20	6.5	5.5	6.0	---	---	---	.0	.0	.0	.0	.0	.0
21	6.0	5.5	5.5	---	---	---	.0	.0	.0	.0	.0	.0
22	6.0	5.5	5.5	---	---	---	.5	.0	.0	.0	.0	.0
23	5.5	5.0	5.5	---	---	---	.0	.0	.0	.0	.0	.0
24	---	---	---	---	---	---	.0	.0	.0	.5	.0	.0
25	---	---	---	3.0	2.0	2.5	.0	.0	.0	.0	.0	.0
26	---	---	---	2.5	1.5	2.0	1.0	.0	.5	.0	.0	.0
27	5.0	4.5	4.5	1.5	1.0	1.5	1.0	.5	1.0	.5	.0	.0
28	---	---	---	2.0	1.5	1.5	1.0	.5	.5	.0	.0	.0
29	---	---	---	2.0	1.5	2.0	.5	.0	.0	.0	.0	.0
30	---	---	---	2.0	1.5	1.5	.5	.0	.0	.0	.0	.0
31	---	---	---	---	---	---	.5	.5	.5	.0	.0	.0
MONTH	---	---	---	---	---	---	2.5	.0	.4	.5	.0	.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	1.5	.5	1.0	4.5	2.0	3.0	7.0	5.0	6.0
2	.0	.0	.0	1.5	.5	.5	4.5	1.5	3.0	7.5	4.0	5.5
3	.5	.0	.0	2.0	.5	1.0	4.5	2.5	3.0	8.5	3.5	6.0
4	.5	.5	.5	2.0	1.0	1.5	4.0	1.5	2.5	8.5	4.0	6.0
5	.5	.5	.5	1.5	.5	.5	5.5	1.5	3.0	7.0	3.5	5.5
6	1.0	.5	1.0	2.5	.5	1.5	5.5	1.5	3.0	8.5	4.0	6.0
7	1.0	.5	.5	2.5	.5	1.0	5.5	1.5	3.0	10.0	5.0	7.0
8	1.0	.5	.5	2.0	.5	1.0	7.0	1.5	3.5	8.0	5.5	6.5
9	1.0	.5	1.0	1.5	.5	.5	4.5	2.0	3.0	7.0	4.0	5.5
10	.5	.0	.5	1.0	.0	.5	5.5	1.5	3.0	7.0	4.0	5.5
11	.5	.0	.5	1.5	.5	1.0	5.5	2.0	3.0	7.0	4.0	5.5
12	1.0	.5	.5	1.5	.5	1.0	6.0	2.0	4.0	7.5	4.0	5.5
13	.5	.0	.5	2.0	.5	1.0	7.0	3.0	4.5	7.5	4.5	6.0
14	.5	.0	.0	2.0	.5	1.5	7.0	2.5	4.5	6.5	4.5	5.5
15	.5	.0	.0	3.0	1.5	2.0	8.0	3.0	5.0	6.5	5.0	5.5
16	.5	.0	.0	2.5	1.5	2.0	8.5	3.0	5.0	7.0	5.0	6.0
17	1.0	.5	.5	4.0	1.5	2.0	6.0	3.0	4.0	6.0	5.0	5.5
18	1.0	.5	.5	2.0	.5	1.5	5.5	3.0	4.0	6.5	5.0	5.5
19	1.5	.5	1.0	3.5	1.0	2.0	6.5	2.5	4.0	6.5	4.5	5.5
20	1.5	1.0	1.0	4.0	2.0	2.5	5.0	2.5	3.5	6.5	4.5	5.5
21	1.5	.5	1.0	4.0	1.5	2.5	5.0	2.0	3.5	6.0	5.0	5.5
22	1.0	.0	.5	3.5	1.5	2.5	7.0	2.0	3.5	6.5	5.0	5.5
23	1.5	.5	.5	3.0	1.5	2.0	8.5	2.0	4.5	7.5	5.0	6.0
24	1.0	.0	.5	3.0	1.0	2.0	8.5	2.5	5.0	7.0	4.5	6.0
25	1.0	.0	.5	3.0	.5	2.0	5.5	3.0	4.0	7.5	5.0	6.5
26	1.5	.0	.5	.5	.0	.5	8.0	2.5	5.0	8.0	5.0	6.5
27	.5	.0	.5	1.0	.0	.5	7.5	3.0	5.0	8.0	4.5	6.5
28	1.5	.5	1.0	1.5	.0	.5	9.5	3.0	5.5	8.0	4.5	6.5
29	2.0	.5	1.0	2.5	.5	1.5	10.0	3.5	6.0	8.5	4.0	6.0
30	---	---	---	4.0	1.0	2.0	9.0	4.5	6.5	6.5	4.0	5.5
31	---	---	---	3.5	1.0	2.0	---	---	---	6.0	4.5	5.0
MONTH	2.0	.0	.5	4.0	.0	1.4	10.0	1.5	4.0	10.0	3.5	5.8

15266110 KENAI RIVER BELOW SKILAK LAKE OUTLET NEAR STERLING--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	4.5	6.0	11.5	10.0	10.5	12.0	11.0	11.0	10.5	9.5	10.0
2	7.5	4.0	6.0	13.5	8.5	11.0	11.0	10.0	10.0	10.5	9.0	9.5
3	7.5	4.5	6.0	13.5	12.0	13.0	11.0	10.0	10.5	10.5	9.5	10.0
4	9.0	5.0	6.5	12.5	10.0	12.0	11.0	10.0	10.5	10.5	9.0	10.0
5	12.5	7.5	10.0	11.5	8.0	9.0	11.5	9.5	10.5	11.0	9.5	10.5
6	12.0	9.5	11.0	12.0	9.5	11.0	11.5	10.5	11.0	11.0	10.0	10.5
7	10.5	9.0	10.0	12.5	9.0	10.0	12.0	10.0	11.0	10.5	9.5	10.0
8	10.0	8.5	9.0	11.5	8.5	10.0	13.0	10.0	11.5	10.0	9.0	9.5
9	10.5	9.0	9.5	12.0	10.5	11.0	12.5	11.0	12.0	10.5	9.0	9.5
10	10.0	8.0	9.0	12.0	10.5	11.5	13.0	11.0	11.5	10.0	9.0	9.5
11	10.5	9.0	9.5	13.5	11.5	12.5	12.5	10.5	11.5	10.0	9.0	9.5
12	10.5	9.0	10.0	13.5	12.5	13.0	14.0	11.5	12.5	9.5	8.5	9.0
13	10.0	8.5	9.0	13.5	12.5	13.0	14.0	12.0	13.0	9.5	9.0	9.0
14	10.0	8.5	9.0	12.5	10.5	11.5	14.5	12.5	13.5	10.0	9.0	9.0
15	9.0	7.0	8.0	13.0	10.0	11.5	12.5	10.0	11.0	10.0	8.5	9.0
16	9.5	8.5	9.0	11.5	10.0	10.5	11.5	9.5	10.0	10.0	8.5	9.5
17	10.0	8.0	8.5	10.0	8.5	9.0	11.5	9.5	10.5	10.0	8.5	9.0
18	10.0	7.5	8.5	10.0	8.0	9.0	13.0	11.5	12.0	9.5	8.0	9.0
19	9.0	8.0	8.5	10.5	9.5	10.0	12.5	12.5	12.5	9.5	8.0	8.5
20	9.0	7.5	8.0	11.0	9.5	10.0	13.0	12.0	12.5	9.0	8.0	8.5
21	8.5	7.5	8.0	11.0	10.5	10.5	13.0	12.0	12.5	10.0	8.5	9.0
22	9.0	7.0	8.0	11.5	10.0	10.5	12.5	11.5	12.0	9.5	8.5	9.0
23	10.0	7.0	8.5	11.5	10.5	11.0	12.5	11.5	12.0	9.0	8.5	---
24	11.5	9.0	10.5	11.5	10.5	10.5	12.5	11.5	12.5	---	---	---
25	11.0	10.0	10.5	12.0	10.0	11.0	12.5	11.5	12.0	---	---	---
26	10.5	9.5	10.0	12.5	10.5	11.5	12.5	11.0	11.5	---	---	---
27	11.0	10.0	10.5	12.5	11.0	11.5	12.0	11.5	11.5	---	---	---
28	10.5	9.5	10.0	13.5	10.5	12.0	12.0	---	---	---	---	---
29	11.0	9.0	10.0	13.0	11.5	12.5	11.5	10.5	11.5	---	---	---
30	11.5	10.5	11.0	12.0	11.0	11.5	10.5	9.0	9.5	---	---	---
31	---	---	---	11.5	11.0	11.5	10.0	8.5	9.0	---	---	---
MONTH	12.5	4.0	8.9	13.5	8.0	11.1	14.5	---	---	---	---	---

15266150 KENAI RIVER BELOW MOUTH OF KILLEY RIVER NEAR STERLING

LOCATION.--Lat 60°29′28″, long 150°37′50″, in NW¼ SW¼ SE¼ sec. 26, T. 5 N., R. 8 W. (Kenai B-2 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, on right bank, 1.5 mi downstream from Killey River, 4.5 mi southeast of Sterling.

DRAINAGE AREA.--1,496 mi^2.

PERIOD OF RECORD.--June 1997 to present.

GAGE.--Water stage recorder. Elevation of gage is 230 ft above sea level, from topographic map.

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

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	9870	4970	1930	e1900	e1750	1230	1170	1550	4340	11200	12400	8070
2	9340	5350	1900	e1900	e1750	1220	1180	1580	4500	11300	12700	8040
3	8930	5920	1860	e1900	1700	1220	1170	1610	4670	11600	13100	7890
4	8530	6870	1830	e1900	1620	1210	1170	1660	4760	11800	13900	7760
5	8150	8160	1800	e1900	1610	1230	1170	1720	4970	12300	14300	7610
6	7810	9270	1760	e1900	1590	1200	1170	1760	5280	12800	14400	7530
7	7470	9230	1720	e1900	1580	1180	1170	1830	5740	12900	14500	7420
8	7250	8170	1710	e1900	1570	1170	1160	1880	6520	13200	14400	7120
9	7010	7130	1710	e1800	1550	1160	1150	1940	6740	13600	14200	6880
10	6720	6250	1630	e1800	1530	1160	1170	2000	7040	13800	13700	6710
11	6420	5530	e1600	e1800	1510	1150	1160	2060	7530	13600	13100	6550
12	6160	4980	e1600	e1800	1500	1140	1140	2140	8090	13600	12600	6270
13	5950	4610	e1600	e1800	1500	1140	1160	2250	8430	13700	12300	6090
14	5700	4230	e1600	e1800	e1500	1150	1180	2390	8760	13800	12100	5980
15	5420	3890	e1600	e1800	e1450	1150	1210	2490	9090	14200	11900	5780
16	5240	3570	e1600	e1800	e1450	1150	1260	2610	9250	14800	11600	5620
17	5060	3340	e1600	e1800	1410	1140	1290	2710	9330	15400	11400	5380
18	5090	3140	e1600	e1800	1400	1140	1270	2850	9470	15300	11200	5170
19	5040	3000	e1600	e1800	1390	1160	1310	2940	9610	15100	11100	4970
20	4920	2870	e1600	e1800	1370	1170	1320	3110	9500	15000	10800	4800
21	4790	2720	e1650	e1800	1350	1150	1370	3180	9370	14900	10500	4810
22	4670	2600	e1650	e1800	1330	1150	1360	3270	9310	15000	10100	4920
23	4590	2510	e1700	e1800	1320	1170	1380	3390	9310	15000	9740	5030
24	4450	2430	e1700	e1800	1300	1150	1380	3520	9390	14500	9380	5370
25	4460	2330	e1750	e1800	1280	1140	1390	3570	9530	14300	9010	5600
26	4410	2240	e1800	e1800	1270	1130	1400	3630	9560	14000	8670	5690
27	4400	2160	e1800	e1800	1270	1120	1420	3700	9860	13700	8450	5760
28	4380	2080	1850	e1800	1260	1130	1440	3780	10300	13400	8260	5740
29	4390	2020	e1900	e1800	1260	1160	1470	3920	10700	13000	8160	5670
30	4540	1960	e1900	e1800	---	1190	1510	4070	11000	12700	8280	5650
31	4700	---	e1900	e1800	---	1170	---	4230	---	12400	8180	---
TOTAL	185860	133530	53450	56600	42370	36130	38100	83340	241950	421900	354430	185880
MEAN	5995	4451	1724	1826	1461	1165	1270	2688	8065	13610	11430	6196
MAX	9870	9270	1930	1900	1750	1230	1510	4230	11000	15400	14500	8070
MIN	4380	1960	1600	1800	1260	1120	1140	1550	4340	11200	8160	4800
AC-FT	368700	264900	106000	112300	84040	71660	75570	165300	479900	836800	703000	368700
CFSM	4.01	2.98	1.15	1.22	.98	.78	.85	1.80	5.39	9.10	7.64	4.14
IN.	4.62	3.32	1.33	1.41	1.05	.90	.95	2.07	6.02	10.49	8.81	4.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY) #

MEAN	6671	3649	1845	1419	1183	1040	1257	2702	8822	13830	12150	9823
MAX	7859	4451	2164	1826	1461	1165	1490	2962	11080	15300	13330	12930
(WY)	1998	2000	1998	2000	2000	2000	1998	1998	1998	1998	1997	1997
MIN	5995	2931	1646	1126	989	926	1010	2456	7701	12580	11020	6196
(WY)	2000	1999	1999	1999	1998	1999	1999	1999	1997	1999	1998	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000	
ANNUAL TOTAL	1950750		1833540			
ANNUAL MEAN	5345		5010		5303	
HIGHEST ANNUAL MEAN					5675	1998
LOWEST ANNUAL MEAN					5010	2000
HIGHEST DAILY MEAN	15100	Aug 8	15400	Jul 17	17300	Jul 8 1998
LOWEST DAILY MEAN	a800	Apr 6	1120	Mar 27	b800	Apr 19 1997
ANNUAL SEVEN-DAY MINIMUM	836	Apr 1	1140	Mar 22	836	Apr 1 1999
INSTANTANEOUS PEAK FLOW			16000	Jul 23	c17400	Jul 7 1998
INSTANTANEOUS PEAK STAGE			11.57	Jul 23	11.92	Jul 7 1998
INSTANTANEOUS LOW FLOW			1090	Mar 27	d	
ANNUAL RUNOFF (AC-FT)	3869000		3637000		3842000	
ANNUAL RUNOFF (CFSM)	3.57		3.35		3.55	
ANNUAL RUNOFF (INCHES)	48.51		45.59		48.17	
10 PERCENT EXCEEDS	12800		12500		13500	
50 PERCENT EXCEEDS	2890		3060		4150	
90 PERCENT EXCEEDS	950		1180		1100	

\# See Period of Record, partial year used in monthly statistics
a Apr. 6 to Apr. 7
b Apr. 19, 1997, and Apr. 6 to Apr. 7, 1999
c Jul. 7 to Jul. 8
d Not determined, see lowest daily mean.
e Estimated

15266300 KENAI RIVER AT SOLDOTNA

LOCATION.--Lat 60°28′39″, long 151°04′46″, in W½ SW¼ sec. 32, T. 5 N., R. 10 W. (Kenai B-3 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, near center of span on downstream side of bridge on Sterling Highway, 1.0 mi southwest of Soldotna.

DRAINAGE AREA.--1,951 mi^2, revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1965 to current year.

GAGE.--Water-stage recorder. Datum of gage is 35.34 ft above sea level. Prior to May 1, 1997, non-recording gage at same site and datum.

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

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	10900	5100	e2200	e1900	e1800	e1300	e1400	2440	4360	11600	12900	8300
2	10300	5420	e2200	e1900	e1800	e1300	e1400	2390	4450	11700	13300	8280
3	9730	5980	2120	e1900	e1700	e1300	e1400	2430	4610	11900	13600	8250
4	9380	6820	2080	e1900	e1700	e1300	e1400	2460	4880	12200	14100	8050
5	8970	8170	e2050	e1900	e1700	e1300	e1400	2430	5140	12600	14600	8000
6	8580	9490	e2000	e1900	e1700	e1300	e1400	2490	5360	13200	14700	7770
7	8160	9800	e1900	e1900	e1700	e1300	e1400	2550	5800	13200	14700	7470
8	7810	8750	e1900	e1900	e1700	e1300	1450	2510	6510	13400	14700	7170
9	7530	7600	e1800	e1800	e1700	e1300	1460	2540	6800	13700	14500	6850
10	7210	6590	e1800	e1800	e1600	e1300	e1500	2530	7020	13900	14100	6790
11	6980	5850	e1800	e1800	e1600	e1300	e1500	2610	7530	14100	13700	6730
12	6860	5470	e1800	e1800	e1600	e1300	e1500	2690	8120	14100	13300	6420
13	6490	5070	e1700	e1800	e1600	e1300	e1600	2830	8490	14100	13000	6240
14	6060	4640	e1700	e1800	e1600	e1300	e1600	2950	8860	13900	12700	6100
15	5810	4180	e1700	e1800	e1600	e1300	e1600	3070	9210	14200	12600	5800
16	5800	3830	e1700	e1800	e1600	e1300	e1700	3240	9450	14700	12100	5600
17	5540	3570	e1700	e1800	e1500	e1300	e1700	3280	9550	15400	12000	5340
18	5890	3510	e1700	e1800	e1500	e1300	e1800	3360	9710	15400	12000	5050
19	5930	3410	e1700	e1800	e1500	e1300	e1800	3420	9950	15400	11700	4880
20	5700	3300	e1700	e1800	e1500	e1300	e1900	3510	9850	15300	11400	4730
21	5670	3010	e1700	e1800	e1500	e1300	e1900	3700	9680	15300	11000	4850
22	5340	2850	e1800	e1800	e1500	e1300	e2000	3780	9670	15500	10700	5000
23	5140	2720	e1800	e1800	e1400	e1300	e2000	3720	9690	15300	10200	5190
24	4850	2690	e1800	e1800	e1400	e1300	e2100	3850	9840	15200	9920	5550
25	5080	2530	e1900	e1800	e1400	e1300	e2200	3890	9970	14900	9440	5890
26	4930	2430	e1900	e1800	e1400	e1300	2240	3970	10100	14700	9040	6040
27	4820	e2350	e1900	e1800	e1400	e1300	2290	4040	10300	14400	8940	6030
28	4660	e2300	e1900	e1800	e1400	e1300	2350	4090	10900	14000	8780	5960
29	4630	e2250	e2000	e1800	e1400	e1300	2400	4130	11400	13400	8600	5820
30	4750	e2200	e2000	e1800	---	e1400	2440	4110	11600	13200	8450	5730
31	4870	---	e2000	e1800	---	e1400	---	4250	---	13000	8300	---
TOTAL	204370	141880	57950	56600	45500	40500	52830	99260	248800	432900	369070	189880
MEAN	6593	4729	1869	1826	1569	1306	1761	3202	8293	13960	11910	6329
MAX	10900	9800	2200	1900	1800	1400	2440	4250	11600	15500	14700	8300
MIN	4630	2200	1700	1800	1400	1300	1400	2390	4360	11600	8300	4730
AC-FT	405400	281400	114900	112300	90250	80330	104800	196900	493500	858700	732100	376600
CFSM	3.38	2.42	.96	.94	.80	.67	.90	1.64	4.25	7.16	6.10	3.24
IN.	3.90	2.71	1.10	1.08	.87	.77	1.01	1.89	4.74	8.25	7.04	3.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2000, BY WATER YEAR (WY)#

MEAN	7230	3462	2217	1824	1607	1332	1549	3137	8420	13360	14380	11670
MAX	14370	7335	5469	4290	4575	2696	2836	5645	12570	18740	24890	21280
(WY)	1970	1980	1977	1981	1981	1981	1980	1990	1980	1977	1977	1995
MIN	2852	1631	1132	823	822	800	812	1950	4940	9696	8706	5873
(WY)	1993	1974	1976	1976	1976	1976	1972	1973	1972	1973	1969	1969

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1965 - 2000#	
ANNUAL TOTAL	2113270		1939540			
ANNUAL MEAN	5790		5299		5896	
HIGHEST ANNUAL MEAN					8810	1977
LOWEST ANNUAL MEAN					4002	1973
HIGHEST DAILY MEAN	a15500	Aug 8	15500	Jul 22	41400	Sep 24 1995
LOWEST DAILY MEAN	900	Apr 6	b1300	Mar 1	c770	Apr 1 1966
ANNUAL SEVEN-DAY MINIMUM	936	Apr 1	1300	Mar 1	774	Apr 1 1966
INSTANTANEOUS PEAK FLOW			15900	Jul 22	42200	Sep 24 1995
INSTANTANEOUS PEAK STAGE			10.17	Jul 22	14.50	Sep 24 1995
INSTANTANEOUS PEAK STAGE					d22.62	Jan 18 1969
INSTANTANEOUS LOW FLOW					770	Apr 1 1966
ANNUAL RUNOFF (AC-FT)	4192000		3847000		4271000	
ANNUAL RUNOFF (CFSM)	2.97		2.72		3.02	
ANNUAL RUNOFF (INCHES)	40.29		36.98		41.06	
10 PERCENT EXCEEDS	13800		13100		14100	
50 PERCENT EXCEEDS	3300		3460		3250	
90 PERCENT EXCEEDS	1000		1400		1170	

\# See Period of Record; partial years used in monthly statistics
a Aug. 8 and Aug. 9
b Mar. 1 to Mar. 29
c Apr. 1 to Apr. 4, 1966
d Backwater from ice
e Estimated

15266300 KENAI RIVER AT SOLDOTNA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1952-53, 1955-56, 1958, 1967-74, 1977, 1979-81, 1998 to current year.

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: August 1979 to December 1979, August to November 1999.
WATER TEMPERATURE: October 1998 to current year.

INSTRUMENTATION:--Electronic water-temperature recorder set at 15-minute recording interval.

REMARKS:--No record from January 31 to February 2 due to malfunctioning probe. Records represent water temperature at the sensor within 0.5ºC. Temperature at the sensor was compared with the river average by cross section on November 3, and July 6. No variation was found within the cross-section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD:--
SEDIMENT CONCENTRATIONS: Maximum daily mean observed, 59 mg/L August 10, 1999; minimum daily mean observed, 1 mg/L September 7, 9, and October 23, 1979.
SEDIMENT LOADS: Maximum daily observed, 2,420 tons (2190 tonnes) August 10, 1999; minimum daily observed, 23 tons (21 tonnes) September 9, 1979.
WATER TEMPERATURE: Maximum 15.0ºC, August 14, 2000; minimum 0.0ºC on many days during winter periods.

EXTREMES FOR CURRENT YEAR:--
SEDIMENT CONCENTRATIONS: Maximum observed, 31 mg/L October 9, 1999; minimum observed 3 mg/L November 3, 1999.
SEDIMENT LOADS: Maximum daily observed, 630 tons (573 tonnes) October 9, 1999; minimum daily observed, 48 tons (43 tonnes) November 3, 1999.
WATER TEMPERATURE: Maximum 15.0ºC, August 14; minimum 0.0ºC on many days in winter.

EXTREMES OUTSIDE PERIOD OF DAILY RECORD:--
SEDIMENT CONCENTRATIONS: Maximum observed, 151 mg/L July 14, 1979; minimum observed 1 mg/L March 24, 1971.
SEDIMENT LOADS: Maximum daily observed, 9,290 tons (8,430 tonnes) September 9, 1977; minimum daily observed, 3.1 tons (2.8 tonnes) March 24, 1971.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
NOV								
03...	1420	95.0	54	7.3	2.0	758	14.0	102
03...	1422	145	54	7.3	2.0	758	14.1	102
03...	1424	195	54	7.3	2.0	758	14.3	104
03...	1426	245	54	7.3	2.0	758	14.0	102
03...	1428	295	53	7.2	2.0	758	13.9	101
JUL								
06...	1455	22.0	60	7.8	10.5	764	11.7	105
06...	1456	67.0	60	7.8	11.0	764	11.7	106
06...	1457	112	60	7.8	11.0	764	11.8	107
06...	1458	157	61	7.8	11.0	764	11.6	105
06...	1459	202	61	7.8	11.0	764	11.8	107
06...	1500	247	62	7.8	11.0	764	11.7	106

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	QUALITY ASSUR-ANCE DATA INDICA-TOR CODE (99111)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
OCT												
07...	1115	9	9	255	8.35	8020	10	3039	1001	--	67	7.5
NOV												
03...	1400	9	9	245	7.76	5810	10	3053	1001	--	60	7.2
JAN												
05...	1330	9	9	380	--	1890	20	3045	1001	--	72	7.1
MAR												
07...	1500	9	9	190	--	1320	10	3045	1001	10	70	7.5
MAY												
03...	0945	9	9	224	6.10	2340	10	3053	1001	--	75	7.8
JUN												
07...	1315	9	9	229	7.62	6080	10	3053	1001	--	60	7.7
20...	1300	9	9	320	8.76	9700	10	3054	1002	--	62	7.8
28...	1510	9	9	355	9.07	10900	10	3053	1002	--	61	8.1
JUL												
06...	1310	9	9	268	9.62	13700	10	3053	1001	--	62	7.8
AUG												
01...	1550	9	9	320	9.56	13400	10	3053	1001	--	65	7.8
SEP												
06...	1330	9	9	316	8.21	7740	10	3053	1001	--	65	7.3
06...	1345	9	9	316	8.21	7740	70	3053	1099	--	65	7.3
27...	1310	9	9	250	7.68	6010	10	3053	1002	--	65	7.8
27...	1325	9	9	250	7.68	6010	70	3053	1099	--	65	7.8

15266300 KENAI RIVER AT SOLDOTNA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
OCT												
07...	7.0	747	11.8	99	27	9.62	.84	1.4	23	.8	28	23
NOV												
03...	2.0	758	14.1	102	28	9.82	.82	1.2	23	.7	28	23
JAN												
05...	.0	755	14.3	99	28	9.62	1.03	1.5	27	.9	30	25
MAR												
07...	.0	760	12.1	83	28	9.57	1.09	1.5	23	.8	27	22
MAY												
03...	5.5	754	11.9	95	29	9.38	1.28	1.7	28	.9	35	28
JUN												
07...	10.0	752	10.4	93	27	9.37	.84	1.4	24	.8	28	28
20...	8.5	758	12.7	109	27	9.36	.77	1.2	24	.7	28	23
28...	10.5	758	10.3	93	25	8.81	.73	1.1	22	.8	25	21
JUL												
06...	11.0	764	11.7	106	26	9.14	.73	1.1	23	.6	27	22
AUG												
01...	11.5	764	11.8	108	27	9.67	.77	1.2	22	.6	26	22
SEP												
06...	10.0	749	10.1	91	29	10.1	.81	1.3	24	.8	27	23
06...	10.0	749	10.1	91	--	--	--	--	--	--	--	--
27...	8.0	757	11.1	94	26	8.92	.84	1.2	24	.9	28	23
27...	8.0	757	11.1	94	--	--	--	--	--	--	--	--

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
OCT												
07...	5.9	.9	<.1	3.7	35	37	.002	.122	.003	E.10	<.10	.009
NOV												
03...	6.0	.9	<.1	3.5	39	37	<.001	.156	<.002	.13	<.10	E.006
JAN												
05...	6.0	.9	<.1	4.7	43	40	<.001	.165	<.002	E.10	<.10	.009
MAR												
07...	5.0	1.1	<.1	4.6	45	38	.001	.149	<.002	<.10	<.10	.008
MAY												
03...	4.9	1.3	<.1	5.4	48	43	.003	.144	.140	<.10	E.10	.021
JUN												
07...	5.7	.8	<.1	3.5	38	37	.001	.140	<.002	E.10	<.10	.018
20...	5.4	.8	<.1	3.3	41	36	.001	.148	<.002	.10	<.10	.018
28...	5.1	.7	<.1	3.2	37	33	.003	.138	.008	E.10	<.10	.036
JUL												
06...	5.8	.7	<.1	3.2	36	35	.001	.129	<.002	E.10	<.10	.016
AUG												
01...	6.4	.7	<.1	3.3	39	36	.001	.132	.004	E.10	<.10	.010
SEP												
06...	5.7	.8	<.1	3.3	42	37	.001	.160	.077	.16	E.10	.026
06...	--	--	--	--	--	--	--	--	--	--	--	--
27...	5.7	.9	<.1	3.9	38	37	.002	.160	.076	.15	.10	.047
27...	--	--	--	--	--	--	--	--	--	--	--	--

15266300 KENAI RIVER AT SOLDOTNA--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)
OCT												
07...	E.003	<.001	10	E1	4	87	--	1.2	--	.2	--	--
NOV												
03...	<.006	<.001	20	3	3	47	--	.61	--	<.2	--	--
JAN												
05...	E.004	.003	30	14	2	10	--	.75	--	<.2	--	--
MAR												
07...	<.006	.003	20	8	5	18	--	.92	--	<.2	--	--
MAY												
03...	.008	.004	180	24	10	63	84	2.3	--	.2	--	--
JUN												
07...	<.006	.001	20	6	24	394	82	.92	--	.2	--	--
20...	<.006	<.001	E10	3	19	498	67	.56	--	<.2	--	--
28...	<.006	<.001	E10	2	39	1150	79	.62	--	<.2	--	--
JUL												
06...	<.006	.002	E10	E2	40	1480	67	.55	--	<.2	--	--
AUG												
01...	<.006	.002	10	<2	12	434	71	.48	--	<.2	--	--
SEP												
06...	E.005	.005	10	2	20	418	68	.64	--	.2	--	--
06...	--	--	--	--	--	--	--	.58	<.1	.2	.2	.034
27...	.014	.012	20	E2	26	422	87	.85	--	.3	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	.066

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1998 TO SEPTEMBER 1999

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		AUGUST			SEPTEMBER	
1	13100	---	---	11100	10	300
2	13200	---	---	11100	15	450
3	13500	---	---	11400	---	---
4	13700	---	---	11300	---	---
5	14200	---	---	11300	---	---
6	14800	---	---	11200	---	---
7	15300	---	---	11000	---	---
8	15500	---	---	10800	---	---
9	15500	---	---	10500	---	---
10	15200	59	2420	10200	---	---
11	14900	22	885	9880	---	---
12	14800	---	---	9670	---	---
13	15200	---	---	10100	15	409
14	15000	---	---	10900	23	677
15	14700	---	---	11000	17	505
16	14600	---	---	11100	7	210
17	14300	---	---	11900	16	514
18	13900	---	---	13000	45	1580
19	13700	---	---	14300	52	2010
20	13500	---	---	14700	39	1550
21	13500	---	---	15000	29	1170
22	13300	---	---	15400	27	1120
23	13100	12	424	15100	29	1180
24	13000	---	---	14800	11	440
25	13000	---	---	14400	25	972
26	12800	---	---	13800	34	1270
27	12600	12	408	13200	21	748
28	12300	---	---	12600	17	578
29	11900	---	---	11700	13	411
30	11500	5	155	11200	15	454
31	11300	---	---	---	---	---
TOTAL	426900	---	---	363650	---	---

15266300 KENAI RIVER AT SOLDOTNA--Continued

SEDIMENT DISCHARGE, SUSPENDED (TONS/DAY), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)	MEAN DISCHARGE (CFS)	MEAN CONCEN-TRATION (MG/L)	SEDIMENT DISCHARGE (TONS/DAY)
		OCTOBER			NOVEMBER	
1	10900	15	441	5100	---	---
2	10300	17	473	5420	12	176
3	9730	15	394	5980	3	48
4	9380	---	---	6820	---	---
5	8970	9	218	8170	---	---
6	8580	---	---	9490	---	---
7	8160	8	176	9800	---	---
8	7810	26	548	8750	---	---
9	7530	31	630	7600	---	---
10	7210	9	175	6590	---	---
11	6980	23	433	5850	---	---
12	6860	9	167	5470	---	---
13	6490	10	175	5070	---	---
14	6060	12	196	4640	---	---
15	5810	9	141	4180	---	---
16	5800	12	188	3830	---	---
17	5540	16	239	3570	---	---
18	5890	---	---	3510	---	---
19	5930	25	400	3410	---	---
20	5700	15	231	3300	---	---
21	5670	16	245	3010	---	---
22	5340	9	130	2850	---	---
23	5140	13	180	2720	---	---
24	4850	9	118	2690	---	---
25	5080	7	96	2530	---	---
26	4930	11	146	2430	---	---
27	4820	---	---	e2350	---	---
28	4660	7	88	e2300	---	---
29	4630	12	150	e2250	---	---
30	4750	8	103	e2200	---	---
31	4870	14	184	---	---	---
TOTAL	204370	---	---	141880	---	---

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	7.5	8.0	3.5	2.5	3.0	.5	.0	.0	.5	.0	.0
2	8.0	7.0	7.5	3.0	2.0	2.5	1.0	.0	.0	.5	.0	.0
3	7.5	6.5	7.0	2.5	1.5	2.0	.5	.0	.5	.0	.0	.0
4	7.5	7.0	7.0	2.5	1.5	2.0	.5	.0	.0	.0	.0	.0
5	7.5	7.0	7.0	4.0	2.0	3.0	.5	.0	.0	.5	.0	.0
6	7.5	6.5	7.0	4.5	3.0	3.5	.5	.0	.0	.0	.0	.0
7	7.5	7.0	7.0	4.5	3.5	4.0	.5	.0	.0	.0	.0	.0
8	7.5	6.5	7.0	3.5	2.5	3.5	.5	.0	.0	.0	.0	.0
9	7.0	5.5	6.5	3.5	2.5	3.0	.5	.0	.0	.0	.0	.0
10	6.5	5.5	6.0	3.0	1.5	2.0	.5	.0	.0	.5	.0	.0
11	6.0	5.5	6.0	2.5	1.0	2.0	.5	.0	.0	.5	.0	.0
12	6.0	5.5	6.0	2.5	2.0	2.5	.0	.0	.0	.5	.0	.0
13	6.0	5.5	5.5	3.0	2.0	2.5	.5	.0	.0	.5	.0	.0
14	5.5	4.5	5.0	3.0	2.5	2.5	.5	.0	.0	.5	.0	.0
15	5.0	4.0	4.5	3.0	1.5	2.5	.5	.0	.0	.5	.0	.0
16	5.0	3.5	4.0	2.0	.5	1.0	.0	.0	.0	.5	.0	.0
17	5.5	4.5	5.0	2.0	1.0	1.5	.5	.0	.0	.5	.0	.0
18	5.5	5.0	5.0	2.5	1.5	2.0	.0	.0	.0	.0	.0	.0
19	5.5	5.0	5.0	2.0	1.5	2.0	.5	.0	.0	.5	.0	.0
20	5.0	4.0	4.5	2.0	1.5	2.0	.0	.0	.0	.0	.0	.0
21	5.0	4.0	4.5	2.0	1.5	2.0	.5	.0	.0	.0	.0	.0
22	4.5	3.5	4.0	2.0	1.5	2.0	.0	.0	.0	.0	.0	.0
23	4.5	3.5	4.0	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0
24	4.0	3.0	3.5	2.0	1.0	1.5	.5	.0	.0	.0	.0	.0
25	4.0	3.5	4.0	1.5	.0	.5	.0	.0	.0	.0	.0	.0
26	4.0	3.5	3.5	.5	.0	.0	.5	.0	.0	.5	.0	.0
27	4.0	3.0	3.5	.5	.0	.0	.0	.0	.0	.5	.0	.0
28	3.5	2.5	3.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
29	4.0	2.5	3.0	.5	.0	.0	.5	.0	.0	.5	.0	.0
30	3.5	2.5	3.5	.0	.0	.0	.5	.0	.0	.5	.0	.0
31	3.5	2.5	3.0	---	---	---	.5	.0	.0	---	---	---
MONTH	8.0	2.5	5.2	4.5	.0	1.9	1.0	.0	.0	---	---	---

15266300 KENAI RIVER AT SOLDOTNA--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	.0	.0	.0	2.0	.0	1.0	7.0	4.5	6.0
2	---	---	---	.0	.0	.0	3.5	1.0	2.0	7.0	4.0	5.5
3	.0	.0	.0	.0	.0	.0	4.0	1.0	2.5	8.0	4.0	6.0
4	.5	.0	.0	.0	.0	.0	4.0	2.0	3.0	9.0	5.0	7.0
5	.5	.0	.0	.0	.0	.0	3.5	1.0	2.5	8.5	5.0	6.5
6	.5	.0	.0	.0	.0	.0	3.5	1.0	2.5	8.5	4.5	6.5
7	.0	.0	.0	.0	.0	.0	4.0	1.5	2.5	9.0	6.0	7.5
8	.5	.0	.0	.0	.0	.0	4.0	1.0	2.5	9.0	6.0	7.5
9	.5	.0	.0	.0	.0	.0	4.5	1.0	2.5	8.5	5.5	7.0
10	.0	.0	.0	.0	.0	.0	3.5	1.5	2.5	8.5	5.0	6.5
11	.0	.0	.0	.0	.0	.0	3.5	1.5	2.5	8.5	5.0	7.0
12	.0	.0	.0	.0	.0	.0	5.0	2.0	3.0	9.0	5.5	7.0
13	.0	.0	.0	.0	.0	.0	4.0	2.5	3.0	9.0	6.0	7.5
14	.5	.0	.0	.0	.0	.0	5.0	1.5	3.0	8.0	6.5	7.0
15	.5	.0	.0	.0	.0	.0	5.0	1.5	3.5	7.0	5.5	6.5
16	.5	.0	.0	.0	.0	.0	4.5	2.0	3.0	7.5	5.5	6.5
17	.5	.0	.0	.0	.0	.0	3.5	2.0	2.5	7.5	6.0	7.0
18	.5	.0	.0	.0	.0	.0	3.5	1.5	2.5	7.5	5.5	6.5
19	.0	.0	.0	.0	.0	.0	4.0	1.5	2.5	7.0	6.0	6.5
20	.5	.0	.0	.0	.0	.0	4.0	1.5	2.5	7.0	5.0	6.5
21	.5	.0	.0	.0	.0	.0	4.0	1.5	3.0	7.5	5.5	6.5
22	.5	.0	.0	.5	.0	.0	4.5	1.5	2.5	7.0	5.5	6.5
23	.0	.0	.0	1.0	.0	.5	5.0	1.5	3.0	8.0	6.0	6.5
24	.0	.0	.0	1.5	.0	1.0	5.0	2.0	3.5	8.0	5.5	6.5
25	.5	.0	.0	1.5	.0	.5	5.0	2.5	4.0	8.5	5.5	7.0
26	.0	.0	.0	1.5	.5	1.0	6.5	2.5	4.0	9.0	6.0	7.5
27	.0	.0	.0	.5	.0	.0	7.0	3.5	5.0	9.5	6.5	8.0
28	.0	.0	.0	.5	.0	.0	7.0	3.5	5.0	9.5	7.0	8.0
29	.0	.0	.0	2.0	.0	.5	7.0	4.0	5.5	9.0	7.0	8.0
30	---	---	---	2.0	1.0	1.5	7.0	4.5	6.0	8.5	6.5	7.5
31	---	---	---	2.5	.5	1.5	---	---	---	7.5	6.0	6.5
MONTH	---	---	---	2.5	.0	.2	7.0	.0	3.1	9.5	4.0	6.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.5	6.0	7.5	12.5	9.5	11.0	12.0	10.5	11.0	10.5	9.5	10.0
2	9.0	7.0	8.0	12.0	9.0	10.5	11.5	10.0	10.5	10.5	9.0	9.5
3	9.0	7.0	8.0	13.5	11.5	12.5	11.5	10.0	10.5	11.0	9.5	10.0
4	9.5	7.0	8.5	13.0	11.0	12.0	11.5	10.0	10.5	10.5	8.5	9.5
5	12.5	8.0	10.0	12.5	9.0	10.0	11.0	9.5	10.5	10.5	9.5	10.0
6	12.0	10.5	11.0	12.0	9.5	10.5	12.0	10.0	11.0	11.0	10.0	10.0
7	11.5	9.5	10.5	12.0	9.0	10.5	12.0	11.0	11.5	10.5	9.0	10.0
8	10.0	8.5	9.0	12.0	8.5	10.0	12.5	9.5	11.0	10.5	8.5	9.5
9	10.5	8.5	9.5	12.0	10.0	11.5	13.0	11.0	12.0	10.0	8.0	9.0
10	10.0	8.5	9.0	12.0	10.0	11.0	12.5	10.0	11.5	10.0	9.0	9.5
11	11.0	8.5	9.5	13.5	10.5	12.0	12.5	10.0	11.5	10.5	8.5	9.5
12	11.5	9.0	10.0	14.0	12.5	13.0	13.0	10.5	12.0	10.0	8.5	9.0
13	10.5	8.5	9.5	13.5	12.5	13.0	14.0	12.0	13.0	9.0	8.5	9.0
14	10.5	8.5	9.5	13.0	11.5	12.0	15.0	11.0	13.0	10.0	8.5	9.0
15	10.0	7.5	8.5	12.5	10.0	11.0	14.0	10.5	12.0	9.5	8.5	9.0
16	10.0	8.0	9.0	12.0	10.0	11.0	11.0	9.5	10.5	9.5	8.0	8.5
17	10.0	8.0	9.0	10.5	9.0	10.0	11.5	9.0	10.5	9.0	7.5	8.5
18	9.5	7.5	9.0	9.5	8.0	9.0	12.5	10.5	11.5	9.0	7.0	8.0
19	9.5	8.0	8.5	11.5	9.0	10.0	13.5	11.5	12.5	8.5	7.5	8.0
20	9.0	7.5	8.5	10.5	9.0	10.0	13.0	11.0	12.0	8.5	7.5	8.0
21	10.0	7.5	9.0	11.0	10.0	10.5	13.0	11.0	12.0	10.0	8.5	9.0
22	9.5	7.5	8.5	11.5	10.0	10.5	12.5	11.0	11.5	9.5	9.0	9.5
23	11.0	8.0	9.5	12.0	10.5	11.0	12.5	10.5	11.5	9.5	8.0	8.5
24	12.0	8.5	10.5	11.5	10.5	11.0	12.5	11.0	12.0	9.0	8.0	8.5
25	12.0	10.0	11.0	12.0	10.0	11.0	12.5	11.0	12.0	9.0	8.5	8.5
26	11.0	10.0	10.5	12.5	10.0	11.5	12.0	10.5	11.5	9.0	8.0	8.5
27	11.0	10.0	10.5	12.5	10.5	11.5	12.0	11.0	11.5	8.5	7.5	8.0
28	11.0	9.5	10.5	12.5	10.0	11.5	12.0	11.0	11.5	7.5	7.0	7.0
29	10.5	9.0	10.0	12.5	12.0	12.5	12.0	11.0	11.5	7.0	6.0	6.5
30	12.0	9.5	11.0	12.5	11.0	11.5	11.0	9.5	10.0	7.0	6.0	6.5
31	---	---	---	12.0	11.0	11.5	10.0	8.0	9.0	---	---	---
MONTH	12.5	6.0	9.4	14.0	8.0	11.1	15.0	8.0	11.4	11.0	6.0	8.8

15271000 SIXMILE CREEK NEAR HOPE

LOCATION.--Lat 60°49′15″, long 149°25′31″, in SW¼ SE¼ sec. 34, T. 8 N., R. 1 W. (Seward D-7 quad), Kenai Peninsula Borough, Hydrologic Unit 19020302, Chugach National Forest, on left bank, 6.0 mi upstream from mouth at Turnagain Arm, and 10.6 mi southeast of Hope.

DRAINAGE AREA.-- 234 mi^2

PERIOD OF RECORD.--June 1979 to September 1990, August 1997 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above sea level, from topographic map. Prior to November 26, 1979, recording gage at site 0.8 mi downstream at different datum.

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

EXTREMES FOR CURRENT PERIOD.--Peak discharges greater than base discharge of 3,500 ft^3/s and maximum (*)

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jun. 8	2115	*4940	*12.14	Jul 05	1015	3530	11.45
Jun 28	0130	3770	11.58				

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	1180	535	e320	e340	e170	e150	137	652	2130	3170	1470	829
2	1280	482	e320	e340	e200	e150	137	703	2300	3080	1690	807
3	1180	395	e320	e320	e210	e160	140	750	2450	2930	1930	762
4	1130	505	e300	e300	e210	e150	147	847	2530	2960	2170	751
5	1260	536	e300	e300	e220	e140	148	873	2820	3290	1850	710
6	1170	539	e280	e280	e210	e140	146	901	3120	3070	1520	694
7	1090	518	e280	e280	e190	e140	144	1070	3610	2970	1400	667
8	1080	482	e280	e280	e190	e140	143	1170	4520	2930	1320	643
9	1040	450	e280	e260	e180	e140	143	1160	3890	2820	1330	611
10	987	373	e280	e260	e180	e140	145	1120	3240	2580	1250	659
11	939	e400	e280	e240	e170	e170	144	1110	3030	2410	1210	659
12	912	e400	e280	e240	e170	e160	143	1170	3220	2650	1300	613
13	868	e380	e280	e240	e160	e150	154	1310	3260	2780	1390	651
14	766	e400	e280	e220	e150	e150	175	1400	3100	2620	1600	687
15	732	e420	e280	e220	e160	e150	198	1450	3070	2530	1410	622
16	759	e380	e260	e220	e160	e150	226	1490	2820	2850	1130	599
17	755	e380	e260	e210	e170	e150	244	1580	2790	2940	1040	575
18	957	e360	e260	e210	e160	e150	252	1650	2720	2620	1040	551
19	1100	e360	e280	e210	e170	e145	261	1670	2760	2310	1060	535
20	980	e360	e300	e210	e170	e145	289	1630	2750	2070	1030	521
21	907	e360	e320	e200	e160	e145	390	1560	2550	2240	964	594
22	835	e360	e600	e200	e150	e140	378	1480	2560	2550	906	769
23	784	e340	e650	e200	e150	e140	353	1430	2710	2240	846	1030
24	725	e340	e550	e200	e160	e140	339	1460	2950	1990	798	1500
25	722	e320	e550	e190	e170	e140	335	1500	3140	1850	766	1290
26	694	e320	e480	e190	e160	e140	341	1560	3050	1830	731	1130
27	670	e300	e500	e190	e150	e140	381	1680	3390	1800	778	986
28	641	e300	e440	e190	e150	e140	458	1790	3480	1840	756	855
29	615	e320	e380	e190	e150	144	532	1930	3430	1720	928	752
30	580	e320	e380	e190	---	142	603	2120	3270	1690	1050	686
31	551	---	e360	e180	---	141	---	2130	---	1590	889	---
TOTAL	27889	11935	10930	7300	5000	4522	7626	42346	90660	76920	37552	22738
MEAN	900	398	353	235	172	146	254	1366	3022	2481	1211	758
MAX	1280	539	650	340	220	170	603	2130	4520	3290	2170	1500
MIN	551	300	260	180	150	140	137	652	2130	1590	731	521
AC-FT	55320	23670	21680	14480	9920	8970	15130	83990	179800	152600	74480	45100
CFSM	3.84	1.70	1.51	1.01	.74	.62	1.09	5.84	12.9	10.6	5.18	3.24
IN.	4.43	1.90	1.74	1.16	.79	.72	1.21	6.73	14.41	12.23	5.97	3.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000, BY WATER YEAR (WY)#

MEAN	904	422	263	216	172	156	253	1252	2647	2229	1294	1021
MAX	1777	654	353	528	306	240	397	1811	3600	3986	2699	1556
(WY)	1981	1980	2000	1981	1981	1984	1990	1981	1980	1980	1981	1999
MIN	500	221	198	133	113	106	119	748	1736	1166	760	607
(WY)	1998	1986	1999	1999	1999	1999	1985	1985	1989	1990	1990	1983

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

15271000 SIXMILE CREEK NEAR HOPE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1979 - 2000#	
ANNUAL TOTAL	335366		345418			
ANNUAL MEAN	919		944		914	
HIGHEST ANNUAL MEAN					1335	1980
LOWEST ANNUAL MEAN					675	1986
HIGHEST DAILY MEAN	4320	Jun 16	4520	Jun 8	7570	Jul 12 1980
LOWEST DAILY MEAN	a100	Mar 6	b137	Apr 1	80	cApr 1 1986
ANNUAL SEVEN-DAY MINIMUM	100	Mar 6	140	Mar 22	80	Apr 1 1986
INSTANTANEOUS PEAK FLOW			4940	Jun 8	d8070	Jul 2 1980
INSTANTANEOUS PEAK STAGE			12.14	Jun 8	13.22	Jul 2 1980
INSTANTANEOUS PEAK STAGE					f29.0	Nov 26 1979
ANNUAL RUNOFF (AC-FT)	665200		685100		661900	
ANNUAL RUNOFF (CFSM)	3.93		4.03		3.90	
ANNUAL RUNOFF (INCHES)	53.31		54.91		53.05	
10 PERCENT EXCEEDS	2410		2670		2390	
50 PERCENT EXCEEDS	522		563		558	
90 PERCENT EXCEEDS	110		150		140	

\# See Period of Record; partial years used in monthly statistics
a Mar. 6 to Mar. 17
b Apr. 1 and Apr. 2
c Apr. 1 to Apr. 9, 1986
d Peak discharge was probably greater sometime during the period, Nov. 26, 1979 to Jan. 9, 1980, during release from storage behind snow-avalanche dam upstream from former gage site
f Sometime between Nov. 26, 1979 and Jan. 9, 1980, during release from storage behind snow-avalanche dam upstream from former gage site, site and datum then in use

15272280 PORTAGE CREEK AT PORTAGE LAKE OUTLET NEAR WHITTIER

LOCATION.--Lat 60°47′07″, long 148°50′20″, in SW¼ NE¼ sec. 13, T. 8 N., R. 3 E. (Seward D-5 SW quad), Municipality of Anchorage, Hydrologic Unit 19020302, on left bank at lake outlet, 5.0 mi west of Whittier, 5.8 mi southeast of Portage, and 6.5 mi upstream from mouth.

DRAINAGE AREA.--40.5 mi^2.

PERIOD OF RECORD.--March 1989 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 95 ft above sea level, from topographic map.

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 12,500 ft^3/s, August 19, 1984 (elevation about 97.05 ft above sea level from USFS levels) by contracted-opening measurement of peak flow.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 4,600 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jul 22	1615	*4340	*6.99

No peaks greater than base discharge

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	593	151	e110	e160	e150	e110	183	231	440	1730	1760	1140
2	1800	139	e105	e180	e140	e110	152	284	483	1720	2590	1000
3	1260	128	e110	e180	e200	e150	131	274	507	1600	3820	905
4	1100	132	e120	e150	e180	175	116	255	542	1500	3650	867
5	1520	172	e120	e120	e240	156	104	260	578	1600	2770	837
6	1410	237	e100	e100	e500	133	95	243	662	1720	2060	1000
7	1050	340	e95	e110	e550	118	87	273	1150	1640	1680	981
8	801	302	e90	e110	e460	103	80	308	3170	1650	1490	866
9	687	249	e90	e100	e210	91	76	302	2960	1940	1510	719
10	594	208	e85	e95	e180	83	72	286	1910	1770	1440	729
11	548	181	e80	e90	e150	80	68	265	1280	1430	1380	845
12	473	e190	e80	e90	e140	79	66	256	1130	1340	1450	722
13	424	e340	e80	e80	e135	85	65	255	1140	1530	1610	1070
14	354	e390	e80	e75	e130	91	65	273	1280	1760	1880	1390
15	301	e350	e80	e70	e120	120	71	373	1270	1860	1820	952
16	290	e290	e75	e60	e110	160	79	512	1110	2870	1440	736
17	326	e250	e70	e60	e110	172	89	473	1030	4000	1220	587
18	739	e230	e70	e55	e120	158	119	484	1010	3480	1140	501
19	906	e280	e85	e55	e210	148	211	520	1890	2750	1110	438
20	659	e380	e90	e55	e260	153	366	478	2650	2060	1040	413
21	483	e380	e190	e55	e240	137	574	427	1940	2970	963	498
22	382	e320	e800	e55	e210	125	507	380	1330	4110	935	706
23	325	e290	e840	e60	e170	131	370	354	1070	3350	879	1010
24	274	e240	e480	e70	e150	125	286	332	1060	2270	823	1510
25	246	e180	e340	e75	e120	119	231	318	1160	1710	784	1690
26	234	e160	e360	e80	e110	111	197	314	1190	1500	748	1500
27	244	e140	e450	e70	e100	115	182	321	1380	1400	751	1140
28	229	e120	e380	e70	e110	109	172	329	1640	1400	773	835
29	212	e110	e280	e65	e120	161	167	344	1690	1920	1040	630
30	184	e105	e220	e60	---	237	173	386	1700	2630	1530	504
31	163	---	e170	e100	---	217	---	411	---	2220	1400	---
TOTAL	18811	6984	6325	2755	5625	4062	5154	10521	40352	65430	47486	26721
MEAN	607	233	204	88.9	194	131	172	339	1345	2111	1532	891
MAX	1800	390	840	180	550	237	574	520	3170	4110	3820	1690
MIN	163	105	70	55	100	79	65	231	440	1340	748	413
AC-FT	37310	13850	12550	5460	11160	8060	10220	20870	80040	129800	94190	53000
CFSM	15.0	5.75	5.04	2.19	4.79	3.24	4.24	8.38	33.2	52.1	37.8	22.0
IN.	17.28	6.41	5.81	2.53	5.17	3.73	4.73	9.66	37.06	60.10	43.62	24.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2000, BY WATER YEAR (WY)#

MEAN	524	218	109	95.9	118	81.4	253	637	1454	2132	2013	1879
MAX	1014	553	204	246	277	189	393	1158	1728	2518	3164	3583
(WY)	1994	1998	2000	1992	1997	1998	1995	1995	1990	1990	1989	1995
MIN	136	90.5	26.3	26.0	26.0	26.0	111	339	1263	1714	1409	649
(WY)	1997	1991	1991	1991	1991	1991	1999	2000	1999	1999	1998	1992

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

15272280 PORTAGE CREEK AT PORTAGE LAKE OUTLET NEAR WHITTIER--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1989 - 2000#	
ANNUAL TOTAL	274397		240226			
ANNUAL MEAN	752		656		783	
HIGHEST ANNUAL MEAN					972	1995
LOWEST ANNUAL MEAN					656	2000
HIGHEST DAILY MEAN	6630	Sep 13	4110	Jul 22	10700	Sep 20 1995
LOWEST DAILY MEAN	a30	Mar 8	b55	Jan 18	c26	Dec 5 1990
ANNUAL SEVEN-DAY MINIMUM	31	Mar 4	56	Jan 16	26	Dec 5 1990
INSTANTANEOUS PEAK FLOW			4340	Jul 22	13000	Sep 20 1995
INSTANTANEOUS PEAK STAGE			6.99	Jul 22	10.66	Sep 20 1995
INSTANTANEOUS LOW FLOW					26	Dec 5 1990
ANNUAL RUNOFF (AC-FT)	544300		476500		567100	
ANNUAL RUNOFF (CFSM)	18.6		16.2		19.3	
ANNUAL RUNOFF (INCHES)	252.04		220.65		262.63	
10 PERCENT EXCEEDS	1940		1690		2060	
50 PERCENT EXCEEDS	290		302		323	
90 PERCENT EXCEEDS	32		80		55	

See Period of Record; partial years used in monthly statistics
a Mar. 8 to Mar. 10
b Jan. 18 to Jan. 22
c From Dec. 5, 1990 to Mar. 31, 1991

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE

LOCATION.--Lat 61°10′02″, long 149°46′14″, in NW¼ sec. 2, T. 12 N., R. 3 W. (Anchorage A-8 quad), Municipality of Anchorage, 0.2 mi downstream from bridge on dog-mushing trail leading to Campbell Airstrip, 2.0 mi upstream from North Fork Campbell Creek, and 5.5 mi southeast of Anchorage.

DRAINAGE AREA.--29.2 mi^2, revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1947 to September 1971, October 1998 to current year.

GAGE.--Water-stage recorder. Altitude of gage is 260 ft, from topographic map. Prior to August 20, 1952, water-stage recorder at site 0.2 mi upstream at different datum. August 20, 1952 to July 15, 1958, water-stage recorder at site 70 ft downstream from previous site at different datum; July 16, 1958 to September 30, 1971, water-stage recorder at same site but different datum. October 1, 1971 to September 30, 1972, crest-stage gage at same site but different datum.

REMARKS.--Records good except for May 4 to July 28 and estimated daily discharges, which are poor. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft^3/s and maximums (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct 18	0015	161	6.07	Jul 5	1345	161	6.07
Jun 8	0245	202	6.26	Jul 18	0930	*225	*6.36
Jun 27	1900	202	6.26	Sep 26	0645	151	6.02

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	91	e40	e18	e11	e11	8.8	7.3	13	57	121	81	46
2	90	e38	e17	e11	e11	e8.8	7.2	14	54	121	85	46
3	80	e36	e17	e11	e11	8.8	7.1	16	53	120	85	42
4	72	e32	e17	e11	e11	8.5	7.4	21	60	117	91	43
5	70	e28	e17	e11	e11	8.3	7.5	20	82	142	82	41
6	66	e26	e16	e11	e11	8.7	7.2	22	100	128	69	40
7	62	e25	e15	e11	e11	e8.5	6.9	24	153	111	63	39
8	59	e24	e15	e11	e11	e8.5	6.5	22	159	115	61	38
9	57	e24	e15	e11	e11	e8.5	6.8	23	134	115	60	38
10	55	e24	e15	e11	e10	e8.5	6.8	22	134	101	56	43
11	53	e23	e14	e11	10	e8.5	6.3	23	134	91	52	43
12	54	e23	e14	e11	10	e8.5	6.4	24	145	95	50	39
13	52	e22	e14	e11	10	8.5	7.0	24	142	101	55	38
14	47	e21	e14	e11	e10	8.6	7.6	28	135	107	76	38
15	75	e21	e13	e11	e10	8.4	8.0	32	138	105	56	36
16	53	e21	e13	e11	e10	8.5	8.1	35	129	135	49	35
17	65	e21	e13	e11	e10	8.4	8.4	35	121	177	46	34
18	87	e21	e13	e11	10	8.4	7.6	36	119	182	47	34
19	80	e20	e14	e11	10	7.9	7.1	34	124	130	45	33
20	63	e20	e14	e11	9.5	6.8	7.8	32	125	118	49	33
21	58	e20	e14	e11	9.1	8.0	8.5	29	112	109	52	35
22	53	e20	e14	e12	9.0	8.3	8.7	29	105	89	49	47
23	50	e19	e14	e12	e9.0	7.9	8.7	31	105	79	49	57
24	e48	e19	e14	e12	e9.0	7.9	8.9	32	122	75	47	78
25	e46	e19	e14	e12	e9.0	8.0	8.5	34	139	72	47	75
26	e44	e19	e13	e12	e9.0	8.0	8.6	34	150	74	45	122
27	e48	e18	e12	e12	e9.0	e8.0	9.3	35	175	85	48	110
28	e55	e18	e11	e11	e9.0	e8.0	11	33	174	93	45	92
29	e48	e18	e11	e11	e9.0	e7.5	12	36	162	102	49	76
30	e42	e18	e11	e11	---	7.4	13	39	140	94	56	69
31	e40	---	e11	e11	---	7.4	---	52	---	84	48	---
TOTAL	1863	698	437	347	289.6	254.8	242.2	884	3682	3388	1793	1540
MEAN	60.1	23.3	14.1	11.2	9.99	8.22	8.07	28.5	123	109	57.8	51.3
MAX	91	40	18	12	11	8.8	13	52	175	182	91	122
MIN	40	18	11	11	9.0	6.8	6.3	13	53	72	45	33
AC-FT	3700	1380	867	688	574	505	480	1750	7300	6720	3560	3050
CFSM	2.06	.80	.48	.38	.34	.28	.28	.98	4.21	3.75	1.98	1.76
IN.	2.38	.89	.56	.44	.37	.32	.31	1.13	4.70	4.32	2.29	1.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2000, BY WATER YEAR (WY)#

MEAN	44.6	26.5	17.0	12.7	9.10	7.36	8.45	34.6	95.9	76.7	62.5	61.5
MAX	83.7	56.2	31.1	33.3	17.1	12.0	20.3	62.8	166	151	94.3	122
(WY)	1962	1953	1961	1961	1961	1961	1964	1960	1962	1963	1949	1960
MIN	19.3	11.5	10.6	5.99	4.02	3.44	3.70	10.5	49.2	37.8	31.8	21.1
(WY)	1951	1951	1969	1965	1969	1970	1971	1971	1954	1954	1969	1969

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

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1947 - 2000#	
ANNUAL TOTAL	12665.1		15418.6			
ANNUAL MEAN	34.7		42.1		38.2	
HIGHEST ANNUAL MEAN					50.9	1949
LOWEST ANNUAL MEAN					20.5	1969
HIGHEST DAILY MEAN	139	Aug 13	182	Jul 18	572	Jun 21 1949
LOWEST DAILY MEAN	a5.0	Mar 6	6.3	Apr 11	b2.0	Mar 28 1964
ANNUAL SEVEN-DAY MINIMUM	5.0	Mar 6	6.7	Apr 7	2.6	Mar 24 1964
INSTANTANEOUS PEAK FLOW			225	Jul 18	891	Jun 21 1949
INSTANTANEOUS PEAK STAGE			6.36	Jul 18	cd6.40	Nov 10 1965
INSTANTANEOUS LOW FLOW			4.3	Apr 11	.00	Oct 12 1958
ANNUAL RUNOFF (AC-FT)	25120		30580		27690	
ANNUAL RUNOFF (CFSM)	1.19		1.44		1.31	
ANNUAL RUNOFF (INCHES)	16.15		19.66		17.81	
10 PERCENT EXCEEDS	73		111		87	
50 PERCENT EXCEEDS	23		24		25	
90 PERCENT EXCEEDS	5.5		8.4		7.0	

\# See Period of Record; partial years used in monthly statistics
a Mar. 6 to Mar. 20
b Mar. 28 to Mar. 30, 1964
c Backwater from ice
d Site and datum then in use

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-49, 1951, 1958-61, 1965-70, 1998 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 1998 to current year.

INSTRUMENTATION.--Electronic water temperature recorder since October 1998, set for 15-minute recording interval.

REMARKS.--No record from January 13 to February 11 due to missing record with partial water temperature record on January 12 and February 10. Records represent water temperature at the sensor within 0.5ºC. Temperature at the sensor was compared with the stream average by cross sections on March 14, June 9,and August 9. No variation was found within the cross section. No variation was found between the mean stream temperature and temperature at the sensor.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 14.5ºC July 4, 1999; minimum, 0.0ºC on many days during the winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 13.0ºC July 12; minimum, 0.0ºC on many days during the fall and winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	PH SPECIFIC CONDUCTANCE (US/CM) (00095)	BARO-WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	OXYGEN, METRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	DISSOLVED (PERCENT SATURATION) (00301)
MAR								
14...	1301	11.0	100	8.2	1.0	758	13.0	92
14...	1302	15.0	100	8.1	1.0	758	13.2	93
14...	1303	19.0	100	8.1	1.0	758	13.7	97
14...	1304	23.0	100	8.1	1.0	758	13.7	97
14...	1305	27.0	100	8.1	1.0	758	13.7	97
JUN								
09...	1345	5.00	53	7.5	6.5	751	11.9	98
09...	1346	15.0	53	7.5	6.5	751	11.9	98
09...	1347	25.0	53	7.6	6.5	751	11.9	98
AUG								
09...	1401	2.00	74	7.8	9.0	760	11.8	102
09...	1402	8.00	74	7.8	9.0	760	11.7	101
09...	1403	14.0	74	7.8	9.0	760	11.7	101
09...	1404	20.0	74	7.8	9.0	760	11.7	101
09...	1405	26.0	74	7.8	9.0	760	11.7	101

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	QUALITY ASSUR-ANCE DATA INDICA-TOR CODE (99111)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
OCT												
14...	1500	9	9	25.7	5.38	48	10	3045	1001	--	83	7.5
NOV												
10...	1100	9	9	24.0	--	24	10	3045	1001	--	88	7.6
JAN												
12...	1415	9	9	14.0	--	12	10	3045	1001	--	102	7.5
MAR												
14...	1300	9	9	22.5	--	7.9	10	3045	1001	10	100	8.1
MAY												
04...	1415	9	9	24.8	5.15	20	10	3045	1001	--	108	8.0
JUN												
01...	1100	9	9	33.0	5.32	58	10	3045	1001	--	72	7.7
06...	1430	9	9	28.0	5.70	96	10	3045	1003	--	63	7.4
09...	1330	9	9	30.5	5.92	130	10	3045	1003	--	53	7.5
JUL												
11...	1520	9	9	27.0	5.71	88	10	3045	1001	--	69	7.7
21...	1450	9	9	29.5	5.76	104	10	3044	1006	--	65	7.5
AUG												
09...	1400	9	9	28.5	5.50	61	10	3045	1001	--	74	7.9
09...	1350	H	9	--	--	--	--	--	3003	--	74	7.9
SEP												
12...	1650	9	9	28.0	5.40	41	10	3045	1001	--	85	7.6
12...	1705	9	9	28.0	--	41	70	8010	1099	--	85	7.6
26...	1410	9	9	30.0	5.96	134	10	3045	1003	--	74	7.7

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT											
14...	--	.0	765	14.6	99	--	--	--	38	12.1	1.80
NOV											
10...	--	.0	752	13.3	92	--	--	--	41	13.0	2.01
JAN											
12...	--	.0	763	14.9	102	--	K1	--	44	13.9	2.26
MAR											
14...	--	1.0	758	13.5	95	K5	K8	--	47	14.7	2.46
MAY											
04...	--	4.5	746	12.3	97	K4	K3	25	48	15.0	2.57
JUN											
01...	--	4.0	766	12.7	96	K2	K1	K2	33	10.4	1.60
06...	--	7.0	754	8.2	68	61	23	K2	27	8.81	1.24
09...	17.5	6.5	751	11.9	98	K2	K1	--	25	8.08	1.14
JUL											
11...	--	10.0	763	11.5	102	K2	K2	K2	31	10.3	1.32
21...	--	7.5	761	11.7	98	K6	20	K11	30	9.86	1.24
AUG											
09...	--	9.0	760	11.7	101	10	K2	K2	34	11.1	1.47
09...	--	9.0	760	11.7	101	--	--	--	--	--	--
SEP											
12...	--	6.0	758	--	--	110	29	<1	39	12.7	1.69
12...	--	6.0	758	--	--	--	--	--	--	--	--
26...	--	6.0	757	12.2	99	--	K19	K3	34	11.2	1.44

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
OCT											
14...	1.1	20	E.2	24	19	12.2	.4	<.1	7.2	60	--
NOV											
10...	1.2	27	E.2	32	26	12.5	.4	<.1	8.2	51	--
JAN											
12...	1.3	33	E.2	39	32	12.9	.4	<.1	8.2	66	--
MAR											
14...	1.4	34	E.2	41	34	12.0	.4	<.1	8.2	71	--
MAY											
04...	1.4	35	.3	43	35	8.5	.6	<.1	8.3	71	64
JUN											
01...	1.0	24	E.2	29	24	7.9	E.2	<.1	6.2	46	--
06...	.9	22	E.2	20	24	7.0	.3	<.1	5.2	39	--
09...	.8	19	E.1	21	17	6.7	E.3	<.1	5.1	40	--
JUL											
11...	.9	22	<.2	25	21	10.8	E.2	<.1	4.8	49	--
21...	.8	21	<.2	24	20	9.9	E.2	<.1	4.9	41	--
AUG											
09...	.9	24	E.1	28	23	10.7	E.3	<.1	5.4	53	--
09...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	1.1	26	E.2	30	25	11.4	.4	<.1	6.0	51	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	.9	21	.2	24	20	12.6	.7	<.1	5.5	48	45

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT											
14...	.001	.209	<.002	E.10	<.10	E.005	<.006	.004	<10	<2	2
NOV											
10...	<.001	.353	.002	E.10	<.10	<.008	<.006	<.001	<10	<3	<1
JAN											
12...	<.001	.432	<.002	<.10	<.10	<.008	<.006	<.001	<10	<2	1
MAR											
14...	<.001	.379	<.002	E.10	E.10	<.008	<.006	.002	<10	<2	1
MAY											
04...	<.001	1.32	<.002	.22	.10	E.004	<.006	<.001	<10	<2	6
JUN											
01...	<.001	.514	.005	.10	<.10	E.006	<.006	<.001	<10	<2	8
06...	.002	.138	.178	.15	E.10	.020	E.003	.040	<10	E1	16
09...	<.001	.181	.005	.18	.14	.021	<.006	<.001	E10	<2	21
JUL											
11...	.001	.069	<.002	E.10	<.10	<.008	<.006	.006	<10	<2	2
21...	.001	.073	<.002	E.10	E.10	.013	<.006	.002	<10	<2	10
AUG											
09...	<.001	.083	.007	E.10	<.10	<.008	<.006	<.001	<10	<2	3
09...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	<.001	.094	.004	<.10	<.10	<.008	<.006	.001	<10	<2	<1
12...	--	--	--	--	--	--	--	--	--	--	--
26...	<.001	.131	.002	.11	E.10	.014	<.006	<.001	E10	<2	<1

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BENZENE HEXACHLOROSED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTACHLOROANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)
OCT											
14...	.26	--	.96	--	.2	--	--	--	--	--	--
NOV											
10...	--	--	1.2	--	<.2	--	--	--	--	--	--
JAN											
12...	.03	--	.71	--	<.2	--	--	--	--	--	--
MAR											
14...	.02	--	.45	--	<.2	--	--	--	--	--	--
MAY											
04...	.32	--	1.9	--	<.2	--	--	--	--	--	--
JUN											
01...	1.3	48	1.3	--	.2	--	--	--	--	--	--
06...	4.1	45	1.3	--	.3	--	--	--	--	--	--
09...	7.4	37	1.2	--	.5	--	--	--	--	--	--
JUL											
11...	.48	--	.67	--	<.2	--	--	--	--	--	--
21...	2.8	54	.82	--	<.2	--	--	--	--	--	--
AUG											
09...	.49	60	.62	--	<.2	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	8	<50	<50	4.6
SEP											
12...	--	--	.73	--	.4	--	--	--	--	--	--
12...	--	--	.77	<.1	.1	.1	<.022	--	--	--	--
26...	--	--	--	--	--	--	.042	--	--	--	--

DATE	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRICHLOROSED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DICHLOROSED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DICHLOROSED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DICHLOROSED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)
OCT											
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
12...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<.2	4.6	<50	<50	<50	<50	<50	<50	<50	<50	<50
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	2,2'-BI QUINO- LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DI- NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DI- NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHAL ENE, 2- CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHAL ENE, 2- ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRA- CENE,2- METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5- XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)	4-BROMO PHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)
OCT											
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
12...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

DATE	M-CRE- SOL, 4- CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHN LETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRI- DINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRA- CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10- ANTHRA- QUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZO- BENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A) ANTHRA- CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)
OCT											
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
12...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCI NNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALA TE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALA TEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8-ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBA-ZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHAL-ATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHAL ATE, D IOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
OCT											
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
12...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<50	<50	<50	<50	E10	E10	<50	<50	<50	E10	<50
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPH ENE,DI-BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHAL-ATE, D IETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHAL-ATE,DI-METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO-QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
OCT											
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
12...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLORO ETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHL ETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
OCT											
14...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
12...	--	--	--	--	--	--	--	--	--	--	--
MAR											
14...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	--	--	--	--	--	--	--	--	--	--	--
09...	<50	<50	<50	<50	<50	E10	<50	<50	<50	<50	E20
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	5.0	4.5	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	5.0	4.5	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	5.0	3.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	4.5	4.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	5.0	3.5	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	4.5	2.5	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	4.5	2.5	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	4.0	2.5	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	3.0	2.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	2.5	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	2.5	.5	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	3.5	2.0	2.5	.0	.0	.0	.0	.0	.0	---	.0	---
13	3.0	1.0	2.0	.0	.0	.0	.0	.0	.0	---	---	---
14	1.0	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
16	2.0	.0	1.0	.0	.0	.0	.0	.0	.0	---	---	---
17	2.5	.5	1.5	.0	.0	.0	.0	.0	.0	---	---	---
18	4.0	2.5	3.0	.0	.0	.0	.0	.0	.0	---	---	---
19	3.5	2.0	2.5	.0	.0	.0	.0	.0	.0	---	---	---
20	2.5	1.5	2.0	.0	.0	.0	.0	.0	.0	---	---	---
21	2.0	.5	1.0	.0	.0	.0	.0	.0	.0	---	---	---
22	1.0	.0	.5	.0	.0	.0	.0	.0	.0	---	---	---
23	1.0	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
25	.5	.0	.5	.0	.0	.0	.0	.0	.0	---	---	---
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
27	.5	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	---	---	---
31	.0	.0	.0	---	---	---	.0	.0	.0	---	---	---
MONTH	5.0	.0	1.8	.0	.0	.0	.0	.0	.0	---	---	---

15274000 SOUTH FORK CAMPBELL CREEK NEAR ANCHORAGE--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	.5	.0	.5	1.5	.0	.5	4.5	1.0	2.5
2	---	---	---	.5	.0	.0	2.0	.5	1.0	4.5	1.0	2.5
3	---	---	---	1.0	.5	.5	2.0	.5	1.0	5.5	.5	3.0
4	---	---	---	1.0	.5	.5	2.0	.5	1.0	4.5	.5	2.5
5	---	---	---	1.0	.0	.5	2.0	.5	1.0	4.5	.5	2.5
6	---	---	---	.5	.0	.0	1.5	.0	.5	6.0	.5	3.0
7	---	---	---	.0	.0	.0	2.0	.0	.5	4.5	1.5	3.0
8	---	---	---	.0	.0	.0	2.0	.0	.5	5.0	.5	2.5
9	---	---	---	.0	.0	.0	2.0	.0	.5	5.5	1.5	3.5
10	---	.0	---	.0	.0	.0	1.5	.0	.5	5.5	.5	3.0
11	.5	.0	.0	.0	.0	.0	1.5	.0	.5	6.0	1.0	3.5
12	1.0	.0	.5	.5	.0	.0	2.5	.5	1.5	6.5	1.0	3.5
13	.5	.0	.0	1.0	.0	.5	3.0	.5	1.5	7.0	1.0	4.0
14	.0	.0	.0	1.0	.5	1.0	3.0	.5	1.5	5.0	2.5	3.5
15	.0	.0	.0	1.5	.5	1.0	3.0	.5	1.5	5.0	2.0	3.5
16	.0	.0	.0	1.5	.5	1.0	3.0	.5	1.5	5.0	1.5	3.5
17	.5	.0	.0	1.5	.5	1.0	2.5	1.0	1.5	5.5	2.0	3.5
18	.5	.0	.5	1.5	.5	1.0	2.5	1.0	1.5	6.5	2.0	4.0
19	1.0	.5	.5	1.0	.0	.5	3.0	1.0	1.5	5.0	2.0	3.5
20	1.0	.5	.5	1.5	.5	1.0	2.5	.5	1.5	7.0	2.5	4.0
21	.5	.5	.5	1.5	.5	1.0	2.5	1.0	1.5	5.5	1.5	3.5
22	.5	.0	.0	2.0	.5	1.0	3.0	.5	1.5	5.0	2.0	3.5
23	.0	.0	.0	1.5	.5	1.0	3.5	.0	1.5	6.5	2.0	4.0
24	.0	.0	.0	1.0	.5	1.0	3.5	.0	1.5	7.5	2.0	4.5
25	.0	.0	.0	1.0	.5	.5	2.5	.0	1.5	5.0	2.0	4.0
26	.0	.0	.0	1.0	.0	.5	4.5	.5	2.0	7.0	2.0	4.5
27	.0	.0	.0	.0	.0	.0	4.5	1.0	2.5	7.5	1.5	4.5
28	.5	.0	.5	.0	.0	.0	4.5	.5	2.5	8.0	2.0	4.5
29	1.0	.5	.5	.5	.0	.0	4.5	1.5	2.5	7.5	2.0	5.0
30	---	---	---	1.5	.5	1.0	3.5	1.0	2.5	6.5	2.5	4.5
31	---	---	---	.5	.0	.5	---	---	---	4.5	3.0	4.0
MONTH	---	---	---	2.0	.0	.5	4.5	.0	1.4	8.0	.5	3.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.5	3.0	4.5	10.5	6.5	8.5	10.0	7.0	8.5	8.5	7.5	7.5
2	8.5	2.5	5.0	11.0	7.5	9.0	9.5	8.0	8.5	8.0	5.5	7.0
3	8.0	2.5	5.0	9.5	8.0	9.0	11.5	9.0	10.0	8.0	6.5	7.0
4	9.0	3.0	6.0	11.0	7.5	9.0	10.5	8.5	9.0	7.5	6.0	6.5
5	9.0	3.5	6.0	10.0	8.0	9.0	10.5	7.5	9.0	7.0	5.0	6.0
6	7.5	3.5	5.5	9.0	7.5	8.0	10.5	7.5	9.0	7.0	5.5	6.0
7	5.5	4.0	4.5	12.0	7.0	9.5	10.5	7.0	8.5	7.0	5.0	6.0
8	7.0	3.5	5.0	11.0	9.0	10.0	11.0	7.5	9.0	6.5	5.0	5.5
9	8.5	3.5	6.0	10.0	8.5	9.0	11.0	7.0	9.0	6.5	3.0	4.5
10	6.5	4.0	5.0	10.0	8.0	9.0	11.0	7.5	9.0	6.0	5.5	5.5
11	8.0	3.5	5.5	11.0	8.0	9.5	11.0	8.5	9.5	7.0	5.0	5.5
12	9.0	4.5	6.5	13.0	9.0	10.5	12.0	8.5	10.0	6.0	5.0	5.5
13	7.0	4.5	5.5	11.5	10.0	10.0	11.5	9.0	10.5	5.5	5.0	5.5
14	8.5	5.0	6.5	10.0	9.0	9.5	11.0	9.0	10.0	6.0	4.0	5.0
15	8.5	4.5	6.5	11.0	8.0	9.5	10.0	6.0	8.5	6.0	3.5	5.0
16	7.5	4.5	6.5	9.5	8.5	9.0	10.0	6.5	8.5	5.5	3.0	4.5
17	7.5	5.5	6.5	9.0	7.5	8.5	10.0	7.0	8.5	5.0	2.5	4.0
18	9.0	4.5	6.5	8.5	7.0	7.5	10.5	8.5	9.5	4.5	1.5	3.0
19	7.5	5.5	6.5	9.0	6.5	7.5	10.0	8.5	9.0	5.0	2.5	4.0
20	7.5	4.5	6.0	8.0	7.0	7.5	9.0	7.0	8.0	5.5	3.0	4.5
21	8.5	5.0	6.5	7.5	6.5	7.0	8.5	7.5	8.0	9.0	5.5	7.0
22	8.5	6.0	7.0	9.0	6.5	7.5	9.0	7.0	8.0	9.0	7.0	8.0
23	11.5	5.5	8.5	10.0	6.5	8.0	8.5	5.0	7.0	7.0	6.0	6.5
24	11.5	7.0	9.0	9.5	7.0	8.5	8.5	7.0	7.5	7.0	6.5	6.5
25	9.5	7.0	8.0	10.5	7.0	8.5	8.0	6.0	7.0	7.5	7.0	7.0
26	9.5	7.0	8.0	11.0	7.5	9.0	8.0	4.0	6.0	7.0	5.0	6.5
27	9.5	7.5	8.5	10.0	7.5	9.0	7.5	6.5	7.0	5.0	3.5	4.0
28	9.5	7.5	8.5	9.0	7.5	8.5	8.0	6.5	7.5	3.5	2.0	2.5
29	8.5	7.5	8.0	8.5	7.0	7.5	8.0	7.0	7.5	2.5	.0	1.5
30	9.0	7.0	8.0	10.0	7.0	8.5	9.0	6.5	7.5	2.0	.0	1.0
31	---	---	---	9.0	7.0	8.0	9.0	5.0	7.0	---	---	---
MONTH	11.5	2.5	6.5	13.0	6.5	8.7	12.0	4.0	8.4	9.0	.0	5.3

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE

LOCATION.--Lat 61°12′19″, long 149°53′43″, on line between sec. 19, R. 3 W., and sec. 24, R. 4 W., T. 13 N. (Anchorage A-8 quad), Hydrologic Unit 19020401, on left bank 50 ft downstream from bridge on Arctic Boulevard in Anchorage and 0.8 mi upstream from mouth.

DRAINAGE AREA.--27.4 mi^2, revised.

WATER-DISCHARGE RECORD

PERIOD OF RECORD.--June 1966 to April 1986, July 1987 to September 1993, and October 1998 to current year.

REVISED RECORDS.--WRD Alaska 1972: Drainage area. WDR AK-82-1: 1979(M), 1981(M).

GAGE.--Water-stage-recorder. Auxiliary crest-stage gage since April 2000. Datum of gage is 16.02 ft above sea level (from USGS&CG, datum of 1968). Prior to May 25, 1988, at site 100 ft upstream at same datum.

REMARKS.--Records good, except for estimated daily discharges and July 29 to August 31, which are poor.

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	69	25	e21	e13	16	16	22	30	e30	29	31	27
2	52	24	e21	e13	e16	16	23	29	e30	29	37	25
3	37	e23	e21	e13	e17	15	26	28	e30	28	35	26
4	31	21	21	e13	e18	16	39	29	e30	28	39	24
5	31	21	22	e13	18	15	31	28	30	44	32	25
6	29	22	e20	e13	18	14	28	27	29	35	30	23
7	28	24	e20	e13	18	15	28	27	30	32	28	25
8	27	22	e20	e13	17	15	28	27	30	31	28	25
9	26	21	e19	e13	17	15	28	26	30	34	29	24
10	26	e23	e18	e13	16	16	27	26	29	31	29	24
11	26	e24	e17	e13	16	15	25	26	29	31	29	24
12	28	20	e16	e13	16	14	30	26	29	34	28	24
13	27	20	e15	e13	16	14	39	26	28	31	40	21
14	27	21	e15	e13	17	15	44	26	28	30	49	20
15	29	21	e15	e14	e17	15	45	26	27	29	33	e20
16	32	22	e14	e14	e18	17	45	26	28	45	28	e20
17	46	21	e14	e15	18	21	41	27	30	43	25	e20
18	51	21	e14	e16	19	20	38	27	27	40	32	e20
19	61	21	e14	e17	18	16	37	27	27	35	31	e20
20	36	21	e14	e17	17	17	36	28	27	39	34	e21
21	30	21	e14	e17	17	24	36	28	27	34	35	e25
22	28	20	e15	e17	17	26	35	28	27	32	36	e36
23	27	20	e15	e17	e17	26	34	29	27	33	31	e48
24	26	20	e14	e17	e18	24	33	28	27	34	40	e42
25	27	21	e14	17	e18	23	32	28	27	33	34	e65
26	26	e21	e15	17	e19	21	31	30	27	37	33	e80
27	26	e21	e15	17	19	18	32	30	28	34	40	36
28	25	e21	e14	17	16	16	32	30	e33	52	46	31
29	25	e21	e13	16	17	20	32	30	44	43	51	29
30	25	e21	e13	17	---	24	31	e30	32	35	36	28
31	25	---	e13	17	---	22	---	e30	---	32	27	---
TOTAL	1009	645	506	461	501	561	988	863	877	1077	1056	878
MEAN	32.5	21.5	16.3	14.9	17.3	18.1	32.9	27.8	29.2	34.7	34.1	29.3
MAX	69	25	22	17	19	26	45	30	44	52	51	80
MIN	25	20	13	13	16	14	22	26	27	28	25	20
AC-FT	2000	1280	1000	914	994	1110	1960	1710	1740	2140	2090	1740
CFSM	1.19	.79	.60	.54	.63	.66	1.20	1.02	1.07	1.27	1.25	1.07
IN.	1.37	.88	.69	.63	.68	.76	1.34	1.17	1.19	1.46	1.44	1.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)#

MEAN	25.8	18.3	14.7	12.6	11.4	13.4	25.1	23.4	21.8	22.0	25.3	28.4
MAX	52.5	45.5	33.1	26.5	20.1	25.2	58.4	55.9	44.9	34.7	61.4	59.7
(WY)	1990	1990	1990	1990	1990	1990	1990	1992	1990	2000	1989	1989
MIN	10.7	8.27	3.84	3.27	2.99	4.18	10.6	11.0	10.1	10.1	9.59	12.5
(WY)	1971	1993	1993	1971	1971	1971	1970	1970	1970	1976	1976	1970

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000#	
ANNUAL TOTAL	7894.7		9422			
ANNUAL MEAN	21.6		25.7		20.2	
HIGHEST ANNUAL MEAN					38.4	1990
LOWEST ANNUAL MEAN					11.5	1970
HIGHEST DAILY MEAN	91	Sep 3	80	Sep 26	345	Aug 26 1989
LOWEST DAILY MEAN	6.3	Feb 9	a13	Dec 29	b1.6	Feb 12 1975
ANNUAL SEVEN-DAY MINIMUM	6.5	Feb 5	13	Dec 29	1.9	Feb 9 1975
INSTANTANEOUS PEAK FLOW			168	Sep 26	421	Aug 26 1989
INSTANTANEOUS PEAK STAGE			3.49	Sep 26	5.56	Aug 26 1989
ANNUAL RUNOFF (AC-FT)	15660		18690		14650	
ANNUAL RUNOFF (CFSM)	.79		.94		.74	
ANNUAL RUNOFF (INCHES)	10.74		12.82		10.05	
10 PERCENT EXCEEDS	33		36		33	
50 PERCENT EXCEEDS	21		26		18	
90 PERCENT EXCEEDS	7.3		15		9.0	

\# See Period of Record; partial years used in monthly statistics
a Dec. 29 to Jan. 14
b Feb. 12 to Feb. 14, 1975
e Estimated

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1967-73, 1975-1977, 1980 to 1986, and 1998 to current year.

PERIOD OF DAILY RECORD.--
SPECIFIC CONDUCTANCE: October 1981 to March 1986, June 2000 to September 2000.
WATER TEMPERATURE: October 1981 to March 1986, October 1998 to current year.

INSTRUMENTATION.--Electronic water-temperature and specific conductance recorder set for 15-minute recording interval.

