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and with other agencies

Water Resources Data
Alaska
Water Year 2005

Water-Data Report AK-05-1

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

Calendar for Water Year 2005

2004

October

S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
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31						

November

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December

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2005

January

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February

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March

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April

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May

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June

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July

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31						

August

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September

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18	19	20	21	22	23	24
25	26	27	28	29	30	

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

Water Resources Data
Alaska
Water Year 2005

M.L. Jackson, M.E. Castor, J.M. Goetz, G.L. Solin, J.M. Wiles

Water Data Report AK-05-1

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

UNITED STATES DEPARTMENT OF THE INTERIOR

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2006

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:

Dan Hess, Juneau
Matt Schellekens, Fairbanks
Ronald L. Rickman, Anchorage

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Water resources data for the 2005 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 114 gaging stations; stage or contents only at 3 gaging stations; water quality at 37 gaging stations; and water levels for 41 observation wells. Also included are data for 55 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. Some data collected during 2005 will be published in subsequent reports. 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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Note--Data for 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, (t) water temperature, (s) sediment, (e) elevation, gage height, (b) biological or contents]

SOUTHEAST ALASKA—Continued

STREAMS ON ADMIRALTY ISLAND

STREAMS ON CHICHAGOF ISLAND

MAINLAND STREAMS

SOUTH-CENTRAL ALASKA

MAINLAND STREAMS

SOUTH-CENTRAL ALASKA—Continued

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MAINLAND STREAMS

CREST-STAGE PARTIAL-RECORD STATIONS, IN DOWNSTREAM ORDER, FOR WHICH RECORDS ARE PUBLISHED IN THIS VOLUME

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NORTHWEST ALASKA

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GROUND-WATER LEVELS AND WATER-QUALITY

SOUTHEAST ALASKA

SOUTH-CENTRAL ALASKA

YUKON ALASKA

* * * * * * * * * * * * *

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)]

* Currently operated as a crest-stage partial-record station

Discontinued surface-water discharge or stage-only stations

[Footnotes at end of table on page xxix]

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
Harding River near Wrangell (d)	15022000	67.4	1951-2004
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
Dorothy Lake Outlet (head of Dorothy Creek) near Juneau (d)	15039900	11.0	1986-2003

Discontinued surface-water discharge or stage-only stations--Continued

[Footnotes at end of table on page xxix]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTHEAST ALASKA—Continued			
Dorothy Creek near Juneau (d)	15040000	15.2	1929-67 2001-03
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 Mouth near Juneau (d)	15052009	22.9	1983-86
Nugget Creek above Diversion near Auke Bay (d)	15052495	15.8	2000-03
Duck Creek below Nancy Street near Auke Bay (d)	15053200	1.30	1993-2004
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
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
Kahtaheena River above upper falls near Gustavus (d)	15057580	10.1	1999-2004
Kahtaheena River near Gustavus	15057590	10.7	1998-2001
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 page xxix]

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
North Fork Staney Creek near Klawock (d)	15081495	3.07	1990-2003
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
Threemile Creek near Klawock (d)	15081610	6.63	1999-2003
Klawak River near Klawock (d)	15081620	46.1	1977
North Branch Trocadero Creek near Hydaburg (d)	15081800	17.4	1967-73
Reynolds Creek below Lake Mellen near Hydaburg (d)	15081995	5.20	1982-85 1997-2003
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
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
Sunrise Lake Outlet near Wrangell (d)	15086960	1.17	1976-80 1997-2001
Mill Creek at Wrangell (d)	15087000	0.09	1965-67

Discontinued surface-water discharge or stage-only stations--Continued

[Footnotes at end of table on page xxix]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTHEAST ALASKA—Continued			
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
Rocky Pass Creek near Point Baker (d)	15087590	2.72	1977-88
Nakwasina River near Sitka (d)	15087610	31.9	1977-82
Indian River at Sitka (d)	15087700	12.0	1998-2003
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
Favorite Creek near Angoon (d)	15102200	2.52	2000-03
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
Peterson Creek below North Fork near Auke Bay (d)	15109048	4.33	1998-2004

Discontinued surface-water discharge or stage-only stations--Continued

[Footnotes at end of table on page xxix]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTH-CENTRAL ALASKA			
Dick Creek near Cordova (d)	15195000	7.95	1970-81
Gakona River at Gakona (d)	15200000	a620	c1970
Gulkana River at Sourdough (d)	15200280	1770	1972-78, 1982, 1988-93, 1997-2004
Tazlina River near Glennallen (d)	15202000	a2670	1949-50 1952-72
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
Hobo Creek near Whittier (d)	15236000	5.53	c1913 1990-2000
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

Discontinued surface-water discharge or stage-only stations--Continued

[Footnotes at end of table on page xxix]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTH-CENTRAL ALASKA—Continued			
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 1991-93
Nuka River near Tidewater near Homer (d)	15238653	a38	1984-85
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
Bradly River near Homer (d)	15239000	65.0	1955, 1957-90, 1991-2004
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
Ninilchik River at Ninilchik (d)	15241600	135	1963-85 1998-2003
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

Discontinued surface-water discharge or stage-only stations--Continued

[Footnotes at end of table on page xxix]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTH-CENTRAL ALASKA—Continued			
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
South Fork Campbell Creek near Anchorage (d)	15274000	29.2	1947-71 1999-2001
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
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
Chester Creek at Arctic Boulevard near Anchorage (d)	15275100	27.4	1966-86 1987-93 1999-2001
Ship Creek at Glenn Highway near Anchorage (d)	15276200	103	2002-03
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
Camp Creek near Sheep Mountain Lodge (d)	15281500	1.09	1968-69, 1971, 1989-2004
Caribou Creek near Sutton (d)	15282000	289	1955-78
Moose Creek near Palmer (d)	15283700	47.3	1997-2001
Palmer Hayflat at railroad near Palmer (e)	15284500		1992-97