REMARKS.--
WATER TEMPERATURE: No record December 15-19, January 13, 16-18, June 28, and September 21-26. Minimum water temperature only on June 27 and September 20. Record represents water temperature at the sensor within 0.5ºC. Temperature at the sensor was compared with stream average by cross sections on November 10, and April 9. Temperature and specific conductance were compared on September 26 by cross section. No variation was found within the cross section, or between mean stream temperature and sensor temperature.
SPECIFIC CONDUCTANCE: Probe installed on June 30. No record July 20 to August 9, August 29 except for maximum, and September 16-26 due to faulty recorder and fouled probe. Records represent specific conductance at the sensor within 10 µS/cm.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 19.5ºC, July 6, 1985; minimum, 0.0ºC, on many days during winter periods.
SPECIFIC CONDUCTANCE: Maximum, 1390 µS/cm, February 8, 1986; minimum, 48 µS/cm August 14, 1983.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 16.0ºC, August 13; minimum, 0.0ºC on many days during winter.
SPECIFIC CONDUCTANCE: Maximum observed, 252 µS/cm, August 13; minimum observed, 81 µS/cm, August 13.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
NOV								
10...	1430	3.00	266	7.9	.0	752	11.8	82
10...	1431	8.00	267	7.9	.0	752	12.0	83
10...	1432	13.0	268	7.9	.0	752	12.0	83
10...	1433	18.0	268	7.9	.0	752	12.0	83
09...	2016	2.00	231	7.5	3.5	771	11.0	82
09...	2017	5.00	231	7.5	3.5	771	11.0	82
09...	2018	8.00	231	7.5	3.5	771	11.4	85
09...	2019	11.0	231	7.5	3.5	771	11.6	86
09...	2020	14.0	231	7.5	3.5	771	11.5	86
09...	2021	17.0	231	7.6	3.5	771	11.2	83
26...	1211	2.00	175	7.6	9.0	766	10.6	91
26...	1212	6.00	175	7.6	9.0	766	10.6	91
26...	1213	10.0	175	7.6	9.0	766	10.7	92
26...	1214	14.0	175	7.6	9.0	766	10.6	91
26...	1215	18.0	174	7.6	9.0	766	10.6	91

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	QUALITY ASSUR- ANCE DATA INDICA- TOR CODE (99111)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)
OCT												
04...	1430	9	9	17.8	1.88	14	10	3045	1001	--	256	7.6
NOV												
10...	1400	9	9	22.0	1.95	24	10	3045	1001	--	274	7.7
JAN												
11...	1530	9	9	20.0	--	13	10	3045	1001	--	277	7.5
MAR												
13...	1130	9	9	19.5	1.53	13	10	3045	1001	--	272	7.9
APR												
09...	2015	9	9	19.8	1.90	36	10	3045	1001	--	231	7.5
13...	1600	9	7	24.0	2.01	37	10	3045	1002	30	254	7.8
MAY												
04...	0915	9	9	19.1	1.84	27	10	3045	1001	--	276	8.2
JUN												
07...	1350	9	9	19.0	1.84	31	10	3045	1001	--	265	8.1
JUL												
11...	1150	9	9	19.0	1.84	31	10	3045	1001	--	242	8.0
AUG												
08...	1340	9	9	19.0	1.79	28	10	3045	1001	--	242	8.0
08...	1330	H	9	--	--	--	--	--	3003	--	242	8.0
29...	1520	9	9	16.5	2.06	42	10	3045	1002	--	145	7.6
29...	1535	9	9	16.5	2.06	42	70	8010	1099	--	145	7.6
SEP												
12...	1350	9	9	18.0	1.77	24	10	3045	1001	--	244	8.0
12...	1405	9	9	18.0	1.77	24	70	8010	1099	--	--	--
26...	1200	9	9	20.0	2.24	56	10	3045	1002	--	175	7.5

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
OCT												
04...	--	7.0	755	11.4	95	--	--	--	100	30.1	7.11	7.6
NOV												
10...	--	.0	752	12.0	83	--	--	--	120	35.3	8.20	7.6
JAN												
11...	--	.0	762	13.9	95	K17	K20	180	110	32.7	7.76	8.7
MAR												
13...	--	1.5	758	13.0	93	--	320	--	110	32.2	7.69	9.9
APR												
09...	--	3.5	771	11.3	84	--	--	--	85	24.1	6.01	9.6
13...	11.5	5.0	772	11.6	90	K260	K70	854	92	25.7	6.77	9.4
MAY												
04...	--	4.5	756	11.8	92	K58	21	K33	120	34.0	8.37	8.7
JUN												
07...	16.5	11.5	755	10.4	96	330	210	K256	110	32.2	7.64	7.3
JUL												
11...	--	12.5	763	11.0	103	240	80	29	100	29.6	7.07	6.6
AUG												
08...	29.5	12.5	765	9.3	87	K1500	K1500	63	100	30.2	6.90	7.6
08...	--	12.5	765	9.3	87	--	--	--	--	--	--	--
29...	14.0	11.5	757	--	--	K980	--	K3400	59	17.4	3.74	4.2
29...	--	--	757	--	--	--	--	--	--	--	--	--
SEP												
12...	15.5	9.0	758	11.3	98	440	>800	59	110	31.7	7.04	6.4
12...	--	--	--	--	--	--	--	--	--	--	--	--
26...	10.0	9.0	766	10.6	91	300	--	633	75	22.1	4.75	5.1

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)
OCT												
04...	86	1.1	70	70	24.5	15.1	<.1	11.5	155	134	.003	.619
NOV												
10...	81	.9	98	80	27.1	15.7	<.1	13.5	161	161	.005	.906
JAN												
11...	84	1.1	101	83	24.3	17.2	<.1	12.9	174	158	.006	.899
MAR												
13...	81	1.1	96	79	22.2	20.5	<.1	11.7	170	156	.004	.822
APR												
09...	60	3.4	72	59	14.4	21.5	.2	7.5	140	126	.016	.582
13...	60	3.0	73	59	16.8	22.9	<.1	7.9	152	132	.014	.651
MAY												
04...	78	1.2	94	77	26.6	20.9	<.1	9.4	174	160	.003	.907
JUN												
07...	80	.9	96	79	22.0	15.0	<.1	10.0	160	146	.008	.709
JUL												
11...	80	.9	96	79	18.9	13.0	<.1	9.5	157	135	.004	.472
AUG												
08...	81	1.1	93	78	18.8	12.4	E.1	10.1	151	136	.002	.512
08...	--	--	--	--	--	--	--	--	--	--	--	--
29...	48	1.1	59	48	10.3	6.6	.2	6.5	91	81	.011	.349
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	79	.9	94	79	17.9	12.0	.1	11.2	147	136	.003	.562
12...	--	--	--	--	--	--	--	--	--	--	--	--
26...	56	1.2	64	53	13.3	8.9	<.1	8.6	105	97	.002	.306

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)
OCT												
04...	.011	.28	.18	.018	E.004	<.001	--	--	--	--	--	--
NOV												
10...	.025	.22	.20	.015	<.006	<.001	--	--	--	--	--	--
JAN												
11...	.031	.14	.21	.009	E.003	<.001	--	--	--	--	--	--
MAR												
13...	.003	.14	.11	.014	<.006	.001	--	--	--	--	--	--
APR												
09...	.321	1.1	.73	.177	.081	.051	--	--	--	--	--	--
13...	.276	.95	.66	.199	.090	.071	--	--	--	--	--	--
MAY												
04...	.003	.37	.19	.018	E.005	<.001	--	--	--	--	--	--
JUN												
07...	.023	.29	.20	.018	<.006	.002	--	--	--	--	--	--
JUL												
11...	.006	.17	.12	.024	E.004	.004	--	--	--	--	--	--
AUG												
08...	.006	.27	.16	.245	.210	.030	6	E1.0	18	<1	<1.0	<.8
08...	--	--	--	--	--	--	--	--	--	--	--	--
29...	.048	.45	.19	.092	.014	.006	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	.010	.18	.11	.021	E.004	.002	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--	--
26...	.012	.20	.12	.040	E.005	<.001	--	--	--	--	--	--

DATE	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
OCT												
04...	--	--	110	--	76	--	--	--	--	--	--	5
NOV												
10...	--	--	520	--	107	--	--	--	--	--	--	4
JAN												
11...	--	--	100	--	67	--	--	--	--	--	--	3
MAR												
13...	--	--	80	--	99	--	--	--	--	--	--	9
APR												
09...	--	--	160	--	120	--	--	--	--	--	--	31
13...	--	--	160	--	130	--	--	--	--	--	--	36
MAY												
04...	--	--	200	--	138	--	--	--	--	--	--	7
JUN												
07...	--	--	70	--	62	--	--	--	--	--	--	7
JUL												
11...	--	--	110	--	46	--	--	--	--	--	--	8
AUG												
08...	<1	<1	180	<1	43	<1	<1	<2.4	<1	9	<1	7
08...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	60	--	36	--	--	--	--	--	--	48
29...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
12...	--	--	70	--	56	--	--	--	--	--	--	8
12...	--	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	60	--	32	--	--	--	--	--	--	<1

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, INORGANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	NITROGEN, PARTICULTE WAT FLT SUSP (MG/L AS N) (49570)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BENZENE HEXACHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTACHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)
OCT											
04...	.19	--	4.1	--	.3	--	--	--	--	--	--
NOV											
10...	.26	--	2.6	--	.3	--	--	--	--	--	--
JAN											
11...	.11	--	2.1	--	.2	--	--	--	--	--	--
MAR											
13...	.33	88	1.7	--	.2	--	--	--	--	--	--
APR											
09...	3.0	96	2.7	--	.5	--	--	--	--	--	--
13...	3.6	94	5.3	--	1.5	--	--	--	--	--	--
MAY											
04...	.51	--	3.8	--	.6	--	--	--	--	--	--
JUN											
07...	.59	80	2.5	--	.3	--	--	--	--	--	--
JUL											
11...	.67	88	2.5	--	.4	--	--	--	--	--	--
AUG											
08...	.53	91	2.2	--	.5	--	--	--	--	--	--
08...	--	--	--	--	--	--	--	2	<50	<50	5.2
29...	5.4	93	3.0	--	1.6	--	--	--	--	--	--
29...	--	--	3.3	<.1	3.9	3.9	.22	--	--	--	--
SEP											
12...	.53	92	2.2	--	.7	--	--	--	--	--	--
12...	--	--	2.2	<.1	.8	.8	.077	--	--	--	--
26...	--	--	--	--	--	--	.089	--	--	--	--

DATE	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
09...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	<.2	5.2	<50	<50	<50	<50	<50	<50	<50	<50	<50
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	2,2'-BI QUINO- LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DI- NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DI- NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHAL ENE, 2- CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHAL ENE, 2- ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRA- CENE,2- METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5- XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)	4-BROMO PHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
09...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

DATE	M-CRE- SOL, 4- CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHN LETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRI- DINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRA- CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10- ANTHRA- QUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZO- BENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A) ANTHRA- CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
09...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	<50	<50	E10	<50	<50	<50	E10	E20	<50	E30	E40
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BENZOB FLUOR- ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCI NNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR- ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALA TE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALA TEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8- ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBA- ZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRY- SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHAL- ATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHAL ATE, D IOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
09...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	60	<50	E10	E40	390	E50	<50	<50	70	E20	E50
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPH ENE,DI- BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHAL- ATE, D IETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHAL- ATE,DI- METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUOR- ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLU- ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO- QUINO- LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
09...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	<50	<50	<50	<50	90	E10	E20	<50	<50	<50	<50
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLORO ETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHL ETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
OCT											
04...	--	--	--	--	--	--	--	--	--	--	--
NOV											
10...	--	--	--	--	--	--	--	--	--	--	--
JAN											
11...	--	--	--	--	--	--	--	--	--	--	--
MAR											
13...	--	--	--	--	--	--	--	--	--	--	--
APR											
09...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--
MAY											
04...	--	--	--	--	--	--	--	--	--	--	--
JUN											
07...	--	--	--	--	--	--	--	--	--	--	--
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
08...	<50	<50	<50	60	<50	E10	90	<50	<50	<50	E50
29...	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--
SEP											
12...	--	--	--	--	--	--	--	--	--	--	--
12...	--	--	--	--	--	--	--	--	--	--	--
26...	--	--	--	--	--	--	--	--	--	--	--

SPECIFIC CONDUCTANCE (MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	246	234	237	---	---	---	234	217	228
2	---	---	---	238	234	236	---	---	---	234	219	230
3	---	---	---	244	233	235	---	---	---	238	141	225
4	---	---	---	242	232	234	---	---	---	233	220	230
5	---	---	---	236	121	195	---	---	---	234	224	229
6	---	---	---	236	228	231	---	---	---	237	230	234
7	---	---	---	240	231	234	---	---	---	235	230	233
8	---	---	---	242	231	234	---	---	---	242	232	234
9	---	---	---	236	161	223	244	---	---	237	223	233
10	---	---	---	242	230	234	251	235	242	234	226	231
11	---	---	---	245	233	239	249	238	242	234	227	232
12	---	---	---	259	177	222	251	236	241	236	230	234
13	---	---	---	239	225	232	252	81	210	241	234	237
14	---	---	---	241	224	233	228	143	207	238	231	236
15	---	---	---	240	231	234	228	216	222	241	196	---
16	---	---	---	238	106	191	239	227	233	---	---	---
17	---	---	---	235	181	207	242	233	236	---	---	---
18	---	---	---	244	197	225	242	186	220	---	---	---
19	---	---	---	252	240	243	237	199	226	---	---	---
20	---	---	---	---	---	---	236	141	211	---	---	---
21	---	---	---	---	---	---	235	154	217	---	---	---
22	---	---	---	---	---	---	231	203	223	---	---	---
23	---	---	---	---	---	---	235	227	231	---	---	---
24	---	---	---	---	---	---	248	85	194	---	---	---
25	---	---	---	---	---	---	201	169	192	---	---	---
26	---	---	---	---	---	---	206	142	199	---	---	---
27	---	---	---	---	---	---	199	142	179	221	208	214
28	---	---	---	---	---	---	201	176	188	225	220	223
29	---	---	---	---	---	---	204	---	---	224	221	223
30	242	234	236	---	---	---	227	194	218	227	223	225
31	---	---	---	---	---	---	234	224	228	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.5	7.0	7.5	2.0	1.5	1.5	.0	.0	.0	.0	.0	.0
2	8.0	7.0	7.5	1.5	.0	1.0	.0	.0	.0	.0	.0	.0
3	7.5	6.5	7.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	7.5	7.0	7.0	1.5	.0	.5	1.0	.0	.5	.0	.0	.0
5	7.5	6.5	7.0	2.5	1.5	2.0	.0	.0	.0	.0	.0	.0
6	7.5	6.0	6.5	2.5	2.0	2.5	.0	.0	.0	.0	.0	.0
7	7.0	5.5	6.5	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0
8	7.0	5.5	6.5	1.5	.5	1.0	.0	.0	.0	.0	.0	.0
9	6.5	5.0	5.5	1.0	.0	.5	.0	.0	.0	.0	.0	.0
10	5.5	4.5	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	5.5	4.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	6.0	5.0	5.5	1.5	.0	1.0	.0	.0	.0	.0	.0	.0
13	5.5	4.0	5.0	2.0	1.5	2.0	.0	.0	.0	---	---	---
14	4.0	3.0	3.5	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0
15	3.5	2.0	3.0	1.5	.0	1.0	---	---	---	.0	.0	.0
16	5.0	3.5	4.0	1.5	.0	.5	---	---	---	---	---	---
17	4.5	3.0	3.5	1.5	.5	1.0	---	---	---	---	---	---
18	5.0	3.0	3.5	1.0	.0	.5	---	---	---	---	---	---
19	5.0	3.5	4.0	2.0	1.0	1.5	---	---	---	.0	.0	.0
20	5.0	3.5	4.0	1.5	1.0	1.0	.0	.0	.0	.0	.0	.0
21	4.0	3.5	4.0	1.0	.5	1.0	.0	.0	.0	.0	.0	.0
22	4.0	3.0	3.5	1.0	.0	.5	.0	.0	.0	.0	.0	.0
23	3.5	2.5	3.0	1.0	.0	.5	.0	.0	.0	1.0	.0	.0
24	3.5	2.0	3.0	1.0	.0	.5	.0	.0	.0	1.5	.5	1.0
25	3.5	3.0	3.5	.0	.0	.0	.0	.0	.0	1.5	.5	1.0
26	3.0	2.0	2.5	.0	.0	.0	.0	.0	.0	1.5	.5	1.0
27	3.0	2.5	2.5	.0	.0	.0	1.5	.0	.5	1.5	1.0	1.5
28	2.5	1.5	2.0	.0	.0	.0	1.5	.0	1.0	1.0	.0	.5
29	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0	.5	.0	.5
30	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	2.0	1.5	1.5	---	---	---	.0	.0	.0	.5	.0	.0
MONTH	8.0	1.5	4.4	2.5	.0	.8	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.0	1.5	.5	1.0	4.0	1.0	2.0	7.5	4.0	5.5
2	1.5	.5	1.0	1.5	.0	.5	4.0	2.0	2.5	8.0	4.0	6.0
3	1.0	.0	1.0	2.0	1.0	1.5	4.0	1.5	2.5	9.0	4.0	6.0
4	1.0	1.0	1.0	2.5	1.0	1.5	3.0	1.5	2.0	8.5	4.5	6.5
5	1.5	1.0	1.5	2.0	.0	1.0	3.5	1.5	2.5	9.0	4.5	6.5
6	2.0	1.5	2.0	1.5	.0	.5	4.0	1.0	2.5	10.5	4.5	7.0
7	2.0	1.5	2.0	1.5	.0	.5	4.0	1.5	2.5	9.5	6.0	7.5
8	2.0	1.5	1.5	1.0	.0	.0	4.0	1.5	2.5	10.5	5.5	7.5
9	2.0	1.0	1.5	1.0	.0	.0	4.5	1.0	2.5	10.5	6.0	8.0
10	1.5	.5	1.0	.5	.0	.0	3.5	1.0	2.5	10.5	5.5	7.5
11	1.5	.0	.5	1.0	.0	.5	3.5	1.5	2.5	10.5	5.5	8.0
12	2.0	1.5	1.5	2.0	1.0	1.5	5.0	2.0	3.0	11.5	5.5	8.5
13	1.5	.0	1.0	2.5	1.0	1.5	5.0	1.5	3.0	11.5	6.0	8.5
14	.5	.0	.0	2.5	1.5	2.0	5.0	1.5	3.0	9.5	7.5	8.5
15	.0	.0	.0	2.5	1.5	2.0	5.0	1.5	3.0	9.5	7.5	8.5
16	1.0	.0	.0	2.5	1.5	2.0	5.5	2.0	3.0	10.5	7.0	8.5
17	1.5	1.0	1.0	2.5	1.5	2.0	4.5	2.5	3.5	10.5	7.5	8.5
18	1.5	1.0	1.0	2.5	1.5	2.0	4.5	2.5	3.5	11.5	7.5	9.5
19	2.0	1.5	1.5	2.5	1.0	1.5	5.0	2.5	3.5	10.0	8.0	9.0
20	2.0	1.0	1.5	3.0	1.5	2.5	5.0	2.5	3.5	11.5	7.5	9.0
21	2.0	1.0	1.5	3.0	1.5	2.0	5.0	2.5	3.5	11.0	7.0	9.0
22	1.0	.0	.5	3.0	1.5	2.0	5.5	2.5	3.5	11.0	7.5	9.0
23	.5	.0	.0	3.0	1.5	2.0	6.5	2.5	4.0	10.5	8.0	9.0
24	.5	.0	.0	3.0	1.5	2.0	6.5	2.0	4.0	11.5	7.0	9.0
25	.0	.0	.0	3.0	1.5	2.0	5.5	2.5	4.0	12.0	7.0	9.5
26	1.0	.0	.0	2.5	.5	2.0	7.5	3.0	5.0	12.0	7.5	9.5
27	1.0	.0	.0	1.5	.0	.5	7.5	3.5	5.0	12.5	7.5	10.0
28	1.5	.5	1.0	2.0	.0	1.0	8.0	3.0	5.5	12.5	8.0	10.0
29	2.0	1.0	1.5	3.0	1.0	2.0	8.0	4.5	6.0	13.0	8.5	10.5
30	---	---	---	3.0	1.5	2.0	6.5	4.0	5.0	12.0	9.0	10.5
31	---	---	---	2.0	1.0	1.5	---	---	---	11.5	9.5	10.5
MONTH	2.0	.0	.9	3.0	.0	1.4	8.0	1.0	3.4	13.0	4.0	8.4

15275100 CHESTER CREEK AT ARCTIC BOULEVARD AT ANCHORAGE--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.5	9.0	10.5	14.5	11.5	13.0	12.0	9.5	11.0	10.0	9.0	10.0
2	13.0	9.0	10.5	14.5	12.0	13.5	12.5	10.0	11.0	10.5	8.0	9.5
3	13.0	9.0	11.0	14.0	12.0	12.5	13.0	11.0	12.0	13.0	9.0	10.0
4	14.5	9.0	11.5	14.5	11.5	13.0	12.5	11.0	11.5	11.0	9.0	9.5
5	14.0	10.5	12.0	14.0	12.0	13.0	12.5	10.5	11.5	10.0	8.5	9.0
6	12.5	10.0	11.5	14.0	12.0	13.0	12.5	10.0	11.0	10.0	8.5	9.5
7	11.5	10.5	11.0	15.0	11.5	13.0	12.5	9.5	11.0	10.5	8.5	9.5
8	13.0	9.5	11.5	13.5	12.0	12.5	13.0	10.5	11.5	10.5	8.5	9.0
9	14.0	10.0	12.0	13.0	12.0	12.5	13.5	10.5	12.0	10.0	7.0	8.5
10	12.0	10.5	11.0	13.0	11.0	12.0	13.0	10.0	12.0	9.0	6.5	8.0
11	13.5	9.5	11.5	14.5	11.5	12.5	14.0	11.0	12.5	9.0	6.0	7.5
12	14.0	10.0	12.0	15.5	12.0	13.5	14.0	11.0	12.5	8.5	5.5	7.0
13	12.5	10.5	11.5	13.0	12.0	12.5	16.0	11.0	13.0	8.5	5.5	7.0
14	14.0	10.5	12.0	13.0	11.5	12.0	14.0	11.0	13.0	8.5	6.0	7.0
15	13.5	10.0	11.5	12.5	11.0	12.0	13.0	10.0	11.5	10.0	8.0	8.5
16	13.5	10.5	12.0	14.0	11.0	12.5	13.0	9.5	11.0	11.5	9.0	10.0
17	15.0	11.0	12.0	12.0	11.0	12.0	12.5	9.5	11.0	10.0	8.5	9.0
18	14.0	10.5	12.0	12.5	10.5	11.5	13.0	11.0	12.0	9.5	9.0	9.0
19	12.5	11.0	11.5	12.5	10.5	11.5	13.0	10.5	11.5	9.5	9.0	9.0
20	12.5	10.5	11.0	13.0	11.0	11.5	12.0	10.0	10.5	---	9.0	---
21	13.5	10.5	12.0	11.0	10.0	10.5	12.5	10.0	10.5	---	---	---
22	13.5	11.0	12.0	11.0	9.5	10.0	11.5	10.0	10.5	---	---	---
23	14.5	11.0	12.5	11.5	9.0	10.0	11.5	8.5	10.0	---	---	---
24	15.5	11.5	13.0	11.5	9.5	10.5	11.5	10.0	10.5	---	---	---
25	14.5	12.0	13.0	12.0	9.0	10.5	11.0	9.0	10.0	---	---	---
26	14.5	12.0	13.0	13.0	10.5	11.5	11.0	7.5	9.5	---	---	---
27	---	12.0	---	11.5	10.0	11.0	11.0	10.0	10.0	8.5	7.5	8.0
28	---	---	---	13.5	10.0	11.5	11.0	9.5	10.0	8.0	6.5	7.0
29	13.5	12.5	13.0	12.0	11.0	11.5	12.0	9.0	10.5	7.0	5.0	6.0
30	13.5	12.0	12.5	12.5	10.5	11.0	11.0	9.0	10.0	6.5	4.5	5.5
31	---	---	---	12.0	10.0	11.0	10.5	8.0	9.5	---	---	---
MONTH	---	---	---	15.5	9.0	11.9	16.0	7.5	11.1	---	---	---

15276000 SHIP CREEK NEAR ANCHORAGE

LOCATION.--Lat 61°13′32″, long 149°38′06″, in SW¼ SE¼ sec. 9, T. 13 N., R. 2 W. (Anchorage A-8 quad), Municipality of Anchorage, Hydrologic Unit 19020401, in Fort Richardson Military Reservation, on left bank, 800 ft downstream from diversion dam, 3.3 mi upstream from North Fork Ship Creek, and 7.8 mi east of intersection of Seward and Glenn Highways in Anchorage.

DRAINAGE AREA.--90.5 mi^2.

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WSP 1936: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 490 ft above sea level, from topographic map. Prior to August 22, 1985, water-stage recorder at dam 800 ft upstream. See WSP 1936 for history of changes prior to October 1, 1954.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Discharge data represent the net flow remaining after diversion for water supply to Fort Richardson, Elmendorf Air Force Base, and Municipality of Anchorage. Average diversion for water year 2000 was 12.4 ft^3/s. Diversion began in 1944. Magnitude of discharges downstream of dam may be affected by periodic spillway adjustment.

COOPERATION.--Gage inspected and records of diversion provided by Office of Post Engineers, Fort Richardson.

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	238	e110	e60	e65	e42	e32	27	70	374	615	307	186
2	234	e110	e60	e60	e44	e30	28	74	416	609	309	185
3	227	e110	e60	e60	e46	e30	30	79	469	602	333	178
4	218	e100	e60	e55	e48	e30	35	83	522	589	380	177
5	210	e100	e60	e55	e44	e30	34	78	612	648	366	168
6	197	e100	e55	e50	e42	e30	33	83	679	603	318	167
7	185	e95	e55	e50	e42	e30	33	92	795	576	285	167
8	175	e95	e55	e50	e42	e30	33	95	880	560	273	158
9	165	e90	e55	e48	e40	e30	33	98	842	534	249	153
10	157	e90	e55	e48	e40	e30	33	104	789	486	236	161
11	147	e85	e55	e46	e40	e30	33	109	761	448	225	162
12	148	e85	e55	e46	e40	e30	34	125	754	454	217	153
13	144	e85	e50	e46	e40	e30	35	141	752	503	235	149
14	e140	e80	e50	e44	e40	e30	37	158	723	487	328	146
15	e140	e80	e50	e44	e40	e30	39	165	714	461	290	142
16	e130	e80	e50	e44	e40	e30	41	172	674	522	249	140
17	e150	e75	e50	e44	e38	e30	41	185	644	628	226	136
18	e240	e75	e48	e44	e38	e28	40	202	611	699	221	132
19	e250	e75	e50	e44	e38	e28	41	224	598	587	223	129
20	e210	e75	e65	e44	e38	e28	42	227	577	502	238	126
21	e180	e70	e110	e44	e36	e28	46	220	528	462	245	135
22	e170	e70	e170	e44	e36	e28	45	214	511	423	238	183
23	e160	e70	e80	e44	e36	e28	41	205	528	395	223	227
24	e150	e70	e55	e44	e34	e28	43	204	604	368	215	319
25	e140	e70	e65	e44	e34	e28	43	207	646	343	209	346
26	e140	e65	e110	e44	e34	e28	43	217	649	330	196	404
27	e130	e65	e150	e44	e32	e28	49	233	689	319	198	370
28	e130	e65	e80	e42	e32	e28	56	259	717	344	187	331
29	e120	e65	e70	e42	e32	e28	65	298	706	376	193	289
30	e120	e60	e70	e42	---	28	68	336	657	375	200	e260
31	e120	---	e65	e42	---	28	---	361	---	341	189	---
TOTAL	5265	2465	2123	1463	1128	904	1201	5318	19421	15189	7801	5979
MEAN	170	82.2	68.5	47.2	38.9	29.2	40.0	172	647	490	252	199
MAX	250	110	170	65	48	32	68	361	880	699	380	404
MIN	120	60	48	42	32	28	27	70	374	319	187	126
AC-FT	10440	4890	4210	2900	2240	1790	2380	10550	38520	30130	15470	11860

ADJUSTED TO INCLUDE DIVERSION

MEAN	193	102	83.9	63.7	56.1	43.8	47.4	179	655	497	258	206
CFSM	2.14	1.13	0.93	0.70	0.62	0.48	0.52	1.97	7.24	5.49	2.85	2.27
IN	2.46	1.26	1.07	0.81	0.67	0.56	0.58	2.28	8.08	6.33	3.29	2.53
AC-FT	11890	6060	5160	3920	3230	2700	2820	10990	39000	30540	15860	12240

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2000, BY WATER YEAR (WY) #

MEAN	151	77.7	47.1	30.9	21.8	16.3	24.7	168	461	308	211	214
MAX	367	177	107	79.3	54.6	42.1	70.1	492	798	645	510	471
(WY)	1994	1953	1948	1961	1961	1947	1990	1990	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	141	73.6	74.6	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1996	1996	1996	1969

See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1947 - 2000 #	
ANNUAL TOTAL	50079		68257			
ANNUAL MEAN	137		186		145	
ANNUAL MEAN	*155		*199		*199	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	616	Jun 14	880	Jun 8	1810	Aug 27 1989
LOWEST DAILY MEAN	a20	Apr 7	27	Apr 1	b.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	22	Apr 3	28	Mar 26	.43	Jan 9 1956
INSTANTANEOUS PEAK FLOW			931	Jun 8	1860.	Jun 21 1949
INSTANTANEOUS PEAK STAGE			6.09	Jun 8	c3.44	Jun 21 1949
INSTANTANEOUS PEAK STAGE					d6.52	Sep 21 1995
ANNUAL RUNOFF (AC-FT)	99330		135400		104800	
ANNUAL RUNOFF (AC-FT)	*112300		*144400		*118100	
ANNUAL RUNOFF (CFSM)	*1.71		*2.20		*1.80	
ANNUAL RUNOFF (IN)	*23.26		*29.92		*24.46	
10 PERCENT EXCEEDS	282		528		371	
50 PERCENT EXCEEDS	95		100		76	
90 PERCENT EXCEEDS	26		32		14	

\# See Period of Record and Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted
* Adjusted to account for diversion, see Remarks
a Apr. 7 to Apr. 8
b No flow during one or more days in water years 1956, 1960, 1969, and 1971
c Site and datum then in use
d Current site and datum

15278000 EKLUTNA LAKE NEAR PALMER

LOCATION.--Lat 61°24′39″, long 149°07′20″, in NE¼ NE¼ sec. 18, T. 15 N., R. 2 E. (Anchorage B-6 quad), Municipality of Anchorage, Hydrologic Unit 19020402, on north shore, 0.7 mi upstream from lake outlet, 12 mi upstream from mouth of Eklutna River, and 14 mi south of Palmer.

DRAINAGE AREA.--119 mi^2.

PERIOD OF RECORD.--November 1946 to September 1962 (fragmentary after January 1955), June 1983 to current year. Fragmentary records for the period October 1962 to June 1983 available from Eklutna Hydroelectric Project.

GAGE.--Water-stage recorder. Datum of gage is sea level (levels by Alaska Power Administration). Prior to June 1983, non-recording gage at lake outlet at datum of 859.8 ft above sea level.

REMARKS.--Lake outlet consists of earth and rockfill dam with uncontrolled spillway crest at an elevation of 871 ft. Prior to 1965, control structure 1400 ft upstream with spillway crest at elevation of 867.5 ft which could be flash-boarded to elevation of 871 ft. Outflow was controlled by the flash boards and sluice gates. Dead storage below elevation of 859 ft. Reservoir is used for power generation and water supply. GOES satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 877.68 ft, September 25, 1995; minimum observed, 814.2 ft, June 1, 1962.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 860.72 ft, October 1; minimum, 824.66 ft, June 6.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	860.58	856.16	853.41	851.49	848.14	841.56	835.29	829.66	825.13	829.20	843.91	850.61
2	860.32	856.00	853.35	851.42	848.01	841.38	835.05	829.53	825.02	829.73	844.21	850.66
3	860.04	855.82	853.28	851.34	847.94	841.16	834.80	829.36	824.88	830.26	844.65	850.68
4	859.76	855.68	853.21	851.26	847.82	840.93	834.56	829.13	824.80	830.81	845.19	850.71
5	859.47	855.61	853.14	851.16	847.67	840.81	834.38	828.90	824.71	831.41	845.76	850.66
6	859.18	855.58	853.05	851.08	847.48	840.65	834.20	828.72	824.74	832.00	846.18	850.60
7	858.90	855.53	852.95	851.01	847.24	840.41	833.99	828.59	824.84	832.57	846.47	850.64
8	858.61	855.46	852.86	850.91	846.98	840.10	833.75	828.44	825.01	833.14	846.69	850.69
9	858.29	855.39	852.77	850.76	846.65	839.79	833.51	828.24	825.20	833.66	846.87	850.68
10	857.99	855.30	852.68	850.44	846.30	839.47	833.28	828.07	825.34	834.13	847.04	850.65
11	857.70	855.20	852.61	850.28	846.00	839.17	833.08	827.87	825.45	834.55	847.17	850.63
12	857.37	855.11	852.52	850.18	845.74	838.93	---	827.69	825.52	835.00	847.32	850.61
13	857.05	855.03	852.41	---	845.50	838.74	832.61	827.53	825.62	835.73	847.58	850.60
14	856.72	854.95	852.32	849.95	845.24	838.51	832.47	827.43	825.71	836.55	848.11	850.60
15	856.37	854.87	852.24	849.92	844.98	838.32	832.28	827.32	825.81	837.29	848.63	850.57
16	856.02	854.82	852.15	849.89	844.74	838.07	832.10	827.18	825.88	837.99	848.99	850.51
17	855.69	854.77	852.07	849.81	844.50	837.85	831.94	827.05	825.95	838.77	849.24	850.44
18	855.51	854.72	852.00	849.68	844.25	837.63	831.67	826.91	826.07	839.43	849.45	850.33
19	855.65	854.66	851.93	849.53	844.05	837.40	831.40	826.78	826.20	839.95	849.62	850.25
20	855.78	854.58	851.88	849.41	843.85	837.19	831.15	826.71	826.30	840.35	849.78	850.17
21	855.89	854.49	851.87	849.27	843.68	837.00	830.99	826.63	826.37	840.67	849.93	850.14
22	855.98	854.38	851.94	849.18	843.54	836.79	830.88	826.51	826.44	840.94	850.07	850.21
23	856.07	854.31	851.93	849.11	843.33	836.61	830.73	826.38	826.50	841.23	850.16	850.31
24	856.15	854.23	851.84	849.02	843.07	836.45	830.59	826.29	826.65	841.50	850.22	850.43
25	856.23	854.13	851.76	848.97	842.72	836.28	830.45	826.19	826.82	841.73	850.26	850.64
26	856.34	853.99	851.70	848.88	842.41	836.09	830.30	826.10	827.05	841.99	850.26	850.95
27	856.43	853.83	851.74	848.84	842.17	835.94	830.16	826.01	827.35	842.25	850.26	851.14
28	856.50	853.66	851.77	848.70	841.97	835.78	830.01	825.82	827.78	842.58	850.24	851.28
29	856.56	853.54	851.74	848.54	841.77	835.64	829.89	825.62	828.23	842.90	850.31	851.41
30	856.46	853.48	851.65	848.40	---	835.50	829.79	825.43	828.71	843.32	850.45	851.52
31	856.30	---	851.56	848.29	---	835.39	---	825.27	---	843.67	850.52	---
MEAN	857.29	854.84	852.33	---	845.09	838.24	---	827.33	826.00	837.27	848.24	850.64
MAX	860.58	856.16	853.41	---	848.14	841.56	---	829.66	828.71	843.67	850.52	851.52
MIN	855.51	853.48	851.56	---	841.77	835.39	---	825.27	824.71	829.20	843.91	850.14

15281500 CAMP CREEK NEAR SHEEP MOUNTAIN LODGE

LOCATION.--Lat 61°50′20″, long 147°24′31", in SE¼ SE¼ NW¼ sec. 11, T. 20 N., R. 11 E. (Anchorage D-2 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020402, on left bank 5 ft downstream from culvert on Glenn Highway, and 3.5 mi northeast of Sheep Mountain Lodge.

DRAINAGE AREA.--1.09 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Annual maximum, water years 1968-69, 1971, 1989-95. October 1995 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2950 ft above sea level, from topographic map. Prior to 1971 crest-stage gage at site above culvert at different datum, June 2, 1989 to September 30, 1995, crest-stage gage at same site, and datum.

REMARKS.--Records are poor.

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	.72	.59	e.30	e.00	e.00	e.00	e.00	e.00	e5.5	4.5	1.7	2.3
2	.69	e.59	e.25	e.00	e.00	e.00	e.00	e.00	e7.0	4.3	1.7	2.2
3	.71	e.59	e.10	e.00	e.00	e.00	e.00	e.00	e8.5	4.2	1.7	2.2
4	.72	e.58	e.00	e.00	e.00	e.00	e.00	e.00	8.9	3.8	1.7	2.3
5	.73	e.58	e.00	e.00	e.00	e.00	e.00	e.00	9.4	3.7	1.6	2.4
6	.72	e.58	e.00	e.00	e.00	e.00	e.00	e.00	12	3.6	1.6	2.5
7	.71	e.57	e.00	e.00	e.00	e.00	e.00	e.00	11	3.3	1.6	2.7
8	.70	e.57	e.00	e.00	e.00	e.00	e.00	e.00	10	3.0	1.6	2.7
9	.70	e.56	e.00	e.00	e.00	e.00	e.00	e.00	9.5	2.6	1.6	2.7
10	.68	e.56	e.00	e.00	e.00	e.00	e.00	e.00	10	2.5	1.6	2.7
11	.76	.55	e.00	e.00	e.00	e.00	e.00	e.00	10	2.7	1.6	2.7
12	e.68	.55	e.00	e.00	e.00	e.00	e.00	e.00	10	4.3	1.6	2.7
13	.67	.56	e.00	e.00	e.00	e.00	e.00	e.00	10	4.2	1.5	2.7
14	.66	.55	e.00	e.00	e.00	e.00	e.00	e.00	9.0	3.1	1.6	2.6
15	.66	e.55	e.00	e.00	e.00	e.00	e.00	e.00	8.5	2.6	1.6	2.5
16	e.65	e.56	e.00	e.00	e.00	e.00	e.00	e.10	7.7	2.4	1.6	2.6
17	e.65	.56	e.00	e.00	e.00	e.00	e.00	e.20	8.7	2.3	1.7	2.5
18	.69	.57	e.00	e.00	e.00	e.00	e.00	e.30	8.5	2.1	1.8	2.5
19	.65	.57	e.00	e.00	e.00	e.00	e.00	e.40	7.8	1.9	1.8	2.5
20	.63	.57	e.00	e.00	e.00	e.00	e.00	e.50	7.0	1.8	1.9	2.5
21	.64	.57	e.00	e.00	e.00	e.00	e.00	e.60	6.4	1.8	2.0	2.5
22	.64	.56	e.00	e.00	e.00	e.00	e.00	e.70	6.6	1.7	2.2	2.6
23	.61	.52	e.00	e.00	e.00	e.00	e.00	e.80	8.6	1.6	2.5	3.1
24	.62	.53	e.00	e.00	e.00	e.00	e.00	e.90	9.4	1.5	2.5	3.4
25	.62	.56	e.00	e.00	e.00	e.00	e.00	e1.0	8.4	1.4	2.4	3.5
26	.61	.56	e.00	e.00	e.00	e.00	e.00	e1.5	8.4	1.4	2.4	3.3
27	.60	e.50	e.00	e.00	e.00	e.00	e.00	e2.0	8.7	1.5	2.3	2.9
28	.60	e.45	e.00	e.00	e.00	e.00	e.00	e2.5	9.2	1.8	2.3	2.7
29	.59	e.40	e.00	e.00	e.00	e.00	e.00	e3.0	5.4	1.8	2.3	e2.5
30	.60	e.35	e.00	e.00	---	e.00	e.00	e3.5	4.8	1.7	2.3	e2.0
31	.58	---	e.00	e.00	---	e.00	---	e4.5	---	1.7	2.3	---
TOTAL	20.49	16.36	0.65	0.00	0.00	0.00	0.00	22.50	254.9	80.8	58.6	79.0
MEAN	.66	.55	.021	.000	.000	.000	.000	.73	8.50	2.61	1.89	2.63
MAX	.76	.59	.30	.00	.00	.00	.00	4.5	12	4.5	2.5	3.5
MIN	.58	.35	.00	.00	.00	.00	.00	.00	4.8	1.4	1.5	2.0
AC-FT	41	32	1.3	.00	.00	.00	.00	45	506	160	116	157
CFSM	.61	.50	.02	.00	.00	.00	.00	.67	7.80	2.39	1.73	2.42
IN.	.70	.56	.02	.00	.00	.00	.00	.77	8.70	2.76	2.00	2.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)#

MEAN	.55	.32	.12	.012	.000	.000	.023	.85	3.68	1.74	1.64	1.32
MAX	1.12	.65	.39	.042	.000	.000	.058	1.55	8.50	2.61	3.58	2.63
(WY)	1998	1998	1998	1999	1996	1996	1996	1998	2000	2000	1997	2000
MIN	.17	.017	.003	.000	.000	.000	.000	.25	.56	.42	.40	.45
(WY)	1997	1997	1997	1996	1996	1996	1999	1999	1996	1996	1996	1998

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000#	
ANNUAL TOTAL	241.88		533.30			
ANNUAL MEAN	.66		1.46		.86	
HIGHEST ANNUAL MEAN					1.46	2000
LOWEST ANNUAL MEAN					.26	1996
HIGHEST DAILY MEAN	4.4	Jun 21	12	Jun 6	17	Jun 7 1997
LOWEST DAILY MEAN	a.00	Jan 16	b.00	Dec 4	c.00	Dec 6 1995
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 16	.00	Dec 4	.00	Dec 6 1995
INSTANTANEOUS PEAK FLOW			26	Jun 28	f46	Jul 21 1992
INSTANTANEOUS PEAK STAGE			15.49	Jun 28	15.49	Jun 28 2000
ANNUAL RUNOFF (AC-FT)	480		1060		620	
ANNUAL RUNOFF (CFSM)	.61		1.34		.78	
ANNUAL RUNOFF (INCHES)	8.25		18.20		10.66	
10 PERCENT EXCEEDS	1.6		3.9		2.4	
50 PERCENT EXCEEDS	.45		.56		.29	
90 PERCENT EXCEEDS	.00		.00		.00	

\# See Period of Record
a Jan. 16 to May 3 and Dec. 4 to Dec. 31
b Dec 4 to May 15
c No flow most days during winter
e Estimated
f From rating curve extended above 2 ft^3/s

15281500 CAMP CREEK NEAR SHEEP MOUNTAIN LODGE--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1996 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1996 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set for 1-hour recording interval.

REMARKS.--No record from December 7 to May 20 due to missing record, frozen probe, and no flow conditions. Records represent water temperature at the sensor within 0.5° C. Large stream icing forms near the gage.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 9.5 °C, on several days in June and July 1997 and June 29-30, July 1, 1998; minimum, 0.0 °C, on many days during fall, winter, and spring breakup periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 8.5 °C, July 3-5, 7, 8 and 23-26; minimum, 0.0 °C, on many days during fall, winter, and spring breakup periods.

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	2.0	1.0	1.5	.5	.0	.0	.0	.0	.0	---	---	---
2	2.5	1.5	1.5	.5	.0	.0	.0	.0	.0	---	---	---
3	2.5	1.0	1.5	.5	.0	.0	.0	.0	.0	---	---	---
4	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0	---	---	---
5	2.0	1.0	1.0	.5	.0	.0	.0	.0	.0	---	---	---
6	1.5	1.0	1.5	.5	.0	.5	.0	.0	.0	---	---	---
7	2.0	1.0	1.5	.5	.0	.0	---	---	---	---	---	---
8	1.5	1.0	1.0	.0	.0	.0	---	---	---	---	---	---
9	1.5	.0	.5	.0	.0	.0	---	---	---	---	---	---
10	1.0	.0	.5	.5	.0	.0	---	---	---	---	---	---
11	1.0	.0	.5	.0	.0	.0	---	---	---	---	---	---
12	.5	.0	.5	.0	.0	.0	---	---	---	---	---	---
13	.5	.5	.5	.0	.0	.0	---	---	---	---	---	---
14	.5	.0	.5	.0	.0	.0	---	---	---	---	---	---
15	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
16	.5	.0	.0	.0	.0	.0	---	---	---	---	---	---
17	.5	.5	.5	.0	.0	.0	---	---	---	---	---	---
18	1.0	.5	.5	.0	.0	.0	---	---	---	---	---	---
19	1.0	.5	.5	.0	.0	.0	---	---	---	---	---	---
20	.5	.5	.5	.0	.0	.0	---	---	---	---	---	---
21	.5	.5	.5	.0	.0	.0	---	---	---	---	---	---
22	.5	.5	.5	.0	.0	.0	---	---	---	---	---	---
23	.5	.5	.5	.0	.0	.0	---	---	---	---	---	---
24	.5	.0	.0	.0	.0	.0	---	---	---	---	---	---
25	.5	.0	.0	.0	.0	.0	---	---	---	---	---	---
26	.5	.0	.5	.0	.0	.0	---	---	---	---	---	---
27	.5	.0	.0	.0	.0	.0	---	---	---	---	---	---
28	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
29	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
30	.0	.0	.0	.0	.0	.0	---	---	---	---	---	---
31	.0	.0	.0	---	---	---	---	---	---	---	---	---
MONTH	2.5	.0	.6	.5	.0	.0	---	---	---	---	---	---

15281500 CAMP CREEK NEAR SHEEP MOUNTAIN LODGE--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	.0	.0	.0
22	---	---	---	---	---	---	---	---	---	.0	.0	.0
23	---	---	---	---	---	---	---	---	---	.0	.0	.0
24	---	---	---	---	---	---	---	---	---	.0	.0	.0
25	---	---	---	---	---	---	---	---	---	.0	.0	.0
26	---	---	---	---	---	---	---	---	---	.0	.0	.0
27	---	---	---	---	---	---	---	---	---	.0	.0	.0
28	---	---	---	---	---	---	---	---	---	.0	.0	.0
29	---	---	---	---	---	---	---	---	---	.0	.0	.0
30	---	---	---	---	---	---	---	---	---	.5	.0	.0
31	---	---	---	---	---	---	---	---	---	.5	.0	.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	1.0	.5	.5	7.5	4.0	5.0	8.0	6.0	7.0	5.5	4.5	4.5
2	1.5	.5	1.0	8.0	4.5	6.0	8.0	6.0	7.0	5.0	4.0	4.5
3	2.0	.5	1.0	8.5	4.5	6.0	8.0	6.0	6.5	5.0	4.0	4.5
4	2.0	1.0	1.5	8.5	5.0	6.5	8.0	6.0	7.0	4.5	4.0	4.0
5	2.5	1.0	1.5	8.5	5.5	6.5	8.0	6.5	7.0	4.5	3.0	4.0
6	2.5	1.0	1.5	7.5	5.0	6.0	8.0	6.5	7.0	4.5	3.5	4.0
7	3.0	1.5	2.0	8.5	5.0	6.5	7.5	5.5	6.5	4.0	3.0	3.5
8	3.5	2.0	2.5	8.5	5.5	7.0	7.5	6.0	7.0	4.0	2.5	3.0
9	3.0	2.0	2.5	8.0	6.0	6.5	7.5	6.0	6.5	3.5	2.0	2.5
10	3.5	2.0	2.5	8.0	6.0	6.5	7.5	6.0	6.5	3.0	2.5	2.5
11	4.0	2.0	2.5	8.0	6.0	6.0	7.5	6.0	6.5	3.5	2.5	2.5
12	4.0	2.0	3.0	8.0	6.5	7.0	7.5	6.0	6.5	3.5	2.5	2.5
13	4.0	2.0	3.0	7.5	5.0	5.5	7.5	6.0	7.0	3.0	2.0	2.5
14	4.0	2.5	3.0	8.0	5.0	6.0	7.5	6.0	7.0	3.0	2.0	2.5
15	4.5	2.0	3.0	8.0	5.0	6.5	7.0	5.5	6.0	3.5	2.0	2.5
16	4.0	2.5	3.0	8.0	5.5	6.5	6.5	5.5	6.0	3.5	2.5	2.5
17	4.0	2.5	3.0	8.0	5.0	6.0	6.5	5.0	6.0	2.5	2.0	2.5
18	4.5	2.5	3.5	8.0	5.0	6.0	6.5	6.0	6.0	2.5	1.5	2.0
19	4.5	2.0	3.0	7.5	5.5	6.0	6.5	5.5	6.0	2.5	1.0	1.5
20	4.5	2.5	3.0	7.5	5.5	6.5	6.0	5.0	5.5	2.5	1.0	1.5
21	4.0	2.5	3.5	7.5	5.5	6.5	6.0	5.0	5.5	3.0	1.5	2.0
22	5.0	2.5	3.5	7.0	5.5	6.0	6.0	5.0	5.5	3.0	2.5	3.0
23	6.0	3.0	4.0	8.5	5.5	6.5	6.0	4.0	5.0	3.0	2.0	2.5
24	6.0	3.0	4.0	8.5	5.5	7.0	6.0	4.5	5.0	2.5	2.0	2.0
25	6.0	3.0	4.0	8.5	6.0	7.0	5.5	4.5	4.5	3.0	2.0	2.5
26	6.0	3.0	4.5	8.5	6.5	7.5	5.5	3.5	4.5	3.0	1.0	2.0
27	6.5	3.5	4.5	8.0	6.0	7.0	5.5	4.0	4.5	2.0	.5	1.0
28	6.5	3.0	4.0	8.0	6.0	7.0	5.5	4.5	4.5	.5	.0	.5
29	7.0	4.0	5.0	8.0	6.0	7.0	5.5	4.0	4.5	.5	.0	.5
30	7.0	4.0	5.0	7.5	6.0	6.5	5.0	4.0	4.5	.5	.0	.5
31	---	---	---	7.5	5.5	6.5	5.5	3.5	4.5	---	---	---
MONTH	7.0	.5	3.0	8.5	4.0	6.4	8.0	3.5	5.9	5.5	.0	2.5

15283700 MOOSE CREEK NEAR PALMER

LOCATION.--Lat 61°41′00″, long 149°02′36″, in NE¼ NE¼ sec. 2, T. 18 N., R. 2 E. (Anchorage C-6 quad), Hydrologic Unit 19020402, on right bank 0.2 mi upstream from Glenn Highway bridge over Moose Creek, 0.8 mi upstream from mouth and 6.5 mi north of Palmer.

DRAINAGE AREA.--47.3 mi^2, revised.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 450 ft above sea level, from topographic map.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge, 18,000 ft^3/s, August 10, 1971 (at site 0.3 mi upstream from Buffalo Creek mine and 5 mi upstream from present gage site), gage height not determined.

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

REVISIONS.--Revised maximum discharges and daily discharges in cubic feet per second for water year 1999 are given below. These figures supersede those published in the report for 1999.

1999 WATER YEAR:

Maximum discharge 604 ft^3/s, August 13, gage-height, 14.61 ft.

DAY	JUN	JUL	AUG	SEP
1	101	223	229	128
2	100	224	210	131
3	99	241	186	171
4	108	236	167	166
5	130	218	157	147
6	174	195	142	132
7	208	176	133	123
8	259	163	127	117
9	329	139	130	109
10	324	131	125	103
11	325	131	115	96
12	351	130	234	93
13	400	115	508	91
14	403	116	382	87
15	377	117	455	88
16	390	145	387	89
17	447	190	322	83
18	390	172	270	80
19	325	160	231	88
20	381	165	202	84
21	307	205	179	85
22	239	185	161	84
23	213	149	146	79
24	241	142	137	77
25	256	150	203	82
26	244	175	218	79
27	221	188	181	75
28	199	190	165	96
29	206	174	147	96
30	210	304	137	103
31	---	274	127	---
TOTAL	7957	5523	6513	3062
MEAN	265	178	210	102
MAX	447	304	508	171
MIN	99	115	115	75
AC-FT	15780	10950	12920	6070
CFSM	5.61	3.77	4.44	2.16
IN.	6.26	4.34	5.12	2.41

WTR YR 1999 TOTAL 31773 MEAN 87.0 MAX 508 MIN 13 AC-FT 63020 CFSM 1.84 IN. 24.99

15283700 MOOSE CREEK NEAR PALMER--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	122	e75	e34	e20	e22	e18	e16	82	137	487	188	183
2	125	e70	e32	e20	e22	e18	e16	84	162	460	227	186
3	132	e70	e32	e20	e22	e18	e16	89	216	425	248	171
4	113	e70	e30	e20	e22	e18	e16	95	282	437	226	156
5	103	e70	e30	e22	e22	e18	e18	82	346	476	200	152
6	97	e65	e28	e22	e22	e17	e18	92	389	408	193	145
7	91	e65	e28	e22	e22	e17	e18	93	344	372	167	129
8	88	e65	e26	e22	e22	e17	e18	88	308	376	166	137
9	83	e65	e26	e22	e20	e17	e20	88	325	332	163	127
10	80	e65	e25	e22	e20	e17	22	86	368	301	154	127
11	77	e60	e24	e22	e20	e17	23	82	366	285	144	122
12	76	e60	e24	e22	e20	e17	23	85	416	328	139	127
13	75	e60	e22	e22	e20	e17	25	89	480	436	153	114
14	73	e60	e22	e22	e20	e17	27	91	457	462	258	109
15	71	e55	e20	e22	e20	e17	31	83	402	378	238	103
16	73	e55	e20	e22	e20	e16	34	83	389	339	180	103
17	91	e55	e20	e22	e20	e16	36	80	398	364	151	101
18	214	e55	e20	e22	e20	e16	37	82	379	365	171	e95
19	217	e50	e20	e22	e20	e16	37	87	391	307	188	93
20	162	e50	e20	e22	e20	e16	39	89	339	271	185	91
21	130	e48	e26	e22	e20	e16	42	87	303	254	184	112
22	111	e48	e40	e22	e18	e16	43	81	312	245	219	754
23	96	e46	e38	e22	e18	e16	43	80	381	269	216	479
24	e95	e46	e30	e22	e18	e16	46	85	519	239	197	445
25	e95	e44	e26	e22	e18	e16	47	84	515	221	188	524
26	e90	e42	e26	e22	e18	e15	48	89	490	208	179	715
27	e85	e40	e24	e22	e18	e15	55	93	514	200	182	521
28	e80	e38	e24	e22	e18	e15	66	97	551	229	175	398
29	e80	e36	e24	e22	e18	e15	76	109	554	247	184	314
30	e75	e34	e24	e22	---	e15	76	123	510	226	232	261
31	e75	---	e20	e22	---	e16	---	129	---	199	200	---
TOTAL	3175	1662	805	674	580	511	1032	2787	11543	10146	5895	7094
MEAN	102	55.4	26.0	21.7	20.0	16.5	34.4	89.9	385	327	190	236
MAX	217	75	40	22	22	18	76	129	554	487	258	754
MIN	71	34	20	20	18	15	16	80	137	199	139	91
AC-FT	6300	3300	1600	1340	1150	1010	2050	5530	22900	20120	11690	14070
CFSM	2.17	1.17	.55	.46	.42	.35	.73	1.90	8.13	6.92	4.02	5.00
IN.	2.50	1.31	.63	.53	.46	.40	.81	2.19	9.08	7.98	4.64	5.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2000, BY WATER YEAR (WY)#

MEAN	94.9	46.6	25.4	20.4	17.4	15.3	27.3	78.2	325	219	193	156
MAX	102	55.4	26.0	21.7	20.0	16.5	34.4	89.9	385	327	210	236
(WY)	2000	2000	2000	2000	2000	2000	2000	2000	2000	2000	1999	2000
MIN	87.4	37.8	24.8	19.1	14.6	14.1	20.2	66.5	265	152	179	102
(WY)	1999	1999	1999	1999	1999	1999	1999	1999	1999	1998	1998	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1998 - 2000#	
ANNUAL TOTAL	32803		45904			
ANNUAL MEAN	89.9		125		106	
HIGHEST ANNUAL MEAN					125	2000
LOWEST ANNUAL MEAN					87.0	1999
HIGHEST DAILY MEAN	508	Aug 13	754	Sep 22	754	Sep 22 2000
LOWEST DAILY MEAN	a13	Feb 3	b15	Mar 26	a13	Feb 3 1999
ANNUAL SEVEN-DAY MINIMUM	14	Apr 8	15	Mar 24	14	Apr 8 1999
INSTANTANEOUS PEAK FLOW			1080	Sep 22	1080	Sep 22 2000
INSTANTANEOUS PEAK STAGE			15.32	Sep 22	15.32	Sep 22 2000
ANNUAL RUNOFF (AC-FT)	65060		91050		76980	
ANNUAL RUNOFF (CFSM)	1.90		2.65		2.25	
ANNUAL RUNOFF (INCHES)	25.80		36.10		30.52	
10 PERCENT EXCEEDS	217		367		258	
50 PERCENT EXCEEDS	60		75		80	
90 PERCENT EXCEEDS	14		18		16	

\# See Period of Record; partial years used in monthly statistics
a Feb. 3 to Feb. 4 and Apr. 12 to Apr. 14
b Mar. 26 to Mar. 30
e Estimated

15283700 MOOSE CREEK NEAR PALMER--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1948-49, 1951-52, 1956, 1998 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	DIS-CHARGE, STREAM WIDTH (FT) (00004)	INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	QUALITY PURPOSE SITE VISIT, (CODE) (50280)	ASSUR-ANCE DATA INDICA-TOR CODE (99111)	PH SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
NOV											
12...	1315	9	9	32.0	60	10	3045	--	--	120	7.8
APR											
05...	1345	9	9	30.0	17	10	3045	1099	--	140	7.6
JUN											
28...	1845	9	9	--	362	8010	3045	--	30	56	7.8
SEP											
23...	1445	9	9	--	431	8010	3045	--	30	78	7.6

DATE	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)	TUR-BID-ITY (NTU) (00076)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)
NOV										
12...	.0	8	.4	752	11.5	80	53	16.7	2.71	5.5
APR										
05...	1.0	10	.3	748	13.0	93	55	17.4	2.81	6.2
JUN										
28...	6.7	11	2.2	730	13.0	111	25	8.44	.93	1.3
SEP										
23...	5.5	8	7.9	--	11.5	--	32	10.6	1.25	2.4

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)
NOV										
12...	44	.6	54	44	10.9	2.3	<.1	7.1	74	75
APR										
05...	52	.6	62	52	13.2	4.9	<.1	6.2	90	84
JUN										
28...	22	.3	29	22	4.3	.4	<.1	3.9	34	34
SEP										
23...	29	.5	36	28	6.3	.8	<.1	4.6	53	45

DATE	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)
NOV										
12...	<.001	.606	.005	.11	<.10	<.008	<.006	<.001	<28	<3
APR										
05...	<.001	.481	<.002	E.10	<.10	<.008	<.006	.005	<28	<3
JUN										
28...	.001	.102	<.002	E.10	<.10	E.021	<.006	<.001	E604	<3
SEP										
23...	.001	.201	.002	--	E.10	--	E.003	.001	--	E2

15283700 MOOSE CREEK NEAR PALMER--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)
NOV										
12...	29.7	<5	<.1	<1	2	30	20	<1	<3	<2
APR										
05...	32.9	<5	<.1	<1	E1	20	E10	<1	<3	<2
JUN										
28...	E26.2	<5	<.1	E1	E3	E790	<10	<1	E22	3
SEP										
23...	--	<5	<.1	--	--	--	10	--	--	E1

DATE	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CYANIDE TOTAL (MG/L AS CN) (00720)
NOV										
12...	<.3	<2	<3	<1	<31	<1	--	1.6	<.2	<.01
APR										
05...	<.3	<2	<3	<1	<31	1	.05	.81	<.2	.01
JUN										
28...	<.3	<2	<3	<1	<31	--	--	.53	<.2	<.01
SEP										
23...	<.3	<2	<3	<1	<31	--	--	1.7	.5	<.01

15284000 MATANUSKA RIVER NEAR PALMER

LOCATION.--Lat 61°36′33″, long 149°04′15″, in SE¼ NW¼ sec. 34, T. 18 N., R. 2 E. (Anchorage C-6 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020402, on downstream left bank of old Glenn Highway bike path bridge, and 1 mi east of Palmer.

DRAINAGE AREA.--2,070 mi^2, approximately.

PERIOD OF RECORD.--April 1949 to September 1973, May 1985 to September 1986, October 1991 to September 1992, and May to September 2000. Annual maximum, water year 1974 and 1995.

GAGE.--Water-stage recorder. Datum of gage is 170.92 ft above National Geodetic Vertical Datum of 1929 (Alaska Railroad Commission benchmark, prior to Mar. 27,1964 earthquake). Prior to Nov. 2, 1950, non-recording gage at bridge 20 ft upstream at same datum. Nov.2,1950 to Apr.30,1952, non-recording gage at current site and same datum. May 1, 1952 to Sep.30, 1973, July 19 to Oct. 20, 1987, and Oct. 1, 1991 to Sep.30, 1992, water-stage recorder at site 100 ft downstream at same datum.

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

EXTREMES FOR WATER YEARS 1985, 2000.--Peak discharges greater than base discharge of 21,000 ft^3/s and maximum (*)

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jul 1, 1985	0530	*33,500	*a9.68	Jun 25, 2000	0800	c31,800	c11.08
Jul 7	0600	b26,600	a9.08	Jun 28	1100	c30,800	c11.04
Jul 14	0730	b23,200	a8.92	Jul 1	0630	c33,500	c11.15
Jul 21	0330	b24,400	a9.30	Jul 3	0600	c22,000	c10.62
1986	No peak discharges greater than base			Jul 6	0300	*c37,000	*c11.28
1992	No peak discharges greater than base			Jul 13	1300	c30,500	c11.03
Jun 7, 2000	1000	c22,000	c10.62	Jul 16	0500	c26,000	c10.88
Jun 13	0930	c26,000	c10.83				

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	---	---	---	---	---	---	---	---	5630	31300	9730	6970
2	---	---	---	---	---	---	---	---	5630	20700	11700	7300
3	---	---	---	---	---	---	---	---	7690	18600	12900	7010
4	---	---	---	---	---	---	---	---	10000	21000	14800	6540
5	---	---	---	---	---	---	---	---	13700	31300	15400	6160
6	---	---	---	---	---	---	---	---	18300	28100	15800	5770
7	---	---	---	---	---	---	---	---	19300	24100	15300	5700
8	---	---	---	---	---	---	---	---	13900	22200	15400	5630
9	---	---	---	---	---	---	---	---	12400	18900	15000	5060
10	---	---	---	---	---	---	---	---	12600	20000	13700	4580
11	---	---	---	---	---	---	---	---	15100	19800	12200	4410
12	---	---	---	---	---	---	---	---	17800	23600	11900	4340
13	---	---	---	---	---	---	---	---	21100	27400	12400	4100
14	---	---	---	---	---	---	---	---	19200	27700	14600	3840
15	---	---	---	---	---	---	---	---	16600	21800	14800	3660
16	---	---	---	---	---	---	---	---	12800	22600	11100	3510
17	---	---	---	---	---	---	---	---	10200	21600	9860	3340
18	---	---	---	---	---	---	---	---	11500	16900	9570	3120
19	---	---	---	---	---	---	---	---	12800	14300	9400	2900
20	---	---	---	---	---	---	‡808	4220	12500	14000	9450	2790
21	---	---	---	---	---	---	---	4150	11100	14000	9040	3380
22	---	---	---	---	---	---	---	3700	9830	14300	9770	10700
23	---	---	---	---	---	---	---	e3400	12700	15200	10200	10700
24	---	---	---	---	---	---	---	e3000	22400	15700	9200	10800
25	---	---	---	---	---	---	---	e3200	26500	14100	8720	10700
26	---	---	---	---	---	---	---	e3400	20800	12600	7690	12700
27	---	---	---	---	---	---	---	3510	21900	11900	7040	11700
28	---	---	---	---	---	---	---	3670	24000	10700	6240	8890
29	---	---	---	---	---	---	---	4000	21100	9500	6260	7130
30	---	---	---	---	---	---	---	4900	28900	8400	7330	6460
31	---	---	---	---	---	---	---	5550	---	8890	7170	---
TOTAL	---	---	---	---	---	---	---	---	467980	581190	343670	189890
MEAN	---	---	---	---	---	---	---	---	15600	18750	11090	6330
MAX	---	---	---	---	---	---	---	---	28900	31300	15800	12700
MIN	---	---	---	---	---	---	---	---	5630	8400	6240	2790
AC-FT	---	---	---	---	---	---	---	---	928200	1153000	681700	376600
CFSM	---	---	---	---	---	---	---	---	7.54	9.06	5.36	3.06
IN.	---	---	---	---	---	---	---	---	8.41	10.44	6.18	3.41

a Site then in use
b Not previously published
c Peak discharge adjusted to exclude surge; peak gage-height not adjusted to exclude surge
‡ Result of discharge measurement
e Estimated

15284000 MATANUSKA RIVER NEAR PALMER--Continued

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY)#

MEAN	1895	967	719	614	515	468	634	2701	10040	13150	9936	4939
MAX	2923	1793	1024	821	628	572	985	6019	17250	18750	15730	8966
(WY)	1952	1972	1972	1961	1961	1965	1964	1960	1964	2000	1971	1951
MIN	1166	568	440	349	381	360	465	1007	5415	9206	4992	2123
(WY)	1992	1959	1969	1959	1971	1971	1972	1966	1965	1973	1969	1969

SUMMARY STATISTICS	FOR 2000 WATER YEAR			WATER YEARS 1949 - 2000#		
ANNUAL MEAN				3813		
HIGHEST ANNUAL MEAN				4815		1957
LOWEST ANNUAL MEAN				2562		1969
HIGHEST DAILY MEAN	a31300	Jul	1	40700	Aug 10	1971
LOWEST DAILY MEAN				234	Apr 25	1956
ANNUAL SEVEN-DAY MINIMUM				304	Apr 20	1956
INSTANTANEOUS PEAK FLOW	c37000	Jul	6	b82100	Aug 10	1971
INSTANTANEOUS PEAK STAGE	c11.28	Jul	6	d13.60	Aug 10	1971
ANNUAL RUNOFF (AC-FT)				2762000		
ANNUAL RUNOFF (CFSM)				1.84		
ANNUAL RUNOFF (INCHES)				25.02		
10 PERCENT EXCEEDS				12200		
50 PERCENT EXCEEDS				1310		
90 PERCENT EXCEEDS				470		

\# See Period of Record; partial years used in monthly statistics
a Jul 1 and Jul 3
b From rating curve extended above 34,000 ft^3/s on basis of velocity-area study, from break-out of natural reservoir on Granite Creek tributary
c Peak discharge adjusted to exclude surge; peak gage-height not adjusted to exclude surge
d Site then in use

15286000 COTTONWOOD CREEK NEAR WASILLA

LOCATION.--Lat 61°34′30″, long 149°24′35″, in NE¼ SW¼ sec. 11, T. 17 N., R. 1 W. (Anchorage C-7 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020505, on right bank 30 ft upstream from Wasilla-Matanuska Trunk Road, 0.8 mi downstream from Wasilla Lake, and 1.1 mi southwest of Wasilla.

DRAINAGE AREA.--28.5 mi^2.

PERIOD OF RECORD.--July 1949 to September 1954 and May 1998 to September 2000 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 309 ft above sea level, from river profile survey. From July 1949 to September 1954, at same site, but at different datum.

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

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	14	e15	e14	e16	e13	e14	e13	21	24	15	15	18
2	e14	e15	e14	e16	e13	e14	e13	21	25	19	13	17
3	e15	e15	e14	e15	e16	e14	e13	21	24	17	13	17
4	e14	e15	e14	e16	e15	e14	e14	19	24	17	13	18
5	e14	e15	e14	e15	e14	e14	e14	19	24	20	13	17
6	e14	e16	e14	e15	e14	e14	e14	22	22	19	13	17
7	e14	e15	e14	e15	e13	e14	e14	20	19	19	13	17
8	e16	e15	e14	e15	e13	e14	e15	18	19	18	13	17
9	e16	e15	e14	e15	e13	e14	e15	19	19	18	12	16
10	e15	e15	e14	e15	e13	e14	e15	18	18	18	13	17
11	e14	e16	e14	e15	e13	e14	e16	18	19	17	14	17
12	e14	e15	e14	e15	e13	e14	e16	20	19	18	14	18
13	e14	e15	e14	e15	e13	e14	15	23	18	18	15	17
14	e13	e15	e14	e14	e13	e13	16	19	17	16	15	17
15	e13	e15	e14	e14	e13	e13	16	16	16	16	14	17
16	e14	e15	e14	e14	e13	e13	17	16	13	16	12	16
17	e15	e15	e14	e14	e13	e13	17	17	13	16	13	15
18	e16	e15	e13	e16	e14	e13	18	18	14	17	14	14
19	e16	e15	e14	e15	e15	e12	20	16	13	18	15	14
20	e17	e15	e20	e14	e14	e12	21	19	12	18	16	14
21	e15	e15	e22	e14	e14	e13	22	21	13	17	17	16
22	e15	e15	e22	e14	e14	e13	22	21	13	17	17	19
23	e15	e15	e21	e14	e13	e13	23	20	14	17	16	22
24	e15	e15	e21	e14	e13	e14	23	21	14	17	17	24
25	e15	e15	e20	e14	e13	e13	23	21	14	16	17	24
26	e15	e15	e20	e14	e14	e13	23	22	13	16	16	25
27	e15	e15	e20	e14	e14	e14	22	22	13	16	17	26
28	e15	e15	e19	e13	e14	e14	22	22	13	16	17	25
29	e15	e14	e18	e13	e14	e14	22	29	14	15	18	23
30	e15	e14	e18	e13	---	e13	22	27	14	15	16	23
31	e15	---	e16	e13	---	e13	---	25	---	15	16	---
TOTAL	457	450	502	449	394	418	536	631	507	527	457	557
MEAN	14.7	15.0	16.2	14.5	13.6	13.5	17.9	20.4	16.9	17.0	14.7	18.6
MAX	17	16	22	16	16	14	23	29	25	20	18	26
MIN	13	14	13	13	13	12	13	16	12	15	12	14
AC-FT	906	893	996	891	781	829	1060	1250	1010	1050	906	1100
CFSM	.52	.53	.57	.51	.48	.47	.63	.71	.59	.60	.52	.65
IN.	.60	.59	.66	.59	.51	.55	.70	.82	.66	.69	.60	.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY)#

MEAN	18.5	18.5	16.0	14.4	12.9	13.8	15.9	15.3	13.5	17.3	17.4	17.4
MAX	34.4	32.2	24.7	19.8	17.5	20.3	19.0	20.4	19.0	46.9	44.6	37.4
(WY)	1950	1953	1953	1950	1953	1950	1953	2000	1950	1949	1949	1949
MIN	12.2	11.6	9.94	8.79	8.70	10.0	11.8	11.9	9.20	9.24	12.1	11.3
(WY)	1999	1999	1999	1999	1999	1951	1999	1998	1953	1999	1952	1950

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000#	
ANNUAL TOTAL	4574.3		5885			
ANNUAL MEAN	12.5		16.1		16.0	
HIGHEST ANNUAL MEAN					43.0	1949
LOWEST ANNUAL MEAN					11.5	1999
HIGHEST DAILY MEAN	22	Aug 27	29	May 29	a55	Jul 5 1949
LOWEST DAILY MEAN	b8.0	Jan 30	c12	Mar 19	d7.0	Jul 23 1952
ANNUAL SEVEN-DAY MINIMUM	8.0	Jan 30	13	Mar 14	8.0	Aug 23 1952
INSTANTANEOUS PEAK FLOW			35	May 13	a55	Jul 5 1949
INSTANTANEOUS PEAK STAGE			10.77	May 13	10.77	May 13 2000
INSTANTANEOUS LOW FLOW					f3.54	Sep 2 1954
ANNUAL RUNOFF (AC-FT)	9070		11670		11580	
ANNUAL RUNOFF (CFSM)	.44		.56		.56	
ANNUAL RUNOFF (INCHES)	5.97		7.68		7.62	
10 PERCENT EXCEEDS	17		21		22	
50 PERCENT EXCEEDS	12		15		14	
90 PERCENT EXCEEDS	8.8		13		10	

\# See Period of Record, partial years used in monthly statistics
a Jul. 5 and Jul. 6, 1949 (estimated)
b From Jan. 30 to Feb. 14
c Mar. 19 and Mar. 20 (estimated), Jun. 20, Aug. 9 and Aug. 16
d Jul. 23, Jul. 24, Aug. 13, Aug. 14, Aug. 24, and Aug. 25, 1952
e Estimated
f Minimum observed from discharge measurement, caused by temporary storage upstream

15290000 LITTLE SUSITNA RIVER NEAR PALMER

LOCATION.--Lat 61°42′37″, long 149°13′47″, in SE¼ NW¼ sec. 26, T. 19 N., R. 1 E. (Anchorage C-6 NW quad), Matanuska-Susitna Borough, Hydrologic Unit 19020505, on right bank 100 ft downstream from highway bridge on Wasilla-Fishhook Road, 1.5 mi north of road junction, 1.8 mi downstream from unnamed tributary, and 8 mi northwest of Palmer. Prior to October 1, 1991 at site 60 ft upstream.

DRAINAGE AREA.--61.9 mi^2.

PERIOD OF RECORD.--July 1948 to current year. Low-flow records not equivalent prior to January 1962 because most measurements below 300 ft^3/s were made at site 3.4 mi downstream.

GAGE.--Water-stage recorder. Datum of gage is 916.6 ft above sea level (river-profile survey). Prior to August 16, 1948, non-recording gage and August 17, 1948 to May 15, 1972, water-stage recorder on left bank; water-stage recorder on right bank, May 16, 1972 to September 30, 1991, at site 60 ft upstream. Prior to October 1, 1974, at datum 4.00 ft higher; October 1, 1974 to September 30, 1991, at datum 2.00 ft higher.

REMARKS.--Records fair except for October 29 to November 14 (estimated), November 15 to April 15 (flow under ice), and for discharges above 700 ft^3/s, which are poor. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,200 ft^3/s and maximum (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
June 05	2330	1240	5.43	Sep. 22	0615	2760*	6.37*
June 24	2245	1260	5.45	Sep. 25	2400	1700	5.81
June 29	0515	1490	5.65				

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	231	e120	68	51	36	30	23	66	434	1000	335	311
2	244	e110	64	49	36	30	23	73	495	908	350	311
3	227	e110	64	49	36	30	23	82	611	810	380	281
4	205	e110	60	48	36	30	24	88	780	865	384	275
5	195	e100	57	45	37	29	23	80	979	982	356	251
6	185	e100	55	45	36	29	23	90	1010	816	324	237
7	175	e95	56	45	36	29	22	104	845	777	309	224
8	167	e95	50	44	35	28	22	105	729	766	301	213
9	159	e95	47	43	35	28	22	114	800	678	294	201
10	152	e90	e44	42	35	28	22	122	853	635	282	198
11	146	e90	e44	42	34	27	22	131	809	607	269	197
12	145	e90	e44	42	34	27	23	151	911	743	265	212
13	141	e85	e44	42	34	27	24	173	1010	887	319	197
14	129	e85	e44	42	34	27	26	186	975	820	435	186
15	121	78	e46	42	33	26	29	180	844	675	394	177
16	133	77	47	41	33	26	31	179	815	640	306	173
17	147	75	48	41	33	26	32	181	812	663	277	168
18	237	74	49	43	33	26	31	210	764	735	328	162
19	234	73	52	41	33	25	30	231	780	603	349	157
20	185	71	53	40	32	25	30	226	648	536	326	152
21	168	73	79	39	32	25	32	203	601	497	339	224
22	155	70	150	39	32	25	32	196	645	487	335	1680
23	144	66	96	38	31	25	31	199	813	510	333	751
24	138	65	69	39	31	24	33	206	1050	457	297	757
25	139	64	67	38	31	24	35	215	1030	430	288	1050
26	130	71	65	38	31	24	37	238	964	421	277	1160
27	131	69	61	38	31	23	43	272	1030	404	283	804
28	130	70	55	37	31	e23	52	306	1140	424	271	590
29	e130	67	55	37	30	23	55	344	1250	423	307	468
30	e120	66	53	37	---	23	58	371	1070	388	406	394
31	e120	---	54	37	---	23	---	392	---	363	335	---
TOTAL	5063	2504	1840	1294	971	815	913	5714	25497	19950	10054	12161
MEAN	163	83.5	59.4	41.7	33.5	26.3	30.4	184	850	644	324	405
MAX	244	120	150	51	37	30	58	392	1250	1000	435	1680
MIN	120	64	44	37	30	23	22	66	434	363	265	152
MED	147	78	55	42	33	26	30	181	830	640	324	230
AC-FT	10040	4970	3650	2570	1930	1620	1810	11330	50570	39570	19940	24120
CFSM	2.64	1.35	.96	.67	.54	.42	.49	2.98	13.7	10.4	5.24	6.55
IN.	3.04	1.50	1.11	.78	.58	.49	.55	3.43	15.32	11.99	6.04	7.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2000, BY WATER YEAR (WY)#

MEAN	138	62.4	40.0	30.8	24.8	20.3	25.1	219	668	503	411	304
MAX	391	134	61.7	54.1	41.2	29.7	68.0	649	1215	1047	909	651
(WY)	1984	1980	1980	1961	1982	1991	1990	1990	1977	1963	1971	1985
MIN	51.3	24.5	17.4	17.5	14.0	10.0	10.0	52.9	276	193	169	82.2
(WY)	1969	1969	1955	1959	1952	1956	1955	1971	1996	1996	1969	1969

See Period of Record for remark on low-flow records; partial years used in monthly statistics
e Estimated

15290000 LITTLE SUSITNA RIVER NEAR PALMER--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1948 - 2000#	
ANNUAL TOTAL	62669		86776			
ANNUAL MEAN	172		237		204	
HIGHEST ANNUAL MEAN					316	1949
LOWEST ANNUAL MEAN					95.8	1969
HIGHEST DAILY MEAN	1110	Aug 13	1680	Sep 22	5040	Aug 10 1971
LOWEST DAILY MEAN	a18	Apr 13	b22	Apr 7	c8.0	Apr 1 1956
ANNUAL SEVEN-DAY MINIMUM	18	Apr 10	22	Apr 5	8.0	Apr 1 1956
INSTANTANEOUS PEAK FLOW			2760	Sep 22	d7840	Aug 10 1971
INSTANTANEOUS PEAK STAGE			6.37	Sep 22	f13.00	Aug 10 1971
INSTANTANEOUS LOW FLOW			19	Apr 10	8.0	Apr 1 1956
ANNUAL RUNOFF (AC-FT)	124300		172100		147800	
ANNUAL RUNOFF (CFSM)	2.77		3.83		3.30	
ANNUAL RUNOFF (INCHES)	37.66		52.15		44.78	
10 PERCENT EXCEEDS	412		765		570	
50 PERCENT EXCEEDS	95		102		70	
90 PERCENT EXCEEDS	22		28		20	

See Period of Record for remark on low-flow records; partial years used in monthly statistics
a Apr. 13 to Apr. 16. and Apr. 23
b Apr. 7 to Apr. 11
c Apr. 1 to Apr. 20, 1956; and Mar. 11 to Mar. 12, 1957
d From rating curve extended above 4,600 ft^3/s on basis of slope-area measurement of peak flow
f Gage height about 13.0 ft, from floodmarks; 9.84 ft in gage well; 12.30 ft at top of needle peak in gage well; at prior datum (WY 1974-91) at sites then in use

15292700 TALKEETNA RIVER NEAR TALKEETNA
(Hydrologic Bench-Mark Station)

LOCATION.--Lat 62°20′49″, long 150°01′01″, in NE¼ sec. 16, T. 26 N., R. 4 W. (Talkeetna B-1 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020503, on left bank 1.7 mi downstream from Chunilna Creek, 3.5 mi northeast of Talkeetna, and about 5 mi upstream from mouth.

DRAINAGE AREA.--1,996 mi^2, revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1964 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 400 ft above sea level, from topographic map. From October 1, 1992 to September 30, 1994 at site 0.5 mi upstream at different datum.

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

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	e3500	e1500	e1000	e700	e600	e500	e500	e1500	9030	17400	7410	5670
2	4380	e1500	e1000	e700	e600	e500	e550	e1800	9060	16900	7290	6430
3	4600	e1500	e950	e700	e600	e500	e550	e2200	10400	14900	7770	5930
4	4050	e1500	e950	e700	e600	e500	e550	2460	12000	14600	8380	5940
5	3800	e1400	e950	e700	e600	e500	e550	2280	14400	17800	7970	5640
6	e3500	e1400	e900	e700	e600	e500	e550	2240	16200	19000	7760	5270
7	e3400	e1400	e900	e700	e600	e500	e550	2480	15800	15000	7610	4940
8	e3200	e1500	e900	e700	e600	e500	e550	2820	13500	14900	6860	4770
9	e3200	e1500	e900	e700	e550	e500	e550	3060	14100	14100	6430	4490
10	e3000	e1400	e850	e700	e550	e500	e550	3010	15500	14000	6050	4320
11	e2800	e1400	e850	e700	e550	e500	e550	2910	17700	12300	5650	4700
12	e2600	e1400	e850	e650	e550	e500	e550	3170	17400	15100	5640	4990
13	e2400	e1300	e850	e650	e550	e500	e550	3620	17400	17900	5660	5050
14	e2400	e1300	e850	e650	e550	e500	e600	3790	15700	18500	8610	4760
15	2110	e1300	e850	e650	e550	e500	e600	3780	15500	17000	8010	4520
16	2000	e1300	e800	e650	e550	e500	e600	4150	14300	15500	6320	4240
17	2290	e1200	e800	e650	e550	e500	e600	4550	13700	17100	5700	3990
18	2710	e1200	e800	e650	e550	e500	e600	5060	14000	16100	5780	3720
19	3780	e1200	e800	e650	e550	e500	e600	5670	13900	14500	7270	3540
20	3310	e1200	e800	e600	e550	e500	e600	6170	14400	13300	6530	3440
21	2840	e1100	e800	e600	e550	e500	e650	6060	12500	12200	5790	4220
22	2710	e1100	e800	e600	e550	e500	e650	5820	13200	11700	5790	14800
23	2380	e1100	e750	e600	e550	e500	e700	5880	14700	12400	5230	11800
24	2040	e1100	e750	e600	e550	e500	e750	6210	17400	11600	4870	9180
25	1950	e1100	e750	e600	e550	e500	e800	6000	19100	10800	4850	9570
26	e1800	e1100	e750	e600	e550	e500	e850	6100	16600	10200	4490	10900
27	e1700	e1000	e750	e600	e550	e500	e900	6340	16700	9470	4470	9210
28	e1700	e1000	e750	e600	e550	e500	e950	6710	21500	9320	4600	7840
29	e1600	e1000	e750	e600	e500	e500	e1000	7270	21300	8950	4560	6800
30	e1600	e1000	e750	e600	---	e500	e1200	7720	18700	8310	6770	6340
31	e1500	---	e700	e600	---	e500	---	8410	---	8150	6300	---
TOTAL	84850	38000	25850	20100	16300	15500	19750	139240	455690	429000	196420	187010
MEAN	2737	1267	834	648	562	500	658	4492	15190	13840	6336	6234
MAX	4600	1500	1000	700	600	500	1200	8410	21500	19000	8610	14800
MIN	1500	1000	700	600	500	500	500	1500	9030	8150	4470	3440
AC-FT	168300	75370	51270	39870	32330	30740	39170	276200	903900	850900	389600	370900
CFSM	1.36	.63	.42	.32	.28	.25	.33	2.24	7.57	6.90	3.16	3.11
IN.	1.57	.70	.48	.37	.30	.29	.37	2.58	8.45	7.96	3.64	3.47

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2000, BY WATER YEAR (WY)#

MEAN	2787	1169	833	683	575	516	667	4757	11040	10430	9154	5844
MAX	10000	1992	1122	996	990	1058	1912	11510	19040	15410	16770	12090
(WY)	1987	1987	1987	1990	1990	1990	1990	1990	1971	1981	1971	1993
MIN	1424	672	538	457	401	285	396	2145	5207	7080	3787	2070
(WY)	1997	1992	1996	1996	1969	1982	1986	1971	1969	1969	1969	1969

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1964 - 2000#	
ANNUAL TOTAL	1394662		1627710			
ANNUAL MEAN	3821		4447		4051	
HIGHEST ANNUAL MEAN					5389	1990
LOWEST ANNUAL MEAN					2249	1969
HIGHEST DAILY MEAN	26300	Aug 13	21500	Jun 28	63200	Oct 11 1986
LOWEST DAILY MEAN	a300	Apr 2	b500	Feb 29	c260	Feb 27 1982
ANNUAL SEVEN-DAY MINIMUM	300	Apr 2	500	Feb 29	260	Feb 27 1982
INSTANTANEOUS PEAK FLOW			24200	Jun 28	75700	Oct 11 1986
INSTANTANEOUS PEAK STAGE			10.49	Jun 28	17.38	Oct 11 1986
ANNUAL RUNOFF (AC-FT)	2766000		3229000		2935000	
ANNUAL RUNOFF (CFSM)	1.90		2.22		2.02	
ANNUAL RUNOFF (INCHES)	25.86		30.18		27.44	
10 PERCENT EXCEEDS	10200		14200		10700	
50 PERCENT EXCEEDS	1400		1500		1400	
90 PERCENT EXCEEDS	400		550		500	

\# See Period of Record; partial years used in monthly statistics
a Apr. 2 to Apr. 10
b Feb. 29 to Apr. 1
c From Feb. 27 to Mar. 20, 1982
e Estimated

15292700 TALKEETNA RIVER NEAR TALKEETNA--Continued
(Hydrologic Bench-Mark Station)

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954, 1966 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 1954 to September 1954.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC- ATION, CROSS SECTION (FT FM R BK) (72103)	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
SEP 2000								
07...	1200	344	105.0	5.70	5010	121	6.5	7.0
07...	1202	344	150.0	5.70	5010	128	6.5	7.0
07...	1204	344	200.0	5.70	5010	128	6.5	7.0
07...	1206	344	250.0	5.70	5010	132	6.5	7.0
07...	1208	344	300.0	5.70	5010	138	6.5	7.0
07...	1210	344	350.0	5.70	5010	142	6.5	7.0

15294100 DESHKA RIVER NEAR WILLOW

LOCATION.--Lat 61°46′05″, long 150°20′13″, in SW¼ NE¼ sec. 3, T. 19 N., R. 6 W. (Tyonek D-1 quad), Mantanuska-Susitna Borough , Hydrologic Unit 19020505, on left bank, 0.2 mi upstream from unnamed tributary, 1.1 mi downstream from unnamed tributary, 7.9 mi upstream from mouth, and 10 mi west of Willow.

DRAINAGE AREA.--591 mi^2, revised.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1978 to September 1986, and October 1998 to current year.

REVISED RECORDS.--WRD AK-83-1: 1980.

GAGE.--Water-stage recorder. Elevation of gage is 80 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge 3,600 ft^3/s and maximums (*).

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct 4	1815	5030	4.71	May 4	2345	*7030	*5.67
Oct 20	2230	3710	3.99				

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	903	e900	e550	e460	e300	e260	e270	e1600	1560	855	576	570
2	2550	e850	e550	e440	e300	e260	e270	e2300	1430	730	553	482
3	3970	e800	e550	e440	e300	e260	e270	e4000	1300	586	552	454
4	4770	e800	e550	e440	e290	e260	e270	6800	1180	508	590	424
5	3790	e750	e550	e440	e280	e260	e270	6930	1060	502	606	395
6	2270	e800	e550	e440	e270	e260	e270	6560	941	567	554	384
7	1760	e800	e550	e440	e270	e260	e270	6040	850	643	537	460
8	1490	e750	e500	e440	e270	e260	e270	5760	780	563	548	457
9	1310	e700	e500	e420	e270	e260	e270	5650	727	497	472	393
10	1160	e700	e500	e420	e270	e260	e270	5550	676	460	415	373
11	1030	e700	e500	e420	e270	e260	e270	5220	639	439	378	413
12	949	e650	e500	e420	e270	e260	e270	4770	613	419	351	553
13	883	e650	e500	e400	e270	e260	e270	4560	578	402	334	743
14	831	e650	e500	e380	e270	e260	e270	4610	533	404	325	968
15	735	e650	e500	e360	e270	e260	e270	4680	492	472	320	909
16	698	e600	e500	e360	e270	e260	e270	4540	471	861	315	739
17	715	e600	e500	e360	e270	e260	e280	4350	460	1100	293	625
18	958	e600	e500	e360	e270	e260	e280	4270	453	1580	288	543
19	1820	e600	e500	e360	e270	e260	e280	4240	442	1400	293	489
20	3230	e600	e500	e340	e270	e260	e290	4330	442	1120	289	459
21	3450	e600	e500	e340	e260	e260	e290	4340	451	910	276	485
22	2680	e600	e500	e340	e260	e260	e290	4210	445	864	280	815
23	2060	e600	e480	e340	e260	e260	e290	3720	451	857	279	2200
24	1700	e550	e480	e340	e260	e260	e320	3340	419	991	281	2020
25	1570	e550	e480	e320	e260	e260	e340	3230	396	1010	285	1550
26	1400	e550	e480	e320	e260	e260	e380	2900	371	907	290	1380
27	1290	e550	e460	e320	e260	e260	e460	2550	359	791	310	1190
28	1230	e550	e460	e320	e260	e260	e550	2290	383	664	342	1020
29	1040	e550	e460	e320	e260	e270	e750	2080	455	627	368	893
30	e1000	e550	e460	e300	---	e270	e1200	1870	751	650	441	791
31	e950	---	e460	e300	---	e270	---	1660	---	626	625	---
TOTAL	54192	19800	15570	11700	7860	8090	10320	128950	20108	23005	12366	23177
MEAN	1748	660	502	377	271	261	344	4160	670	742	399	773
MAX	4770	900	550	460	300	270	1200	6930	1560	1580	625	2200
MIN	698	550	460	300	260	260	270	1600	359	402	276	373
AC-FT	107500	39270	30880	23210	15590	16050	20470	255800	39880	45630	24530	45970
CFSM	3.10	1.17	.89	.67	.48	.46	.61	7.38	1.19	1.32	.71	1.37
IN.	3.57	1.31	1.03	.77	.52	.53	.68	8.51	1.33	1.52	.82	1.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2000, BY WATER YEAR (WY)#

MEAN	1218	700	337	275	237	236	575	2731	925	865	1169	1264
MAX	1748	2669	561	393	362	332	1215	4367	1911	2580	2714	2561
(WY)	2000	1980	1980	1980	1980	1980	1980	1985	1985	1981	1981	1982
MIN	480	277	218	191	182	177	215	1361	421	247	399	443
(WY)	1985	1986	1999	1999	1986	1982	1985	1986	1986	1983	2000	1984

See Period of Record
e Estimated

15294100 DESHKA RIVER NEAR WILLOW--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1979 - 2000#	
ANNUAL TOTAL	321903		335138			
ANNUAL MEAN	882		916		883	
HIGHEST ANNUAL MEAN					1242	1980
LOWEST ANNUAL MEAN					632	1984
HIGHEST DAILY MEAN	5560	May 17	6930	May 5	9440	Nov 13 1979
LOWEST DAILY MEAN	a185	Jan 24	b260	Feb 21	c160	Feb 24 1986
ANNUAL SEVEN-DAY MINIMUM	185	Jan 24	260	Feb 21	160	Feb 24 1986
INSTANTANEOUS PEAK FLOW			d7030	May 4	f48000	Oct 12 1986
INSTANTANEOUS PEAK STAGE			d5.67	May 4	g13.54	Oct 12 1986
INSTANTANEOUS LOW FLOW					160	Feb 24 1986
ANNUAL RUNOFF (AC-FT)	638500		664700		639400	
ANNUAL RUNOFF (CFSM)	1.56		1.62		1.56	
ANNUAL RUNOFF (INCHES)	21.23		22.10		21.26	
10 PERCENT EXCEEDS	2170		2120		2120	
50 PERCENT EXCEEDS	550		494		440	
90 PERCENT EXCEEDS	190		260		200	

\# See Period of Record
a Jan. 24 to Feb. 11
b Feb. 21 to Mar. 28
c Feb. 24 to Mar. 8, 1986
d May 4 and May 5
f From rating curve extended above 6,430 ft^3/s on basis of slope-area measurement of peak flow 7.0 mi upstream from station
g From floodmarks

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1981 to 1984, 1998 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: January 1999 to current year.

INSTRUMENTATION.-- Electronic water-temperature recorder since January 1999, set for 15-minute recording interval.

REMARKS.--
WATER TEMPERATURE: No record from March 11 to 16, and May 30 to June 16, due to a recorder problem and the probe coming out of water. Records represent water temperature at the sensor within 0.5ºC. Temperature at the sensor was compared with the average of the stream by cross section measurements on October 1, and June 16. No variation was found within the cross sections. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 24.0 ºC, July 7, 1999; minimum, 0.0ºC on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 22.5 ºC, June 24 and July 12; minimum, 0.0ºC on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)
OCT								
01...	1157	20.0	58	7.1	5.0	768	13.2	103
01...	1158	60.0	58	7.2	5.0	768	13.2	103
01...	1159	100	58	7.1	5.0	768	13.2	103
01...	1201	140	58	7.3	5.0	768	13.1	102
01...	1202	180	58	7.2	5.0	768	13.2	103
JUN								
16...	1145	15.0	58	7.3	16.0	761	10.8	110
16...	1147	40.0	58	7.3	16.0	761	10.8	110
16...	1148	75.0	58	7.3	16.0	761	10.8	110
16...	1149	115	58	7.3	16.0	761	10.9	111
16...	1150	140	58	7.3	16.0	761	10.8	110

15294100 DESHKA RIVER NEAR WILLOW--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	QUALITY ASSUR-ANCE DATA INDICA-TOR CODE (99111)
OCT										
01...	1200	9	9	198	1.95	822	10	3045	1001	--
JAN										
10...	1600	9	9	143	--	423	10	3045	1001	--
MAR										
10...	1600	9	9	138	--	266	10	3045	1001	--
MAY										
15...	1550	9	9	217	4.52	4650	10	3053	1001	--
18...	1240	9	9	215	4.31	4260	10	3053	1002	--
22...	1315	9	9	218	4.29	4200	10	3053	1002	--
JUN										
16...	1340	9	9	158	1.68	480	10	3044	1001	--
JUL										
19...	1230	9	9	160	2.50	1480	10	3053	1001	--
AUG										
08...	1030	9	9	125	1.69	508	10	3045	1001	--
SEP										
01...	1150	9	9	160	1.70	557	10	3045	1001	--
01...	1205	9	9	--	1.70	557	70	3045	1009	--
14...	1300	9	9	159	2.10	971	10	3045	1002	--
14...	1315	9	9	--	2.10	971	70	3045	1099	--
26...	1300	9	7	158	2.44	1370	10	3053	1002	30
26...	1315	9	7	--	2.44	1370	70	3053	1099	--

DATE	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)
OCT										
01...	58	7.1	--	5.0	768	13.2	103	26	7.41	1.75
JAN										
10...	56	6.6	-19.0	.0	755	8.9	61	27	7.84	1.90
MAR										
10...	76	7.0	--	.0	762	8.7	60	35	9.98	2.46
MAY										
15...	22	6.7	10.5	5.5	757	12.3	98	9	2.58	.63
18...	22	6.5	17.0	6.5	757	11.5	94	9	2.60	.64
22...	21	6.7	--	7.0	750	11.3	95	9	2.59	.61
JUN										
16...	58	7.0	--	16.0	761	10.8	110	27	7.63	1.81
JUL										
19...	35	7.0	--	15.0	761	10.4	103	16	4.81	1.07
AUG										
08...	55	7.3	--	15.0	765	8.0	79	23	6.56	1.70
SEP										
01...	60	7.2	--	12.0	767	9.6	88	26	7.38	1.82
01...	60	7.2	--	12.0	767	9.6	88	--	--	--
14...	45	7.2	18.5	7.0	752	11.0	92	21	5.83	1.46
14...	45	7.2	--	7.0	752	11.0	92	--	--	--
26...	40	7.2	5.0	8.5	759	11.5	99	18	5.33	1.26
26...	40	7.2	--	8.5	759	11.5	99	--	--	--

15294100 DESHKA RIVER NEAR WILLOW--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
OCT										
01...	1.8	29	.8	34	28	.4	.4	<.1	14.3	54
JAN										
10...	1.9	28	.9	33	27	E.3	.4	<.1	17.7	64
MAR										
10...	2.3	41	.9	49	40	.5	.5	<.1	20.1	85
MAY										
15...	.8	11	.5	10	8	<.3	E.2	<.1	7.4	37
18...	.8	10	.4	10	8	E.2	E.3	<.1	7.4	32
22...	.8	9	.4	10	8	<.3	E.2	<.1	7.3	36
JUN										
16...	2.0	30	.7	35	29	.5	.3	<.1	12.7	55
JUL										
19...	1.2	18	.5	21	17	E.2	E.2	<.1	9.9	51
AUG										
08...	1.7	25	.8	30	24	.3	E.2	<.1	11.5	53
SEP										
01...	1.9	32	.9	34	29	E.3	.5	<.1	14.0	59
01...	--	--	--	--	--	--	--	--	--	--
14...	1.7	22	.9	24	20	E.3	.7	<.1	12.2	54
14...	--	--	--	--	--	--	--	--	--	--
26...	1.5	21	.8	24	20	.4	1.1	<.1	11.0	47
26...	--	--	--	--	--	--	--	--	--	--

DATE	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT										
01...	45	.001	.010	<.002	.26	.16	.025	.012	.006	800
JAN										
10...	--	<.001	.100	.011	.29	.19	.019	.011	.005	640
MAR										
10...	62	<.001	.119	.020	.13	.16	.026	.014	.012	790
MAY										
15...	--	<.001	.068	.008	.35	.26	.063	E.004	<.001	440
18...	--	<.001	.069	.010	.29	.22	.042	.009	.002	410
22...	--	<.001	.065	.013	.32	.26	.034	.008	.002	340
JUN										
16...	43	<.001	<.005	.005	.23	.17	.021	.009	<.001	500
JUL										
19...	--	.001	.010	.004	.36	.24	.039	.011	.004	480
AUG										
08...	--	.002	.513	.004	.45	.38	.032	.014	.028	580
SEP										
01...	--	.006	.420	.247	.61	.53	.067	.042	.037	480
01...	--	--	--	--	--	--	--	--	--	--
14...	--	.008	.176	.048	.62	.30	.093	.017	.005	500
14...	--	--	--	--	--	--	--	--	--	--
26...	34	.004	.078	.031	.34	.28	.047	.015	.008	450
26...	--	--	--	--	--	--	--	--	--	--

15294100 DESHKA RIVER NEAR WILLOW--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)
OCT									
01...	56	4	8.9	--	5.6	--	.2	--	--
JAN									
10...	91	2	2.3	--	5.4	--	.2	--	--
MAR									
10...	115	2	1.4	--	3.5	--	.3	--	--
MAY									
15...	31	51	640	40	8.6	--	.4	--	--
18...	31	<1	--	--	8.0	--	.5	--	--
22...	33	33	374	44	7.8	--	.5	--	--
JUN									
16...	33	6	7.8	77	4.6	--	<.2	--	--
JUL									
19...	19	17	68	70	9.1	--	.4	--	--
AUG									
08...	20	8	11	86	5.9	--	.4	--	--
SEP									
01...	34	5	7.5	--	5.3	--	.4	--	--
01...	--	--	--	--	5.3	<.1	.9	.9	.20
14...	44	22	58	67	6.5	--	.9	--	--
14...	--	--	--	--	--	--	--	--	.25
26...	61	10	37	75	8.5	--	.5	--	--
26...	--	--	--	--	--	--	--	--	.11

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	5.5	5.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	5.5	5.0	5.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	6.0	5.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	6.0	6.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	6.5	6.0	6.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	6.5	5.5	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	5.5	5.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	5.5	5.0	5.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	5.0	4.0	4.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	4.0	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	3.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	3.0	2.5	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	2.5	1.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
17	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
18	1.5	.5	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	1.5	1.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	1.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
22	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
23	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	.0	.0	.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	6.5	.0	2.1	.0	.0	.0	.0	.0	.0	.0	.0	.0

15294100 DESHKA RIVER NEAR WILLOW--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	.5
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.0	1.5
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	1.0	2.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	1.5	2.5
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.5	1.5	2.5
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	2.5	3.5
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	3.0	4.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	3.0	4.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	4.0	4.5
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	5.0	3.5	4.5
11	.0	.0	.0	---	---	---	.0	.0	.0	6.0	4.5	5.0
12	.0	.0	.0	---	---	---	.0	.0	.0	6.5	5.0	6.0
13	.0	.0	.0	---	---	---	.0	.0	.0	7.0	5.5	6.5
14	.0	.0	.0	---	---	---	.0	.0	.0	6.5	5.5	6.0
15	.0	.0	.0	---	---	---	.0	.0	.0	6.0	4.5	5.5
16	.0	.0	.0	---	---	---	.0	.0	.0	6.5	5.0	6.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.0	5.5	6.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	6.0	7.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	6.5	7.5
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	6.0	7.0
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	7.5	6.5	7.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	8.0	7.0	7.5
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	7.5	8.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	7.5	8.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	9.0	7.5	8.5
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	10.0	8.5	9.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.0	9.0	10.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	11.5	9.5	10.5
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	12.0	10.0	11.0
30	---	---	---	.0	.0	.0	.5	.0	.0	---	---	---
31	---	---	---	.0	.0	.0	---	---	---	---	---	---
MONTH	.0	.0	.0	---	---	---	.5	.0	.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	20.0	17.0	18.5	15.0	13.5	14.0	12.0	11.0	11.5
2	---	---	---	20.5	18.5	19.0	15.0	13.5	14.5	12.5	9.5	11.0
3	---	---	---	21.5	18.0	19.5	16.5	14.0	15.0	12.5	10.5	11.5
4	---	---	---	21.5	18.5	20.0	15.5	14.0	15.0	13.0	11.0	12.0
5	---	---	---	19.5	17.5	18.5	15.5	14.5	15.0	11.5	10.5	11.0
6	---	---	---	20.0	17.0	18.0	16.5	14.0	15.5	11.0	9.5	10.0
7	---	---	---	21.5	17.5	19.0	17.0	14.0	15.5	10.5	8.5	9.5
8	---	---	---	19.5	18.5	19.0	17.5	14.5	15.5	11.0	9.0	10.0
9	---	---	---	19.0	16.5	18.0	17.5	14.0	16.0	10.5	8.0	9.0
10	---	---	---	19.5	16.5	18.0	17.0	14.5	15.5	9.0	8.0	8.5
11	---	---	---	21.5	17.0	19.0	17.5	14.0	15.5	8.5	7.0	8.0
12	---	---	---	22.5	18.5	20.5	18.5	14.5	16.0	9.0	7.5	8.0
13	---	---	---	21.0	18.0	19.5	17.0	15.5	16.0	8.5	7.5	8.0
14	---	---	---	18.0	16.0	17.0	18.0	14.5	16.0	8.0	6.5	7.5
15	---	---	---	17.0	15.5	16.5	16.0	12.5	14.5	8.5	7.0	7.5
16	17.5	---	---	16.0	15.0	15.5	16.5	12.5	14.5	8.5	6.5	7.5
17	16.5	15.0	16.0	16.0	14.5	15.5	16.0	13.0	14.5	8.5	6.5	7.5
18	16.5	14.0	15.5	15.5	13.5	15.0	17.0	13.5	15.0	7.5	5.5	6.5
19	16.0	14.0	15.5	17.0	14.0	15.5	16.5	13.5	15.0	7.0	5.0	6.0
20	16.0	13.5	15.0	16.5	15.0	16.0	16.0	13.5	14.5	6.5	5.0	5.5
21	17.5	14.0	15.5	16.0	14.0	15.0	14.5	12.5	13.0	7.0	5.0	6.0
22	19.0	15.0	17.0	17.0	15.0	15.5	13.5	12.0	12.5	8.5	6.5	8.0
23	21.0	16.5	18.5	17.0	15.0	16.0	14.0	10.5	12.0	8.5	7.0	7.5
24	22.5	18.0	20.0	16.5	15.5	16.0	12.5	11.0	12.0	8.0	7.5	7.5
25	21.5	18.5	20.0	17.5	15.5	16.0	14.0	10.5	12.0	9.0	7.5	8.0
26	21.0	18.5	20.0	18.5	16.0	17.0	13.0	10.0	11.5	9.0	7.0	8.0
27	21.0	18.5	20.0	17.5	15.5	16.5	12.0	10.5	11.0	8.0	6.0	7.0
28	20.0	18.0	19.0	15.5	14.0	15.0	13.5	10.5	11.5	6.0	4.0	5.0
29	19.0	16.5	18.0	14.0	13.0	13.5	12.0	11.0	11.5	4.0	3.0	3.5
30	19.0	17.0	18.0	16.0	12.5	14.0	13.5	10.5	11.5	3.5	2.5	3.0
31	---	---	---	15.0	14.0	14.5	12.5	10.5	11.5	---	---	---
MONTH	---	---	---	22.5	12.5	17.0	18.5	10.0	14.0	13.0	2.5	8.0

15294700 JOHNSON RIVER ABOVE LATERAL GLACIER NEAR TUXEDNI BAY

LOCATION.--Lat 60°05′41″, long 152°54′38″, in SW¼ NW¼ NW¼ sec. 16, T. 1 S., R. 21 W. (Kenai A-8 quad), Kenai Peninsula Borough, Hydrologic Unit 19020602, on the right bank about 20 mi upstream from mouth, 10 mi south of Tuxedni Bay, and 60 mi northeast of Iliamna.

DRAINAGE AREA.--24.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--July 1995 to current year (no winter record).

GAGE.--Water-stage recorder. Elevation of gage is 450 ft above sea level, from topographic map. July 1995 to June 1996, at site 300 ft downstream at same datum.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 8,800 ft^3/s, September 21, 1995 from rating curve extended above 3,500 ft^3/s on the basis of slope-area measurement, gage height 14.60 ft at site then in use, gage height 16.27 ft at the current site; minimum not determined, occurs during the winter.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge for the period October 1999 and May through September 2000, 3,520 ft^3/s, August 2 gage height, 13.68 ft; minimum not determined, occurs during the winter.

REMARKS.--Records are poor. Rain gage at station.

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	609	---	---	---	---	---	---	e20	311	808	900	365
2	645	---	---	---	---	---	---	e22	325	806	2200	338
3	343	---	---	---	---	---	---	e24	348	747	1770	279
4	419	---	---	---	---	---	---	e26	379	712	1040	250
5	352	---	---	---	---	---	---	e30	506	716	799	228
6	251	---	---	---	---	---	---	e34	517	681	675	208
7	200	---	---	---	---	---	---	e38	819	688	585	209
8	177	---	---	---	---	---	---	e40	896	640	580	182
9	158	---	---	---	---	---	---	e44	752	592	567	152
10	148	---	---	---	---	---	---	e46	649	569	526	169
11	139	---	---	---	---	---	---	e55	565	664	659	157
12	128	---	---	---	---	---	---	e65	521	810	764	138
13	116	---	---	---	---	---	---	e70	432	830	821	215
14	109	---	---	---	---	---	---	e80	459	692	835	173
15	108	---	---	---	---	---	---	e90	e500	756	607	133
16	107	---	---	---	---	---	---	e100	572	1160	474	125
17	115	---	---	---	---	---	---	e120	590	846	482	104
18	182	---	---	---	---	---	---	e140	536	669	625	93
19	143	---	---	---	---	---	---	e160	801	592	621	92
20	120	---	---	---	---	---	---	e180	669	567	503	105
21	113	---	---	---	---	---	---	e200	564	718	438	301
22	105	---	---	---	---	---	---	e220	556	713	387	335
23	101	---	---	---	---	---	---	e250	605	637	314	251
24	95	---	---	---	---	---	---	e300	649	589	282	257
25	94	---	---	---	---	---	---	345	641	563	253	251
26	87	---	---	---	---	---	---	372	705	578	234	217
27	89	---	---	---	---	---	---	366	785	573	245	167
28	83	---	---	---	---	---	---	389	826	490	248	134
29	e83	---	---	---	---	---	---	403	868	486	542	115
30	e83	---	---	---	---	---	---	378	856	745	466	106
31	83	---	---	---	---	---	---	315	---	935	366	---
TOTAL	5585	---	---	---	---	---	---	4922	18202	21572	19808	5849
MEAN	180	---	---	---	---	---	---	159	607	696	639	195
MAX	645	---	---	---	---	---	---	403	896	1160	2200	365
MIN	83	---	---	---	---	---	---	20	311	486	234	92
AC-FT	11080	---	---	---	---	---	---	9760	36100	42790	39290	11600
CFSM	7.60	---	---	---	---	---	---	6.70	25.6	29.4	27.0	8.23
IN.	8.77	---	---	---	---	---	---	7.73	28.57	33.86	31.09	9.18

e Estimated

15294700 JOHNSON RIVER ABOVE LATERAL GLACIER NEAR TUXEDNI BAY--Continued

WATER-QUALITY RECORDS

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	AGENCY ANA-LYZING SAMPLE (CODE NUMBER) (00028)	AGENCY COL-LECTING SAMPLE (CODE NUMBER) (00027)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	PH WATER WHOLE LAB (STAND-ARD UNITS) (00403)	SPE-CIFIC CON-DUCT-ANCE LAB (US/CM) (90095)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE AIR (DEG C) (00020)
OCT												
07...	1320	80020	1028	--	200	734	12.7	7.5	7.7	80	78	6.0
MAY												
09...	1330	80020	1028	--	45	771	15.2	7.2	6.7	106	105	--
JUN												
15...	1300	80020	1028	--	497	763	15.3	7.0	8.4	66	64	--
JUL												
26...	1745	80020	1028	--	603	740	13.2	7.1	7.3	44	42	--
AUG												
16...	1030	80020	1028	--	439	--	13.6	7.2	7.6	48	42	--
SEP												
18...	1115	80020	1028	10.41	89	758	12.4	7.5	7.4	87	76	--

DATE	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	ALKA-LINITY WAT.DIS FET LAB CACO3 (MG/L) (29801)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
OCT												
07...	4.3	11.2	11.4	.98	1.07	.3	.5	1.1	1.2	23	21	21
MAY												
09...	.2	15.0	--	1.24	--	E.2	--	1.5	--	25	22	22
JUN												
15...	2.1	8.65	8.83	.80	1.14	.3	.5	1.1	1.2	17	14	14
JUL												
26...	3.0	5.88	6.73	.52	1.20	.3	.4	.7	.9	13	12	12
AUG												
16...	3.8	6.48	7.55	.48	1.23	.3	.4	.7	.9	15	13	14
SEP												
18...	2.2	12.0	--	.90	--	.5	--	1.3	--	22	19	20

DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)
OCT												
07...	26	.6	<.1	4.4	13.5	E.10	E.10	<.002	.076	<.001	<.006	.008
MAY												
09...	26	1.7	<.1	5.6	18.0	<.10	E.10	<.002	.302	.001	<.006	<.001
JUN												
15...	18	1.4	<.1	3.5	9.9	E.10	<.10	.056	.160	<.001	<.006	<.001
JUL												
26...	16	.6	<.1	2.3	5.6	<.10	<.10	<.002	.032	.001	<.006	.002
AUG												
16...	17	.5	<.1	2.0	6.6	<.10	<.10	.011	.047	.001	<.006	.003
SEP												
18...	25	.8	<.1	3.8	15.6	<.10	<.10	.004	.030	<.001	E.003	<.001

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	DRAIN-AGE AREA (SQ. MI.) (81024)	ELEV. OF LAND SURFACE DATUM (FT. ABOVE NGVD) (72000)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	STREAM WIDTH (FT) (00004)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ANTI-MONY, DIS-SOLVED (UG/L AS SB) (01095)	ANTI-MONY, TOTAL (UG/L AS SB) (01097)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)
OCT												
07...	E.004	.39	<.2	24.8	450	46	--	18	232	<1	<1.0	<2.0
MAY												
09...	.038	.36	<.2	24.8	450	68	--	16	--	<1	--	<.9
JUN												
15...	.013	.90	<.2	24.8	450	36	--	34	1020	<1	<1.0	E.6
JUL												
26...	.032	<.33	<.2	24.8	450	24	--	70	2010	<1	<1.0	E.6
AUG												
16...	.029	<.33	<.2	24.8	450	28	137	13	2160	<1	<1.0	E.8
SEP												
18...	<.008	<.33	<.2	24.8	450	50	115	22	--	<1	--	1.2

15294700 JOHNSON RIVER ABOVE LATERAL GLACIER NEAR TUXEDNI BAY--Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)
OCT												
07...	<3	13	13.8	<1	<5	--	<1.0	<.1	<.8	<1	<1	<2
MAY												
09...	--	14	--	<1	--	23	<1.0	--	--	--	<1	--
JUN												
15...	<3	12	15.2	<1	<5	25	<1.0	<.1	<.8	<1	<1	<2
JUL												
26...	E1	7	13.0	<1	<5	17	<1.0	<.1	<.8	E1	<1	<2
AUG												
16...	E2	7	15.7	<1	<5	20	<1.0	<.1	E.8	E1	<1	E1
SEP												
18...	--	14	--	<1	--	43	<1.0	--	E.5	--	<1	--

DATE	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	CYANIDE TOTAL (MG/L AS CN) (00720)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)
OCT												
07...	<1	<20	<.01	<10	180	<1	1	--	<7.0	3	8	--
MAY												
09...	<1	--	--	<10	--	<1	--	E.2	--	4	--	--
JUN												
15...	<1	<20	--	<10	840	<1	<1	.4	<7.0	3	21	<.3
JUL												
26...	<1	<20	--	30	1590	<1	<1	.5	<7.0	3	34	<.3
AUG												
16...	<1	<20	--	<10	1900	<1	<1	.3	<7.0	4	41	<.3
SEP												
18...	<1	--	--	<10	--	<1	--	.9	--	4	--	--

DATE	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	THAL-LIUM, DIS-SOLVED (UG/L AS TL) (01057)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)
OCT												
07...	<1	<1	<1	<2	<2.4	<3	<1	<1	--	22.3	--	--
MAY												
09...	<1	--	1	--	<.7	--	<1	--	24.5	--	<.9	<1
JUN												
15...	<1	<1	<1	<2	<.7	<3	<1	<1	19.4	19.0	<.9	<1
JUL												
26...	<1	1	<1	<2	<.7	<3	<1	<1	11.9	14.9	<.9	<1
AUG												
16...	<1	<1	<1	<2	<.7	<3	<1	<1	12.5	15.6	<.9	<1
SEP												
18...	<1	--	<1	--	E.4	--	<1	--	24.0	--	<.9	<1

DATE	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	JULIAN DATE IN-BOTTLE DIGEST-ION DDD (99870)	PURPOSE SITE VISIT, (CODE) (50280)	SAMPLE PURPOSE CODE (71999)	SAMPLER TYPE (CODE) (84164)	SAM-PLING METHOD, CODES (82398)	SET NUMBER LAB CODE 0113 (NO.) (99630)	SET NUMBER LAB CODE 0305 (NO.) (99660)
OCT												
07...	11	E17	<1	2	--	291	--	10.00	3045	10	99286.00	99280.00
MAY												
09...	5	--	<1	13	--	--	--	--	3045	10	133.00	126.40
JUN												
15...	14	E20	<1	22	--	173	--	--	3045	10	171.00	168.20
JUL												
26...	6	<31	<1	47	--	215	--	--	3045	10	213.10	213.10
AUG												
16...	2	<31	<1	60	59	234	--	--	3045	10	235.00	231.20
SEP												
18...	3	--	<1	4	--	--	--	--	3045	10	264.00	258.40

15295700 TERROR RIVER AT MOUTH NEAR KODIAK

LOCATION.--Lat 57°41′41″, long 153°09′42″, in SW¼ NE¼ sec. 5, T. 29 S., R. 24 W. (Kodiak C-4 quad), Kodiak Island Borough, Hydrologic Unit 19020701, on Kodiak Island, in Kodiak National Wildlife Refuge, on right bank, 0.9 mi upstream from mouth, 7.5 mi downstream from Terror Lake Dam, and 29 mi southwest of Kodiak.

DRAINAGE AREA.--30.7 mi^2, 45.7 mi^2 prior to partial diversion of Terror Lake to hydropower plant in February 1985.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1964 to October 1968, October 1981 to current year.

REVISED RECORDS.--WDR AK-84-1: 1982-83. WDR AK-96-1: 1995(M).

GAGE.--Water-stage recorder. Elevation of gage is 30 ft above sea level, from topographic map. Prior to October 1, 1981 at site 0.2 mi downstream at different datum.

REMARKS.--No estimated daily discharges. Records fair. Flow from 15 mi^2 at headwaters regulated by Terror Lake Dam and some flow diverted from Terror Lake to Kizhuyak River. Regulation for construction began in November 1982. Began filling reservoir April 29, 1984. Diversion to hydropower plant began February 12, 1985. GOES satellite telemetry at station.

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	212	191	116	121	100	96	92	224	290	397	242	184
2	213	163	121	119	112	105	123	258	302	529	381	177
3	213	153	114	117	98	96	121	245	297	427	272	169
4	266	146	115	106	92	91	123	249	294	373	213	169
5	217	150	113	109	89	121	122	234	305	494	192	170
6	217	154	116	93	93	108	121	244	358	451	188	177
7	212	160	116	91	111	96	120	338	567	395	176	175
8	212	166	118	92	97	90	119	281	477	325	184	174
9	213	151	127	95	99	92	118	253	371	317	183	170
10	208	148	122	105	102	110	127	251	420	309	178	182
11	354	150	113	105	109	119	136	240	594	367	192	177
12	386	179	110	93	101	92	143	262	1110	418	204	172
13	219	168	112	88	93	89	172	279	747	416	198	194
14	210	175	113	97	91	87	149	288	521	400	206	188
15	335	144	117	100	91	120	144	263	445	447	189	178
16	334	156	117	94	89	91	134	239	395	439	176	177
17	317	145	115	100	86	94	123	257	328	268	181	170
18	353	168	118	106	87	89	124	265	337	213	191	166
19	239	129	112	99	85	97	131	244	422	206	190	166
20	228	126	113	91	86	95	144	210	350	198	179	173
21	226	116	202	89	94	93	131	193	313	201	174	190
22	215	115	230	93	93	94	126	197	312	243	179	189
23	220	111	131	94	98	91	122	169	340	216	172	185
24	214	113	122	93	95	118	121	161	768	208	175	173
25	209	116	116	91	93	129	122	201	540	178	173	171
26	207	122	261	91	92	132	114	214	491	180	173	170
27	215	113	179	92	98	128	122	229	445	188	196	169
28	213	118	132	95	92	129	121	247	433	177	189	167
29	208	113	125	90	95	131	127	265	523	170	198	164
30	204	122	123	102	---	129	161	273	456	158	181	161
31	200	---	117	89	---	116	---	283	---	232	177	---
TOTAL	7489	4281	4056	3040	2761	3268	3853	7556	13551	9540	6102	5247
MEAN	242	143	131	98.1	95.2	105	128	244	452	308	197	175
MAX	386	191	261	121	112	132	172	338	1110	529	381	194
MIN	200	111	110	88	85	87	92	161	290	158	172	161
AC-FT	14850	8490	8050	6030	5480	6480	7640	14990	26880	18920	12100	10410

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2000, BY WATER YEAR (WY)#

MEAN	279	184	143	119	111	102	175	329	500	366	290	294
MAX	427	354	313	153	168	152	247	454	872	1070	662	707
(WY)	1995	1987	1986	1988	1994	1998	1993	1993	1987	1987	1988	1995
MIN	192	93.8	78.4	81.8	72.6	60.9	115	244	305	228	183	175
(WY)	1998	1995	1988	1989	1989	1986	1986	2000	1990	1989	1994	2000

See Period of Record and Remarks

15295700 TERROR RIVER AT MOUTH NEAR KODIAK--Continued

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1986 - 2000#	
ANNUAL TOTAL	77318		70744			
ANNUAL MEAN	212		193		241	
HIGHEST ANNUAL MEAN					369	1987
LOWEST ANNUAL MEAN					193	2000
HIGHEST DAILY MEAN	1290	Jun 14	1110	Jun 12	4610	Sep 20 1995
LOWEST DAILY MEAN	a82	Feb 27	85	Feb 19	b26	Dec 11 1996
ANNUAL SEVEN-DAY MINIMUM	85	Feb 22	88	Feb 14	39	Nov 19 1985
INSTANTANEOUS PEAK FLOW			1330	Jun 12	c10000	Sep 19 1995
INSTANTANEOUS PEAK STAGE			3.37	Jun 12	7.67	Sep 19 1995
INSTANTANEOUS LOW FLOW			62	Mar 24	b9.8	Dec 11 1996
ANNUAL RUNOFF (AC-FT)	153400		140300		174900	
10 PERCENT EXCEEDS	363		351		463	
50 PERCENT EXCEEDS	175		169		185	
90 PERCENT EXCEEDS	91		93		84	

PRIOR TO CONSTRUCTION OF TERROR LAKE DAM

SUMMARY STATISTICS, WATER YEARS 1965 - 1983 #		
ANNUAL MEAN	293	
HIGHEST ANNUAL MEAN	421	1983
LOWEST ANNUAL MEAN	230	1967
HIGHEST DAILY MEAN	2600	Oct 2 1965
LOWEST DAILY MEAN	d19	Feb 23 1967
ANNUAL SEVEN-DAY MINIMUM	20	Feb 23 1967
INSTANTANEOUS PEAK FLOW	3820	Sep 26 1966
INSTANTANEOUS PEAK STAGE	f6.48	Sep 26 1966
INSTANTANEOUS PEAK STAGE	g7.54	Mar 28 1964
ANNUAL RUNOFF (AC-FT)	212200	
ANNUAL RUNOFF (CFSM)	9.54	
ANNUAL RUNOFF (IN)	129.66	
10 PERCENT EXCEEDS	774	
50 PERCENT EXCEEDS	157	
90 PERCENT EXCEEDS	39	

\# See Period of Record and Remarks
a Feb. 27 and Mar. 22
b Occurred while dam release valve was closed for repair
c From rating curve extended above 960 ft^3/s on basis of slope-area measurement of peak flow
d Feb. 23 and Mar. 1, 1967
f Site and datum then in use
g Site and datum then in use; from tidal wave

15295700 TERROR RIVER AT MOUTH NEAR KODIAK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1968, 1982 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: December 1981 to current year.

INSTRUMENTATION.--Water-temperature recorder since December 10, 1981. Electronic water temperature recorder set for 1-hour recording interval.

REMARKS.--Records represent water temperature at sensor within 0.5ºC. Temperature at the sensor was compared with the average for the river by cross section on March 31. No variation was found within the cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 13.5ºC, July 19, 1990 and August 8, 1993; minimum, 0.0ºC on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 11.5ºC, August 12-13; minimum, 0.0ºC on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
MAR							
31...	1245	66.0	4.0	1.20	128	2.00	.0
31...	1246	66.0	24.0	1.20	128	2.00	.0
31...	1247	66.0	44.0	1.20	128	2.00	.0
31...	1248	66.0	64.0	1.20	128	2.00	.0

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.0	7.5	7.5	3.0	2.0	2.5	2.0	1.0	1.5	.0	.0	.0
2	7.5	6.0	7.0	2.5	2.0	2.5	1.5	.5	1.0	.5	.0	.0
3	7.5	6.0	6.5	3.5	2.0	2.5	2.0	1.5	2.0	.5	.0	.5
4	7.5	6.5	7.0	4.0	3.0	3.5	2.0	1.0	1.5	.0	.0	.0
5	7.0	6.5	6.5	3.5	2.5	3.0	2.0	1.0	1.5	.0	.0	.0
6	7.0	6.5	6.5	3.5	3.0	3.0	1.0	.0	.5	.5	.0	.5
7	7.0	5.5	6.5	4.0	3.0	3.5	.5	.0	.5	.5	.0	.5
8	6.5	5.0	5.5	3.5	3.0	3.5	.5	.0	.0	.5	.0	.0
9	6.5	5.0	6.0	3.5	3.0	3.0	1.5	.5	1.0	.5	.0	.0
10	7.0	5.5	6.0	3.0	1.5	2.0	1.5	1.5	1.5	.5	.0	.5
11	6.0	4.5	5.5	3.5	1.5	2.5	2.0	.5	1.5	.5	.0	.0
12	5.5	4.0	4.5	3.0	2.5	3.0	.5	.0	.0	.0	.0	.0
13	4.0	3.0	3.5	3.5	2.5	3.0	.0	.0	.0	.5	.0	.0
14	4.5	2.5	3.5	3.0	2.5	3.0	.5	.0	.0	.5	.0	.5
15	5.0	4.0	4.5	3.0	2.0	2.5	.5	.0	.0	.5	.0	.5
16	5.0	3.5	4.0	2.0	1.0	1.5	.0	.0	.0	.5	.0	.5
17	6.0	4.5	5.0	2.0	1.0	1.5	.5	.0	.5	.5	.5	.5
18	5.5	4.5	5.0	2.5	1.5	2.0	.5	.5	.5	.5	.5	.5
19	4.5	4.0	4.0	2.0	1.5	1.5	1.0	.5	.5	1.5	.5	1.0
20	4.5	3.0	4.0	2.5	2.0	2.0	1.5	.0	1.0	1.0	.5	.5
21	5.0	3.5	4.5	2.0	1.5	2.0	1.5	.5	1.0	1.5	.5	1.0
22	4.0	2.5	3.5	2.0	1.0	1.5	.5	.0	.5	1.5	.5	1.0
23	5.0	3.5	4.0	1.5	.5	1.0	.0	.0	.0	1.5	.5	1.0
24	4.5	4.0	4.5	1.5	.5	1.0	.5	.0	.0	1.0	.5	1.0
25	4.0	2.5	3.5	2.0	.5	1.5	.5	.0	.5	1.0	.0	.5
26	3.5	2.5	3.0	2.5	1.5	2.0	.5	.5	.5	1.0	.5	.5
27	3.0	2.5	2.5	2.5	1.5	2.0	1.0	.5	1.0	1.0	.0	.5
28	3.5	2.5	3.0	1.5	.5	1.0	.5	.0	.5	.0	.0	.0
29	3.0	2.5	3.0	1.5	1.0	1.5	.5	.0	.0	.0	.0	.0
30	3.0	2.5	2.5	1.5	1.0	1.5	.5	.0	.5	.0	.0	.0
31	3.0	2.0	2.5	---	---	---	.5	.0	.0	.0	.0	.0
MONTH	8.0	2.0	4.7	4.0	.5	2.2	2.0	.0	.6	1.5	.0	.4

15295700 TERROR RIVER AT MOUTH NEAR KODIAK--Continued

TEMPERATURE, WATER (DEGREES CELSIUS) WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.5	.0	.0	2.5	1.0	1.5	.5	.0	.5	4.5	2.5	3.5
2	1.0	.0	.5	2.5	1.5	2.0	2.5	.5	1.5	4.5	2.5	3.0
3	2.0	1.0	1.5	3.5	1.5	2.0	4.0	1.0	2.0	7.0	2.0	4.0
4	2.0	1.0	1.5	3.0	1.0	1.5	3.5	1.5	2.0	6.5	1.5	3.5
5	2.5	1.5	2.0	2.5	1.5	2.0	4.5	1.0	2.0	6.0	1.5	3.5
6	2.0	1.0	1.5	3.0	1.5	2.0	4.0	.5	2.0	5.0	2.5	3.5
7	2.5	1.5	2.0	3.0	1.0	1.5	4.5	1.0	2.0	4.0	2.5	3.0
8	2.5	1.5	2.0	3.0	1.0	2.0	4.5	.5	2.0	5.5	2.0	3.5
9	1.5	1.0	1.5	3.5	1.5	2.0	4.0	1.0	2.0	7.0	1.5	4.0
10	2.0	1.5	2.0	2.0	1.0	1.5	5.0	1.5	3.0	6.5	2.0	4.0
11	2.5	1.5	2.0	3.5	1.0	2.0	5.0	2.0	3.0	7.0	1.5	4.0
12	2.0	1.0	1.5	3.5	.5	2.0	4.0	2.0	3.0	7.5	2.0	4.0
13	1.0	.0	.5	3.0	1.5	2.0	4.0	2.5	3.0	6.5	2.0	4.0
14	.5	.0	.0	2.5	1.0	2.0	6.0	2.0	3.5	4.5	3.0	3.5
15	1.5	.5	1.0	2.5	1.0	2.0	6.0	1.0	3.0	7.0	2.5	4.0
16	2.5	1.0	1.5	3.5	1.5	2.5	4.0	1.5	2.5	6.5	2.5	4.5
17	1.5	.0	1.0	3.0	.5	2.0	4.0	2.0	3.0	7.5	2.5	4.5
18	2.5	1.0	1.5	4.0	1.5	2.5	6.5	2.0	3.5	7.0	3.0	4.5
19	2.5	1.5	2.0	3.5	1.0	2.0	6.5	2.0	3.5	6.5	2.0	4.0
20	2.5	1.5	1.5	4.0	1.5	2.5	5.0	2.0	3.5	6.0	2.5	4.0
21	1.5	.0	.5	3.5	.5	2.0	4.0	1.5	2.5	6.0	3.0	4.5
22	1.5	.0	.5	4.0	1.0	2.5	3.5	1.5	2.5	6.5	2.0	4.0
23	1.5	.0	.5	4.0	1.5	2.5	4.5	2.0	2.5	6.5	2.0	4.0
24	2.5	1.0	1.5	3.5	.5	2.0	5.0	2.0	3.0	7.5	2.0	4.5
25	2.0	1.0	1.5	2.0	.0	1.0	4.0	2.0	3.0	7.5	2.0	4.5
26	2.5	1.5	1.5	2.0	.0	1.0	6.5	1.0	3.5	8.0	2.0	4.5
27	2.0	1.0	1.5	1.0	.0	.0	6.0	1.0	3.0	8.5	2.0	5.0
28	3.0	1.0	2.0	.5	.0	.5	6.5	1.0	3.5	8.5	2.5	5.0
29	2.0	1.0	1.5	2.0	.5	1.0	5.0	2.0	3.5	8.0	2.5	5.0
30	---	---	---	3.5	.5	2.0	4.5	2.5	3.5	6.5	3.0	4.5
31	---	---	---	2.5	.0	1.0	---	---	---	6.5	2.5	4.5
MONTH	3.0	.0	1.3	4.0	.0	1.8	6.5	.0	2.7	8.5	1.5	4.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.5	2.5	4.5	7.5	4.0	5.5	8.5	6.0	7.0	10.0	7.5	8.5
2	8.5	2.5	5.0	6.5	4.5	5.0	8.5	6.5	7.5	8.5	6.5	7.5
3	6.5	3.0	4.5	7.5	4.0	5.5	9.0	7.0	8.0	9.0	6.5	7.5
4	8.0	2.5	5.0	6.5	4.5	5.5	10.0	6.5	8.0	8.5	6.5	7.5
5	8.0	2.5	5.0	7.0	4.5	5.5	10.5	5.5	8.0	8.5	6.5	7.5
6	6.0	3.5	4.5	8.0	4.5	5.5	9.5	7.0	8.0	8.5	7.0	7.5
7	5.5	3.0	4.0	6.5	4.5	5.5	10.0	6.5	8.0	8.5	7.0	7.5
8	5.0	3.0	4.0	6.0	4.5	5.5	10.5	6.5	8.0	9.0	7.0	8.0
9	5.5	3.0	4.0	6.5	4.5	5.5	10.5	6.5	8.5	8.0	6.5	7.5
10	5.0	3.5	4.0	9.0	5.0	6.5	9.5	7.0	8.0	8.5	7.0	7.5
11	4.5	3.0	3.5	9.0	5.0	7.0	10.5	6.5	8.5	8.5	7.0	7.5
12	4.0	2.5	3.0	10.0	5.0	7.0	11.5	7.0	9.0	8.0	6.5	7.0
13	4.5	2.5	3.5	9.0	5.0	6.5	11.5	7.5	9.0	8.0	7.0	7.0
14	5.5	3.0	4.0	9.5	5.5	7.0	11.0	7.0	9.0	8.5	6.5	7.5
15	6.5	3.0	4.5	6.5	5.5	6.0	10.0	7.0	8.5	7.5	5.5	6.5
16	6.0	3.0	4.5	6.5	5.0	6.0	10.5	6.5	8.0	8.5	6.5	7.0
17	6.0	3.0	4.5	7.5	4.0	6.0	11.0	7.0	8.5	8.0	5.5	6.5
18	7.0	3.0	4.5	6.5	5.0	6.0	9.5	8.0	8.5	7.5	5.0	6.0
19	7.0	3.5	4.5	7.0	5.0	6.0	10.0	7.5	8.5	8.5	6.0	7.0
20	6.5	3.5	4.5	7.5	5.5	6.5	9.5	7.5	8.0	8.5	7.0	7.5
21	8.0	3.0	5.0	7.0	5.0	6.0	10.5	6.5	8.0	11.0	8.0	9.5
22	6.0	3.5	4.5	7.0	5.5	6.0	9.5	7.0	8.0	10.0	8.0	8.5
23	5.5	4.0	4.5	8.5	5.5	7.0	8.5	6.0	7.5	9.5	8.0	8.5
24	5.0	3.5	4.0	7.0	6.0	6.5	8.0	7.0	7.5	9.0	8.0	8.5
25	7.5	3.0	5.0	8.0	5.5	6.5	9.5	6.5	7.5	9.5	8.5	9.0
26	6.0	4.0	4.5	10.0	5.5	7.5	8.5	7.0	7.5	9.5	8.0	8.5
27	6.0	4.0	5.0	9.5	5.5	7.0	9.0	7.5	8.5	8.0	6.0	7.0
28	7.0	4.0	5.5	9.5	5.5	7.5	10.0	7.5	8.5	7.5	6.0	6.5
29	7.5	4.5	5.5	8.0	6.0	7.0	8.5	7.5	8.5	8.0	5.5	6.5
30	5.0	3.5	4.5	8.0	5.0	6.5	9.5	7.0	8.0	8.5	6.5	7.0
31	---	---	---	8.5	6.5	7.0	9.0	7.5	8.0	---	---	---
MONTH	8.5	2.5	4.4	10.0	4.0	6.3	11.5	5.5	8.1	11.0	5.0	7.5

15297610 RUSSELL CREEK NEAR COLD BAY

LOCATION.--Lat 55°10′40″, long 162°41′15″, (Cold Bay A-3 quad), Aleutians East Borough, Hydrologic Unit 19030101, on left bank, at Russell Creek Fish Hatchery, 2.1 mi upstream from mouth, and 2.6 mi southeast of Cold Bay. Prior to February 27, 1997, at site 0.2 mi downstream.

DRAINAGE AREA.--30.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1981 to December 1986, October 1995 to current year.

REVISED RECORDS.-- WRD AK-97-1: 1996, Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 7.65 ft above sea level. Prior to February 27, 1997, elevation 3.55 ft above sea level at site 0.2 mi downstream (levels by private engineering firm).

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

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	215	119	e125	e60	e60	e90	100	162	964	508	590	281
2	185	127	e120	e60	e60	e90	110	164	1570	589	904	203
3	491	180	e120	e60	e65	e95	101	134	1140	538	614	176
4	246	166	e110	e60	e65	e95	112	135	919	483	436	160
5	223	144	e110	e60	e65	e100	108	141	643	591	332	169
6	247	118	e110	e55	e65	e100	103	140	986	528	273	260
7	282	114	e100	e55	e65	e100	96	152	909	547	255	324
8	238	111	e100	e55	e65	e110	96	137	880	469	255	210
9	198	130	e100	e55	e65	e110	116	138	666	419	249	204
10	194	121	e100	e55	e65	e110	128	133	507	381	320	213
11	187	321	e95	e55	e65	e120	179	134	447	358	358	183
12	172	268	e95	e55	e65	e120	169	142	444	456	390	165
13	174	260	e90	e55	e70	e130	289	399	419	414	369	167
14	162	170	e90	e55	e70	123	264	382	436	569	536	138
15	168	148	e85	e55	e70	119	200	280	406	639	612	129
16	168	140	e85	e60	e70	117	259	296	409	437	447	123
17	152	141	e80	e60	e70	108	251	265	569	362	430	e120
18	154	224	e80	e60	e70	104	219	227	809	325	426	e120
19	151	196	e80	e60	e75	e100	189	248	700	284	392	e110
20	138	167	e75	e60	e75	e100	164	225	635	270	372	e280
21	134	144	e75	e60	e75	e95	150	208	453	302	329	e250
22	127	136	e75	e65	e75	e95	136	196	400	291	257	e200
23	123	144	e70	e65	e80	e90	141	175	417	279	207	e150
24	124	167	e70	e65	e80	e90	129	167	500	456	245	e140
25	123	223	e70	e65	e80	e90	123	169	512	410	225	e130
26	126	158	e65	e65	e80	e85	114	166	440	377	463	e120
27	117	186	e65	e65	e85	e85	132	180	429	356	343	e110
28	114	260	e65	e65	e85	e85	169	187	446	412	740	e100
29	e100	140	e65	e60	e85	e90	162	411	497	359	340	e90
30	e100	128	e60	e60	---	e90	150	1190	473	420	268	e80
31	e115	---	e60	e60	---	e95	---	985	---	379	521	---
TOTAL	5448	5051	2690	1845	2065	3131	4659	8068	19025	13208	12498	5105
MEAN	176	168	86.8	59.5	71.2	101	155	260	634	426	403	170
MAX	491	321	125	65	85	130	289	1190	1570	639	904	324
MIN	100	111	60	55	60	85	96	133	400	270	207	80
AC-FT	10810	10020	5340	3660	4100	6210	9240	16000	37740	26200	24790	10130
CFSM	5.69	5.45	2.81	1.93	2.30	3.27	5.03	8.42	20.5	13.8	13.0	5.51
IN.	6.56	6.08	3.24	2.22	2.49	3.77	5.61	9.71	22.90	15.90	15.05	6.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000, BY WATER YEAR (WY)#

MEAN	280	296	244	169	149	128	134	217	339	343	322	380
MAX	516	530	549	318	272	218	261	300	634	528	403	538
(WY)	1986	1986	1984	1982	1982	1996	1998	1982	2000	1982	2000	1998
MIN	172	168	86.8	59.5	71.2	75.8	80.3	137	208	192	256	170
(WY)	1997	2000	2000	2000	2000	1986	1985	1986	1997	1997	1996	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000#	
ANNUAL TOTAL	70179		82793			
ANNUAL MEAN	192		226		250	
HIGHEST ANNUAL MEAN					302	1982
LOWEST ANNUAL MEAN					206	1983
HIGHEST DAILY MEAN	1200	Aug 3	1570	Jun 2	4000	Jun 24 1996
LOWEST DAILY MEAN	a60	Dec 30	b55	Jan 6	c50	Feb 19 1982
ANNUAL SEVEN-DAY MINIMUM	64	Dec 25	55	Jan 6	51	Feb 18 1982
INSTANTANEOUS PEAK FLOW			1760	Jun 2	d6000	Oct 22 1981
INSTANTANEOUS PEAK STAGE			27.73	Jun 2	f11.76	Jun 24 1996
INSTANTANEOUS LOW FLOW					g49	Mar 13 1983
ANNUAL RUNOFF (AC-FT)	139200		164200		181100	
ANNUAL RUNOFF (CFSM)	6.22		7.32		8.09	
ANNUAL RUNOFF (INCHES)	84.49		99.67		109.93	
10 PERCENT EXCEEDS	359		476		443	
50 PERCENT EXCEEDS	150		142		202	
90 PERCENT EXCEEDS	80		65		90	

0# See Period of Record
a Dec. 30-31
b Jan. 6-15
c Feb. 19-23, 1982
d From rating curve extended above 610 ft^3/s on basis of estimate by slope-area measurement of 6,000 ft^3/s and gage height of 11.19 ft
e Estimated
f Site and datum then in use; from flood marks
g Mar. 13-14, 1983

15297610 RUSSELL CREEK NEAR COLD BAY--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982-83, 1996 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: August 1996 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder set for 1-hour recording interval.

REMARKS.--Records represent water-temperature at the sensor within 0.5ºC. Temperature at the sensor was compared with the stream average by cross sections on June 12. No variation was found within the cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 15ºC, August 18, 1999; minimum, 0.0ºC on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 13ºC, August 10; minimum 0.0ºC on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC- ATION, CROSS SECTION (FT FM R BK) (72103)	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
JUN							
12...	1505	101	1.0	26.34	425	6.0	8.5
12...	1506	101	20.0	26.34	425	6.0	8.5
12...	1507	101	40.0	26.34	425	6.0	8.5
12...	1508	101	60.0	26.34	425	6.0	8.5
12...	1509	101	80.0	26.34	425	6.0	8.5
12...	1510	101	100.0	26.34	425	6.0	8.5

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	8.0	5.0	6.5	.5	.0	.0	.5	.0	.0	.0	.0	.0
2	7.5	4.0	5.5	1.0	.0	.5	1.5	.0	.5	.0	.0	.0
3	7.0	5.5	6.5	2.5	.5	1.5	1.0	.0	.0	.0	.0	.0
4	8.0	4.0	5.5	3.5	1.0	2.0	.0	.0	.0	.0	.0	.0
5	7.5	5.0	6.0	1.5	.0	1.0	.0	.0	.0	.0	.0	.0
6	7.0	5.0	6.0	.5	.0	.5	.0	.0	.0	.0	.0	.0
7	5.5	3.5	4.5	3.0	.5	1.5	.0	.0	.0	.0	.0	.0
8	5.5	3.0	4.0	3.0	.5	2.0	.0	.0	.0	.0	.0	.0
9	6.5	3.0	4.0	.5	.0	.0	.0	.0	.0	.0	.0	.0
10	5.5	3.0	4.5	3.0	.0	1.0	.0	.0	.0	.0	.0	.0
11	6.0	4.0	5.0	2.0	1.5	2.0	.0	.0	.0	.0	.0	.0
12	5.5	3.0	4.0	3.5	2.0	2.5	.0	.0	.0	.0	.0	.0
13	6.5	3.0	4.5	2.0	.5	1.5	.0	.0	.0	.0	.0	.0
14	6.5	3.5	4.5	1.0	.0	.5	.0	.0	.0	.0	.0	.0
15	5.0	4.0	4.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
16	6.5	3.5	4.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
17	5.0	3.5	4.0	1.5	.0	.5	.0	.0	.0	.0	.0	.0
18	6.0	1.5	3.0	2.0	.5	1.0	.0	.0	.0	.0	.0	.0
19	5.5	2.5	4.0	2.5	.5	2.0	.0	.0	.0	.0	.0	.0
20	6.0	1.5	3.5	2.5	.0	1.0	.0	.0	.0	.0	.0	.0
21	4.0	.5	1.5	1.5	.0	.5	.0	.0	.0	.0	.0	.0
22	2.0	.5	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
23	2.5	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	3.0	.0	1.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0
25	2.5	.0	.5	2.0	.5	1.0	.0	.0	.0	.0	.0	.0
26	1.5	.0	.5	1.5	.0	1.0	.0	.0	.0	.0	.0	.0
27	3.0	.0	1.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	1.0	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	2.0	.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0
30	1.5	.0	.5	1.5	.0	.5	.0	.0	.0	.0	.0	.0
31	.0	.0	.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	8.0	.0	3.3	3.5	.0	.8	1.5	.0	.0	.0	.0	.0

15297610 RUSSELL CREEK NEAR COLD BAY---Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.5	.0	.0	3.0	.0	1.0	7.5	2.5	4.0
2	.0	.0	.0	1.0	.0	.0	4.5	.0	1.5	3.0	1.0	2.0
3	.0	.0	.0	1.5	.0	.5	5.0	.0	2.0	5.5	1.0	3.0
4	.0	.0	.0	1.0	.0	.5	6.5	.0	2.5	7.0	1.5	4.0
5	.0	.0	.0	.5	.0	.0	7.0	.5	3.0	7.0	1.5	3.5
6	.0	.0	.0	1.0	.0	.5	6.5	.5	3.0	9.0	1.0	4.5
7	.0	.0	.0	1.0	.0	.5	6.0	.5	2.5	5.5	2.0	3.5
8	.0	.0	.0	2.0	.0	.5	5.0	.0	2.0	6.5	1.5	3.5
9	.0	.0	.0	3.5	.0	1.0	2.5	.0	1.0	7.0	1.5	3.5
10	.0	.0	.0	3.0	.5	1.0	3.0	.5	1.5	6.0	1.5	3.5
11	.0	.0	.0	4.0	.5	1.5	5.0	.5	2.0	5.5	2.0	3.5
12	.0	.0	.0	2.5	.5	1.0	3.0	.5	1.5	7.0	2.0	4.0
13	.0	.0	.0	3.0	.0	1.5	2.5	.5	1.5	5.5	2.0	3.5
14	.0	.0	.0	1.5	.0	1.0	6.0	.5	2.5	6.5	1.0	3.0
15	.0	.0	.0	4.0	.5	2.0	3.0	.5	1.5	7.0	2.0	3.5
16	.0	.0	.0	3.5	.5	1.5	4.0	1.5	2.5	6.0	2.0	3.5
17	.0	.0	.0	4.0	.0	2.0	5.0	1.0	2.5	5.0	2.0	3.5
18	.0	.0	.0	2.5	.0	1.0	5.0	1.0	2.5	5.5	2.0	4.0
19	.0	.0	.0	2.5	.0	1.0	3.0	1.0	2.0	7.5	2.5	4.0
20	.0	.0	.0	2.0	.5	1.0	5.0	.0	1.5	6.0	2.0	4.0
21	.0	.0	.0	2.5	.5	1.5	5.5	.0	2.0	8.0	2.5	4.5
22	.0	.0	.0	2.5	.5	1.5	1.5	.0	.5	8.0	1.0	4.0
23	.0	.0	.0	4.5	.5	2.0	3.0	.0	1.0	7.5	2.0	4.0
24	.0	.0	.0	4.0	.0	1.0	3.0	.0	1.5	7.5	2.5	4.5
25	.0	.0	.0	.5	.0	.0	6.0	.5	2.5	7.0	2.0	4.5
26	.0	.0	.0	.5	.0	.0	8.0	.5	3.5	8.5	2.0	5.0
27	.0	.0	.0	1.0	.0	.0	4.0	1.5	2.5	9.0	2.5	5.0
28	.0	.0	.0	.0	.0	.0	6.0	1.5	3.5	6.5	2.5	4.5
29	.0	.0	.0	.5	.0	.0	7.0	1.0	4.0	4.5	3.0	3.5
30	---	---	---	.0	.0	.0	7.5	2.0	4.0	4.5	2.5	3.0
31	---	---	---	2.0	.0	.5	---	---	---	4.5	2.5	3.0
MONTH	.0	.0	.0	4.5	.0	.8	8.0	.0	2.2	9.0	1.0	3.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	4.0	2.5	3.0	9.0	4.5	6.0	8.0	6.0	7.0	11.5	6.0	8.0
2	4.0	2.5	3.0	8.0	4.5	6.0	9.5	5.5	7.0	12.5	5.5	8.0
3	5.5	2.5	3.5	11.0	4.5	6.5	11.0	5.5	7.5	9.5	5.5	7.5
4	6.0	3.0	4.0	6.5	4.5	5.5	9.0	4.5	6.0	12.0	4.5	8.0
5	8.0	2.0	4.5	8.0	5.0	6.0	8.5	4.0	6.0	11.5	6.0	8.0
6	7.0	3.5	4.5	6.0	4.5	5.0	9.0	4.5	6.5	10.5	6.0	8.0
7	5.0	3.0	3.5	6.5	5.0	5.5	11.0	5.0	7.0	11.0	6.0	7.5
8	4.0	3.0	3.5	9.5	4.0	6.0	8.0	5.5	6.5	9.0	5.0	7.0
9	6.5	3.0	4.0	10.5	4.5	7.0	12.5	5.0	8.0	8.0	6.5	7.0
10	8.5	3.5	5.5	7.5	4.5	6.0	13.0	6.0	8.5	9.5	6.0	7.0
11	6.0	4.0	5.0	9.5	5.0	6.5	10.0	6.5	8.0	11.0	4.5	6.5
12	6.5	4.0	5.0	8.5	5.5	6.5	12.5	6.5	8.5	10.5	5.0	6.5
13	9.0	3.5	5.5	7.5	4.5	6.0	11.5	6.0	8.0	10.0	4.0	6.5
14	9.5	4.0	6.0	8.0	5.5	6.5	8.0	6.5	7.0	11.5	4.0	7.5
15	8.5	4.5	6.0	10.5	4.0	6.5	7.5	6.0	6.5	11.5	3.0	7.0
16	7.5	4.5	5.5	10.0	4.0	6.0	12.5	5.0	8.0	10.5	4.5	7.5
17	7.5	4.0	5.5	10.5	4.0	6.5	12.0	5.5	8.5	11.0	5.0	7.5
18	6.5	3.5	5.0	8.5	4.5	6.0	12.5	5.5	8.0	12.0	4.0	7.5
19	6.0	3.5	4.5	8.0	4.5	6.0	11.0	6.0	8.0	10.5	5.0	7.5
20	5.0	3.0	4.0	9.0	5.0	6.5	8.5	6.0	7.0	11.0	7.5	9.0
21	6.5	4.0	5.0	8.0	5.0	6.5	7.5	5.5	6.5	9.5	6.0	7.5
22	11.5	4.0	7.0	8.5	4.0	6.0	8.5	4.5	6.5	8.0	5.5	6.5
23	10.0	4.5	6.5	11.5	4.5	7.5	8.5	5.0	6.5	8.0	6.0	6.5
24	10.0	4.5	6.5	8.0	5.0	6.0	10.0	6.5	8.0	10.0	5.5	7.0
25	9.5	4.0	6.0	9.5	4.5	6.0	11.0	4.5	7.5	9.5	3.0	6.5
26	11.5	4.0	7.0	8.0	5.0	6.0	12.5	7.0	9.5	8.5	6.5	7.5
27	8.5	4.5	6.5	10.5	4.5	7.0	10.0	6.0	8.0	10.0	3.5	6.5
28	11.5	4.0	7.5	8.0	5.0	6.0	10.5	6.5	8.5	7.0	4.5	5.5
29	8.5	4.0	6.0	7.5	4.5	5.5	11.5	5.5	7.5	8.5	5.0	6.5
30	6.5	4.5	5.5	7.0	5.5	6.5	8.5	4.5	6.5	8.0	5.0	6.5
31	---	---	---	9.5	5.0	6.5	11.0	7.5	9.5	---	---	---
MONTH	11.5	2.0	5.2	11.5	4.0	6.2	13.0	4.0	7.5	12.5	3.0	7.2

15300300 ILIAMNA RIVER NEAR PEDRO BAY

LOCATION.--Lat 59°45′31″, long 153°50′41″, in NE¼ SE¼ sec. 10, T. 5 S., R. 27 W.(Iliamna D-3 quad), Lake and Peninsula Borough, Hydrologic Unit 19030206, on left bank 100 ft downstream from bridge on road between Pile Bay and Williamsport, 9.2 mi east of Pedro Bay, and 37 mi east of Iliamna.

DRAINAGE AREA.--128 mi^2.

PERIOD OF RECORD.--May 1996 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 80 ft above sea level, from topographic map.

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

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	1570	e460	e250	e200	e180	e150	e150	482	1210	1900	2620	693
2	3130	e480	e250	e200	e170	e150	e150	552	1340	2000	7830	652
3	1960	506	e250	e200	e170	e150	e150	609	1430	1820	5010	565
4	1900	516	e250	e200	e170	e150	e150	674	1500	1720	2300	504
5	1540	483	e250	e200	e170	e150	e150	668	1840	1970	1670	478
6	1240	451	e250	e200	e170	e150	e150	646	2120	1820	1290	535
7	1030	427	e240	e190	e170	e150	e150	698	6000	1920	1040	525
8	904	399	e240	e190	e170	e140	e150	750	5450	1680	920	464
9	825	388	e240	e190	e170	e140	157	794	3310	1570	865	424
10	781	337	e240	e190	e170	e140	159	770	2780	1330	801	455
11	745	353	e230	e180	e170	e140	179	738	2540	1600	814	529
12	701	429	e230	e180	e160	e140	199	837	2530	1870	842	563
13	660	426	e220	e180	e160	e140	242	885	2240	2210	883	736
14	595	385	e220	e180	e160	e140	391	959	2500	1800	1050	781
15	556	357	e220	e180	e160	e140	393	975	2630	2530	804	644
16	541	337	e210	e180	e160	e140	402	1050	2440	3200	642	571
17	518	312	e210	e180	e160	e140	405	1130	2050	2170	568	517
18	664	352	e200	e180	e160	e140	406	1280	1930	1830	571	466
19	685	330	e200	e180	e160	e140	437	1330	4120	1450	582	431
20	622	302	e210	e190	e160	e140	527	1220	3510	1320	549	412
21	600	281	e210	e190	e160	e140	493	1030	2260	2240	498	1030
22	557	280	e220	e190	e160	e140	435	948	2090	1480	458	1730
23	533	e280	e220	e190	e160	e140	406	969	2040	1240	418	1070
24	511	e270	e220	e190	e150	e140	395	874	2290	1260	394	1170
25	496	e270	e210	e190	e150	e140	395	836	2270	1200	381	954
26	e490	e270	e210	e190	e150	e140	401	885	2330	1050	357	821
27	e480	e270	e210	e190	e150	e140	403	986	2470	927	408	704
28	471	e260	e210	e190	e150	e150	411	1190	2370	847	425	615
29	e470	e260	e210	e180	e150	e150	432	1310	2470	767	596	551
30	e460	e260	e210	e180	---	e150	460	1320	2380	1150	1250	497
31	e460	---	e210	e180	---	e150	---	1210	---	2760	790	---
TOTAL	26695	10731	6950	5830	4700	4450	9328	28605	76440	52631	37626	20087
MEAN	861	358	224	188	162	144	311	923	2548	1698	1214	670
MAX	3130	516	250	200	180	150	527	1330	6000	3200	7830	1730
MIN	460	260	200	180	150	140	150	482	1210	767	357	412
AC-FT	52950	21280	13790	11560	9320	8830	18500	56740	151600	104400	74630	39840
CFSM	6.73	2.79	1.75	1.47	1.27	1.12	2.43	7.21	19.9	13.3	9.48	5.23
IN.	7.76	3.12	2.02	1.69	1.37	1.29	2.71	8.31	22.22	15.30	10.94	5.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2000, BY WATER YEAR (WY)#

MEAN	576	372	156	110	97.1	173	304	1044	2454	1503	1173	1519
MAX	861	748	224	188	162	407	500	1313	3790	2487	1631	2178
(WY)	2000	1999	2000	2000	2000	1998	1998	1998	1998	1998	1999	1999
MIN	289	161	84.5	75.2	61.6	60.6	87.8	813	1716	788	692	627
(WY)	1997	1997	1997	1998	1998	1999	1999	1999	1996	1997	1997	1996

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1996 - 2000#	
ANNUAL TOTAL	311923		284073			
ANNUAL MEAN	855		776		839	
HIGHEST ANNUAL MEAN					1083	1998
LOWEST ANNUAL MEAN					622	1997
HIGHEST DAILY MEAN	12100	Sep 18	7830	Aug 2	12300	Jun 8 1998
LOWEST DAILY MEAN	a55	Mar 12	b140	Mar 8	c38	Jan 5 1997
ANNUAL SEVEN-DAY MINIMUM	55	Mar 12	140	Mar 8	40	Jan 2 1997
INSTANTANEOUS PEAK FLOW			11000	Aug 2	14800	Jun 8 1998
INSTANTANEOUS PEAK STAGE			69.20	Aug 2	71.82	Jun 8 1998
ANNUAL RUNOFF (AC-FT)	618700		563500		607700	
ANNUAL RUNOFF (CFSM)	6.68		6.06		6.55	
ANNUAL RUNOFF (INCHES)	90.65		82.56		89.05	
10 PERCENT EXCEEDS	1940		1980		2090	
50 PERCENT EXCEEDS	426		453		499	
90 PERCENT EXCEEDS	65		150		76	

\# See Period of Record; partial year used in monthly statistics
a From Mar. 12-18
b From Mar. 8-27
c From Jan. 5-6, 1997
e Estimated

15303700 TATALINA RIVER NEAR TAKOTNA

LOCATION.--Lat 62°53′06″, long 155°56′22″, in NW¼ NE¼ sec. 12, T.32 N., R.36 W.(McGrath D-6 quad), Hydrologic Unit 19030405, at downstream side of bridge on right bank, 1.2 mi southeast of Tatalina Airstrip, and 8.1 mi southeast of Takotna.

DRAINAGE AREA.--76.9 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1987 to current year (no winter record), except May only in 1989, and annual maximum in water year 1991.

GAGE.--Water-stage recorder, non-recording gage May 1 to June 7, and crest-stage gage. Elevation of gage is 450 ft above sea level, from topographic map. Prior to May 9, 1990 at site 20 ft downstream at same datum.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Precipitation gage and air temperature recorder at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 1,170 ft^3/s, July 8, 1998, gage-height 10.97 ft; maximum gage height 11.46 ft, 1996, date and time unknown, backwater from ice, discharge not determined; minimum discharge not determined, occurs during winter.

EXTREMES FOR CURRENT PERIOD.-- October 1999 and May to September 2000: maximum discharge observed during period, 842 ft^3/s, September 22, gage height 9.28 ft; minimum discharge not determined, occurs during winter.

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	143	---	---	---	---	---	---	e100	132	38	163	81
2	271	---	---	---	---	---	---	e110	128	37	130	81
3	230	---	---	---	---	---	---	e120	119	36	113	74
4	167	---	---	---	---	---	---	e130	112	36	189	71
5	131	---	---	---	---	---	---	e140	105	39	266	82
6	109	---	---	---	---	---	---	e150	96	37	150	99
7	96	---	---	---	---	---	---	e160	89	35	123	122
8	89	---	---	---	---	---	---	e170	82	36	109	100
9	85	---	---	---	---	---	---	e180	76	41	98	84
10	81	---	---	---	---	---	---	e200	72	52	100	124
11	e50	---	---	---	---	---	---	e250	68	64	104	222
12	e25	---	---	---	---	---	---	e280	63	47	92	157
13	e24	---	---	---	---	---	---	e320	59	40	97	151
14	e22	---	---	---	---	---	---	e380	57	112	138	129
15	e20	---	---	---	---	---	---	e410	56	243	109	111
16	e19	---	---	---	---	---	---	e440	54	161	91	101
17	e18	---	---	---	---	---	---	e450	53	151	84	96
18	e17	---	---	---	---	---	---	e480	55	165	96	86
19	e17	---	---	---	---	---	---	503	59	113	101	89
20	e16	---	---	---	---	---	---	501	55	86	87	83
21	e16	---	---	---	---	---	---	448	51	87	85	302
22	e15	---	---	---	---	---	---	341	47	77	82	685
23	e15	---	---	---	---	---	---	300	45	66	74	309
24	e15	---	---	---	---	---	---	294	44	71	69	228
25	e14	---	---	---	---	---	---	239	43	71	65	200
26	e14	---	---	---	---	---	---	198	42	63	62	192
27	e14	---	---	---	---	---	---	183	41	57	67	173
28	e13	---	---	---	---	---	---	162	40	52	78	157
29	e13	---	---	---	---	---	---	150	40	52	82	150
30	e13	---	---	---	---	---	---	146	39	54	97	140
31	e12	---	---	---	---	---	---	140	---	79	81	---
TOTAL	1784	---	---	---	---	---	---	8075	2022	2298	3282	4679
MEAN	57.5	---	---	---	---	---	---	260	67.4	74.1	106	156
MAX	271	---	---	---	---	---	---	503	132	243	266	685
MIN	12	---	---	---	---	---	---	100	39	35	62	71
AC-FT	3540	---	---	---	---	---	---	16020	4010	4560	6510	9280
CFSM	.75	---	---	---	---	---	---	3.39	.88	.96	1.38	2.03
IN.	.86	---	---	---	---	---	---	3.91	.98	1.11	1.59	2.26

e Estimated

15303700 TATALINA RIVER NEAR TAKOTNA--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 1992 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July 1992 to current year (seasonal).

INSTRUMENTATION.--Electronic water-temperature recorder set for 1-hour recording interval.

REMARKS.--Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross sections on August 28. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE.--Maximum recorded, 16.5°C, July 30 to August 2, and 4, 1997; minimum 0.0° C, several days in October, May, and September, water years 1993, 1997, 1998, 1999, and 2000.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 14.5° C, July 5 and 6; minimum, 0.0° C, many days in October, May, and September.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
AUG							
28...	1457	30.5	4.00	4.10	84	6.0	13.9
28...	1459	30.5	8.00	4.10	84	6.0	13.9
28...	1501	30.5	12.0	4.10	84	6.0	13.9
28...	1502	30.5	16.0	4.10	84	6.0	13.9
28...	1503	30.5	20.0	4.10	84	6.0	13.9
28...	1504	30.5	24.0	4.10	84	6.0	13.9
28...	1505	30.5	28.0	4.10	84	6.0	13.9

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	1.0	.5	.5	---	---	---	---	---	---	---	---	---
2	1.5	.5	1.0	---	---	---	---	---	---	---	---	---
3	1.5	1.0	1.5	---	---	---	---	---	---	---	---	---
4	1.5	1.5	1.5	---	---	---	---	---	---	---	---	---
5	1.5	1.0	1.0	---	---	---	---	---	---	---	---	---
6	1.0	.5	.5	---	---	---	---	---	---	---	---	---
7	1.0	.5	1.0	---	---	---	---	---	---	---	---	---
8	1.0	.5	1.0	---	---	---	---	---	---	---	---	---
9	1.5	1.0	1.0	---	---	---	---	---	---	---	---	---
10	1.0	.5	.5	---	---	---	---	---	---	---	---	---
11	.5	.0	.0	---	---	---	---	---	---	---	---	---
12	---	.0	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

15303700 TATALINA RIVER NEAR TAKOTNA--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	.0	.0	.0
2	---	---	---	---	---	---	---	---	---	.0	.0	.0
3	---	---	---	---	---	---	---	---	---	.0	.0	.0
4	---	---	---	---	---	---	---	---	---	.0	.0	.0
5	---	---	---	---	---	---	---	---	---	.0	.0	.0
6	---	---	---	---	---	---	---	---	---	.0	.0	.0
7	---	---	---	---	---	---	---	---	---	.0	.0	.0
8	---	---	---	---	---	---	---	---	---	.0	.0	.0
9	---	---	---	---	---	---	---	---	---	.0	.0	.0
10	---	---	---	---	---	---	---	---	---	.0	.0	.0
11	---	---	---	---	---	---	---	---	---	.0	.0	.0
12	---	---	---	---	---	---	---	---	---	.0	.0	.0
13	---	---	---	---	---	---	---	---	---	.0	.0	.0
14	---	---	---	---	---	---	---	---	---	.0	.0	.0
15	---	---	---	---	---	---	---	---	---	.0	.0	.0
16	---	---	---	---	---	---	---	---	---	.5	.0	.0
17	---	---	---	---	---	---	---	---	---	.5	.0	.0
18	---	---	---	---	---	---	---	---	---	.5	.0	.0
19	---	---	---	---	---	---	---	---	---	.5	.0	.5
20	---	---	---	---	---	---	---	---	---	1.0	.0	.5
21	---	---	---	---	---	---	---	---	---	1.0	.0	.5
22	---	---	---	---	---	---	---	---	---	1.0	.0	.5
23	---	---	---	---	---	---	---	---	---	1.0	.0	.5
24	---	---	---	---	---	---	---	---	---	2.0	.0	1.0
25	---	---	---	---	---	---	---	---	---	1.5	.5	1.0
26	---	---	---	---	---	---	---	---	---	2.0	.0	1.0
27	---	---	---	---	---	---	---	---	---	2.5	.5	1.5
28	---	---	---	---	---	---	---	---	---	2.5	1.0	1.5
29	---	---	---	---	---	---	---	---	---	3.5	1.0	2.0
30	---	---	---	---	---	---	---	---	---	3.0	2.0	2.5
31	---	---	---	---	---	---	---	---	---	3.5	2.5	3.0
MONTH	---	---	---	---	---	---	---	---	---	3.5	.0	.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	4.5	2.5	3.5	13.0	9.0	11.0	6.0	5.0	5.5	6.0	5.0	5.5
2	4.0	3.0	3.5	14.0	10.0	11.5	5.5	5.0	5.0	6.0	5.0	5.5
3	5.0	3.5	4.0	14.0	12.0	13.0	6.0	5.0	5.5	5.5	5.0	5.0
4	6.5	4.0	5.0	14.0	12.0	13.0	6.0	6.0	6.0	5.5	4.0	5.0
5	6.5	5.0	5.5	14.5	11.5	12.5	6.0	5.0	5.5	5.5	5.0	5.0
6	6.5	5.0	6.0	14.5	11.0	12.5	6.0	5.5	6.0	5.5	5.0	5.0
7	6.5	5.0	6.0	14.0	11.5	13.0	7.0	5.5	6.0	5.0	4.5	5.0
8	7.5	5.5	6.5	13.5	12.0	13.0	6.5	6.0	6.0	5.0	4.0	4.5
9	8.5	6.5	7.5	12.5	10.5	11.5	6.5	5.5	6.0	4.0	3.0	3.5
10	9.0	7.0	8.0	11.5	9.5	10.5	6.0	5.5	6.0	4.0	3.5	3.5
11	9.0	7.0	8.0	11.5	8.5	10.0	6.5	5.5	6.0	4.0	3.5	4.0
12	9.5	6.0	7.5	12.0	9.5	10.5	8.0	6.0	7.0	4.0	3.5	4.0
13	8.0	7.0	7.5	11.0	10.0	10.5	9.0	8.0	8.0	3.5	2.5	3.0
14	8.0	6.0	7.0	10.0	6.5	8.5	8.0	7.0	7.0	3.5	2.5	3.0
15	8.0	6.0	7.0	6.5	5.0	5.5	7.0	5.5	6.0	3.0	1.5	2.0
16	8.5	6.5	7.5	6.0	5.0	5.5	6.0	4.5	5.5	1.5	.5	1.0
17	9.0	6.5	7.5	6.0	5.5	5.5	6.0	5.5	5.5	1.5	.5	1.0
18	8.5	6.0	7.5	6.0	5.0	5.5	6.5	5.5	6.0	1.0	.0	.5
19	9.5	7.0	8.0	7.0	5.0	6.0	6.0	5.0	5.5	1.0	.5	.5
20	9.5	7.5	8.5	7.0	6.0	6.5	6.0	4.5	5.5	2.0	1.0	1.5
21	10.0	6.5	8.0	7.5	6.0	6.5	6.0	5.0	5.5	3.0	2.0	2.5
22	9.5	7.0	8.5	7.5	6.0	7.0	6.0	4.5	5.5	3.5	3.0	3.5
23	11.5	7.5	9.0	8.0	7.0	7.5	5.5	4.5	5.0	3.5	3.0	3.0
24	12.5	9.0	10.5	8.0	7.0	7.5	5.0	4.0	4.5	3.0	2.0	2.5
25	13.0	10.0	11.5	8.0	6.5	7.5	5.0	4.0	4.5	2.0	1.5	1.5
26	13.5	10.0	11.5	7.5	6.5	7.0	5.0	3.5	4.5	1.5	1.5	1.5
27	12.0	10.5	11.0	7.5	6.0	7.0	5.5	4.5	5.0	1.5	1.0	1.0
28	11.0	9.5	10.0	7.5	6.5	7.0	6.5	5.0	5.5	1.0	.0	.5
29	10.0	8.5	9.5	7.0	6.0	6.5	7.0	6.0	6.5	.5	.0	.0
30	11.0	9.0	10.0	8.0	6.0	7.0	6.5	6.0	6.0	.5	.0	.0
31	---	---	---	7.0	6.0	6.5	6.0	4.5	5.0	---	---	---
MONTH	13.5	2.5	7.7	14.5	5.0	8.8	9.0	3.5	5.7	6.0	.0	2.8

15303900 KUSKOKWIM RIVER AT LISKYS CROSSING NEAR STONY RIVER

LOCATION.--Lat 62°02′51″, long 156°12′42″, in NE¼ SE¼ sec. 27, T. 23 N., R. 38 W. (Iditarod A-1 quad), Hydrologic Unit 19030405, on the downstream point of the first channel island located 0.25 mi above Lisky's house site (historic, house since destroyed), 22 mi northeast of the village of Stony River.

PERIOD OF RECORD.--May 1996 to current year (no winter record).

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above sea level from topographic map.

REMARKS.-- GOES satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed 33.80 ft, July 11, 1998, but may have been higher during a period of missing record. Minimum gage height observed 22.94 ft, October 11, 1997, but may have been lower during a period of missing record.

EXTREMES FOR CURRENT PERIOD.--October 1-14, 1999, June 14 to September 30 2000; Maximum gage height 33.13 ft, September 26; minimum gage height 24.87 ft, October 14.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	25.36	---	---	---	---	---	---	---	---	26.38	27.71	27.09
2	25.70	---	---	---	---	---	---	---	---	26.60	27.52	27.16
3	26.05	---	---	---	---	---	---	---	---	26.81	27.37	27.39
4	26.27	---	---	---	---	---	---	---	---	26.70	27.37	27.44
5	26.50	---	---	---	---	---	---	---	---	26.50	27.60	27.52
6	26.59	---	---	---	---	---	---	---	---	26.27	27.76	27.62
7	26.41	---	---	---	---	---	---	---	---	26.23	28.32	27.64
8	26.13	---	---	---	---	---	---	---	---	26.38	28.73	27.58
9	25.88	---	---	---	---	---	---	---	---	26.76	28.64	27.72
10	25.67	---	---	---	---	---	---	---	---	27.03	28.55	27.76
11	25.49	---	---	---	---	---	---	---	---	27.09	28.38	28.00
12	25.33	---	---	---	---	---	---	---	---	27.17	28.24	28.05
13	25.18	---	---	---	---	---	---	---	---	27.22	27.96	28.02
14	24.98	---	---	---	---	---	---	---	26.60	27.34	27.99	28.05
15	---	---	---	---	---	---	---	---	26.69	27.58	28.00	28.15
16	---	---	---	---	---	---	---	---	26.68	27.83	28.46	28.42
17	---	---	---	---	---	---	---	---	26.64	28.32	30.19	27.96
18	---	---	---	---	---	---	---	---	26.65	29.08	31.20	27.53
19	---	---	---	---	---	---	---	---	26.54	29.31	31.06	27.21
20	---	---	---	---	---	---	---	---	26.36	29.54	30.63	26.93
21	---	---	---	---	---	---	---	---	26.11	29.74	30.35	26.96
22	---	---	---	---	---	---	---	---	25.94	29.35	30.24	27.53
23	---	---	---	---	---	---	---	---	25.82	28.82	30.03	28.27
24	---	---	---	---	---	---	---	---	25.68	28.62	29.71	29.50
25	---	---	---	---	---	---	---	---	25.48	28.41	29.19	31.96
26	---	---	---	---	---	---	---	---	25.36	28.19	28.65	32.95
27	---	---	---	---	---	---	---	---	25.39	27.97	28.27	32.56
28	---	---	---	---	---	---	---	---	25.65	28.03	27.85	31.62
29	---	---	---	---	---	---	---	---	26.08	28.09	27.63	30.70
30	---	---	---	---	---	---	---	---	26.28	27.91	27.26	30.00
31	---	---	---	---	---	---	---	---	---	27.75	27.12	---
MEAN	---	---	---	---	---	---	---	---	---	27.71	28.64	28.51
MAX	---	---	---	---	---	---	---	---	---	29.74	31.20	32.95
MIN	---	---	---	---	---	---	---	---	---	26.23	27.12	26.93

15304000 KUSKOKWIM RIVER AT CROOKED CREEK

LOCATION.--Lat 61°52′16″, long 158°06′03″, in NE¼ NE¼ sec. 32, T. 21 N., R. 48 W. (Sleetmute D-6 quad), Hydrologic Unit 19030501, on right bank at village of Crooked Creek, 0.1 mi upstream from Crooked Creek.

DRAINAGE AREA.--31,100 mi^2, approximately.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1951 to September 1994, October 1995 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 200 ft above sea level, from topographic map. Prior to August 6, 1977, non-recording gage at site 1,600 ft upstream at same datum. From August 6, 1977, to September 30, 1991, water-stage recorder at site 2,300 ft upstream at same datum. From October 1, 1991 to September 30, 1994, and October 1, 1995 to August 7, 1997 non-recording gage.

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

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	50300	e28000	e15000	e12000	e10000	e9800	e9800	e94000	62800	52800	62300	62000
2	57800	e26000	e15000	e11000	e10000	e9800	e9800	e106000	62700	52700	63900	61200
3	68000	e26000	e15000	e11000	e10000	e9800	e9800	e110000	63300	52600	63800	61600
4	74800	e24000	e15000	e11000	e10000	e9800	e9800	e108000	64400	52800	62900	63100
5	77900	e24000	e15000	e11000	e10000	e9800	e9800	e104000	65200	52800	65200	62600
6	77000	e24000	e14000	e11000	e10000	e9800	e10000	e100000	65600	53300	66900	62800
7	74200	e24000	e14000	e11000	e10000	e9800	e10000	e98000	64700	55100	67900	65500
8	70000	e22000	e14000	e11000	e10000	e9800	e10000	e96000	64500	54700	68800	65200
9	65600	e22000	e14000	e11000	e10000	e9800	e11000	e94000	65200	53700	68700	65300
10	61600	e22000	e14000	e11000	e10000	e9800	e11000	e92000	66600	54700	67300	65500
11	58300	e22000	e13000	e11000	e10000	e9800	e11000	e90000	68700	56600	65700	66700
12	55200	e20000	e13000	e11000	e10000	e9800	e12000	e88000	71000	57300	63800	70200
13	52800	e20000	e13000	e11000	e10000	e9800	e12000	e86000	70200	56600	62900	74100
14	50400	e20000	e13000	e11000	e10000	e9800	e12000	83400	67900	56300	63300	76600
15	46900	e20000	e13000	e11000	e10000	e9800	e13000	82300	66000	57600	69300	75500
16	45000	e20000	e13000	e11000	e10000	e9600	e13000	79500	63200	59300	76400	72300
17	45000	e18000	e13000	e11000	e10000	e9600	e14000	78600	61300	61900	74300	69500
18	41800	e18000	e13000	e11000	e10000	e9600	e15000	79200	60000	64700	78400	66400
19	41200	e18000	e13000	e11000	e10000	e9600	e16000	80300	58600	71300	82800	63100
20	39300	e18000	e13000	e11000	e10000	e9600	e17000	81500	57500	72500	82800	60100
21	38800	e18000	e12000	e11000	e9800	e9600	e19000	82300	56000	71400	80200	58900
22	36700	e18000	e12000	e11000	e9800	e9600	e21000	83800	54900	71300	77300	62400
23	36400	e16000	e12000	e11000	e9800	e9600	e23000	83700	53600	69100	75000	75200
24	33700	e16000	e12000	e11000	e9800	e9600	e25000	81900	51700	66600	72100	91600
25	32400	e16000	e12000	e11000	e9800	e9600	e29000	79200	50300	65600	68700	97000
26	32000	e16000	e12000	e10000	e9800	e9600	e34000	76800	49100	66100	65200	103000
27	31000	e16000	e12000	e10000	e9800	e9600	e40000	73100	48900	65500	62300	103000
28	e30000	e16000	e12000	e10000	e9800	e9600	e50000	69500	49200	62300	60400	97800
29	e30000	e16000	e12000	e10000	e9800	e9600	e64000	67100	49300	60800	61400	89900
30	e28000	e16000	e12000	e10000	---	e9600	e80000	65400	51200	60400	61400	82500
31	e28000	---	e12000	e10000	---	e9600	---	63600	---	60300	61500	---
TOTAL	1510100	600000	407000	336000	288200	300600	621000	2657200	1803600	1868700	2122900	2190600
MEAN	48710	20000	13130	10840	9938	9697	20700	85720	60120	60280	68480	73020
MAX	77900	28000	15000	12000	10000	9800	80000	110000	71000	72500	82800	103000
MIN	28000	16000	12000	10000	9800	9600	9800	63600	48900	52600	60400	58900
AC-FT	2995000	1190000	807300	666500	571600	596200	1232000	5271000	3577000	3707000	4211000	4345000
CFSM	1.57	.64	.42	.35	.32	.31	.67	2.76	1.93	1.94	2.20	2.35
IN.	1.81	.72	.49	.40	.34	.36	.74	3.18	2.16	2.24	2.54	2.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2000, BY WATER YEAR (WY)#

MEAN	44330	21210	15210	13000	11640	10740	14530	79920	82490	68050	76040	69640
MAX	102000	36400	25000	22450	20710	19550	41000	161700	235100	119500	169800	150900
(WY)	1994	1991	1962	1991	1991	1991	1967	1957	1964	1980	1963	1951
MIN	22650	12730	10000	8400	6900	6100	8600	22130	33880	40910	41840	30550
(WY)	1979	1981	1957	1966	1966	1966	1953	1964	1954	1997	1957	1976

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1951 - 2000#	
ANNUAL TOTAL	16370100		14705900			
ANNUAL MEAN	44850		40180		42240	
HIGHEST ANNUAL MEAN					62120	1963
LOWEST ANNUAL MEAN					28600	1997
HIGHEST DAILY MEAN	160000	May 19	110000	May 3	391000	Jun 5 1964
LOWEST DAILY MEAN	a8000	Mar 11	b9600	Mar 16	c6100	Mar 1 1966
ANNUAL SEVEN-DAY MINIMUM	8000	Mar 11	9600	Mar 16	6100	Mar 1 1966
INSTANTANEOUS PEAK FLOW			d		392000	Jun 5 1964
INSTANTANEOUS PEAK STAGE					f25.74	Jun 5 1964
ANNUAL RUNOFF (AC-FT)	32470000		29170000		30600000	
ANNUAL RUNOFF (CFSM)	1.44		1.29		1.36	
ANNUAL RUNOFF (INCHES)	19.58		17.59		18.45	
10 PERCENT EXCEEDS	98500		78500		94000	
50 PERCENT EXCEEDS	25000		32200		26000	
90 PERCENT EXCEEDS	8600		9800		10000	

\# See Period of Record, partial years used in monthly computations.
a Mar 11 to Apr 15
b Mar 16-31
c Mar 1-31, 1966
d Not determined. See Highest Daily Mean.
e Estimated
f From floodmarks, backwater from ice, at different site, same datum

15304000 KUSKOKWIM RIVER AT CROOKED CREEK--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1951, 1955 to 1972, 1974 to 1994, 1996 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: 1957 to 1967 (seasonal), and 1977 to August 1979 (seasonal).
SPECIFIC CONDUCTANCE: 1965 to 1967 (seasonal).

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC- ATION, CROSS SECTION (FT FM R BK) (72103)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
MAR							
29...	1800	1000	200	9660	260.0	.0	.0
29...	1802	1000	300	9660	260.0	.0	.0
29...	1804	1000	500	9660	--	.0	.0

15304060 KUSKOKWIM RIVER AT ANIAK

LOCATION.--Lat 61°35′14″, long 159°32′54″, in SE¼ SE¼ sec. 2, T. 17 N., R. 57 W. (Russian Mission C-2 quad), Hydrologic unit 19030502, on the left bank near the NW corner of the west end of the runway in the village of Aniak.

WATER-STAGE RECORDS

PERIOD OF RECORD.--May 1996 to present (no winter record).

GAGE.--Water-stage recorder. A supplementary stage gage was installed April 23, 1998 approximately 1 mi upstream from gage of record. This gage records water elevation at the Aniak city dike system during ice break-up events. Elevation of the gage is 75 ft above sea level from topographic map.

REMARKS.--GOES satellite telemetry at station. Supplementary stage records are available from the computer files of the Alaska District.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed 26.55 ft, July 12,1998, but may have been higher during periods of missing record. Minimum gage height observed 15.33 ft, October 12, 1997, but may have been lower during periods of missing record.

EXTREMES FOR CURRENT PERIOD.--October 1-10, 1999 and May 13 to September 30, 2000: Maximum gage height observed 21.03 ft, October 06, but may have been higher during periods of missing record. Minimum gage height observed 17.18 ft, June 29, but may have been lower during periods of missing record.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18.50	---	---	---	---	---	---	---	18.71	17.49	17.85	17.55
2	19.12	---	---	---	---	---	---	---	18.80	17.56	18.03	17.55
3	20.01	---	---	---	---	---	---	---	18.87	17.49	18.16	17.48
4	20.65	---	---	---	---	---	---	---	18.92	17.46	18.27	17.54
5	20.95	---	---	---	---	---	---	---	18.98	17.46	18.32	17.59
6	21.01	---	---	---	---	---	---	---	19.09	17.45	18.39	17.59
7	20.87	---	---	---	---	---	---	---	19.09	17.50	18.41	17.73
8	20.60	---	---	---	---	---	---	---	19.28	17.60	18.40	17.91
9	20.24	---	---	---	---	---	---	---	19.37	17.48	18.43	17.91
10	19.88	---	---	---	---	---	---	---	19.46	17.42	18.39	17.93
11	---	---	---	---	---	---	---	---	19.60	17.53	18.28	18.03
12	---	---	---	---	---	---	---	---	19.68	17.66	18.18	18.18
13	---	---	---	---	---	---	---	19.99	19.67	17.64	18.08	18.46
14	---	---	---	---	---	---	---	19.94	19.46	17.62	18.15	18.66
15	---	---	---	---	---	---	---	19.99	19.20	17.61	18.20	18.70
16	---	---	---	---	---	---	---	19.85	18.94	17.70	18.72	18.51
17	---	---	---	---	---	---	---	19.75	18.71	17.94	18.87	18.29
18	---	---	---	---	---	---	---	19.89	18.51	18.14	18.88	18.06
19	---	---	---	---	---	---	---	20.03	18.35	18.45	19.27	17.78
20	---	---	---	---	---	---	---	20.15	18.27	18.73	19.41	17.49
21	---	---	---	---	---	---	---	20.23	18.12	18.69	19.29	17.33
22	---	---	---	---	---	---	---	20.27	17.93	18.64	19.07	17.50
23	---	---	---	---	---	---	---	20.30	17.80	18.58	18.85	17.90
24	---	---	---	---	---	---	---	20.17	17.64	18.40	18.63	19.06
25	---	---	---	---	---	---	---	19.93	17.47	18.20	18.36	19.76
26	---	---	---	---	---	---	---	19.71	17.36	18.15	18.07	20.05
27	---	---	---	---	---	---	---	19.47	17.26	18.12	17.85	20.26
28	---	---	---	---	---	---	---	19.20	17.22	17.97	17.73	20.11
29	---	---	---	---	---	---	---	18.94	17.22	17.78	17.60	19.70
30	---	---	---	---	---	---	---	18.77	17.32	17.71	17.67	19.22
31	---	---	---	---	---	---	---	18.70	---	17.69	17.59	---
MEAN	---	---	---	---	---	---	---	---	18.54	17.87	18.37	18.33
MAX	---	---	---	---	---	---	---	---	19.68	18.73	19.41	20.26
MIN	---	---	---	---	---	---	---	---	17.22	17.42	17.59	17.33

15304060 KUSKOKWIM RIVER AT ANIAK --Continued

WATER-QUALITY RECORDS

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

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

INSTRUMENTATION.--Electronic water temperature recorder set for 1-hour recording interval.

REMARKS.--No record from October 1-May 5 when probe was removed from water to protect it from shifting ice floes, and from June 1-12 when probe was covered by silt. Partial water temperature record on May 6 and June 13. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the average for the river by cross section on September 21. A 0.5°C variation was found within the cross section. The variation found between mean stream temperature and sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum recorded, 15.5°C, July 22-24, 1998, may have been higher during periods of missing record; minimum, 0.0°C, May 14-15, 1999.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 14.5°C, July 12; minimum recorded, 2.0°C, May 11-12.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC-ATION, CROSS SECTION (FT FM L BANK) (00009)	GAGE HEIGHT (FEET) (00065)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	TEMPER-ATURE WATER (DEG C) (00010)
SEP							
21...	2000	1500	5.00	17.38	10	8010	6.5
21...	1958	1500	300	17.38	10	8010	6.0
21...	1956	1500	600	17.38	10	8010	6.0
21...	1954	1500	900	17.38	10	8010	6.0
21...	1952	1500	1200	17.38	10	8010	6.0

15304060 KUSKOKWIM RIVER AT ANIAK --Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	3.5	---	---
7	---	---	---	---	---	---	---	---	---	5.0	3.5	4.0
8	---	---	---	---	---	---	---	---	---	5.5	4.0	5.0
9	---	---	---	---	---	---	---	---	---	5.0	3.0	4.0
10	---	---	---	---	---	---	---	---	---	3.0	2.5	2.5
11	---	---	---	---	---	---	---	---	---	3.0	2.0	2.0
12	---	---	---	---	---	---	---	---	---	4.5	2.0	3.0
13	---	---	---	---	---	---	---	---	---	5.5	4.0	4.5
14	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
15	---	---	---	---	---	---	---	---	---	5.5	4.5	5.0
16	---	---	---	---	---	---	---	---	---	6.0	5.0	5.5
17	---	---	---	---	---	---	---	---	---	6.5	5.5	5.5
18	---	---	---	---	---	---	---	---	---	6.5	5.5	6.0
19	---	---	---	---	---	---	---	---	---	6.0	5.5	5.5
20	---	---	---	---	---	---	---	---	---	6.0	5.5	5.5
21	---	---	---	---	---	---	---	---	---	6.0	5.0	5.5
22	---	---	---	---	---	---	---	---	---	5.0	5.0	5.0
23	---	---	---	---	---	---	---	---	---	5.5	5.0	5.0
24	---	---	---	---	---	---	---	---	---	5.0	5.0	5.0
25	---	---	---	---	---	---	---	---	---	6.0	5.0	5.0
26	---	---	---	---	---	---	---	---	---	6.5	5.5	6.0
27	---	---	---	---	---	---	---	---	---	6.5	5.5	6.0
28	---	---	---	---	---	---	---	---	---	5.5	5.0	5.5
29	---	---	---	---	---	---	---	---	---	5.5	5.0	5.0
30	---	---	---	---	---	---	---	---	---	5.5	5.5	5.5
31	---	---	---	---	---	---	---	---	---	6.0	5.5	5.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	10.5	9.5	10.0	10.5	10.0	10.5	9.0	9.0	9.0
2	---	---	---	11.5	9.5	10.5	11.5	10.5	11.0	9.0	9.0	9.0
3	---	---	---	12.0	11.0	11.5	11.5	11.0	11.5	9.0	9.0	9.0
4	---	---	---	12.5	11.5	12.0	11.0	10.5	11.0	9.0	9.0	9.0
5	---	---	---	13.0	11.5	12.0	10.5	10.0	10.5	9.0	8.5	8.5
6	---	---	---	13.0	12.5	12.5	10.5	10.0	10.0	8.5	8.5	8.5
7	---	---	---	12.5	11.5	12.0	10.5	10.0	10.5	8.5	8.0	8.5
8	---	---	---	12.0	11.5	12.0	10.5	10.0	10.0	8.5	8.0	8.0
9	---	---	---	12.0	11.5	12.0	10.0	10.0	10.0	8.0	8.0	8.0
10	---	---	---	12.0	11.5	12.0	10.0	9.5	9.5	8.0	8.0	8.0
11	---	---	---	13.0	12.0	12.5	10.0	9.5	10.0	8.0	8.0	8.0
12	---	---	---	14.5	12.5	13.5	10.5	10.0	10.5	8.0	7.5	7.5
13	9.0	---	---	14.0	13.0	13.5	11.0	10.5	11.0	7.5	7.5	7.5
14	9.5	9.0	9.0	13.0	11.5	12.0	11.0	11.0	11.0	7.5	7.0	7.5
15	9.5	8.5	9.0	11.5	11.0	11.0	11.0	10.5	11.0	7.0	7.0	7.0
16	9.5	9.0	9.0	11.0	10.5	11.0	11.0	11.0	11.0	7.0	7.0	7.0
17	10.0	9.0	9.5	11.0	10.5	10.5	11.0	11.0	11.0	7.0	6.5	7.0
18	10.0	9.0	9.5	11.0	10.0	10.5	11.0	10.5	10.5	6.5	6.5	6.5
19	9.5	8.5	9.0	11.5	11.0	11.5	11.0	10.5	10.5	6.5	6.0	6.5
20	9.5	8.5	9.0	11.5	11.0	11.5	11.0	11.0	11.0	6.5	6.0	6.0
21	10.5	8.5	9.5	11.5	10.5	11.0	11.0	11.0	11.0	7.0	6.5	6.5
22	11.5	9.5	10.5	12.0	11.0	11.5	11.0	10.5	10.5	7.0	7.0	7.0
23	12.0	10.0	11.0	12.0	11.5	12.0	10.5	10.0	10.5	7.0	7.0	7.0
24	13.5	11.0	12.0	12.0	11.5	12.0	10.0	10.0	10.0	7.0	7.0	7.0
25	13.0	12.0	12.5	12.0	11.5	11.5	10.0	9.5	9.5	7.0	7.0	7.0
26	13.5	12.0	13.0	11.5	11.0	11.0	9.5	9.0	9.0	7.0	6.5	6.5
27	13.0	12.5	13.0	11.5	11.0	11.0	9.0	9.0	9.0	6.5	6.5	6.5
28	12.5	11.0	11.5	11.5	11.0	11.0	9.0	9.0	9.0	6.5	6.0	6.0
29	11.0	10.0	10.5	11.0	10.5	10.5	9.5	9.0	9.5	6.0	5.5	6.0
30	10.5	9.5	10.0	10.5	10.0	10.5	9.5	9.5	9.5	5.5	5.5	5.5
31	---	---	---	10.0	9.5	10.0	9.5	9.0	9.0	---	---	---
MONTH	---	---	---	14.5	9.5	11.5	11.5	9.0	10.3	9.0	5.5	7.4

15320100 WADE CREEK TRIBUTARY NEAR CHICKEN

LOCATION.-- Lat 64°07′06″, long 141°33′13″, in SE¼ 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 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, 131 ft^3/s, June 15, gage height, 21.99 ft, no flow most days during the winter.

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	1.1	---	---	---	---	---	---	e4.3	13	1.5	2.5	2.6
2	.80	---	---	---	---	---	---	e5.4	10	1.2	2.2	2.6
3	.77	---	---	---	---	---	---	e6.5	10	4.6	1.9	2.6
4	.69	---	---	---	---	---	---	e8.5	8.8	4.6	1.7	2.5
5	.66	---	---	---	---	---	---	e6.0	6.8	5.7	1.8	2.5
6	.61	---	---	---	---	---	---	e7.0	5.7	18	1.9	2.5
7	.61	---	---	---	---	---	---	e8.7	5.0	6.0	1.7	3.4
8	.57	---	---	---	---	---	---	e11	4.9	2.9	1.7	3.9
9	.53	---	---	---	---	---	---	e13	8.5	2.1	1.7	7.4
10	.51	---	---	---	---	---	---	e12	17	4.1	1.6	5.2
11	e.50	---	---	---	---	---	---	e11	13	9.5	1.8	5.2
12	e.50	---	---	---	---	---	---	8.3	8.0	5.3	1.9	5.2
13	e.40	---	---	---	---	---	---	7.2	5.4	3.2	3.1	4.0
14	e.40	---	---	---	---	---	---	5.3	40	2.3	5.5	4.3
15	e.30	---	---	---	---	---	---	4.4	94	2.0	4.5	4.7
16	e.30	---	---	---	---	---	---	5.5	25	1.6	3.0	4.2
17	e.30	---	---	---	---	---	---	11	10	1.6	2.4	5.0
18	e.30	---	---	---	---	---	---	15	8.4	1.8	2.6	4.2
19	e.20	---	---	---	---	---	---	16	7.0	2.3	2.9	3.8
20	e.20	---	---	---	---	---	---	17	4.3	4.8	2.6	4.0
21	e.20	---	---	---	---	---	---	16	7.0	2.7	2.4	4.1
22	e.20	---	---	---	---	---	---	13	8.3	2.0	2.1	3.4
23	e.20	---	---	---	---	---	---	36	5.1	2.4	1.9	3.3
24	e.20	---	---	---	---	---	---	27	4.0	9.6	1.8	3.2
25	e.20	---	---	---	---	---	---	25	2.8	9.7	5.5	3.3
26	e.20	---	---	---	---	---	---	33	2.0	7.8	13	5.2
27	e.20	---	---	---	---	---	---	24	2.0	6.5	6.7	4.6
28	e.10	---	---	---	---	---	---	21	3.5	10	4.6	e3.7
29	e.10	---	---	---	---	---	---	18	2.7	5.2	3.7	e2.7
30	e.10	---	---	---	---	---	---	15	1.9	3.3	3.2	e2.2
31	e.10	---	---	---	---	---	---	14	---	2.7	2.8	---
TOTAL	12.05	---	---	---	---	---	---	425.1	344.1	147.0	96.7	115.5
MEAN	.39	---	---	---	---	---	---	13.7	11.5	4.74	3.12	3.85
MAX	1.1	---	---	---	---	---	---	36	94	18	13	7.4
MIN	.10	---	---	---	---	---	---	4.3	1.9	1.2	1.6	2.2
AC-FT	24	---	---	---	---	---	---	843	683	292	192	229
CFSM	.09	---	---	---	---	---	---	3.23	2.71	1.12	.74	.91
IN.	.11	---	---	---	---	---	---	3.73	3.02	1.29	.85	1.01

e Estimated

15356000 YUKON RIVER AT EAGLE
(International Gaging Station)

LOCATION.--Lat 64°47′22″, long 141°11′52″, in NW¼ 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 good except for estimated daily discharges, which are poor. GOES satellite telemetry at station.

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	92200	e31000	e25800	e20500	e18100	e16900	e16500	e23500	174000	232000	186000	217000
2	89300	e30000	e25500	e20400	e18100	e16900	e16500	e25000	176000	237000	182000	213000
3	87200	e28000	e25000	e20300	e18000	e16900	e16500	e28000	176000	235000	181000	209000
4	85200	e27000	e24800	e20200	e18000	e16800	e16500	e32000	178000	230000	183000	201000
5	82000	e26000	e24500	e20100	e18000	e16800	e16500	e50000	182000	227000	184000	192000
6	79000	e25000	e24300	e20000	e17900	e16800	e16500	e70000	186000	225000	191000	184000
7	77100	e24000	e24100	e20000	e17900	e16800	e16500	e90000	195000	229000	199000	178000
8	76500	e23000	e24000	e19900	e17900	e16800	e16500	107000	205000	223000	202000	175000
9	76100	e22800	e23800	e19800	e17800	e16700	e16500	115000	214000	211000	198000	175000
10	75200	e22800	e23600	e19700	e17800	e16700	e16500	120000	223000	202000	190000	180000
11	73800	e23000	e23300	e19600	e17700	e16700	e16500	126000	234000	206000	186000	186000
12	72200	e24000	e23200	e19500	e17700	e16700	e16500	124000	243000	214000	178000	189000
13	70600	e25000	e23000	e19400	e17600	e16600	e16500	125000	247000	217000	172000	189000
14	69200	e26000	e22800	e19300	e17600	e16600	e16500	127000	254000	223000	173000	186000
15	68400	e27000	e22700	e19200	e17500	e16600	e16500	120000	280000	236000	179000	183000
16	66300	e27500	e22500	e19100	e17400	e16600	e16500	109000	312000	245000	187000	180000
17	64700	e28000	e22400	e19000	e17300	e16600	e16500	98400	315000	241000	198000	177000
18	64100	e28200	e22200	e19000	e17300	e16600	e16500	95200	307000	239000	205000	175000
19	63400	e28400	e22100	e19000	e17200	e16600	e16500	101000	317000	231000	210000	175000
20	62900	e28600	e22000	e18900	e17200	e16600	e16500	109000	320000	227000	212000	176000
21	e60000	e28400	e21900	e18900	e17100	e16600	e16800	124000	312000	222000	208000	177000
22	e57000	e28200	e21800	e18800	e17100	e16600	e17000	128000	309000	210000	204000	177000
23	e54000	e28000	e21600	e18700	e17000	e16600	e17200	133000	297000	201000	205000	175000
24	e51000	e27800	e21500	e18600	e17000	e16600	e17600	154000	273000	199000	210000	174000
25	e47500	e27600	e21300	e18500	e17000	e16600	e18000	167000	255000	206000	218000	179000
26	e44000	e27200	e21200	e18500	e17000	e16600	e18500	171000	243000	198000	223000	194000
27	e42000	e26800	e21100	e18400	e17000	e16600	e19000	173000	232000	194000	232000	206000
28	e39500	e26400	e21000	e18300	e16900	e16600	e20000	168000	223000	192000	234000	208000
29	e37000	e26200	e20800	e18200	e16900	e16600	e21000	161000	217000	196000	233000	206000
30	e35000	e26000	e20700	e18100	---	e16600	e22000	160000	220000	196000	228000	200000
31	e32000	---	e20600	e18100	---	e16600	---	166000	---	191000	222000	---
TOTAL	1994400	797900	705100	596000	507000	516900	517100	3500100	7319000	6735000	6213000	5636000
MEAN	64340	26600	22750	19230	17480	16670	17240	112900	244000	217300	200400	187900
MAX	92200	31000	25800	20500	18100	16900	22000	173000	320000	245000	234000	217000
MIN	32000	22800	20600	18100	16900	16600	16500	23500	174000	191000	172000	174000
AC-FT	3956000	1583000	1399000	1182000	1006000	1025000	1026000	6942000	14520000	13360000	12320000	11180000
CFSM	.57	.23	.20	.17	.15	.15	.15	.99	2.15	1.91	1.77	1.66
IN.	.65	.26	.23	.20	.17	.17	.17	1.15	2.40	2.21	2.04	1.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2000, BY WATER YEAR (WY)#

MEAN	73320	37760	25390	20820	18650	17110	19290	124600	224000	182300	144000	112000
MAX	104700	62500	37870	30350	28000	25480	41530	201500	456800	269500	200400	187900
(WY)	1992	1953	1983	1992	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1950 - 2000#	
ANNUAL TOTAL	25321100		35037500			
ANNUAL MEAN	69370		95730		83880	
HIGHEST ANNUAL MEAN					110900	1964
LOWEST ANNUAL MEAN					61020	1958
HIGHEST DAILY MEAN	225000	Jun 20	320000	Jun 20	545000	Jun 12 1964
LOWEST DAILY MEAN	a14000	Mar 25	b16500	Apr 1	c7200	Feb 1 1951
ANNUAL SEVEN-DAY MINIMUM	14000	Mar 25	16500	Apr 1	7200	Feb 1 1951
INSTANTANEOUS PEAK FLOW			323000	Jun 19	545000	Jun 12 1964
INSTANTANEOUS PEAK STAGE			25.06	Jun 19	33.85	Jun 12 1964
INSTANTANEOUS PEAK STAGE			d32.17	May 6		
ANNUAL RUNOFF (AC-FT)	50220000		69500000		60760000	
ANNUAL RUNOFF (CFSM)	.61		.84		.74	
ANNUAL RUNOFF (INCHES)	8.30		11.48		10.04	
10 PERCENT EXCEEDS	149000		223000		197000	
50 PERCENT EXCEEDS	30000		29300		45000	
90 PERCENT EXCEEDS	15000		16600		16000	

\# See Period of Record; partial years used in monthly statistics
a From Mar. 25 to Apr. 12
b From April 1-20
c Feb. 1-28, 1951
d From floodmarks, backwater from ice
e Estimated

15388030 NATION RIVER NEAR NATION

LOCATION.--Lat 65°14′23″, long 141°39′10″, in NW¼ NW¼ sec.30, T.5 N., R.30 E.(Charley River A-2 quad), Hydrologic Unit 19040401, in Yukon-Charley Rivers National Preserve, on left bank, 3.75 mi upstream from mouth, 4.25 mi downstream from mouth of Hard Luck Creek, 5 mi northeast of Nation townsite, and 33 mi northwest of Eagle.

DRAINAGE AREA.--931 mi^2, revised.

PERIOD OF RECORD.--June 1991 to current year (no winter records in water years 1991-97).

GAGE.--Water-stage recorder. Elevation of gage is 850 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	e230	e160	e130	e100	e90	e85	e700	4210	e1200	e1700	1320
2	318	e230	e160	e130	e100	e90	e85	e1000	3730	e1200	e1600	1240
3	321	e220	e160	e120	e100	e90	e85	e1500	3900	e2500	e1500	1170
4	306	e220	e160	e120	e100	e90	e85	e2500	4060	e5000	e1500	1110
5	301	e220	e160	e120	e100	e90	e85	e1900	3420	e4000	e1900	1070
6	297	e210	e150	e120	e100	e90	e85	e1500	3130	e4400	e2300	1030
7	e320	e210	e150	e120	e100	e90	e85	e2500	3340	e3600	e2500	1250
8	e340	e210	e150	e120	e100	e90	e85	e3200	3510	e3000	e2600	1710
9	e360	e210	e147	e120	e100	e90	e85	e3300	3620	e2100	e2500	1810
10	e350	e200	e147	e120	e100	e90	e87	e2700	3190	e2300	e2500	1580
11	e340	e200	e147	e120	e100	e90	e90	2050	2970	e2500	e2700	1420
12	e330	e200	e144	e120	e100	e90	e93	1780	2710	e2600	e3600	1420
13	e320	e200	e144	e120	e100	e90	e96	1590	2540	e2500	e5500	1380
14	e320	e200	144	e120	e100	e90	e100	1180	3140	e2200	e12000	1290
15	e310	e190	e144	e120	e100	e90	e105	990	6020	e1800	e10000	1250
16	e300	e190	e140	e110	e100	e85	e110	910	4480	e1500	e6500	1300
17	e300	e190	e140	e110	e100	e85	e110	1150	3580	e1700	e5000	1260
18	e290	e190	e140	e110	e100	e85	e120	1920	e4000	e2000	e3600	1170
19	e290	e190	e140	e110	e95	e85	e120	2950	e5200	e2500	e2600	1090
20	e280	e180	e140	e110	e95	e85	e130	3750	e3500	e2800	e3200	1040
21	e280	e180	e140	e110	e95	e85	e140	5090	e2800	e2800	e2500	992
22	e270	e180	e140	e110	e95	e85	e150	3620	e2300	e2200	e2100	1030
23	e270	e180	e130	e110	e95	e85	e160	3400	e2000	e2500	e1800	1480
24	e260	e180	e130	e110	e95	e85	e170	3500	e1800	e3200	e1700	1650
25	e260	e170	e130	e110	e95	e85	e190	5950	1650	e4000	e2000	1570
26	e250	e170	e130	e110	e95	e85	e210	4590	1520	e3600	e2200	1860
27	e250	e170	e130	e110	e95	e85	e250	3190	1430	e3000	e2000	1840
28	e240	e170	e130	e110	e95	e85	e300	2900	1360	e2700	e1900	1550
29	e240	e170	e130	e110	e95	e85	e380	2450	e1300	e2400	1700	1300
30	e240	e160	e130	e110	---	e85	e500	2360	e1200	e2100	1570	1190
31	e230	---	e130	e110	---	e85	---	2640	---	e1900	1430	---
TOTAL	9075	5820	4417	3580	2845	2710	4376	78760	91610	81800	96200	40372
MEAN	293	194	142	115	98.1	87.4	146	2541	3054	2639	3103	1346
MAX	360	230	160	130	100	90	500	5950	6020	5000	12000	1860
MIN	230	160	130	110	95	85	85	700	1200	1200	1430	992
AC-FT	18000	11540	8760	7100	5640	5380	8680	156200	181700	162300	190800	80080
CFSM	.31	.21	.15	.12	.11	.09	.16	2.73	3.28	2.83	3.33	1.45
IN.	.36	.23	.18	.14	.11	.11	.17	3.15	3.66	3.27	3.84	1.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2000, BY WATER YEAR (WY)#

MEAN	421	240	161	109	79.4	61.8	225	2210	1612	1184	1616	1172
MAX	555	265	215	160	114	87.4	500	3143	3054	2639	3103	1780
(WY)	1999	1998	1998	1998	1998	2000	1998	1997	2000	2000	2000	1995
MIN	293	194	126	51.7	25.4	17.2	28.2	912	759	532	800	543
(WY)	2000	2000	1999	1999	1999	1999	1999	1999	1996	1996	1994	1996

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1991 - 2000#	
ANNUAL TOTAL	152649		421565			
ANNUAL MEAN	418		1152		856	
HIGHEST ANNUAL MEAN					1152	2000
LOWEST ANNUAL MEAN					445	1999
HIGHEST DAILY MEAN	3040	Jul 24	12000	Aug 14	12000	Jun 26 1994
LOWEST DAILY MEAN	a16	Mar 20	b85	Mar 16	a16	Mar 20 1999
ANNUAL SEVEN-DAY MINIMUM	16	Mar 20	85	Mar 16	16	Mar 20 1999
INSTANTANEOUS PEAK FLOW			15500	Aug 14	c15500	Aug 14 2000
INSTANTANEOUS PEAK STAGE			40.60	Aug 14	40.60	Aug 14 2000
ANNUAL RUNOFF (AC-FT)	302800		836200		620400	
ANNUAL RUNOFF (CFSM)	.45		1.24		.92	
ANNUAL RUNOFF (INCHES)	6.10		16.84		12.50	
10 PERCENT EXCEEDS	1020		3200		2470	
50 PERCENT EXCEEDS	220		250		800	
90 PERCENT EXCEEDS	18		90		90	

\# See Period of Record; partial years used in monthly statistics
a Mar. 20 to Apr. 14.
b Mar. 16 to Apr. 9.
c From rating curve extended above 4300 ft^3/s on basis of slope-area measurement of peak flow
e Estimated

15388060 KANDIK RIVER NEAR NATION

LOCATION.--Lat 65°23′44″, long 142°25′41″, in NW¼ NE¼ sec. 32, T. 6 N., R 25 E. (Charley River B-3 quad), Hydrologic Unit 19040401, in Yukon-Charley Rivers National Preserve, on right bank, 0.75 mi upstream from Threemile Creek, 3.75 mi upstream from mouth, 23 mi northwest of Nation townsite and 55 mi northwest of Eagle.

DRAINAGE AREA.--1,084 mi^2, revised.

PERIOD OF RECORD.--June 1994 to current year (no winter records in water years 1994-97).

GAGE.--Water-stage recorder. Elevation of gage is approximately 775 ft above sea level, from topographic map.

REMARKS.-- Records fair, except for estimated daily discharges and discharges over 22,000 ft^3/s, which are poor.

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	329	e140	e70	e53	e50	e49	e48	e230	6290	1120	2010	939
2	316	e140	e69	e53	e50	e49	e48	e360	6210	1080	1780	906
3	e310	e130	e68	e53	e50	e49	e48	e700	5730	1530	1540	1170
4	e310	e130	e67	e52	e50	e49	e48	e2500	5520	5860	1390	1070
5	e320	e120	e66	e52	e50	e49	e48	e2100	4570	3760	1660	947
6	334	e120	e65	e52	e50	e49	e48	e1800	3880	3820	2250	825
7	356	e120	e64	e52	e49	e49	e48	e2000	3540	4740	2560	843
8	368	e110	e64	e52	e49	e49	e48	e3000	3610	3110	2670	1190
9	352	e110	e63	e52	e49	e49	e48	e4000	3790	2250	2570	2000
10	328	e110	e62	e51	e49	e49	e49	e4600	3560	1940	2630	2050
11	296	e100	e61	e51	e49	e48	e49	4420	3380	2570	2460	1640
12	291	e100	e60	e51	e49	e48	e50	3650	3600	2440	3850	1580
13	e270	e100	e59	e51	e49	e48	e50	3100	3290	2670	6720	1510
14	e250	e97	e59	e51	e49	e48	e51	2390	3910	2450	20200	1380
15	e240	e95	e58	e51	e49	e48	e51	1950	7170	1910	16100	1220
16	e230	e93	e58	e51	e49	e48	e52	1770	6490	1520	e9000	1260
17	e220	e90	e58	e51	e49	e48	e52	2270	4320	1390	e6000	1340
18	e210	e88	e57	e51	e49	e48	e53	4230	4590	1910	3900	1210
19	e210	e86	e57	e51	e49	e48	e53	7060	5820	2390	3670	1040
20	e200	e85	e57	e50	e49	e48	e54	8270	4080	2650	3790	908
21	e200	e83	e56	e50	e49	e48	e55	10900	3040	2950	3170	817
22	e190	e82	e56	e50	e49	e48	e57	9360	2430	2400	2400	802
23	e190	e80	e56	e50	e49	e48	e59	8210	2190	1920	e1900	2440
24	e180	e78	e55	e50	e49	e48	e62	8090	1920	2870	e1600	3690
25	e180	e77	e55	e50	e49	e48	e65	9840	1620	5220	e2100	3220
26	e170	e75	e55	e50	e49	e48	e70	9550	1390	4200	2580	2720
27	e170	e74	e54	e50	e49	e48	e80	6560	1240	3320	2640	2680
28	e160	e73	e54	e50	e49	e48	e100	5830	1180	2930	e2000	2130
29	e160	e72	e54	e50	e49	e48	e130	5230	1100	2860	1600	1560
30	e150	e71	e54	e50	---	e48	e170	4670	1070	2480	1310	1300
31	e150	---	e53	e50	---	e48	---	4780	---	2140	1100	---
TOTAL	7640	2929	1844	1581	1427	1498	1844	143420	110530	84400	119150	46387
MEAN	246	97.6	59.5	51.0	49.2	48.3	61.5	4626	3684	2723	3844	1546
MAX	368	140	70	53	50	49	170	10900	7170	5860	20200	3690
MIN	150	71	53	50	49	48	48	230	1070	1080	1100	802
MED	230	94	58	51	49	48	52	4230	3600	2480	2560	1280
AC-FT	15150	5810	3660	3140	2830	2970	3660	284500	219200	167400	236300	92010
CFSM	.23	.09	.05	.05	.05	.04	.06	4.27	3.40	2.51	3.55	1.43
IN.	.26	.10	.06	.05	.05	.05	.06	4.92	3.79	2.90	4.09	1.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2000, BY WATER YEAR (WY)#

MEAN	328	129	72.4	45.5	31.9	24.9	189	2633	2003	1402	1986	1203
MAX	376	170	107	64.0	49.2	48.3	493	4626	3684	2723	3844	1865
(WY)	1999	1998	1998	1998	2000	2000	1998	2000	2000	2000	2000	1995
MIN	246	97.6	50.9	21.6	11.4	8.35	13.5	857	657	743	574	715
(WY)	2000	2000	1999	1999	1999	1999	1999	1999	1996	1996	1994	1996

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1994 - 2000#	
ANNUAL TOTAL	162372.5		522650			
ANNUAL MEAN	445		1428		946	
HIGHEST ANNUAL MEAN					1428	2000
LOWEST ANNUAL MEAN					457	1999
HIGHEST DAILY MEAN	4110	Jun 4	20200	Aug 14	20200	Aug 14 2000
LOWEST DAILY MEAN	a8.0	Mar 15	b48	Mar 11	a8.0	Mar 15 1999
ANNUAL SEVEN-DAY MINIMUM	8.0	Mar 15	48	Mar 11	8.0	Mar 15 1999
INSTANTANEOUS PEAK FLOW			24500	Aug 14	c24500	Aug 14 2000
INSTANTANEOUS PEAK STAGE			19.76	Aug 14	20.39	Jun 26 1994
ANNUAL RUNOFF (AC-FT)	322100		1037000		685100	
ANNUAL RUNOFF (CFSM)	.41		1.32		.87	
ANNUAL RUNOFF (INCHES)	5.57		17.94		11.85	
10 PERCENT EXCEEDS	1200		4020		2810	
50 PERCENT EXCEEDS	120		155		671	
90 PERCENT EXCEEDS	8.5		49		28	

\# See Period of Record; partial years used in monthly statistics
a Mar. 15 to Apr. 14, 1999
b Mar. 11 to Apr. 9
c From rating curve extended above 11,000 ft^3/s. May have been higher on June 26, 1994, pending further analysis.
e Estimated

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. Because the Water Survey of Canada computes discharge records by calendar year, data reported here are one year prior to those reported for U.S. gages.

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

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	e14400	e4450	e2000	e1150	e886	e795	e706	e671	32100	6180	7420	e31000
2	e13400	e4240	e1960	e1130	e879	e795	e703	e671	33700	5650	7030	e26400
3	e12200	e4060	e1920	e1120	e876	e791	e703	e671	33100	5230	6820	e23200
4	e11100	e3810	e1860	e1100	e869	e791	e699	e671	30300	4940	6750	e19100
5	e9500	e3810	e1820	e1080	e865	e788	e699	e671	29600	4870	6640	e16400
6	e8620	e3810	e1780	e1070	e858	e780	e696	e671	30200	4770	6430	e14500
7	e7450	e3810	e1730	e1050	e855	e780	e696	e671	33700	4630	6140	e12400
8	e5470	e3850	e1670	e1040	e851	e777	e692	e678	40300	4380	5970	e10900
9	e4770	e3880	e1610	e1030	e848	e777	e692	e685	37800	4310	5790	e9890
10	e4520	e3810	e1570	e1030	e848	e773	e689	e731	30500	4240	5540	e9540
11	e4410	e3640	e1530	e1010	e844	e770	e689	e770	25200	4560	5510	e9780
12	e4490	e3570	e1490	e1000	e837	e766	e689	e805	22200	4940	5440	e10200
13	e4730	e3520	e1470	e996	e833	e766	e685	e865	20100	5160	5510	e10500
14	e4980	e3500	e1440	e989	e833	e763	e685	e1000	19100	5050	6070	e10500
15	e5120	e3520	e1420	e985	e830	e759	e685	e1340	18600	4700	7560	e10300
16	e5260	e3500	e1410	e978	e830	e759	e685	e1620	17800	4520	9110	e9890
17	e5370	e3400	e1410	e971	e826	e756	e682	e2030	16500	4490	11900	e9360
18	e5370	e3220	e1390	e968	e823	e752	e682	e2540	15300	4410	16100	e8930
19	e5300	e2970	e1370	e964	e823	e749	e678	e3530	14100	4560	21000	e7770
20	e5230	e2780	e1350	e961	e819	e745	e678	e4520	13100	5690	24400	e6460
21	e5120	e2590	e1330	e950	e812	e742	e678	e5760	12500	6390	29400	e6070
22	e5120	e2390	e1330	e936	e812	e738	e678	e7380	12700	7060	33300	e6000
23	e5120	e2270	e1300	e932	e809	e735	e675	e8970	12000	8330	34500	e5900
24	e5120	e2180	e1260	e925	e809	e731	e675	e10900	11100	9220	34000	e5970
25	e5160	e2090	e1240	e922	e805	e727	e675	e13900	10100	8760	32900	e6140
26	e5190	e2040	e1230	e918	e802	e724	e675	17100	9390	9110	35300	e6390
27	e5190	e2030	e1220	e911	e802	e720	e675	20100	8860	8720	41000	e6500
28	e5190	e2030	e1210	e908	e798	e717	e675	27300	8160	8370	49100	e6360
29	e5160	e2030	e1190	e901	---	e713	e671	32600	7420	8160	e45900	e5970
30	e4980	e2030	e1170	e893	---	e710	e671	32500	6750	8020	e45900	e4800
31	e4660	---	e1170	e890	---	e706	---	31500	---	7840	e42400	---
TOTAL	197700	94830	45850	30708	23382	23395	20561	233821	612280	187260	600830	327120
MEAN	6377	3161	1479	991	835	755	685	7543	20410	6041	19380	10900
MAX	14400	4450	2000	1150	886	795	706	32600	40300	9220	49100	31000
MIN	4410	2030	1170	890	798	706	671	671	6750	4240	5440	4800
AC-FT	392100	188100	90940	60910	46380	46400	40780	463800	1214000	371400	1192000	648800
CFSM	.28	.14	.06	.04	.04	.03	.03	.33	.88	.26	.84	.47
IN.	.32	.15	.07	.05	.04	.04	.03	.38	.99	.30	.97	.53

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 1999, BY WATER YEAR (WY)

MEAN	4825	1833	1078	789	654	623	772	38580	42070	14930	18300	17940
MAX	8241	3161	1479	991	855	852	1711	63160	86470	29580	37940	34320
(WY)	1996	1999	1999	1999	1998	1998	1998	1990	1992	1994	1991	1995
MIN	2795	1122	882	551	398	383	562	5991	20410	6041	10090	9000
(WY)	1993	1997	1997	1997	1997	1997	1997	1997	1999	1999	1994	1992

SUMMARY STATISTICS	FOR 1998 CALENDAR YEAR		FOR 1999 WATER YEAR		WATER YEARS 1988 - 1999	
ANNUAL TOTAL	4577185		2397737			
ANNUAL MEAN	12540		6569		11910	
HIGHEST ANNUAL MEAN					16090	1995
LOWEST ANNUAL MEAN					6569	1999
HIGHEST DAILY MEAN	87900	May 14	49100	Aug 28	248000	Jun 1 1992
LOWEST DAILY MEAN	844	Mar 1	a671	Apr 29	b367	Mar 3 1997
ANNUAL SEVEN-DAY MINIMUM	848	Feb 26	671	Apr 29	369	Mar 1 1997
INSTANTANEOUS PEAK FLOW					250000	Jun 1 1992
INSTANTANEOUS PEAK STAGE					50.76	Jun 1 1992
INSTANTANEOUS LOW FLOW					470	Mar 19 1990
ANNUAL RUNOFF (AC-FT)	9079000		4756000		8627000	
ANNUAL RUNOFF (CFSM)	.54		.28		.52	
ANNUAL RUNOFF (INCHES)	7.37		3.86		7.00	
10 PERCENT EXCEEDS	34400		18800		33900	
50 PERCENT EXCEEDS	4730		3400		2030	
90 PERCENT EXCEEDS	855		701		598	

a From Apr. 29 to May 7
b From Mar. 3 to 6
e Estimated

15453500 YUKON RIVER NEAR STEVENS VILLAGE

LOCATION.--Lat 65°52′32″, long 149°43′04″, in SE¼ SW¼ 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.

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 240.00 ft above sea level.

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	122000	e53000	e44000	e32300	e25200	e21400	e20100	e27500	377000	306000	240000	293000
2	123000	e50000	e43500	e32000	e25000	e21300	e20100	e30000	374000	289000	239000	285000
3	122000	e47000	e43000	e31700	e24900	e21200	e20100	e32000	379000	276000	239000	276000
4	120000	e45000	e42500	e31400	e24800	e21100	e20100	e36000	394000	271000	242000	269000
5	117000	e43000	e42000	e31100	e24600	e21000	e20000	e40000	414000	273000	247000	263000
6	112000	e41000	e41500	e30900	e24500	e20900	e20000	e44000	426000	275000	244000	258000
7	108000	e38500	e41000	e30600	e24400	e20800	e20000	e50000	433000	276000	239000	252000
8	106000	e37000	e40500	e30300	e24200	e20700	e20000	e55000	436000	273000	234000	245000
9	102000	e36000	e40000	e30000	e24000	e20600	e20000	e64000	434000	270000	229000	235000
10	99300	e35500	e39600	e29700	e23800	e20500	e20000	e75000	433000	272000	230000	226000
11	97300	e35500	e39200	e29400	e23600	e20500	e20000	e86000	440000	271000	232000	220000
12	95700	e36000	e39000	e29200	e23400	e20400	e20000	e100000	454000	265000	233000	216000
13	94300	e37000	e38600	e29000	e23300	e20400	e20000	e130000	470000	255000	229000	215000
14	93100	e38000	e38200	e28800	e23200	e20300	e20000	e170000	485000	249000	224000	215000
15	91300	e39000	e37800	e28600	e23100	e20300	e20000	e210000	494000	256000	220000	218000
16	86600	e40000	e37400	e28400	e23000	e20200	e20000	e240000	493000	269000	217000	220000
17	80700	e41000	e37000	e28200	e22900	e20200	e20000	253000	485000	274000	230000	221000
18	83000	e42500	e36600	e28000	e22800	e20200	e20000	262000	483000	276000	250000	218000
19	83600	e44000	e36200	e27800	e22600	e20200	e20000	238000	493000	281000	254000	215000
20	84400	e45000	35800	e27600	e22500	e20200	e20000	202000	499000	281000	258000	212000
21	83500	e46000	e35400	e27400	e22300	e20200	e20200	181000	499000	277000	270000	209000
22	81300	e46500	e35100	e27200	e22200	e20100	e20400	187000	503000	277000	292000	207000
23	81000	e47000	e34800	e27000	e22100	e20100	e20600	212000	508000	280000	302000	206000
24	e76000	e47000	e34500	e26800	e22000	e20100	e21000	240000	503000	279000	297000	206000
25	e73000	e46500	e34200	e26600	e21900	e20100	e21400	263000	487000	271000	289000	206000
26	e71000	e46200	e33900	e26400	e21800	e20100	e22000	300000	462000	259000	284000	208000
27	e68000	e46000	e33600	e26200	e21700	20100	e22600	349000	426000	250000	281000	210000
28	e65000	e45500	e33300	e26000	e21600	e20100	e23400	389000	386000	253000	283000	213000
29	e62000	e45000	e33000	e25800	e21500	e20100	e24400	404000	352000	257000	288000	219000
30	e59000	e44500	e32800	e25600	---	e20100	e26000	398000	326000	251000	294000	230000
31	e56000	---	e32600	e25400	---	e20100	---	387000	---	243000	297000	---
TOTAL	2797100	1284200	1166600	885400	672900	633600	622400	5654500	13348000	8355000	7907000	6886000
MEAN	90230	42810	37630	28560	23200	20440	20750	182400	444900	269500	255100	229500
MAX	123000	53000	44000	32300	25200	21400	26000	404000	508000	306000	302000	293000
MIN	56000	35500	32600	25400	21500	20100	20000	27500	326000	243000	217000	206000
AC-FT	5548000	2547000	2314000	1756000	1335000	1257000	1235000	11220000	26480000	16570000	15680000	13660000
CFSM	.46	.22	.19	.15	.12	.10	.11	.93	2.27	1.37	1.30	1.17
IN.	.53	.24	.22	.17	.13	.12	.12	1.07	2.53	1.58	1.50	1.30

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2000, BY WATER YEAR (WY)

MEAN	96920	49990	36370	29800	25400	22430	22170	208600	338200	232800	197900	163400
MAX	127500	69670	48450	37680	32140	28970	28170	373000	614100	320200	255100	229500
(WY)	1991	1978	1983	1977	1981	1981	1981	1991	1992	1992	2000	2000
MIN	75340	34530	26770	23550	19320	16000	14800	90680	226800	178900	142400	116500
(WY)	1993	1990	1990	1996	1999	1999	1997	1992	1995	1996	1989	1989

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1977 - 2000	
ANNUAL TOTAL	35123900		50212700			
ANNUAL MEAN	96230		137200		119100	
HIGHEST ANNUAL MEAN					144400	1992
LOWEST ANNUAL MEAN					93910	1996
HIGHEST DAILY MEAN	309000	Jun 24	508000	Jun 23	823000	Jun 11 1992
LOWEST DAILY MEAN	a15000	Mar 22	b20000	Apr 5	c14000	Apr 14 1997
ANNUAL SEVEN-DAY MINIMUM	15000	Mar 22	20000	Apr 5	14000	Apr 14 1997
INSTANTANEOUS PEAK FLOW			509000	Jun 23	827000	Jun 11 1992
INSTANTANEOUS PEAK STAGE			48.40	Jun 23	59.60	Jun 11 1992
ANNUAL RUNOFF (AC-FT)	69670000		99600000		86270000	
ANNUAL RUNOFF (CFSM)	.49		.70		.61	
ANNUAL RUNOFF (INCHES)	6.66		9.52		8.24	
10 PERCENT EXCEEDS	215000		303000		277000	
50 PERCENT EXCEEDS	46000		46800		56000	
90 PERCENT EXCEEDS	16000		20200		22000	

a From Mar. 22 to Apr. 19
b From Apr. 5 to 20.
c From Apr. 14 to 25
e Estimated

15477730 LIESE CREEK NEAR BIG DELTA

LOCATION.--Lat 64°26′53″, long 144°52′59″, in SW¼ 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 Pogo Mine Camp site, and 34 mi northeast of Big Delta.

DRAINAGE AREA.--1.08 mi^2.

PERIOD OF RECORD.--October 1999 to September 2000.

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

REMARKS.--Records fair except for discharges below 0.15 ft^3/s and estimated daily discharges, which are poor.

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	e.11	e.00	e.00	e.00	e.00	e.00	e.00	e.00	6.3	.22	.24	2.6
2	e.08	e.00	e.00	e.00	e.00	e.00	e.00	e.00	5.3	.20	.21	2.7
3	e.07	e.00	e.00	e.00	e.00	e.00	e.00	e.00	6.4	.26	.21	2.6
4	e.07	e.00	e.00	e.00	e.00	e.00	e.00	e.00	6.3	.29	.19	2.3
5	e.07	e.00	e.00	e.00	e.00	e.00	e.00	e.00	5.3	.23	.20	1.9
6	e.07	e.00	e.00	e.00	e.00	e.00	e.00	e.00	4.8	.25	.21	1.6
7	e.07	e.00	e.00	e.00	e.00	e.00	e.00	e.00	4.5	.21	.21	1.4
8	e.06	e.00	e.00	e.00	e.00	e.00	e.00	e.01	3.5	.20	.19	1.5
9	e.06	e.00	e.00	e.00	e.00	e.00	e.00	e.02	3.8	.19	.20	1.4
10	e.04	e.00	e.00	e.00	e.00	e.00	e.00	e.04	3.3	.26	.19	1.3
11	e.03	e.00	e.00	e.00	e.00	e.00	e.00	e.06	2.4	.46	.33	1.3
12	e.02	e.00	e.00	e.00	e.00	e.00	e.00	e.08	1.8	.40	1.9	1.4
13	e.02	e.00	e.00	e.00	e.00	e.00	e.00	e.10	1.5	.34	6.4	1.3
14	e.02	e.00	e.00	e.00	e.00	e.00	e.00	e.13	1.4	.29	5.5	1.2
15	e.02	e.00	e.00	e.00	e.00	e.00	e.00	e.16	1.2	.28	4.3	1.1
16	e.02	e.00	e.00	e.00	e.00	e.00	e.00	e.20	1.2	.26	2.9	1.0
17	e.02	e.00	e.00	e.00	e.00	e.00	e.00	e.40	.99	.22	2.0	.91
18	e.02	e.00	e.00	e.00	e.00	e.00	e.00	e.60	.94	.20	2.0	.92
19	e.01	e.00	e.00	e.00	e.00	e.00	e.00	e1.0	.87	.84	2.9	.93
20	e.01	e.00	e.00	e.00	e.00	e.00	e.00	e2.0	.68	1.1	2.4	.90
21	e.01	e.00	e.00	e.00	e.00	e.00	e.00	e4.0	.60	.67	2.3	1.0
22	e.01	e.00	e.00	e.00	e.00	e.00	e.00	e7.0	.97	.52	3.9	1.1
23	e.01	e.00	e.00	e.00	e.00	e.00	e.00	6.1	1.4	.55	3.6	1.2
24	e.01	e.00	e.00	e.00	e.00	e.00	e.00	5.9	.99	.73	3.0	1.2
25	e.01	e.00	e.00	e.00	e.00	e.00	e.00	2.8	.77	.57	3.0	1.4
26	e.01	e.00	e.00	e.00	e.00	e.00	e.00	2.2	.62	.50	4.0	1.7
27	e.01	e.00	e.00	e.00	e.00	e.00	e.00	1.7	.49	.44	3.0	1.6
28	e.01	e.00	e.00	e.00	e.00	e.00	e.00	1.8	.45	.42	2.8	e1.3
29	e.01	e.00	e.00	e.00	e.00	e.00	e.00	3.0	.35	.30	2.3	e1.1
30	e.00	e.00	e.00	e.00	---	e.00	e.00	4.7	.25	.29	3.5	e1.0
31	e.00	---	e.00	e.00	---	e.00	---	6.1	---	.29	3.2	---
TOTAL	0.98	0.00	0.00	0.00	0.00	0.00	0.00	50.10	69.37	11.98	67.28	42.86
MEAN	.032	.000	.000	.000	.000	.000	.000	1.62	2.31	.39	2.17	1.43
MAX	.11	.00	.00	.00	.00	.00	.00	7.0	6.4	1.1	6.4	2.7
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.25	.19	.19	.90
MED	.02	.00	.00	.00	.00	.00	.00	.20	1.3	.29	2.3	1.3
AC-FT	1.9	.00	.00	.00	.00	.00	.00	99	138	24	133	85
CFSM	.03	.00	.00	.00	.00	.00	.00	1.50	2.14	.36	2.01	1.32
IN.	.03	.00	.00	.00	.00	.00	.00	1.73	2.39	.41	2.32	1.48

SUMMARY STATISTICS	FOR 2000 WATER YEAR	
ANNUAL TOTAL	242.57	
ANNUAL MEAN	.66	
HIGHEST DAILY MEAN	7.0	May 22
LOWEST DAILY MEAN	a.00	Oct 30
ANNUAL SEVEN-DAY MINIMUM	.00	Oct 30
INSTANTANEOUS PEAK FLOW	9.6	Aug 13
INSTANTANEOUS PEAK STAGE	20.39	Aug 13
INSTANTANEOUS PEAK STAGE	b22.8	May 18
ANNUAL RUNOFF (AC-FT)	481	
ANNUAL RUNOFF (CFSM)	.61	
ANNUAL RUNOFF (INCHES)	8.36	
10 PERCENT EXCEEDS	2.4	
50 PERCENT EXCEEDS	.00	
90 PERCENT EXCEEDS	.00	

a Oct.30 to May 7.
b Backwater from ice.
e Estimated

15477740 GOODPASTER RIVER NEAR BIG DELTA

LOCATION.--Lat 64°27′02″, long 144°56′32″, in SE¼ sec.27, T.5 S., R.14 E., (Big Delta B-2 quad), Hydrologic Unit 19040503, on left bank, 0.2 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.

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

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	e200	e92	e78	e52	e32	e29	e38	e400	2450	518	509	1180
2	e220	e92	e76	e50	e32	e30	e39	e580	2630	483	472	1040
3	e230	e92	e74	e49	e31	e30	e40	e700	3120	503	454	1030
4	e240	e94	e74	e48	e31	e31	e40	e800	3560	744	435	e900
5	e250	e94	e72	e47	e31	e31	e40	e740	3560	641	439	e860
6	e240	e94	e70	e46	e31	e31	e40	e640	3870	712	426	e820
7	e230	e96	e68	e45	e31	e31	e40	561	4470	731	420	e840
8	e220	e98	e68	e44	e31	e31	e40	896	3640	590	406	e880
9	e200	e100	e66	e43	e30	e31	e40	1200	2990	530	406	e880
10	e180	e100	e64	e42	e30	e31	e41	1010	3170	759	397	e820
11	e170	e100	e62	e41	e30	e31	e42	646	2600	2060	456	e960
12	e160	e105	e62	e40	e30	e31	e43	420	2230	1610	1250	e1100
13	e150	e110	e62	e39	e30	e31	e44	403	1960	1540	5690	e1060
14	e140	e110	e60	e38	e30	e31	e45	370	2310	1120	e7500	e1020
15	e130	e110	e60	e37	e30	e32	e46	319	1530	883	e4800	e1000
16	e125	e105	e58	e37	e30	e32	e48	332	1430	740	e3000	e980
17	e120	e105	e58	e36	e30	e32	e49	550	1110	666	e2200	e960
18	e115	e100	e58	e36	e29	e32	e50	1020	1000	662	1840	e960
19	e110	e100	e58	e35	e29	e33	e52	1340	2550	628	2030	e940
20	e110	e98	e58	e35	e29	e33	e54	1840	1570	677	1890	e920
21	e105	e96	e56	e35	e29	e33	e58	2550	1030	639	1260	e900
22	e105	e94	e56	e34	e29	e33	e64	2540	1010	606	1970	956
23	e100	e92	e56	e34	e29	e34	e70	2660	1060	576	1940	1130
24	e100	e90	e56	e34	e29	e35	e80	3720	915	636	1460	1040
25	e98	e88	e56	e33	e29	e36	e90	4000	814	607	1350	985
26	e96	e86	e56	e33	e29	e36	e110	2200	731	571	2190	1200
27	e96	e84	e56	e33	e29	e36	e140	1430	686	550	1470	1170
28	e94	e82	e54	e33	e29	e36	e180	1070	640	625	1050	1090
29	e94	e80	e54	e32	e29	e36	e230	1080	593	650	818	994
30	e94	e80	e54	e32	---	e36	e300	1330	555	577	998	946
31	e94	---	e52	e32	---	e37	---	1760	---	550	1670	---
TOTAL	4616	2867	1912	1205	868	1012	2193	39107	59784	23384	51196	29561
MEAN	149	95.6	61.7	38.9	29.9	32.6	73.1	1262	1993	754	1651	985
MAX	250	110	78	52	32	37	300	4000	4470	2060	7500	1200
MIN	94	80	52	32	29	29	38	319	555	483	397	820
AC-FT	9160	5690	3790	2390	1720	2010	4350	77570	118600	46380	101500	58630
CFSM	.22	.14	.09	.06	.04	.05	.11	1.86	2.94	1.11	2.44	1.46
IN.	.25	.16	.11	.07	.05	.06	.12	2.15	3.29	1.28	2.81	1.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY) #

MEAN	166	93.0	66.6	43.0	29.8	27.4	106	895	1035	616	1003	600
MAX	193	95.6	80.7	61.2	45.9	39.1	155	1262	1993	754	1651	985
(WY)	1999	2000	1998	1998	1998	1998	1998	2000	2000	2000	2000	2000
MIN	149	90.1	57.5	28.9	13.6	10.5	73.1	689	468	419	590	421
(WY)	2000	1999	1999	1999	1999	1999	2000	1999	1998	1999	1999	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000 #	
ANNUAL TOTAL	98335		217705			
ANNUAL MEAN	269		595		400	
HIGHEST ANNUAL MEAN					595	2000
LOWEST ANNUAL MEAN					272	1999
HIGHEST DAILY MEAN	1840	May 15	7500	Aug 14	7500	Aug 14 2000
LOWEST DAILY MEAN	a10	Mar 8	b29	Feb 18	a10	Mar 8 1999
ANNUAL SEVEN-DAY MINIMUM	10	Mar 8	29	Feb 18	10	Mar 8 1999
INSTANTANEOUS PEAK FLOW			10100	Aug 14	10100	Aug 14 2000
INSTANTANEOUS PEAK STAGE			19.49	Aug 14	19.49	Aug 14 2000
ANNUAL RUNOFF (AC-FT)	195000		431800		290000	
ANNUAL RUNOFF (CFSM)	.40		.88		.59	
ANNUAL RUNOFF (INCHES)	5.40		11.96		8.03	
10 PERCENT EXCEEDS	673		1630		995	
50 PERCENT EXCEEDS	115		105		170	
90 PERCENT EXCEEDS	12		31		31	

\# See Period of Record; partial years used in monthly statistics
a From Mar. 8 to 24
b From Feb. 18 to Mar 1
e Estimated

15477761 UPPER WEST CREEK NEAR BIG DELTA

LOCATION.--Lat 64°25′01″, long 144°50′55″, in SW¼ sec.6, T.6 S., R.15 E., (Big Delta B-2 quad), Hydrologic Unit 19040503, on right bank, 5.1 mi upstream from mouth, 3.4 mi southeast of Pogo Mine Camp site, and 31 mi northeast of Big Delta.

DRAINAGE AREA.--1.64 mi^2.

PERIOD OF RECORD.--October 1999 to September 2000.

GAGE.--Water-stage recorder. Elevation of gage is 1,900 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e.60	e.46	e.36	e.30	e.26	e.24	e.23	e.40	1.8	1.6	1.3	4.2
2	e.60	e.44	e.36	e.30	e.26	e.24	e.23	e.50	1.6	1.6	1.3	4.2
3	e.60	e.44	e.36	e.30	e.26	e.24	e.23	e.60	2.0	1.6	1.2	4.0
4	e.60	e.44	e.36	e.30	e.26	e.23	e.23	e.60	2.0	1.6	1.2	3.8
5	e.60	e.44	e.36	e.30	e.26	e.23	e.23	e.50	1.8	1.6	1.2	3.7
6	e.60	e.44	e.36	e.30	e.26	e.23	e.23	e.50	1.8	1.6	1.2	3.7
7	e.60	e.44	e.36	e.30	e.26	e.23	e.23	e.60	1.8	1.5	1.2	3.6
8	e.60	e.42	e.36	e.30	e.26	e.23	e.23	e.90	1.7	1.5	1.2	3.6
9	e.60	e.42	e.34	e.30	e.26	e.23	e.23	e.70	1.8	1.5	1.3	3.5
10	e.58	e.42	e.34	e.30	e.26	e.23	e.24	e.50	1.8	1.5	1.3	3.4
11	e.58	e.42	e.34	e.30	e.26	e.23	e.24	e.45	1.7	1.5	1.5	3.4
12	e.58	e.42	e.34	e.28	e.24	e.23	e.24	.40	1.7	1.5	2.3	3.3
13	e.58	e.42	e.34	e.28	e.24	e.23	e.24	.42	1.6	1.5	4.0	3.2
14	e.56	e.42	e.34	e.28	e.24	e.23	e.24	.37	1.6	1.5	3.7	3.1
15	e.56	e.40	e.34	e.28	e.24	e.23	e.24	.37	1.5	1.4	2.9	3.0
16	e.56	e.40	e.34	e.28	e.24	e.23	e.24	.39	1.5	1.4	2.7	2.9
17	e.56	e.40	e.34	e.28	e.24	e.23	e.24	.45	1.5	1.4	2.7	2.8
18	e.54	e.40	e.34	e.28	e.24	e.23	e.24	.61	1.6	1.4	3.2	2.8
19	e.54	e.40	e.34	e.28	e.24	e.23	e.24	.59	1.6	1.4	3.7	2.7
20	e.54	e.40	e.32	e.28	e.24	e.23	e.24	1.1	1.5	1.5	3.6	2.6
21	e.52	e.38	e.32	e.28	e.24	e.23	e.26	1.5	1.5	1.4	3.5	2.6
22	e.52	e.38	e.32	e.28	e.24	e.23	e.26	2.3	1.7	1.4	3.8	2.5
23	e.52	e.38	e.32	e.28	e.24	e.23	e.26	1.4	1.7	1.4	3.9	2.4
24	e.50	e.38	e.32	e.28	e.24	e.23	e.26	2.9	1.7	1.4	3.8	2.4
25	e.50	e.38	e.32	e.28	e.24	e.23	e.28	2.6	1.6	1.4	4.0	2.5
26	e.50	e.38	e.32	e.26	e.24	e.23	e.28	1.9	1.6	1.3	4.4	2.5
27	e.48	e.38	e.32	e.26	e.24	e.23	e.30	1.4	1.6	1.3	4.2	2.4
28	e.48	e.38	e.32	e.26	e.24	e.23	e.32	1.3	1.6	1.3	4.1	2.3
29	e.48	e.38	e.32	e.26	e.24	e.23	e.34	1.5	1.6	1.3	4.2	2.3
30	e.46	e.36	e.32	e.26	---	e.23	e.36	1.6	1.6	1.3	4.6	2.3
31	e.46	---	e.32	e.26	---	e.23	---	1.8	---	1.3	4.6	---
TOTAL	17.00	12.22	10.46	8.78	7.18	7.16	7.63	31.15	50.1	44.9	87.8	91.7
MEAN	.55	.41	.34	.28	.25	.23	.25	1.00	1.67	1.45	2.83	3.06
MAX	.60	.46	.36	.30	.26	.24	.36	2.9	2.0	1.6	4.6	4.2
MIN	.46	.36	.32	.26	.24	.23	.23	.37	1.5	1.3	1.2	2.3
MED	.56	.40	.34	.28	.24	.23	.24	.60	1.6	1.4	3.2	3.0
AC-FT	34	24	21	17	14	14	15	62	99	89	174	182
CFSM	.33	.25	.21	.17	.15	.14	.16	.61	1.02	.88	1.73	1.86
IN.	.39	.28	.24	.20	.16	.16	.17	.71	1.14	1.02	1.99	2.08

SUMMARY STATISTICS	FOR 2000 WATER YEAR	
ANNUAL TOTAL	376.08	
ANNUAL MEAN	1.03	
HIGHEST DAILY MEAN	4.6	Aug 30
LOWEST DAILY MEAN	a.23	Mar 4
ANNUAL SEVEN-DAY MINIMUM	.23	Mar 4
INSTANTANEOUS PEAK FLOW	5.0	Aug 30
INSTANTANEOUS PEAK STAGE	20.98	Aug 30
ANNUAL RUNOFF (AC-FT)	746	
ANNUAL RUNOFF (CFSM)	.63	
ANNUAL RUNOFF (INCHES)	8.53	
10 PERCENT EXCEEDS	2.7	
50 PERCENT EXCEEDS	.44	
90 PERCENT EXCEEDS	.23	

a From March 4 to April 9
e Estimated

15477770 SONORA CREEK NEAR BIG DELTA

LOCATION.--Lat 64°22′40″, long 144°48′41″, in SE¼ 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.

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

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

REVISIONS.--The maximum discharge for the water year 1998 has been revised to 34 ft^3/s, May 26, 1998, gage height, 29.18 ft.

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	e1.7	e1.4	e1.2	e.90	e.70	e.60	e.60	e4.9	e19	3.8	4.3	22
2	e1.6	e1.4	e1.1	e.90	e.70	e.60	e.60	e6.2	e16	3.7	4.3	24
3	e1.6	e1.4	e1.1	e.90	e.70	e.60	e.60	e8.0	e19	4.5	4.1	23
4	e1.8	e1.4	e1.1	e.90	e.70	e.60	e.60	e10	e17	4.4	4.2	21
5	e2.0	e1.4	e1.1	e.90	e.70	e.60	e.60	e8.0	e13	4.4	4.2	20
6	e1.9	e1.4	e1.1	e.90	e.70	e.60	e.60	e7.0	e11	4.2	4.3	20
7	e1.9	e1.4	e1.1	e.90	e.70	e.60	e.60	e10	e9.0	3.9	4.2	20
8	e1.8	e1.4	e1.1	e.90	e.70	e.60	e.60	e15	e7.6	3.8	4.3	20
9	e1.8	e1.4	e1.1	e.80	e.70	e.60	e.60	e13	e7.0	3.8	4.9	19
10	e1.8	e1.3	e1.1	e.80	e.70	e.60	e.60	e10	e7.2	5.1	4.9	19
11	e1.7	e1.3	e1.0	e.80	e.70	e.60	e.60	e7.8	e6.8	10	7.2	19
12	e1.7	e1.3	e1.0	e.80	e.70	e.60	e.60	e5.6	e5.6	7.4	23	19
13	e1.7	e1.3	e1.0	e.80	e.70	e.60	e.60	e7.4	e5.2	5.7	43	19
14	e1.7	e1.3	e1.0	e.80	e.70	e.60	e.60	e7.0	e4.8	5.0	31	18
15	e1.6	e1.3	e1.0	e.80	e.60	e.60	e.70	e6.2	e4.4	4.6	23	18
16	e1.6	e1.3	e1.0	e.80	e.60	e.60	e.70	e7.8	e4.8	4.3	18	18
17	e1.6	e1.3	e1.0	e.80	e.60	e.60	e.70	e10	e4.6	4.7	16	18
18	e1.6	e1.3	e1.0	e.80	e.60	e.60	e.70	e16	e4.8	5.7	18	18
19	e1.6	e1.3	e1.0	e.70	e.60	e.60	e.80	e18	e5.6	6.2	24	17
20	e1.5	e1.3	e1.0	e.70	e.60	e.60	e.80	e34	e5.0	7.2	20	17
21	e1.5	e1.3	e1.0	e.70	e.60	e.60	e.90	e36	e4.6	5.8	18	16
22	e1.5	e1.3	e1.0	e.70	e.60	e.60	e.90	e46	e7.0	5.3	20	17
23	e1.5	e1.3	e1.0	e.70	e.60	e.60	e1.0	e34	e7.6	5.7	20	17
24	e1.5	e1.3	e1.0	e.70	e.60	e.60	e1.1	e62	e5.6	5.9	19	16
25	e1.5	e1.2	e.90	e.70	e.60	e.60	e1.2	e48	e5.0	5.5	20	17
26	e1.5	e1.2	e.90	e.70	e.60	e.60	e1.4	e30	e4.6	5.2	24	19
27	e1.5	e1.2	e.90	e.70	e.60	e.60	e1.8	e20	e4.6	5.1	21	18
28	e1.5	e1.2	e.90	e.70	e.60	e.60	e2.3	e15	e4.6	5.2	19	17
29	e1.5	e1.2	e.90	e.70	e.60	e.60	e2.9	e16	e4.4	4.6	19	e15
30	e1.4	e1.2	e.90	e.70	---	e.60	e3.8	e18	4.2	4.8	24	e14
31	e1.4	---	e.90	e.70	---	e.60	---	e20	---	4.7	25	---
TOTAL	50.5	39.3	31.40	24.30	18.80	18.60	30.10	556.9	229.6	160.2	495.9	555
MEAN	1.63	1.31	1.01	.78	.65	.60	1.00	18.0	7.65	5.17	16.0	18.5
MAX	2.0	1.4	1.2	.90	.70	.60	3.8	62	19	10	43	24
MIN	1.4	1.2	.90	.70	.60	.60	.60	4.9	4.2	3.7	4.1	14
AC-FT	100	78	62	48	37	37	60	1100	455	318	984	1100
CFSM	.16	.12	.10	.07	.06	.06	.10	1.71	.73	.49	1.52	1.76
IN.	.18	.14	.11	.09	.07	.07	.11	1.97	.81	.57	1.76	1.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY) #

MEAN	2.12	1.45	1.03	.76	.62	.54	1.29	10.3	5.20	4.07	8.05	7.68
MAX	2.38	1.64	1.09	.80	.65	.60	1.94	18.0	7.65	5.17	16.0	18.5
(WY)	1999	1999	1999	1999	1999	2000	1999	2000	2000	2000	2000	2000
MIN	1.63	1.31	.98	.71	.56	.45	.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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000 #	
ANNUAL TOTAL	1043.80		2210.60			
ANNUAL MEAN	2.86		6.04		3.69	
HIGHEST ANNUAL MEAN					6.04	2000
LOWEST ANNUAL MEAN					2.07	1998
HIGHEST DAILY MEAN	24	May 15	62	May 24	62	May 24 2000
LOWEST DAILY MEAN	a.50	Mar 5	b.60	Feb 15	.40	Mar 7 1998
ANNUAL SEVEN-DAY MINIMUM	.50	Mar 5	.60	Feb 15	.40	Mar 7 1998
INSTANTANEOUS PEAK FLOW			e78	May 24	e78	May 24 2000
INSTANTANEOUS PEAK STAGE			c		c	
INSTANTANEOUS PEAK STAGE			de33.4	May 12	de33.4	May 12 2000
ANNUAL RUNOFF (AC-FT)	2070		4380		2670	
ANNUAL RUNOFF (CFSM)	.27		.58		.35	
ANNUAL RUNOFF (INCHES)	3.70		7.83		4.78	
10 PERCENT EXCEEDS	6.9		19		8.0	
50 PERCENT EXCEEDS	1.6		1.5		1.8	
90 PERCENT EXCEEDS	.60		.60		.60	

\# See Period of Record; partial years used in monthly statistics
a From Mar. 5 to 19
b From Feb. 15 to Apr 14
c Not determined
d Backwater from snow and ice, maximum observed.
e Estimated

15477790 CENTRAL CREEK NEAR BIG DELTA

LOCATION.--Lat 64°22′37″, long 144°56′35″, in SE¼ 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e19	e8.0	e3.7	e1.3	e.30	e.00	e.00	52	470	26	35	281
2	e20	e7.8	e3.5	e1.3	e.30	e.00	e.00	61	429	24	32	275
3	e21	e7.6	e3.4	e1.2	e.30	e.00	e.00	88	490	29	29	270
4	e22	e7.4	e3.2	e1.2	e.20	e.00	e.00	99	523	43	28	222
5	e22	e7.2	e3.1	e1.1	e.20	e.00	e.00	79	415	42	28	198
6	e22	e7.2	e3.0	e1.1	e.20	e.00	e.00	70	358	42	28	180
7	e21	e7.0	e2.9	e1.0	e.20	e.00	e.00	96	380	38	29	179
8	e20	e7.0	e2.8	e1.0	e.20	e.00	e.00	178	255	32	29	186
9	e18	e6.8	e2.7	e.90	e.20	e.00	e.00	163	188	28	31	180
10	e17	e6.8	e2.6	e.90	e.10	e.00	e.00	117	169	31	33	169
11	e16	e6.6	e2.5	e.80	e.10	e.00	e.00	81	140	304	39	181
12	e15	e6.6	e2.4	e.80	e.10	e.00	e.00	60	112	133	266	198
13	e14	e6.6	e2.3	e.80	e.10	e.00	e.00	64	110	97	918	183
14	e13	e6.4	e2.2	e.70	e.10	e.00	e.00	65	92	70	866	168
15	e12	e6.4	e2.1	e.70	e.10	e.00	e.00	59	76	54	540	159
16	e12	e6.2	e2.0	e.70	e.10	e.00	e.00	65	69	44	276	153
17	e11	e6.0	e2.0	e.60	e.10	e.00	e.00	104	60	39	194	147
18	e11	e5.8	e1.9	e.60	e.00	e.00	e.00	193	56	56	189	142
19	e11	e5.8	e1.9	e.60	e.00	e.00	e.00	261	128	50	291	135
20	e11	e5.6	e1.8	e.60	e.00	e.00	e.50	480	83	66	247	130
21	e10	e5.4	e1.8	e.50	e.00	e.00	e1.5	495	59	53	209	126
22	e9.8	e5.2	e1.7	e.50	e.00	e.00	e2.5	532	65	52	255	131
23	e9.8	e5.0	e1.7	e.50	e.00	e.00	e6.0	599	83	50	305	137
24	e9.6	e4.8	e1.6	e.50	e.00	e.00	e9.0	855	62	52	254	132
25	e9.4	e4.6	e1.6	e.50	e.00	e.00	e11	701	49	49	271	130
26	e9.2	e4.4	e1.6	e.50	e.00	e.00	e13	471	41	44	462	168
27	e9.0	e4.2	e1.5	e.40	e.00	e.00	e15	281	37	39	304	159
28	e8.8	e4.1	e1.5	e.40	e.00	e.00	e19	200	34	57	223	143
29	e8.6	e3.9	e1.5	e.40	e.00	e.00	e27	232	31	59	188	e120
30	e8.4	e3.8	e1.4	e.40	---	e.00	e40	305	29	46	306	e110
31	e8.2	---	e1.4	e.30	---	e.00	---	358	---	41	443	---
TOTAL	428.8	180.2	69.3	22.80	2.90	0.00	144.50	7464	5093	1790	7348	5092
MEAN	13.8	6.01	2.24	.74	.10	.000	4.82	241	170	57.7	237	170
MAX	22	8.0	3.7	1.3	.30	.00	40	855	523	304	918	281
MIN	8.2	3.8	1.4	.30	.00	.00	.00	52	29	24	28	110
AC-FT	851	357	137	45	5.8	.00	287	14800	10100	3550	14570	10100
CFSM	.12	.05	.02	.01	.00	.00	.04	2.09	1.48	.50	2.06	1.48
IN.	.14	.06	.02	.01	.00	.00	.05	2.41	1.65	.58	2.38	1.65

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY) #

MEAN	16.6	5.19	1.65	.63	.32	.28	9.35	150	87.8	54.8	118	76.1
MAX	19.0	6.01	2.24	1.14	.88	.83	12.1	241	170	58.7	237	170
(WY)	1998	2000	2000	1998	1998	1998	1999	2000	2000	1998	2000	2000
MIN	13.8	4.71	.75	.026	.000	.000	4.82	81.6	26.3	47.8	70.1	37.2
(WY)	2000	1999	1999	1999	1999	1999	2000	1998	1998	1999	1998	1999

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000 #	
ANNUAL TOTAL	11864.60		27635.50			
ANNUAL MEAN	32.5		75.5		45.0	
HIGHEST ANNUAL MEAN					75.5	2000
LOWEST ANNUAL MEAN					26.8	1998
HIGHEST DAILY MEAN	361	May 15	918	Aug 13	918	Aug 13 2000
LOWEST DAILY MEAN	a.00	Jan 8	b.00	Feb 18	c.00	Jan 8 1999
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 8	.00	Feb 18	.00	Jan 8 1999
INSTANTANEOUS PEAK FLOW			d1340	Aug 13	d1340	Aug 13 2000
INSTANTANEOUS PEAK STAGE			45.43	Aug 13	45.43	Aug 13 2000
ANNUAL RUNOFF (AC-FT)	23530		54820		32590	
ANNUAL RUNOFF (CFSM)	.28		.66		.39	
ANNUAL RUNOFF (INCHES)	3.84		8.94		5.32	
10 PERCENT EXCEEDS	90		254		119	
50 PERCENT EXCEEDS	11		9.5		15	
90 PERCENT EXCEEDS	.00		.00		.00	

\# See Period of Record; partial years used in monthly statistics
a From Jan. 8 to Apr. 17
b From Feb. 18 to Apr. 19
c No flow during winter months most years
d From rating extended above 395 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, October 1989 to September 1993, and annual maximums, water years 1984-85. October 1994 to current year. 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 fair except for periods of estimated daily discharges, which are poor. Large fluctuations from ice melt and alternate damming and storage release during melt season. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e16	e7.6	e5.3	e4.3	e3.7	e3.3	e2.9	e3.2	e17	318	196	26
2	e16	e7.5	e5.3	e4.3	e3.6	e3.2	e2.9	e3.6	e22	269	204	22
3	e15	e7.4	e5.2	e4.2	e3.6	e3.2	e2.9	e3.9	e33	253	284	16
4	e14	e7.2	e5.2	e4.2	e3.6	e3.2	e2.9	e3.8	55	276	319	14
5	e14	e7.1	e5.1	e4.2	e3.6	e3.2	e2.9	e4.1	84	276	242	12
6	e14	e7.0	e5.1	e4.2	e3.6	e3.2	e2.9	e4.4	125	259	232	12
7	e14	e6.9	e5.0	e4.1	e3.6	e3.2	e2.9	e4.7	106	303	218	12
8	e13	e6.8	e5.0	e4.1	e3.6	e3.2	e2.9	e5.0	117	331	222	11
9	e12	e6.7	e5.0	e4.1	e3.6	e3.2	e2.9	e4.8	146	308	203	11
10	e12	e6.7	e4.9	e4.1	e3.5	e3.2	e2.9	e4.7	153	366	166	9.2
11	e12	e6.6	e4.9	e4.0	e3.5	e3.1	e2.9	e4.9	160	417	156	8.7
12	e11	e6.5	e4.9	e4.0	e3.5	e3.1	e2.8	e4.7	174	469	178	9.1
13	e11	e6.4	e4.8	e4.0	e3.5	e3.1	e2.8	e4.7	174	424	223	8.3
14	e11	e6.3	e4.8	e4.0	e3.5	e3.1	e2.8	e4.5	165	439	217	8.6
15	e11	e6.3	e4.8	e4.0	e3.5	e3.1	e2.8	e4.8	158	418	140	8.6
16	e10	e6.2	e4.7	e3.9	e3.4	e3.1	e2.8	e5.6	138	416	131	11
17	e10	e6.1	e4.7	e3.9	e3.4	e3.1	e2.8	e6.6	143	570	124	13
18	e9.9	e6.0	e4.7	e3.9	e3.4	e3.0	e2.8	e7.6	140	479	141	11
19	e9.7	e6.0	e4.6	e3.9	e3.4	e3.0	e2.8	e8.6	122	381	98	11
20	e9.4	e5.9	e4.6	e3.9	e3.4	e3.0	e2.8	e8.2	97	318	80	12
21	e9.2	e5.9	e4.6	e3.8	e3.4	e3.0	e2.8	e7.8	83	253	74	15
22	e9.0	e5.8	e4.5	e3.8	e3.3	e3.0	e2.8	e8.6	96	287	41	153
23	e8.9	e5.7	e4.5	e3.8	e3.3	e3.0	e2.8	e9.6	144	300	29	93
24	e8.7	e5.7	e4.5	e3.8	e3.3	e3.0	e2.8	e9.2	171	286	30	86
25	e8.5	e5.6	e4.5	e3.8	e3.3	e3.0	e2.8	e8.8	178	291	23	99
26	e8.4	e5.6	e4.4	e3.8	e3.3	e3.0	e2.8	e8.4	218	276	23	71
27	e8.2	e5.5	e4.4	e3.7	e3.3	e3.0	e2.8	e8.0	268	227	20	43
28	e8.1	e5.5	e4.4	e3.7	e3.3	e3.0	e2.8	e8.5	302	223	24	e33
29	e8.0	e5.4	e4.3	e3.7	e3.3	e3.0	e2.9	e9.8	282	202	35	e28
30	e7.9	e5.4	e4.3	e3.7	---	e3.0	e3.0	e12	337	177	42	e25
31	e7.8	---	e4.3	e3.7	---	e2.9	---	e14	---	179	38	---
TOTAL	337.7	189.3	147.3	122.6	100.3	95.7	85.4	207.1	4408	9991	4153	892.5
MEAN	10.9	6.31	4.75	3.95	3.46	3.09	2.85	6.68	147	322	134	29.8
MAX	16	7.6	5.3	4.3	3.7	3.3	3.0	14	337	570	319	153
MIN	7.8	5.4	4.3	3.7	3.3	2.9	2.8	3.2	17	177	20	8.3
AC-FT	670	375	292	243	199	190	169	411	8740	19820	8240	1770
CFSM	.89	.52	.39	.32	.28	.25	.23	.55	12.0	26.4	11.0	2.44
IN.	1.03	.58	.45	.37	.31	.29	.26	.63	13.44	30.46	12.66	2.72

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2000, BY WATER YEAR (WY)#

MEAN	10.7	5.57	4.01	3.19	2.69	2.36	2.25	16.3	142	304	253	62.1
MAX	17.4	9.57	6.87	5.32	4.50	4.00	4.00	48.2	247	460	411	129
(WY)	1996	1996	1996	1996	1972	1971	1971	1995	1969	1976	1972	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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1967 - 2000#	
ANNUAL TOTAL	25278.1		20729.9			
ANNUAL MEAN	69.3		56.6		68.0	
HIGHEST ANNUAL MEAN					91.6	1976
LOWEST ANNUAL MEAN					43.0	1973
HIGHEST DAILY MEAN	577	Aug 13	570	Jul 17	1330	Aug 13 1997
LOWEST DAILY MEAN	a1.5	Feb 17	b2.8	Apr 12	c1.0	Jan 16 1967
ANNUAL SEVEN-DAY MINIMUM	1.5	Feb 17	2.8	Apr 12	1.0	Jan 16 1967
INSTANTANEOUS PEAK FLOW			771	Jul 17	2320	Aug 13 1967
INSTANTANEOUS PEAK STAGE			9.44	Jul 17	11.51	Aug 13 1967
INSTANTANEOUS PEAK STAGE					d14.70	Jun 1 1967
ANNUAL RUNOFF (AC-FT)	50140		41120		49250	
ANNUAL RUNOFF (CFSM)	5.68		4.64		5.57	
ANNUAL RUNOFF (INCHES)	77.08		63.21		75.71	
10 PERCENT EXCEEDS	305		223		251	
50 PERCENT EXCEEDS	5.9		6.2		6.0	
90 PERCENT EXCEEDS	1.5		3.0		2.0	

\# See Period of Record
a From Feb. 17 to Apr. 10
b From Apr. 12 to Apr. 28
c For many days in the winter and spring during water years 1967, 1969, 1978, and 1991.
d Occurred in early June as a result of flow over ice.
e Estimated.

15484000 SALCHA RIVER NEAR SALCHAKET

LOCATION.--Lat 64°28′22″, long 146°55′26″, in NE¼ 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.

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	1060	e610	e410	e240	e190	e160	e160	e1100	5550	1430	1650	7080
2	1100	e620	e400	e240	e190	e160	e170	e1400	6650	1360	1560	6280
3	1150	e630	e400	e240	e190	e160	e170	e1800	6920	1310	1470	6260
4	1150	e630	e390	e230	e180	e160	e170	1960	7590	1300	1400	5870
5	1110	e640	e380	e230	e180	e160	e170	1990	7490	1570	1350	5350
6	1080	e640	e380	e230	e180	e160	e170	1810	7140	1480	1350	4920
7	1060	e640	e370	e230	e180	e160	e180	1670	7220	1410	1350	4610
8	1030	e640	e360	e220	e180	e160	e180	1880	7560	1390	1330	4480
9	1010	e630	e360	e220	e180	e160	e180	2810	6620	1310	1320	4480
10	983	e630	e350	e220	e180	e160	e180	3460	6850	1320	1340	4440
11	936	e620	e340	e220	e180	e160	e180	2900	7020	2600	1400	4290
12	841	e610	e340	e220	e180	e160	e190	2290	5700	3380	2080	4390
13	782	e600	e330	e210	e180	e160	e190	1830	4970	3960	6340	4480
14	e820	e580	e320	e210	e170	e150	e190	1700	5000	3900	17000	4290
15	e850	e560	e320	e210	e170	e150	e200	1570	6630	3020	25400	4070
16	e840	e560	e310	e210	e170	e150	e200	1470	4890	2530	15800	3940
17	e800	e540	e310	e210	e170	e150	e200	1510	3780	2230	9210	3830
18	e760	e540	e300	e210	e170	e150	e210	2210	3070	2170	7190	3780
19	e720	e520	e300	e200	e170	e150	e210	3690	2880	2540	7050	3630
20	e700	e520	e290	e200	e170	e150	e220	4650	4550	2490	7930	3450
21	e680	e500	e290	e200	e170	e150	e230	7370	3630	2280	6800	3310
22	e650	e490	e280	e200	e170	e150	e240	7740	2870	2130	6000	3420
23	e630	e480	e280	e200	e170	e160	e250	7300	2510	2060	6650	5690
24	e610	e470	e270	e200	e170	e160	e270	8000	2400	2050	7080	6580
25	e600	e460	e270	e200	e170	e160	e300	12900	2220	2190	6360	5670
26	e590	e450	e260	e190	e170	e160	e360	10000	2010	2220	6570	5230
27	e580	e440	e260	e190	e170	e160	e440	6400	1830	2080	7870	5390
28	e580	e440	e260	e190	e170	e160	e540	4750	1710	1940	6800	4910
29	e580	e430	e250	e190	e160	e160	e700	3740	1600	1890	5800	4360
30	e590	e420	e250	e190	---	e160	e850	3560	1500	1860	5390	3970
31	e600	---	e250	e190	---	e160	---	4140	---	1750	6720	---
TOTAL	25472	16540	9880	6540	5080	4870	7900	119600	140360	65150	185560	142450
MEAN	822	551	319	211	175	157	263	3858	4679	2102	5986	4748
MAX	1150	640	410	240	190	160	850	12900	7590	3960	25400	7080
MIN	580	420	250	190	160	150	160	1100	1500	1300	1320	3310
AC-FT	50520	32810	19600	12970	10080	9660	15670	237200	278400	129200	368100	282500
CFSM	.38	.25	.15	.10	.08	.07	.12	1.78	2.16	.97	2.76	2.19
IN.	.44	.28	.17	.11	.09	.08	.14	2.05	2.41	1.12	3.18	2.44

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2000, BY WATER YEAR (WY) #

MEAN	1068	499	351	256	207	188	402	4269	3848	2633	3021	2451
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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1949 - 2000 #	
ANNUAL TOTAL	295596		729402			
ANNUAL MEAN	810		1993		1608	
HIGHEST ANNUAL MEAN					2957	1967
LOWEST ANNUAL MEAN					796	1999
HIGHEST DAILY MEAN	4800	May 16	25400	Aug 15	94100	Aug 14 1967
LOWEST DAILY MEAN	a62	Mar 15	b150	Mar 14	c60	Mar 1 1953
ANNUAL SEVEN-DAY MINIMUM	62	Mar 14	150	Mar 14	60	Mar 1 1953
INSTANTANEOUS PEAK FLOW			27800	Aug 15	97000	Aug 14 1967
INSTANTANEOUS PEAK STAGE			16.81	Aug 15	21.78	Aug 14 1967
INSTANTANEOUS LOW FLOW					60	Mar 1 1953
ANNUAL RUNOFF (AC-FT)	586300		1447000		1165000	
ANNUAL RUNOFF (CFSM)	.37		.92		.74	
ANNUAL RUNOFF (INCHES)	5.07		12.50		10.07	
10 PERCENT EXCEEDS	1670		6300		3940	
50 PERCENT EXCEEDS	630		630		640	
90 PERCENT EXCEEDS	73		170		170	

See Period of Record
a From Mar. 15-20
b From Mar. 14-22
c Monthly mean published for Mar. 1953
e Estimated

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 ft^3/s, contained in reports of the Corps of Engineers.

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	15400	e8300	e6600	e5600	e5300	e5250	e5200	e18000	23700	52900	40300	42100
2	15000	e8400	e6500	e5600	e5300	e5250	e5200	22100	25800	51800	39800	41600
3	14900	e8500	e6500	e5600	e5300	e5250	e5200	18800	27200	52200	40300	40600
4	14800	e8600	e6400	e5600	e5300	e5250	e5200	17900	28400	54200	42000	39800
5	14600	e8600	e6400	e5600	e5300	e5250	e5200	16400	30000	54600	45500	38700
6	14400	e8500	e6300	e5500	e5300	e5250	e5200	16000	31000	55500	47200	37500
7	14200	e8400	e6300	e5500	e5300	e5200	e5200	16700	32300	54300	46000	36300
8	14000	e8300	e6300	e5500	e5300	e5200	e5200	16700	35600	53800	44000	35700
9	13900	e8200	e6200	e5500	e5300	e5200	e5200	18800	38100	54900	42600	35300
10	13600	e8000	e6200	e5500	e5300	e5200	e5200	20500	37600	57200	42100	34200
11	13200	e7900	e6200	e5500	e5300	e5200	e5250	19500	40100	56600	41200	33500
12	12800	e7800	e6100	e5500	e5300	e5200	e5250	17700	42300	64800	41600	32800
13	12500	e7700	e6100	e5500	e5250	e5200	e5250	16400	43700	66600	44500	32200
14	e12000	e7600	e6100	e5400	e5250	e5200	e5300	15700	45900	65200	52800	31900
15	e11600	e7500	e6100	e5400	e5250	e5200	e5300	15100	49400	60300	67100	31200
16	e11200	e7500	e6100	e5400	e5250	e5200	e5350	14500	48700	59500	70600	30200
17	e11000	e7400	e6000	e5400	e5250	e5200	e5400	14100	47500	62000	60100	29300
18	e10600	e7300	e6000	e5400	e5250	e5200	e5500	14400	45200	63300	53200	28900
19	e10200	e7300	e6000	e5400	e5250	e5200	e5600	16800	44200	62800	51700	28200
20	e10000	e7200	e6000	e5400	e5250	e5200	e5700	20300	44200	59300	51400	27300
21	e9600	e7200	e5900	e5400	e5250	e5200	e5800	22700	45200	56200	48800	26800
22	e9300	e7100	e5900	e5300	e5250	e5200	e6000	25800	44200	54000	45500	27300
23	e9000	e7000	e5900	e5300	e5250	e5200	e6200	26400	44600	52900	45000	30700
24	e8700	e7000	e5900	e5300	e5250	e5200	e6600	27100	44100	51600	46600	35700
25	e8500	e6900	e5800	e5300	e5250	e5200	e7000	30800	45300	51000	46000	35700
26	e8300	e6800	e5800	e5300	e5250	e5200	e7800	35200	46900	49600	45400	34200
27	e8000	e6800	e5800	e5300	e5250	e5200	e9000	31500	48100	47500	45900	34500
28	e8000	e6700	e5700	e5300	e5250	e5200	e10000	26900	49800	44500	45100	35100
29	e8000	e6700	e5700	e5300	e5250	e5200	e12000	23800	52100	42400	41600	35100
30	e8100	e6600	e5700	e5300	---	e5200	e15000	22000	53200	41500	40000	34500
31	e8200	---	e5700	e5300	---	e5200	---	22500	---	40800	40300	---
TOTAL	353600	227800	188200	168200	152850	161500	191300	641100	1234400	1693800	1454200	1016900
MEAN	11410	7593	6071	5426	5271	5210	6377	20680	41150	54640	46910	33900
MAX	15400	8600	6600	5600	5300	5250	15000	35200	53200	66600	70600	42100
MIN	8000	6600	5700	5300	5250	5200	5200	14100	23700	40800	39800	26800
AC-FT	701400	451800	373300	333600	303200	320300	379400	1272000	2448000	3360000	2884000	2017000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2000, BY WATER YEAR (WY) #

MEAN	13200	7604	6124	5570	5369	5316	7439	22360	36240	52660	48530	27220
MAX	18540	10370	8090	7135	6700	6761	12700	36290	51350	66090	70080	44880
(WY)	1984	1986	1986	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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1973 - 2000#	
ANNUAL TOTAL	6591700		7483850			
ANNUAL MEAN	18060		20450		19980	
HIGHEST ANNUAL MEAN					22690	1990
LOWEST ANNUAL MEAN					16080	1996
HIGHEST DAILY MEAN	62100	Aug 14	70600	Aug 16	92400	Jul 22 1986
LOWEST DAILY MEAN	a4600	Feb 16	b5200	Mar 7	c3100	Feb 14 1974
ANNUAL SEVEN-DAY MINIMUM	4600	Feb 16	5200	Mar 7	3100	Feb 14 1974
INSTANTANEOUS PEAK FLOW			73400	Aug 16	96400	Jul 22 1986
INSTANTANEOUS PEAK STAGE			24.78	Aug 16	26.25	Aug 14 1997
ANNUAL RUNOFF (AC-FT)	13070000		14840000		14470000	
10 PERCENT EXCEEDS	47100		49500		50000	
50 PERCENT EXCEEDS	9600		8550		10000	
90 PERCENT EXCEEDS	4800		5250		5000	

\# See Period of Record, partial years used in monthly statistics
a From Feb. 16 to Mar. 17
b From Mar. 7 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 NE¼ 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 fair 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	577	e210	e180	e140	e110	e96	e94	e500	2530	509	567	2130
2	589	e210	e180	e140	e110	e96	e94	e800	2420	481	536	2140
3	584	e210	e180	e130	e110	e96	e94	e1300	2400	473	514	2260
4	553	e210	e180	e130	e110	e94	e96	e1500	2390	486	496	2100
5	521	e210	e170	e130	e110	e94	e96	e1200	2230	485	502	1940
6	502	e220	e170	e130	e100	e94	e96	953	2040	478	513	1830
7	487	e220	e170	e130	e100	e94	e96	1230	1930	460	523	1810
8	469	e220	e170	e130	e100	e94	e96	2330	1810	436	519	1810
9	452	e220	e170	e130	e100	e94	e98	2720	1640	420	506	1910
10	437	e220	e170	e130	e100	e94	e98	1830	2210	1080	508	1910
11	406	e220	e160	e130	e100	e94	e98	1270	1790	1780	560	1900
12	351	e220	e160	e130	e100	e94	e98	903	1450	2150	736	2110
13	375	e220	e160	e130	e100	e94	e100	872	1300	2180	2330	2080
14	386	e220	e160	e120	e100	e94	e100	767	2050	1430	9530	1940
15	362	e220	e160	e120	e100	e94	e100	669	1810	1100	6960	1890
16	e340	e210	e160	e120	e100	e94	e100	664	1380	925	4200	1850
17	e310	e210	e160	e120	e100	e92	e100	1150	1120	869	3150	1750
18	e290	e210	e150	e120	e98	e92	e100	2100	966	966	2840	1650
19	e260	e210	e150	e120	e98	e92	e100	2930	1010	1020	3660	1570
20	e240	e200	e150	e120	e98	e92	e110	3120	1000	897	3490	1490
21	e230	e200	e150	e120	e98	e92	e110	4440	870	815	2860	1450
22	e220	e200	e150	e120	e98	e92	e110	3480	790	774	2640	2390
23	e210	e200	e150	e120	e98	e92	e110	3830	780	744	3260	4590
24	e210	e200	e150	e110	e98	e92	e120	4010	739	766	3190	3740
25	e200	e190	e140	e110	e96	e92	e130	5530	669	782	2770	2990
26	e200	e190	e140	e110	e96	e92	e140	3100	613	759	3020	2770
27	e200	e190	e140	e110	e96	e94	e160	2030	574	713	2880	2570
28	e200	e190	e140	e110	e96	e94	e200	1550	544	683	2520	2300
29	e200	e190	e140	e110	e96	e94	e260	1440	527	655	2230	2080
30	e200	e180	e140	e110	---	e94	e360	1640	532	615	2120	1930
31	e210	---	e140	e110	---	e94	---	1860	---	594	2210	---
TOTAL	10771	6220	4890	3790	2916	2900	3664	61718	42114	26525	72340	64880
MEAN	347	207	158	122	101	93.5	122	1991	1404	856	2334	2163
MAX	589	220	180	140	110	96	360	5530	2530	2180	9530	4590
MIN	200	180	140	110	96	92	94	500	527	420	496	1450
AC-FT	21360	12340	9700	7520	5780	5750	7270	122400	83530	52610	143500	128700
CFSM	.37	.22	.17	.13	.11	.10	.13	2.12	1.50	.91	2.49	2.31
IN.	.43	.25	.19	.15	.12	.12	.15	2.45	1.67	1.05	2.87	2.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2000, BY WATER YEAR (WY)

MEAN	558	270	185	131	105	92.6	227	1869	1381	1023	1260	1144
MAX	1656	617	369	242	246	171	578	4210	4038	2505	3207	2702
(WY)	1987	1987	1994	1994	1994	1991	1989	1971	1992	1984	1969	1990
MIN	260	120	85.5	38.1	20.2	21.9	68.3	625	323	380	437	455
(WY)	1969	1969	1977	1970	1970	1970	1982	1998	1969	1976	1976	1976

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1968 - 2000	
ANNUAL TOTAL	147765		302728			
ANNUAL MEAN	405		827		691	
HIGHEST ANNUAL MEAN					1080	1971
LOWEST ANNUAL MEAN					398	1997
HIGHEST DAILY MEAN	2960	May 15	9530	Aug 14	17700	Jun 3 1992
LOWEST DAILY MEAN	a42	Mar 12	b92	Mar 17	c20	Feb 6 1970
ANNUAL SEVEN-DAY MINIMUM	43	Mar 8	92	Mar 17	20	Feb 6 1970
INSTANTANEOUS PEAK FLOW			11200	Aug 14	20000	Jun 3 1992
INSTANTANEOUS PEAK STAGE			21.34	Aug 14	d22.04	Jun 3 1992
ANNUAL RUNOFF (AC-FT)	293100		600500		500300	
ANNUAL RUNOFF (CFSM)	.43		.88		.74	
ANNUAL RUNOFF (INCHES)	5.87		12.02		10.01	
10 PERCENT EXCEEDS	825		2310		1620	
50 PERCENT EXCEEDS	220		220		320	
90 PERCENT EXCEEDS	50		96		80	

a From Mar. 12 Mar. 14
b From Mar. 17 to Mar. 26
c From Feb. 6 to Mar. 12, 1970
d At site and datum then in use
e Estimated

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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	203	e78	e58	e39	e28	e25	e25	e340	541	199	193	662
2	193	e79	e57	e38	e28	e25	e25	e540	549	190	187	716
3	192	e80	e56	e38	e28	e25	e25	e600	533	191	182	787
4	184	e82	e55	e38	e28	e25	e25	e640	529	201	178	713
5	174	e84	e54	e37	e27	e25	e25	e560	509	192	187	656
6	166	e85	e53	e37	e27	e25	e26	443	478	187	195	620
7	161	e85	e52	e36	e27	e25	e26	427	448	179	194	605
8	155	e86	e52	e36	e27	e25	e26	504	434	171	188	595
9	151	e85	e52	e35	e27	e25	e26	557	404	169	184	596
10	148	e85	e51	e35	e27	e25	e27	518	397	266	183	584
11	139	84	e51	e34	e27	e25	e27	432	382	639	199	577
12	e130	e84	e50	e34	e27	e25	e27	360	358	625	232	623
13	e120	e84	e49	e33	e26	e25	e28	364	354	559	384	681
14	e110	e83	e48	e33	e26	e25	e28	359	428	435	1340	672
15	e100	e82	e47	e33	e26	e25	e29	324	417	366	1390	645
16	e95	e80	e47	e32	e26	24	e30	309	404	318	958	622
17	e91	e78	e46	e32	e26	e24	e31	331	368	290	776	591
18	e87	e76	e46	e31	e26	e24	e32	417	326	278	730	561
19	e83	e74	e45	e31	e26	e24	e33	525	312	272	899	536
20	e80	e72	e44	e31	e26	e24	e34	588	308	260	858	516
21	e79	e70	e44	e30	e26	e24	e35	1200	279	248	749	499
22	e78	e68	e43	e30	e26	e24	e37	1230	265	238	685	558
23	e77	e66	e43	e30	e25	e24	e39	951	272	232	700	757
24	e76	e65	e42	e29	e25	e24	e42	833	265	231	749	757
25	e75	e64	e42	e29	e25	e24	e44	1430	243	230	704	681
26	e75	e63	e42	e29	e25	e24	e48	1230	226	229	737	656
27	e75	e62	e41	e29	e25	e24	e54	775	213	224	727	633
28	e75	e61	e41	e28	e25	e24	e80	601	206	224	664	597
29	e76	e60	e40	e28	e25	e24	e130	518	200	217	616	555
30	e76	e59	e40	e28	---	e25	e200	480	204	207	610	539
31	e77	---	e39	e28	---	e25	---	472	---	200	686	---
TOTAL	3601	2264	1470	1011	763	761	1264	18858	10852	8467	17264	18790
MEAN	116	75.5	47.4	32.6	26.3	24.5	42.1	608	362	273	557	626
MAX	203	86	58	39	28	25	200	1430	549	639	1390	787
MIN	75	59	39	28	25	24	25	309	200	169	178	499
AC-FT	7140	4490	2920	2010	1510	1510	2510	37400	21520	16790	34240	37270
CFSM	.31	.20	.13	.09	.07	.07	.11	1.64	.97	.73	1.50	1.68
IN.	.36	.23	.15	.10	.08	.08	.13	1.89	1.09	.85	1.73	1.88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2000, BY WATER YEAR (WY)#

MEAN	191	103	69.6	46.3	34.2	30.0	91.2	560	347	291	380	319
MAX	490	264	176	112	74.6	72.0	270	1217	932	665	2147	686
(WY)	1987	1994	1986	1987	1991	1993	1993	1991	1992	1981	1967	1985
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1966 - 2000#	
ANNUAL TOTAL	41018		85365			
ANNUAL MEAN	112		233		207	
HIGHEST ANNUAL MEAN					414	1967
LOWEST ANNUAL MEAN					103	1997
HIGHEST DAILY MEAN	574	May 15	1430	May 25	12000	Aug 13 1967
LOWEST DAILY MEAN	a18	Mar 6	b24	Mar 16	c.00	Mar 11 1967
ANNUAL SEVEN-DAY MINIMUM	18	Mar 6	24	Mar 16	.00	Mar 11 1967
INSTANTANEOUS PEAK FLOW			1720	May 25	d17000	Aug 13 1967
INSTANTANEOUS PEAK STAGE			21.67	May 25	31.95	Aug 13 1967
ANNUAL RUNOFF (AC-FT)	81360		169300		150000	
ANNUAL RUNOFF (CFSM)	.30		.63		.56	
ANNUAL RUNOFF (INCHES)	4.10		8.54		7.56	
10 PERCENT EXCEEDS	222		639		472	
50 PERCENT EXCEEDS	84		83		120	
90 PERCENT EXCEEDS	20		25		24	

\# See Period of Record; partial years used in monthly statistics
a From Mar. 6-14
b Mar. 16-29
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 NW¼ 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 fair. Regulation during high-flow periods began July 9, 1981 at Moose Creek Dam 31.8 mi upstream. Flows on August 16 to 18 were 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1390	e520	e420	e285	e240	e260	e270	1840	3490	1420	1490	4420
2	1320	e535	e410	e280	e240	e260	e275	2520	3970	1380	1440	4360
3	1300	e535	e410	e280	e240	e250	e280	3050	4020	1350	1410	4450
4	1270	e535	e400	e280	e240	e250	e280	3200	3960	1330	1370	4490
5	1240	e535	e400	e280	e240	e250	e285	3320	3930	1320	1340	4230
6	1210	e540	e390	e275	e245	e240	e286	2810	3810	1300	1330	3980
7	1170	e540	e390	e275	e245	e240	e285	2360	3630	1280	1330	3790
8	1140	e540	e380	e275	e250	e240	e285	2360	3460	1270	1320	3650
9	1100	e540	e380	e270	e250	e240	e285	3070	3310	1240	1320	3580
10	1070	e560	e370	e270	e255	e240	e290	3580	3100	1250	1310	3580
11	1030	e560	e370	e270	e255	e230	e290	3170	3280	1560	1320	3590
12	964	e560	e360	e265	e255	e230	e290	2610	3150	2620	1390	3590
13	933	e560	e360	e265	e260	e230	e295	2220	2880	3000	1630	3800
14	901	e540	e350	e265	e260	e230	e303	2080	2720	3380	3470	3900
15	837	e530	e350	e260	e260	e230	e305	1960	3040	2930	7300	3760
16	756	e520	e340	e260	e260	e230	e310	1810	3150	2510	8620	3640
17	630	e510	e330	e260	e265	e230	e315	1710	2850	2230	8200	3560
18	e600	e500	e320	e255	e265	e240	e320	1870	2560	2050	6330	3430
19	e580	e490	e310	e255	e265	e240	e325	2510	2310	2020	5620	3310
20	e560	e480	e300	e250	e265	e240	e330	3320	2200	2120	6120	3190
21	e540	e470	e300	e250	e265	e250	e335	4180	2150	2030	6060	3090
22	e530	e460	e300	e245	e270	e250	e345	6670	2030	1930	5270	3040
23	e520	e450	e300	e245	e270	e250	e360	6220	1920	1850	4780	3550
24	e510	e450	e295	e240	e270	e250	e380	5740	1860	1800	4990	5350
25	e500	e440	e295	e240	e270	e250	e400	6270	1810	1800	5160	5480
26	e495	e440	e295	e235	e270	e260	e450	8380	1720	1800	4850	4930
27	e495	e440	e290	e235	e265	e260	e500	7370	1630	1760	5020	4630
28	e500	e430	e290	e235	e265	e260	e700	4940	1550	e1700	5020	4440
29	e500	e430	e290	e235	e265	e260	e900	3930	1510	e1650	4590	4150
30	e500	e430	e285	e235	---	e270	e1200	3500	1440	e1600	4270	3870
31	e510	---	e285	e240	---	e270	---	3430	---	1550	4160	---
TOTAL	25601	15070	10565	8010	7465	7630	11474	112000	82440	57030	117830	118830
MEAN	826	502	341	258	257	246	382	3613	2748	1840	3801	3961
MAX	1390	560	420	285	270	270	1200	8380	4020	3380	8620	5480
MIN	495	430	285	235	240	230	270	1710	1440	1240	1310	3040
MED	756	520	340	260	260	250	308	3170	2860	1760	4270	3800
AC-FT	50780	29890	20960	15890	14810	15130	22760	222200	163500	113100	233700	235700
CFSM	.41	.25	.17	.13	.13	.12	.19	1.81	1.38	.92	1.91	1.99
IN.	.48	.28	.20	.15	.14	.14	.21	2.09	1.54	1.06	2.20	2.22

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2000, BY WATER YEAR (WY) #

MEAN	1181	588	444	341	280	259	469	3674	2585	2037	2448	2166
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 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1948 - 2000#	
ANNUAL TOTAL	282004		573945			
ANNUAL MEAN	773		1568		1357	
HIGHEST ANNUAL MEAN					2603	1962
LOWEST ANNUAL MEAN					713	1958
HIGHEST DAILY MEAN	3450	May 16	8620	Aug 16	64600	Aug 15 1967
LOWEST DAILY MEAN	a155	Mar 16	b230	Mar 11	c120	Feb 1 1953
ANNUAL SEVEN-DAY MINIMUM	157	Mar 15	230	Mar 11	120	Feb 1 1953
INSTANTANEOUS PEAK FLOW			8690	Aug 16	74400	Aug 15 1967
INSTANTANEOUS PEAK STAGE			8.39	Aug 16	d18.82	Aug 15 1967
ANNUAL RUNOFF (AC-FT)	559400		1138000		983100	
ANNUAL RUNOFF (CFSM)	.39		.79		.68	
ANNUAL RUNOFF (INCHES)	5.26		10.70		9.24	
10 PERCENT EXCEEDS	1500		4060		3170	
50 PERCENT EXCEEDS	560		540		720	
90 PERCENT EXCEEDS	186		250		234	

\# See Period of Record
a Mar. 16 to Mar. 17
b Mar. 11 to Mar. 17
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 SE¼ 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.

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. 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 1999 TO SEPTEMBER 2000
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20600	e10800	e7700	e6600	e6200	e6100	e6000	e20000	32700	59600	49900	55700
2	20200	e10800	e7700	e6600	e6200	e6100	e6000	e26000	35700	58600	49000	57000
3	20400	e10900	e7600	e6600	e6200	e6100	e6000	32100	38800	57000	48800	55900
4	20600	e10900	e7600	e6600	e6200	e6100	e6000	29500	40300	58500	49800	53800
5	20500	e10900	e7500	e6600	e6200	e6100	e6000	30000	42200	59900	52500	51500
6	20100	e10800	e7500	e6600	e6200	e6000	e6000	24400	44100	61400	54200	49500
7	19700	e10800	e7400	e6600	e6200	e6000	e6000	22700	46400	61400	53700	47800
8	19300	e10600	e7300	e6500	e6200	e6000	e6000	22900	49300	60600	51700	46400
9	18900	e10400	e7200	e6500	e6200	e6000	e6000	23700	51000	60400	50300	45600
10	18500	e10200	e7200	e6500	e6200	e6000	e6000	25300	49700	62200	49500	44600
11	17900	e10000	e7100	e6500	e6200	e6000	e6000	25500	50100	63200	49400	43300
12	17100	e9800	e7100	e6500	e6200	e6000	e6100	23500	54200	67900	51600	42700
13	16400	e9600	e7000	e6500	e6200	e6000	e6100	22200	55400	73900	58600	42100
14	16200	e9500	e7000	e6500	e6200	e6000	e6200	21100	56200	74200	66400	41900
15	e15600	e9300	e7000	e6400	e6200	e6000	e6200	20300	57000	71700	80600	41100
16	e15200	e9200	e7000	e6400	e6200	e6000	e6300	20100	58300	69300	87800	39600
17	e14800	e9100	e6900	e6400	e6200	e6000	e6400	20200	57500	70600	82400	38500
18	e14400	e9000	e6900	e6400	e6200	e6000	e6500	21200	56200	73500	73000	37100
19	e14000	e8800	e6900	e6400	e6100	e6000	e6600	23600	55200	73500	68100	35900
20	e13500	e8700	e6900	e6400	e6100	e6000	e6800	26900	53900	70200	66700	34700
21	e13000	e8600	e6900	e6300	e6100	e6000	e7100	29500	53700	66400	64300	34100
22	e12500	e8500	e6800	e6300	e6100	e6000	e7500	32300	52700	63800	59700	34800
23	e12100	e8400	e6800	e6300	e6100	e6000	e8000	35300	52800	62000	56600	39400
24	e11700	e8300	e6800	e6300	e6100	e6000	e8500	35800	53300	60500	56600	45500
25	e11300	e8200	e6800	e6300	e6100	e6000	e9000	38000	53200	59800	57500	47400
26	e10900	e8100	e6700	e6300	e6100	e6000	e10000	41800	55000	59000	57300	46400
27	e10700	e8000	e6700	e6300	e6100	e6000	e11000	42500	56000	57100	56400	45700
28	e10600	e7900	e6700	e6300	e6100	e6000	e13000	38300	56700	54200	56400	46300
29	e10600	e7900	e6700	e6300	e6100	e6000	e15000	34400	57100	52300	54700	45000
30	e10700	e7800	e6700	e6300	---	e6000	e17000	32900	58900	52200	53600	43900
31	e10700	---	e6700	e6300	---	e6000	---	32600	---	51000	54600	---
TOTAL	478700	281800	218800	199400	178700	186500	229300	874600	1533600	1945900	1821700	1333200
MEAN	15440	9393	7058	6432	6162	6016	7643	28210	51120	62770	58760	44440
MAX	20600	10900	7700	6600	6200	6100	17000	42500	58900	74200	87800	57000
MIN	10600	7800	6700	6300	6100	6000	6000	20000	32700	51000	48800	34100
MED	15200	9250	7000	6400	6200	6000	6250	26000	53500	61400	56400	44800
AC-FT	949500	559000	434000	395500	354500	369900	454800	1735000	3042000	3860000	3613000	2644000
CFSM	.60	.37	.28	.25	.24	.24	.30	1.10	2.00	2.45	2.30	1.74
IN.	.70	.41	.32	.29	.26	.27	.33	1.27	2.23	2.83	2.65	1.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2000, BY WATER YEAR (WY) #

MEAN	16670	9211	7346	6717	6501	6435	8739	31020	47660	59950	56480	33460
MAX	24730	14070	10770	9065	8171	8161	15090	62210	87390	76770	98210	57690
(WY)	1986	1986	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

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1962 - 2000#	
ANNUAL TOTAL	8052200		9282200			
ANNUAL MEAN	22060		25360		24070	
HIGHEST ANNUAL MEAN					29310	1967
LOWEST ANNUAL MEAN					19530	1970
HIGHEST DAILY MEAN	71100	Aug 15	87800	Aug 16	183000	Aug 18 1967
LOWEST DAILY MEAN	a5400	Feb 15	b6000	Mar 6	c4000	Mar 6 1974
ANNUAL SEVEN-DAY MINIMUM	5400	Feb 15	6000	Mar 6	4000	Mar 6 1974
INSTANTANEOUS PEAK FLOW			89400	Aug 16	186000	Aug 18 1967
INSTANTANEOUS PEAK STAGE			12.04	Aug 16	d18.90	Aug 18 1967
ANNUAL RUNOFF (AC-FT)	15970000		18410000		17440000	
ANNUAL RUNOFF (CFSM)	.86		.99		.94	
ANNUAL RUNOFF (INCHES)	11.70		13.49		12.78	
10 PERCENT EXCEEDS	56000		58400		59000	
50 PERCENT EXCEEDS	12000		10900		12000	
90 PERCENT EXCEEDS	5500		6000		6200	

\# See Period of Record, partial years used in monthly statistics
a From Feb. 15 to Mar. 16
b From Mar. 6 to Apr. 11
c From Mar. 6 to Mar. 20, 1974
d At site then in use
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 current year.

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 poor. Precipitation gage at station; daily values of precipitation are available from the computer files of the Alaska District. GOES satellite telemetry at station.

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	28	e9.0	e9.0	e9.0	e8.0	e8.5	e10	e50	114	21	25	133
2	44	e9.0	e9.0	e9.0	e8.0	e8.5	e10	e70	133	20	24	139
3	43	e9.0	e9.0	e8.5	e8.0	e8.5	e10	e100	93	22	23	108
4	34	e9.0	e9.0	e8.5	e8.0	e8.5	e10	e65	118	21	23	103
5	32	e9.0	e9.0	e8.0	e8.0	e8.5	e10	e40	97	39	29	95
6	30	e9.0	e9.0	e8.0	e8.0	e8.0	e10	e55	96	35	35	94
7	26	e9.0	e9.0	e7.5	e8.0	e8.0	e10	e70	92	24	35	113
8	23	e9.0	e8.5	e7.5	e7.5	e8.0	e10	e90	69	21	35	123
9	21	e9.0	e8.5	e7.5	e7.5	e8.0	e10	e60	49	23	45	120
10	16	e9.0	e8.5	e7.5	e7.5	e8.0	e10	e42	48	48	43	102
11	e14	e9.0	e8.5	e7.5	e7.5	e8.0	e10	e32	48	76	158	110
12	e13	e9.5	e8.5	e7.0	e7.5	e8.0	e11	e27	44	130	700	108
13	e13	e9.5	e8.5	e7.0	e7.5	e8.0	e11	e25	41	70	e260	97
14	e12	e9.5	e8.5	e7.0	e7.5	e8.0	e11	e28	45	51	e200	94
15	e12	e9.5	e8.5	e7.0	e7.5	e8.5	e11	e38	45	37	120	96
16	e11	e9.5	e8.5	e7.5	e7.5	e8.5	e11	e55	35	30	71	88
17	e11	e9.5	e8.5	e7.5	e7.5	e8.5	e12	e90	31	28	120	81
18	e10	e9.5	e9.0	e7.5	e7.5	e8.5	e12	e140	30	25	186	75
19	e10	e10	e9.0	e8.0	e7.5	e8.5	e12	e170	29	25	153	73
20	e10	e10	e9.5	e8.0	e7.5	e8.5	e12	121	27	25	50	72
21	e9.5	e11	e10	e8.0	e7.5	e8.5	e13	72	26	24	42	77
22	e9.5	11	e10	e8.0	e7.5	e8.5	e14	79	34	23	117	98
23	e9.5	e11	e10	e8.0	e7.5	e8.5	e16	93	30	24	67	71
24	e9.5	e10	e10	e8.0	e7.5	e8.5	e18	86	27	23	43	62
25	e9.5	e10	e10	e8.0	e7.5	e8.0	e20	58	24	27	103	59
26	e9.5	e10	e9.5	e8.0	e7.5	e8.0	e22	53	24	26	86	61
27	e9.5	e9.5	e9.5	e8.0	e8.0	e8.0	e25	60	22	30	62	52
28	e9.0	e9.5	e9.5	e7.5	e8.0	e8.0	e29	69	22	41	53	44
29	e9.0	e9.5	e9.5	e7.5	e8.0	e8.5	e34	129	25	39	65	42
30	e9.0	e9.5	e9.5	e7.5	---	e9.5	e40	114	26	29	336	40
31	e9.0	---	e9.0	e7.5	---	e10	---	111	---	26	163	---
TOTAL	515.5	286.5	282.0	241.0	222.5	259.5	444	2292	1544	1083	3472	2630
MEAN	16.6	9.55	9.10	7.77	7.67	8.37	14.8	73.9	51.5	34.9	112	87.7
MAX	44	11	10	9.0	8.0	10	40	170	133	130	700	139
MIN	9.0	9.0	8.5	7.0	7.5	8.0	10	25	22	20	23	40
MED	11	9.5	9.0	7.5	7.5	8.5	11	69	38	26	65	94
AC-FT	1020	568	559	478	441	515	881	4550	3060	2150	6890	5220
CFSM	.35	.20	.19	.16	.16	.17	.31	1.54	1.07	.73	2.33	1.82
IN.	.40	.22	.22	.19	.17	.20	.34	1.77	1.19	.84	2.69	2.03

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

MEAN	22.3	15.4	11.8	9.60	8.01	8.19	23.7	78.2	66.2	44.2	50.2	43.4
MAX	47.4	25.4	20.0	18.7	20.6	19.1	45.5	166	145	77.0	112	134
(WY)	1994	1994	1987	1995	1994	1994	1994	1992	1989	1986	2000	1990
MIN	10.3	4.87	1.65	.95	.000	.000	.000	40.1	32.0	25.6	22.7	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	7383.5		13272.0			
ANNUAL MEAN	20.2		36.3		31.4	
HIGHEST ANNUAL MEAN					43.6	1990
LOWEST ANNUAL MEAN					21.1	1999
HIGHEST DAILY MEAN	150	May 16	700	Aug 12	852	Jun 25 1989
LOWEST DAILY MEAN	a6.5	Feb 24	b7.0	Jan 12	c.00	Feb 1 1986
ANNUAL SEVEN-DAY MINIMUM	6.5	Feb 24	7.2	Jan 9	.00	Feb 1 1986
INSTANTANEOUS PEAK FLOW			2200	Aug 12	d2400	Aug 21 1986
INSTANTANEOUS PEAK STAGE			5.06	Aug 12	f11.05	Aug 21 1986
ANNUAL RUNOFF (AC-FT)	14650		26330		22770	
ANNUAL RUNOFF (CFSM)	.42		.75		.65	
ANNUAL RUNOFF (INCHES)	5.71		10.26		8.88	
10 PERCENT EXCEEDS	40		96		69	
50 PERCENT EXCEEDS	12		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 Apr. 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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1980 to 1981, 1986 to current year

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	STREAM WIDTH (FT) (00004)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. FALL DIAM. % FINER THAN .002 MM (70337)
MAY											
16...	1300	36.0	3.20	45	10	3001	1.5	15.0	813	99	19
JUN											
14...	1600	37.0	3.25	47	10	3001	8.5	12.5	542	69	28
JUL											
20...	1800	35.4	3.08	24	10	3001	10.0	20.0	34	2.2	--
AUG											
11...	1800	40.5	3.70	204	10	3001	7.0	12.0	10100	5560	14
18...	1645	50.0	3.68	150	10	3001	6.5	--	3760	1520	16
SEP											
26...	1030	42.0	2.96	62	10	3001	2.5	3.0	256	43	--

DATE	SED. SUSP. FALL DIAM. % FINER THAN .004 MM (70338)	SED. SUSP. FALL DIAM. % FINER THAN .008 MM (70339)	SED. SUSP. FALL DIAM. % FINER THAN .016 MM (70340)	SED. SUSP. FALL DIAM. % FINER THAN .031 MM (70341)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SED. SUSP. SIEVE DIAM. % FINER THAN .125 MM (70332)	SED. SUSP. SIEVE DIAM. % FINER THAN .250 MM (70333)	SED. SUSP. SIEVE DIAM. % FINER THAN .500 MM (70334)	SED. SUSP. SIEVE DIAM. % FINER THAN 1.00 MM (70335)	SED. SUSP. SIEVE DIAM. % FINER THAN 2.00 MM (70336)
MAY										
16...	26	37	48	59	67	81	96	99	100	--
JUN										
14...	42	59	72	81	83	88	93	97	99	100
JUL										
20...	--	--	--	--	73	--	--	--	--	--
AUG										
11...	23	35	46	52	55	68	86	97	99	100
18...	24	33	41	51	56	73	89	97	99	100
SEP										
26...	--	--	--	--	77	82	89	96	100	--

15564879 SLATE CREEK AT COLDFOOT

LOCATION.--Lat 67°15′17″, long 150°10′24″, in NW¼ sec. 15, T. 28 N., R. 12 W. (Wiseman B-1 quad), Hydrologic Unit 19040601, on left bank 80 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 145 ft upstream at same datum.

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

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	e80	e34	e13	e5.6	e2.8	e2.2	e2.0	e4.0	e440	70	105	116
2	e75	e33	e12	e5.4	e2.8	e2.2	e2.0	e4.2	e500	75	91	125
3	e70	e32	e12	e5.4	e2.8	e2.2	e2.0	e4.2	566	76	83	128
4	e65	e31	e12	e5.2	e2.8	e2.2	e2.0	e4.4	615	78	101	124
5	e60	e30	e11	e5.0	e2.8	e2.2	e2.0	e4.4	656	81	114	120
6	e56	e29	e11	e5.0	e2.6	e2.2	e2.0	e4.6	634	78	107	116
7	e54	e28	e11	e4.8	e2.6	e2.2	e2.0	e4.8	802	73	98	114
8	e52	e27	e10	e4.6	e2.6	e2.2	e2.0	e5.0	545	71	92	115
9	e50	e26	e10	e4.6	e2.6	e2.2	e2.0	e5.2	506	69	86	124
10	e48	e25	e10	e4.4	e2.6	e2.2	e2.0	e5.4	480	71	88	126
11	e46	e24	e9.8	e4.4	e2.6	e2.2	e2.0	e6.0	379	78	102	119
12	e45	e24	e9.6	e4.2	e2.4	e2.2	e2.0	e7.0	291	153	104	126
13	e45	e23	e9.4	e4.2	e2.4	e2.2	e2.0	e7.6	247	103	122	145
14	e44	e22	e9.0	e4.0	e2.4	e2.2	e2.0	e8.2	216	84	162	138
15	e44	e21	e8.8	e4.0	e2.4	e2.2	e2.0	e8.8	176	74	134	125
16	e43	e21	e8.6	e3.8	e2.4	e2.2	e2.0	e9.6	156	69	117	119
17	e43	e20	e8.4	e3.8	e2.4	e2.0	e2.2	e11	121	74	110	112
18	e42	e20	e8.2	e3.8	e2.4	e2.0	e2.2	e14	127	72	118	108
19	e42	e19	e8.0	e3.6	e2.4	e2.0	e2.2	e20	124	67	123	102
20	e42	e18	e7.8	e3.6	e2.4	e2.0	e2.2	e26	124	62	112	99
21	e41	e18	e7.6	e3.4	e2.4	e2.0	e2.4	e38	138	58	124	106
22	e41	e17	e7.4	e3.4	e2.4	e2.0	e2.6	e50	120	55	253	171
23	e41	e17	e7.2	e3.4	e2.4	e2.0	e2.8	e70	110	54	444	206
24	e41	e16	e7.0	e3.2	e2.4	e2.0	e3.0	e90	102	58	308	157
25	e41	e16	e6.8	e3.2	e2.2	e2.0	e3.2	e120	96	58	224	135
26	e40	e15	e6.8	e3.2	e2.2	e2.0	e3.4	e160	92	56	186	124
27	e40	e15	e6.6	e3.2	e2.2	e2.0	e3.6	e200	87	78	164	e110
28	e39	e14	e6.4	e3.0	e2.2	e2.0	e3.6	e250	81	112	146	e100
29	e38	e14	e6.2	e3.0	e2.2	e2.0	e3.8	e320	77	101	133	e90
30	e37	e13	e6.0	e3.0	---	e2.0	e3.8	e360	74	90	124	e82
31	e36	---	e5.8	e3.0	---	e2.0	---	e400	---	87	117	---
TOTAL	1481	662	273.4	124.4	71.8	65.2	73.0	2222.4	8682	2385	4392	3682
MEAN	47.8	22.1	8.82	4.01	2.48	2.10	2.43	71.7	289	76.9	142	123
MAX	80	34	13	5.6	2.8	2.2	3.8	400	802	153	444	206
MIN	36	13	5.8	3.0	2.2	2.0	2.0	4.0	74	54	83	82
AC-FT	2940	1310	542	247	142	129	145	4410	17220	4730	8710	7300
CFSM	.65	.30	.12	.05	.03	.03	.03	.98	3.94	1.05	1.93	1.67
IN.	.75	.34	.14	.06	.04	.03	.04	1.13	4.40	1.21	2.23	1.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2000, BY WATER YEAR (WY) #

MEAN	47.3	18.1	13.1	8.07	5.72	4.62	5.78	232	190	108	204	161
MAX	88.5	30.0	17.3	12.1	9.07	7.13	9.32	378	289	184	435	212
(WY)	1999	1999	1999	1999	1999	1999	1998	1998	2000	1995	1998	1998
MIN	16.2	2.28	8.82	4.01	2.48	2.10	2.43	71.7	128	54.7	121	71.7
(WY)	1997	1998	2000	2000	2000	2000	2000	2000	1997	1996	1996	1996

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1995 - 2000#	
ANNUAL TOTAL	28911.4		24114.2			
ANNUAL MEAN	79.2		65.9		75.0	
HIGHEST ANNUAL MEAN					84.0	1999
LOWEST ANNUAL MEAN					65.9	2000
HIGHEST DAILY MEAN	497	Jul 21	802	Jun 7	a2850	May 26 1998
LOWEST DAILY MEAN	b5.0	Apr 19	c2.0	Mar 17	d.10	Apr 1 1998
ANNUAL SEVEN-DAY MINIMUM	5.0	Apr 19	2.0	Mar 17	.10	Apr 1 1998
INSTANTANEOUS PEAK FLOW			930	Jun 7	f4930	May 26 1998
INSTANTANEOUS PEAK STAGE			16.31	Jun 7	19.73	May 26 1998
INSTANTANEOUS PEAK STAGE			g19.2	May 7		
ANNUAL RUNOFF (AC-FT)	57350		47830		54300	
ANNUAL RUNOFF (CFSM)	1.08		.90		1.02	
ANNUAL RUNOFF (INCHES)	14.65		12.22		13.87	
10 PERCENT EXCEEDS	218		138		260	
50 PERCENT EXCEEDS	27		20		80	
90 PERCENT EXCEEDS	6.0		2.2		3.6	

\# See Period of Record; partial years used in monthly summary statistics
a Revised in 1999 from 2740 ft^3/s.
b From Apr. 19 to May 6
c From Mar. 17 to Apr. 16
d From Apr. 1 to 9.
e Estimated
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
g From floodmarks, backwater from ice.

15564879 SLATE CREEK AT COLDFOOT--Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 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.--No record October 8 to June 21 due to probe frozen in ice and faulty probe. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on October 7, 1999, May 26, and August 9. A variation of less than 0.5°C was found within the cross section on October 7, and August 9 with a variation of 0.5°C on May 26. The variation found between mean stream temperature and sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 14.5°C, July 5 and 21, 1998; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 13.0°C, July 7; minimum, 0.0°C, recorded on several days during the freeze-up periods in October and September.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

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)	TEMPER-ATURE WATER (DEG C) (00010)	TEMPER-ATURE AIR (DEG C) (00020)
OCT							
07...	1741	39.5	4.00	13.78	53	1.0	--
07...	1745	39.5	12.0	13.78	53	1.0	--
07...	1749	39.5	20.0	13.78	53	1.0	--
07...	1753	39.5	28.0	13.78	53	1.0	--
07...	1757	39.5	36.0	13.78	53	1.0	--
MAY							
26...	1045	47.0	6.00	15.36	170	.0	7.0
26...	1048	47.0	15.0	15.36	170	.0	7.0
26...	1051	47.0	24.0	15.36	170	.0	7.0
26...	1054	47.0	33.0	15.36	170	.5	7.0
26...	1057	47.0	42.0	15.36	170	.0	7.0
AUG							
09...	1241	58.0	6.00	14.03	84	6.5	10.5
09...	1242	58.0	16.0	14.03	84	6.5	10.5
09...	1243	58.0	26.0	14.03	84	6.5	10.5
09...	1244	58.0	36.0	14.03	84	6.5	10.5
09...	1245	58.0	46.0	14.03	84	6.5	10.5
09...	1246	58.0	56.0	14.03	84	6.5	10.5

15564879 SLATE CREEK AT COLDFOOT--Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	.5	.0	.0	---	---	---	---	---	---	---	---	---
2	1.0	.0	.0	---	---	---	---	---	---	---	---	---
3	.5	.0	.0	---	---	---	---	---	---	---	---	---
4	1.0	.0	.0	---	---	---	---	---	---	---	---	---
5	1.0	.0	.5	---	---	---	---	---	---	---	---	---
6	1.0	.0	.5	---	---	---	---	---	---	---	---	---
7	1.0	.5	.5	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	---	---	---
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	---	---	---
25	---	---	---	---	---	---	---	---	---	---	---	---
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	9.0	5.0	6.5	10.5	5.5	8.0	6.5	5.0	5.5
2	---	---	---	7.0	5.5	6.0	11.5	5.5	8.5	6.5	4.5	5.0
3	---	---	---	8.5	5.0	6.5	11.5	7.0	9.0	6.0	2.5	4.0
4	---	---	---	8.0	6.0	7.0	9.5	7.5	8.5	5.5	3.0	4.5
5	---	---	---	9.5	5.5	7.0	9.0	6.5	7.5	5.5	2.5	4.0
6	---	---	---	10.5	4.5	7.5	11.0	5.0	7.5	6.0	3.5	4.5
7	---	---	---	13.0	5.5	9.0	10.5	5.5	8.0	5.0	2.5	3.5
8	---	---	---	11.5	7.5	9.5	8.5	5.5	7.0	6.0	3.5	4.5
9	---	---	---	12.5	7.5	10.0	7.5	6.0	6.5	5.5	3.0	4.5
10	---	---	---	11.0	8.0	9.5	8.0	6.0	7.0	5.5	2.5	4.0
11	---	---	---	10.5	7.5	9.0	7.5	6.0	6.5	5.0	3.5	4.0
12	---	---	---	9.5	5.0	7.5	7.0	5.0	6.0	4.5	3.5	4.0
13	---	---	---	11.0	4.5	7.5	9.0	6.5	7.5	5.0	3.0	4.0
14	---	---	---	11.0	4.5	8.0	7.5	4.5	6.0	4.5	1.5	2.5
15	---	---	---	12.0	6.5	9.0	9.0	2.5	5.5	4.0	2.5	3.0
16	---	---	---	10.5	7.5	9.0	9.0	3.0	6.0	3.0	1.0	2.0
17	---	---	---	11.0	7.5	9.0	7.0	3.5	5.0	3.0	.5	1.5
18	---	---	---	11.5	6.0	8.5	7.5	4.5	6.0	1.5	.0	.5
19	---	---	---	12.0	6.5	9.5	8.0	3.5	5.5	2.5	1.0	1.5
20	---	---	---	12.5	6.0	9.0	8.0	4.5	6.0	3.5	1.5	2.5
21	---	---	---	12.0	6.0	9.5	6.5	5.0	5.5	2.5	1.5	2.0
22	10.5	3.0	6.5	11.0	7.5	9.5	5.5	3.5	4.0	3.0	2.0	2.5
23	11.0	3.5	7.0	10.0	7.0	8.5	5.0	3.0	4.0	2.5	1.0	2.0
24	11.5	3.5	7.5	9.5	7.0	8.5	6.0	3.0	4.0	2.0	.5	1.0
25	11.5	4.5	7.5	9.5	6.0	7.5	6.0	3.0	4.5	2.0	.5	1.0
26	10.5	5.5	7.5	7.5	5.5	6.5	6.0	3.0	4.5	2.0	1.0	1.5
27	8.0	5.0	7.0	7.5	5.5	6.5	7.0	3.0	5.0	1.0	.0	.5
28	9.5	4.5	7.0	9.0	4.0	6.0	7.5	3.0	5.0	.5	.0	.0
29	10.0	4.0	7.0	10.5	4.5	7.0	7.0	3.0	5.0	.5	.0	.0
30	10.5	4.5	7.5	9.0	5.0	7.0	7.5	3.0	5.0	.0	.0	.0
31	---	---	---	10.5	5.5	8.0	8.0	4.0	6.0	---	---	---
MONTH	---	---	---	13.0	4.0	8.0	11.5	2.5	6.1	6.5	.0	2.7

15565700 UNALAKLEET RIVER ABOVE CHIROSKEY RIVER NEAR UNALAKLEET

LOCATION.--Lat 63°56′06″, long 160°18′18″, in NW¼ NE¼ sec. 18, T.18 S., R.8 W. (Unalakleet D-3 quad), Hydrologic Unit 19050102, on the right bank, 3.5 mi upstream from mouth of the Chiroskey River, 28 mi upstream from mouth, 15 mi east of Unalakleet.

DRAINAGE AREA.--1,048 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1997 to September 1999 (no winter record),October 1999 to current year.

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

GAGE.--Water-stage recorder. Elevation of gage is 40 ft above sea level from topographic map.

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

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	1270	e700	e350	e180	e130	e110	e100	e170	5320	988	2130	2250
2	1400	e700	e350	e180	e130	e110	e100	e180	6690	941	2450	2620
3	1600	e650	e350	e180	e130	e110	e100	e190	6880	908	2590	3260
4	1630	e650	e300	e180	e130	e110	e100	e200	6360	877	3440	3610
5	1620	e600	e300	e170	e130	e110	e100	e240	6580	848	3910	4280
6	1580	e600	e300	e170	e130	e110	e100	e260	6740	821	3840	5920
7	1540	e600	e300	e170	e130	e110	e100	e280	5380	792	3450	6320
8	1490	e550	e280	e170	e130	e110	e100	e300	5430	780	3100	6000
9	1450	e550	e280	e170	e120	e110	e100	e360	4860	843	2830	5160
10	1420	e550	e280	e160	e120	e110	e100	e400	4340	1080	2700	4490
11	1370	e500	e260	e160	e120	e110	e110	e480	3820	1070	2700	4360
12	1260	e500	e260	e160	e120	e110	e110	e520	3980	968	2660	3910
13	1240	e500	e260	e160	e120	e110	e110	e680	3350	906	3520	3570
14	1220	e500	e260	e160	e120	e110	e110	e900	2980	902	5330	3280
15	e1200	e450	e260	e150	e120	e110	e110	e1200	2770	1390	4540	3010
16	e1200	e450	e240	e150	e120	e110	e110	e1700	2470	3110	3680	2780
17	e1100	e450	e240	e150	e120	e110	e110	e2500	2170	3060	3280	2580
18	e1100	e450	e240	e150	e120	e110	e110	e3800	2050	2720	3440	2410
19	e1000	e450	e240	e150	e120	e110	e110	5430	1940	2330	3480	2370
20	e1000	e450	e220	e150	e120	e110	e120	6510	1800	2070	3070	2270
21	e950	e400	e220	e140	e120	e110	e120	6590	1740	1910	2790	2310
22	e950	e400	e220	e140	e110	e110	e120	4750	1660	1750	2580	2920
23	e900	e400	e220	e140	e110	e110	e120	3500	1520	1630	2370	3500
24	e900	e400	e220	e140	e110	e110	e120	2780	1420	1620	2200	3430
25	e900	e400	e200	e140	e110	e100	e130	2300	1340	1620	2060	3330
26	e850	e350	e200	e140	e110	e100	e130	2040	1270	1580	1950	3390
27	e850	e350	e200	e140	e110	e100	e140	2080	1200	1580	1870	3080
28	e800	e350	e200	e130	e110	e100	e140	2180	1150	1680	1840	2780
29	e800	e350	e190	e130	e110	e100	e150	2130	1090	1680	1780	2600
30	e750	e350	e190	e130	---	e100	e160	2480	1040	1680	2070	2460
31	e700	---	e190	e130	---	e100	---	3730	---	1680	2180	---
TOTAL	36040	14600	7820	4770	3480	3340	3440	60860	99340	45814	89830	104250
MEAN	1163	487	252	154	120	108	115	1963	3311	1478	2898	3475
MAX	1630	700	350	180	130	110	160	6590	6880	3110	5330	6320
MIN	700	350	190	130	110	100	100	170	1040	780	1780	2250
AC-FT	71490	28960	15510	9460	6900	6620	6820	120700	197000	90870	178200	206800
CFSM	1.11	.46	.24	.15	.11	.10	.11	1.87	3.16	1.41	2.77	3.32
IN.	1.28	.52	.28	.17	.12	.12	.12	2.16	3.53	1.63	3.19	3.70

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2000, BY WATER YEAR (WY)#

MEAN	---	---	---	---	---	---	---	---	2817	1513	3480	3052
MAX	---	---	---	---	---	---	---	---	3447	2107	5690	3890
(WY)	---	---	---	---	---	---	---	---	1998	1999	1998	1998
MIN	---	---	---	---	---	---	---	---	1216	562	2408	1385
(WY)	---	---	---	---	---	---	---	---	1997	1997	1997	1999

SUMMARY STATISTICS	FOR 2000 WATER YEAR		WATER YEARS 1997 - 2000#	
ANNUAL TOTAL	473584			
ANNUAL MEAN	1294			
HIGHEST DAILY MEAN	6880	Jun 3	9540	Aug 21 1998
LOWEST DAILY MEAN	a100	Mar 25		
ANNUAL SEVEN-DAY MINIMUM	100	Mar 25		
INSTANTANEOUS PEAK FLOW	7290	Jun 2	9920	Sep 26 1998
INSTANTANEOUS PEAK STAGE	92.67	Jun 2	94.17	Sep 26 1998
ANNUAL RUNOFF (AC-FT)	939400		937400	
ANNUAL RUNOFF (CFSM)	1.23		1.23	
ANNUAL RUNOFF (INCHES)	16.81		16.78	
10 PERCENT EXCEEDS	3490		4490	
50 PERCENT EXCEEDS	510		1640	
90 PERCENT EXCEEDS	110		122	

\# See Period of Record
a From Mar. 25 to Apr.10.
e Estimated

15565700 UNALAKLEET RIVER ABOVE CHIROSKEY RIVER NEAR UNALAKLEET—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1982-83, 1998 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 1998 to current year.

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

REMARKS.--No record on September 23 due to recorder problems. Records represent water temperature at the sensor within 0.5°C. Temperature was compared with the stream average by cross section on August 17. 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, 14.5°C, July 11,12 2000; minimum, 0.0°C, many days during winter and spring breakup periods.
.
EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 14.5°C, July 11,12; minimum, 0.0°C, many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	TIME	STREAM WIDTH (FT) (00004)	SAMPLE LOC- ATION, CROSS SECTION (FT FM R BK) (72103)	GAGE HEIGHT (FEET) (00065)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING METHOD, CODES (82398)	TEMPER- ATURE WATER (DEG C) (00010)	TEMPER- ATURE AIR (DEG C) (00020)
AUG								
17...	1248	256	0.0	89.65	3400	8010	7.0	10.0
17...	1250	256	70.0	89.65	3400	8010	7.0	10.0
17...	1252	256	110.0	89.65	3400	8010	7.0	10.0
17...	1254	256	150.0	89.65	3400	8010	7.0	10.0
17...	1256	256	230.0	89.65	3400	8010	7.0	10.0

TEMPERATURE, WATER (DEGREES CELSIUS) OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	2.5	1.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	3.0	2.5	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	3.5	3.0	3.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	3.5	3.0	3.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	3.0	2.0	2.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	2.0	1.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	2.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	2.0	1.5	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	2.0	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	2.5	2.0	2.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	2.0	1.0	1.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	1.0	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.5	.5	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.5	.0	.5	.0	.0	.0	.0	.0	.0	.0	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
16	.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
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
21	.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
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
30	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
31	.0	.0	.0	---	---	---	.0	.0	.0	.0	.0	.0
MONTH	3.5	.0	.9	.0	.0	.0	.0	.0	.0	.0	.0	.0

15565700 UNALAKLEET RIVER ABOVE CHIROSKEY RIVER NEAR UNALAKLEET—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
2	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
3	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
4	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
5	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
6	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
7	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
8	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
9	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
10	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
11	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
12	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
13	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0	.0
14	.0	.0	.0	.0	.0	.0	.0	.0	.0	.5	.0	.0
15	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.5
16	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.5	1.0
17	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.5	.0	1.0
18	.0	.0	.0	.0	.0	.0	.0	.0	.0	1.0	.0	.5
19	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	.5	1.0
20	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.5	1.5
21	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	.5	1.0
22	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	1.0	1.5
23	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	1.5	2.0
24	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.0	1.5
25	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.0	1.5	1.5
26	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	2.0	2.5
27	.0	.0	.0	.0	.0	.0	.0	.0	.0	2.5	2.0	2.5
28	.0	.0	.0	.0	.0	.0	.0	.0	.0	3.0	2.0	2.5
29	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.0	2.5	3.5
30	---	---	---	.0	.0	.0	.0	.0	.0	4.5	4.0	4.0
31	---	---	---	.0	.0	.0	---	---	---	4.0	2.5	3.0
MONTH	.0	.0	.0	.0	.0	.0	.0	.0	.0	4.5	.0	1.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	3.5	3.0	3.0	13.0	11.0	12.0	8.0	7.0	7.5	6.0	5.5	6.0
2	4.0	3.5	3.5	12.5	11.0	11.5	8.5	7.5	8.0	6.0	5.5	6.0
3	4.5	4.0	4.5	11.5	10.0	10.5	9.0	8.0	8.5	6.0	5.5	5.5
4	5.0	4.5	5.0	12.5	10.0	11.0	8.5	7.5	8.0	6.0	5.5	5.5
5	5.5	4.5	5.0	12.5	11.0	11.5	7.5	7.5	7.5	5.5	5.5	5.5
6	5.5	4.5	5.0	13.0	11.0	12.0	7.5	7.0	7.5	5.5	5.5	5.5
7	5.5	5.0	5.0	13.0	12.0	12.5	7.0	7.0	7.0	5.5	5.0	5.5
8	6.5	5.0	5.5	12.5	11.5	12.0	7.5	7.0	7.5	5.0	4.5	5.0
9	7.5	6.5	7.0	12.5	11.0	11.5	7.0	6.5	7.0	4.5	4.0	4.0
10	7.5	6.5	7.0	14.0	11.5	12.5	7.0	6.5	7.0	5.0	4.0	4.5
11	7.5	6.5	7.0	14.5	12.0	13.0	7.5	7.0	7.5	4.5	4.5	4.5
12	7.0	6.5	7.0	14.5	12.5	13.5	8.0	7.5	8.0	5.0	4.5	4.5
13	8.5	7.0	7.5	14.0	12.0	13.0	8.5	8.0	8.0	4.5	4.0	4.5
14	9.5	8.0	8.5	12.0	10.0	11.0	8.5	8.0	8.0	4.0	4.0	4.0
15	9.0	8.0	9.0	10.0	9.5	9.5	8.0	7.5	7.5	4.0	3.5	4.0
16	8.0	7.0	7.5	9.5	8.0	8.5	7.5	6.5	7.0	4.5	3.5	4.0
17	8.0	7.5	7.5	8.5	8.0	8.5	7.0	6.5	7.0	4.0	3.0	3.5
18	8.5	7.5	8.0	8.5	8.0	8.5	7.5	7.0	7.0	3.0	2.5	3.0
19	10.0	8.5	9.0	9.0	8.0	8.5	7.0	6.0	7.0	4.0	3.0	3.5
20	10.0	9.0	9.5	9.5	8.5	9.0	6.5	6.0	6.5	4.0	4.0	4.0
21	10.5	9.0	9.5	10.0	8.5	9.0	6.5	6.0	6.0	5.0	4.0	4.5
22	11.0	8.5	9.5	11.0	9.0	10.0	6.0	5.5	5.5	5.5	5.0	5.0
23	11.5	9.5	10.5	10.5	9.0	10.0	6.0	5.5	6.0	---	---	---
24	12.5	10.5	11.5	9.5	8.5	9.0	6.0	5.0	5.5	3.5	3.5	3.5
25	12.5	11.0	12.0	10.0	8.5	9.0	6.0	5.0	5.5	4.0	3.5	3.5
26	12.5	11.0	11.5	9.5	9.0	9.5	6.0	5.0	5.5	4.0	2.5	3.5
27	12.0	11.0	11.5	9.0	7.0	8.0	6.5	5.5	6.0	2.5	2.0	2.5
28	12.5	10.5	11.0	7.0	6.5	6.5	7.5	6.0	6.5	2.0	1.0	1.5
29	11.5	10.5	11.0	7.5	6.5	7.0	8.5	7.5	8.0	2.0	1.0	1.5
30	14.0	10.0	11.5	8.0	6.0	7.0	8.5	7.5	8.0	1.5	1.0	1.5
31	---	---	---	8.5	7.5	8.0	7.5	6.0	7.0	---	---	---
MONTH	14.0	3.0	8.0	14.5	6.0	10.1	9.0	5.0	7.0	---	---	---

15743850 DAHL CREEK NEAR KOBUK

LOCATION.--Lat 66°56′46″, long 156°54′32″, in NW¼ SE¼ sec. 21, T. 18 N., R.9 E. (Shungnak D-2 quad), Hydrologic Unit 19050302, on right bank 25 ft downstream from culvert on road to Bornite at west end of Dahl Creek landing strip, 3.5 mi upstream from mouth and 3 mi north of Kobuk.

DRAINAGE AREA.--11.0 mi^2.

PERIOD OF RECORD.--Annual maximum, water years 1986-87, April 1988 to current year. (No winter record in water years 1989, 1991-92, 1994, and 1996.)

REVISED RECORDS.--WDR AK-88-1: 1986(M).

GAGE.--Water-stage recorder. Elevation of gage is 225 ft above sea level, from topographic map. July 16, 1986, to April 28, 1988, the water-stage recorder was operated to obtain annual maximums. Prior to August 17, 1994 at site 50 ft upstream at same datum.

REMARKS.--Records poor.

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	20	e10	e7.0	e5.5	e5.0	e5.0	e4.8	e4.8	e65	11	19	e20
2	20	e10	e7.0	e5.5	e5.0	e5.0	e4.8	e4.8	e110	11	18	e30
3	20	e10	e6.5	e5.5	e5.0	e5.0	4.8	e4.8	181	12	19	e50
4	19	e10	e6.5	e5.5	e5.0	e5.0	e4.8	e4.8	172	12	e25	e70
5	19	e9.5	e6.5	e5.5	e5.0	e5.0	e4.8	e4.8	158	12	e40	e85
6	19	e9.5	e6.5	e5.5	e5.0	e5.0	e4.8	e4.8	154	12	e80	80
7	19	e9.5	e6.5	e5.5	e5.0	e5.0	e4.8	e4.8	129	11	e70	79
8	19	e9.0	e6.5	e5.5	e5.0	e5.0	e4.8	e4.8	101	11	e65	77
9	18	e9.0	e6.5	e5.5	e5.0	e5.0	e4.8	e4.8	70	10	e60	76
10	18	e9.0	e6.5	e5.5	e5.0	e5.0	e5.0	e4.8	57	10	e55	74
11	e18	e8.5	e6.5	e5.5	e5.0	e5.0	e5.0	e4.8	50	10	e55	76
12	18	e8.5	e6.5	e5.5	e5.0	e5.0	e5.0	e5.0	43	10	e70	71
13	17	e8.5	e6.0	e5.5	e5.0	e5.0	e5.0	e5.0	36	10	e85	68
14	17	e8.5	e6.0	e5.5	e5.0	e4.8	e5.0	e5.5	33	9.6	e80	64
15	e16	e8.5	e6.0	e5.5	e5.0	e4.8	e5.0	e6.0	26	10	e75	62
16	e16	e8.0	e6.0	e5.5	e5.0	e4.8	e5.0	e6.5	23	12	e65	62
17	e16	e8.0	e6.0	e5.5	e5.0	e4.8	e4.8	e7.0	24	15	e60	58
18	e15	e8.0	e6.0	e5.5	e5.0	e4.8	e4.8	e7.0	21	12	e55	57
19	e15	e8.0	e6.0	e5.5	e5.0	e4.8	e4.8	e7.0	18	11	e50	54
20	e14	e8.0	e6.0	e5.5	e5.0	e4.8	e4.8	e7.0	19	11	e46	52
21	e14	e7.5	e6.0	e5.5	e5.0	e4.8	e4.8	e7.0	17	11	e42	70
22	e13	e7.5	e6.0	e5.5	e5.0	e4.8	e4.8	e7.5	16	11	e40	85
23	e13	e7.5	e6.0	e5.5	e5.0	e4.8	e4.8	e8.5	15	12	e36	76
24	e13	e7.5	e6.0	e5.5	e5.0	e4.8	e4.8	e10	14	12	e34	72
25	e12	e7.5	e6.0	e5.0	e5.0	e4.8	e4.8	e11	13	11	e32	71
26	e12	e7.0	e6.0	e5.0	e5.0	e4.8	e4.8	e13	13	19	e30	69
27	e12	e7.0	e6.0	e5.0	e5.0	e4.8	e4.8	e16	13	34	e28	66
28	e11	e7.0	e6.0	e5.0	e5.0	e4.8	e4.8	e20	13	25	e26	64
29	e11	e7.0	e5.5	e5.0	e5.0	e4.8	e4.8	e25	12	21	e24	63
30	e11	e7.0	e5.5	e5.0	---	e4.8	e4.8	e32	12	20	e23	60
31	e11	---	e5.5	e5.0	---	e4.8	---	e44	---	19	e21	---
TOTAL	486	250.5	191.5	167.0	145.0	151.4	145.4	302.8	1628	417.6	1428	1961
MEAN	15.7	8.35	6.18	5.39	5.00	4.88	4.85	9.77	54.3	13.5	46.1	65.4
MAX	20	10	7.0	5.5	5.0	5.0	5.0	44	181	34	85	85
MIN	11	7.0	5.5	5.0	5.0	4.8	4.8	4.8	12	9.6	18	20
AC-FT	964	497	380	331	288	300	288	601	3230	828	2830	3890
CFSM	1.43	.76	.56	.49	.45	.44	.44	.89	4.93	1.22	4.19	5.94
IN.	1.64	.85	.65	.56	.49	.51	.49	1.02	5.51	1.41	4.83	6.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2000, BY WATER YEAR (WY) #

MEAN	29.2	9.40	5.78	4.70	4.21	3.87	4.41	57.6	62.5	35.8	68.0	51.6
MAX	67.2	16.0	8.17	6.88	6.15	5.63	7.39	93.1	116	73.2	223	104
(WY)	1994	1999	1998	1998	1998	1998	1997	1996	1992	1989	1994	1993
MIN	9.65	3.70	2.55	2.00	2.00	1.63	1.50	9.77	13.1	10.6	17.3	19.8
(WY)	1993	1993	1993	1993	1993	1993	1993	2000	1997	1997	1990	1991

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1986 - 2000#	
ANNUAL TOTAL	5798.7		7274.2			
ANNUAL MEAN	15.9		19.9		25.1	
HIGHEST ANNUAL MEAN					36.7	1993
LOWEST ANNUAL MEAN					18.8	1999
HIGHEST DAILY MEAN	51	May 24	181	Jun 3	1400	Aug 17 1994
LOWEST DAILY MEAN	a3.4	Mar 19	b4.8	Mar 14	c1.5	Mar 9 1993
ANNUAL SEVEN-DAY MINIMUM	3.4	Mar 19	4.8	Mar 14	1.5	Mar 9 1993
INSTANTANEOUS PEAK FLOW			299	Jun 3	d1840	Aug 17 1994
INSTANTANEOUS PEAK STAGE			5.57	Jun 3	6.73	Aug 17 1994
INSTANTANEOUS PEAK STAGE			f8.76	Jun 1		
ANNUAL RUNOFF (AC-FT)	11500		14430		18160	
ANNUAL RUNOFF (CFSM)	1.44		1.81		2.28	
ANNUAL RUNOFF (INCHES)	19.61		24.60		30.96	
10 PERCENT EXCEEDS	36		63		83	
50 PERCENT EXCEEDS	9.0		7.5		20	
90 PERCENT EXCEEDS	3.6		4.8		3.6	

\# See Period of Record; partial years used in monthly statistics
a From Mar. 19 to Apr. 14
b From Mar. 14 to Apr. 9, Apr. 17 to May 11
c From Mar. 9 to Apr. 30, 1993
d From rating curve extended above 170 ft^3/s on basis of slope-area measurement of peak flow
e Estimated
f Backwater from ice

15744500 KOBUK RIVER NEAR KIANA

LOCATION.--Lat 66°58′25″, long 160°07′51″, in NW¼ SE¼ sec. 11, T. 18 N., R. 7 W.(Selawik D-3 quad), Northwest Arctic Borough, Hydrologic Unit 19050304, on left bank, 5.8 mi upstream from Portage Creek, 9.7 mi upstream from Squirrel River, and 7.8 mi east of Kiana.

DRAINAGE AREA.--9,520 mi^2, approximately.

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

REVISED RECORDS.--WDR AK-81-1: 1977 (M), 1978, 1979-80 (M), WDR AK-93-1: 1992.

GAGE.--Water-stage recorder. Elevation of gage is 35 ft above sea level, from topographic map.

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

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	e13500	e5000	e2900	e2200	e1900	e1800	e1700	e1600	e25000	11500	21100	15300
2	e12500	e4900	e2800	e2200	e1900	e1800	e1700	e1600	e40000	10700	21000	16500
3	e12000	e4800	e2800	e2200	e1900	e1800	e1700	e1600	e60000	10200	21300	21900
4	e11500	e4700	e2800	e2200	e1900	e1800	e1700	e1600	e110000	10700	21500	27000
5	e11000	e4600	e2700	e2200	e1900	e1800	e1700	e1600	e127000	10700	25400	35600
6	e11500	e4500	e2700	e2200	e1900	e1800	e1600	e1600	e120000	10600	e31000	47600
7	e12000	e4400	e2700	e2200	e1900	e1800	e1600	e1600	114000	10900	e41000	49100
8	e12000	e4300	e2700	e2200	e1900	e1800	e1600	e1600	105000	11000	e56000	43300
9	e11500	e4200	e2600	e2200	e1900	e1800	e1600	e1600	96300	10100	e47000	38700
10	e11000	e4100	e2600	e2100	e1900	e1800	e1600	e1600	87600	9410	e37000	35500
11	e10500	e4000	e2600	e2100	e1900	e1700	e1600	e1600	77100	8850	e34000	33000
12	e10000	e3900	e2600	e2100	e1900	e1700	e1600	e1700	69000	8310	e38000	31000
13	e9500	e3800	e2500	e2100	e1900	e1700	e1600	e1700	63900	7720	e50000	28900
14	e9100	e3800	e2500	e2100	e1900	e1700	e1600	e1800	57700	7440	e60000	27200
15	e8700	e3700	e2500	e2100	e1900	e1700	e1600	e1900	51900	7510	e70000	26300
16	e8300	e3600	e2500	e2100	e1900	e1700	e1600	e1900	45000	8800	e66000	26000
17	e8000	e3500	e2500	e2100	e1900	e1700	e1600	e2000	37300	13500	e56000	25300
18	e7700	e3400	e2400	e2100	e1900	e1700	e1600	e2000	31800	15200	e42000	24300
19	e7400	e3400	e2400	e2000	e1800	e1700	e1600	e1900	28300	14700	e36000	23100
20	e7100	e3300	e2400	e2000	e1800	e1700	e1600	e1900	26000	14700	e32000	21700
21	e6900	e3300	e2400	e2000	e1800	e1700	e1600	e1900	23800	15100	e31000	21100
22	e6700	e3200	e2400	e2000	e1800	e1700	e1600	e2000	21600	14600	e29000	23400
23	e6500	e3200	e2400	e2000	e1800	e1700	e1600	e2100	19700	13100	e27000	27600
24	e6300	e3100	e2400	e2000	e1800	e1700	e1600	e2500	18700	11700	24500	29600
25	e6100	e3100	e2300	e2000	e1800	e1700	e1600	e3000	17500	11100	21900	30200
26	e5900	e3000	e2300	e2000	e1800	e1700	e1600	e3500	15700	11300	20600	30300
27	e5700	e3000	e2300	e2000	e1800	e1700	e1600	e4000	14200	11800	19200	28500
28	e5500	e3000	e2300	e2000	e1800	e1700	e1600	e5000	13100	14500	18200	25700
29	e5400	e2900	e2300	e2000	e1800	e1700	e1600	e7000	12400	18700	17300	e24000
30	e5300	e2900	e2300	e2000	---	e1700	e1600	e10000	12400	19600	16200	e23000
31	e5200	---	e2300	e2000	---	e1700	---	e15000	---	20200	15700	---
TOTAL	270300	112600	77900	64700	54000	53700	48500	90400	1542000	374240	1046900	860700
MEAN	8719	3753	2513	2087	1862	1732	1617	2916	51400	12070	33770	28690
MAX	13500	5000	2900	2200	1900	1800	1700	15000	127000	20200	70000	49100
MIN	5200	2900	2300	2000	1800	1700	1600	1600	12400	7440	15700	15300
AC-FT	536100	223300	154500	128300	107100	106500	96200	179300	3059000	742300	2077000	1707000
CFSM	.92	.39	.26	.22	.20	.18	.17	.31	5.40	1.27	3.55	3.01
IN.	1.06	.44	.30	.25	.21	.21	.19	.35	6.03	1.46	4.09	3.36

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2000, BY WATER YEAR (WY) #

MEAN	13810	5375	3405	2588	2132	1887	1851	24940	45590	21000	30960	28700
MAX	29870	11050	6097	3965	2868	2600	3703	48430	87010	40130	78210	78190
(WY)	1994	1994	1994	1994	1994	1980	1980	1979	1989	1980	1994	1986
MIN	5003	2750	1926	1606	1331	1116	1000	1635	19690	9032	9284	9542
(WY)	1997	1981	1982	1982	1984	1984	1984	1992	1997	1997	1990	1996

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1976 - 2000#	
ANNUAL TOTAL	4298520		4595940			
ANNUAL MEAN	11780		12560		15290	
HIGHEST ANNUAL MEAN					24960	1994
LOWEST ANNUAL MEAN					10020	1977
HIGHEST DAILY MEAN	70000	May 24	127000	Jun 5	155000	Jun 5 1992
LOWEST DAILY MEAN	a1900	Apr 15	b1600	Apr 6	c1000	Apr 1 1984
ANNUAL SEVEN-DAY MINIMUM	1900	Apr 15	1600	Apr 6	1000	Apr 1 1984
INSTANTANEOUS PEAK FLOW			e133000	Jun 5	161000	Jun 4 1992
INSTANTANEOUS PEAK STAGE			d60.24	Jun 5	f62.94	Jun 4 1992
INSTANTANEOUS PEAK STAGE					d64.26	Jun 1 1989
ANNUAL RUNOFF (AC-FT)	8526000		9116000		11070000	
ANNUAL RUNOFF (CFSM)	1.24		1.32		1.61	
ANNUAL RUNOFF (INCHES)	16.80		17.96		21.82	
10 PERCENT EXCEEDS	33100		32300		41300	
50 PERCENT EXCEEDS	3800		3100		5400	
90 PERCENT EXCEEDS	2000		1670		1700	

\# See Period of Record; partial years used in monthly statistics
a From Apr. 15 to May 9
b From Apr. 6 to May 11
c From Apr. 1 to May 14, 1984
d Backwater from ice
e Estimated
f From flood marks

15746991 IKALUKROK CREEK BELOW RED DOG CREEK NEAR KIVALINA

LOCATION.--Lat 68°02′51″, long 163°01′34″, in NE¼ NW¼ sec.33, T.31 N., R.19 W.(Delong Mountains A-2 quad) Northwest Arctic Borough, Hydrologic Unit 19050404, on left bank about 3.5 mi downstream from the mouth of Red Dog Creek, 2.5 mi upstream from the mouth of Dudd Creek, and 45 mi northeast of Kivalina.

DRAINAGE AREA.--98.6 mi^2.

PERIOD OF RECORD.--June 1995 to current year (no winter record).

GAGE.--Water-stage recorder. Elevation of gage is 650 ft above sea level, from topographic map. Prior to June 1, 1998 at site 1 mi upstream at different datum.

REMARKS.--Records good except for estimated daily discharges, which are poor. Runoff from 3.6 mi^2 is impounded in tailings ponds and released intermittently at a maximum rate of 25 ft^3/s. Meteor-burst telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, undetermined, July 25, 1996; gage height, 12.22 ft, at site and datum then in use.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, 2200 ft^3/s, August 5, gage height, 10.87 ft; minimum not determined, occurs during the winter. Maximum gage height 17.7 ft, flow over ice May 18, 2000.

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	e110	e9.0	e.20	---	---	---	---	---	e500	67	345	594
2	e105	e8.0	---	---	---	---	---	---	e600	159	443	1470
3	e100	e7.2	---	---	---	---	---	---	e700	126	522	1350
4	e95	e6.4	---	---	---	---	---	---	e900	128	1230	1350
5	e90	e5.8	---	---	---	---	---	---	e1000	122	1670	1800
6	e85	e5.2	---	---	---	---	---	---	e1200	105	1040	1180
7	e80	e4.6	---	---	---	---	---	---	e1100	94	866	808
8	e75	e4.1	---	---	---	---	---	---	1310	84	786	593
9	e70	e3.6	---	---	---	---	---	---	899	74	710	465
10	e65	e3.1	---	---	---	---	---	---	756	70	1180	378
11	e61	e2.7	---	---	---	---	---	---	714	66	894	312
12	e57	e2.4	---	---	---	---	---	---	538	61	936	261
13	e53	e2.1	---	---	---	---	---	---	492	56	1110	240
14	e49	e1.8	---	---	---	---	---	---	463	53	789	227
15	e45	e1.6	---	---	---	---	---	---	335	62	553	201
16	e42	e1.4	---	---	---	---	---	---	253	236	452	186
17	e39	e1.2	---	---	---	---	---	---	203	308	699	149
18	e36	e1.0	---	---	---	---	---	---	199	331	738	174
19	e33	e.90	---	---	---	---	---	---	154	213	576	156
20	e30	e.80	---	---	---	---	---	---	131	166	451	140
21	e27	e.70	---	---	---	---	---	---	131	137	365	158
22	e25	e.60	---	---	---	---	---	---	125	122	313	198
23	e23	e.50	---	---	---	---	---	---	110	121	273	144
24	e21	e.40	---	---	---	---	---	---	106	107	241	e130
25	e19	e.40	---	---	---	---	---	---	89	99	216	e120
26	e17	e.30	---	---	---	---	---	e50	88	112	197	e110
27	e15	e.30	---	---	---	---	---	e60	92	120	182	e100
28	e13	e.30	---	---	---	---	---	e75	81	111	188	e95
29	e12	e.20	---	---	---	---	---	e90	72	126	176	e90
30	e11	e.20	---	---	---	---	---	e110	63	176	175	e85
31	e10	---	---	---	---	---	---	e200	---	184	235	---
TOTAL	1513	76.80	---	---	---	---	---	---	13374	3996	18551	13264
MEAN	48.8	2.56	---	---	---	---	---	---	446	129	598	442
MAX	110	9.0	---	---	---	---	---	---	1310	331	1670	1800
MIN	10	.20	---	---	---	---	---	---	63	53	175	85
AC-FT	3000	152	---	---	---	---	---	---	26530	7930	36800	26310
CFSM	.49	.03	---	---	---	---	---	---	4.52	1.31	6.07	4.48
IN.	.57	.03	---	---	---	---	---	---	5.05	1.51	7.00	5.00

e Estimated

15798700 NUNAVAK CREEK NEAR BARROW

LOCATION.--Lat 71°15′35″, long 156°46′57″, in SE¼ sec. 18, T. 22 N., R. 18 W.(Barrow B-4 quad), North Slope Borough, Hydrologic Unit 19060202, 0.7 mi downstream from Emaiksoun Lake, 1.2 mi upstream from Nunavak Bay, and 2.3 mi south of Barrow Post Office.

DRAINAGE AREA.--2.79 mi^2, approximately.

PERIOD OF RECORD.--October 1971 to current year.

REVISED RECORDS.--WDR AK-76-1: 1972.

GAGE.--Water-stage recorder. Elevation of gage is 19 ft above sea level, from topographic map. Prior to May 29, 1982, at site 10 ft downstream at datum about 29.6 ft higher.

REMARKS.--Records poor.

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	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	4.9	.34	.32
2	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	4.7	.33	.28
3	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	4.5	.30	.27
4	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	7.3	.33	.26
5	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	8.9	.46	.24
6	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	8.2	.68	.23
7	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	9.9	.55	.23
8	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.10	11	.61	.22
9	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.40	11	.50	.20
10	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e1.0	11	.46	.20
11	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e6.0	9.9	14	.20
12	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e15	9.0	3.4	.20
13	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e7.5	8.2	1.4	.20
14	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e10	7.6	1.3	.19
15	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	51	6.8	.62	.18
16	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	52	6.5	.42	e.16
17	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	32	5.5	.38	e.15
18	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	22	6.0	.39	e.14
19	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	15	6.1	.39	.16
20	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	13	5.6	.39	.20
21	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	10	5.2	.40	e.26
22	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	8.5	4.8	.43	e.25
23	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	7.3	3.7	.40	e.23
24	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	6.2	2.7	.37	e.20
25	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	5.9	2.5	.35	e.18
26	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	6.2	1.9	.33	e.16
27	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	6.1	1.4	.32	e.14
28	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	6.3	.83	.29	e.12
29	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	5.7	.51	.37	e.10
30	e.00	e.00	e.00	e.00	---	e.00	e.00	e.00	5.0	.40	.49	e.00
31	e.00	---	e.00	e.00	---	e.00	---	e.00	---	.35	.41	---
TOTAL	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	292.20	176.89	31.41	5.87
MEAN	.000	.000	.000	.000	.000	.000	.000	.000	9.74	5.71	1.01	.20
MAX	.00	.00	.00	.00	.00	.00	.00	.00	52	11	14	.32
MIN	.00	.00	.00	.00	.00	.00	.00	.00	.00	.35	.29	.00
AC-FT	.00	.00	.00	.00	.00	.00	.00	.00	580	351	62	12
CFSM	.00	.00	.00	.00	.00	.00	.00	.00	3.49	2.05	.36	.07
IN.	.00	.00	.00	.00	.00	.00	.00	.00	3.90	2.36	.42	.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1972 - 2000, BY WATER YEAR (WY)

MEAN	.032	.000	.000	.000	.000	.000	.000	.20	8.46	2.06	.89	1.05
MAX	.22	.000	.000	.000	.000	.000	.000	3.55	17.3	9.93	6.79	8.34
(WY)	1980	1972	1972	1972	1972	1972	1972	1990	1999	1981	1994	1986
MIN	.000	.000	.000	.000	.000	.000	.000	.000	2.73	.091	.001	.000
(WY)	1972	1972	1972	1972	1972	1972	1972	1972	1992	1983	1983	1975

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1972 - 2000	
ANNUAL TOTAL	675.24		506.37			
ANNUAL MEAN	1.85		1.38		1.05	
HIGHEST ANNUAL MEAN					2.26	1989
LOWEST ANNUAL MEAN					.26	1992
HIGHEST DAILY MEAN	87	Jun 14	52	Jun 16	110	Jun 14 1994
LOWEST DAILY MEAN	a.00	Jan 1	b.00	Oct 1	c.00	Oct 1 1971
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 1	.00	Oct 1 1971
INSTANTANEOUS PEAK FLOW			68	Jun 15	131	Jun 10 1980
INSTANTANEOUS PEAK STAGE			32.13	Jun 15	f4.86	Jun 10 1980
INSTANTANEOUS PEAK STAGE			d32.92	Jun 10	d34.36	Jun 11 1994
ANNUAL RUNOFF (AC-FT)	1340		1000		761	
ANNUAL RUNOFF (CFSM)	.66		.50		.38	
ANNUAL RUNOFF (INCHES)	9.00		6.75		5.12	
10 PERCENT EXCEEDS	3.2		5.5		2.0	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

a From Jan. 1 to Jun. 7 and Sept. 30 to Dec 31
b From Oct. 1 to Jun. 7 and Sep. 30
c No flow during winter months and at times during summer months
d Backwater from snow and ice
e Estimated
f At site and datum then in use, flow over snow

15896000 KUPARUK RIVER NEAR DEADHORSE

LOCATION.--Lat 70°16′54″, long 148°57′35″, in NE¼ sec. 25, T. 11 N., R. 12 E. (Beechey Point B-4 quad), North Slope Borough, Hydrologic Unit 19060401, on right bank, 1.8 mi northeast of SE Eileen State No. 1, 2.1 mi south of Frontier Service City Camp, 10 mi upstream from mouth on Gwyder Bay, and 13 mi northwest of Deadhorse.

DRAINAGE AREA.--3,130 mi^2.

PERIOD OF RECORD.--June 1971 to current year.

GAGE.--Water-stage recorder. Datum of gage is at sea level (levels by private engineering firm).

REMARKS.--Records fair except for estimated daily discharges, which are poor. Winter low flow may be discontinuous as the flow probably varies significantly along the main stem of the river due to the formation of aufeis in the vicinity of springs. Flow may cease at other points. GOES satellite telemetry at station.

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	e1300	e70	e5.0	e.0	e.0	e.0	e.0	e.0	e.0	2960	1150	1580
2	e1100	e65	e4.0	e.0	e.0	e.0	e.0	e.0	e.0	2860	1030	1400
3	e1000	e55	e4.0	e.0	e.0	e.0	e.0	e.0	e.0	2840	978	1200
4	e950	e50	e4.0	e.0	e.0	e.0	e.0	e.0	e.0	3680	910	1060
5	e850	e45	e3.0	e.0	e.0	e.0	e.0	e.0	e.0	5540	872	952
6	e750	e43	e3.0	e.0	e.0	e.0	e.0	e.0	e.0	6840	809	903
7	e675	e40	e3.0	e.0	e.0	e.0	e.0	e.0	e.0	7130	767	843
8	e600	e37	e2.0	e.0	e.0	e.0	e.0	e.0	e1000	6380	732	785
9	e550	e33	e2.0	e.0	e.0	e.0	e.0	e.0	e10000	4820	694	732
10	e525	e30	e2.0	e.0	e.0	e.0	e.0	e.0	e25000	3740	688	687
11	e475	e27	e2.0	e.0	e.0	e.0	e.0	e.0	e40000	3050	712	656
12	e450	e25	e2.0	e.0	e.0	e.0	e.0	e.0	e60000	2520	591	634
13	e400	e23	e2.0	e.0	e.0	e.0	e.0	e.0	78000	2050	598	606
14	e375	e20	e1.0	e.0	e.0	e.0	e.0	e.0	58300	1750	637	580
15	e350	e18	e1.0	e.0	e.0	e.0	e.0	e.0	42400	1540	662	576
16	e325	e17	e1.0	e.0	e.0	e.0	e.0	e.0	29200	1360	698	554
17	e300	e16	e1.0	e.0	e.0	e.0	e.0	e.0	20500	1240	1310	537
18	e275	e14	e1.0	e.0	e.0	e.0	e.0	e.0	14700	1160	1890	e500
19	e250	e13	e1.0	e.0	e.0	e.0	e.0	e.0	11300	1070	1930	e480
20	e225	e12	e1.0	e.0	e.0	e.0	e.0	e.0	9090	1030	1700	e460
21	e200	e11	e.0	e.0	e.0	e.0	e.0	e.0	8080	965	1610	e450
22	e180	e10	e.0	e.0	e.0	e.0	e.0	e.0	7590	1050	2080	e440
23	e170	e9.0	e.0	e.0	e.0	e.0	e.0	e.0	7820	1620	2410	e430
24	e160	e9.0	e.0	e.0	e.0	e.0	e.0	e.0	6840	1530	3000	e420
25	e140	e8.0	e.0	e.0	e.0	e.0	e.0	e.0	5420	1410	3380	e410
26	e130	e7.0	e.0	e.0	e.0	e.0	e.0	e.0	4590	1290	3200	e400
27	e120	e7.0	e.0	e.0	e.0	e.0	e.0	e.0	4150	1240	2790	e380
28	e110	e6.0	e.0	e.0	e.0	e.0	e.0	e.0	3700	1280	2360	e360
29	e95	e6.0	e.0	e.0	e.0	e.0	e.0	e.0	3310	1400	2010	e340
30	e90	e5.0	e.0	e.0	---	e.0	e.0	e.0	3020	1370	1820	e320
31	e80	---	e.0	e.0	---	e.0	---	e.0	---	1240	1680	---
TOTAL	13200	731.0	45.0	0.0	0.0	0.0	0.0	0.0	454010.0	77955	45698	19675
MEAN	426	24.4	1.45	.000	.000	.000	.000	.000	15130	2515	1474	656
MAX	1300	70	5.0	.0	.0	.0	.0	.0	78000	7130	3380	1580
MIN	80	5.0	.0	.0	.0	.0	.0	.0	.0	965	591	320
MED	325	18	1.0	.0	.0	.0	.0	.0	7220	1540	1150	565
AC-FT	26180	1450	89	.00	.00	.00	.00	.00	900500	154600	90640	39030
CFSM	.14	.01	.00	.00	.00	.00	.00	.00	4.84	.80	.47	.21
IN.	.16	.01	.00	.00	.00	.00	.00	.00	5.40	.93	.54	.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2000, BY WATER YEAR (WY) #

MEAN	235	20.4	2.71	1.06	1.04	1.03	1.03	1583	10770	1100	1536	1521
MAX	692	174	24.3	10.0	10.0	10.0	10.0	8877	26360	3169	5095	4863
(WY)	1978	1973	1973	1972	1972	1972	1972	1996	1982	1999	1989	1997
MIN	10.0	.000	.000	.000	.000	.000	.000	.000	726	300	127	192
(WY)	1975	1977	1977	1976	1976	1975	1975	1975	1990	1971	1990	1974

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1971 - 2000#	
ANNUAL TOTAL	461245.0		611314.0			
ANNUAL MEAN	1264		1670		1416	
HIGHEST ANNUAL MEAN					4657	1971
LOWEST ANNUAL MEAN					658	1974
HIGHEST DAILY MEAN	19900	Jun 4	78000	Jun 13	100000	Jun 7 1978
LOWEST DAILY MEAN	a.0	Jan 10	b.0	Dec 21	c.0	Mar 1 1975
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 10	.00	Dec 21	.00	Mar 1 1975
INSTANTANEOUS PEAK FLOW			88100	Jun 13	118000	Jun 7 1978
INSTANTANEOUS PEAK STAGE			36.44	Jun 13	37.60	Jun 7 1978
INSTANTANEOUS PEAK STAGE			d36.60	Jun 12		
ANNUAL RUNOFF (AC-FT)	914900		1213000		1026000	
ANNUAL RUNOFF (CFSM)	.40		.53		.45	
ANNUAL RUNOFF (INCHES)	5.48		7.27		6.16	
10 PERCENT EXCEEDS	3440		2800		2730	
50 PERCENT EXCEEDS	11		2.5		10	
90 PERCENT EXCEEDS	.00		.00		.00	

\# See Period of Record, partial years used in monthly statistics
a From Jan 10 to May 22
b From Dec 21 to Jun 7
c No flow during winter months
d Backwater from snow and ice
e Estimated

15906000 SAGAVANIRKTOK RIVER TRIBUTARY NEAR PUMP STATION 3

LOCATION.--Lat 68°41′13″, long 149°05′42″, in SW¼ sec. 4, T. 9 S., R. 13 E. (Phillip Smith Mountains C-4 quad), Hydrologic Unit 19060402, on right bank 30 ft downstream from culvert, at mi 297.9 Dalton Highway, 14 mi south of Pump Station 3, and 16.5 mi upstream from mouth.

DRAINAGE AREA.--28.4 mi^2.

PERIOD OF RECORD.--Annual maximums, water years 1979-87. October 1987 to current year.(No winter record in water year 1989.)

REVISED RECORDS.--WDR AK-96-1:1992(M), 1994(M), 1995(M)

GAGE.--Water stage recorder. Elevation of gage is 2,475 ft above sea level, from topographic map. Crest-stage gage only, August 15, 1979 to September 12, 1987, 30 ft upstream of culvert at same datum.

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

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	e11	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e8.0	16	16	22
2	e10	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e10	23	13	18
3	e9.0	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e14	27	11	17
4	e8.0	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e20	41	9.6	15
5	e7.6	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e100	84	8.8	14
6	e7.0	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e300	98	8.4	12
7	e6.4	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e500	62	10	12
8	e5.6	e.00	e.00	e.00	e.00	e.00	e.00	e.00	425	42	12	12
9	e5.0	e.00	e.00	e.00	e.00	e.00	e.00	e.00	321	35	12	11
10	e4.4	e.00	e.00	e.00	e.00	e.00	e.00	e.00	197	28	11	10
11	e4.0	e.00	e.00	e.00	e.00	e.00	e.00	e.00	135	24	11	9.6
12	e3.6	e.00	e.00	e.00	e.00	e.00	e.00	e.00	93	20	9.8	9.5
13	e3.4	e.00	e.00	e.00	e.00	e.00	e.00	e.00	69	17	26	9.5
14	e3.0	e.00	e.00	e.00	e.00	e.00	e.00	e.00	51	14	67	9.8
15	e2.6	e.00	e.00	e.00	e.00	e.00	e.00	e.00	39	12	57	8.9
16	e2.4	e.00	e.00	e.00	e.00	e.00	e.00	e.00	37	10	64	e8.0
17	e2.2	e.00	e.00	e.00	e.00	e.00	e.00	e.00	35	10	49	e7.0
18	e1.8	e.00	e.00	e.00	e.00	e.00	e.00	e.00	30	14	49	e6.6
19	e1.6	e.00	e.00	e.00	e.00	e.00	e.00	e.00	37	24	82	e6.4
20	e1.4	e.00	e.00	e.00	e.00	e.00	e.00	e.00	47	30	79	e6.6
21	e1.2	e.00	e.00	e.00	e.00	e.00	e.00	e.00	47	27	75	e7.0
22	e1.0	e.00	e.00	e.00	e.00	e.00	e.00	e.00	43	25	74	e7.4
23	e.80	e.00	e.00	e.00	e.00	e.00	e.00	e.00	33	20	60	e6.8
24	e.60	e.00	e.00	e.00	e.00	e.00	e.00	e.00	26	18	50	e6.6
25	e.40	e.00	e.00	e.00	e.00	e.00	e.00	e.00	21	34	42	e6.4
26	e.20	e.00	e.00	e.00	e.00	e.00	e.00	e.00	17	40	37	e6.2
27	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	17	33	33	e5.8
28	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	23	27	39	e5.4
29	e.00	e.00	e.00	e.00	e.00	e.00	e.00	e.00	22	24	39	e5.2
30	e.00	e.00	e.00	e.00	---	e.00	e.00	e1.0	19	20	31	e5.0
31	e.00	---	e.00	e.00	---	e.00	---	e4.0	---	18	26	---
TOTAL	104.20	0.00	0.00	0.00	0.00	0.00	0.00	5.00	2736.0	917	1111.6	286.7
MEAN	3.36	.000	.000	.000	.000	.000	.000	.16	91.2	29.6	35.9	9.56
MAX	11	.00	.00	.00	.00	.00	.00	4.0	500	98	82	22
MIN	.00	.00	.00	.00	.00	.00	.00	.00	8.0	10	8.4	5.0
AC-FT	207	.00	.00	.00	.00	.00	.00	9.9	5430	1820	2200	569
CFSM	.12	.00	.00	.00	.00	.00	.00	.01	3.21	1.04	1.26	.34
IN.	.14	.00	.00	.00	.00	.00	.00	.01	3.58	1.20	1.46	.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2000, BY WATER YEAR (WY) #

MEAN	2.77	.000	.000	.000	.000	.000	.000	39.0	54.6	34.2	44.1	29.1
MAX	6.84	.000	.000	.000	.000	.000	.000	95.6	150	81.6	90.8	77.4
(WY)	1999	1988	1988	1988	1988	1988	1988	1995	1992	1999	1997	1997
MIN	.000	.000	.000	.000	.000	.000	.000	.16	10.4	8.19	3.17	9.56
(WY)	1988	1988	1988	1988	1988	1988	1988	2000	1988	1990	1990	2000

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1988 - 2000#	
ANNUAL TOTAL	7172.20		5160.50			
ANNUAL MEAN	19.6		14.1		17.3	
HIGHEST ANNUAL MEAN					27.9	1997
LOWEST ANNUAL MEAN					7.49	1988
HIGHEST DAILY MEAN	643	Jul 18	500	Jun 7	809	Jun 11 1992
LOWEST DAILY MEAN	a.00	Jan 1	b.00	Oct 27	c.00	Oct 1 1987
ANNUAL SEVEN-DAY MINIMUM	.00	Jan 1	.00	Oct 27	.00	Oct 1 1987
INSTANTANEOUS PEAK FLOW			644	Jun 6	d940	Jun 11 1992
INSTANTANEOUS PEAK STAGE			f20.89	Jun 6	f21.20	Jun 11 1992
ANNUAL RUNOFF (AC-FT)	14230		10240		12510	
ANNUAL RUNOFF (CFSM)	.69		.50		.61	
ANNUAL RUNOFF (INCHES)	9.39		6.76		8.26	
10 PERCENT EXCEEDS	58		37		49	
50 PERCENT EXCEEDS	.00		.00		.00	
90 PERCENT EXCEEDS	.00		.00		.00	

\# See Period of Record, partial years used in monthly statistics
a From Jan. 1 to May 7 and Oct.27 to Dec. 31
b From Oct. 27 to May 29
c No flow during winter months
d From rating extended above 450 ft^3/s on basis of slope-area measurement of peak discharge
e Estimated
f From floodmarks at recording gage

15908000 SAGAVANIRKTOK RIVER NEAR PUMP STATION 3

LOCATION.--Lat 69°00′54″, long 148°49′02″, in NW¼ sec. 16, T. 5 S., R. 14 E. (Sagavanirktok River A-4 quad), North Slope Borough, Hydrologic Unit 19060402, on left bank 600 ft east of Dalton Highway at mi 324.7, 6.0 mi upstream from Lupine River, and 15 mi north of Pump Station 3.

DRAINAGE AREA.--1,860 mi^2, approximately.

PERIOD OF RECORD.--September 1982 to current year.

GAGE.--Water-stage recorder. Elevation is 1,150 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Precipitation gage and air temperature recorder at station, daily values of precipitation and air temperature are available from the computer files of the Alaska District. GOES satellite telemetry at station.

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	e1100	e390	e150	e17	e2.0	e1.0	e1.0	e1.0	e1200	2820	6520	1810
2	e1040	e380	e140	e16	e2.0	e1.0	e1.0	e1.0	e1500	2870	4690	1790
3	e1000	e370	e140	e15	e2.0	e1.0	e1.0	e1.0	e1700	3770	3740	1930
4	e960	e360	e130	e14	e2.0	e1.0	e1.0	e1.0	e1900	4130	3340	1830
5	e920	e350	e120	e13	e2.0	e1.0	e1.0	e1.0	e2300	6300	3120	1700
6	e900	e340	e120	e12	e2.0	e1.0	e1.0	e1.0	e4000	9940	3060	1590
7	e860	e330	e110	e11	e2.0	e1.0	e1.0	e1.0	e12000	6520	3110	1530
8	e840	e320	e100	e10	e2.0	e1.0	e1.0	e1.0	e24000	5570	3290	1490
9	e820	e320	e96	e10	e2.0	e1.0	e1.0	e1.0	e25000	5730	3380	1440
10	e780	e310	e92	e9.0	e1.0	e1.0	e1.0	e1.0	e22000	5600	3130	1360
11	e740	e300	e86	e8.0	e1.0	e1.0	e1.0	e1.0	e18000	4840	2950	1310
12	e720	e300	e82	e8.0	e1.0	e1.0	e1.0	e1.0	e16000	4090	2710	1300
13	e700	e290	e76	e7.0	e1.0	e1.0	e1.0	e1.0	e14000	3370	3420	1290
14	e660	e280	e70	e7.0	e1.0	e1.0	e1.0	e1.0	e12000	2860	8170	1230
15	e640	e270	e66	e6.0	e1.0	e1.0	e1.0	e1.0	e11000	2550	5720	1220
16	e620	e270	e60	e6.0	e1.0	e1.0	e1.0	e1.0	e9600	2480	4720	1180
17	e600	e260	e56	e5.0	e1.0	e1.0	e1.0	e1.0	8340	2660	4060	1080
18	e590	e250	e52	e5.0	e1.0	e1.0	e1.0	e1.0	7560	4760	3580	e1000
19	e580	e250	e48	e5.0	e1.0	e1.0	e1.0	e1.0	7210	9020	4000	e960
20	e560	e240	e45	e4.0	e1.0	e1.0	e1.0	e1.0	9330	9100	3910	e920
21	e540	e230	e41	e4.0	e1.0	e1.0	e1.0	e1.0	9300	8740	3790	e960
22	e530	e220	e38	e4.0	e1.0	e1.0	e1.0	e1.0	7590	6550	3880	e980
23	e510	e210	e35	e4.0	e1.0	e1.0	e1.0	e1.0	6320	4850	3630	e920
24	e490	e200	e32	e3.0	e1.0	e1.0	e1.0	e1.0	5590	4190	3290	e880
25	e470	e190	e30	e3.0	e1.0	e1.0	e1.0	e1.0	5500	4000	2970	e860
26	e460	e190	e28	e3.0	e1.0	e1.0	e1.0	e1.0	5280	3990	2640	e820
27	e450	e180	e26	e3.0	e1.0	e1.0	e1.0	e1.0	4680	3400	2380	e780
28	e440	e170	e24	e3.0	e1.0	e1.0	e1.0	e3.0	4550	2950	2210	e760
29	e420	e160	e22	e3.0	e1.0	e1.0	e1.0	e30	3820	3180	2060	e740
30	e410	e160	e20	e2.0	---	e1.0	e1.0	e400	3060	3430	1950	e720
31	e400	---	e19	e2.0	---	e1.0	---	e800	---	5160	1870	---
TOTAL	20750	8090	2154	222.0	38.0	31.0	30.0	1260.0	264330	149420	111290	36380
MEAN	669	270	69.5	7.16	1.31	1.00	1.00	40.6	8811	4820	3590	1213
MAX	1100	390	150	17	2.0	1.0	1.0	800	25000	9940	8170	1930
MIN	400	160	19	2.0	1.0	1.0	1.0	1.0	1200	2480	1870	720
AC-FT	41160	16050	4270	440	75	61	60	2500	524300	296400	220700	72160
CFSM	.36	.14	.04	.00	.00	.00	.00	.02	4.74	2.59	1.93	.65
IN.	.42	.16	.04	.00	.00	.00	.00	.03	5.29	2.99	2.23	.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2000, BY WATER YEAR (WY) #

MEAN	580	207	71.5	31.3	18.0	14.2	16.1	1327	5941	4783	3890	1893
MAX	1172	358	233	180	150	128	117	3588	9737	7370	6252	3984
(WY)	1996	1996	1998	1998	1998	1998	1998	1993	1992	1995	1987	1997
MIN	279	76.0	4.03	.000	.000	.000	.000	4.77	3875	2839	1897	883
(WY)	1983	1984	1991	1983	1983	1983	1984	1986	1985	1991	1990	1983

SUMMARY STATISTICS	FOR 1999 CALENDAR YEAR		FOR 2000 WATER YEAR		WATER YEARS 1982 - 2000#	
ANNUAL TOTAL	726961		593995.0			
ANNUAL MEAN	1992		1623		1572	
HIGHEST ANNUAL MEAN					2071	1995
LOWEST ANNUAL MEAN					993	1983
HIGHEST DAILY MEAN	35300	Jul 18	25000	Jun 9	35300	Jul 18 1999
LOWEST DAILY MEAN	19	Dec 31	a1.0	Feb 10	b.00	Dec 25 1982
ANNUAL SEVEN-DAY MINIMUM	22	May 1	1.0	Feb 10	.00	Dec 25 1982
INSTANTANEOUS PEAK FLOW			c		42900	Aug 27 1992
INSTANTANEOUS PEAK STAGE					20.67	Aug 27 1992
INSTANTANEOUS PEAK STAGE			d25.68	Jun 8	d25.68	Jun 8 2000
ANNUAL RUNOFF (AC-FT)	1442000		1178000		1139000	
ANNUAL RUNOFF (CFSM)	1.07		.87		.85	
ANNUAL RUNOFF (INCHES)	14.54		11.88		11.49	
10 PERCENT EXCEEDS	6390		4780		4990	
50 PERCENT EXCEEDS	270		165		200	
90 PERCENT EXCEEDS	28		1.0		.00	

\# See Period of Record, partial years used in monthly statistics
a From Feb. 10 to May 27
b No flow during winter months most years
c Not determined, occurred during period of backwater from ice and snow, see highest daily mean
d From floodmarks on gage house, backwater from ice and snow
e Estimated

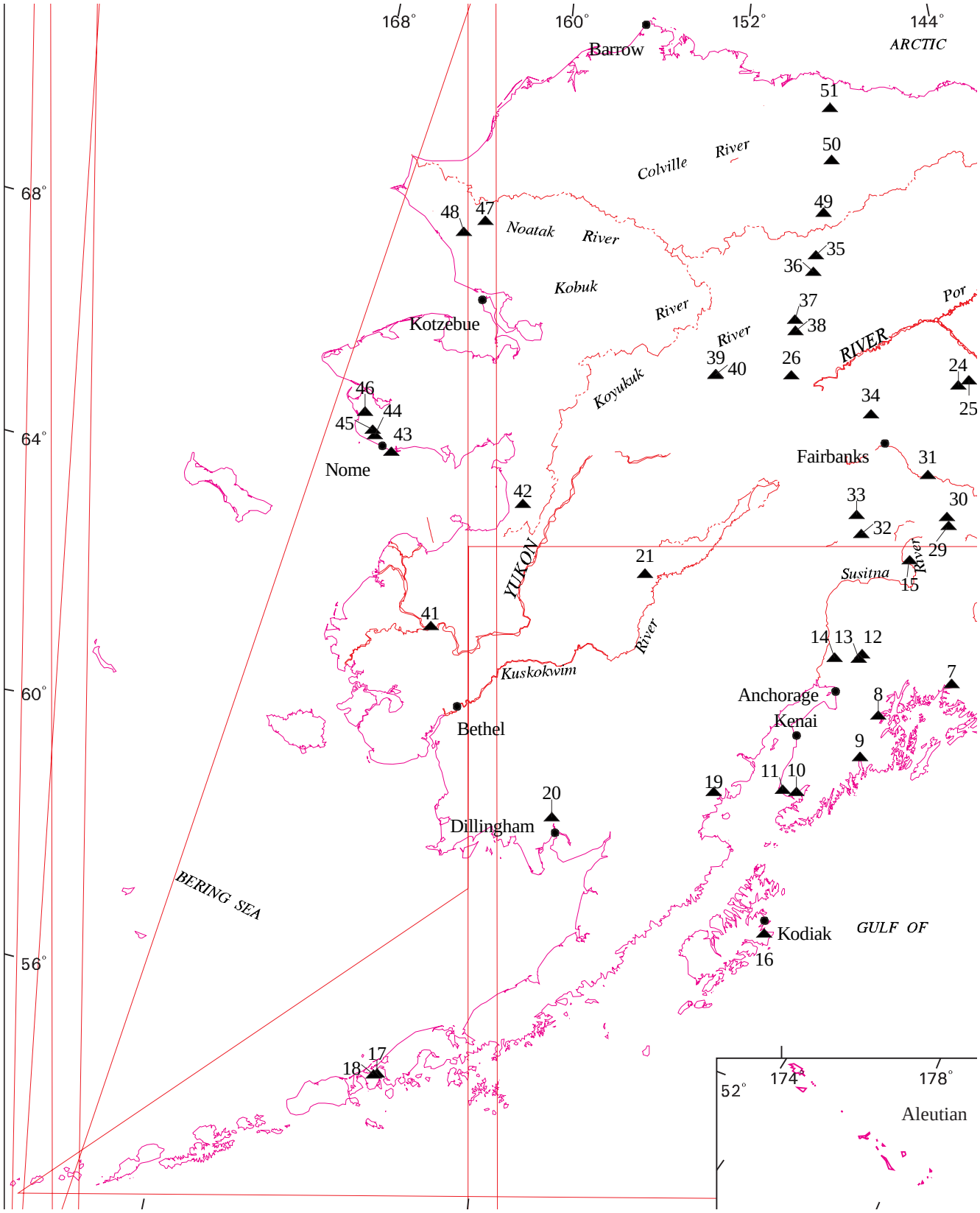
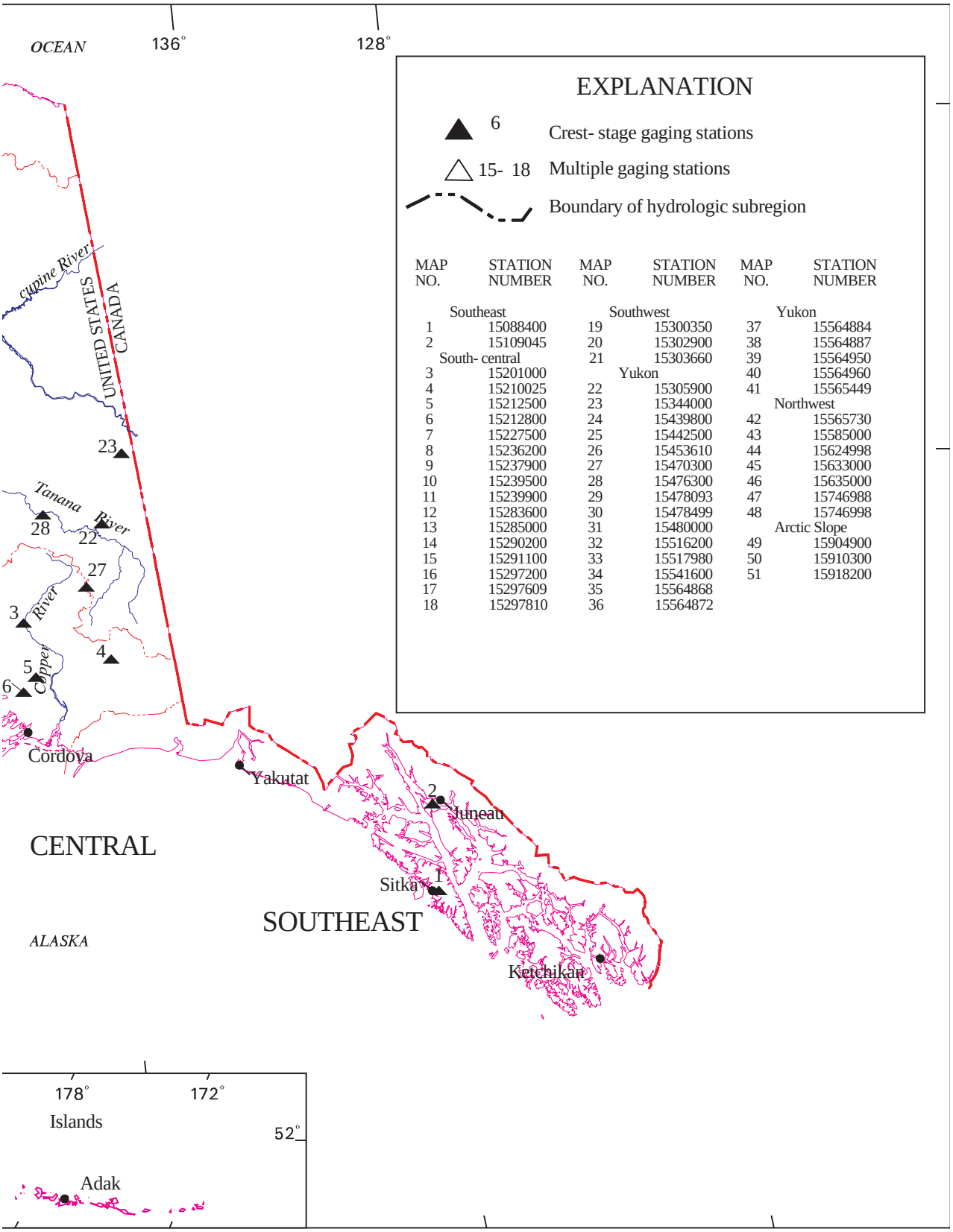


Figure 2. Locations of crest-stage partial-record stations



MAP NO.	STATION NUMBER	MAP NO.	STATION NUMBER	MAP NO.	STATION NUMBER
Southeast		Southwest		Yukon	
1	15088400	19	15300350	37	15564884
2	15109045	20	15302900	38	15564887
South- central		21	15303660	39	15564950
3	15201000	Yukon		40	15564960
4	15210025	22	15305900	41	15565449
5	15212500	23	15344000	Northwest	
6	15212800	24	15439800	42	15565730
7	15227500	25	15442500	43	15585000
8	15236200	26	15453610	44	15624998
9	15237900	27	15470300	45	15633000
10	15239500	28	15476300	46	15635000
11	15239900	29	15478093	47	15746988
12	15283600	30	15478499	48	15746998
13	15285000	31	15480000	Arctic Slope	
14	15290200	32	15516200	49	15904900
15	15291100	33	15517980	50	15910300
16	15297200	34	15541600	51	15918200
17	15297609	35	15564868		
18	15297810	36	15564872		

DISCHARGE AT PARTIAL-RECORD STATIONS AND MISCELLANEOUS SITES

As the number of streams on which streamflow information is likely to be desired far exceeds the number of stream-gaging stations feasible to operate at one time, the Geological Survey collects limited streamflow data at sites other than stream-gaging stations. When limited streamflow data are collected on a systematic basis over a period of years for use in hydrologic analyses, the site at which the data are collected is called a partial-record station. Data collected at these partial-record stations are usable in low-flow or flood-flow analyses, depending on the type of data collected. In addition, discharge measurements are made at other sites not included in the partial-record program. These measurements are generally made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for some special reason are called measurements at miscellaneous sites.

Records of partial-record stations are presented in the table of annual maximum stage and discharge at crest-stage stations. Discharge measurements made at miscellaneous sites for both low flow and high flow are given in a second table.

CREST-STAGE PARTIAL-RECORD STATIONS

The following table contains annual maximum discharge for crest-stage stations. A crest-stage gage is a device that will register the peak stage occurring between inspections of the gage. A stage-discharge relation for each gage is developed from discharge measurements made by indirect measurements of peak flow or by current meter. The date of the maximum discharge is not always certain, but is usually determined by comparison with nearby continuous-record stations, weather records, or local inquiry. The maximum discharge for each water year is given. The maximum discharge for the current water year and the maximum for the period of record are presented in the table below. However, at some stations the maximum discharge from spring runoff and from rainfall are shown by the symbols S/ and R/, respectively. Information on some lower floods may have been obtained, but is not published herein. The years given in the period of record represent water years for which the annual maximum has been determined.

Maximum discharge at crest-stage partial-record stations
[Footnotes at end of table on p. 295]

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			SOUTHEAST ALASKA					
Montana Creek near Auke Bay (15052800)	Lat 58°23′53″, long 134°36′34″, in SE¼ SW¼, sec. 13, T. 40 S., R. 65 E. (Juneau B-2 NW quad), City and Borough of Juneau, on right bank 30 ft upstream from bridge on Mendenhall Loop Road, 1.2 mi upstream from mouth at Mendenhall River, 1.5 mi northeast of Auke Bay, and 3.9 mi downstream from McGinnis Creek. Drainage area is 14.1 mi^2 (revised).	‡1966-75, ‡1984-87, 1996-2000	10-20-99	15.82	1,840	10-20-98	17.36	3,800
Cupola Peak Creek at Bear Cove near Sitka (15088400)	Lat 57°00′39", long 135°09’11", in NE¼ SE¼ SE¼ sec. 13, T. 56 S., R. 64 E. (Sitka A-4 quad), on Baranof Island, in the Tongass National Forest, on left bank 200 ft downstream from Green Lake road crossing, 400 ft upstream from mouth at south shore of Bear Cove in Silver Bay, and about 7.1 mi southeast of Sitka.	2000	9-04-00	10.77	n	9-04-00	10.77	n

Maximum discharge at crest-stage partial-record stations--Continued
[Footnotes at end of table on p. 295]

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			SOUTHEAST ALASKA—Continued					
North Fork Peterson Creek near Auke Bay (15109045)	Lat 58°16′49″, long 134°39′28″, in SE¼ SE¼ SW¼, sec. 29, T. 41 S., R. 66 E. (Juneau B-2 SW quad), City and Borough of Juneau, on Douglas Island, Tongass National Forest, on left bank, 300 ft upstream from mouth, 7.3 mi south of Auke Bay, and 9.5 mi west of Douglas. Drainage area is 0.45 mi^2.	1997-2000	11-01-99 and 12-28-99	23.38	160	11-01-99 and 12-28-99	23.38	160
			SOUTH-CENTRAL ALASKA					
Dry Creek near Glennallen (15201000)	Lat 62°08′49″, long 145°28′31″, in NE¼, sec. 7, T. 4 N., R.1 W. (Gulkana A-3 quad), on left bank 135 ft upstream from culvert at mi 119 Richardson Highway and 3.3 mi north of Glennallen. Drainage area is 11.4 mi^2.	1963-2000	6-05-00 9-29-00	<14.75 16.35	S/<44.6 R/301	5- -72	d25.88	546
McCarthy Creek at McCarthy (15210025)	Lat 61°25′54″, long 142°55′02″, in NW¼ NW¼ NE¼, sec. 19, T. 5 S., R. 14 E. (McCarthy B-6 quad), on right bank 1800 ft upstream from large boulder used for footbridge at trail crossing at McCarthy, 0.8 mi upstream from mouth. Drainage area is is 79.0 mi^2.	1994-2000	6-11-00 9-27-00	86.25 n	S/1,100 R/n	8-12-97 9-27-00	87.66 n	3,100 n
Boulder Creek near Tiekel (15212500)	Lat 61°20′08″, long 145°18′26″, in SE¼ SW¼ NW¼, sec. 19, T. 6 S., R. 1 E. (Valdez B-4 quad), on left downstream wingwall of bridge at mi 51.4 of old Richardson Highway, 0.2 mi downstream from culvert on present Richardson Highway, and 0.7 mi north of Tiekel. Drainage area is 9.80 mi^2.	1964-2000	6-24-00 9-27-00	10.88 10.45	S/679 R/332	8-07-81	11.72	1,330
Ptarmigan Creek Tributary near Valdez (15212800)	Lat 61°08′12″, long 145°44′32″, NW¼ NE¼, sec 34, T. 8 S., R. 3 W. (Valdez A-5 quad), on left bank 275 ft upstream from Richardson Highway, 21 mi east of Valdez. Drainage area is 0.72 mi^2.	1965-70 1996-2000	6-05-00 6-24-00 9-22-00	f77.84 77.49 77.24	u S/36 R/18	9- -65	d10.82	85

Maximum discharge at crest-stage partial-record stations--Continued
[Footnotes at end of table on p. 295]

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			SOUTH-CENTRAL ALASKA—Continued					
Mineral Creek near Valdez (15227500)	Lat 61°08′30″, long 146°21′42″, in SW¼ NE¼ SE¼, sec. 30, T. 8 S., R. 6 W. (Valdez A-7 quad), on right bank 120 ft upstream from bridge, 1.8 mi upstream from mouth, and 0.5 mi northwest of Valdez. Drainage area is 44.0 mi^2.	i1976-81, 1990-2000	2000 6-03-00 9-24-00	f11.62 11.54 <11.42	u S/1,620 R/<1,540	6- -76	di 90.81	5,570
Shakespeare Creek at Whittier (15236200)	Lat 60°46′35″, long 148°43′35″, in NE¼, sec. 22, T. 8 N., R. 4 E. (Seward D-5 quad), on upstream right wingwall of concrete bridge 0.5 mi upstream from mouth, and 1.8 mi west of the Alaska railroad terminal building at Whittier. Drainage area is 1.61 mi^2.	1970-80, 1984-2000	6-08-00 8-03-00	11.83 12.21	S/480 R/516	9-20-95	14.90	690
Glacier Creek at Bruno Road near Seward (15237900)	Lat 60°10′49″, long 149°22′46″, in NW¼, sec.13, T. 1 N., R. 1 W. (Seward A-7 NE quad), Kenai Peninsula Borough, on left bank 25 ft upstream from Bruno Road bridge, and 5.6 mi northeast of Seward. Drainage area is indeterminate.	1987-2000	5-08-00 5-27-00 8-04-00	11.82 7.55 7.82	u S/233 R/289	10-11-86	15.70	4,200
Fritz Creek near Homer (15239500)	Lat 59°42′30″, long 151°20′35″, in SW¼ SW¼, sec. 28, T. 5 S., R. 12 W. (Seldovia C-4 quad), Kenai Peninsula Borough, on right bank 25 ft downstream from culvert under East End Road, 8 mi east of Homer. Drainage area is 10.4 mi^2.	1963-85, ‡1986-92, 1993-2000	10-02-99 5-13-00	m10.47 10.67	R/51 S/79	10-22-80	d 18.53	852
Anchor River near Anchor Point (15239900)	Lat 59°44′50″, long 151°45′11″, in NE¼ sec. 13, T. 5 S., R. 15 W., (Seldovia C-5 quad), Kenai Peninsula Borough, on right bank at downstream side of bridge on Sterling Highway, 4.3 mi southeast of Anchor Point	‡1965-73 1974 ‡1978-86 1987 ‡1991-92 2000	10-18-99 4-17-00 5-13-00	4.63 f5.86 3.90	R/ 1,690 u S/ 1,060	11-29-83	d7.42	6,050

Maximum discharge at crest-stage partial-record stations--Continued
[Footnotes at end of table on p. 295]

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			SOUTH-CENTRAL ALASKA—Continued					
Premier Creek near Sutton (15283600)	Lat 61°42′40″, long 149°05′12″, in SE¼ NE¼, sec. 28, T. 19 N., R. 2 E. (Anchorage C-6 quad), on left bank 10 ft downstream from culvert under Buffalo Mine Road, 3.85 mi north from mi 53 Glenn Highway , and 7 mi northeast of Palmer. Drainage area is 3.38 mi^2.	1997-2000	5-13-97 8-13-97 5-18-98 9-25-98 6-17-99 8-13-99 12-22-99 4-28-00 9-22-00	6.70 7.09 6.90 6.92 6.92 6.94 f7.24 6.98 7.14	rS/13 rR/41 rS/24 rR/26 rS/26 rR/27 u S/30 R/47	9-22-00	7.14	47
Wasilla Creek near Palmer (15285000)	Lat 61°38′47″, long 149°11′45″, in SE¼ SW¼, sec. 13, T. 18 N., R. 1 E. (Anchorage C-6 quad), Matanuska-Susitna Borough, on right bank 20 ft downstream from culverts on Wasilla Fishhook Road, and 4.1 mi northeast of Palmer. Drainage area is 16.8 mi^2.	1971, 1976-2000	4-28-00 9-22-00	7.74 7.65	S/126 R/115	8-10-71	d17.74	700
Nancy Lake Tributary near Willow (15290200)	Lat 61°41′17″, long 149°57′58″, in SE¼ SE¼, sec. 34, T. 19 N., R. 4 W. (Tyonek C-1 quad), Matanuska-Susitna Borough, on left bank 50 ft upstream from culvert at Parks Highway, 0.3 mi upstream from mouth and 4.5 mi southeast of Willow. Drainage area is 8.00 mi^2.	1980, 1983-87, 1989-2000	4- -00 5-20-00 9-22-00	f12.68 11.17 <10.70	u S/100 R/<58	10-11-86	13.21	465
Raft Creek near Denali (15291100)	Lat 63°03’04", long 147°16’22", in SE1/4 sec. 36, T. 21 S., R. 2 E.(Healy A-1 quad), Matanuska-Susitna Bourough, on right bank 30 ft upstream from culvert at mi 68.9 Denali Highway, and 10.7 mi southeast of Denali. Drainage area is 4.33 mi2.	1963-2000	5- -00 6-24-00 7-14-00	f14.66 10.96 <10.68	u S/97 R/<71	6- 64	11.72	133
Myrtle Creek near Kodiak (15297200)	Lat 57°36′12″, long 152°24′12″, in NW¼ SW¼, sec. 6, T. 30 S., R. 19 W. (Kodiak C-2 quad), Kodiak Island Borough, on left bank 0.1 mi upstream from bridge, 0.3 mi upstream from mouth, and 13 mi south of Kodiak. Drainage area is 4.74 mi^2.	‡1963-86, 1987-2000	12-21-99 6-12-00 8-02-00	f5.12 4.30 4.37	u S/366 R/385	1-03-77	6.93	1,350

Maximum discharge at crest-stage partial-record stations--Continued
[Footnotes at end of table on p. 295]

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			SOUTHWEST ALASKA					
Chinkelyes Creek Tributary near Pedro Bay (15300350)	Lat 59°44′02″, long 153°48′40″, in SE¼ NE¼ NE¼, sec. 23, T.5 S., R.27 W. (Iliamna C-3 quad), on left bank 60 ft upstream from culvert, 8 mi east of Pile Bay, and 11 mi east of Pedro Bay. Drainage area is 0.40 mi^2.	1997-2000	6-07-00 8-02-00	12.06 11.96	S/65 R/59	9-18-99	13.14	144
Moody Creek at Aleknagik (15302900)	Lat 59°16′34″, long 158°35′42″, in SE¼, sec. 30, T. 10 S., R. 55 W. (Dillingham B-7 quad), on left bank 10 ft upstream from culvert entrance, and 500 ft upstream from mouth at Wood River at the Aleknagik Mission. Drainage area is 1.28 mi^2.	1969-73, 1975-85, 1988-2000	5-19-99 9-21-99 5-12-00 8-04-00	r18.10 r17.93 18.07 17.71	rS/23 rR/20 S/17 R/ 9	6-07-71	19.60	55
Gold Creek at Takotna (15303660)	Lat 62°59′20″, long 156°04′08″, in SE¼ SE¼, sec. 34, T. 34 N., R. 36 W. (Iditarod D-1 quad), at Takotna, on right bank, 350 ft upstream from bridge, and 400 ft upstream from mouth. Drainage area is 6.31 mi^2.	1987-2000	2000 5-20-00 9-22-00	f7.96 7.19 <6.85	u S/48 R/<21	5-16-99	8.30	131
			YUKON ALASKA					
Dennison Fork near Tetlin Junction (15305900)	Lat 63°25′24″, long 142°29′00″, in SW¼ sec. 14, T. 19 N., R. 15 E. (Tanacross B-3 quad), on left bank 7 ft downstream from culverts at mi 10.7 Taylor Highway, and 8.3 mi northeast of Tetlin Junction. Drainage area is 2.93 mi^2.	1964-2000	7-24-97 5-08-00 5-23-00 6-21-00	10.20 fj12.17 f10.37 10.37	rR/51 u eS/22 R/70	7- -64	d16.29	128
King Creek near Dome Creek (15344000)	Lat 64°23′38″, long 141°24′43″, in NE¼ SW¼ sec. 16, T. 6 S., R. 32 E. (Eagle B-1 quad), on left bank 1,100 ft upstream from culvert at mi 119.8 Taylor Highway, 0.4 mi upstream from mouth, 4.9 mi east of Dome Creek, and 28 mi south of Eagle. Drainage area is 5.87 mi^2.	1975-82, ‡1983-90, 1991-2000	5-24-00 6-15-00	15.16 16.49	S/37 R/143	6-13-97	j17.65	n

Maximum discharge at crest-stage partial-record stations--Continued
[Footnotes at end of table on p. 295]

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			YUKON ALASKA—Continued					
Boulder Creek near Central (15439800)	Lat 65°34′05″, long 144°53′13″, in NW¼ sec. 32, T. 9 N., R. 14 E. (Circle C-2 quad), on right bank 2,000 ft upstream from bridge at mi 125.4 Steese Highway, 0.7 mi upstream from mouth, and 2.3 mi west of Central. Drainage area is 31.3 mi^2.	1964-65, ‡1966-82, 1983, ‡1984-86, 1987-2000	5-12-00 6-02-00 8-26-00	f7.82 5.64 4.98	u S/194 R/110	6-25-89	10.01	1,460
Quartz Creek near Central (15442500)	Lat 65°37′09″, long 144°28′55″, in SW¼ sec. 7, T. 9 N., R. 16 E. (Circle C-1 quad), on left bank 10 ft upstream from culvert at mi 138.1 on Steese Highway, 1 mi upstream from mouth, 19 mi southwest of Circle, and 10 mi east of Central. Drainage area is 17.2 mi^2.	1967, 1969-79, 1989-2000	5-12 -00 6-02-00 7-13-00	f17.07 15.87 15.65	u S/54 R/37	7-15-95	dj23.08	700
Ray River Tributary near Stevens Village (15453610)	Lat 65°56′57″, long 149°54′55″, in SE¼ sec. 17, T. 13 N., R. 11 W. (Livengood D-6 quad), on right bank 10 ft upstream from culvert at mi 63.6 on the Dalton Highway, and 22 mi west of Stevens Village. Drainage area is 8.00 mi^2.	1977-2000	5-18-00 5-31-00 8-19-00	f19.72 17.59 j15.87	u S/82 R/10	5- -79	d 21.10	860
Little Jack Creek near Nabesna (15470300)	Lat 62°32′47″, long 143°19′30″, in SW¼ NW¼ SE¼, sec. 22, T. 9 N., R. 11 E. (Nabesna C-5 quad), on left bank 5 ft upstream from the culvert at mi 25.8 Nabesna Road, and 15.6 mi northeast of Nabesna (previously 0.2 mi upstream on left bank). Drainage area is 6.73 mi^2	1975-2000	7-24-97 8-11-98 6-06-00 6-29-00	r20.34 16.24 17.50 18.34	g245 gR/13 S/32 n	5- -79	d 21.10	860
Berry Creek near Dot Lake (15476300)	Lat 63°41′23″, long 144°21′47″, in NW¼ sec. 13, T. 22 N., R. 5 E. (Mt. Hayes C-1 quad), on left bank 100 ft upstream from former bridge site, at mi 1371.4 on abandoned section of Alaska Highway, 1.9 mi upstream from mouth, and 6.0 mi west of Dot Lake. Drainage area is 65.1 mi^2.	1964-71, ‡1972-81, 1982-2000	5-18-00 5-25-00 6-15-00	fj12.98 11.79 12.57	u S/411 R/775	7-19-64	15.49	2,800

Maximum discharge at crest-stage partial-record stations--Continued
[Footnotes at end of table on p. 295]

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			YUKON ALASKA—Continued					
Suzy Q Creek near Pump Station 10 (15478093)	Lat 63°29′43″, long 145°51′27″, in SW¼ sec. 29, T. 16 S., R. 10 E. (Mt. Hayes B-4 quad), on right bank 30 ft upstream from bridge at mi 224.8 on Richardson Highway, 0.1 mi upstream from mouth, and 6 mi north of Pump Station 10. Drainage area is 1.29 mi^2.	1987, 1989-2000	6-14-00 7-11-00	29.92 j32.06	S/31 R/396	7-14-87	33.83	1,070
Ruby Creek above Richardson Highway near Donnelly (15478499)	Lat 63°37′54″, long 145°52′14″, in NE¼ sec. 7, T. 15 S., R. 10 E. (Mt. Hayes C-4 quad), on left bank 0.2 mi upstream from Trans-Alaska Pipeline, 0.5 mi upstream from bridge at mi 234.8 on Richardson Highway, 2.2 mi upstream from mouth, and 2.3 mi south of Donnelly. Drainage area is 4.89 mi^2.	1987-2000	5-18-00 u 7-11-00	f18.10 u d16.23	u S/u R/860	7-14-87	16.95	1,660
Banner Creek at Richardson (15480000)	Lat 64°17′24″, long 146°20′56″, in SW¼ sec. 22, T. 7 S., R. 7 E. (Big Delta B-5 quad), on left bank 400 ft upstream from bridge at mi 295.4 Richardson Highway, 0.2 mi upstream from mouth, and 0.4 mi northwest of Richardson. Drainage area is 20.2 mi^2.	1964-2000	4-22-00 5-22-00 8-13-00	fj16.55 j13.75 14.51	u S/62 R/203	6-26-89	16.38	950
Slime Creek near Cantwell (15516200)	Lat 63°30’34", long 148°48’39", in SE¼ sec. 24, T. 16 S., R. 7 W. (Healy C-4 quad), on right bank 25 ft downstream from culverts at mi 219.9 George Parks Highway, and 9.1 mi northeast of Cantwell. Drainage area is 6.90 mi2.	1966-2000	a5-29 -00 6-08-00 7-14-00	f17.43 17.13 17.12	u S/95 R/94	7- -67	d14.52	685
Dragonfly Creek near Healy (15517980)	Lat 63°47′45″, long 148°55′19″, in SW¼ SE¼ SW¼ sec. 9, T. 13 S., R. 7 W. (Healy D-4 quad), on left bank at mi 242.6 George Parks Highway 100 ft upstream from highway bridge, and 6 mi southeast of Healy. Drainage area is 0.71 mi^2.	1990-2000	5-19-00 6-02-00 8-12-00	fj40.0 36.30 36.45	u S/13 R/24	7-12-90	d7.59	535

Maximum discharge at crest-stage partial-record stations--Continued
[Footnotes at end of table on p. 295]

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			YUKON ALASKA—Continued					
Globe Creek near Livengood (15541600)	Lat 65°17′08″, long 148°07′56″, in SE¼ sec. 3, T. 5 N., R 3 W. (Livengood B-3 Quad), 0.1 mi upstream from culvert at mi 37.6 Elliot Highway, 9 mi upstream from mouth, and 19 mi southeast of Livengood. Drainage area is 23.0 mi^2.	1964-2000	5-24-00 8-13-00	15.86 16.40	S/539 R/700	8-12-67	17.05	1,240
Snowden Creek near Wiseman (15564868)	Lat 67°44′20″, long 149°44°24″, in SW¼ sec. 26, T. 34 N., R. 10 W. (Chandalar C-6 quad), on right bank 0.25 mi upstream from culvert at mi 213.5 of the Dalton Highway,and 24.5 mi northeast of Wiseman. Drainage area is 16.7 mi^2.	1968, d1977-9, 1992-2000	5-17-00 6-9-00 7-11-00	f22.78 22.27 j22.54	u S/430 R/530	1968	u	1,200
Nugget Creek near Wiseman (15564872)	Lat 67°29′25″, long 149°52′20″, in NW¼ sec. 30, T. 31 N., R. 10 W. (Chandalar B-6 quad), on left bank 1,000 ft upstream from culvert at mi 195.6 Dalton Highway, and 8.7 mi northeast of Wiseman. Drainage area is 9.47 mi^2.	d1975-88, d1990-92, 1993-2000	5-13-99 7-17-99 5-31-00 6-09-00 7-11-00	38.83 39.91 fj39.44 38.93 38.44	rS/72 rR/410 u S/144 R/65	5-26-98	40.17	540
Prospect Creek near Prospect Camp (15564884)	Lat 66°46′56″, long 150°41′06″, in NW¼ sec. 31, T. 23 N., R. 14 W. (Bettles D-2 quad), on left bank 200 ft upstream from bridge at mi 135.2 on the Dalton Highway, 0.4 mi downstream from Trans-Alaska Pipeline crossing, 1.5 mi upstream from mouth, 2.1 mi south of Pump Station 5, and 1.5 mi southeast of Prospect Camp. Drainage area is 110 mi^2.	1968, 1975-2000	5-23-00 8-23-00	j7.6 j5.65	S/1,290 R/256	1968	d10.22	6,800
Bonanza Creek Tributary near Prospect Camp (15564887)	Lat 66°36′52″, long 150°41′24″, in SE¼ sec. 25, T. 21 N., R. 15 W. (Bettles C-2 quad), on right bank 0.3 mi downstream from culverts at mi 121 on the Dalton Highway, 3.4 mi upstream from mouth, 13.5 mi south of Pump Station 5, and 12.6 mi south of Prospect Camp. Drainage area is 11.7 mi^2.	1975-2000	5-31-00 8-19-00	18.44 17.90	S/118 R/88	5-15-93	19.89	290

Maximum discharge at crest-stage partial-record stations--Continued
[Footnotes at end of table on p. 295]

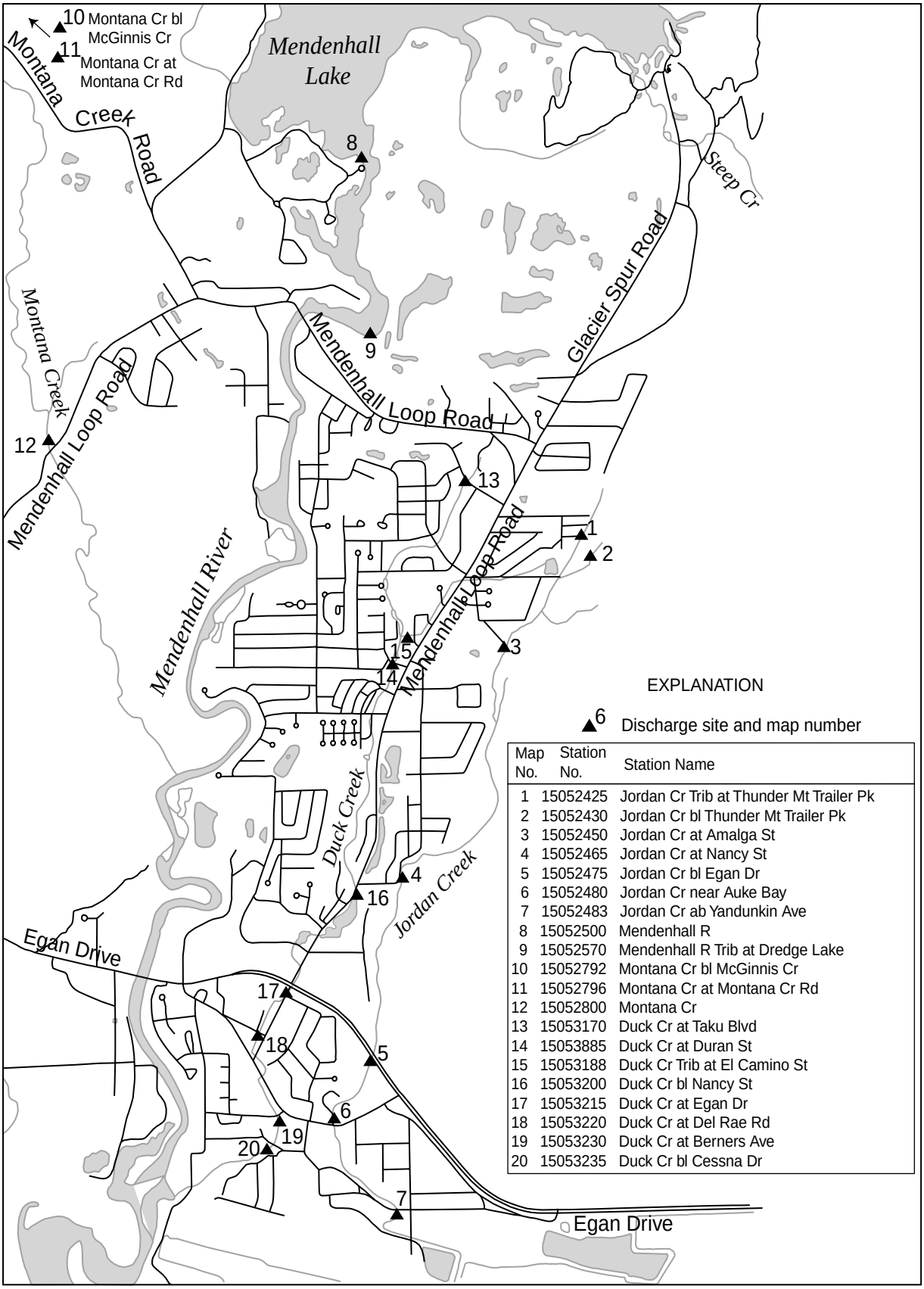
Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			YUKON ALASKA—Continued					
Indian River at Utopia (15564950)	Lat 65°59′49″, long 153°41′V B31″, in NW¼ sec. 19, T. 7 N., R. 25 E. (Melozitna D-2 quad), on right bank, 200 ft downstream of bridge at mi 0.2 on road to Indian Mountain. Drainage area is 38.8 mi^2.	1998-2000	8-20-98 5-13-99 7-20-99 5-17-00 5-31-00 7-21-00	gj 18.74 gj 17.71 g 18.31 fj 19.64 18.00 18.32	gR/828 gS/426 g R/644 u S/526 R/648	8-20-98	18.74	828
			NORTHWEST ALASKA					
Chiroskey River near Unalakleet (15565730)	Lat 63°55’06", long 160°18’58", in NW ¼ sec. 19, T. 18 S., R. 8 W. (Unalakleet D-3 quad), on left bank 3/4 mile upstream from mouth, 14 miles northeast of Unalakleet.	1998-2000	5- -99 8-01-99 5- -00 6-02-00 9-07-00	fg48.30 g46.98 f47.55 45.56 47.03	u R/n u S/n R/n	5- -99	f48.30	u
Goldengate Creek near Nome (15585000)	Lat 64°26′03″, long 165°02′46″, in SW¼, sec. 15, T. 12 S., R. 32 W. (Nome B-1 quad), on right bank 500 ft upstream from culvert on Nome-Council Road, and 11 mi southeast of Nome. Drainage area is 1.55 mi^2.	1965, 1977-84, 1986-2000	a5-14-00 a5-16-00 9-05-00	f 13.36 11.86 10.96	u S/54 R/12	9-08-65	d11.70	63
Arctic Creek above Tributary near Nome (15624998)	Lat 64°38′16″, long 165°42′42″, in NE¼, sec. 8, T. 10 S., R. 35 W. (Nome C-2 quad), on right bank 300 ft upstream from culvert on Nome-Teller Road, 2 mi upstream from mouth, and 13 mi northwest of Nome. Drainage area is 1.13 mi^2.	1975, 1979-2000	6-12-00 6-18-00 9-05-00	f 19.00 18.00 17.93	u S/26 R/21	8-20-98	19.06	182
Washington Creek near Nome (15633000)	Lat 64°42′52″, long 165°49′13″, in NW¼, sec. 14, T. 9 S., R. 35 W. (Nome C-2 quad), on left bank, 400 ft upstream from culvert on Nome-Teller Road, and 19 mi northwest of Nome. Drainage area is 6.34 mi^2.	1964-2000	5-16-00 6-03-00 8-01-00	f 21.02 f 19.84 20.07	u S/u R/57	7-10-75	d19.35	620
Eldorado Creek near Teller (15635000)	Lat 64°57’38″, long 166°11’59″, in NE¼ NE¼, sec. 20, T. 6 S., R. 37 W. (Nome D-3 quad), on right bank 30 ft downstream from bridge on Nome-Teller Road, at mi 46.3 of the Nome-Teller Road, 0.5 mi upstream from mouth at Tisuk River, and 21 mi south of Teller. Drainage area is 5.83 mi^2.	1986-87, ‡1988-90, 1991, ‡1992-98, 1999-2000	a 5-16 -00 6-12-00 8-01-00	9.02 8.91 8.66	u S/279 R/160	9-04-86	9.42	600

Maximum discharge at crest-stage partial-record stations--Continued
[Footnotes at end of table on p. 295]

Station name and number	Location and drainage area	Period of record	Water year 2000 maximum			Period of record maximum		
			Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
			NORTHWEST ALASKA—Continued					
North Fork Red Dog Creek near Kivalina (15746988)	Lat 68°05′03″, long 162°52′52″, in NW¼ SW¼ sec. 18, T. 31 N., R. 18 W. (DeLong Mts. A-2 quad), on left bank 500 ft upstream from mouth, 1.1 mi northwest of Red Dog Mine mill site, 36 mi north of Noatak, and 50 mi northeast of Kivalina. Cominco Station 12. Drainage area is 15.9 mi^2.	‡1991-94, 1995-2000	5-18-00 6-01-00 9-5-00	fj6.98 f6.50 5.35	u S/320 R/484	8-17-94	6.03	900
Tutak Creek near Kivalina (15746998)	Lat 67°52′28″, long 163°40′14″, in NW¼ NE¼ sec. 34, T. 29 N., R. 22 W. (Noatak D-4 quad), on left bank, 1,000 ft upstream from mouth, 25 mi northeast of Kivalina, and 28 mi northwest of Noatak. Drainage area is 119 mi^2.	1992-2000	6-1-00 6-8-00 9-4-00	f14.57 13.49 13.79	u S/1690 R/1930	6-15-92	15.00	3,100
			ARCTIC SLOPE ALASKA					
Atigun River Tributary near Pump Station 4 (15904900)	Lat 68°22′25″, long 149°18′48″, in NE¼ SE¼ sec. 28, T. 12 S., R. 12 E. (Phillip Smith Mt. B-4 quad), on right bank 0.2 mi upstream from bridge at mi 265 on Dalton Highway, 0.9 mi upstream from mouth, and 4 mi south of Pump Station 4. Drainage area is 32.6 mi^2.	1976, ‡1977-86, 1987-2000	6-09-00 7-19-00	a13.3 a12.5	S/500 R/285	7-17-99	15.51	1,650
Sagavanirktok River Tributary near Deadhorse (15918200)	Lat 69°57′14″, long 148°43′48″, in NW¼ NE¼ sec. 19, T. 1 N., R. 14 E. (Sagavanirktok D-3 quad), on right bank 6 ft upstream from culvert at mi 386.2 on the Dalton Highway, 0.4 mi upstream from mouth, and 23 mi south of Deadhorse. Drainage area is 12 mi^2, approximately.	1986, 1988-2000	6-10-00 7-05-00	11.70 6.89	S/128 R/11	5-24-96	j11.8	142

FOOTNOTES

‡ Operated as a continuous record station
< Less than
> Greater than
R/ Rainfall
S/ Spring runoff
a Approximately
b Maximum oberved; channel breach upstream; some flow diverted into Bear Lake
c Corrected
d At different site or datum
e Estimated
f Ice affected
g Not previously published
i Data collected by Dept. of Transportation and Public Facilities
j From floodmarks
m Maximum observed
n To be determined
p Peak discharge
r Revised
u Unknown
v After Bear Creek Diversion into Glacier Creek
w Glacier lake breakout
x August 23, 1966 and August 24, 1974



Map No.	Station No.	Station Name
1	15052425	Jordan Cr Trib at Thunder Mt Trailer Pk
2	15052430	Jordan Cr bl Thunder Mt Trailer Pk
3	15052450	Jordan Cr at Amalga St
4	15052465	Jordan Cr at Nancy St
5	15052475	Jordan Cr bl Egan Dr
6	15052480	Jordan Cr near Auke Bay
7	15052483	Jordan Cr ab Yandunkin Ave
8	15052500	Mendenhall R
9	15052570	Mendenhall R Trib at Dredge Lake
10	15052792	Montana Cr bl McGinnis Cr
11	15052796	Montana Cr at Montana Cr Rd
12	15052800	Montana Cr
13	15053170	Duck Cr at Taku Blvd
14	15053885	Duck Cr at Duran St
15	15053188	Duck Cr Trib at El Camino St
16	15053200	Duck Cr bl Nancy St
17	15053215	Duck Cr at Egan Dr
18	15053220	Duck Cr at Del Rae Rd
19	15053230	Duck Cr at Berners Ave
20	15053235	Duck Cr bl Cessna Dr

Locations of discharge sites in the Mendenhall Valley.

DISCHARGE AT MISCELLANEOUS SITES

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTHEAST ALASKA				
15049900 Gold Creek near Juneau	Gastineau Channel	Lat 58°18′26″, long 134°23′12″, in NW¼ NE¼ sec. 24, T. 41 S., R. 67 E. (Juneau B-2 SE quad), City and Borough of Juneau, at Old Ebner Dam site, at head of Last Chance Basin, 0.6 mi upstream from Basin Road bridge, and 1.1 mi east of Juneau.	8.41	(‡)1984-97, 1998-99	+10-21-99 +11-16-99 +12-21-99 +1-27-00 +2-25-00 +4-17-00 +5-22-00 +6-14-00 +7-17-00 +9-14-00 +9-27-00	305 40 52 36 9.5 15 299 373 253 371 78
15052425 Jordan Creek Tributary at Thunder Mt. Trailer Park near Auke Bay	Jordan Creek	Lat 58°23′33", long 134°33′15", in NW¼ NE¼ NW¼ sec. 20, T. 40 S., R. 66 E. (Juneau B-2 NW quad), City and Borough of Juneau, at downstream end of Thunder Mt. Trailer Park, 15 ft upstream from mouth, 3.4 mi northeast of Auke Bay, and 8.7 mi northwest of Juneau.	--	1999	3-10-00	no flow
15052430 Jordan Creek below Thunder Mt. Trailer Park near Auke Bay	Gastineau Channel	Lat 58°23′31", long 134°33′15", in SW¼ NE¼ NW¼ sec. 20, T. 40 S., R. 66 E. (Juneau B-2 NW quad), City and Borough of Juneau, at downstream end of Thunder Mt. Trailer Park, 3.4 mi upstream from mouth, 3.4 mi northeast of Auke Bay, and 8.7 mi northwest of Juneau.	0.76	1998-99	11-01-99 1-20-00 3-10-00	21 0.23 b no flow
15052450 Jordan Creek at Amalga Street near Auke Bay	Gastineau Channel	Lat 58°23′14″, long 134°33′40″, in SW¼ SW¼ NW¼ sec. 20, T. 40 S., R. 66 E. (Juneau B-2 NW quad), City and Borough of Juneau, at Amalga Street Bridge, 3.0 mi upstream from mouth, 3.1 mi east of Auke Bay, and 8.5 mi northwest of Juneau.	1.06	1997-99	+12-27-99 +12-28-99 1-20-00 + 3-10-00 3-14-00	63 e59 1.4 0.16 0.06
15052465 Jordan Creek at Nancy Street near Auke Bay	Gastineau Channel	Lat 58°22′32", long 134°34′21", in NE¼ SW¼ NE¼, sec. 30, T. 40 S., R. 66 E. (Juneau B-2 SW quad), City and Borough of Juneau, 0.2 mi east of intersection of Mendenhall Loop Road and Nancy Street, 2 mi upstream from mouth, 3.1 mi east of Auke Bay, and 8.5 mi northwest of Juneau.	2.26	1999	12-07-99 1-08-00 +3-10-00 3-14-00	4.3 9.3 0.69 0.50
15052475 Jordan Creek below Egan Drive near Auke Bay	Gastineau Channel	Lat 58°21′59″, long 134°34′34″, in SW¼ SW¼ SE¼ sec. 30, T. 40 S., R. 66 E. (Juneau B-2 SW quad), City and Borough of Juneau, at footbridge, 50 ft downstream from Egan Drive, 0.4 mi southeast of intersection of Egan Drive and Mendenhall Loop Road and 3.0 mi east of Auke Bay Post Office. Currently operated as a continuous-record station.	r 2.60	h1984,88, h1989, h1995-96, (‡)1997-99	11-01-99 12-27-99 +12-28-99 1-13-00 1-20-00 1-21-00 +3-10-00 3-14-00 5-25-00 8-08-00	67 138 e130 2.2 2.0 1.6 0.58 0.27 7.0 5.3
15052480 Jordan Creek near Auke Bay	Gastineau Channel	Lat 58°21′47", long 134°34′47", in SE¼ NE¼ NW¼, sec. 31, T. 40 S., R. 66 E. (Juneau B-2 SW quad), City and Borough of Juneau, at Old Glacier Highway bridge, 0.9 mi upstream from mouth, and 3.0 mi southeast of Auke Bay.	r 2.67	1953-54, 1960, 1963-65, 1967-68, 1997, 1999	1-20-00 +3-10-00 3-14-00	1.3 0.07 b no flow

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTHEAST ALASKA—Continued				
15052483 Jordan Creek above Yandunkin Avenue near Auke Bay	Gastineau Channel	Lat 58°21′31″, long 134°34′23″, in SE¼ SW¼ NE¼ sec. 31, T. 40 S., R. 66 E. (Juneau B-2 SW quad), City and Borough of Juneau, at footbridge about 100 ft upstream from Yandunkin Avenue, 0.5 mi upstream from mouth, and 3.4 mi southeast of Auke Bay.	--	1997-99	1-20-00 3-10-00 3-14-00	0.73 b no flow d no flow
15052570 Mendenhall River Tributary at Dredge Lake near Auke Bay	Mendenhall River	Lat 58°24′13", long 134°34′14", in NW¼ SW¼ NE¼ sec. 18, T. 40 S., R. 66 E. (Juneau B-2 NW quad), City and Borough of Juneau, in Tongass National Forest, at mouth on left bank of Mendenhall River, 0.25 mi upstream from Back Loop Road Bridge, about 0.7 mi downstream from Mendenhall Lake outlet, and 3.0 mi northeast of Auke Bay.	- -	- -	3-15-00	0.16
15052792 Montana Creek below McGinnis Creek near Auke Bay	Mendenhall River	Lat 58°26′11", long 134°38′17", in NE¼ NW¼ sec. 2, T. 40 S., R. 65 E. (Juneau B-2 NW quad), City and Borough of Juneau, Tongass National Forest, 0.4 mi downstream from McGinnis Creek, and 3.2 mi north of Auke Bay.	a11.5	1985, 1987	5-24-00	95
15052796 Montana Creek at Montana Creek Road near Auke Bay	Mendenhall River	Lat 58°25′32", long 134°37′46", in NW¼ SW¼ SE¼ sec. 2, T. 40 S., R. 65 E. (Juneau B-2 NW quad), City and Borough of Juneau, Tongass National Forest, at footbridge at end of Montana Creek Road, 4.1 mi upstream from mouth, and 2.85 mi north of Auke Bay.	--	1999	10-19-98 4-18-00 9-21-00	g 1300 43 92
15052800 Montana Creek near Auke Bay	Mendenhall River	Lat 58°23′53″, long 134°36′34″, in SE¼ SW¼ sec.13, T. 40 S., R. 65 E. (Juneau B-2 quad), City and Borough of Juneau, at Mendenhall Loop Road bridge, 1.2 mi upstream from mouth, 1.5 mi northeast of Auke Bay, and 3.9 mi downstream from McGinnis Creek.	r 14.1	(‡)1965-75, (‡)1983-87, 1995, (†)1997-99	5-24-00	108
15053170 Duck Creek at Taku Boulevard near Auke Bay	Mendenhall River	Lat 58°23′46″, long 134°33′56″, in SE¼ SE¼ sec. 18, T. 40 S., R. 66 E. (Juneau B-2 NW quad), City and Borough of Juneau, 3.1 mi upstream from mouth, 3.1 mi east of Auke Bay, and 8 mi northwest of Juneau.	0.49	1988, 1993-99	3-14-00	0.06
15053185 Duck Creek at Duran Street near Auke Bay	Mendenhall River	Lat 58°23′24″, long 134°34′25″, in NE¼ SW¼ NE¼ sec. 19, T. 40 S., R. 66 E. (Juneau B-2 NW quad), City and Borough of Juneau, 2.9 mi upstream from mouth, 3.0 mi east of Auke Bay, and 8 mi northwest of Juneau.	0.78	- -	3-14-00	0.47
15053188 Duck Creek Tributary at El Camino Street near Auke Bay	Mendenhall River	Lat 58°23′20″, long 134°34′11″, in SW¼ SE¼ NE¼ sec. 19, T. 40 S., R. 66 E. (Juneau B-2 NW quad), City and Borough of Juneau, 3.0 mi upstream from mouth, 3.0 mi east of Auke Bay, and 8 mi northwest of Juneau.	0.04	- -	3-14-00	no flow
15053200 Duck Creek below Nancy Street near Auke Bay	Mendenhall River	Lat 58°22′31″, long 134°34′38″, in SW¼ NE¼ sec. 30, T.40 S., R. 66 E. (Juneau B-2 NW quad), City and Borough of Juneau, 50 ft south of intersection of Nancy Street and Mendenhall Loop Road, 0.4 mi north of intersection of Egan Drive and Mendenhall Loop Road, 1.4 mi upstream from mouth, 2.7 mi southeast of Auke Bay, and 8 mi northwest of Juneau. Currently operated as a continuous-record station.	1.30	(‡)1994-99	11-01-99 1-21-00 3-14-00 5-25-00 8-09-00	49 1.7 0.43 3.7 5.4

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTHEAST ALASKA—Continued				
15053215 Duck Creek at Egan Drive near Auke Bay	Mendenhall River	Lat 58°22′13″, long 134°35′06″, in SE¼ NW¼ SW¼ sec. 30, T. 40 S., R. 66 E. (Juneau B-2 SW quad), City and Borough of Juneau, 1.0 mi upstream from mouth, 2.6 mi southeast of Auke Bay, and 8 mi northwest of Juneau.	1.44	1997,1998	3-14-00	no flow
15053220 Duck Creek at Del-rae Road near Auke Bay	Mendenhall River	Lat 58°22′04″, long 134°35′16″, in SW¼ SW¼ sec. 30, T. 40 S., R. 66 E. (Juneau B-2 SW quad), City and Borough of Juneau, 0.8 mi upstream from mouth, 2.6 mi southeast of Auke Bay, and 8 mi northwest of Juneau.	1.49	1988,89 1993-99	3-14-00	no flow
15053230 Duck Creek at Berners Avenue near Auke Bay	Mendenhall River	Lat 58°21′50″, long 134°35′08″, in NW¼ NW¼ sec. 31, T. 40 S., R. 66 E. (Juneau B-2 SW quad), City and Borough of Juneau, 0.5 mi upstream from mouth, 2.8 mi southeast of Auke Bay, and 8 mi northwest of Juneau.	1.52	1994-99	3-14-00	no flow
15053235 Duck Creek below Cessna Drive near Auke Bay	Mendenhall River	Lat 58°21′43″, long 134°35′12″, in NW¼ NW¼ sec. 31, T. 40 S., R. 66 E. (Juneau B-2 SW quad), City and Borough of Juneau, at the corner of Alex Holden Way and Cessna Drive, 0.4 mi upstream from mouth, 2.9 mi southeast of Auke Bay, and 8 mi northwest of Juneau.	1.66	1997-99	3-10-00	no flow
15081615 Halfmile Creek below Diversion near Klawock	Klawock Lake	Lat 55°33′11", long 133°01′29", in NW¼ NE¼ SE¼ sec. 12, T. 73 S., R. 81 E. (Craig C-4 quad), on Prince of Wales Island, in Tongass National Forest, 200 ft downstream from City diversion, 0.5 mi upstream from mouth, and 2.9 mi east of Klawock.	4.96	- -	9-12-00	30
15081616 Halfmile Creek below Highway near Klawock	Klawock Lake	Lat 55°32′59″, long 133°01′44″, in SW¼ SW¼ SE¼, sec12, T. 73 S., R 81 E.(Craig C-4 quad) On Prince of Whales Island, in Tongas National Forest, at Hollis Highway crossing, about 800 ft upstream from mouth, and 2.7 mi east of Klawock.	5.26	- -	9-12-00	30
15081608 Threemile Creek Tributary near Klawock	Threemile Creek	Lat 55°32′06", long 132°57′12", in NW¼ SW¼ SE¼ sec. 16, T. 73 S., R. 82 E. (Craig C-2 quad), on Prince of Wales Island, in Tongass National Forest, 75 ft upstream from mouth at right bank of Threemile Creek, about 150 ft upstream from Threemile Creek gage, and 5.2 mi east of the city of Klawock.	1.56	1999	10-14-99 12-15-99 2-29-00 5-09-00 7-21-00 9-13-00	62 20 18 18 37 23
15081611 Threemile Creek below Highway near Klawock	Klawock Lake	Lat 55°31′54", long 132°59′05", in NE¼ NE¼ NW¼ sec. 20, T. 73 S., R. 82 E. (Craig C-3 quad), on Prince of Wales Island, in Tongass National Forest, at Hollis Highway crossing, 3,000 ft upstream from mouth, and 4.0 mi east of Klawock.	8.05	- -	9-13-00	53
15087690 Indian River near Sitka	Crescent Bay	Lat 57°04′01”, long 135°17′42”, in SW¼ SE¼ sec. 30, T. 55 S., R. 64 E., (Sitka A-4 quad) Greater Sitka Borough, on Baranof Island, in Tongass National Forest, on right bank, 2 mi upstream from mouth, and 1.4 mi northeast of Sitka. Currently operated as a continuous-record station.	10.1	(‡)1980-93, (‡) 1998-99	12-9-99 12-28-99 2-16-00 5-10-00 7-12-00 9-19-00	39 512 26 80 55 135

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTHEAST ALASKA—Continued				
15087695 Indian River above CBS Pumphouse near Sitka	Crescent Bay	Lat 57°03′34", long 135°18′15", in SE¼ SW¼ NW¼ sec. 31, T. 55 S., R. 64 E. (Sitka A-4 quad), Greater Sitka Borough, on Baranof Island, 50 ft upstream from City and Borough of Sitka diversion to pump pond, 200 ft northeast of end of road and pumphouse, 0.9 mi northeast of Sitka, and 1.2 mi upstream from mouth.	11.4	1999	5-10-00	71
15087700 Indian River at Sitka	Crescent Bay	Lat 57°03′12", long 135°18′52", in NE¼ SW¼ SE¼ sec. 36 T. 55S., R. 63 E. (Sitka A-4 quad), Greater Sitka Borough, on Baranof Island, in Tongass National Forest, on right bank, 500 ft upstream from Sawmill Creek Road, 600 ft downstream from Sheldon Jackson College diversion, and 0.6 mi upstream from mouth. Currently operated as a continuous-record station.	12.0	1998-99	12-8-99 12-28-99 2-17-00 5-10-00 7-12-00 9-19-00	30 1050 17 53 38 110
15087730 Indian River Diversion to Sheldon Jackson College at Sawmill Creek Road at Sitka	Indian River	Lat 57°03′13", long 135°19′04", in NE¼ SW¼ SE¼ sec. 36, T. 55 S., R. 63 E. (Sitka A-4 quad), Greater Sitka Borough, on Baranof Island, in Tongass National Forest, on left bank at entrance to a box culvert under Sawmill Creek Road, 12 ft downstream from end of a 42-in. diversion pipe, about 1,000 ft upstream from Sheldon Jackson College campus, and about 1,500 ft downstream from point of diversion. Currently operated as a continuous-record station.	--	1998-99	10-02-99 11-09-99 12-09-99 12-28-99 2-17-00 3-30-00 5-10-00 7-19-00 9-15-00	30 28 24 37 12 37 33 36 39
15087735 Indian River Diversion Return Flow from Sheldon Jackson College at Sitka	Indian River	Lat 57°03′05", long 135°19′11", in SE¼ SW¼ SE¼ sec. 36, T. 55 S., R. 63 E. (Sitka A-4 quad), Greater Sitka Borough, on Baranof Island, in Tongass National Forest, on Sheldon Jackson College campus, 15 ft upstream from three road culverts, and behind the College Bookstore.Currently operated as a continuous-record station.	--	1998-99	11-09-99 12-28-99 2-17-00 3-30-00 5-10-00 7-20-00 9-12-00	21 27 1.7 26 22 29 32
15087740 Indian River Diversion Return Flow at Mouth at Sitka	Indian River	Lat 57°03′03", long 135°18′58", in NW¼ NE¼ NE¼ sec. 1, T. 56 S., R. 63 E. (Sitka A-4 quad), Greater Sitka Borough, on Baranof Island, in Sitka National Historical Park, at footbridge crossing of return flow, 50 ft upstream from mouth, and about 500 ft northeast of Park Headquarters in Sitka.	- -	1999	5-10-00	25
15087750 Indian River at Mouth at Sitka	Crescent Bay	Lat 57°02′54", long 135°18′51", in SW¼ NE¼ NE¼ sec. 1, T. 56 S., R. 63 E. (Sitka A-4 quad), Greater Sitka Borough, on Baranof Island, in Sitka National Historical Park, 75 ft upstream from footbridge across Indian River, about 900 ft southeast of Park Headquarters in Sitka, and 1,200 ft upstream from mouth	12.3	1998-99	5-10-00	70

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTHEAST ALASKA—Continued				
15087810 Sawmill Creek below Upper Tail-race near Sitka	Silver Bay	Lat 57°03′40", long 135°12′35", in NE¼ SE¼ NE¼ sec. 34, T. 55 S., R. 64 E., (Sitka A-4 quad), on Baranof Island, in Tongass National Forest, at footbridge crossing at campground, 240 ft downstream from upper powerplant tail-race, 0.35 mi downstream from dam at Blue Lake, 1.2 mi upstream from mouth and 4.6 mi east of Sitka.	38.0	1994-95, 1998-99	2-16-00 2-17-00 5-09-00	283 44 70
15088000 Sawmill Creek near Sitka	Silver Bay	Lat 57°03′05", long 135°13′40", in NE¼ SW¼ SW¼ sec. 34, T. 55 S., R. 64 E., (Sitka A-4 quad), on Baranof Island, in Tongass National Forest, 500 ft upstream from mouth, 1.5 mi downstream from dam at Blue Lake, and 4 mi east of Sitka.	39.0	(‡)1920-22, (‡)1928-42, (‡)1946-57, 1994, 1998-99	2-16-00 2-17-00 5-9-00	254 52 84
15088006 Blue Lake Hydro Tailrace near Sitka	Sawmill Creek	Lat 57°03′05", long 135°13′39", in SW¼ SW¼ SW¼ sec. 34, T. 55 S, R. 64 E. (Sitka A-4 quad), on Baranof Island, in Tongass National Forest, 50 ft upstream from mouth, 100 ft downstream from Blue Lake Power Plant, 200 ft upstream from mouth of Sawmill Creek at Sawmill Creek Road bridge, and 4 mi east of Sitka.	- -	- -	5-10-00	74
15088400 Cupola Peak Creek at Bear Cove near Sitka	Bear Cove	Lat 57°00′39", long 135°09′11", in NE¼ SE¼ SE¼, sec. 13, T. 56 S., R. 64 E. (Sitka A-4 quad), on Baranof Island, in the Tongass National Forest, 200 ft downstream from Green Lake Road crossing, 400 ft upstream from mouth at south shore of Bear Cove in Silver Bay, and about 7.1 mi southeast of Sitka.	n	- -	12-28-99 2-15-00 9-19-00	5.9 no flow no flow
15108930 Fish Creek at Eaglecrest near Auke Bay	Gastineau Channel	Lat 58°16′35", long 134°30′40", in SW¼ NE¼ NE¼ sec. 31, T. 41 S., R. 67 E. (Juneau B-2 SW quad), City and Borough of Juneau, on Douglas Island, in Tongass National Forest, at Eaglecrest Ski Resort, 200 ft upstream from maintenance road bridge, 4.3 mi west of Dou-glas, and 9.2 mi southeast of Auke Bay.	1.47	1999	12-27-99 6-22-00	296 24
15109045 North Fork Peter-son Creek near Auke Bay	Peterson Creek	Lat 58°16′49″, long 134°39′28″, in SE¼ SE¼ SW¼ sec. 29,T. 41 S., R. 66 E. (Juneau B-2 SW quad), City and Borough of Juneau, on Douglas Island, Tongass National Forest, 300 ft upstream from mouth, 7.3 mi south of Auke Bay, and 9.5 mi west of Douglas.	0.45	(†)1985-87, (†)1997-99	11-1-99 11-8-99	151 1.67
15129100 Alsek River above Alsek Lake near Yakutat	Dry Bay	Lat 59°11′47", long 138°11′20", in NE¼ SE¼ SE¼ sec. 28, T. 31 S., R. 43 E. (Yakutat A-1 NE quad), in Glacier Bay National Monument, 21.5 mi above mouth, 0.75 mi above Alsek Lake Outlet, 60 mi southeast of Yakutat.	- -	1999	+9-20-00	53,500
15129110 Alsek River below Alsek Lake near Yakutat	Dry Bay	Lat 59°10′39", long 138°13′49", in NW¼ NW¼ NE¼ sec. 5, T. 32 S., R. 43 E. (Yakutat A-1 quad), in Glacier Bay National Monument, about 0.5 mi below Alsek Lake, 18.9 mi above mouth and about 60 mi southeast of Yakutat.	- -	- -	+9-21-00	59,400

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTHEAST ALASKA—Continued				
15129585 Ophir Creek at gravel pit road near Yakutat	Tawah Creek	Lat 59°32′26″, long 139°42′06″, in SW¼ SW¼ SW¼ sec. 29, T.27 S., R.34 E. (Yakutat C-5 SW quad), in Tongass National Forest, at gravel road crossing, 3.5 mi upstream from Summit Lake, and 1.4 mi southeast of Yakutat.	--	1992-99	3-16-00 5-18-00	1.6 3.5
15129590 Ophir Creek at Airport Road at Yakutat	Tawah Creek	Lat 59°32′28″, long 139°43′18″, in SE¼ SE¼ SW¼ sec. 30, T. 27 S., R. 34 E. (Yakutat C-5 SW quad), in Tongass National Forest, at airport road crossing 2.5 mi upstream from Summit Lake, and 0.9 mi south of Yakutat.	--	1989, 1992-99	3-16-00 5-18-00	0.46 0.76
15129593 Ophir Creek Tributary at new excavation near Yakutat	Ophir Creek	Lat 59°32′14", long 139°43′45", in SW¼ NW¼ NW¼ sec. 31, T. 27 S., R. 34 E. (Yakutat C-5 SW quad), in Tongass National Forest, 50 ft upstream from Summit Lake Road, 100 ft upstream from mouth, and 1.1 mi south of Yakutat.	--	1998-99	5-18-00	0.48
15129600 Ophir Creek near Yakutat	Tawah Creek	Lat 59°31′26″, long 139°44′37″, in SW¼ NW¼ NE¼ sec. 1, T. 28 S., R. 33 E. (Yakutat C-5 SW quad), in Tongass National Forest, 0.8 mi upstream from Summit Lake, and 2 mi south of Yakutat. Currently operated as a continuous-record station.	a2.5	(‡)1992-99	10-22-99 1-11-00 3-17-00 5-18-00 6-28-00 8-18-00	83 27 12 8.8 2.6 5.8
15129615 Ophir Creek tributary at confluence near Yakutat	Ophir Creek	Lat 59°31′04", long 139°44′43", in NW¼ NW¼ NE¼ sec. 1, T. 28 S., R. 33 E. (Yakutat C-5 SW quad), in Tongass National Forest, at confluence with Ophir Creek, and 2.3 mi south of Yakutat.	--	1992-99	3-17-00 5-18-00	4.7 0.92
		SOUTH-CENTRAL ALASKA				
15201000 Dry Creek near Glennallen	Copper River	Lat 62°08′49″, long 145°28′31″, in NE¼ sec. 7, T. 4 N., R. 1 W. (Gulkana A-3 quad), 135 ft upstream from culvert at mi 119 Richardson Highway and 3.3 mi north of Glennallen.	11.4	†1963-99	6-08-00 9-26-00	18 93
15210025 McCarthy Creek at McCarthy	Kennicott River	Lat 61°25'54", long 142°55'02", in NW¼ NW¼ NE¼, sec. 19, T. 5 S., R. 14 E. (McCarthy B-6 quad), 1800 ft upstream from large boulder used for footbridge at trail crossing at McCarthy, 0.8 mi upstream from mouth.	79.0	†1993-99	9-01-00	137
15212500 Boulder Creek near Tiekel	Tiekel River	Lat 61°20'08", long 145°18'26", in SE¼ SW¼ NW ¼ sec. 19, T. 6 S., R. 1 E. (Valdez B-4 quad), at mi 51.4 on the former Richardson Highway	9.80	†1964-99	7-27-00	70
15212800 Ptarmigan Creek Tributary near Valdez	Ptarmigan Creek	Lat 61°08′12″, long 145°44′32″, NW¼ NE¼ sec 34, T. 8 S., R. 3 W. (Valdez A-5 quad), 275 ft upstream from Richardson Highway, 21 mi east of Valdez.	0.72	†1965-70 †1995-99	7-26-00	8.3
15227500 Mineral Creek near Valdez	Port Valdez	Lat 61°08′30″, long 146°21′42″, in SW¼NE¼ SE¼ sec. 30, T. 8 S., R. 6 W. (Valdez A-7 quad), 120 ft upstream from bridge, 1.8 mi above mouth, and 0.5 mi northwest of Valdez.	44.0	1913, 1948-50, 1972-73, †1990-99	9-28-00	631

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTH-CENTRAL ALASKA—Continued				
15236200 Shakespeare Creek at Whittier	Passage Channel	Lat 60°46′35″, long 148°43′35″, in NE¼ sec.22, T. 8 N., R. 4 E. (Seward D-5 quad), at bridge 0.5 mi upstream from mouth, and 1.8 mi west of the Alaska Railroad terminal building at Whittier.	1.61	1969, †1970-80, †1985-99	6-21-00	61
15239500 Fritz Creek near Homer	Kachemak Bay	Lat 59°42′30″, long 151°20′35″, in SW¼SW¼ sec. 28, T. 5 S., R. 12 W. (Seldovia C-4 quad), 25 ft downstream from culvert on East Road, and 8 mi northeast of Homer.	10.4	†1963-66, †ƒ 1967-70, †1971-77, †ƒ 1978-80 †+1981-85, ‡1986-92 †1993-99	4-24-00	38
15237900 Glacier Creek at Bruno Road near Seward	Resurrection River	Lat 60°10′49″, long 149°22′46″, in NW¼ sec.13, T. 1 N., R. 1 W. (Seward A-7 quad), Kenai Peninsula Borough, at Bruno Road bridge, 5.6 mi northeast of Seward.	--	†1987-99	8-01-00	135
15239900 Anchor River near Anchor Point	Cook Inlet	Lat 59°44'50", long 151°45'11", in NE¼ sec. 13, T. 5 S., R. 15 W. (Seldovia C-5 quad), Kenai Peninsula Borough, at bridge on Sterling Highway, 4.3 mi southeast of Anchor Point.	137	‡1965-73 1974 ‡1978-86 1987 ‡1991-92 1996, 1999	2.25	245
15273020 + Rabbit Creek at Hillside Drive near Anchorage	Turnagain Arm	Lat 61°05'51", long 149°43'52", in SE¼ SW¼ sec. 25, T. 12 N., R. 3 W. (Anchorage A-8 quad), Municipality of Anchorage, 50 ft upstream from Hillside Drive, 4.3 mi upstream from mouth and 9.5 mi southeast of Anchorage.	9.85	1998-99	3-22-00 5-30-00 5-31-00 7-19-00 7-26-00 8-01-00 8-22-00	5.4 23 30 43 24 25 25
15273030 + Rabbit Creek at East 140th Avenue near Anchorage	Turnagain Arm	Lat 61° 05'41", long 149° 47'14" in NE¼ NE¼ NW¼ sec. 34, T. 12 N., R. 3 W. (Anchorage A-8 quad), Municipality of Anchorage, 100 ft downstream from East 140th Avenue, 2.2 mi upstream from Potter Marsh, 9.4 mi south of Anchorage.	11.3	1999	3-21-00 5-30-00 6-22-00 7-10-00 7-19-00 8-02-00 8-22-00 8-23-00	6.8 28 31 26 54 25 15 18
15273040 + Rabbit Creek at Porcupine Trail Road near Anchorage	Turnagain Arm	Lat 61°05'15", long 149°49'06" in SE¼ SE¼ NW¼ sec. 33, T. 12 N., R. 3 W. (Anchorage A-8 quad), Municipality of Anchorage, 0.8 mi upstream from Potter Marsh, 0.3 mi upstream from Old Seward Highway, and 9.7 mi south of Anchorage.	13.3	1999	3-21-00 5-29-00 5-30-00 6-22-00 7-05-00 7-07-00 8-03-00 8-22-00	7.2 32 34 29 42 28 22 24
15273090 + Little Rabbit Creek at Nickleen Street near Anchorage	Rabbit Creek	Lat 61°04'21", long 149°43'25" in NW¼ SE¼ sec. 1, T. 11 N., R. 3 W. (Anchorage A-8 quad), Municipality of Anchorage, 100 ft upstream from Nickleen Street, 1 mi upstream from unnamed tributary, and 12 mi southeast of Anchorage.	r2.60	1980 1998-99	3-23-00 5-08-00 5-31-00 6-13-00 7-26-00 7-27-00 8-30-00 9-05-00	1.2 6.2 7.0 9.1 3.6 3.6 3.0 2.4

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTH-CENTRAL ALASKA—Continued				
15273097 + Little Rabbit Creek at Goldenview Drive near Anchorage	Rabbit Creek	Lat 61°04'54", long 149°46'20" in SW¼ SW¼ sec. 35, T.12 N., R.3W. (Anchorage A-8 quad), Municipality of Anchorage, at Goldenview Drive, and 11 mi southeast of Anchorage	r5.57	1968-69 1971-72 1999	3-23-00 5-08-00 5-31-00 6-13-00 7-27-00 7-31-00 8-30-00	2.0 15 13 16 5.6 4.2 4.7
15273100 + Little Rabbit Creek near Anchorage	Rabbit Creek	Lat 61°04'42", long 149° 48'36" in SW¼ NE¼ NE¼ sec. 4, T. 11 N., R. 3 W. (Anchorage A-8) Municipality of Anchorage, 0.3 mi upstream from Potter Marsh, 400 ft upstream from Old Seward Highway, and 10.2 mi south of Anchorage.	6.39	1968-69 1971-72 1984-85 1999	3-23-00 5-09-00 5-31-00 6-13-00 7-24-00 7-28-00 8-14-00 8-30-00 8-31-00	2.4 15 17 16 6.8 5.9 5.3 5.3 4.2
15274395 + Campbell Creek at New Seward Highway near Anchorage	Turnagain Arm	Lat 61°10'33", long 149° 51'23" in NW¼ SE¼ NW¼ sec. 32, T. 13 N., R. 3 W. (Anchorage A-8 quad), Municipality of Anchorage, 100 ft upstream from New Seward Highway, 1.8 mi downstream from confluence of North Fork Campbell Creek and South Fork Campbell Creek, and 3.3 mi south of Anchorage.	45.9	1999	3-16-00 6-02-00 6-19-00 8-07-00 8-09-00 9-11-00 9-15-00	13 78 162 109 92 81 62
15274557 + Campbell Creek at C Street near Anchorage	Turnagain Arm	Lat 61° 08'55", long 149° 53'03" in NE¼ SW¼ NW¼ sec. 7, T. 12 N., R. 3 W. (Anchorage A-8 quad), Municipality of Anchorage, 150 ft upstream from C Street Bridge, 0.8 mi downstream from Little Campbell Creek, and 5.1 mi south of Anchorage.	65.8	1999	3-15-00 5-31-00 6-02-00 6-20-00 7-21-00 8-07-00 8-11-00 9-11-00	12 89 89 171 180 115 86 84
15274796 + South Branch of South Fork Chester Creek at tank trail near Anchorage	South Fork Chester Creek	Lat 61°11'25", long 149°42'13" in SE ¼NW¼ sec. 30, T. 13 N., R. 2 W.(Anchorage A-8 quad), Municipality of Anchorage, 100 ft downstream from bridge on tank trail (Bulldog Trail), and 6.5 mi east of Anchorage.	4.30	1968, 72 1980 1998-99	3-22-00 5-05-00 6-06-00 7-13-00 7-31-00 8-24-00 9-18-00	2.2 3.4 6.6 5.9 6.4 4.6 5.1
15274830 + South Branch of South Fork Chester Creek at Boniface Parkway near Anchorage	South Fork Chester Creek	Lat 61°11'23", long 149° 46'33" in SW¼ SW¼ NW¼ sec. 26, T. 13 N., R. 3 W. (Anchorage A-8 quad), Municipality of Anchorage, 250 ft downstream from culvert at Lee Street, 250 ft upstream from Boniface Parkway, and 4.2 mi southeast of Anchorage.	14.8	1960 1999	3-13-00 4-14-00 6-05-00 6-15-00 7-03-00 7-07-00 8-07-00 8-29-00 9-18-00	13 21 9.2 12 11 13 12 23 11
15276200 + Ship Creek at Glenn Highway near Anchorage	Knik Arm	Lat 61°14'20, long 149°41'32"in SW¼ SW¼ SE¼ sec. 6, T. 13 N., R. 2 W. (Anchorage A-8 quad), Municipality of Anchorage, 1000 ft downstream from bridge, 0.3 mi upstream from Fort Richardson power plant dam, and 6.2 mi east of Anchorage.	103	1958-60 1967 1999	3-20-00 8-10-00 9-05-00	22 283 173
15276250 + Ship Creek below Cottonwood Park near Anchorage	Knik Arm	Lat 61°14'29, long 149°42'14"in SE¼ SW¼ sec. 6, T. 13 N., R. 2 W. (Anchorage A-8 quad), Municipality of Anchorage, 0.4 mi downstream from Glenn Hwy bridge, and 6.1 mi east of Anchorage.	--	--	6-05-00 6-08-00 6-13-00 6-20-00 7-25-00 8-02-00	512 815 700 535 321 321

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTH-CENTRAL ALASKA—Continued				
15276570 + Ship Creek below powerplant at Elmendorf Air Force Base	Knik Arm	Lat 61°13'29", long 149°50'39", in SW¼ SE¼ sec. 8, T. 13 N., R. 3 W. (Anchorage A-8 quad), Municipality of Anchorage, 0.4 mi upstream from Post Road, 2.0 mi upstream from mouth, and 1.4 mi east of Anchorage.	r113	‡1970-81 1999	3-16-00 6-01-00 8-02-00 8-10-00 9-05-00	35 371 300 269 193
15283600 Premier Creek near Sutton	Moose Creek	Lat 61°42′40″ long 149°05′12″, in SE¼ NE¼ sec. 28, T. 19 N., R. 2 E. (Anchorage C-6 quad), Matanuska-Susitna Borough, 10 ft downstream from culvert on Buffalo Mine Road (named Moose Creek Road on Anchorage C-6 quad), 4 mi north of Glenn Highway, 6 mi west of Sutton, and 7 mi northeast of Palmer.	3.38	†1996-99	7-13-00 9-26-00	6.6 25
614402149013500 +Moose Creek above Wishbone Hill near Sutton	Matanuska River	Lat 61°44′02″, long 149°01′35″, in NE¼ SE¼ sec. 14, T. 19 N., R. 2 E. (Anchorage C-6 quad), Matanuska-Susitna Borough, 30 ft downstream from bridge, 40 ft upstream from unnamed tributary, 1.8 mi upstream from Buffalo Creek, and 4.5 mi northwest of Sutton.	30.4	1999	11-12-99 4-5-00	60 17
15285000 Wasilla Creek near Palmer	Knik Arm	Lat 61°38′47″, long 149°11′45″, in SE¼ SW¼ sec. 13, T. 18 N., R. 1 E. (Anchorage C-6 quad), Matanuska-Susitna Borough, 20 ft downstream from culverts on Palmer-Fishhook Road, and 4.1 mi northeast of Palmer.	16.8	†1971, *f*†1976-83, †1984-99	5-02-00	80
15290200 Nancy Lake tributary near Willow	Nancy Lake	Lat 61°41′17″, long 149°57′58″, in SE¼ SE¼ sec. 34, T. 19 N., R. 4 W. (Tyonek C-1 quad), Matanuska-Susitna Borough, 50 ft upstream from culvert at Parks Highway, 0.3 mi upstream from mouth, and 4.5 mi southeast of Willow.	8.00	*f*1978-79, †1980, *f*1981, †1983-86, †1990-99	5-02-00 7-19-00	78 15
15291100 Raft Creek near Denali	Susitna River	Lat 63°03'04", long 147°16'22", in SE¼ sec. 36, T. 21 S., R. 2 E., (Healy A-1 quad), Matanuska-Susitna Borough, 30 ft upstream from culvert at mi 68.9 Denali Highway, and 10.7 mi southeast of Denali.	4.33	†1963-67, †1971-75, †1977-82, †1984-90, †1993-99	06-06-00	51
631613149314200 +Costello Creek above Camp Creek near Colorado	Bull River	Lat 63°16'13", long 149°31'42", in NW¼ SE¼ sec. 18, T. 19 S., R. 10 W. (Healy B-6 quad), Matanuska-Susitna Borough, 200 ft upstream from Camp Creek, 4.9 mi upstream from Bull River, and 7.5 mi northwest of Colorado.	--	--	7-11-00	239
15292302 +Camp Creek at mouth near Colorado	Costello Creek	Lat 63°16'12", long 149°31'33"in SE¼ NE¼ sec. 18, T. 19 S., R. 10 W. (Healy B-6 quad), Matanuska-Susitna Borough, 100 ft upstream from mouth, and 7.5 mi northwest of Colorado.	7.40	1999	6-1-00 7-11-00 8-8-00 9-7-00	49 19 9.3 5.2
15292304 +Costello Creek below Camp Creek near Colorado	Bull River	Lat 63°16'09", long 149°31'34"in NW¼ SE¼ sec. 18, T. 19 S., R. 10 W. (Healy B-6 quad), Matanuska-Susitna Borough, 200 ft downstream from Camp Creek, 4.8 mi upstream from Bull River, and 7.5 mi northwest of Colorado.	30.5	1999	6-1-00 8-8-00 9-7-00	134 103 45
625014150183200 Coffee River above Crystal Creek near Talkeetna	Chulitna River	Lat 62°50'14", long 150°18'32", in NW¼ SW¼ NE¼ sec. 25, T. 32 N., R. 6W (Talkeetna D-1 quad), about 36 mi north of Talkeetna.	--	--	6-2-00	209

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTH-CENTRAL ALASKA—Continued				
625012150182700 Crystal Creek at mouth near Talkeetna	Coffee River	Lat 62°50'12", long 150°18'27", in NW¼ SW¼ NE¼ sec. 25, T. 32 N., R. 6 W. (Talkeetna D-1 quad), about 36 mi north of Talkeetna.	--	--	6-2-00	84
623834150543300 Bear Creek near Talkeetna	Tokositna River	Lat 62°38'34", long 150°54'33", in NW¼ SE¼ SW¼ sec. 35, T. 30 N., R. 9 W. (Talkeetna C-2 quad), about 33 mi northwest of Talkeetna.	--	--	9-13-00	44
623920150540300 Wildhorse Creek near Talkeetna	Bear Creek	Lat 62°39'20", long 150°54'03", in NE¼ SW¼ SE¼ sec. 25, T. 30 N., R. 9 W. (Talkeetna C-2 quad), about 33 mi northwest of Talkeetna.	--	--	9-13-00	25
623510150450400 Long Creek near Talkeetna	Tokositna River	Lat 62°35'10", long 150°45'04", in NE¼ SE¼ SW¼ sec. 22, T. 29 N., R. 8 W. (Talkeetna C-2 quad), about 28 mi northwest of Talkeetna.	--	--	9-13-00	8.2
623530151112900 Hidden Creek near Talkeetna	Kahiltna River	Lat 62°35'30", long 151°11'29", in SW¼ NW¼ NE¼ sec. 20, T. 29 N., R. 10 W. (Talkeetna C-3 quad), about 40 mi northwest of Talkeetna.	--	--	9-13-00	52
623325151321800 Cripple Creek above Snowslide Creek near Talkeetna	Lake Creek	Lat 62°33'25", long 151°32'18", SE¼ NW¼ SW¼ sec. 33, T. 29 N., R. 12 W. (Talkeetna C-4 quad), about 50 mi northwest of Talkeetna.	--	--	9-12-00	38
623324151321600 Snowslide Creek at mouth near Talkeetna	Cripple Creek	Lat 62°33'24", long 151°32'16", in NW¼ SE¼ SW¼ sec. 33, T. 29 N., R. 12 W. (Talkeetna C-4 quad), about 50 mi northwest of Talkeetna.	--	--	9-12-00	44
622522151592200 Cascade Creek at mouth near Talkeetna	East Fork Yentna River	Lat 62°25'22", long 151°59'22", NE¼ NE¼ NE¼ sec. 23, T. 26 N., R. 15 W. (Talkeetna B-4 quad), about 62 mi west of Talkeetna.	--	--	9-12-00	81
621936151582700 Fourth of July Creek at mouth near Talkeetna	West Fork Yentna River	Lat 62°19'36", long 151°58'27", SE¼ SE¼ SW¼ sec. 24, T. 25 N., R. 14 W. (Talkeetna B-4 quad), about 60 mi west of Talkeetna.	--	--	9-12-00	315
621800152410600 Kichatna River above Morris Creek near Talkeetna	Yentna River	Lat 62°18'00", long 152°41'06", SW¼ SE¼ NW¼ sec. 31, T. 26 N., R. 18 W. (Talkeetna B-6 quad), about 84 mi west of Talkeetna.	--	--	9-11-00	90.9
621759152410500 Morris Creek at mouth near Talkeetna	Kichatna River	Lat 62°17'59", long 152°41'05", NE¼ NW¼ SW¼ sec. 31, T. 26 N., R. 18 W. (Talkeetna B-6 quad), about 84 mi west of Talkeetna.	--	--	9-11-00	49.7
600715152728000 North Fork Ore Creek near mouth near Johnson Glacier near Tuxedni Bay	Ore Creek	Lat 60°07'15", long 152°57'28", SW¼ SE¼ NW¼ sec. 6, T. 1 N., R. 21 W. (Kenai A-8 quad), about 10 mi south of Tuxedni Bay.	--	--	7-25-00	7.8
600713152574000 East Fork Ore Creek near mouth near Johnson Glacier near Tuxedni Bay	Ore Creek	Lat 60°07'13", long 152°57'40", SE¼ SW¼ NW¼ sec. 6, T. 1 S., R. 21 W. (Kenai A-8 quad), about 10 mi south of Tuxedni Bay.	--	--	7-25-00	16

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTH-CENTRAL ALASKA—Continued				
600658152581400 Ore Creek near mouth near Johnson Glacier near Tuxedni Bay	Johnson River	Lat 60°06'58", long 152°58'14", NE¼ SE¼ SE¼ sec. 1, T. 1 S., R. 22 W. (Kenai A-8 quad), about 10 mi south of Tuxedni Bay.	--	--	7-24-00	24
600609152561100 Johnson River tributary above Lateral Glacier near Tuxedni Bay	Johnson River	Lat 60°06'09", long 152°56'11", SW¼ NW¼ SW¼ sec. 5, T. 1 N., R. 21 W. (Kenai A-8 quad), about 10 mi south of Tuxedni Bay.	--	--	7-27-00	0.04
600826152554400 Kona Creek 3 mi above mouth above Lateral Glacier near Tuxedni Bay	Johnson River	Lat 60°08'26", long 152°55'44", NE¼ NW¼ NE¼ sec. 33, T. 1 N., R. 21 W. (Kenai A-8 quad), about 10 mi south of Tuxedni Bay.	--	--	7-26-00	56
600803152552400 Kona Creek 2.5 mi above mouth above Lateral Glacier near Tuxedni Bay	Johnson River	Lat 60°08'03", long 152°55'24", SW¼ SE¼ NE¼ sec. 33, T. 1 N., R. 21 W. (Kenai A-8 quad), about 10 mi south of Tuxedni Bay.	--	--	7-26-00	67
600636152551400 Kona Creek 0.8 mi above mouth above Lateral Glacier near Tuxedni Bay	Johnson River	Lat 60°06'36", long 152°55'14", SE¼ NW¼ NE¼ sec. 8, T. 1 S., R. 21 W. (Kenai A-8 quad), about 10 mi south of Tuxedni Bay.	--	--	7-24-00	123
600635152550900 Kona Creek tributary above Lateral Glacier near Tuxedni Bay	Kona Creek	Lat 60°06'35", long 152°55'09", SW¼ NE¼ NE¼ sec. 8, T. 1 S., R. 21 W. (Kenai A-8 quad), about 10 mi south of Tuxedni Bay.	--	--	7-24-00	2.3
15297200 Myrtle Creek near Kodiak	Kalsin Bay	Lat 57°36′12″, long 152°24′12″ in NW¼ SW¼ sec. 6, T. 30 S., R. 19 W. (Kodiak C-2 quad), Kodiak Island Borough, 0.1 mi upstream from bridge, 0.3 mi upstream from mouth, and 13 mi south of Kodiak.	4.74	‡1963-86, †1987-89, †1991-99	5-22-00	53
		SOUTHWEST ALASKA				
551344162434900 Trout Creek near Cold Bay	Cold Bay	Lat 55°13′44″, long 162°43′49″ in NW¼ SE¼ sec.23, T.57 S., R.89 W. (Cold Bay A-3 quad), Aleutians East Borough, 0.7 mi upstream from mouth, and 1.5 mi north of Cold Bay.	--	--	6-12-00 6-13-00	34 31
15297930 Chokotonk River at Mouth near Port Alsworth	Lake Clark	Lat 60°26'16", long 153°36'22", in SE¼ SW¼ NW¼ sec. 15, T. 4 N., R. 25 W. (Lake Clark B-2 quad), about 30 mi northeast of Port Alsworth.	158	1999	6-20-00	944
15297970 Tlikakila River at Mouth near Port Alsworth	Lake Clark	Lat 60°23'34", long 153°48'44", in NW¼ NW¼ SW¼ sec. 33, T. 4 N., R. 26 W. (Lake Clark B-3 quad), about 22 mi northeast of Port Alsworth.	622	1999	8-31-00 9-21-00	3,090 1,070

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTHWEST ALASKA—Continued				
15297980 Currant Creek at Mouth near Port Alsworth	Lake Clark	Lat 60°18′32″, long 154°00′03″, in SW¼ NE¼ sec. 32, T. 3 N., R. 27 W. (Lake Clark B-3 quad), about 14 mi northeast of Port Alsworth.	165	1999	6-21-00 7-18-00 8-29-00 9-19-00	776 2,760 1,230 297
15297990 Kijik River at Mouth near Port Alsworth	Lake Clark	Lat 60°17′06″, long 154°13′26″, in NE¼ NE¼ sec. 12, T. 2 N., R. 29 W. (Lake Clark B-4 quad), about 8 mi northeast of Port Alsworth.	298	1999	6-21-00 7-20-00 8-29-00	586 1,360 620
15298010 Tanalian River at Mouth at Port Alsworth	Lake Clark	Lat 60°11′55″, long 154°20′27″, in NW¼ NW¼ NE¼ sec. 8, T. 1 N., R. 29 W. (Lake Clark A-4 quad), about 0.5 mi southeast of airport runway at Port Alsworth.	205	1999	5-15-00 6-21-00 7-19-00 8-30-00 9-20-00	179 920 1,640 656 489
15298050 Chulitna River near Port Alsworth	Lake Clark	Lat 60°10′58″, long 154°34′33″, in NE¼ NW¼ NE¼ sec. 13, T. 1 N., R. 31 W. (Lake Clark A-5 quad), about 9 mi southwest of Port Alsworth.	1,157	1999	6-19-00 7-19-00 8-28-00 9-22-00	1,340 1,570 1,320 3,960
15299000 Lake Clark Outlet near Port Alsworth	Newhalen River	Lat 60°01′10″, long 154°45′11″, in SW¼ NE¼ sec. 10, T. 2 S., R. 32 W. (Lake Clark A-5 quad), about 20 mi southwest of Port Alsworth.	2,942	1999	6-19-00 7-19-00 8-28-00 9-22-00	8,620 17,100 11,600 8,690
15300350 Chinkelyes Creek tributary near Pedro Bay	Chinkelyes Creek	Lat 59°44'02", long 153°48'40", in SE¼ NE¼ NE¼ sec. 30, T. 13 S., R. 39 W. (Iliamna C-3 quad), Lake and Peninsula Borough, 60 ft upstream from culvert, 8 mi east of Pile Bay and 11 mi east of Pedro Bay.	0.40	†1998-99	10-07-99 6-06-00 7-27-00	2.6 5.8 0.6
15300700 +Alagnak River below Nonvianuk River near Igiugig	Kvichak River	Lat 59°01'16", long 155°50'51", in NE¼ SE¼ sec. 30, T. 13 S., R. 39 W. (Iliamna A-8 quad), Lake and Peninsula Borough, 600 ft downstream from mouth of Nonvianuk River, 4.6 mi upstream from Sugarloaf Mountain Creek, and 21.5 mi south of Igiugig	--	1999	6-02-00 6-14-00 7-20-00 8-08-00 8-30-00	3,140 5,380 6,010 3,990 2,920
15300730 +Alagnak River 27 miles above mouth near McCormick near Levelock	Kvichak River	Lat 59°06'52", long 156°23'01", in NW¼ NE¼ sec. 29, T. 12 S., R. 42 W. (Dillingham A-2 quad), Lake and Peninsula Borough, 560 ft downstream from McCormick's cabin, 27 mi above mouth, and 16.5 mi east of Levelock.	--	1999	6-01-00 6-12-00 6-26-00 7-18-00 8-08-00 8-28-00	2,940 4,670 6,060 5,980 4,440 3,170
15300770 +Alagnak River 13 miles above mouth near lower barge near Levelock	Kvichak River	Lat 59°03'05", long 156°37'25", in SW¼ NE¼ sec. 16, T.13 S., R.44 W. (Dillingham A-2 quad), Lake and Peninsula Borough, 1300 upstream from lower barge, 13 mi above mouth, and 9.5 mi southeast of Levelock.	--	1999	6-01-00 6-13-00 6-27-00 7-19-00 8-08-00 8-29-00	3,000 4,850 6,560 6,130 5,000 3,450
15302900 Moody Creek at Aleknagik	Wood River	Lat 59°16′34″, long 158°35′42″,in SE¼ sec. 30, T. 10 S., R. 55 W. (Dillingham B-7 quad), 500 ft upstream from mouth at Wood River at the Aleknagik Mission.	1.28	1968 †1969-73, †1975-83, †1988-89 †1993-99	5-18-00	15
15303660 Gold Creek at Takotna	Takotna River	Lat 62°59′20″, long 156°04′08″, in SE¼ SE¼ sec. 34, T. 34 N., R. 36 W. (Iditarod D-1 quad), at Takotna, 350 ft upstream from bridge, and 400 ft upstream from mouth.	6.31	†1987-99	7-10-00 8-28-00	5.4 7.7

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		YUKON ALASKA				
15305900 Dennison Fork near Tetlin Junction	South Fork Forty Mile River	Lat 63°25′24", long 142°29′00", in SW¼ sec. 14, T. 19 N., R. 15 E. (Tanacross B-3 quad), 10 ft downstream from culvert at mi 10.7 Taylor Highway and 8.3 mi northeast of Tetlin Junction.	2.93	†1964-70, †1972-75, †1977, †1979, †1981-84, †1983-90, †1992-98	5-24-00	16
15344000 King Creek near Dome Creek	O'Brien Creek	Lat 64°23′38", long 141°24′43", in NE¼ SW¼ sec. 16, T. 6 S., R. 32 E. (Eagle B-1 quad), at mi 120 Taylor Highway, 1,100 ft upstream from culvert at mi 119.9, 0.4 mi upstream from mouth, 4.9 mi east of Dome Creek, and 28 mi south of Eagle.	5.87	†1975-77 †1979-80 †1982 †1983-1990 †1991-98	5-11-00 5-24-00	15 31
15439800 Boulder Creek near Central	Crooked Creek	Lat 65°34′05″, long 144°53′13″, in NW¼, sec. 32, T. 9 N., R. 14 E. (Circle C-2 quad), 2000 ft upstream from bridge at mi 125.4 Steese Highway, 0.7 mi upstream from mouth, and 2.3 mi west of Central.	31.3	†1964-65, ‡1966-82, †1983, ‡1984-86, †1988-99	5-22-00	112
15442500 Quartz Creek near Central	Crooked Creek	Lat 65°37′09″, long 144°28′55″, in SW¼, sec. 7, T. 9 N., R. 16 E. (Circle C-2 quad), at mi 138.1 on Steese Highway, 1 mi upstream from mouth, and 10 mi east of Central.	17.2	†1990, †1992-99	5-22-00	20
15453610 Ray River Tributary near Stevens Village	Ray River	Lat 65°56′57", long 149°54′50" in SE¼, sec.17, T.13 N., R. 11 W. (Livengood D-6 quad), at mi 63.8 on the Dalton Highway and 22 mi west of Stevens Village.	8.00	†1977, †1979-80 †1982 †1987-88 †1990-98	6-6-00	31
15470300 Little Jack Creek near Nabesna	Jack Lake	Lat 62°32′47", long 143°19′30", in SW¼ NW¼ SE¼ sec. 22 T. 9 N., R. 11 E. (Nabesna C-5 quad), mi 25.8 Nabesna Road, and 15.6 mi northwest of Nabesna.	6.73	†1975-77 †1980 †1982-83 †1985-88 †1990-95 †1997-99	6-06-00	32
15476300 Berry Creek near Dot Lake	Tanana River	Lat 63°41′23", long 144°21′47", in NW¼, sec. 13 T. 22 N., R. 5 E. (Mt. Hayes C-1 quad), 100 ft upstream from former bridge site at mi 1371.4 on abandoned section of Alaska Highway, 1.9 mi upstream from mouth, and 6.0 mi west of Dot Lake.	65.1	†1963-71, †1972-81, †1982,1984, †1988 †1990-94 †1997-98	10-6-99 5-11-00 5-28-00	38 59 127
15477768 Sonora Creek above Tributary near Big Delta	Central Creek	Lat 64°23′09″, long 144°47′27″, in NW¼, sec. 21 T. 6 S., R. 15 E. (Big Delta B-2 quad), 1.5 mi upstream from mouth, 6 mi southeast of Pogo Mine site, and 34 mi northeast of Big Delta.	r 6.05	1999	1-26-00 3-21-00 5-12-00 6-29-00 8-15-00 9-21-00	.66 .58 2.8 2.1 11 9.0
15478093 Suzy Q Creek near Pump Station 10	Delta River	Lat 63°29′43″, long 145°51′27″, in SW¼, sec. 29, T. 16 S., R. 10 E. (Mt. Hayes B-4 quad), at mi 224.8 on Richardson Highway, 0.1 mi upstream from mouth, and 6 mi north of Pump Station 10.	1.29	†1987, †1991-94, †1997-99	7-13-00 8-13-00	10 1.3

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		YUKON ALASKA—Continued				
15478499 Ruby Creek above Richardson Highway near Donnelly	Delta River	Lat 63°37′54″, long 145°52′14″, in NE¼, sec. 7, T. 15 S., R. 10 E. (Mt. Hayes C-4 quad), 0.2 mi upstream from trans-Alaska Pipeline, 0.5 mi upstream from bridge at mi 234.8 on Richardson Highway, 2.2 mi upstream from mouth, and 2.3 mi south of Donnelly.	4.89	†1987-88, †1991-97 †1999	7-13-00 8-13-00	21 7.4
15480000 Banner Creek at Richardson	Tanana River	Lat 64°17′24" long 146°20′56", in SW¼, sec. 22, T. 7 S., R. 7 E. (Big Delta B-5 quad), 400 ft upstream from bridge at mi 295.4 Richardson Highway 0.2 mi upstream from mouth, and 0.4 mi northwest of Richardson.	20.2	†1964-67, †1969-70, †1972, †1974-75, †1977, †1982-84, †1989-93, †1995-96 †1998-99	5-23-00 8-13-00	20 89
15493400 Chena River below Hunts Creek near Two Rivers	Tanana River	Lat 64°51′36″, long 146°48′12″, in NW¼, sec. 5, T. 1 S., R. 5 E. (Big Delta D-6 quad), approximately 0.6 mi downstream from Hunts Creek and 1.5 mi south of mi 25.8 Chena Hot Springs Road.	1,344	1985, 1987-89, 1991-1999	8-31-00	3360
15516200 Slime Creek near Cantwell	Nenana River	Lat 63°30′34″, long 148°48′39", in SE¼ sec. 24, T. 16 S., R. 7 W. (Healy C-4 quad), at mi 219.9 George Parks Highway, 9.1 mi northeast of Cantwell	6.90	†1990-99	8-29-00	31
15517980 Dragonfly Creek near Healy	Nenana River	Lat 63°47′45″, long 148°55′19″, in SW¼, sec. 9, T.13 S., R. 7 W., (Healy D-4 quad), at mi 242.6 George Parks Highway, 6 mi southeast of Healy.	0.71	†1990-95, †1997-99	8-18-00	3.6
15541600 Globe Creek near Livengood	Tatilina River	Lat 65°17′08″, long 148°07′56″, in SE¼, sec. 3, T. 5 N., R. 3 W. (Livengood B-3 quad), 0.2 mi upstream from culvert at mi 36.7 on Elliott Highway.	23.0	†1964-70, †1972-74, †1976, †1982-83, †1985-86, †1989-91, †1993, †1995-99	5-26-00	65
15564868 Snowden Creek near Wiseman	Dietrich River	Lat 67°44′20″, long 149°44′24″, in SW¼, sec. 26, T. 34 N., R. 10 W. (Chandalar C-6 quad), upstream from culvert at mi 213.5 of the Dalton Highway and 24.5 mi northeast of Wiseman.	16.7	†1977-80, †1982, †1984-85, †1987-94, †1996-99	5-26-00 6-07-00	36 174
15564872 Nugget Creek near Wiseman	Middle Fork Koyukuk River	Lat 67°29′25″, long 149°52′20″, in NW¼, sec. 30, T. 31 N., R. 10 W. (Chandalar B-6 quad), upstream from culvert at mi 195.6 Dalton Highway, and 8.7 mi northeast of Wiseman.	9.47	†1975-79, †1982, †1985, †1987, †1989-99	5-26-00 6-7-00	28 78
15564884 Prospect Creek near Prospect Camp	Jim River	Lat 66°46′56″, long 150°41′06″, in NW¼, sec. 31, T. 23 N., R. 14 W. (Bettles D-2 quad), at mi 135.2 Dalton Highway, 0.4 mi downstream from Trans-Alaska Pipeline crossing, 1.5 mi upstream from mouth .	110	†1975-78, †1980 †1982 †1989 †1992-99	5-26-00	560
15564887 Bonanza Creek Tributary near Prospect Camp	Bonanza Creek	Lat 66°36′52″, long 150°41′24″, in SE¼, sec. 25, T. 21 N., R. 15 W., 0.3 mi downstream from culverts at mi 121.2 on the Dalton Highway, 3.4 mi upstream from mouth, and 13.5 mi south of pump station 5.	11.7	†1975-76, †1982, †1985-86, †1989-95, †1997-99	6-6-00	51

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		YUKON ALASKA—Continued				
15564950 Indian River at Utopia	Koyukuk River	Lat 65°59′49″, long 153°41′31″, in NW¼, sec. 19, T. 7 N., R. 25 E. (Melozitna D-2 quad), at mi 0.2 on road to Indian Mountain, and 1.8 mi upstream from mouth of Flat Creek.	38.8	†1998-99	6-5-00 9-6-00	246 110
15564960 Utopia Creek at Utopia	Indian River	Lat 65°59′19″, long 153°42′18″, in SE¼, sec. 24, T. 7 N., R. 24 E. (Melozitna D-2 quad), 0.3 mi south of landing strip at Utopia, and 1.2 mi upstream from mouth.	5.18	†1998-99	6-05-00 9-06-00	25 20
		NORTHWEST ALASKA				
15585000 Goldengate Creek near Nome	Norton Sound	Lat 64°26′03″, long 165°02′46″, in SW¼ sec. 15, T. 12 S., R. 32 W. (Nome B-1 quad), 500 ft upstream from culvert on Nome-Council Road and 11 mi southeast of Nome.	1.55	†1965 1966 †1986-88 †1990-99	6-09-00	5.9
15624998 Arctic Creek above tributary near Nome	Cripple River	Lat 64°38′16″, long 165°42′42″, in NE¼ sec. 8, T. 10 S., R. 35 W. (Nome C-2 quad), 300 ft upstream from Nome-Teller Road crossing, about 125 ft upstream from tributary entering left bank, 2 mi upstream from mouth, and 13 mi northwest of Nome.	1.13	† 1975, †1979-84, †1986-99	8-31-00	6.8
15633000 Washington Creek near Nome	Sinuk River	Lat 64°42′52″, long 165°49′13″, in NW¼ sec. 14, T. 9 S., R. 35 W. (Nome C-2 quad), 400 ft upstream from culvert on Nome-Teller Road, and 19 mi northwest of Nome.	6.34	†1964-66, †1968-78, †1980-99	6-09-00 8-31-00	8.9 3.3
15635000 Eldorado Creek near Teller	Tisuk River	Lat 64°57'38", long 166°11'59", in NE¼ NE¼ sec. 20, T.6 S., R.37 W. (Nome D-3 quad), 30 ft downstream from bridge at mi 46.3 of Nome-Teller Road, 0.5 mi upstream from mouth at Tisuk River and 21 mi south of Teller.	5.83	1986-87 ‡1988-90 1991 ‡1992-99	6-09-00	37
15746980 Ikalukrok Creek above Red Dog Creek near Kivalina	Wulik River	Lat 68°05′38″, long 162°56′47″, in SE¼, sec. 11, T. 31 N., R. 19 W. (DeLong Mts A-2 quad), 300 ft upstream from Red Dog Creek, 3 mi northwest of Red Dog Mine mill site, 36 mi north of Noatak, and 50 mi northeast of Kivalina. Cominco Station 9.	59.2	‡1991-92, 1993-99	10-7-99 7-5-00 9-10-00	38 79 231
15746983 Red Dog Mine Clean Water Ditch near Kivalina	Ikalukrok Creek	Lat 68°04′28″, long 162°51′35″, in NE¼, sec. 19, T. 31 N., R. 18 W. (DeLong Mts A-2 quad), 500 ft downstream from outfall of clean water ditch, 300 ft northwest of Red Dog Mine mill site, 0.4 mi upstream from South Fork Red Dog Creek, 36 mi north of Noatak, and 50 mi northeast of Kivalina. Cominco station 140.	4.74 (total) 4.34 (contri-buting)	‡1991-92, 1993-99	10-6-99 7-4-00 9-8-00	3.1 2.7 24
15746988 North Fork Red Dog Creek near Kivalina	Ikalukrok Creek	Lat 68°05′03″, long 162°52′52″, in SW¼, sec. 18, T. 31 N., R. 18 W. (DeLong Mts. A-2 quad), 500 ft upstream from mouth, 1.1 mi northwest of Red Dog Mine mill site, 36 mi north of Noatak, and 50 mi northeast of Kivalina. Cominco station 12.	15.9	‡1991-94, †1995-99	10-7-99 5-26-00 7-4-00 9-8-00 9-11-00	15 14 11 82 45

Discharge measurements made at partial-record stations and miscellaneous sites during water year 2000--Continued
[Footnotes at end of table on page 306]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		NORTHWEST ALASKA--Continued				
15746990 Red Dog Creek above Mouth near Kivalina	Ikalukrok Creek	Lat 68°05′20″, long 162°55′30″, in NW¼, sec. 13, T. 31 N., R. 19 W. (DeLong Mts. A-2 quad), 0.6 mi upstream from mouth, 2.3 mi northwest of Red Dog Mine mill site, 36 mi north of Noatak, and 50 mi northeast of Kivalina. Cominco Station 10.	24.6 (total) 20.8 (contributing)	‡1991-92, 1993-99	10-7-99 7-5-00 9-10-00	29 29 95
15746994 Ikalukrok Creek below Dudd Creek near Kivalina	Wulik River	Lat 68°00′17″, long 163°02′26″, in NW¼, sec. 16, T. 30 N., R. 19 W. (DeLong Mts. A-2 quad), Northwest Arctic Borough, 200 ft downstream from Dudd Creek, 30 mi north of Noatak, and 43 mi northeast of Kivalina. Cominco Station 7.	121	†1991-92 1999	10-7-99 7-7-00 9-10-00	113 111 492
15746998 Tutak Creek near Kivalina	Wulik River	Lat 67°52′28″, long 163°40′14″, in NE¼, sec. 34, T. 29 N., R. 22 W. (Noatak D-4 quad), 1,000 ft upstream from mouth, 25 mi northeast of Kivalina, and 28 mi northwest of Noatak.	119	1991, †1992-99	g5-25-99 g6-29-99 g9-10-99 7-7-00 9-9-00	452 48 24 19 217
		ARCTIC SLOPE ALASKA				
15904800 Atigun River near Pump Station 4	Sagavanirktok River	Lat 68°12′54″, long 149°24′13″, in SW¼, sec. 20, T. 14 S., R. 12 E. (Phillip Smith Mts. B-4 quad), at mi 253.1 on Dalton Highway, and 15 mi south of Pump Station 4.	48.7	‡1991-95 1999	6-7-00 9-12-00	321 30
15910300 Sagavanirktok River Tributary near Happy Valley Camp	Sagavanirktok River	Lat 69°09′38″, long 148°49′40″, in NE¼, sec. 30, T. 3 S., R. 14 E. (Sagavanirktok A-4 quad), 500 ft upstream from culvert at mi 335.2 on Dalton Highway, 0.8 mi upstream from mouth, and 16 mi south of Sagwon.	12.7	†1997-99	6-08-00 6-11-00 9-11-00	191 174 1.7
15918200 Sagavanirktok River Tributary near Deadhorse	Sagavanirktok River	Lat 69°57′14″, long 148°43′48″, in NE¼, sec. 19, T. 1 N., R. 14 E. (Sagavanirktok D-3 quad), at mi 386.2 on Dalton Highway, 0.4 mi upstream from mouth, and 23 mi south of Deadhorse.	a 12	†1988-91, †1995-97 †1999	6-8-00 6-10-00	85 124

FOOTNOTES

† Operated as a crest-stage partial-record station
‡ Operated as a continuous-record station
+ See analysis of samples collected at miscellaneous water-quality sites
* Operated as a stage-only partial-record station
a Approximately
b Ponded water but no flow
c Corrected
d Channel dry
e Estimated
f Low-flow partial-record station
g Not previously published
h Previously published as 15052482 Jordan Creek at Trout Street Bridge near Auke Bay
i Valve calibration
j Ice effect
n To be determined
p Peak flow
r Revised

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHEAST ALASKA

15049900 GOLD CREEK NEAR JUNEAU

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	COLOR (PLAT-INUM-COBALT UNITS) (00080)
OCT												
21...	1214	9	9	74.0	305	20	3044	96	7.6	8.0	4.5	5
NOV												
16...	1415	9	9	35.0	40	20	3044	137	7.8	--	3.5	2
DEC												
21...	1407	9	9	38.4	53	20	3044	130	7.7	3.5	2.5	5
JAN												
27...	1400	9	9	32.0	37	20	3044	147	7.8	1.0	.5	<1
FEB												
25...	0945	9	9	21.5	9.5	--	--	166	7.9	2.0	.5	8
APR												
17...	1245	9	9	25.5	15	20	3044	147	7.8	3.0	1.0	5
MAY												
22...	1415	9	9	103	300	20	3044	84	7.4	6.0	3.0	2
JUN												
14...	1145	9	9	172	373	20	3044	78	7.1	12.0	3.5	5
JUL												
17...	1445	9	9	77.0	254	20	3044	67	7.2	11.0	5.0	7
SEP												
14...	2000	9	9	178	--	10	--	--	--	--	6.0	--
27...	0930	9	9	38.0	77	20	--	98	7.6	--	7.0	--

DATE	TUR-BID-ITY (NTU) (00076)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	BROMIDE DIS-SOLVED (MG/L AS BR) (71870)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)
OCT												
21...	.4	44	12.8	2.89	.7	26	--	18.1	.5	<.1	<.01	2.2
NOV												
16...	.5	61	16.7	4.63	.9	--	--	29.6	.9	<.1	<.01	2.6
DEC												
21...	.5	57	16.6	3.85	.9	37	30	23.5	.9	<.1	<.01	2.3
JAN												
27...	.3	64	17.0	5.25	1.0	41	33	35.6	.8	<.1	<.01	2.4
FEB												
25...	.3	85	22.2	7.05	1.4	43	35	46.7	2.5	<.1	.13	2.9
APR												
17...	.3	69	19.1	5.25	1.2	43	35	30.6	.8	<.1	<.01	3.0
MAY												
22...	1.5	38	11.2	2.39	.6	25	24	16.4	.9	.1	<.01	2.1
JUN												
14...	.3	35	10.2	2.32	.7	26	21	16.4	.8	.1	<.01	1.6
JUL												
17...	1.6	30	8.67	1.91	.6	21	17	13.5	.4	.1	<.01	1.4
SEP												
14...	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	29	24	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHEAST ALASKA

15049900 GOLD CREEK NEAR JUNEAU--Continued

DATE	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
OCT											
21...	59	--	--	<2.0	26	<2	<8.0	<.8	<13	<10	<10
NOV											
16...	79	.379	.016	<2.0	32	<2	<8.0	<.8	<13	<10	<10
DEC											
21...	75	.402	<.010	<2.0	31	<2	<8.0	<.8	<13	<10	E10
JAN											
27...	88	.339	<.010	<2.0	33	<2	<8.0	<.8	<13	<10	<10
FEB											
25...	114	.366	<.010	<2.0	39	<2	<8.0	<.8	<13	<10	<10
APR											
17...	89	.592	<.010	E1.0	39	<2	<8.0	<.8	<13	<10	<10
MAY											
22...	50	--	<.010	<2.0	27	<2	<8.0	<.8	<13	<10	E10
JUN											
14...	45	--	<.010	<2.0	23	<2	E3.6	<.8	<13	<10	<10
JUL											
17...	35	--	<.010	<2.0	19	<2	<8.0	<.8	<13	<10	<10
SEP											
14...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY DIS-SOLVED (UG/L AS HG) (71890)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)
OCT											
21...	<100	<3.9	<2	<.2	<34	<40	<2.4	<7	64.4	<10	<20
NOV											
16...	<100	<3.9	<2	<.2	<34	<40	<2.4	<7	88.7	<10	<20
DEC											
21...	<100	<3.9	<2	<.2	<34	<40	<2.4	<7	81.6	<10	<20
JAN											
27...	<100	<3.9	<2	<.2	<34	<40	<2.4	<7	98.5	<10	<20
FEB											
25...	<100	<3.9	<2	<.2	<34	<40	<2.4	<7	121	<10	<20
APR											
17...	<100	<3.9	<2	<.2	<34	<40	<2.4	<7	99.6	<10	E17
MAY											
22...	<100	<3.9	<2	<.2	<34	<40	<2.4	<7	54.7	<10	<20
JUN											
14...	<100	E2.3	<2	<.2	<34	<40	<2.4	<7	51.1	<10	<20
JUL											
17...	<100	<3.9	<2	<.2	<34	<40	<2.4	<7	43.5	<10	<20
SEP											
14...	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHEAST ALASKA

15052450 JORDAN CREEK AT AMALGA STREET NEAR AUKE BAY-

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)
DEC							
27...	1505	9	9	58.5	8.62	63	20
28...	1520	9	9	--	8.55	E59	10

DATE	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
DEC						
27...	3044	10	5.0	4.5	208	35
28...	3044	--	--	--	80	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHEAST ALASKA

15129100 ALSEK RIVER ABOVE ALSEK LAKE NEAR YAKUTAT

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)
SEP 20...	1645	9	9	53500	20	8010	158	8.6	11.0	3.5	38.7	7.47

DATE	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
SEP 20...	3.2	3.0	52	61	1	52	<.001	.069	.006	E.10	<.10

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, TOTAL (UG/L AS SB) (01097)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)
SEP 20...	.296	E.003	.002	7190	56	<1.0	3	E.7	89.4	16	<5

DATE	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
SEP 20...	<1	65	.2	<1.0	13	E.7	4	<1	E17	<1	9760

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)
SEP 20...	2	<1	8.8	1.1	164	4	2	2	11	<1	<3

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
SEP 20...	E.4	<1	<1	167	100	<1	E24	<1	<1	314	45400

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHEAST ALASKA

15129110 ALSEK RIVER BELOW ALSEK LAKE NEAR YAKUTAT

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)
SEP 21...	1600	9	9	59400	20	8010	134	8.4	23.3	5.08	2.2

DATE	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	CAR-BONATE WATER DIS IT FIELD MG/L AS CO3 (00452)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)
SEP 21...	2.4	46	55	1	46	.001	.059	.004	E.10	<.10	.125

DATE	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, TOTAL (UG/L AS SB) (01097)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
SEP 21...	<.006	.002	4600	62	<1.0	E3	E.7	56.1	14	<5	<1

DATE	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)
SEP 21...	61	E.1	<1.0	8	E.6	2	<1	E12	<1	5600

DATE	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)
SEP 21...	E1	<1	E4.3	1.1	83	1	1	1	5	<1

DATE	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
SEP 21...	<3	E.5	<1	<1	110	86.5	<1	E18	<1	<1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273020 RABBIT CREEK AT HILLSIDE DRIVE NEAR ANCHORAGE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	SAMPLE LOC- ATION, CROSS SECTION (FT FM L BANK) (00009)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE AIR (DEG C) (00020)
MAR												
22...	1500	9	9	14.0	--	5.4	10	3044	1006	90	7.6	--
MAY												
31...	1250	9	9	14.5	--	30	10	3044	1006	86	7.3	--
AUG												
01...	1420	H	9	--	--	26	8010	--	3003	61	7.5	17.0
01...	1430	9	9	18.2	--	26	10	3045	1006	61	7.5	17.0
01...	1440	9	9	18.2	21.6	26	--	--	1099	61	7.5	17.0

DATE	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)	OXYGEN, DIS- SOLVED (MG/L) (00300)	OXYGEN, DIS- SOLVED (PER- CENT SATUR- ATION) (00301)	COLI- FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO- COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD- NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS- SOLVED (MG/L AS CA) (00915)	MAGNE- SIUM, DIS- SOLVED (MG/L AS MG) (00925)	SODIUM, DIS- SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
MAR												
22...	1.2	732	12.0	88	1	K3	K13	43	13.4	2.42	1.8	31
MAY												
31...	3.5	757	--	--	<1	<1	<1	36	11.0	1.92	1.3	25
AUG												
01...	7.4	742	--	--	--	--	--	--	--	--	--	--
01...	7.4	742	--	--	K4	K6	K10	25	8.09	1.23	1.0	20
01...	7.5	742	--	--	--	--	--	--	--	--	--	--

DATE	POTAS- SIUM, DIS- SOLVED (MG/L AS K) (00935)	BICAR- BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA- LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR												
22...	E.2	36	29	10.6	1.4	<.1	8.4	63	<.001	.574	<.002	<.10
MAY												
31...	E.2	30	24	5.0	.4	<.1	7.8	53	<.001	1.87	.042	E.10
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	<.2	22	18	8.1	E.3	<.1	6.1	39	<.001	.173	.003	<.10
01...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
MAR												
22...	<.10	<.008	E.003	.004	<10	<2	2	.03	29	.63	<.2	--
MAY												
31...	E.10	E.004	E.003	.005	<10	<2	3	.24	--	1.7	<.2	--
AUG												
01...	--	--	--	--	--	--	--	--	--	--	--	9
01...	<.10	<.008	<.006	.002	<10	<2	1	.07	--	.51	<.2	--
01...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273020 RABBIT CREEK AT HILLSIDE DRIVE NEAR ANCHORAGE--Continued

DATE	BENZENE HEXA-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
31...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	<50	<50	3.8	<.2	3.8	<50	<50	<50	<50	<50	<50	<50
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BI QUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHALENE, 2-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRACENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
31...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	4-BROMOPHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	M-CRESOL, 4-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHNLETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRAQUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZOBENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
31...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
01...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZOB FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCINNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALATE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALATEBUTYL BENZYL-SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8-ALKYL-SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBAZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHALATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHALATE, DIOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
31...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	<50	<50	<50	<50	E10	E20	<50	<50	<50	E10	<50
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273020 RABBIT CREEK AT HILLSIDE DRIVE NEAR ANCHORAGE--Continued

DATE	DIBENZ (AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPHENE,DIBENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHALATE, DIETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHALATE,DIMETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISOQUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
31...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	<50	<50	<50	<50	E10	<50	<50	<50	<50	<50	<50
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--

DATE	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLOROETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHLETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
31...	--	--	--	--	--	--	--	--	--	--	--
AUG											
01...	<50	<50	<50	<50	<50	E20	E10	<50	<50	<50	E10
01...	--	--	--	--	--	--	--	--	--	--	--
01...	--	--	--	--	--	--	--	--	--	--	--

15273030 RABBIT CREEK AT EAST 140th AVENUE NEAR ANCHORAGE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	SAMPLE LOCATION, CROSS SECTION (FT FM L BANK) (00009)	SAMPLE LOCATION, CROSS SECTION (FT FM R BK) (72103)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SAMPLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)
MAR												
21...	1230	9	9	17.0	--	--	6.8	10	3044	1006	102	7.7
MAY												
30...	1445	9	7	20.0	1.00	21.0	28	10	3044	1006	90	7.6
AUG												
02...	1220	H	9	--	--	--	25	--	--	3003	66	7.8
02...	1230	9	9	18.7	--	--	25	10	3044	1006	66	7.8
02...	1240	9	9	18.7	--	--	25	--	--	1099	66	7.8

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273030 RABBIT CREEK AT EAST 140th AVENUE NEAR ANCHORAGE--Continued

DATE	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTEROCOCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)
MAR												
21...	--	1.0	740	13.1	95	K4	K2	K5	46	14.0	2.61	2.0
MAY												
30...	16.0	6.0	760	12.5	101	120	K81	K1	41	12.7	2.24	1.7
AUG												
02...	--	7.9	--	--	--	--	--	--	--	--	--	--
02...	--	7.9	--	--	--	30	30	--	29	8.97	1.48	1.2
02...	--	7.9	--	--	--	--	--	--	--	--	--	--

DATE	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)
MAR												
21...	42	.2	49	40	9.8	2.2	<.1	8.2	70	66	<.001	.678
MAY												
30...	30	.2	34	28	5.6	1.1	<.1	7.9	61	57	<.001	1.89
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	24	E.2	26	22	7.4	.6	<.1	6.2	42	--	.001	.192
02...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)
MAR												
21...	<.002	<.10	E.10	E.004	<.006	.003	<10	<2	2	.04	50	.71
MAY												
30...	.011	.17	.10	.020	<.006	<.001	<10	<2	8	.60	--	2.2
AUG												
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	<.002	E.10	E.10	<.008	<.006	.002	<10	<2	1	.07	--	.57
02...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BENZENE HEXACHLOROSED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTACHLOROANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRICHLOROSED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DICHLOROSED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DICHLOROSED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DICHLOROSED, BM WS,<2MM DW, REC (UG/KG) (49442)
MAR												
21...	<.2	--	--	--	--	--	--	--	--	--	--	--
MAY												
30...	.2	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	--	8	<50	<50	16	<.2	16	<50	<50	<50	<50	<50
02...	<.2	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273030 RABBIT CREEK AT EAST 140th AVENUE NEAR ANCHORAGE--Continued

DATE	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BIQUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHALENE, 2-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	<50	<50	<50	<50	<50	<50	<50	E10	<50	<50	<50	<50
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)	4-BROMOPHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	M-CRESOL, 4-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLOROPHNPHNLETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRAQUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZOBENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCINNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALATE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALATEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8-ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBAZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHALATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	<50	<50	<50	<50	<50	<50	E20	E30	<50	<50	<50	<50
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHTHALATE, DIOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)	DIBENZ (AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPHENE,DI-BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHALATE, DIETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHALATE,DIMETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISOQUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
02...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
02...	--	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273030 RABBIT CREEK AT EAST 140th AVENUE NEAR ANCHORAGE--Continued

DATE	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITROSED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITROSED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLOROETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHLETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
MAY											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
02...	<50	<50	<50	<50	<50	50	<50	<50	<50	<50	110
02...	--	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--	--

15273040 RABBIT CREEK AT PORCUPINE TRAIL ROAD NEAR ANCHORAGE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SAMPLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)
MAR												
21...	1100	9	9	13.0	7.2	10	3044	1006	113	7.7	--	1.0
MAY												
30...	1345	9	9	14.0	34	10	3044	1006	96	7.6	16.0	6.0
AUG												
03...	1130	H	9	--	--	8010	8010	3003	70	7.7	--	9.5
03...	1210	9	9	9.00	22	10	3045	1006	70	7.7	19.0	9.5

DATE	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	COLIFORM, FECAL, 0.7 UM-MF (COLS./100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTEROCOCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)
MAR												
21...	743	13.3	96	K7	K4	--	50	15.4	2.86	2.4	41	.3
MAY												
30...	767	12.2	97	K6	K3	K1	43	13.3	2.37	2.1	32	.3
AUG												
03...	757	11.5	101	--	--	--	--	--	--	--	--	--
03...	757	11.5	101	--	--	--	30	9.27	1.63	1.3	23	E.2

DATE	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DISSOLVED (MG/L AS SO4) (00945)	CHLORIDE, DISSOLVED (MG/L AS CL) (00940)	FLUORIDE, DISSOLVED (MG/L AS F) (00950)	SILICA, DISSOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DISSOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTITUENTS, DISSOLVED (MG/L) (70301)	NITROGEN, NITRITE DISSOLVED (MG/L AS N) (00613)	NITROGEN, NO2+NO3 DISSOLVED (MG/L AS N) (00631)	NITROGEN, AMMONIA DISSOLVED (MG/L AS N) (00608)	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR												
21...	49	40	10.2	3.5	<.1	8.4	70	70	<.001	.748	<.002	E.10
MAY												
30...	38	31	5.7	1.7	<.1	8.1	68	61	<.001	1.90	.009	.14
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	--
03...	27	22	8.1	.8	<.1	6.7	46	--	<.001	.219	<.002	E.10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273040 RABBIT CREEK AT PORCUPINE TRAIL ROAD NEAR ANCHORAGE--Continued

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
MAR												
21...	<.10	E.005	<.006	.003	<10	2	2	.04	44	.96	<.2	--
MAY												
30...	.10	E.007	<.006	<.001	E10	E2	8	.73	--	2.5	<.2	--
AUG												
03...	--	--	--	--	--	--	--	--	--	--	--	3
03...	<.10	E.005	<.006	.003	<10	<2	3	.18	--	.67	<.2	--

DATE	BENZENE HEXACHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTACHLOROANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
03...	<50	<50	5.8	<.2	5.8	<50	<50	<50	<50	<50	<50	<50
03...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BIQUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DINITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DINITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHALENE, 2-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRACENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
03...	<50	E20	<50	<50	<50	50	<50	<50	<50	<50	<50	<50
03...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	4-BROMOPHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	M-CRESOL, 4-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHNLETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRAQUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZOBENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)
MAR												
21...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
30...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
03...	<50	<50	<50	E30	E10	<50	<50	E40	90	<50	120	120
03...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273040 RABBIT CREEK AT PORCUPINE TRAIL ROAD NEAR ANCHORAGE--Continued

DATE	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCI NNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALA TE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALA TEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8-ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBA-ZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHAL-ATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHAL ATE, D IOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
MAY											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	200	<50	E60	120	1000	90	<50	E10	220	50	110
03...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPH ENE,DI-BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHAL-ATE, D IETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHAL-ATE,DI-METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO-QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
MAY											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	<50	<50	<50	<50	340	E20	80	<50	<50	<50	<50
03...	--	--	--	--	--	--	--	--	--	--	--

DATE	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLORO ETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHL ETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
MAR											
21...	--	--	--	--	--	--	--	--	--	--	--
MAY											
30...	--	--	--	--	--	--	--	--	--	--	--
AUG											
03...	<50	<50	<50	250	<50	130	320	<50	<50	<50	620
03...	--	--	--	--	--	--	--	--	--	--	--

15273090 LITTLE RABBIT CREEK AT NICKLEEN STREET NEAR ANCHORAGE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR												
23...	1215	9	9	5.70	1.2	8010	3044	1006	124	7.8	--	1.0
MAY												
08...	1115	9	9	6.70	6.2	10	3045	1006	109	7.7	--	1.0
JUL												
27...	1020	9	9	7.60	3.8	10	3044	1006	93	7.9	14.5	6.5
27...	1030	H	9	--	--	8010	8010	3003	93	7.9	--	6.5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273090 LITTLE RABBIT CREEK AT NICKLEEN STREET NEAR ANCHORAGE--Continued

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
MAR												
23...	718	12.5	93	K10	<1	K4	58	18.3	3.03	2.0	44	.2
MAY												
08...	732	12.6	92	K2	<1	40	49	15.4	2.55	1.7	30	.3
JUL												
27...	719	11.3	97	45	55	50	44	13.9	2.22	1.4	30	E.2
27...	719	11.3	97	--	--	--	--	--	--	--	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR												
23...	54	44	14.6	.9	<.1	8.5	87	77	<.001	.612	<.002	<.10
MAY												
08...	35	29	10.3	.7	<.1	8.7	81	68	.002	2.44	.005	.18
JUL												
27...	36	29	11.9	.3	<.1	7.5	63	--	.001	.216	.005	E.10
27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
MAR												
23...	E.10	E.005	E.004	.005	<10	E2	2	.01	50	1.3	<.2	--
MAY												
08...	.14	.018	E.004	.002	E10	E2	11	.18	--	2.9	<.2	--
JUL												
27...	E.10	E.005	<.006	.002	<10	E2	2	.02	--	1.4	<.2	--
27...	--	--	--	--	--	--	--	--	--	--	--	49

DATE	BENZENE HEXA-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	<50	<50	17	<.2	17	<50	<50	<50	<50	<50	<50	M

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273097 LITTLE RABBIT CREEK AT GOLDENVIEW DRIVE NEAR ANCHORAGE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR												
23...	1045	9	9	7.20	2.0	10	3044	1006	161	8.2	--	.5
MAY												
08...	1305	9	9	11.2	15	10	3045	1006	128	7.9	--	2.5
JUL												
27...	1520	9	9	10.5	5.6	10	3045	1006	118	7.9	19.0	8.3
27...	1530	H	9	--	--	8010	8010	3003	--	--	--	--

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
MAR												
23...	735	12.9	93	K1	K4	K6	79	24.3	4.41	2.8	62	.4
MAY												
08...	751	12.8	95	K10	<1	34	58	17.8	3.21	2.2	37	.4
JUL												
27...	719	10.9	98	97	90	K15	57	17.8	2.97	1.9	43	.3
27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR												
23...	74	61	14.1	3.7	<.1	9.8	107	99	<.001	.812	<.002	.24
MAY												
08...	44	36	10.9	2.2	<.1	9.0	95	77	.001	2.22	.003	.28
JUL												
27...	50	41	11.3	1.3	<.1	8.5	80	71	.001	.427	.004	E.10
27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
MAR												
23...	.13	E.005	E.003	.003	E10	E1	8	.04	16	1.9	<.2	--
MAY												
08...	.21	.016	E.003	.001	20	5	16	.65	--	4.7	<.2	--
JUL												
27...	E.10	E.005	<.006	.002	E10	2	2	.03	--	1.8	<.2	--
27...	--	--	--	--	--	--	--	--	--	--	--	5

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273097 LITTLE RABBIT CREEK AT GOLDENVIEW DRIVE NEAR ANCHORAGE--Continued

DATE	BENZENE HEXA-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	<50	<50	8.8	<.2	8.8	<50	<50	<50	<50	<50	<50	<50

DATE	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BI QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHALENE, 2-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRA-CENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	4-BROMO PHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	M-CRE-SOL, 4-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHN LETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRA-QUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZO-BENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
08...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
27...	--	--	--	--	--	--	--	--	--	--	--	--
27...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCINNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALATE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALATEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8-ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBA-ZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHAL-ATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHALATE, DIOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
08...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	<50	<50	<50	<50	E20	50	<50	<50	<50	E30	E10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273097 LITTLE RABBIT CREEK AT GOLDENVIEW DRIVE NEAR ANCHORAGE--Continued

DATE	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPH ENE,DI- BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHAL- ATE, D IETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHAL- ATE,DI- METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUOR- ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLU- ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO- QUINO- LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
08...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	<50	<50	<50	<50	<50	<50	<50	<50	M	<50	<50

DATE	NAPHTH- ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN- THRI- DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINO- LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLORO ETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHL ETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P- CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
08...	--	--	--	--	--	--	--	--	--	--	--
JUL											
27...	--	--	--	--	--	--	--	--	--	--	--
27...	<50	<50	<50	<50	<50	E10	M	<50	<50	<50	E20

15273100 LITTLE RABBIT CREEK NEAR ANCHORAGE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS- CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM- PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE- CIFIC CON- DUCT- ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND- ARD UNITS) (00400)	TEMPER- ATURE WATER (DEG C) (00010)	BARO- METRIC PRES- SURE (MM OF HG) (00025)
MAR												
23...	0900	9	9	8.50	2.4	10	3044	1006	189	8.0	1.0	749
MAY												
09...	1215	9	9	9.40	15	10	3045	1006	137	7.9	3.0	765
JUL												
28...	1300	9	9	9.00	5.9	10	3044	1006	132	8.0	8.7	750
28...	1310	H	9	--	--	8010	8010	3003	132	8.0	8.7	750

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273100 LITTLE RABBIT CREEK NEAR ANCHORAGE--Continued

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
MAR												
23...	13.2	95	42	32	K32	93	29.1	4.85	4.0	67	.5	81
MAY												
09...	12.4	92	K3	K11	24	62	19.4	3.38	2.9	42	.4	50
JUL												
28...	10.7	93	39	27	30	59	18.7	3.08	2.3	48	.3	57
28...	10.7	93	--	--	--	--	--	--	--	--	--	--

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
MAR												
23...	66	14.9	7.0	<.1	10.1	123	115	<.001	1.00	<.002	E.10	.26
MAY												
09...	41	11.1	3.4	<.1	9.2	102	84	.002	2.19	.017	.32	.20
JUL												
28...	47	12.5	2.2	.2	8.2	79	77	.001	.468	.007	E.10	E.10
28...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BENZENE HEXA-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49343)
MAR												
23...	<.008	E.003	.003	E10	<2	1	.01	64	2.4	<.2	--	--
MAY												
09...	.021	<.006	<.001	20	3	16	.65	--	4.9	.3	--	--
JUL												
28...	<.008	<.006	.001	<10	<2	2	.03	--	2.3	<.2	--	--
28...	--	--	--	--	--	--	--	--	--	--	7	<50

DATE	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
09...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	<50	10	<.2	10	<50	<50	<50	<50	<50	<50	<50	<50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273100 LITTLE RABBIT CREEK NEAR ANCHORAGE--Continued

DATE	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BIQUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DINITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DINITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHALENE, 2-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)	4-BROMOPHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)
MAR												
23...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
09...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
28...	--	--	--	--	--	--	--	--	--	--	--	--
28...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	M-CRESOL, 4-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHNLETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRAQUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZOBENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	BENZOB FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCINNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALATE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALATEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8-ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBAZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHALATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHALATE, DIOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	<50	<50	M	<50	E10	E40	<50	<50	<50	E20	<50

DATE	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPHENE,DI-BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHALATE, DIETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHALATE,DIMETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO-QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	<50	<50	M	<50	<50	<50	<50	<50	<50	<50	<50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15273100 LITTLE RABBIT CREEK NEAR ANCHORAGE--Continued

DATE	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLORO ETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHL ETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
MAR											
23...	--	--	--	--	--	--	--	--	--	--	--
MAY											
09...	--	--	--	--	--	--	--	--	--	--	--
JUL											
28...	--	--	--	--	--	--	--	--	--	--	--
28...	<50	<50	<50	<50	<50	E10	M	<50	<50	<50	E20

15274395 CAMPBELL CREEK AT NEW SEWARD HIGHWAY NEAR ANCHORAGE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)
MAR												
16...	1230	9	9	27.0	--	13	8010	3044	1006	108	7.4	--
JUN												
02...	1030	9	9	44.0	--	78	10	3044	1006	84	7.6	13.0
AUG												
09...	1050	H	9	--	--	--	8010	8010	3003	90	7.7	--
09...	1130	9	9	41.0	.80	92	10	3044	1006	90	7.7	--

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)
MAR												
16...	.0	743	14.3	100	K5	K1	--	52	16.4	2.68	1.5	42
JUN												
02...	5.0	768	11.6	90	K9	<1	K6	39	12.2	1.98	1.3	30
AUG												
09...	9.0	766	11.8	102	--	--	--	--	--	--	--	--
09...	8.9	766	11.8	101	--	--	--	4	1.40	.21	.5	29

DATE	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
MAR												
16...	.3	42	35	14.7	.8	<.1	8.0	76	67	<.001	.380	<.002
JUN												
02...	E.2	36	30	9.4	.6	<.1	6.3	54	--	<.001	.527	<.002
AUG												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	E.2	33	27	13.5	.4	<.1	.8	65	--	.001	.120	.011

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15274395 CAMPBELL CREEK AT NEW SEWARD HIGHWAY NEAR ANCHORAGE--Continued

DATE	NITROGEN,AMMONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITROGEN,AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
MAR												
16...	<.10	.31	<.008	<.006	.002	40	7	1	.04	74	.88	.2
JUN												
02...	.27	<.10	.009	<.006	<.001	30	5	8	1.7	--	1.8	.3
AUG												
09...	--	--	--	--	--	--	--	--	--	--	--	--
09...	.14	E.10	E.005	<.006	.001	E10	<2	5	1.2	--	.93	<.2

DATE	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BENZENE HEXACHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTACHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DICHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)
MAR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	14	<50	<50	38	<.2	38	<50	<50	<50	<50	<50	<50
09...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BIQUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DINITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DINITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHALENE, 2-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRACENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)
MAR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
09...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)	4-BROMOPHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	M-CRESOL, 4-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHN LETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRAQUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZOBENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)
MAR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
09...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15274395 CAMPBELL CREEK AT NEW SEWARD HIGHWAY NEAR ANCHORAGE--Continued

DATE	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR- ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCI NNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR- ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALA TE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALA TEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8- ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBA- ZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRY- SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHAL- ATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHAL ATE, D IOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
MAR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
02...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
09...	<50	<50	<50	<50	<50	E40	E30	<50	<50	<50	E10	<50
09...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPH ENE,DI- BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHAL- ATE, D IETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHAL- ATE,DI- METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUOR- ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLU- ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO- QUINO- LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
MAR											
16...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	<50	<50	<50	<50	E20	<50	<50	<50	<50	<50	<50
09...	--	--	--	--	--	--	--	--	--	--	--

DATE	NAPHTH- ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN- THRI- DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINO- LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLORO ETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHL ETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P- CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
MAR											
16...	--	--	--	--	--	--	--	--	--	--	--
JUN											
02...	--	--	--	--	--	--	--	--	--	--	--
AUG											
09...	<50	<50	<50	<50	<50	E30	E20	<50	<50	<50	250
09...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15274557 CAMPBELL CREEK AT C STREET NEAR ANCHORAGE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)
MAR												
15...	1045	9	9	24.0	12	10	3044	1006	143	7.4	.0	760
MAY												
31...	1725	9	9	56.0	89	10	3044	1006	92	7.9	8.0	774
JUL												
21...	1110	9	9	38.5	180	10	3044	1006	88	7.5	8.0	761
AUG												
11...	1320	H	9	--	--	8010	8010	3003	104	7.8	11.1	771
11...	1330	9	9	35.5	86	10	3045	1006	104	7.8	11.1	771

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
MAR												
15...	13.3	91	K11	0	--	66	20.2	3.81	3.0	47	.5	56
MAY												
31...	8.9	74	59	K18	20	48	15.0	2.64	1.7	36	.3	43
JUL												
21...	11.1	94	76	K55	87	40	12.7	1.87	2.2	29	E.2	33
AUG												
11...	10.5	94	--	--	--	--	--	--	--	--	--	--
11...	10.5	94	--	--	--	49	15.7	2.31	1.3	33	E.2	39

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
MAR												
15...	46	14.9	4.3	<.1	8.6	97	85	.001	.488	.003	E.10	E.10
MAY												
31...	35	9.7	1.4	<.1	6.5	63	61	<.001	.619	.006	.17	E.10
JUL												
21...	27	12.4	.9	<.1	5.5	56	--	.001	.130	.012	.17	E.10
AUG												
11...	--	--	--	--	--	--	--	--	--	--	--	--
11...	32	14.2	.9	<.1	5.7	64	--	<.001	.122	<.002	.12	E.10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15274557 CAMPBELL CREEK AT C STREET NEAR ANCHORAGE--Continued

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BENZENE HEXA-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49343)
MAR												
15...	E.004	<.006	.002	40	28	2	.07	83	1.1	.2	--	--
MAY												
31...	.018	<.006	<.001	50	14	14	3.4	--	2.0	.3	--	--
JUL												
21...	.024	<.006	.002	30	9	23	11	--	1.2	.3	--	--
AUG												
11...	--	--	--	--	--	--	--	--	--	--	19	<50
11...	.008	<.006	.003	50	11	7	1.6	--	1.3	<.2	--	--

DATE	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)
MAR												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
11...	<50	20	<.2	20	<50	<50	<50	<50	<50	<50	<50	<50
11...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BI QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DI-NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DI-NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHAL ENE, 2-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)	4-BROMO PHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)
MAR												
15...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
31...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
21...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
11...	<50	<50	<50	<50	E10	<50	<50	<50	<50	<50	<50	<50
11...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	M-CRE-SOL, 4-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHN LETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRA-QUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZO-BENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
MAY											
31...	--	--	--	--	--	--	--	--	--	--	--
JUL											
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
11...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
11...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15274557 CAMPBELL CREEK AT C STREET NEAR ANCHORAGE--Continued

DATE	BENZOB FLUOR- ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCI NNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR- ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALA TE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALA TEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8- ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBA- ZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRY- SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHAL- ATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHAL ATE, D IOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
MAY											
31...	--	--	--	--	--	--	--	--	--	--	--
JUL											
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
11...	<50	<50	<50	<50	110	E40	<50	<50	<50	<50	<50
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPH ENE,DI- BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHAL- ATE, D IETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHAL- ATE,DI- METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUOR- ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLU- ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO- QUINO- LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
MAY											
31...	--	--	--	--	--	--	--	--	--	--	--
JUL											
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
11...	<50	<50	<50	<50	E20	<50	<50	<50	<50	<50	<50
11...	--	--	--	--	--	--	--	--	--	--	--

DATE	NAPHTH- ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN- THRI- DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINO- LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLORO ETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHL ETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P- CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
MAR											
15...	--	--	--	--	--	--	--	--	--	--	--
MAY											
31...	--	--	--	--	--	--	--	--	--	--	--
JUL											
21...	--	--	--	--	--	--	--	--	--	--	--
AUG											
11...	<50	<50	<50	<50	<50	E20	E20	<50	<50	<50	<50
11...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15274796 SOUTH BRANCH OF SOUTH FORK CHESTER CREEK AT TANK TRAIL NEAR ANCHORAGE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR												
22...	1150	9	9	6.60	2.2	10	3044	1006	122	7.5	--	1.0
MAY												
05...	1520	9	9	7.00	3.4	10	8010	1006	117	8.2	7.0	4.5
JUL												
31...	1430	9	9	8.40	6.4	10	3044	1006	113	7.5	--	7.0
31...	1440	H	9	--	--	8010	8010	3003	113	7.5	--	7.0

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
MAR												
22...	746	12.9	93	<1	<1	<1	62	18.9	3.57	1.9	51	.4
MAY												
05...	751	11.4	89	K1	<1	K4	57	17.4	3.40	1.8	--	.5
JUL												
31...	752	11.3	94	K7	K5	K30	52	15.9	2.88	1.7	39	.3
31...	752	11.3	94	--	--	--	--	--	--	--	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR												
22...	56	50	12.1	.6	<.1	11.7	89	80	<.001	.657	<.002	E.10
MAY												
05...	--	--	9.3	.7	<.1	10.7	83	77	.001	1.02	<.002	E.10
JUL												
31...	46	38	12.9	.3	<.1	9.8	76	68	<.001	.370	.004	.13
31...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
MAR												
22...	.21	.010	E.005	.006	<10	<2	4	.02	26	1.0	.3	--
MAY												
05...	.11	.008	<.006	<.001	E10	<2	6	.06	--	2.7	--	--
JUL												
31...	<.10	.010	E.003	.003	<10	E2	3	.05	--	1.5	<.2	--
31...	--	--	--	--	--	--	--	--	--	--	--	6

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15274796 SOUTH BRANCH OF SOUTH FORK CHESTER CREEK AT TANK TRAIL NEAR ANCHORAGE--Continued

DATE	BENZENE HEXA-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLUORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
05...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	<50	<50	21	<.2	21	<50	<50	<50	<50	<50	<50	<50

DATE	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BI QUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHALENE, 2-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHALENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRACENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
05...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	4-BROMO PHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	M-CRESOL, 4-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHNLETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPEN PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRAQUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZOBENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A) ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)
MAR												
22...	--	--	--	--	--	--	--	--	--	--	--	--
MAY												
05...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
31...	--	--	--	--	--	--	--	--	--	--	--	--
31...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	BENZOB FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCINNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALATE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALATEBUTYL BENZYL-SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8-ALKYL-SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBAZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHALATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHALATE, DIOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
JUL											
31...	--	--	--	--	--	--	--	--	--	--	--
31...	<50	<50	<50	<50	E20	50	<50	<50	<50	<50	<50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15274796 SOUTH BRANCH OF SOUTH FORK CHESTER CREEK AT TANK TRAIL NEAR ANCHORAGE--Continued

DATE	DIBENZ (AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPHENE,DIBENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHALATE, DIETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHALATE,DIMETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO-QUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
JUL											
31...	--	--	--	--	--	--	--	--	--	--	--
31...	<50	<50	M	<50	<50	<50	<50	<50	<50	<50	<50

DATE	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLOROETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHL ETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
MAR											
22...	--	--	--	--	--	--	--	--	--	--	--
MAY											
05...	--	--	--	--	--	--	--	--	--	--	--
JUL											
31...	--	--	--	--	--	--	--	--	--	--	--
31...	<50	<50	<50	<50	<50	E30	<50	<50	<50	<50	100

15274830 SOUTH BRANCH OF SOUTH FORK CHESTER CREEK AT BONIFACE PARKWAY NEAR ANCHORAGE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SAMPLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE AIR (DEG C) (00020)	TEMPERATURE WATER (DEG C) (00010)
MAR												
13...	1330	9	9	15.5	13	10	3045	1006	211	7.5	--	1.5
APR												
14...	1700	9	9	16.5	20	10	3044	1006	188	7.4	--	4.0
AUG												
07...	1400	H	9	--	--	8010	8010	3003	162	7.7	--	8.0
07...	1410	9	9	18.0	12	10	3044	1006	162	7.7	--	8.0
29...	1340	9	9	16.5	23	10	3044	1006	132	8.2	13.0	9.0
29...	1355	9	9	--	23	70	8010	1099	132	8.2	--	9.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15274830 SOUTH BRANCH OF SOUTH FORK CHESTER CREEK AT BONIFACE PARKWAY NEAR ANCHORAGE--Continued

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
MAR												
13...	758	12.4	89	--	700	--	81	24.2	5.14	5.9	62	.6
APR												
14...	765	10.4	79	K700	350	2370	64	19.0	4.08	8.2	55	2.9
AUG												
07...	775	11.7	97	--	--	--	--	--	--	--	--	--
07...	775	11.7	97	90	67	87	77	23.4	4.58	2.5	63	.4
29...	757	--	--	--	--	--	54	16.6	3.18	4.4	50	.9
29...	757	--	--	--	--	--	--	--	--	--	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR												
13...	75	61	15.3	9.7	<.1	11.7	126	112	.001	.578	.005	.15
APR												
14...	67	55	10.4	15.6	<.1	7.0	123	103	.011	.421	.392	1.1
AUG												
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	73	61	13.8	2.6	<.1	10.1	109	96	.001	.461	<.002	.12
29...	60	49	9.2	5.8	<.1	7.1	83	78	.007	.341	.004	.55
29...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, INOR-GANIC, PARTIC. TOTAL (MG/L AS C) (00688)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
MAR												
13...	.29	.015	E.004	.003	160	77	6	.20	86	1.6	--	.2
APR												
14...	.73	.171	.082	.057	240	139	50	2.8	89	6.8	--	3.6
AUG												
07...	--	--	--	--	--	--	--	--	--	--	--	--
07...	E.10	.008	<.006	.002	130	30	4	.14	--	2.5	--	.3
29...	.20	.099	.014	.001	60	35	42	2.6	96	3.9	--	2.5
29...	--	--	--	--	--	--	--	--	--	3.9	<.1	5.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15274830 SOUTH BRANCH OF SOUTH FORK CHESTER CREEK AT BONIFACE PARKWAY NEAR ANCHORAGE--Continued

DATE	CARBON, INORG + ORGANIC PARTIC. TOTAL (MG/L AS C) (00694)	NITRO-GEN,PAR TICULTE WAT FLT SUSP (MG/L AS N) (49570)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BENZENE HEXA-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49441)
MAR												
13...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	--	--	48	<50	<50	54	<.2	54	<50	<50	<50	<50
07...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	5.2	.29	--	--	--	--	--	--	--	--	--	--

DATE	BENZENE P-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BI QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DI-NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DI-NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHAL ENE, 2-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)
MAR												
13...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	<50	<50	<50	<50	<50	<50	<50	<50	60	<50	<50	<50
07...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)	4-BROMO PHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	M-CRE-SOL, 4-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHN LETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRA-QUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)
MAR												
13...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	<50	<50	<50	<50	<50	<50	E40	<50	<50	<50	50	120
07...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15274830 SOUTH BRANCH OF SOUTH FORK CHESTER CREEK AT BONIFACE PARKWAY NEAR ANCHORAGE--Continued

DATE	AZO-BENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCI NNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALA TE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALA TEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8- ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBA-ZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)
MAR												
13...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	<50	170	170	260	<50	E70	190	1500	140	<50	E20	290
07...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHTHAL-ATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHAL ATE, D IOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPH ENE,DI-BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHAL-ATE, D IETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHAL-ATE,DI-METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUOR-ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLU-ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO-QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)
MAR												
13...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	80	<50	<50	<50	<50	<50	470	E40	E100	<50	<50	<50
07...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	DIPHNYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)	NAPHTH-ALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENAN-THRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLORO ETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHL ETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
MAR												
13...	--	--	--	--	--	--	--	--	--	--	--	--
APR												
14...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
07...	<50	<50	<50	<50	330	<50	130	420	<50	<50	<50	780
07...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--
29...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15276200 SHIP CREEK AT GLENN HIGHWAY NEAR ANCHORAGE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR												
20...	1500	9	9	19.0	22	10	3044	1006	153	8.0	--	.0
JUN												
08...	1200	9	9	49.0	815	10	3053	1006	95	7.7	19.0	5.0
AUG												
10...	1250	9	9	83.5	283	10	3045	1006	98	7.7	--	7.9
10...	1300	H	9	--	--	--	--	3003	98	7.7	--	7.9

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	ENTERO-COCCI ME,MF WATER TOTAL (COL / 100 ML) (31649)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
MAR												
20...	750	13.5	94	K2	K2	K3	72	22.6	3.79	2.3	53	.3
JUN												
08...	749	11.6	92	K10	--	K3	40	12.8	1.99	1.4	30	.3
AUG												
10...	756	--	--	--	--	--	66	21.4	3.05	1.9	42	.2
10...	756	--	--	--	--	--	--	--	--	--	--	--

DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
MAR												
20...	64	53	22.1	.7	<.1	7.6	95	92	<.001	.307	<.002	.29
JUN												
08...	34	28	12.7	E.3	<.1	5.0	60	--	<.001	.142	<.002	.33
AUG												
10...	48	40	26.3	E.3	<.1	5.3	91	--	<.001	.094	<.002	<.10
10...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)
MAR												
20...	<.10	.043	<.006	.003	<10	2	18	1.1	69	.56	<.2	--
JUN												
08...	E.10	.210	<.006	<.001	E10	3	221	486	74	1.3	1.6	--
AUG												
10...	<.10	<.008	<.006	.001	<10	E1	1	.76	--	.59	<.2	--
10...	--	--	--	--	--	--	--	--	--	--	--	7

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15276200 SHIP CREEK AT GLENN HIGHWAY NEAR ANCHORAGE--Continued

DATE	BENZENE HEXA-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHALENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DI-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHALENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)
MAR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	6.4	<.2	6.3	<50	<50	<50	<50	<50	<50	<50

DATE	PHENANTHRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BI QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DI-NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHALENE, 2-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRA-CENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)
MAR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	4-BROMO PHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	M-CRE-SOL, 4-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHN LETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRI-DINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRA-QUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZO-BENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A) ANTHRA-CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)
MAR												
20...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
08...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	BENZOB FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCINNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR-ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALATE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALATEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8-ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBA-ZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRY-SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHAL-ATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHALATE, DIOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
MAR											
20...	--	--	--	--	--	--	--	--	--	--	--
JUN											
08...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	<50	<50	E10	E30	<50	<50	<50	E20	<50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15276200 SHIP CREEK AT GLENN HIGHWAY NEAR ANCHORAGE--Continued

DATE	DIBENZ (AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPHENE,DIBENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHALATE, DIETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHALATE,DIMETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISOQUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
MAR											
20...	--	--	--	--	--	--	--	--	--	--	--
JUN											
08...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLOROETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHLETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
MAR											
20...	--	--	--	--	--	--	--	--	--	--	--
JUN											
08...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	<50	<50	<50	E10	<50	<50	<50	<50	E30

15276250 SHIP CREEK BELOW COTTONWOOD PARK NEAR ANCHORAGE

DATE	TIME	STREAM WIDTH (FT) (00004)	STARTING TIME (2400 HOURS) (82073)	ENDING TIME (2400 HOURS (82074)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SAMPLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	SAMPLE PURPOSE CODE (71999)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)
JUN										
05...	1335	51.0	1335.00	1402.00	512	20	3007	10.00	60	83
08...	1059	46.0	1059.00	1140.00	815	20	3007	10.00	234	515
13...	1200	45.5	1140.00	1200.00	700	10	3007	10.00	48	91
20...	1030	45.0	1005.00	1045.00	535	10	3007	10.00	13	19
JUL										
25...	1100	74.0	1220.00	1250.00	321	10	3031	10.00	5	4.3
AUG										
02...	0900	74.0	820.00	844.00	321	10	3031	10.00	16	14
SEP										
26...	1000	44.0	1010.00	1050.00	E420	10	3007	10.00	31	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15276250 SHIP CREEK BELOW COTTONWOOD PARK NEAR ANCHORAGE--Continued

DATE	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	SEDI-MENT DIS-CHARGE, BEDLOAD (TONS/ DAY) (80225)	COMPSTD SAMPLES IN X-SEC BEDLOAD MEASMNT (NUM) (04118)	NUMBER OF SAM-PLING POINTS (COUNT) (00063)	VER-TICALS IN COM-POSITE SAMPLE (NUM) (04119)	HORI-ZONTAL WIDTH OF VER-TICAL (FEET) (04121)	TIME ON BED FOR BED LOAD SAMPLE (SEC) (04120)	BAG MESH SIZE BEDLOAD SAMPLER (MM) (30333)	TETHER LINE USED IN SAMPLNG (YES=1) (CODE) (04117)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .125 MM (80227)
JUN										
05...	72	11	2	1	22	1.5	60	.250	0	--
08...	73	95	2	1	23	1.5	60	.250	0	--
13...	67	14	2	1	12	4.0	60	.250	0	--
20...	67	1.1	2	1	23	1.5	60	.250	0	--
JUL										
25...	76	1.8	2	1	16	3.0	120	.250	0	--
AUG										
02...	65	.70	2	1	18	2.0	120	.250	0	0
SEP										
26...	75	.55	2	1	25	1.0	60	.250	0	0

DATE	SED. BEDLOAD SIEVE DIAM. % FINER THAN .250 MM (80228)	SED. BEDLOAD SIEVE DIAM. % FINER THAN .500 MM (80229)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 1.00 MM (80230)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 2.00 MM (80231)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 4.00 MM (80232)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 8.00 MM (80233)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 16.0 MM (80234)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 32.0 MM (80235)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 64.0 MM (80236)	SED. BEDLOAD SIEVE DIAM. % FINER THAN 76.0 MM (80237)
JUN										
05...	0	14	39	58	67	73	81	100	--	--
08...	0	6	20	34	45	56	70	88	98	100
13...	0	9	23	39	53	64	73	100	--	--
20...	0	4	18	35	56	80	93	100	--	--
JUL										
25...	0	11	34	56	74	88	100	--	--	--
AUG										
02...	2	16	38	59	69	79	100	--	--	--
SEP										
26...	3	15	43	69	85	96	100	--	--	--

15276570 SHIP CREEK BELOW POWER PLANT AT ELMENDORF AIR FORCE BASE

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
MAR												
16...	0800	9	9	36.0	34	10	3044	1006	259	7.8	--	8.0
JUN												
01...	1425	9	9	50.0	371	10	3044	1006	123	7.9	--	8.0
AUG												
10...	1710	9	9	58.0	269	10	3044	1006	165	7.8	22.0	11.6
10...	1710	H	9	--	--	8010	8010	3003	165	7.8	--	11.6

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15276570 SHIP CREEK BELOW POWER PLANT AT ELMENDORF AIR FORCE BASE--Continued

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	COLI-FORM, FECAL, 0.7 UM-MF (COLS./ 100 ML) (31625)	E. COLI WATER WHOLE TOTAL UREASE (COL / 100 ML) (31633)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
MAR												
16...	759	10.7	91	31	24	120	38.8	6.64	4.4	99	.7	120
JUN												
01...	766	12.0	101	K9	K3	56	17.6	2.90	1.9	42	.3	51
AUG												
10...	772	10.7	97	--	--	73	23.5	3.49	2.2	49	.3	56
10...	772	10.7	97	--	--	--	--	--	--	--	--	--

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
MAR												
16...	98	20.6	5.7	<.1	9.4	163	152	.006	1.54	.039	.13	<.10
JUN												
01...	42	13.2	.8	<.1	6.4	73	70	.001	.383	.034	.39	<.10
AUG												
10...	46	25.5	1.0	<.1	5.9	97	91	.001	.244	.003	E.10	<.10
10...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	BED MAT. SIEVE DIAM. % FINER THAN .062 MM (80164)	BENZENE HEXA-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49343)
MAR												
16...	.020	.011	.011	E10	101	4	.37	67	.86	.3	--	--
JUN												
01...	.048	E.005	<.001	E10	17	42	42	--	1.6	.4	--	--
AUG												
10...	E.007	E.003	.002	E10	19	6	4.4	--	.66	<.2	--	--
10...	--	--	--	--	--	--	--	--	--	--	4	<50

DATE	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)
MAR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	<50	3.2	<.2	3.2	<50	<50	<50	<50	<50	<50	<50	<50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15276570 SHIP CREEK BELOW POWER PLANT AT ELMENDORF AIR FORCE BASE--Continued

DATE	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BIQUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHALENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DINITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHALENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DINITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHALENE, 2-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHALENE, 2-ETHYL- SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)	4-BROMO PHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)
MAR												
16...	--	--	--	--	--	--	--	--	--	--	--	--
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
10...	--	--	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	M-CRESOL, 4-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHNLETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPEN PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRAQUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZOBENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A) ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)
MAR											
16...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50

DATE	BENZOB FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCINNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALATE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALATE TEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8-ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBAZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHALATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHALATE, DIOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
MAR											
16...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	<50	<50	E10	E30	<50	<50	<50	E10	<50

DATE	DIBENZ (AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPHENE,DI-BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHALATE, DIETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHALATE,DIMETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISOQUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
MAR											
16...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	<50	<50	E20	<50	<50	<50	<50	<50	<50

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15276570 SHIP CREEK BELOW POWER PLANT AT ELMENDORF AIR FORCE BASE--Continued

DATE	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITROSED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITROSED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLOROETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHLETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
MAR											
16...	--	--	--	--	--	--	--	--	--	--	--
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
AUG											
10...	--	--	--	--	--	--	--	--	--	--	--
10...	<50	<50	<50	<50	<50	E10	E20	<50	<50	<50	E20

15283550 MOOSE CREEK ABOVE WISHBONE HILL NEAR SUTTON

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DISCHARGE, INST. CUBIC FEET PER SECOND (00061)	SAMPLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPECIFIC CONDUCTANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STANDARD UNITS) (00400)	TEMPERATURE WATER (DEG C) (00010)	COLOR (PLATINUM-COBALT UNITS) (00080)
NOV												
12...	1115	9	9	42.0	42	10	3045	1099	100	7.4	.0	5
APR												
05...	1130	9	9	36.0	11	10	3045	1099	125	7.7	.4	5
JUN												
28...	1700	9	9	--	--	8010	3045	1099	50	7.2	5.7	8
SEP												
23...	1335	9	9	--	--	8010	3045	1099	67	7.5	4.5	5

DATE	TURBIDITY (NTU) (00076)	BAROMETRIC PRESSURE (MM OF HG) (00025)	OXYGEN, DISSOLVED (MG/L) (00300)	OXYGEN, DISSOLVED (PERCENT SATURATION) (00301)	HARDNESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DISSOLVED (MG/L AS CA) (00915)	MAGNESIUM, DISSOLVED (MG/L AS MG) (00925)	SODIUM, DISSOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTASSIUM, DISSOLVED (MG/L AS K) (00935)	BICARBONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKALINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
NOV												
12...	.5	752	11.0	76	41	13.8	1.51	2.6	31	.4	37	30
APR												
05...	.3	--	12.5	--	49	16.6	1.83	4.9	36	.5	42	35
JUN												
28...	1.3	727	12.9	108	23	7.91	.72	.9	20	.3	25	19
SEP												
23...	1.0	--	13.6	--	28	9.84	.90	1.1	25	.4	32	25

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15283550 MOOSE CREEK ABOVE WISHBONE HILL NEAR SUTTON--Continued

DATE	SULFATE DIS- SOLVED (MG/L AS SO4) (00945)	CHLO- RIDE, DIS- SOLVED (MG/L AS CL) (00940)	FLUO- RIDE, DIS- SOLVED (MG/L AS F) (00950)	SILICA, DIS- SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS- SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI- TUENTS, DIS- SOLVED (MG/L) (70301)	NITRO- GEN, NITRITE DIS- SOLVED (MG/L AS N) (00613)	NITRO- GEN, NO2+NO3 DIS- SOLVED (MG/L AS N) (00631)	NITRO- GEN, AMMONIA DIS- SOLVED (MG/L AS N) (00608)	NITRO- GEN,AM- MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO- GEN,AM- MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS- PHORUS TOTAL (MG/L AS P) (00665)
NOV												
12...	11.5	3.0	<.1	6.3	55	59	<.001	.426	.005	E.10	<.10	<.008
APR												
05...	15.6	6.8	<.1	6.2	74	75	<.001	.378	<.002	<.10	.16	<.008
JUN												
28...	4.3	.4	<.1	3.6	30	31	.001	.085	<.002	<.10	<.10	--
SEP												
23...	6.4	.6	<.1	4.0	45	40	<.001	.163	.003	<.10	<.10	--

DATE	PHOS- PHORUS DIS- SOLVED (MG/L AS P) (00666)	PHOS- PHORUS ORTHO, DIS- SOLVED (MG/L AS P) (00671)	ALUM- INUM, TOTAL RECOV- ERABLE (UG/L AS AL) (01105)	ARSENIC TOTAL (UG/L AS AS) (01002)	BARIUM, TOTAL RECOV- ERABLE (UG/L AS BA) (01007)	BERYL- LIUM, TOTAL RECOV- ERABLE (UG/L AS BE) (01012)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CHRO- MIUM, TOTAL RECOV- ERABLE (UG/L AS CR) (01034)	COPPER, TOTAL RECOV- ERABLE (UG/L AS CU) (01042)	IRON, TOTAL RECOV- ERABLE (UG/L AS FE) (01045)	IRON, DIS- SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV- ERABLE (UG/L AS PB) (01051)
NOV												
12...	<.006	<.001	29	E2	29.6	<5	<.1	<1	E1	30	<10	<1
APR												
05...	<.006	.005	<28	E2	34.2	<5	<.1	<1	E1	<20	<10	E1
JUN												
28...	<.006	<.001	--	<3	--	<5	<.1	E1	--	--	<10	<1
SEP												
23...	<.006	<.001	--	E2	--	<5	<.1	E1	--	--	<10	<1

DATE	MANGA- NESE, TOTAL RECOV- ERABLE (UG/L AS MN) (01055)	MANGA- NESE, DIS- SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV- ERABLE (UG/L AS HG) (71900)	NICKEL, TOTAL RECOV- ERABLE (UG/L AS NI) (01067)	SELE- NIUM, TOTAL (UG/L AS SE) (01147)	SILVER, TOTAL RECOV- ERABLE (UG/L AS AG) (01077)	ZINC, TOTAL RECOV- ERABLE (UG/L AS ZN) (01092)	SEDI- MENT, SUS- PENDED (MG/L) (80154)	SEDI- MENT, DIS- CHARGE, SUS- PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS- SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC- ULATE TOTAL (MG/L AS C) (00689)	CYANIDE TOTAL (MG/L AS CN) (00720)
NOV												
12...	<3	E1	<.3	<2	<3	<1	<31	<1	--	.67	<.2	<.01
APR												
05...	<3	<2	<.3	<2	<3	<1	<31	2	.06	.51	<.2	.01
JUN												
28...	--	<2	<.3	<2	<3	<1	<31	--	--	.54	<.2	<.01
SEP												
23...	--	<2	<.3	<2	<3	<1	<31	--	--	.74	.3	<.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

631613149314200 COSTELLO CREEK ABOVE CAMP CREEK NEAR COLORADO

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	ALUMI-NUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49237)	ANTI-MONY, BIOTA, TISSUE, DRY WGT REC (UG/G) (49246)	ARSENIC BIOTA, TISSUE, DRY WGT REC (UG/G) (49247)	BARIUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49238)	BERYL-LIUM-, BIOTA, TISSUE, DRY WGT REC (UG/G) (49248)	BORON, BIOTA, TISSUE, DRY WGT REC (UG/G) (49239)
AUG									
08...	1230	C	9	150	<.2	1.1	27	<.2	1.0

DATE	CADMIUM BIOTA, TISSUE, DRY WGT REC (UG/G) (49249)	CHROM-IUM-, BIOTA, TISSUE, DRY WGT REC (UG/G) (49240)	COBALT, BIOTA TISSUE, DRY WGT REC (UG/G) (49250)	COPPER, BIOTA, TISSUE, DRY WGT REC (UG/G) (49241)	IRON, BIOTA, TISSUE, DRY WGT REC (UG/G) (49242)	LEAD, BIOTA, TISSUE, DRY WGT REC (UG/G) (49251)	MANGAN-ESE, BIOTA, TISSUE, DRY WGT REC (UG/G) (49243)	MERCURY BIOTA, TISSUE, DRY WGT REC (UG/G) (49258)	MOLYB-DENUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49252)
AUG									
08...	.4	3.6	1.1	6.1	330	.3	38	.1	<.2

DATE	NICKEL, BIOTA, TISSUE, DRY WGT REC (UG/G) (49253)	SELEN-IUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49254)	SILVER, BIOTA, TISSUE, DRY WGT REC (UG/G) (49255)	STRON-TIUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49244)	URANIUM BIOTA, TISSUE, DRY WGT REC (UG/G) (49257)	VANA-DIUM BIO TIS DRY WGT REC (UG/G) (49465)	WATER, PRESENT BIO TIS DRY WGT REC PERCENT (49273)	ZINC, BIOTA, TISSUE, DRY WGT REC (UG/G) (49245)
AUG								
08...	1.6	6.7	<.2	180	<.2	1.1	78	240

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15292302 CAMP CREEK AT MOUTH NEAR COLORADO

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)
JUN												
01...	1530	9	9	16.0	49	10	3045	1099	36	7.0	.1	763
01...	1535	H	9	--	--	--	--	3001	--	--	--	--
JUL												
11...	1205	9	9	--	19	10	3045	1099	53	7.4	--	759
AUG												
08...	1145	9	9	21.0	9.3	10	--	1099	54	7.3	13.6	768
SEP												
07...	1105	9	9	15.5	5.2	10	3045	1099	66	7.5	5.3	--

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JUN												
01...	14.2	97	16	4.00	4.12	1.37	1.31	1.0	1.1	.5	16	.5
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	--	--	17	4.70	4.69	1.52	1.35	1.2	1.3	.3	18	E.2
AUG												
08...	10.3	98	24	6.07	6.47	1.86	1.88	1.9	1.8	.2	25	E.2
SEP												
07...	13.2	--	24	6.39	6.64	1.83	1.81	2.1	2.0	.3	26	.3

DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
JUN												
01...	18	15	.9	E.2	<.1	4.0	28	.001	.008	.014	.21	.13
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	21	16	2.0	<.3	<.1	4.6	33	.004	.015	.006	.15	.12
AUG												
08...	31	24	2.2	<.3	<.1	5.5	46	<.001	<.005	.003	.12	.10
SEP												
07...	32	25	2.4	E.2	<.1	5.5	45	.001	<.005	.008	.11	E.10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15292302 CAMP CREEK AT MOUTH NEAR COLORADO--Continued

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	ALUM-INUM, TOTAL RECOV-ERABLE (UG/L AS AL) (01105)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ANTI-MONY, TOTAL (UG/L AS SB) (01097)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOV-ERABLE (UG/L AS BA) (01007)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, TOTAL RECOV-ERABLE (UG/L AS BE) (01012)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)
JUN												
01...	.032	.007	<.001	308	52	<1.0	E1	E.6	29.1	24	<5	<1
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	.017	E.003	.002	339	16	<1.0	E2	E.8	27.9	23	<5	<1
AUG												
08...	E.004	<.006	<.001	42	18	<1.0	<3	.9	28.0	30	<5	<1
SEP												
07...	E.005	<.006	<.001	44	14	<1.0	<3	E.8	28.6	30	<5	<1

DATE	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, TOTAL RECOV-ERABLE (UG/L AS CR) (01034)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOV-ERABLE (UG/L AS CO) (01037)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOV-ERABLE (UG/L AS CU) (01042)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOV-ERABLE (UG/L AS FE) (01045)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, TOTAL RECOV-ERABLE (UG/L AS PB) (01051)
JUN												
01...	<12	<.1	<1.0	<1	<.8	<2	<1	<20	1	1060	230	<1
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	<12	<.1	<1.0	<1	<.8	<2	<1	<20	<1	630	80	<1
AUG												
08...	<12	<.1	<1.0	7	<.8	<2	<1	<20	<1	200	130	<1
SEP												
07...	<12	<.1	<1.0	<1	<.8	<2	<1	<20	<1	180	110	<1

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOV-ERABLE (UG/L AS LI) (01132)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, TOTAL RECOV-ERABLE (UG/L AS MN) (01055)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOV-ERABLE (UG/L AS HG) (71900)	MOLYB-DENUM, TOTAL RECOV-ERABLE (UG/L AS MO) (01062)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOV-ERABLE (UG/L AS NI) (01067)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, TOTAL (UG/L AS SE) (01147)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)
JUN												
01...	<1	<7.0	.4	36	10	<.3	<1	<1	E1	1	<3	<.7
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	<1	E3.5	.7	9	3	<.3	1	<1	E2	<1	<3	<.7
AUG												
08...	<1	<7.0	.5	4	4	<.3	<1	<1	<2	<1	<3	<.7
SEP												
07...	<1	<7.0	.5	4	3	<.3	<1	<1	E1	<1	<3	<.7

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15292302 CAMP CREEK AT MOUTH NEAR COLORADO--Continued

DATE	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
JUN												
01...	<1	<1	38.4	40.3	<1	<31	5	<1	39	5.1	6.4	.5
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	<1	<1	45.1	47.5	<1	<31	3	<1	23	1.2	3.2	.4
AUG												
08...	<1	<1	59.6	69.0	<1	<31	6	<1	5	.13	15	<.2
SEP												
07...	<1	<1	62.2	67.3	<1	<31	3	<1	<1	--	2.9	<.2

DATE	BENZENE HEXA-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49442)	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	<50	<50	9.4	.2	9.2	<50	<50	<50	<50	<50	E20	<50
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BI QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DI-NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DI-NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHAL ENE, 2-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)	ANTHRA-CENE,2-METHYL-SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	E10	E10	<50	E20	<50	<50	<50	<50	<50	<50	<50	<50
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15292302 CAMP CREEK AT MOUTH NEAR COLORADO--Continued

DATE	4-BROMO PHNPHNL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	M-CRE- SOL, 4- CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLORO PHNPHN LETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPEN PHENAN THRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPH THENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPH THYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRI- DINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRA- CENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10- ANTHRA- QUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZO- BENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)	BENZ(A) ANTHRA- CENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO (A) PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZOB FLUOR- ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCI NNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(G HI)PERY LENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUOR- ANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALA TE,BIS2 ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALA TEBUTYL BENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8- ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBA- ZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRY- SENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHAL- ATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)	PHTHAL ATE, D IOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	<50	<50	<50	<50	E30	110	<50	<50	<50	E10	<50
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--

DATE	DIBENZ (AH),AN THRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPH ENE,DI- BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHAL- ATE, D IETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHAL- ATE,DI- METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUOR- ANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLU- ORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHOR ONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO- QUINO- LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYL AMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	<50	<50	<50	<50	E20	<50	<50	<50	<50	<50	<50
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15292302 CAMP CREEK AT MOUTH NEAR COLORADO--Continued

DATE	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITROSED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITROSED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLOROETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHLETHYL ETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	<50	<50	<50	E50	<50	E10	E20	<50	<50	<50	<50
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	ALUMINUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49237)	ANTIMONY, BIOTA, TISSUE, DRY WGT REC (UG/G) (49246)	ARSENIC BIOTA, TISSUE, DRY WGT REC (UG/G) (49247)	BARIUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49238)	BERYLLIUM-, BIOTA, TISSUE, DRY WGT REC (UG/G) (49248)	BORON, BIOTA, TISSUE, DRY WGT REC (UG/G) (49239)
AUG									
08...	1030	C	9	70	<.2	1.6	13	<.2	.3

DATE	CADMIUM BIOTA, TISSUE, DRY WGT REC (UG/G) (49249)	CHROMIUM-, BIOTA, TISSUE, DRY WGT REC (UG/G) (49240)	COBALT, BIOTA TISSUE, DRY WGT REC (UG/G) (49250)	COPPER, BIOTA, TISSUE, DRY WGT REC (UG/G) (49241)	IRON, BIOTA, TISSUE, DRY WGT REC (UG/G) (49242)	LEAD, BIOTA, TISSUE, DRY WGT REC (UG/G) (49251)	MANGANESE, BIOTA, TISSUE, DRY WGT REC (UG/G) (49243)	MERCURY BIOTA, TISSUE, DRY WGT REC (UG/G) (49258)	MOLYBDENUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49252)
AUG									
08...	.2	2.0	.8	3.2	1000	<.2	17	M	<.2

DATE	NICKEL, BIOTA, TISSUE, DRY WGT REC (UG/G) (49253)	SELENIUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49254)	SILVER, BIOTA, TISSUE, DRY WGT REC (UG/G) (49255)	STRONTIUM, BIOTA, TISSUE, DRY WGT REC (UG/G) (49244)	URANIUM BIOTA, TISSUE, DRY WGT REC (UG/G) (49257)	VANADIUM BIO TIS DRY WGT REC (UG/G) (49465)	WATER, PRESENT BIO TIS DRY WGT REC PERCENT (49273)	ZINC, BIOTA, TISSUE, DRY WGT REC (UG/G) (49245)
AUG								
08...	1.0	9.6	<.2	62	<.1	.8	76	62

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15292304 COSTELLO CREEK BELOW CAMP CREEK NEAR COLORADO

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)
JUN												
01...	1230	9	9	40.0	134	10	3045	1099	89	7.3	1.3	788
01...	1235	H	9	--	--	--	--	3001	--	--	--	--
JUL												
11...	1030	9	9	--	258	10	3045	1099	133	7.9	--	759
AUG												
08...	1430	9	9	48.0	103	10	3045	1099	178	8.1	10.9	768
SEP												
07...	1305	9	9	48.0	45	10	3045	1099	211	8.0	6.1	--

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM TOTAL RECOV-ERABLE (MG/L AS CA) (00916)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, TOTAL RECOV-ERABLE (MG/L AS MG) (00927)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, TOTAL RECOV-ERABLE (MG/L AS NA) (00929)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, TOTAL RECOV-ERABLE (MG/L AS K) (00937)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JUN												
01...	14.4	99	51	9.86	10.2	6.15	6.22	2.4	2.7	.8	31	.8
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	--	--	60	15.3	13.9	9.08	6.13	2.6	2.5	.9	44	.5
AUG												
08...	10.3	92	84	19.1	19.6	8.80	8.58	3.3	3.9	.6	57	.6
SEP												
07...	12.3	--	96	21.4	21.7	10.2	10.0	4.1	4.1	.7	65	.7

DATE	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUN												
01...	36	30	9.9	.4	<.1	4.3	62	53	.002	.097	.005	.16
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	57	44	22.0	E.3	<.1	3.2	82	--	.001	.050	.003	.21
AUG												
08...	74	57	30.2	.3	<.1	3.6	111	104	<.001	.020	.005	<.10
SEP												
07...	83	64	38.9	.6	<.1	3.8	128	121	.001	.009	.004	<.10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15292304 COSTELLO CREEK BELOW CAMP CREEK NEAR COLORADO--Continued

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	ALUMINUM, TOTAL RECOVERABLE (UG/L AS AL) (01105)	ALUMINUM, DISSOLVED (UG/L AS AL) (01106)	ANTIMONY, TOTAL (UG/L AS SB) (01097)	ARSENIC TOTAL (UG/L AS AS) (01002)	ARSENIC DISSOLVED (UG/L AS AS) (01000)	BARIUM, TOTAL RECOVERABLE (UG/L AS BA) (01007)	BARIUM, DISSOLVED (UG/L AS BA) (01005)	BERYLLIUM, TOTAL RECOVERABLE (UG/L AS BE) (01012)
JUN												
01...	E.10	.039	E.005	<.001	566	29	<1.0	<3	.9	38.0	29	<5
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	E.10	.271	<.006	.003	4960	25	<1.0	6	1.3	93.1	27	<5
AUG												
08...	<.10	.025	<.006	.003	504	7	1.5	E2	1.6	41.3	35	<5
SEP												
07...	<.10	<.008	E.003	.001	41	4	<1.0	E2	1.7	42.3	45	<5

DATE	BERYLLIUM, DISSOLVED (UG/L AS BE) (01010)	BORON, DISSOLVED (UG/L AS B) (01020)	CADMIUM WATER UNFLTRD TOTAL (UG/L AS CD) (01027)	CADMIUM DISSOLVED (UG/L AS CD) (01025)	CHROMIUM, TOTAL RECOVERABLE (UG/L AS CR) (01034)	CHROMIUM, DISSOLVED (UG/L AS CR) (01030)	COBALT, TOTAL RECOVERABLE (UG/L AS CO) (01037)	COBALT, DISSOLVED (UG/L AS CO) (01035)	COPPER, TOTAL RECOVERABLE (UG/L AS CU) (01042)	COPPER, DISSOLVED (UG/L AS CU) (01040)	IRON, TOTAL RECOVERABLE (UG/L AS FE) (01045)	IRON, DISSOLVED (UG/L AS FE) (01046)
JUN												
01...	<1	E9	<.1	<1.0	1	<.8	<2	<1	<20	<1	1360	100
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	<1	<12	<.1	<1.0	15	<.8	4	<1	E14	<1	8950	<10
AUG												
08...	<1	E8	<.1	<1.0	2	<.8	<2	<1	<20	<1	1010	10
SEP												
07...	<1	12	<.1	<1.0	<1	<.8	<2	<1	<20	<1	80	E10

DATE	LEAD, TOTAL RECOVERABLE (UG/L AS PB) (01051)	LEAD, DISSOLVED (UG/L AS PB) (01049)	LITHIUM TOTAL RECOVERABLE (UG/L AS LI) (01132)	LITHIUM DISSOLVED (UG/L AS LI) (01130)	MANGANESE, TOTAL RECOVERABLE (UG/L AS MN) (01055)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	MERCURY TOTAL RECOVERABLE (UG/L AS HG) (71900)	MOLYBDENUM, TOTAL RECOVERABLE (UG/L AS MO) (01062)	MOLYBDENUM, DISSOLVED (UG/L AS MO) (01060)	NICKEL, TOTAL RECOVERABLE (UG/L AS NI) (01067)	NICKEL, DISSOLVED (UG/L AS NI) (01065)	SELENIUM, TOTAL (UG/L AS SE) (01147)
JUN												
01...	<1	<1	<7.0	1.8	36	8	<.3	<1	<1	3	1	<3
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	4	<1	10.2	2.3	167	6	<.3	<1	<1	19	2	E2
AUG												
08...	<1	<1	<7.0	3.2	19	2	<.3	1	1	E2	<1	E2
SEP												
07...	<1	<1	E3.4	3.5	E2	3	<.3	2	1	<2	<1	E3

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15292304 COSTELLO CREEK BELOW CAMP CREEK NEAR COLORADO--Continued

DATE	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, TOTAL RECOV-ERABLE (UG/L AS AG) (01077)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, TOTAL RECOV-ERABLE (UG/L AS SR) (01082)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, TOTAL RECOV-ERABLE (UG/L AS ZN) (01092)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
JUN												
01...	E.6	<1	<1	112	114	<1	<31	4	<1	63	23	--
01...	--	--	--	--	--	--	--	--	--	--	--	--
JUL												
11...	.9	<1	<1	154	150	<1	33	4	<1	220	153	83
AUG												
08...	1.2	<1	<1	194	201	<1	<31	<1	<1	20	5.6	--
SEP												
07...	1.6	<1	<1	228	242	<1	<31	2	<1	1	.12	--

DATE	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)	BENZENE HEXA-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49343)	PENTA-CHLORO-ANISOLE SED, BM WS,<2MM DW, REC (UG/KG) (49460)	CARBON, ORG + INORG SED, BM WS,<2MM DW, REC (G/KG) (49272)	CARBON, INORG, SED, BM WS,<2MM DW, REC (G/KG) (49270)	CARBON, ORGANIC SED, BM WS,<2MM DW, REC (G/KG) (49271)	BENZENE 124TRI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49438)	BENZENE O-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49439)	NAPTHAL ENE, 12 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49403)	BENZENE M-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49441)	BENZENE P-DI-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49442)
JUN												
01...	4.0	.3	--	--	--	--	--	--	--	--	--	--
01...	--	--	<50	<50	5.3	1.0	4.3	<50	<50	<50	<50	<50
JUL												
11...	.62	.6	--	--	--	--	--	--	--	--	--	--
AUG												
08...	.69	<.2	--	--	--	--	--	--	--	--	--	--
SEP												
07...	.71	<.2	--	--	--	--	--	--	--	--	--	--

DATE	NAPTHAL ENE, 16 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49404)	9H-FLU-ORENE, 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49398)	PHENAN THRENE 1METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49410)	PYRENE, 1-METHYL, SED, BM WS,<2MM DW, REC (UG/KG) (49388)	2,2'-BI QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49391)	NAPTHAL ENE,236 TRIMETH SED, BM WS,<2MM DW, REC (UG/KG) (49405)	TOLUENE 2,4-DI-NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49395)	NAPTHAL ENE, 26 DIMETHL SED, BM WS,<2MM DW, REC (UG/KG) (49406)	TOLUENE 2,6-DI-NITRO-SED, BM WS,<2MM DW, REC (UG/KG) (49396)	NAPTHAL ENE, 2-CHLORO-SED, BM WS,<2MM DW, REC (UG/KG) (49407)	PHENOL, 2CHLORO BED MAT WS <2MM DRY WGT REC (UG/KG) (49467)	NAPTHAL ENE, 2-ETHYL-SED BM WS <2MM DW REC (UG/KG) (49948)
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

15292304 COSTELLO CREEK BELOW CAMP CREEK NEAR COLORADO--Continued

DATE	ANTHRACENE,2-METHYL- SED, BM WS,<2MM DW, REC (UG/KG) (49435)	3,5-XYLENOL SED, BM WS,<2MM DW, REC (UG/KG) (49421)	4-BROMOPHNPHNLETHER SED, BM WS,<2MM DW, REC (UG/KG) (49454)	M-CRESOL, 4-CHLORO- SED, BM WS,<2MM DW, REC (UG/KG) (49422)	4CHLOROPHNPHNLETHER SED, BM WS,<2MM DW, REC (UG/KG) (49455)	4HCYPENPHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49411)	ACENAPHTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49429)	ACENAPHTHYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49428)	ACRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49430)	ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49434)	9,10-ANTHRAQUINONE SED, BM WS,<2MM DW, REC (UG/KG) (49437)	AZOBENZENE SED, BM WS,<2MM DW, REC (UG/KG) (49443)
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	BENZ(A)ANTHRACENE SED, BM WS,<2MM DW, REC (UG/KG) (49436)	BENZO(A)PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49389)	BENZOBFLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49458)	BENZOCINNOLINE BED MAT WS <2MM DRY WGT REC (UG/KG) (49468)	BENZO(GHI)PERYLENE SED, BM WS,<2MM DW, REC (UG/KG) (49408)	BENZO K FLUORANTHENE SED, BM WS,<2MM DW, REC (UG/KG) (49397)	PHTHALATE,BIS2ETHHEXL SED, BM WS,<2MM DW, REC (UG/KG) (49426)	PHTHALATEBUTYLBENZYL- SED, BM WS,<2MM DW, REC (UG/KG) (49427)	PHENOL C8-ALKYL- SED, BM WS,<2MM DW, REC (UG/KG) (49424)	CARBAZOLE SED, BM WS,<2MM DW, REC (UG/KG) (49449)	CHRYSENE SED, BM WS,<2MM DW, REC (UG/KG) (49450)	PHTHALATE, DIBUTYL SED, BM WS,<2MM DW, REC (UG/KG) (49381)
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	<50	<50	<50	<50	<50	<50	E30	70	<50	<50	<50	E10
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	PHTHALATE, DIOCTYL SED, BM WS,<2MM DW, REC (UG/KG) (49382)	DIBENZ(AH),ANTHRACEN SED, BM WS,<2MM DW, REC (UG/KG) (49461)	THIOPHENE,DI-BENZO- SED, BM WS,<2MM DW, REC (UG/KG) (49452)	PHTHAL-ATE, DIETHYL SED, BM WS,<2MM DW, REC (UG/KG) (49383)	PHTHAL-ATE,DI-METHYL SED, BM WS,<2MM DW, REC (UG/KG) (49384)	FLUORANTHENE BED MAT WS <2MM DRY WGT REC (UG/KG) (49466)	9H-FLUORENE SED, BM WS,<2MM DW, REC (UG/KG) (49399)	INDENO 123-CD PYRENE SED, BM WS,<2MM DW, REC (UG/KG) (49390)	ISOPHORONE SED, BM WS,<2MM DW, REC (UG/KG) (49400)	ISO-QUINO-LINE, SED, BM WS,<2MM DW, REC (UG/KG) (49394)	DPROPYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49431)	DIPHNYLAMINE,N NITROSO SED, BM WS,<2MM DW, REC (UG/KG) (49433)
JUN												
01...	--	--	--	--	--	--	--	--	--	--	--	--
01...	<50	<50	<50	E10	<50	<50	<50	<50	<50	<50	<50	<50
JUL												
11...	--	--	--	--	--	--	--	--	--	--	--	--
AUG												
08...	--	--	--	--	--	--	--	--	--	--	--	--
SEP												
07...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	NAPHTHALENE, SED, BM WS,<2MM DW, REC (UG/KG) (49402)	BENZENE NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49444)	BENZENE PNTCHLR NITRO- SED, BM WS,<2MM DW, REC (UG/KG) (49446)	PHENANTHRENE SED, BM WS,<2MM DW, REC (UG/KG) (49409)	PHENANTHRIDINE SED, BM WS,<2MM DW, REC (UG/KG) (49393)	PHENOL SED, BM WS,<2MM DW, REC (UG/KG) (49413)	PYRENE, SED, BM WS,<2MM DW, REC (UG/KG) (49387)	QUINOLINE, SED, BM WS,<2MM DW, REC (UG/KG) (49392)	METHANE 2CHLOROETHOXY SED, BM WS,<2MM DW, REC (UG/KG) (49401)	BIS2CHLETHYLETHER SED, BM WS,<2MM DW, REC (UG/KG) (49456)	P-CRESOL SED, BM WS,<2MM DW, REC (UG/KG) (49451)
JUN											
01...	--	--	--	--	--	--	--	--	--	--	--
01...	<50	<50	<50	E10	<50	E10	<50	<50	<50	<50	E10
JUL											
11...	--	--	--	--	--	--	--	--	--	--	--
AUG											
08...	--	--	--	--	--	--	--	--	--	--	--
SEP											
07...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

625014150183200 - COFFEE RIVER ABOVE CRYSTAL CREEK NEAR TALKEETNA

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)
JUN												
02...	1120	H	9	50.0	209	46	7.1	4.1	742	12.2	96	7.3

DATE	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)
JUN												
02...	.1	9.1	990	3.8	<1	.2	10	10	1.3	2	250	1

DATE	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)
JUN											
02...	<1	21	2	1.1	120	22	46	.12	330	<.02	.6

DATE	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)
JUN											
02...	110	6	23	.11	8	.1	.3	2.6	130	<.05	2

DATE	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
JUN											
02...	42	4	.14	12	13	56	5	56	.08	.01	.09

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

625012150182700 - CRYSTAL CREEK AT MOUTH NEAR TALKEETNA

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)
JUN 02...	1330	H	9	40.6	84	36	7.0	4.2	742	12.3	97	7.3

DATE	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)
JUN 02...	.1	10	920	2.7	<1	.2	24	16	1.5	3	400	1

DATE	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)
JUN 02...	<1	22	3	1.7	190	20	48	.24	530	.02	1.0

DATE	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)
JUN 02...	180	11	22	.15	14	.6	.3	2.3	140	<.05	2

DATE	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
JUN 02...	63	3	.25	22	31	75	6	68	.80	.01	.81

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

623834150543300 - BEAR CREEK NEAR TALKEETNA

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
SEP 13...	1305	H	9	32.0	44	1099	57	7.2	4.5	698	12.2	103

DATE	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)
SEP 13...	6.7	2.2	42	900	1.4	<1	.5	140	59	.45	26	66

DATE	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)
SEP 13...	1	<1	17	<1	4.6	36	17	47	.94	1200	.03	1.0

DATE	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)
SEP 13...	31	81	7	.15	15	.9	.1	1.0	170	<.05	<1

DATE	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
SEP 13...	9	2	.20	3.3	150	14	2	150	1.2	.02	1.3

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

623920150540300 - WILDHORSE CREEK NEAR TALKEETNA

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
SEP 13...	1200	H	9	18.0	25	1099	63	7.1	3.5	695	12.1	100

DATE	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)
SEP 13...	7.0	2.0	56	1000	1.6	<1	1.9	120	48	.96	19	33

DATE	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)
SEP 13...	<1	<1	16	<1	3.6	18	17	37	.80	1600	.08	1.6

DATE	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)
SEP 13...	16	56	7	.19	15	5.2	.2	.80	200	.10	<1

DATE	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
SEP 13...	6	2	.20	13	130	13	1	170	6.9	.03	7.0

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

623510150450400 - LONG CREEK NEAR TALKEETNA

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
SEP 13...	1415	H	9	12.5	8.2	1099	46	7.1	4.5	699	12.1	102

DATE	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)
SEP 13...	5.1	1.2	46	690	1.3	<1	.2	79	26	.67	10	44

DATE	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)
SEP 13...	1	<1	13	<1	4.1	22	10	38	.62	490	.04	1.3

DATE	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)
SEP 13...	21	32	9	.20	10	1.7	.1	.86	190	.10	<1

DATE	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
SEP 13...	6	2	.24	3.2	96	18	2	80	7.1	.04	7.1

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

623530151112900 - HIDDEN CREEK NEAR TALKEETNA

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
SEP 13...	1010	H	9	48.0	52	1099	47	7.0	3.2	710	13.4	107

DATE	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)
SEP 13...	8.2	<.1	3.3	550	2.5	<1	<.1	3	3	1.1	<1	62

DATE	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)
SEP 13...	<1	<1	15	<1	.40	31	25	57	.066	240	<.02	<.5

DATE	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)
SEP 13...	27	<2	7	.15	<2	<.1	<.1	2.8	120	<.05	1

DATE	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
SEP 13...	15	5	.063	7.8	5	15	1	16	.09	.01	.10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

623325151321800 - CRIPPLE CREEK ABOVE SNOWSLIDE CREEK NEAR TALKEETNA

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
SEP 12...	1400	H	9	46.5	38	1099	21	7.2	5.5	707	12.5	107

DATE	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)
SEP 12...	6.6	.2	8.7	1000	2.5	<1	.3	68	26	1.4	8	120

DATE	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)
SEP 12...	1	<1	16	2	2.2	62	20	43	.54	530	<.02	1.1

DATE	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)
SEP 12...	58	37	12	.23	8	.3	.2	1.8	180	<.05	1

DATE	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
SEP 12...	20	3	.27	9.8	57	39	3	80	.53	.01	.54

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

623324151321600 - SNOWSLIDE CREEK AT MOUTH NEAR TALKEETNA

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
SEP 12...	1445	H	9	28.0	44	1099	17	7.1	5.0	707	13.3	112

DATE	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)
SEP 12...	8.5	.5	1.7	1200	3.9	<1	.4	10	11	2.0	2	130

DATE	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)
SEP 12...	1	<1	19	2	1.1	71	76	75	.18	340	<.02	.9

DATE	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)
SEP 12...	68	6	12	.34	5	.1	.2	2.9	260	<.05	1

DATE	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
SEP 12...	24	5	.15	18	15	51	4	92	.07	.01	.08

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

622522151592200 - CASCADE CREEK AT MOUTH NEAR TALKEETNA

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)
SEP												
12...	1200	H	9	58.0	81	1099	48	7.7	5.5	747	12.6	102

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600713152574000 - EAST FORK ORE CREEK NEAR MOUTH NEAR JOHNSON GLACIER NEAR TUXEDNI BAY--Continued

DATE	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)
JUL												
25...	44	22	1	<1	18	1	11	8	<1	19	3.3	2000
25...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)
JUL												
25...	.53	<.5	15	15	<4	.089	56	.2	<.1	1.2	140	.07
25...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
JUL												
25...	<1	<1	1	.75	.4	420	38	4	120	.16	.16	.32
25...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600658152581400 - ORE CREEK NEAR MOUTH NEAR JOHNSON GLACIER NEAR TUXEDNI BAY

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)
JUL												
24...	1030	H	9	--	--	--	--	--	--	--	--	--
24...	1145	9	9	11.5	24	10	3045	1099	78	3.5	753	13.3

DATE	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
JUL												
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	101	34	9.93	2.19	1.0	18	<.2	23	18	17.0	.6	<.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL												
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	3.9	48	47	E.5	20	<1	24	1.5	<.8	<1	<1	E10

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
JUL												
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	<1	.6	14	<1	<1	<.7	<1	33.1	<1	303	<1	2

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)
JUL												
24...	--	9.0	5.9	44	860	.7	<1	4.6	23	92	2.6	24
24...	.13	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600658152581400 - ORE CREEK NEAR MOUTH NEAR JOHNSON GLACIER NEAR TUXEDNI BAY--Continued

DATE	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)
JUL												
24...	27	1	<1	18	1	6.6	12	180	16	3.0	1500	.28
24...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)
JUL												
24...	2.8	18	8	<4	.086	36	1.2	.2	.98	110	.44	<1
24...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
JUL											
24...	1	1	.53	1.0	220	33	4	1800	.24	.04	.28
24...	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600609152561100 - JOHNSON RIVER TRIBUTARY ABOVE LATERAL GLACIER NEAR TUXEDNI BAY

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)
JUL 27...	1145	9	9	.04	1099	40	7.3	9.8	741	10.0	91	19

DATE	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)
JUL 27...	6.72	.43	.6	16	<.2	21	16	3.9	.4	<.1	2.9	22

DATE	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)
JUL 27...	27	<.9	2	<1	E7	<1.0	<.8	<1	<1	<10	<1	E.2

DATE	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)
JUL 27...	<1	<1	<1	<.7	<1	7.8	<1	4	<1	7	.00

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600826152554400 - KONA CREEK 3 MI ABOVE MOUTH ABOVE LATERAL GLACIER NEAR TUXEDNI BAY

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)
JUL												
26...	1030	H	9	--	--	--	--	--	--	--	--	--
26...	1145	9	9	39.0	56	10	3045	1099	21	6.7	2.0	723

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	13.0	99	9	2.85	.42	.6	6	<.2	6	5	4.7	.4

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	<.1	2.1	15	28	<.9	8	<1	E9	<1.0	<.8	<1	<1

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	<10	<1	<.3	2	<1	<1	<.7	<1	8.5	<1	6	<1

DATE	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)
JUL												
26...	--	--	8.5	1.4	19	250	.5	<1	<.1	38	56	5.4
26...	4	.60	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600826152554400 - KONA CREEK 3 MI ABOVE MOUTH ABOVE LATERAL GLACIER NEAR TUXEDNI BAY--Continued

DATE	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)
JUL												
26...	26	30	1	<1	16	2	8.2	12	6	9	2.6	1600
26...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)
JUL												
26...	.75	1.6	20	11	<4	.12	49	.6	<.1	1.9	200	.11
26...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
JUL												
26...	<1	2	1	.72	.8	300	42	4	120	.25	.01	.26
26...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600803152552400 - KONA CREEK 2.5 MI ABOVE MOUTH ABOVE LATERAL GLACIER NEAR TUXEDNI BAY

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)
JUL												
26...	1400	H	9	--	--	--	--	--	--	--	--	--
26...	1515	9	9	34.5	67	10	3045	1099	22	3.4	728	13.0

DATE	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	102	9	2.95	.44	.6	6	<.2	8	6	4.5	.5	<.1

DATE	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)	IRON, DIS-SOLVED (UG/L AS FE) (01046)
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	2.2	14	24	<.9	9	<1	E9	<1.0	<.8	<1	<1	<10

DATE	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)	SEDI-MENT, SUS-PENDED (MG/L) (80154)
JUL												
26...	--	--	--	--	--	--	--	--	--	--	--	--
26...	<1	<.3	1	<1	<1	<.7	<1	9.1	<1	6	<1	1

DATE	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)
JUL												
26...	--	8.3	1.5	18	260	.4	<1	.1	42	57	5.3	27
26...	.18	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600803152552400 - KONA CREEK 2.5 MI ABOVE MOUTH ABOVE LATERAL GLACIER NEAR TUXEDNI BAY--Continued

DATE	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)
JUL												
26...	29	1	<1	16	2	8.9	12	5	9	2.6	1600	.16
26...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)
JUL												
26...	1.6	20	11	<4	.12	49	.6	<.1	1.8	200	.15	<1
26...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
JUL											
26...	2	1	.76	.9	340	43	4	140	.26	.01	.27

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600803152552400 - KONA CREEK 0.8 MI ABOVE MOUTH ABOVE LATERAL GLACIER NEAR TUXEDNI BAY

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)
JUL												
24...	1600	H	9	--	--	--	--	--	--	--	--	--
24...	1605	9	9	45.5	123	10	3045	1099	35	7.5	3.9	750

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
JUL												
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	12.8	99	15	4.93	.62	.8	9	<.2	12	9	5.9	.9

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
JUL												
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	<.1	2.8	22	31	<.9	7	<1	E9	<1.0	<.8	<1	<1

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
JUL												
24...	--	--	--	--	--	--	--	--	--	--	--	--
24...	<10	<1	<.3	2	<1	<1	<.7	<1	10.3	<1	9	<1

DATE	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)
JUL												
24...	--	--	8.8	1.7	16	340	.6	<1	.4	48	63	4.2
24...	1	.33	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600803152552400 - KONA CREEK 0.8 MI ABOVE MOUTH ABOVE LATERAL GLACIER NEAR TUXEDNI BAY--Continued

DATE	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)
JUL												
24...	23	25	1	<1	16	1	6.5	10	17	12	2.2	1400
24...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)
JUL												
24...	.28	1.4	16	14	<4	.10	36	.7	.1	1.7	190	.19
24...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
JUL												
24...	<1	1	1	.62	.7	220	31	3	150	.49	.01	.50
24...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600635152550900 KONA CREEK TRIBUTARY ABOVE LATERAL GLACIER NEAR TUXEDNI BAY

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)
JUL												
24...	1750	H	9	--	--	--	--	--	--	--	--	--
27...	1030	9	9	3.30	2.3	10	3045	1099	105	7.2	4.5	740

DATE	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
JUL												
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	13.0	103	52	19.2	.88	.9	32	<.2	42	32	17.0	.6

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	ALUM-INUM, DIS-SOLVED (UG/L AS AL) (01106)	ARSENIC DIS-SOLVED (UG/L AS AS) (01000)	BARIUM, DIS-SOLVED (UG/L AS BA) (01005)	BERYL-LIUM, DIS-SOLVED (UG/L AS BE) (01010)	BORON, DIS-SOLVED (UG/L AS B) (01020)	CADMIUM DIS-SOLVED (UG/L AS CD) (01025)	CHRO-MIUM, DIS-SOLVED (UG/L AS CR) (01030)	COBALT, DIS-SOLVED (UG/L AS CO) (01035)	COPPER, DIS-SOLVED (UG/L AS CU) (01040)
JUL												
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	<.1	4.6	63	5	<.9	1	<1	22	<1.0	<.8	<1	<1

DATE	IRON, DIS-SOLVED (UG/L AS FE) (01046)	LEAD, DIS-SOLVED (UG/L AS PB) (01049)	LITHIUM DIS-SOLVED (UG/L AS LI) (01130)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	MOLYB-DENUM, DIS-SOLVED (UG/L AS MO) (01060)	NICKEL, DIS-SOLVED (UG/L AS NI) (01065)	SELE-NIUM, DIS-SOLVED (UG/L AS SE) (01145)	SILVER, DIS-SOLVED (UG/L AS AG) (01075)	STRON-TIUM, DIS-SOLVED (UG/L AS SR) (01080)	VANA-DIUM, DIS-SOLVED (UG/L AS V) (01085)	ZINC, DIS-SOLVED (UG/L AS ZN) (01090)	URANIUM NATURAL DIS-SOLVED (UG/L AS U) (22703)
JUL												
24...	--	--	--	--	--	--	--	--	--	--	--	--
27...	<10	<1	.3	<1	<1	<1	<.7	<1	16.2	<1	<1	<1

DATE	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	ALUM-INUM BOT MAT <63U WS FIELD PERCENT (34790)	ANTI-MONY BOT MAT <63U WS FIELD (UG/G) (34795)	ARSENIC BOT MAT <63U WS FIELD (UG/G) (34800)	BARIUM BOT MAT <63U WS FIELD (UG/G) (34805)	BERYL-LIUM BOT MAT <63U WS FIELD (UG/G) (34810)	BISMUTH BOT MAT <180UWS FIELD (UG/G) (34816)	CADMIUM BOT MAT <63U WS FIELD (UG/G) (34825)	CHRO-MIUM BOT MAT <63U WS FIELD (UG/G) (34840)	COPPER BOT MAT <63U WS FIELD (UG/G) (34850)	CALCIUM BOT MAT <63U WS FIELD PERCENT (34830)
JUL												
24...	--	--	9.0	.4	18	250	.6	<1	<.1	77	47	4.5
27...	4	.02	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTH-CENTRAL ALASKA

600635152550900 KONA CREEK TRIBUTARY ABOVE LATERAL GLACIER NEAR TUXEDNI BAY--Continued

DATE	COBALT BOT MAT <63U WS FIELD (UG/G) (34845)	CERIUM BOT MAT <63U WS FIELD (UG/G) (34835)	EURO-PIUM BOT MAT <63U WS FIELD (UG/G) (34855)	GOLD BOT MAT <63U WS FIELD (UG/G) (34870)	GALLIUM BOT MAT <63U WS FIELD (UG/G) (34860)	HOLMIUM BOT MAT <63U WS FIELD (UG/G) (34875)	IRON BOT MAT <63U WS FIELD PERCENT (34880)	LANTHA-NUM BOT MAT <63U WS FIELD (UG/G) (34885)	LEAD BOT MAT <63U WS FIELD (UG/G) (34890)	LITHIUM BOT MAT <63U WS FIELD (UG/G) (34895)	MAGNE-SIUM BOT MAT <63U WS FIELD PERCENT (34900)	MANGA-NESE BOT MAT <63U WS FIELD (UG/G) (34905)
JUL												
24...	24	27	1	<1	15	1	4.8	11	4	20	1.7	1200
27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	MERCURY BOT MAT <63U WS FIELD (UG/G) (34910)	MOLYB-DENUM BOT MAT <63U WS FIELD (UG/G) (34915)	NEODYM-IUM BOT MAT <63U WS FIELD (UG/G) (34920)	NICKEL BOT MAT <63U WS FIELD (UG/G) (34925)	NIOBIUM BOT MAT <63U WS FIELD (UG/G) (34930)	PHOS-PHORUS BOT MAT <63U WS FIELD PERCENT (34935)	SCAN-DIUM BOT MAT <63U WS FIELD (UG/G) (34945)	SELE-NIUM BOT MAT <63U WS FIELD (UG/G) (34950)	SILVER BOT MAT <63U WS FIELD (UG/G) (34955)	SODIUM BOT MAT <63U WS FIELD PERCENT (34960)	STRON-TIUM BOT MAT <63U WS FIELD (UG/G) (34965)	SULFUR BOT MAT <63U WS FIELD PERCENT (34970)
JUL												
24...	.10	2.7	16	25	<4	.093	29	.2	.2	1.5	200	.27
27...	--	--	--	--	--	--	--	--	--	--	--	--

DATE	TANTA-LUM BOT MAT <63U WS FIELD (UG/G) (34975)	THORIUM BOT MAT <63U WS FIELD (UG/G) (34980)	TIN BOT MAT <63U WS FIELD (UG/G) (34985)	TITA-NIUM, SED, BM WS,<63U DRY WGT REC PERCENT (49274)	URANIUM BOT MAT <63U WS FIELD (UG/G) (35000)	VANA-DIUM BOT MAT <63U WS FIELD (UG/G) (35005)	YTTRIUM BOT MAT <63U WS FIELD (UG/G) (35010)	YTTER-BIUM BOT MAT <63U WS FIELD (UG/G) (35015)	ZINC BOT MAT <63U WS FIELD (UG/G) (35020)	CARBON, ORGANIC SED, BM WS,<63U DW, REC (PER-CENT) (49266)	CARBON, INORG, SED, BM WS,<63U DW, REC (PER-CENT) (49269)	CARBON, ORG + INORG, SED, BM WS,<63U DW, REC PERCENT (49267)
JUL												
24...	<1	<1	1	.51	.8	150	27	3	85	1.3	.02	1.4
27...	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15297930 CHOKOTONK RIVER AT MOUTH NEAR PORT ALSWORTH

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
OCT										
14...	1330	9	9	--	258	10	3045	1099	74	7.1
JUN										
20...	1300	9	9	454	944	10	3045	1099	40	7.2
JUL										
18...	1120	9	9	--	--	20	3045	1099	30	7.4

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT										
14...	.1	760	11.6	80	23	29	24	--	--	--
JUN										
20...	6.2	761	12.5	101	16	21	16	.001	.280	.005
JUL										
18...	4.5	757	14.3	111	14	14	11	.001	.111	<.002

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
OCT									
14...	--	--	--	--	--	9	6.3	--	--
JUN									
20...	<.10	E.10	.020	<.006	<.001	25	64	.41	<.2
JUL									
18...	E.10	.13	.168	<.006	.001	211	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15297970 TLIKAKILA RIVER AT MOUTH NEAR PORT ALSWORTH

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	GAGE HEIGHT (FEET) (00065)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
OCT											
14...	1115	9	9	255	--	871	10	3045	1099	91	7.3
MAY											
16...	1815	9	9	--	1.37	E600	10	3045	1099	76	7.6
JUN											
20...	1645	9	9	--	5.70	--	20	3045	1099	48	7.5
JUL											
18...	1315	9	9	--	9.27	--	20	3045	1099	37	7.6
AUG											
31...	1345	9	9	--	5.89	3090	20	3045	1099	44	7.5
31...	1400	9	9	--	--	--	--	--	--	--	--
SEP											
21...	1620	9	9	--	1.91	1070	20	3045	1099	71	7.5

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
OCT											
14...	.1	760	11.6	80	--	--	--	--	31	--	36
MAY											
16...	9.4	--	13.6	--	33	11.3	1.06	1.7	26	1.9	34
JUN											
20...	7.5	761	11.0	92	21	7.30	.59	1.0	18	1.5	23
JUL											
18...	5.2	757	14.0	111	16	5.67	.41	.6	18	1.0	20
AUG											
31...	4.8	765	13.0	101	17	6.06	.44	.6	17	1.0	21
31...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	7.9	756	11.0	93	28	9.67	.84	1.3	24	1.5	30

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
OCT											
14...	30	--	--	--	--	--	--	--	--	--	--
MAY											
16...	26	7.2	1.1	<.1	7.9	53	52	.001	.818	.002	E.10
JUN											
20...	18	4.5	.4	<.1	4.8	36	33	<.001	.252	.002	<.10
JUL											
18...	15	2.6	E.3	<.1	2.8	25	--	.001	.077	<.002	<.10
AUG											
31...	16	2.6	E.3	<.1	2.8	28	--	.001	.080	<.002	<.10
31...	--	--	--	--	--	--	--	--	--	--	--
SEP											
21...	23	7.1	.7	.2	5.3	48	42	<.001	.220	.004	<.10

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15297970 TLIKAKILA RIVER AT MOUTH NEAR PORT ALSWORTH--Continued

DATE	NITROGEN, AMMONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOSPHORUS TOTAL (MG/L AS P) (00665)	PHOSPHORUS DISSOLVED (MG/L AS P) (00666)	PHOSPHORUS ORTHO, DISSOLVED (MG/L AS P) (00671)	IRON, DISSOLVED (UG/L AS FE) (01046)	MANGANESE, DISSOLVED (UG/L AS MN) (01056)	SEDIMENT, SUSPENDED (MG/L) (80154)	SEDIMENT, DISCHARGE, SUSPENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)	CARBON, ORGANIC DISSOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTICULATE TOTAL (MG/L AS C) (00689)
OCT											
14...	--	--	--	--	--	--	9	21	--	--	--
MAY											
16...	E.10	.036	E.003	.003	60	6	29	--	--	.60	.2
JUN											
20...	<.10	.203	<.006	<.001	40	3	676	--	9	.41	<.2
JUL											
18...	<.10	.424	<.006	.003	30	5	528	--	70	E.24	.2
AUG											
31...	<.10	.244	<.006	.001	30	5	318	2650	64	E.17	.3
31...	--	--	--	--	--	--	--	--	--	.24	<.1
SEP											
21...	<.10	.077	<.006	.001	<10	3	118	341	--	.35	<.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15297980 CURRANT CREEK AT MOUTH NEAR PORT ALSWORTH

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
OCT										
17...	1720	9	9	176	279	10	3045	1099	74	7.3
JUN										
21...	1100	9	9	180	776	20	3045	1099	53	7.6
JUL										
18...	1510	9	9	--	2760	20	3045	1099	37	7.5
AUG										
29...	1215	9	9	160	1230	20	3045	--	36	7.4
SEP										
19...	1725	9	9	160	297	20	3045	--	71	7.4

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT										
17...	1.7	--	11.6	--	20	24	20	--	--	--
JUN										
21...	5.2	760	14.0	110	12	16	12	.001	.253	.006
JUL										
18...	5.4	756	13.8	110	15	16	12	.001	.087	.006
AUG										
29...	6.6	756	12.0	99	12	14	11	--	--	--
SEP										
19...	6.5	--	14.9	--	20	25	19	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
OCT									
17...	--	--	--	--	--	7	5.3	--	--
JUN									
21...	<.10	.11	E.007	E.003	<.001	9	19	1.1	<.2
JUL									
18...	<.10	.13	.158	<.006	.001	162	1210	--	--
AUG									
29...	--	--	--	--	--	282	937	--	--
SEP									
19...	--	--	--	--	--	3	2.4	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15297990 KIJIK RIVER AT MOUTH NEAR PORT ALSWORTH

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
OCT										
13...	1445	9	9	88.0	432	10	3045	1099	88	7.3
JUN										
21...	1630	9	9	90.0	586	20	3045	1099	84	7.6
JUL										
20...	0930	9	9	--	1230	20	3045	1099	78	7.8
AUG										
29...	1410	9	9	94.0	620	20	3045	--	80	7.7
SEP										
19...	1550	9	9	--	--	20	3045	--	85	7.6

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT										
13...	3.5	--	11.2	--	29	34	28	--	--	--
JUN										
21...	11.9	762	11.6	107	25	32	25	.001	.218	.007
JUL										
20...	8.8	756	11.6	101	26	34	26	.001	.159	.002
AUG										
29...	9.5	757	10.6	93	26	32	25	--	--	--
SEP										
19...	7.3	765	13.5	112	28	35	27	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
OCT									
13...	--	--	--	--	--	6	7.0	--	--
JUN									
21...	E.10	.12	<.008	<.006	<.001	3	4.7	.57	<.2
JUL									
20...	<.10	E.10	<.008	<.006	<.001	2	6.6	--	--
AUG									
29...	--	--	--	--	--	3	5.0	--	--
SEP									
19...	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15298010 TANALIAN RIVER AT MOUTH AT PORT ALSWORTH

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
OCT										
14...	1650	9	9	120	543	10	3045	1099	52	7.0
MAY										
15...	1500	9	9	72.0	179	20	3045	--	54	7.4
JUN										
21...	1820	9	9	--	750	20	3045	1099	47	7.7
JUL										
19...	1530	9	9	--	1640	20	3045	1099	46	7.8
AUG										
30...	1315	9	9	115	656	20	3045	--	45	7.3
SEP										
20...	1100	9	9	100	489	20	3045	--	50	7.2

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT										
14...	5.3	764	10.3	81	12	14	12	--	--	--
MAY										
15...	8.6	763	11.5	98	14	16	13	--	--	--
JUN										
21...	10.4	758	11.4	102	12	16	12	.001	.163	.005
JUL										
19...	11.5	743	10.1	95	12	14	11	.002	.141	.003
AUG										
30...	11.1	770	10.5	94	12	14	11	--	--	--
SEP										
20...	8.6	765	12.0	102	12	16	12	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
OCT									
14...	--	--	--	--	--	3	4.4	--	--
MAY									
15...	--	--	--	--	--	2	.97	--	--
JUN									
21...	<.10	.10	E.004	<.006	<.001	<1	--	.48	<.2
JUL									
19...	<.10	.11	<.008	<.006	<.001	<1	--	--	--
AUG									
30...	--	--	--	--	--	2	3.5	--	--
SEP									
20...	--	--	--	--	--	1	1.3	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15298050 CHULITNA RIVER NEAR PORT ALSWORTH

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)
OCT										
13...	1245	9	9	2570	20	3045	1099	76	7.4	1.0
JUN										
19...	1700	9	9	1340	20	3045	1099	69	7.4	10.0
JUL										
19...	1325	9	9	1570	20	3045	1099	78	7.8	11.0
AUG										
28...	1900	9	9	1320	20	3045	--	85	7.8	11.1
SEP										
22...	1300	9	9	3960	20	3045	--	66	7.0	8.1

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT									
13...	--	13.2	--	29	34	28	--	--	--
JUN									
19...	750	11.2	101	28	36	28	.001	.082	.008
JUL									
19...	739	10.3	96	33	42	32	.001	.071	<.002
AUG									
28...	754	10.0	92	36	47	36	--	--	--
SEP									
22...	760	12.2	103	25	31	24	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
OCT									
13...	--	--	--	--	--	5	35	--	--
JUN									
19...	.12	.17	.009	<.006	<.001	5	18	2.2	<.2
JUL									
19...	.15	.17	.009	<.006	.001	5	21	--	--
AUG									
28...	--	--	--	--	--	5	18	--	--
SEP									
22...	--	--	--	--	--	5	53	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15299000 LAKE CLARK OUTLET NEAR PORT ALSWORTH

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	PURPOSE SITE VISIT, (CODE) (50280)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE WATER (DEG C) (00010)
OCT										
12...	1620	9	9	10800	20	3045	1099	62	7.3	6.5
JUN										
19...	1230	9	9	8620	20	3045	1099	55	7.3	5.0
JUL										
19...	1115	9	9	17100	20	3045	1099	58	7.6	9.6
AUG										
28...	1645	9	9	11600	20	3045	--	58	7.8	11.3
SEP										
22...	1100	9	9	8690	20	3045	--	58	7.0	8.6

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)
OCT									
12...	--	11.2	--	21	24	20	--	--	--
JUN									
19...	745	11.8	94	20	26	20	<.001	.190	.002
JUL									
19...	742	11.4	103	22	27	21	.001	.164	.011
AUG									
28...	756	11.0	101	22	27	21	--	--	--
SEP									
22...	760	12.4	106	20	26	20	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
OCT									
12...	--	--	--	--	--	1	29	--	--
JUN									
19...	E.10	E.10	<.008	.083	<.001	<1	--	.81	<.2
JUL									
19...	<.10	.13	<.008	<.006	.006	1	46	--	--
AUG									
28...	--	--	--	--	--	3	94	--	--
SEP									
22...	--	--	--	--	--	5	117	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

590754155325400 - ALAGNAK RIVER AT KUKAKLEK LAKE OUTLET NEAR IGIUGIG

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	QUALITY ASSUR-ANCE DATA INDICA-TOR CODE (99111)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
AUG 11...	1400	9	7	223	1910	20	3054	30	38	7.1

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
AUG 11...	13.5	11.5	753	10.4	97	11	3.32	.77	1.9	E.2

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
AUG 11...	5.2	1.8	<.1	2.9	23	<.001	<.005	<.002	E.10	E.10

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
AUG 11...	.008	<.006	.003	<10	<2	1	5.2	.83	<.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

590105155354000 - NONVIANUK RIVER AT NONVIANUK LAKE OUTLET NEAR IGIUGIG

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
AUG 10...	1640	9	9	1830	20	3054	41	7.7	10.5	13.0

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)
AUG 10...	756	10.0	96	14	4.72	.63	1.5	.4	5.5	1.0

DATE	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)
AUG 10...	<.1	3.3	24	25	<.001	.015	<.002	E.10	E.10

DATE	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
AUG 10...	<.008	<.006	.002	<10	<2	2	9.9	.98	<.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15300700 ALAGNAK RIVER BELOW NONVIANUK RIVER NEAR IGIUGIG

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	SAMPLE LOC-ATION, CROSS SECTION (FT FM R BK) (72103)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)
JUN										
02...	1230	9	9	252	--	3140	20	3054	--	7.4
02...	1235	9	9	--	23.0	--	--	--	33	7.4
02...	1237	9	9	--	58.0	--	--	--	35	7.4
02...	1239	9	9	--	93.0	--	--	--	33	7.4
02...	1241	9	9	--	138.0	--	--	--	34	7.5
02...	1243	9	9	--	193.0	--	--	--	38	7.5
02...	1245	9	9	--	228.0	--	--	--	39	7.6
AUG										
09...	1450	9	9	341	--	3990	20	3054	40	7.5
09...	1451	9	9	--	116.0	--	--	--	39	7.6
09...	1452	9	9	--	146.0	--	--	--	35	7.4
09...	1453	9	9	--	181.0	--	--	--	39	7.5
09...	1455	9	9	--	236.0	--	--	--	42	7.5
09...	1457	9	9	--	296.0	--	--	--	42	7.6
09...	1459	9	9	--	336.0	--	--	--	42	7.6

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JUN										
02...	11.0	--	759	12.6	--	11	3.34	.74	1.9	E.2
02...	--	7.5	759	12.7	106	--	--	--	--	--
02...	--	7.5	759	12.6	105	--	--	--	--	--
02...	--	7.5	759	12.6	105	--	--	--	--	--
02...	--	8.0	759	12.6	107	--	--	--	--	--
02...	--	9.5	759	12.1	106	--	--	--	--	--
02...	--	9.5	759	12.0	105	--	--	--	--	--
AUG										
09...	--	--	764	10.5	--	13	3.95	.73	1.8	.3
09...	--	13.0	--	--	--	--	--	--	--	--
09...	--	13.0	--	--	--	--	--	--	--	--
09...	--	13.5	--	--	--	--	--	--	--	--
09...	--	14.5	--	--	--	--	--	--	--	--
09...	--	14.5	--	--	--	--	--	--	--	--
09...	--	14.5	--	--	--	--	--	--	--	--

DATE	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)
JUN										
02...	11.0	--	759	12.6	--	11	3.34	.74	1.9	E.2
02...	--	7.5	759	12.7	106	--	--	--	--	--
02...	--	7.5	759	12.6	105	--	--	--	--	--
02...	--	7.5	759	12.6	105	--	--	--	--	--
02...	--	8.0	759	12.6	107	--	--	--	--	--
02...	--	9.5	759	12.1	106	--	--	--	--	--
02...	--	9.5	759	12.0	105	--	--	--	--	--
AUG										
09...	--	--	764	10.5	--	13	3.95	.73	1.8	.3
09...	--	13.0	--	--	--	--	--	--	--	--
09...	--	13.0	--	--	--	--	--	--	--	--
09...	--	13.5	--	--	--	--	--	--	--	--
09...	--	14.5	--	--	--	--	--	--	--	--
09...	--	14.5	--	--	--	--	--	--	--	--
09...	--	14.5	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15300700 ALAGNAK RIVER BELOW NONVIANUK RIVER NEAR IGIUGIG--Continued

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUN										
02...	5.0	1.8	<.1	3.3	23	--	<.001	<.005	.005	E.10
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	5.5	1.5	<.1	3.2	24	24	<.001	.007	<.002	E.10
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
JUN										
02...	<.10	E.006	E.003	<.001	20	E2	3	25	1.1	.2
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
02...	--	--	--	--	--	--	--	--	--	--
AUG										
09...	E.10	E.004	<.006	.002	E10	<2	1	11	1.0	<.2
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--
09...	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15300730 ALAGNAK RIVER 27 MI ABOVE MOUTH NEAR MCCORMICK NEAR LEVELOCK

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	QUALITY ASSUR-ANCE DATA INDICA-TOR CODE (99111)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)
JUN											
01...	2030	9	9	203	2940	20	3054	--	40	7.0	12.5
27...	1830	9	9	215	6100	20	3054	10	42	7.1	14.5
AUG											
09...	1900	9	9	209	4440	20	3054	--	41	7.3	16.0

DATE	TEMPER-ATURE WATER (DEG C) (00010)	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)
JUN											
01...	10.0	770	11.7	103	15	4.37	1.04	2.4	--	.3	--
27...	12.5	764	11.8	110	14	4.16	.89	2.1	11	.4	12
AUG											
09...	14.0	773	--	--	15	4.44	.93	2.0	--	.4	--

DATE	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUN											
01...	--	4.8	1.8	<.1	4.8	26	25	<.001	<.005	<.002	.11
27...	10	4.8	1.7	.1	3.9	29	26	.001	<.005	<.002	.10
AUG											
09...	--	5.0	1.6	<.1	4.2	27	27	<.001	.008	<.002	E.10

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
JUN										
01...	<.10	.019	E.004	<.001	30	5	19	151	1.0	.3
27...	.11	.019	.008	.004	20	5	19	313	.94	<.2
AUG										
09...	E.10	.010	E.003	.003	30	5	5	60	1.1	<.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

SOUTHWEST ALASKA

15300770 ALAGNAK RIVER 13 MI ABOVE MOUTH NEAR LOWER BARGE NEAR LEVELOCK

DATE	TIME	MEDIUM CODE	SAMPLE TYPE	STREAM WIDTH (FT) (00004)	DIS-CHARGE, INST. CUBIC FEET PER SECOND (00061)	SAM-PLING METHOD, CODES (82398)	SAMPLER TYPE (CODE) (84164)	SPE-CIFIC CON-DUCT-ANCE (US/CM) (00095)	PH WATER WHOLE FIELD (STAND-ARD UNITS) (00400)	TEMPER-ATURE AIR (DEG C) (00020)	TEMPER-ATURE WATER (DEG C) (00010)
JUN											
01...	1340	9	9	348	3000	20	3054	43	7.0	11.5	9.0
27...	1340	9	9	738	6560	20	3054	45	7.1	16.5	13.0

DATE	BARO-METRIC PRES-SURE (MM OF HG) (00025)	OXYGEN, DIS-SOLVED (MG/L) (00300)	OXYGEN, DIS-SOLVED (PER-CENT SATUR-ATION) (00301)	HARD-NESS TOTAL (MG/L AS CACO3) (00900)	CALCIUM DIS-SOLVED (MG/L AS CA) (00915)	MAGNE-SIUM, DIS-SOLVED (MG/L AS MG) (00925)	SODIUM, DIS-SOLVED (MG/L AS NA) (00930)	ANC WATER UNFLTRD FET FIELD MG/L AS CACO3 (00410)	POTAS-SIUM, DIS-SOLVED (MG/L AS K) (00935)	BICAR-BONATE WATER DIS IT FIELD MG/L AS HCO3 (00453)	ALKA-LINITY WAT DIS TOT IT FIELD MG/L AS CACO3 (39086)
JUN											
01...	772	10.7	91	16	4.54	1.13	2.8	--	.6	--	--
27...	769	11.3	106	15	4.38	.98	2.2	12	.3	13	11

DATE	SULFATE DIS-SOLVED (MG/L AS SO4) (00945)	CHLO-RIDE, DIS-SOLVED (MG/L AS CL) (00940)	FLUO-RIDE, DIS-SOLVED (MG/L AS F) (00950)	SILICA, DIS-SOLVED (MG/L AS SIO2) (00955)	SOLIDS, RESIDUE AT 180 DEG. C DIS-SOLVED (MG/L) (70300)	SOLIDS, SUM OF CONSTI-TUENTS, DIS-SOLVED (MG/L) (70301)	NITRO-GEN, NITRITE DIS-SOLVED (MG/L AS N) (00613)	NITRO-GEN, NO2+NO3 DIS-SOLVED (MG/L AS N) (00631)	NITRO-GEN, AMMONIA DIS-SOLVED (MG/L AS N) (00608)	NITRO-GEN,AM-MONIA + ORGANIC TOTAL (MG/L AS N) (00625)
JUN										
01...	4.8	2.0	<.1	5.1	31	30	<.001	<.005	.003	.12
27...	4.8	1.8	<.1	4.3	26	25	.001	<.005	.003	.11

DATE	NITRO-GEN,AM-MONIA + ORGANIC DIS. (MG/L AS N) (00623)	PHOS-PHORUS TOTAL (MG/L AS P) (00665)	PHOS-PHORUS DIS-SOLVED (MG/L AS P) (00666)	PHOS-PHORUS ORTHO, DIS-SOLVED (MG/L AS P) (00671)	IRON, DIS-SOLVED (UG/L AS FE) (01046)	MANGA-NESE, DIS-SOLVED (UG/L AS MN) (01056)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	CARBON, ORGANIC DIS-SOLVED (MG/L AS C) (00681)	CARBON, ORGANIC PARTIC-ULATE TOTAL (MG/L AS C) (00689)
JUN										
01...	<.10	.027	E.005	.001	90	10	23	186	1.2	.3
27...	<.10	.020	E.004	.004	50	7	23	407	.98	<.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

YUKON ALASKA

15518020 HEALY CREEK AT SUNTRANA

DATE	TIME	STREAM WIDTH (FT) (00004)	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)	SEDI-MENT, SUS-PENDED (MG/L) (80154)	SEDI-MENT, DIS-CHARGE, SUS-PENDED (T/DAY) (80155)	SED. SUSP. SIEVE DIAM. % FINER THAN .062 MM (70331)
MAY											
16...	1439	37.0	18.26	112	10	3001	7.5	21.0	786	238	68
JUN											
14...	1930	68.0	19.55	416	10	3001	6.5	18.5	794	892	42
JUL											
20...	1630	39.0	18.29	126	10	3001	13.0	15.0	10	3.4	47
SEP											
26...	1500	74.0	19.20	315	10	3001	4.0	--	501	426	32

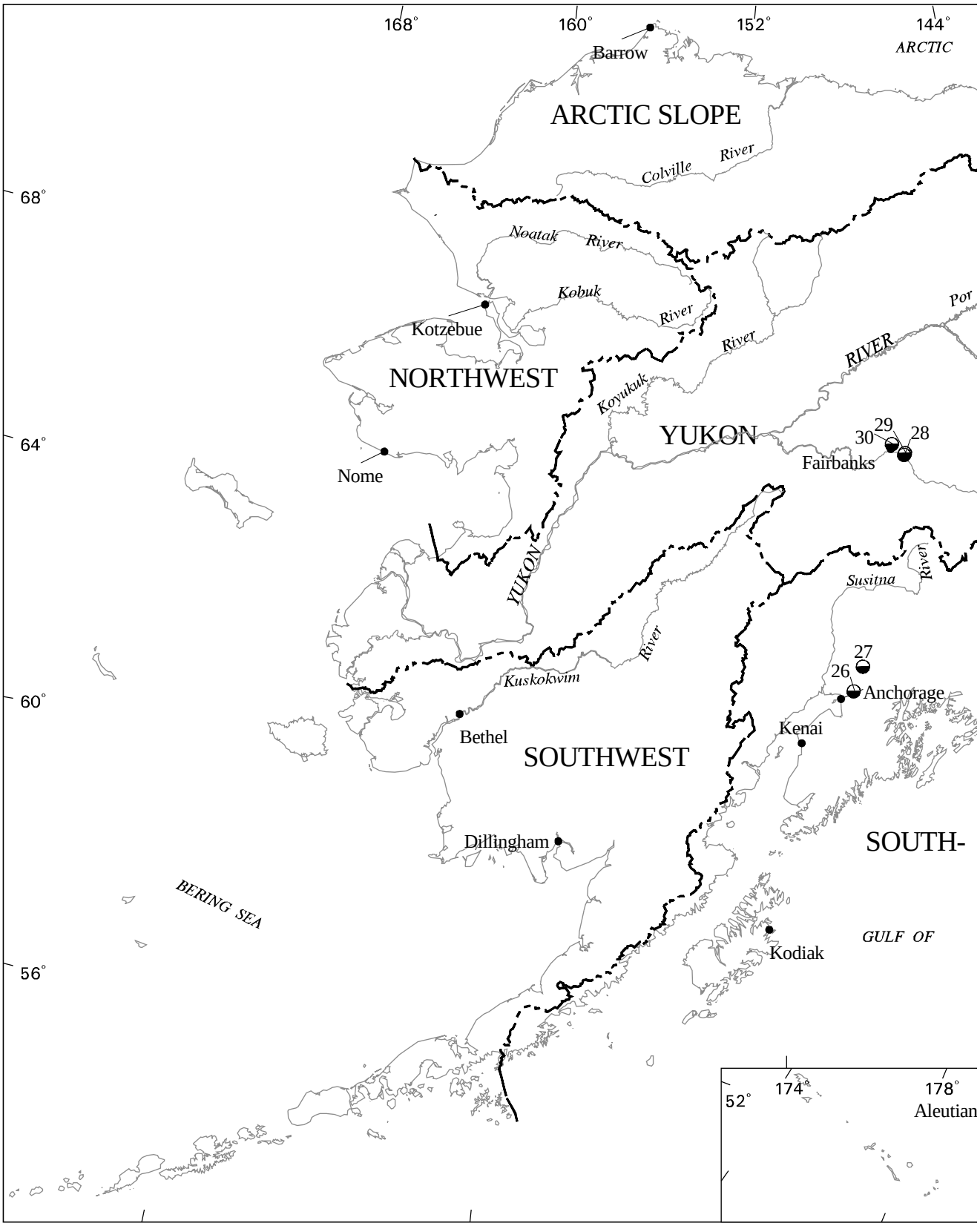
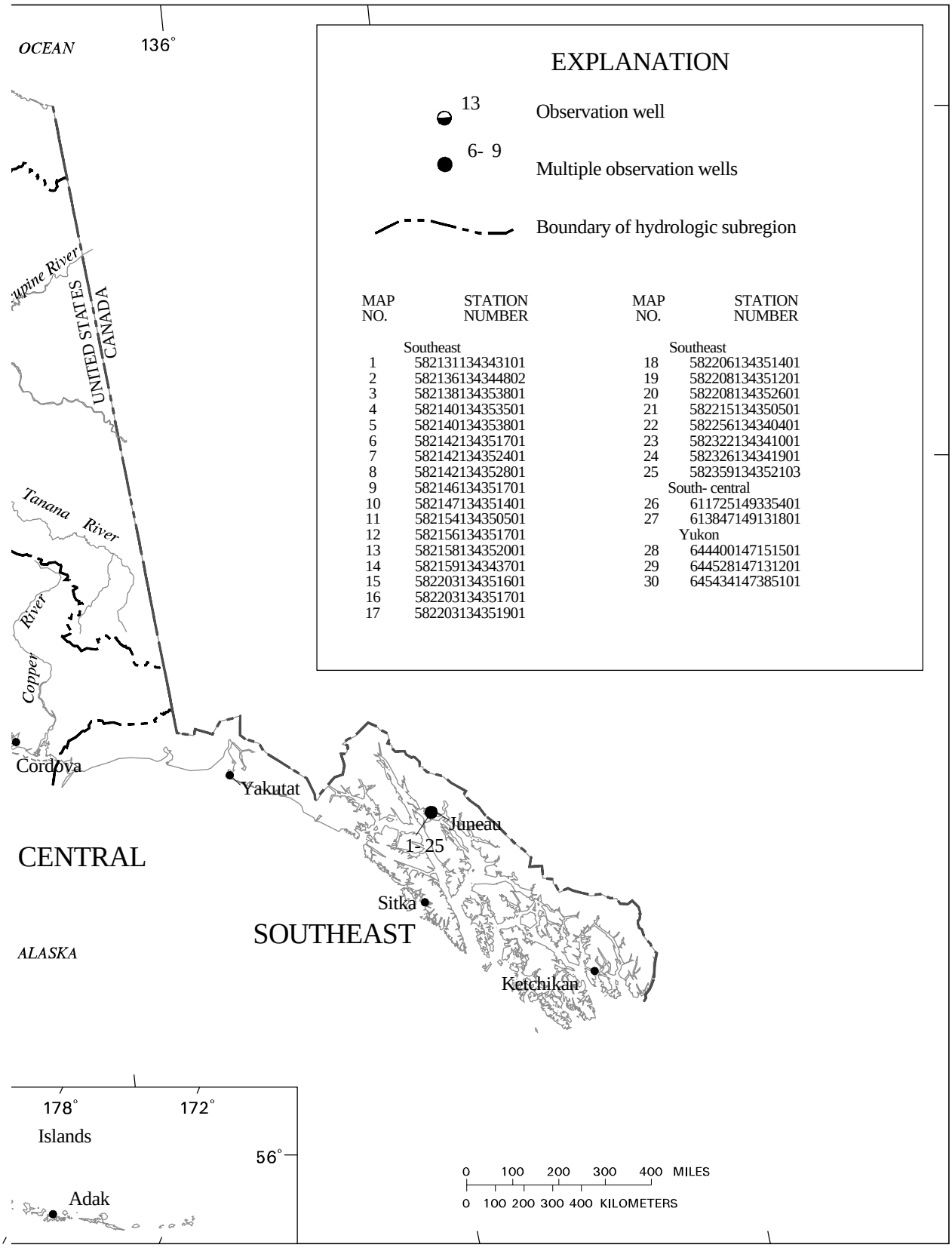
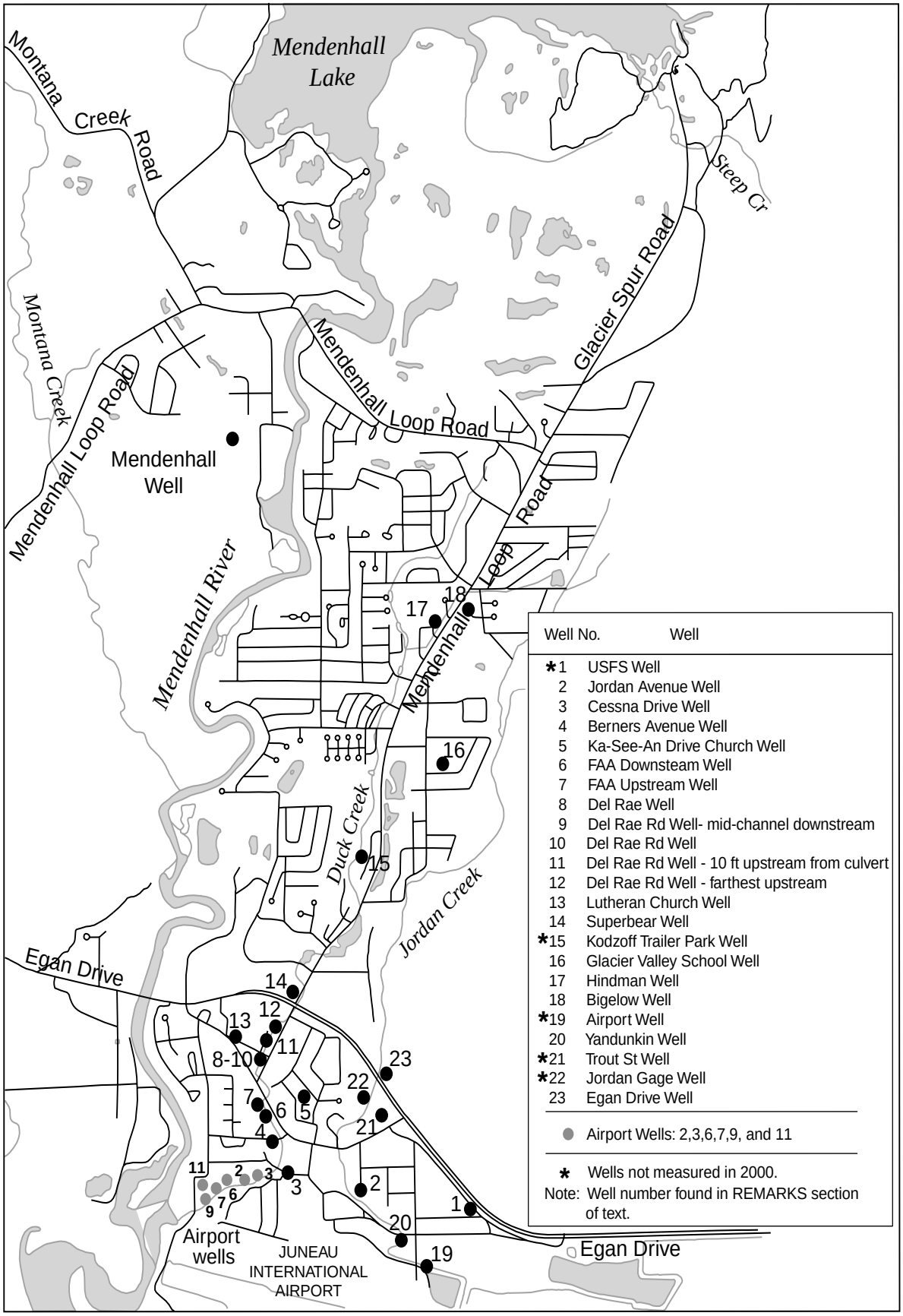


Figure 3. Locations of ground-water observation wells.



MAP NO.	STATION NUMBER
Southeast	
1	582131134343101
2	582136134344802
3	582138134353801
4	582140134353501
5	582140134353801
6	582142134351701
7	582142134352401
8	582142134352801
9	582146134351701
10	582147134351401
11	582154134350501
12	582156134351701
13	582158134352001
14	582159134343701
15	582203134351601
16	582203134351701
17	582203134351901
Southeast	
18	582206134351401
19	582208134351201
20	582208134352601
21	582215134350501
22	582256134340401
23	582322134341001
24	582326134341901
25	582359134352103
South- central	
26	611725149335401
27	613847149131801
Yukon	
28	644400147151501
29	644528147131201
30	645434147385101



Location of Mendenhall Valley wells.

SOUTHEAST ALASKA

JUNEAU

582131134343101. Local number, CD04006631ACDC2002.

LOCATION.--Lat 58°21′31″, long 134°34′31″, Hydrologic Unit 19010301. Well is located in Jordan Creek stream channel, 30 ft upstream from culvert under Yandukin Drive, and 300 ft west of the intersection of Yandukin Drive and Crest Street, Juneau. Owner: City and Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 3.15 ft, screened 0.15 to 3.15 ft, well point driven into streambed.

INSTRUMENTATION.--Intermittent measurement with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 15.72 ft above sea level (determined from levels survey). Measuring point: top of steel casing 3.85 ft above land-surface datum.

REMARKS.--Observation well driven in place by U.S. Geological Survey, designated as Duck Creek #20 (Yandunkin Well).

PERIOD OF RECORD.-June 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.37 ft above land-surface datum, June 29, 1999; lowest measured, 0.35 ft below land-surface datum, March 14, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAR 10	0.02
14	0.35

582136134344802. Local number, CD04006631ACBC1015.

LOCATION.--Lat 58°21′36″, long 134°34′48″, Hydrologic Unit 19010301. Well is located about 20 ft southeast of a trail running between the intersection of Jordan Avenue and Teal Street, about 50 ft south of Teal Street, and about 20 ft northeast of a footbridge over Jordan Creek, Juneau. Owner: City and Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 8 ft, screened 6 to 8 ft.

INSTRUMENTATION.--Intermittent measurements with chalked steel tape by U.S. Geological, University of Alaska-Southeast, or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 19.84 ft above sea level (determined by levels survey). Measuring point: top of steel casing, 0.6 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #2 (Jordan Avenue Well). Area near well is intermittently flooded.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.1 ft above land-surface datum, July 13, 1997; lowest measured, 3.28 ft below land-surface datum, March 12, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	0.25	SEP 7	0.14
21	0.39	24	0.74
DEC 26	2.59		

SOUTHEAST ALASKA

JUNEAU–Continued

582138134353801. Local number, CD04006631BCBC 1026.

LOCATION.--Lat 58°21′38″, long 134°35′38″, Hydrologic Unit 19010301. Well is located 90 ft north of right bank of Duck Creek and approximately 900 ft upstream from mouth of Duck Creek, about 350 ft southeast of southwest corner of Mendenhall Valley Treatment Plant, Juneau. Owner: City & Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 11.6 ft, screened 9.6 to 11.6 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by Alaska Department of Natural Resources personnel, November 1993 to June 1994. Measurement with chalked steel tape by U.S. Geological Survey and University of Alaska-Southeast personnel, May 2000 to current year.

DATUM.--Elevation of land-surface datum is 20.1 ft above sea level (determined by levels survey). Measuring point: Top of casing 1.60 ft above land-surface datum.

REMARKS.--Observation well drilled by Alaska Department of Natural Resources, designated as DC-9. Well also known as Airport Well #9. Water levels are affected by tides.

PERIOD OF RECORD.-- November 1993 to June 1994 and May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.2 ft below land-surface datum, November 12, 1993; lowest measured, 7.9 ft below land-surface datum, January 25, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 16	7.50
25	7.41
JUN 1	7.32
11	7.31
18	6.97
27	7.37
JUL 5	6.05
12	7.07

582140134353501. Local number, CD04006636CCBC 1001.

LOCATION.--Lat 58°21′40″, long 134°35′35″, Hydrologic Unit 19010301. Well is located 360 ft north of right bank of Duck Creek approximately 1,200 ft upstream from mouth of Duck Creek and about 110 ft southwest of southwest corner of Mendenhall Valley Treatment Plant, Juneau. Owner: City & Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 16 ft, screened 14 to 16 ft.

INSTRUMENTATION.--An automated water-level recorder was operated by Alaska Department of Natural Resources, November 1993 to March 1994. Intermittent measurement with chalked steel tape by Alaska Department of Natural Resources personnel, March to June 1994. Measurement with chalked steel tape by U.S. Geological Survey and University of Alaska-Southeast personnel, May 2000 to current year.

DATUM.--Elevation of land-surface datum is 23.4 ft above sea level (determined by levels survey). Measuring point: Top of casing 0.70 ft above land-surface datum.

REMARKS.--Observation well drilled by Alaska Department of Natural Resources, designated as DC-7. Well also known as Airport Well #7. Water levels are affected by tides.

PERIOD OF RECORD.-- November 1993 to June 1994 and May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.3 ft below land-surface datum, November 14, 1993; lowest measured, 11.65 ft below land-surface datum, February 26, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 16	10.63
25	10.49
JUN 1	10.40
11	10.30
18	10.02
27	10.30
JUL 5	9.01
12	9.99

SOUTHEAST ALASKA

JUNEAU–Continued

582140134353801. Local number, CD04006636CCBC 2001.

LOCATION.--Lat 58°21′40″, long 134°35′38″, Hydrologic Unit 19010301. Well is located 275 ft north of right bank of Duck Creek, about 150 ft southeast of southwest corner of Mendenhall Valley Treatment Plant and approximately 1,000 ft upstream from mouth of Duck Creek, Juneau. Owner: City & Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 15.6 ft, screened 13.6 to 15.6 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by Alaska Department of Natural Resources personnel, November 1993 to June 1994. Measurement with chalked steel tape by U.S. Geological Survey and University of Alaska-Southeast personnel, May 2000 to current year.

DATUM.--Elevation of land-surface datum is 22.4 ft above sea level (determined by levels survey). Measuring point: Top of casing 1.22 ft above land-surface datum.

REMARKS.--Observation well drilled by Alaska Department of Natural Resources, designated as DC-11. Well also known as Airport Well #11. Water levels are affected by tides. Well deepened to 15.6 ft on November 29, 1993.

PERIOD OF RECORD.-- November 1993 to June 1994 and May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.34 ft below land-surface datum, July 5, 2000; lowest measured, 11.8 ft below land-surface datum, January 25, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 16	9.91
25	11.01
JUN 1	10.79
11	10.73
18	10.28
27	10.76
JUL 5	9.34
12	10.43

582142134351701. Local number, CD04006631DCBD 1024.

LOCATION.--Lat 58°21′42″, long 134°35′17″, Hydrologic Unit 19010301.Well is located 80 ft north of right bank of Duck Creek and approximately 2,000 ft upstream from mouth of Duck Creek, about 500 ft southwest of airport gate “S” on Alex Holden Way, Juneau. Owner: City & Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 10.5 ft, screened 8.5 to 10.5 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by Alaska Department of Natural Resources personnel, November 1993 to June 1994. Measurement with chalked steel tape by U.S. Geological Survey and University of Alaska-Southeast personnel, May 2000 to current year.

DATUM.--Elevation of land-surface datum is 20.8 ft above sea level (determined by levels survey). Measuring point: Top of casing 2.56 ft above land-surface datum.

REMARKS.--Observation well drilled by Alaska Department of Natural Resources, designated as DC-3. Well also known as Airport Well #3. Water levels are affected by tides.

PERIOD OF RECORD.-- November 1993 to June 1994, May 2000 to current year.

EXTREMES OUTSIDE PERIOD.--Highest water level measured, 2.9 ft below land-surface datum, November 10, 1993; lowest measured, 5.4 ft below land-surface datum, January 25, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 16	5.28
25	4.80
JUN 1	4.99
11	4.98
18	4.98
27	4.75
JUL 5	4.42
12	4.77

SOUTHEAST ALASKA

JUNEAU–Continued

582142134352401. Local number, CD04006631CDAD 1023.

LOCATION.--Lat 58°21′42″, long 134°35′24″, Hydrologic Unit 19010301. Well is located 200 ft north of right bank of Duck Creek and approximately 2,000 ft upstream from mouth of Duck Creek, about 900 ft southwest of airport gate “S” on Alex Holden Way, Juneau. Owner: City & Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 17.9 ft, screened 15.9 to 17.9 ft.

INSTRUMENTATION.--An automated water level recorder was operated by Alaska Department of Natural Resources from November to December 1993. Intermittent measurement with chalked steel tape by Alaska Department of Natural Resources personnel from December 1993 to June 1994. Intermittent measurement with chalked steel tape by U.S. Geological Survey and University of Alaska-Southeast personnel, May 2000 to current year.

DATUM.--Elevation of land-surface datum is 23.8 ft above sea level (determined by levels survey). Measuring point: Top of casing 2.22 ft above land-surface datum.

REMARKS.--Observation well drilled by Alaska Department of Natural Resources, designated as DC-2. Well also known as Airport Well #2. Water levels are affected by tides.

PERIOD OF RECORD.-- November 1993 to June 1994 and May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.-- Highest water level measured, 6.1 ft below land-surface datum, November 14, 1993; lowest measured, 9.5 ft below land-surface datum, January 25, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 16	9.36
25	8.87
JUN 1	8.99
11	8.95
18	8.92
27	8.78
JUL 5	8.05
12	8.66

582142134352801. Local number, CD04006631DDAD 1025.

LOCATION.--Lat 58°21′42″, long 134°35′28″, Hydrologic Unit 19010301. Well is located 410 ft north of right bank of Duck Creek approximately 1,900 ft upstream from mouth of Duck Creek and about 1,200 ft southwest of airport gate “S” on Alex Holden Way, Juneau. Owner: City & Borough of Juneau

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 17.8 ft, screened 15.8 to 17.8 ft.

INSTRUMENTATION.--Measurement with chalked steel tape by Alaska Department of Natural Resources personnel, November 1993 to June 1994. Measurement with chalked steel tape by U.S. Geological Survey and University of Alaska-Southeast personnel, May 2000 to current year.

DATUM.--Elevation of land-surface datum is 22.8 ft above sea level (determined by levels survey). Measuring point: Top of casing 2.37 ft above land-surface datum.

REMARKS.--Observation well drilled by Alaska Department of Natural Resources, designated as DC-6. Well also known as Airport Well #6. Water levels are affected by tides.

PERIOD OF RECORD.-- November 1993 to June 1994 and May 2000 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.9 ft below land-surface datum, November 12, 1993; lowest measured, 9.5 ft below land-surface datum, January 25, 1994.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAY 16	9.22
25	8.84
JUN 1	8.98
11	8.84
18	8.74
27	8.74
JUL 5	7.68
12	8.5

SOUTHEAST ALASKA

JUNEAU–Continued

582146134351701. Local number, CD04006631BBDD1016.

LOCATION.--Lat 58°21′46″, long 134°35′17″, Hydrologic Unit 19010301. Well is located near the left bank of Duck Creek, about 10 ft northwest of the intersection of Cessna Drive and Alex Holden Way, Juneau. Owner: City and Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 2 in., depth 12 ft, screened 10 to 12 ft.

INSTRUMENTATION.--Intermittent measurements with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast, or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 25.35 ft above sea level (determined by levels survey). Measuring point: top of casing 0.88 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #3 (Cessna Drive Well).

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.9 ft below land-surface datum, July 13, 1997; lowest measured, 10.06 ft below land-surface datum, March 21, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	7.53	JUN 11	8.81
23	7.10	18	8.90
NOV 20	8.02	26	8.60
DEC 26	7.33	JUL 5	8.39
30	8.16	12	8.65
MAR 10	9.78	20	8.62
14	9.99	30	7.72
21	10.06	AUG 6	8.06
APR 8	8.14	17	8.24
16	8.56	SEP 7	7.46
MAY 15	9.16	24	8.01
30	8.67		

582147134351401. Local number, CD04006631BBDB1017.

LOCATION.--Lat 58°21′47″, long 134°35′14″, Hydrologic Unit 19010301. Well is located near the right bank of Duck Creek, about 70 ft downstream of the Berners Avenue crossing, Juneau. Owner: City and Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 2 in., depth 8.8 ft, screened 6.8 to 8.8 ft.

INSTRUMENTATION.--Intermittent measurements with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 19.52 ft above sea level (determined by levels survey). Measuring point: Top of PVC pipe casing 1.9 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #4 (Berners Avenue Well). Water from well was sampled for water quality on September 5, 1997, January 29, 1998, and September 3, 1998.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.20 ft below land-surface datum, September 3, 1998; lowest measured, 4.12 ft below land-surface datum, March 21, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	0.87	JUN 11	2.78
23	.44	18	2.82
NOV 20	1.54	26	2.26
DEC 5	1.00	JUL 5	1.81
26	0.75	12	2.40
30	1.56	20	2.32
MAR 21	4.12	30	1.08
APR 8	1.66	AUG 6	1.44
16	2.31	16	1.65
MAY 15	3.20	SEP 7	0.69
30	2.48	24	1.42

SOUTHEAST ALASKA

JUNEAU–Continued

582154134350501. Local number, CD04006630CDCB1027.

LOCATION.--Lat 58°21′54″, long 134°35′05″, Hydrologic Unit 19010301. Well is about 15 ft east of a tributary to Duck Creek and about 1,200 ft northwest of Jordan Creek, 90 ft southwest of the First Church of God on Ka-See-An Drive, Juneau. Owner: First Church of God.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 17.5 ft, screened 15.5 to 17.5 ft using a sandpoint.

INSTRUMENTATION.--Intermittent measurements with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast, or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 26.30 ft above sea level (determined by levels survey). Measuring point: top of casing 2.05 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #5 (Ka-See-An Drive Church Well).

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.41 ft below land-surface datum, October 23, 1999; lowest measured, 9.62 ft below land-surface datum, March 12, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	5.01	DEC 26	5.00
23	4.41		

582156134351701. Local number, CD04006631BBBA1018.

LOCATION.--Lat 58°21′56″, long 134°35′17″, Hydrologic Unit 19010301. Well is located in Duck Creek channel about 90 ft downstream from driveway crossing to Federal Aviation Administration building, about 50 ft southwest of Old Glacier Highway, Juneau. Owner: Federal Aviation Administration.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 11 ft, screened 9 to 11 ft.

INSTRUMENTATION.--Intermittent measurements with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 18.48 ft above sea level (determined by levels survey). Measuring point: top of casing 1.86 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #6 (FAA Downstream Well). Well is in stream channel and is intermittently flooded.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, unknown, stream stage was higher than top of well casing during numerous periods since May 1997; lowest measured, 3.62 ft below land-surface datum, March 13, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	X	JUN 18	1.82
23	X	26	-0.71
DEC 25	X	JUL 5	X
30	X	12	0.48
MAR 14	3.60	20	X
21	3.60	30	X
APR 8	X	AUG 6	X
16	0.06	16	X
MAY 15	2.60	SEP 7	X
30	X	24	X
JUN 11			

Minus sign indicates that the water level was above land-surface datum.
X surface-water affected, stream stage was higher than top of well casing

SOUTHEAST ALASKA

JUNEAU—Continued

582158134352001. Local number, CD04006630CCCD2017.

LOCATION.--Lat 58°21′58″, long 134°35′20″, Hydrologic Unit 19010301. Well is located in Duck Creek channel, 20 ft upstream from driveway crossing to Federal Aviation Administration building, about 50 ft southwest of Old Glacier Highway, Juneau. Owner: Federal Aviation Administration.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 12 ft, screened 10 to 12 ft.

INSTRUMENTATION.--Intermittent measurements with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast, or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 19.62 ft above sea level (determined by levels survey). Measuring point: top of casing 1.2 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #7 (FAA Upstream Well). Well is in stream channel and is intermittently flooded.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, unknown, stream stage was higher than top of well casing during many periods since 1997; lowest measured, 3.63 ft below land-surface datum, July 2, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 199 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	X	JUN 18	1.49
23	X	26	-1.11
DEC 25	X	JUL 5	X
30	X	12	-0.50
MAR 14	2.69	20	X
21	2.99	30	X
APR 8	X	AUG 6	X
16	X	16	X
MAY 15	1.87	SEP 7	X
30	X	24	X
JUN 11	0.68		

Minus sign indicates that the water level was above land-surface datum.
X surface-water affected, stream stage was higher than top of well casing

582159134343701. Local number CD04006630DCCA1035.

LOCATION.--Lat 58°21′59″, long 134°34′37″, Hydrologic Unit 19010301. Well is located in Jordan Creek stream channel, 80 ft upstream from footbridge over Jordan Creek on upstream side of Egan Expressway. Owner: City and Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 3.97 ft, screened 0.97 to 3.97 ft, well point driven into streambed.

INSTRUMENTATION.--Intermittent measurement with chalked steel tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land-surface datum is 23.51 ft above sea level (determined from levels survey). Measuring point: top of steel casing 3.03 ft above land-surface datum.

REMARKS.--Observation well driven in place by U.S. Geological Survey, designated as Duck Creek #23 (Egan Drive Well).

PERIOD OF RECORD.-June 1999 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.38 ft above land-surface datum, June 29, 1999; lowest measured, 0.05 ft below land-surface datum, March 14, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL)(FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
MAR 14	0.05

SOUTHEAST ALASKA

JUNEAU–Continued

582203134351601. Local number, CD04006630CCDB1028.

LOCATION.--Lat 58°22′03″, long 134°35′16″, Hydrologic Unit 19010301. Well is located on left bank of Duck Creek about 55 ft downstream from Del Rae Road crossing, 25 ft from Mendenhall Loop Road, and 0.25 mi. south of the intersection of Mendenhall Loop Road and Egan Drive, Juneau. Owner: City and Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.5 in., depth 14 ft, screened 12 to 14 ft.

INSTRUMENTATION.--Intermittent measurement with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 23.10 ft above sea level (determined by levels survey). Measuring point: top of steel casing 1.56 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #10 (Del Rae Road Well).

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, unknown, stream stage was above top of well casing on December 26, 1999; lowest measured, 7.59 ft below land-surface datum, March 12, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	1.04	MAY 15	6.48	JUL 12	5.24
23	0.66	22	4.26	20	3.84
DEC 26	X	30	4.53	30	2.61
30	0.22	JUN 11	6.67	AUG 6	2.87
MAR 21	7.57	18	5.66	SEP 7	0.84
APR 8	0.54	26	3.73	34	1.58
16	3.21	JUL 5	3.26		

X surface-water affected, stream stage was higher than top of well casing

582203134351701. Local number, CD04006630CCBD3015.

LOCATION.--Lat 58°22′03″, long 134°35′17″, Hydrologic Unit 19010301. Well is located on left bank of Duck Creek, 30 ft downstream from Del Rae Road crossing, and 0.25 mi. south of the intersection of Mendenhall Loop Road and Egan Drive, Juneau. Owner: City and Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.5 in., depth 11 ft, slotted 9 to 11 ft.

INSTRUMENTATION.--Intermittent measurements with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 22.14 ft above sea level (determined by levels survey). Measuring point: Top of PVC casing 1.3 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #9 (Del Rae Road Well, mid-channel downstream). Well is near stream channel and is intermittently flooded

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, unknown, streamstage was higher than top of well during many periods since May 1997; lowest measured, 8.39 ft below land-surface datum, May 6, 1997.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	6.50	MAY 15	5.68	JUL 20	1.08
23	4.70	22	1.40	30	1.17
DEC 26	-.20	JUN 11	4.37	AUG 6	X
30	.48	18	2.95	17	X
MAR 14	6.65	26	1.22	SEP 7	X
21	6.74	JUL 5	.66	24	X
APR 8	2.69	12	2.91	30	1.56
16	2.09				

Minus sign indicates that the water level was above land-surface datum.
X surface-water affected, stream stage was higher than top of well casing

SOUTHEAST ALASKA

JUNEAU–Continued

582203134351901. Local number, CD04006630CCBD2015.

LOCATION.--Lat 58°22′03″, long 134°35′19″, Hydrologic Unit 19010301. Well is located on right bank of Duck Creek, 75 ft downstream from Del Rae Road crossing and 0.25 mi. south of the intersection of Mendenhall Loop Road and Egan Drive, Juneau. Owner: City & Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 2 in., depth 15 ft, screened 12 to 15 ft.

INSTRUMENTATION.--Intermittent measurements with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast, or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 33 ft above sea level (determined from topographic map). Measuring point: top of casing 1.66 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #8 (Del Rae Well). Well is near stream channel and is intermittently flooded.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, unknown, stream stage was higher than top of well casing during numerous periods since1997; lowest measured, 9.09 ft below land-surface datum, March 21, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	X	APR 8	3.61
DEC 26	X	16	4.58
30	1.57	MAY 15	7.95
MAR 21	9.09	SEP 7	X
24	X		

X Surface-water affected, stream stage was higher than top of well casing

582206134351401. Local number, CD04006630CCAC1029.

LOCATION.--Lat 58°22′06″, long 134°35′14″, Hydrologic Unit 19010301. Well is located in Duck Creek stream channel, 12 ft upstream from Del Rae Road crossing, 900 ft southwest of intersection of Mendenhall Loop Road and Egan Drive, Juneau. Owner: City and Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.5 in., depth 12 ft, slotted 10 to 12 ft. Unknown debris placed inside well casing at about 3.6 ft below land surface sometime prior to March 12, 1998. Water levels cannot be determined below the obstruction, but water levels above the obstruction appear to representative of aquifer conditions.

INSTRUMENTATION.--Intermittent measurement with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 21.25 ft above sea level (determined by levels survey). Measuring point: Top of casing 1.8 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #11 (Del Rae Road Well, 10 ft upstream from culvert). Well is in stream channel and is intermittently flooded.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.4 ft above land-surface datum (surface-water affected, stream stage was higher than top of well casing), July 13, 1997; lowest measured, 5.45 ft below land-surface datum, March 12, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	-1.50	JUL 12	1.64
DEC 26	-1.50	20	-0.55
APR 8	-0.39	30	-1.22
16	0.38	AUG 8	-0.97
MAY 15	>3.55 (O)	16	-0.55
JUN 11	>3.54 (O)	SEP 7	-1.47
26	-0.13	24	-1.13
JUL 5	-0.55		

Minus sign indicates that the water level was above land-surface datum.
O Obstruction

SOUTHEAST ALASKA

JUNEAU–Continued

582208134351201. Local number, CD04006630CCAB1030.

LOCATION.--Lat 58°22′08″, long 134°35′12″, Hydrologic Unit 19010301. Well is located mid-channel of Duck Creek, about 130 ft upstream from Del Rae Road crossing, and 700 ft southwest of the intersection of Mendenhall Loop Road and Egan Drive, Juneau. Owner: City and Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.5 in., depth 11 ft, slotted 7 to 10 ft.

INSTRUMENTATION.-- Measurement with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast, or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 21.22 ft above sea level (determined by levels survey). Measuring point: top of casing 2.14 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #12 (Del Rae Road Well, farthest upstream). Well is in stream channel and is intermittently flooded.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level, unknown, stream stage was above top of well casing during many periods since 1997; lowest measured, 5.46 ft below land-surface datum, March 21, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	X	APR 16	-0.10	JUL 12	0.64
23	X	MAY 22	X	20	X
DEC 26	X	30	X	30	X
30	X	JUN 11	2.89	AUG 6	X
MAR 14	5.39	18	X	16	X
21	5.46	26	X	SEP 7	X
APR 8	-0.41	JUL 5	X	24	X

Minus sign indicates that the water level was above land-surface datum.
X surface-water affected, stream stage was higher than top of well casing

582208134352601. Local number, CD04006630CCBB1031.

LOCATION.--Lat 58°22′08″, long 134°35′26″, Hydrologic Unit 19010301. Well is located near a church parking lot, 55 ft northeast of Del Rae Road, and 105 ft southeast of the Lutheran Church, Juneau. Owner: Lutheran Church.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 15 ft, screened 13 to 15 ft, casing has filled in with sediment to about 12.2 ft.

INSTRUMENTATION.--Intermittent measurement with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast, or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 26.74 ft above sea level (determined by levels survey). Measuring point: top of steel coupling at top of casing 2.8 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #13 (Lutheran Church Well).

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.58 ft below land-surface datum, October 23, 1999; lowest measured, dry, March 21 and April 8, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	7.24	MAY 22	9.36	JUL 12	9.01
23	6.58	30	9.54	20	8.35
DEC 30	7.52	JUN 11	10.12	30	6.90
MAR 21	>12.20 D	14	10.56	AUG 6	7.45
APR 8	>12.20 D	18	9.46	17	7.43
16	9.47	26	8.68	SEP 7	6.70
MAY 15	11.33	JUL 5	7.85	24	8.92

D Dry

SOUTHEAST ALASKA

JUNEAU–Continued

582215134350501. Local number, CD04006630CBAD1032.

LOCATION.--Lat 58°22′15″, long 134°35′05″, Hydrologic Unit 19010301. Well is near right bank of Duck Creek, 20 ft upstream from a footbridge and 225 ft upstream from the intersection of Egan Drive and Mendenhall Loop Road, Juneau. Owner: City & Borough of Juneau.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 12 ft, screened 10 to 12 ft.

INSTRUMENTATION.--Intermittent measurements by U.S. Forest Service, U.S. Geological Survey or University of Alaska-Southeast personnel.

DATUM.--Elevation of land-surface datum is 25.04 ft above sea level (determined by levels survey). Measuring point: top of casing 0.70 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #14 (Superbear Well).

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 1.17 ft below land-surface datum, October 9, 1999; lowest measured, 3.80 ft below land-surface datum, March 21, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	1.17	22	2.65	JUL 12	2.06
23	1.18	30	2.50	20	2.11
DEC 26	1.51	JUN 11	2.43	30	1.89
30	1.37	14	2.46	AUG 6	1.80
MAR 21	3.80	18	2.48	16	1.81
APR 8	2.96	26	2.33	SEP 7	1.59
16	2.65	JUL 5	2.06	24	1.32
MAY 15	2.69				

582256134340401. Local number, CD04006619DDBD1054.

LOCATION.--Lat 58°22′56″, long 134°34′04″, Hydrologic Unit 19010301. Well is located at Glacier Valley School, at southwest corner of baseball field, 33 ft north of Evergreen Parkway, 120 ft southeast of a covered basketball court, and 460 ft east of Tongass Boulevard, Juneau. Owner: Glacier Valley School.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 2 in., depth 11.2 ft, screened 6.9 ft to 11.2 ft, casing has filled in with sediment to about 9.4 ft.

INSTRUMENTATION.--Intermittent measurements with chalked steel tape by U.S. Geological Survey or University of Alaska-Southeast personnel.

DATUM.--Elevation of land-surface datum is 39.33 ft above sea level (determined from levels survey). Measuring point: top of casing 1.8 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #16 (Glacier Valley School Well).

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.00 ft below land-surface datum, December 26, 1999; lowest measured, dry, March 21, 2000.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	2.65	MAY 15	4.28	JUL 12	4.39
23	2.09	22	3.17	20	3.53
NOV 4	2.60	30	3.16	30	2.79
DEC 26	2.00	JUN 11	4.35	AUG 6	3.70
30	3.86	14	4.49	16	3.90
MAR 21	> 9.40 D	18	3.87	SEP 7	2.55
APR 8	2.76	26	3.92	24	4.38
16	3.83	JUL 5	3.89		

D Dry

SOUTHEAST ALASKA

JUNEAU–Continued

582322134341001. Local number, CD04006619ACAB1050.

LOCATION.--Lat 58°23′20″, long 134°34′17″, Hydrologic Unit 19010301. Well is located at 3737 North El Camino Street, 30 ft west of the southwest corner of the house and 70 ft from North El Camino Street, Juneau. Owner: Nicholas Hindman.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 2 in., depth drilled 15 ft, cased to 4.7 ft, screened 2.5 to 4.7 ft.

INSTRUMENTATION.--Intermittent measurement with chalked steel tape by U.S. Geological Survey, University of Alaska-Southeast or U.S. Forest Service personnel.

DATUM.--Elevation of land-surface datum is 43.87 ft above sea level (determined from levels survey). Measuring point: top of casing 1.2 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #17 (Hindman Well). Well sampled for water quality, September 3, 1997, January 26, 1998, and September 3, 1998.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.40 ft below land-surface datum, October 23, 1999; lowest measured, 2.53 ft below land-surface datum, March 12, 1998.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	0.75	APR 16	1.95	JUL 12	1.90
23	0.40	MAY 15	1.78	20	1.44
NOV 4	1.11	22	1.14	30	1.26
DEC 26	0.99	30	1.33	AUG 6	1.60
30	1.51	JUN 11	1.89	16	1.57
MAR 14	2.46	18	1.52	SEP 7	1.06
21	1.95	26	1.76	24	1.30
APR 8	1.39	JUL 5	1.73		

582326134341901. Local number, CD04006619ADBA1011.

LOCATION.--Lat 58°23′36″, long 134°34′19″, Hydrologic Unit 19010301. Well is located 6 ft southeast of a bike path, 25 ft southeast of Mendenhall Loop Road, and about 450 ft southwest of intersection of Mendenhall Loop Road and Valley Boulevard, Juneau. Owner: Bruce B. Bigelow.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 1.25 in., depth 15 ft, screened 11 to 15 ft.

INSTRUMENTATION.--Intermittent measurement with chalked steel tape by U.S. Geological Survey or University of Alaska-Southeast personnel.

DATUM.--Elevation of land-surface datum is 45.76 ft above sea level (determined from levels survey). Measuring point: top of casing 1.3 ft above land-surface datum.

REMARKS.--Observation well drilled by U.S. Geological Survey, designated as Duck Creek #18 (Bigelow Well).

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.01 ft above land-surface datum, July 25 and August 12, 1997; lowest measured, 2.55 ft below land-surface datum, April 23, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL	DATE	WATER LEVEL
OCT 9	0.54	JUN 14	1.31
23	0.58	18	1.10
NOV 4	0.50	26	1.28
DEC 26	0.85	JUL 5	1.27
30	0.42	12	1.39
MAR 21	1.40	20	1.37
APR 8	1.34	30	1.21
16	1.40	AUG 6	1.13
MAY 15	1.40	16	0.99
22	1.17	SEP 7	0.58
30	0.90	24	0.39
JUN 11	1.38		

SOUTHEAST ALASKA

JUNEAU–Continued

582359134352103. Local number, CD04006618CBCA3019 85177.

LOCATION.--Lat 58°23′59″, long 134°35′21″, Hydrologic Unit 19010301, Mendenhall Loop Road, Juneau. Owner: Harlan Olsen.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6 in., depth 40 ft, screened 30 to 40 ft.

INSTRUMENTATION.--Continuous strip-chart recorder November 1983 to August 1984. Digital recorder August 1984 to April 1997. Electronic datalogger and submersible pressure transducer August 1997 to September 1998. Electronic datalogger and encoder used September 1998 to current year.

DATUM.--Elevation of land-surface datum is 50.53 ft above sea level (determined by levels survey). Measuring point: Top of casing 0.77 ft above land-surface datum.

REMARKS.--Record good except for November 27-December 3, which are missing due to equipment malfunction. Well also known as Mendenhall well.

PERIOD OF RECORD.--November 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level recorded 4.89 ft below land-surface datum, September 25, 1990; lowest, 13.54 ft below land-surface datum, February 2, 1997.

EXTREMES FOR CURRENT YEAR.--Highest water level recorded, 6.02 ft below land-surface datum, December 28; lowest recorded, 12.24 ft below land-surface datum, March 16-17.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.75	6.57	---	6.82	9.91	11.85	9.05	10.62	10.55	8.26	7.25	8.02
2	6.67	6.57	---	7.13	10.14	11.85	9.05	10.59	10.55	8.37	7.33	8.18
3	6.67	6.72	---	7.34	10.23	11.88	9.08	10.58	10.56	8.46	7.59	8.49
4	6.67	7.00	9.82	7.52	10.29	11.85	9.20	10.64	10.59	8.68	7.80	7.11
5	6.73	7.19	9.75	7.94	10.44	11.85	9.29	10.70	10.59	8.80	7.96	6.85
6	6.85	7.41	9.75	8.02	10.60	11.83	9.38	10.74	10.59	8.87	8.05	6.58
7	6.86	7.67	9.84	8.27	10.67	11.83	9.33	10.78	10.61	8.93	8.19	6.54
8	6.89	7.84	9.82	8.27	10.79	11.88	8.91	10.80	10.56	9.10	8.41	6.54
9	6.89	7.98	9.84	8.31	10.95	11.94	8.91	10.80	10.56	9.21	8.38	6.54
10	6.98	8.33	10.01	8.57	11.08	11.99	9.03	10.80	10.56	9.28	8.43	6.80
11	7.16	8.56	10.07	8.78	11.13	12.01	9.23	10.86	10.56	9.40	8.57	6.74
12	7.22	8.69	10.06	9.04	11.20	12.08	9.41	10.89	10.56	9.52	8.71	6.75
13	7.13	8.83	10.07	9.29	11.26	12.11	9.60	10.92	10.61	9.59	8.87	6.57
14	7.10	8.94	10.21	9.49	11.35	12.11	9.69	10.92	10.64	9.72	8.82	6.57
15	7.09	9.17	10.16	9.60	11.48	12.20	9.79	10.92	10.62	9.87	8.45	6.62
16	6.95	9.20	10.37	9.84	11.61	12.20	10.02	10.95	10.39	9.93	8.32	6.20
17	6.98	9.13	10.51	10.00	11.66	12.13	10.16	10.95	10.18	9.93	8.32	6.09
18	6.91	9.13	10.65	10.22	11.67	12.07	10.22	10.90	10.06	9.93	8.39	6.09
19	6.44	9.13	10.66	10.34	11.60	12.04	10.36	10.77	9.93	9.81	8.63	6.14
20	6.37	9.10	10.03	10.37	11.55	11.88	10.36	10.55	9.73	9.37	7.91	6.32
21	6.31	9.10	9.47	10.50	11.54	11.88	10.33	10.52	9.45	9.31	7.10	6.67
22	6.31	9.10	9.10	10.65	11.52	11.79	10.33	10.53	9.37	9.21	6.50	6.95
23	6.20	9.13	8.75	10.79	11.55	11.58	10.35	10.42	9.37	8.60	6.50	7.17
24	6.22	9.13	8.44	10.87	11.64	11.44	10.41	10.36	9.46	7.47	6.64	7.32
25	6.37	9.42	7.59	10.93	11.70	11.08	10.47	10.33	9.56	7.46	6.91	7.42
26	6.64	9.42	7.44	11.04	11.72	10.16	10.50	10.33	9.59	7.55	7.20	7.51
27	6.79	---	6.30	10.46	11.76	10.01	10.59	10.36	9.62	7.74	7.36	7.67
28	6.86	---	6.02	10.01	11.76	10.00	10.61	10.42	9.14	7.84	7.46	7.81
29	7.03	---	6.05	9.90	11.76	10.01	10.61	10.53	8.18	7.38	7.71	7.85
30	7.20	---	6.28	9.84	---	9.79	10.61	10.53	8.18	7.37	7.83	7.88
31	7.39	---	6.52	9.85	---	9.13	---	10.53	---	7.33	7.89	---

SOUTH-CENTRAL ALASKA

MUNICIPALITY OF ANCHORAGE

611725149335401. Local number, SB01400223BCCD1003.

LOCATION.--Lat 61°17′26″, long 149°35′39″, in SE$^1/_4$ SW$^1/_4$ SW$^1/_4$ NW$^1/_4$ sec. 23, T.14 N., R.2 W. (Anchorage B-7 SW quad), Hydrologic Unit 19020401, at Anchorage Regional Landfill, Glenn Highway and Hiland Road interchange, Anchorage. Owner: Municipality of Anchorage.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6 in., depth 132 ft, cased to 118 ft, open hole. Casing perforated from 111 to 117 ft. Bedrock from 117 ft. Driller's log notes casing break at 80 ft.

INSTRUMENTATION.--Monthly measurement with chalked steel tape by U.S. Geological Survey personnel July 1997 to September 1999. electronic data logger from September 3, 1999 to current year.

DATUM.--Elevation of land surface datum is 542.56 ft above sea level (determined by level survey). Measuring point: Top of casing 3.4 ft above land-surface datum.

REMARKS.--Observation well drilled by Municipality of Anchorage, designated as KB-6.

PERIOD OF RECORD.--August 1986, July 1997 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 107.88 ft below land-surface datum, June 7, 2000; lowest, 114.25 ft below land-surface datum, Aug. 21, 1986.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 107.88 ft. below land-surface datum, June 7; lowest, 110.56 ft below land-surface datum, March 30.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110.03	109.94	109.49	109.82	110.18	110.46	110.48	109.78	107.96	108.48	109.14	109.73
2	110.03	109.92	109.53	109.82	110.10	110.45	110.47	109.70	107.95	108.50	109.14	109.75
3	110.06	109.88	109.52	109.84	110.21	110.47	110.48	109.66	107.93	108.53	109.16	109.77
4	109.99	109.85	109.52	109.85	110.21	110.50	110.47	109.62	107.90	108.53	109.18	109.79
5	109.98	109.86	109.51	109.85	110.23	110.47	110.47	109.59	107.90	108.54	109.22	109.81
6	110.02	109.83	109.52	109.85	110.26	110.47	110.47	109.53	107.89	108.58	109.23	109.80
7	110.04	109.81	109.54	109.88	110.26	110.48	110.48	109.50	107.88	108.60	109.24	109.85
8	110.04	109.80	109.53	109.88	110.29	110.50	110.47	109.45	107.91	108.63	109.27	109.85
9	110.03	109.79	109.53	109.95	110.30	110.50	110.44	109.40	107.93	108.65	109.29	109.89
10	110.01	109.78	109.53	109.98	110.31	110.49	110.43	109.38	107.95	108.67	109.30	109.89
11	109.98	109.74	109.54	109.99	110.31	110.49	110.41	109.32	107.97	108.69	109.33	109.92
12	109.99	109.72	109.55	110.02	110.34	110.51	110.39	109.27	107.98	108.70	109.35	109.94
13	110.03	109.71	109.56	110.03	110.34	110.49	110.36	109.19	108.01	108.73	109.34	109.94
14	110.02	109.72	109.56	110.01	110.35	110.51	110.34	109.14	108.05	108.76	109.35	109.94
15	109.90	109.65	109.53	110.04	110.38	110.48	110.31	109.09	108.10	108.78	109.38	109.98
16	109.94	109.64	109.59	110.05	110.38	110.51	110.28	109.02	108.08	108.77	109.41	109.98
17	109.99	109.65	109.61	110.06	110.37	110.52	110.26	108.97	108.11	108.81	109.42	110.03
18	109.96	109.58	109.57	110.07	110.35	110.52	110.26	108.89	108.13	108.83	109.42	110.04
19	109.99	109.58	109.58	110.08	110.38	110.48	110.24	108.83	108.15	108.85	109.45	110.05
20	110.00	109.61	109.59	110.10	110.41	110.52	110.18	108.70	108.19	108.87	109.48	110.05
21	109.93	109.60	109.61	110.11	110.42	110.53	110.19	108.60	108.24	108.88	109.50	110.05
22	110.00	109.59	109.59	110.11	110.41	110.52	110.18	108.54	108.27	108.89	109.52	110.09
23	109.98	109.56	109.68	110.09	110.42	110.52	110.13	108.47	108.29	108.95	109.55	110.10
24	109.98	109.57	109.64	110.09	110.43	110.51	110.09	108.38	108.31	108.95	109.57	110.13
25	109.95	109.57	109.57	110.14	110.43	110.49	110.05	108.28	108.35	108.96	109.59	110.13
26	109.98	109.58	109.63	110.08	110.44	110.49	110.01	108.20	108.36	108.99	109.61	110.15
27	109.96	109.56	109.74	110.09	110.43	110.52	109.94	108.13	108.38	109.00	109.61	110.16
28	109.96	109.52	109.75	110.12	110.44	110.48	109.92	108.09	108.39	109.02	109.65	110.18
29	109.96	109.54	109.78	110.17	110.46	110.47	109.84	108.05	108.41	109.06	109.65	110.20
30	109.95	109.49	109.78	110.13	---	110.51	109.83	108.02	108.45	109.07	109.71	110.21
31	109.90	---	109.79	110.15	---	110.49	---	107.99	---	109.09	109.71	---

SOUTH-CENTRAL ALASKA

MATANUSKA-SUSITNA BOROUGH

613847149131801. Local number, SA01800114CDAA1 010.

LOCATION.--Lat 61°38′46", long 149°13′29", Hydrologic Unit 19020505, near Cunningham Road and Palmer-Fishhook, Palmer.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6 in., depth 61 ft, perforated 50-55 ft below land surface.

INSTRUMENTATION.--Measured with a calibrated electric tape by U.S. Geological Survey personnel.

DATUM.--Elevation of land surface 541 ft above sea level (determined from topographic map). Measuring point: Top of casing 2.0 ft above land-surface datum.

REMARKS.--Well was sampled for water quality as part of the Cook Inlet Basin National Water Quality Assessment (NAWQA) program on October 20, 1999. Well also known as COOK NAWQA 30.

PERIOD OF RECORD.–October 1999.

EXTREMES FOR PERIOD OF RECORD.–Highest water level measured, 22.50 ft below land surface, October 20, 1999; lowest reported, 30 ft below land surface, February 16, 1999.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000

DATE	WATER LEVEL
OCT 20	22.50

YUKON ALASKA

FAIRBANKS NORTH STAR BOROUGH

644400147151501. Local number, FD00200224ABBB1001 51659.

LOCATION.--Lat 64°44′00″, long 147°15′15″, Hydrologic Unit 19040506, in road right-of-way at intersection of Nelson and Laurence Roads near North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 4-in., depth 30 ft, screened from 27.5 to 30 ft using a 2-in. diameter well point.

INSTRUMENTATION.--Strip-chart recorder from June 1976 to May 1980. Digital recorder--1-hour punch interval, from November 1983 to June 1995. Electronic data logger from June 1995 to present.

DATUM.--Elevation of land-surface datum is 503.5 ft above sea level (determined by levels survey). Measuring point: Top of casing 2.97 ft above land-surface datum.

REMARKS.--Observation well drilled by the U.S. Army Corps of Engineers designated as P-251. Missing record from June 25 to August 13 due to equipment malfunction.

PERIOD OF RECORD.--June 1976 to May 1980 and November 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 4.84 ft below land-surface datum, June 7, 1992; lowest, 13.70 ft below land-surface datum, February 18-20, 1988.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 11.61 ft below land-surface datum, September 29; lowest, 13.58 ft below land-surface datum, March 18-26.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.77	13.16	13.16	13.32	13.48	13.49	13.57	12.93	12.64	---	---	11.78
2	12.78	13.16	13.17	13.32	13.48	13.49	13.57	12.89	12.63	---	---	11.76
3	12.79	13.16	13.17	13.32	13.48	13.54	13.56	12.87	12.61	---	---	11.74
4	12.79	13.16	13.17	13.32	13.48	13.54	13.56	12.86	12.60	---	---	11.72
5	12.80	13.16	13.17	13.33	13.48	13.54	13.54	12.84	12.58	---	---	11.70
6	12.80	13.16	13.17	13.33	13.48	13.54	13.54	12.82	12.58	---	---	11.69
7	12.81	13.16	13.17	13.34	13.48	13.54	13.54	12.81	12.58	---	---	11.68
8	12.83	13.16	13.18	13.34	13.48	13.54	13.54	12.81	12.58	---	---	11.68
9	12.86	13.16	13.20	13.36	13.48	13.56	13.53	12.81	12.57	---	---	11.66
10	12.87	13.16	13.20	13.36	13.48	13.57	13.53	12.80	12.56	---	---	11.65
11	12.89	13.16	13.20	13.36	13.48	13.57	13.53	12.80	12.56	---	---	11.65
12	12.89	13.16	13.21	13.37	13.48	13.57	13.53	12.80	12.55	---	---	11.65
13	12.90	13.16	13.22	13.41	13.48	13.57	13.54	12.80	12.55	---	---	11.63
14	12.91	13.16	13.22	13.41	13.48	13.57	13.54	12.80	12.55	---	12.14	11.63
15	12.93	13.16	13.25	13.45	13.48	13.57	13.54	12.81	12.54	---	12.11	11.63
16	12.94	13.15	13.25	13.46	13.48	13.57	13.50	12.82	12.52	---	12.09	11.63
17	12.95	13.15	13.26	13.46	13.48	13.57	13.50	12.84	12.51	---	12.07	11.63
18	12.95	13.15	13.26	13.46	13.48	13.57	13.48	12.85	12.50	---	12.05	11.65
19	12.96	13.15	13.26	13.46	13.48	13.58	13.48	12.87	12.50	---	12.02	11.65
20	12.97	13.15	13.28	13.46	13.48	13.58	13.46	12.88	12.49	---	12.00	11.65
21	12.98	13.15	13.28	13.46	13.48	13.58	13.45	12.86	12.48	---	11.98	11.64
22	12.98	13.15	13.28	13.46	13.48	13.58	13.34	12.85	12.47	---	11.97	11.64
23	13.00	13.15	13.29	13.47	13.48	13.58	13.30	12.84	12.46	---	11.95	11.64
24	13.01	13.15	13.30	13.47	13.49	13.58	13.28	12.82	12.46	---	11.93	11.64
25	13.02	13.15	13.30	13.47	13.49	13.58	13.24	12.79	---	---	11.91	11.63
26	13.04	13.15	13.30	13.47	13.49	13.57	13.19	12.77	---	---	11.89	11.62
27	13.09	13.15	13.30	13.47	13.49	13.57	13.13	12.74	---	---	11.87	11.62
28	13.12	13.16	13.30	13.47	13.49	13.57	13.06	12.72	---	---	11.85	11.62
29	13.14	13.16	13.31	13.47	13.49	13.57	13.00	12.69	---	---	11.84	11.61
30	13.15	13.16	13.31	13.48	---	13.57	12.96	12.67	---	---	11.82	11.62
31	13.16	---	13.31	13.48	---	13.57	---	12.66	---	---	11.80	---

YUKON ALASKA

FAIRBANKS NORTH STAR BOROUGH—Continued

645434147385101. Local number, FB00100113DDBC2001 50673.

LOCATION.--Lat 64°54′34″, long 147°38′51″, Hydrologic Unit 19040506, in road right-of-way at 2.3 mi McGrath Road, off Farmers' Loop Road near Fairbanks. Owner: U.S. Geological Survey.

AQUIFER.--Quartz-mica schist of pre-Jurassic age.

WELL CHARACTERISTICS.--Diameter 6-in., depth 100 ft, metal casing to 98.5 ft, perforated openings from 88.5 ft to 98.5 ft, and open hole to 100 ft.

INSTRUMENTATION.--Digital recorder, from October 1983 to June 1995. Electronic data logger from June 1995 to May 1996. Digital recorder, from May 1996 to September 1997. Electronic data logger from October 1997 to present.

DATUM.--Elevation of land-surface datum is 740 ft above sea level (determined from topographic map). Measuring point is top of casing 1.00 ft above land-surface datum.

REMARKS.--Observation well drilled by the U.S. Geological Survey, designated as McGrath Well, replaces old McGrath Estates well, 645429147383801.

PERIOD OF RECORD.--June 1983 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 39.13 ft below land-surface datum, October 28, 1983; lowest, 44.85 ft below land-surface datum, July 3, 1990.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 42.84 ft below land-surface datum, September 21-22; lowest, 44.03 ft below land-surface datum, April 24-25.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43.32	43.31	43.18	43.48	43.57	43.70	43.99	43.78	43.66	43.41	---	43.13
2	43.26	43.35	43.20	43.48	43.61	43.69	43.94	43.83	43.59	43.45	---	43.12
3	43.30	43.29	43.26	43.44	43.64	43.67	43.95	43.77	43.58	43.45	---	43.11
4	43.36	43.24	43.25	43.41	43.68	43.68	43.90	43.74	43.61	43.46	43.50	43.08
5	43.26	43.24	43.26	43.44	43.65	43.83	43.90	43.76	43.58	43.37	43.55	43.07
6	43.27	43.25	43.30	43.37	43.64	43.91	43.93	43.80	43.55	43.37	43.49	42.97
7	43.30	43.26	43.35	43.37	43.68	43.85	43.93	43.78	43.52	43.40	43.44	42.97
8	43.38	43.32	43.34	43.37	43.70	43.85	43.95	43.78	43.52	43.42	43.44	43.04
9	43.41	43.33	43.28	43.43	43.70	43.85	43.99	43.79	43.58	43.46	43.44	43.08
10	43.43	43.33	43.28	43.55	43.66	43.87	43.98	43.79	43.60	43.47	43.41	43.02
11	43.35	43.24	43.29	43.63	43.62	43.80	43.94	43.79	43.60	43.45	43.38	43.01
12	43.24	43.21	43.37	43.64	43.62	43.80	43.94	43.79	43.60	43.40	43.36	43.04
13	43.24	43.21	43.41	43.58	43.67	43.79	43.93	43.78	43.62	43.40	43.35	43.01
14	43.33	43.28	43.36	43.41	43.65	43.74	43.91	43.74	43.65	43.40	43.35	42.97
15	43.30	43.38	43.26	43.40	43.64	43.69	43.91	43.70	43.65	43.42	43.37	43.00
16	43.19	43.14	43.26	43.51	43.67	43.68	43.89	43.69	43.52	43.43	43.35	42.99
17	43.27	43.14	43.33	43.52	43.64	43.69	43.86	43.67	43.49	43.40	43.27	43.02
18	43.16	43.21	43.41	43.48	43.55	43.76	43.79	43.67	43.47	---	43.22	43.08
19	43.15	43.14	43.32	43.51	43.50	43.81	43.79	43.67	43.45	---	43.22	43.08
20	43.21	43.14	43.32	43.54	43.55	43.80	43.78	43.67	43.45	---	43.24	42.99
21	43.22	43.23	43.32	43.49	43.66	43.80	43.77	43.69	43.46	---	43.28	42.84
22	43.20	43.35	43.26	43.49	43.74	43.83	43.83	43.67	43.49	---	43.28	42.84
23	43.34	43.33	43.29	43.52	43.69	43.80	43.93	43.67	43.49	---	43.28	42.91
24	43.31	43.32	43.44	43.50	43.69	43.76	44.00	43.72	43.54	---	43.27	42.95
25	43.19	43.32	43.25	43.51	43.74	43.76	43.93	43.70	43.60	---	43.26	42.99
26	43.19	43.34	43.26	43.45	43.77	43.81	43.88	43.67	43.54	---	43.26	42.97
27	43.27	43.39	43.28	43.41	43.75	43.85	43.81	43.68	43.44	---	43.23	42.91
28	43.27	43.32	43.37	43.41	43.69	43.88	43.76	43.69	43.39	---	43.25	42.88
29	43.28	43.28	43.48	43.58	43.69	43.84	43.75	43.72	43.39	---	43.15	42.86
30	43.28	43.25	43.51	43.64	---	43.85	43.76	43.74	43.40	---	43.15	42.85
31	43.32	---	43.45	43.54	---	43.93	---	43.71	---	---	43.22	---

YUKON ALASKA

FAIRBANKS NORTH STAR BOROUGH—Continued

644528147131201. Local number, FD00200307ACBD1001 51660.

LOCATION.--Lat 64°45′28″, long 147°13′12″, Hydrologic Unit 19040506, inside Corps of Engineers Chena Lakes Project fenced compound, 120 ft west of headquarters building and 2 mi northeast of the intersection of Laurence and Nelson Roads. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 4-in., depth 31 ft, screened from 28.5 to 31 ft using a 2-in. diameter well point.

INSTRUMENTATION.--Continuous strip-chart recorder from June 1976 to May 1980. Digital recorder--1-hour punch interval, from October 1985 to April 1995. Electronic data logger used from April 1995 to present.

DATUM.--Elevation of land-surface datum is 494.7 ft above sea level (determined by levels survey). Measuring point: Top of casing 2.91 ft above land-surface datum.

REMARKS.--Observation well drilled by the U.S. Army Corps of Engineers, designated as P-252. Water levels from water years 1986 through 1990 were not previously published and are available from WATSTORE. Missing record May 6-11, May 16 to June 15, June 17-18, June 20 to August 14, due to equipment malfunction.

PERIOD OF RECORD.--June 1976 to May 1980 and October 1985 to current year.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 2.85 ft below land-surface datum, June 8-9, 1992; lowest, 13.04 ft below land-surface datum October 1, 1976.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 8.28 ft below land-surface datum, September 29-30, but may have been higher during period of missing record; lowest, 11.35 ft below land-surface datum, April 15-18.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 1999 TO SEPTEMBER 2000
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.49	10.56	10.73	10.92	11.07	11.20	11.30	10.91	---	---	---	8.67
2	10.48	10.56	10.73	10.93	11.08	11.20	11.30	10.85	---	---	---	8.63
3	10.47	10.57	10.73	10.93	11.10	11.20	11.31	10.80	---	---	---	8.60
4	10.46	10.57	10.74	10.94	11.11	11.20	11.31	10.76	---	---	---	8.57
5	10.45	10.57	10.75	10.95	11.11	11.20	11.31	10.70	---	---	---	8.55
6	10.45	10.58	10.75	10.95	11.12	11.21	11.31	---	---	---	---	8.53
7	10.45	10.58	10.75	10.96	11.12	11.23	11.32	---	---	---	---	8.52
8	10.45	10.58	10.77	10.96	11.13	11.23	11.32	---	---	---	---	8.51
9	10.45	10.60	10.77	10.97	11.13	11.24	11.33	---	---	---	---	8.49
10	10.45	10.61	10.78	10.97	11.14	11.24	11.34	---	---	---	---	8.48
11	10.45	10.62	10.78	10.98	11.14	11.25	11.34	---	---	---	---	8.47
12	10.45	10.62	10.79	10.99	11.15	11.25	11.34	10.43	---	---	---	8.46
13	10.45	10.63	10.80	11.00	11.15	11.25	11.34	10.38	---	---	---	8.44
14	10.45	10.63	10.81	11.01	11.16	11.25	11.34	10.29	---	---	---	8.44
15	10.46	10.64	10.82	11.01	11.16	11.26	11.34	10.20	---	---	9.55	8.43
16	10.47	10.65	10.82	11.02	11.16	11.26	11.35	---	9.38	---	9.56	8.42
17	10.47	10.65	10.82	11.03	11.17	11.26	11.35	---	---	---	9.42	8.41
18	10.48	10.65	10.83	11.03	11.17	11.26	11.34	---	---	---	9.30	8.41
19	10.48	10.65	10.84	11.04	11.17	11.26	11.34	---	9.32	---	9.21	8.41
20	10.48	10.66	10.85	11.04	11.17	11.27	11.34	---	---	---	9.14	8.40
21	10.49	10.66	10.85	11.04	11.17	11.27	11.34	---	---	---	9.08	8.37
22	10.50	10.67	10.86	11.04	11.18	11.27	11.34	---	---	---	9.03	8.37
23	10.51	10.67	10.86	11.04	11.18	11.28	11.33	---	---	---	8.99	8.36
24	10.51	10.68	10.87	11.05	11.18	11.28	11.28	---	---	---	8.95	8.35
25	10.52	10.69	10.88	11.05	11.19	11.28	11.32	---	---	---	8.91	8.33
26	10.52	10.69	10.89	11.06	11.19	11.28	11.23	---	---	---	8.86	8.32
27	10.53	10.70	10.89	11.06	11.19	11.29	11.12	---	---	---	8.82	8.30
28	10.54	10.71	10.90	11.06	11.19	11.29	11.06	---	---	---	8.79	8.29
29	10.54	10.71	10.91	11.06	11.19	11.29	11.01	---	---	---	8.76	8.28
30	10.55	10.72	10.91	11.07	---	11.29	10.95	---	---	---	8.74	8.28
31	10.56	---	10.92	11.07	---	11.30	---	---	---	---	8.70	---