Discontinued surface-water discharge or stage-only stations--Continued

[Footnotes at end of table on page xxix]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTH-CENTRAL ALASKA—Continued			
Cottonwood Creek near Wasilla (d)	15286000	28.5	1949-54 1998-2000
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
Chulitna River near Talkeetna (d)	15292400	a2570	1958-72 1980-86
Susitna River at Sunshine (d)	15292780	a11100	1981-86
Deception Creek near Willow (d)	15294010	48.0	1978-85
Deshka River near Willow (d)	15294100	591	1979-86 1999-2001
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
Johnson River above Lateral Glacier near Tuxedni Bay (d)	15294700	24.8	1995-2004
Paint River near Kamishak (d)	15294900	205	1983-85 1989 1991-95
Little Kitoi Creek near Afognak (d)	15295500	2.63	1960-61
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

Discontinued surface-water discharge or stage-only stations--Continued

[Footnotes at end of table on page xxix]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTH-CENTRAL ALASKA—Continued			
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
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 Dilligham (d)	15302000	1490	1953-96 2002-04
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

Discontinued surface-water discharge or stage-only stations--Continued

[Footnotes at end of table on page xxix]

Station name	Station number	Drainage area (mi^2)	Period of record
SOUTHWEST ALASKA—Continued			
Kuskokwim River at McGrath (d)	15303600	a11700	1963-73
Kuskokwim River at Aniak (e)	15304060	--	1996-2003
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
Nation River near Nation (d)	15388030	931	1991-2003
Kandik River near Nation (d)	15388060	1084	1991-2000
Kandik River below Threemile Creek near Nation (d)	15388070	1176	2002
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
Upper West Creek near Big Delta (d)	15477761	1.64	1999-2002
Liese Creek near Big Delta (d)	15477730	1.08	1999-2004
Tanana River at Big Delta (d)	15478000	a13500	1949-52 1954-57
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

Discontinued surface-water discharge or stage-only stations--Continued

[Footnotes at end of table on page xxix]

Station name	Station number	Drainage area (mi^2)	Period of record
YUKON ALASKA—Continued			
Nenana River near Windy (d)	15516000	a710	1950-56
Nenana River near Healy (d)	15518000	a1910	1951-79
Healy Creek at Suntrana (d)	15518020	a110	1998-2001
Nenana River at Healy (d)	15518040	a2100	1990-91
Lignite Creek above mouth near Healy (d)	15518080*	48.1	1985-2004
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 (d)	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
NORTHWEST ALASKA			
Snake River near Nome (d)	15621000	85.7	1965-81 1982-91
Stewart River 0.1 mile below Boulder Creek mouth near Nome (d)	15625850	22.3	2004
Stewart River 0.2 mile below Durrant Creek mouth near Nome (d)	15625900	53.2	2004
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
Kobuk River near Kiana (d)	15744500	9520	1976-2003
Noatak River at Noatak (d)	15746000	a12000	c1965-71
Wulik River above Ferric Creek near Kivalina (d)	15746900	191	2000-2003
Ikalukrok Creek above Red Dog Creek near Kivalina (d)	15746980	59.2	1991-92

Discontinued surface-water discharge or stage-only stations--Continued

[Footnotes at end of table on page xxix]

Station name	Station number	Drainage area (mi^2)	Period of record
NORTHWEST ALASKA—Continued			
Red Dog Mine clean water ditch near Kivalina (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 Kivalina (d)	15746990	24.6	1991-92
Ikalukrok Creek below Red Dog Creek near Kivalina (d)	15746991	98.6	1995-2004
Ogotoruk Creek near Point Hope (d)	15748000	a35	c1958-62
ARCTIC SLOPE ALASKA			
Nunavak Creek near Barrow (d)	15798700	2.79	1971-2004
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 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

Footnotes

* Currently operated as a water-quality partial record station
\# Currently operated as a monthly discharge and reservoir elevation staion
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 page xxxiv]

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
Jordan Creek below Egan Drive near Auke Bay	15052475	2.60	Temp	1999-2004
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
Kahtaheena River above upper falls near Gustavus	15057580	10.1	Temp.	2000-2004
Kahtaheena River near Gustavus	15057590	10.7	Temp.	1999-2001
Grace Creek near Ketchikan	15078000	30.2	Temp.	1965-69
Traitors River near Bell Island	15080500	20.8	Temp.	1965-68
North Fork Stanley Creek near Klawock	15081495	3.07	Temp.	1990-2003
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
Sunrise Lake Outlet near Wrangell	15086960	1.17	Temp.	1978, 1980, 1998-2001
Zarembo Creek near Point Baker	15087110	1.27	Temp.	1979-80
Hamilton Creek near Kake	15087570	65.0	Temp.	1982-86, 1989-96

Discontinued continuous record surface-water-quality stations--Continued
[Footnotes at end of table on page xxxiv]

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
SOUTHEAST ALASKA—Continued				
Rocky Pass Creek near Point Baker	15087590	2.72	Temp.	1978-79, 1981-82
Nakwasina River near Sitka	15087610	31.9	Temp.	1976-82
Indian River near Sitka	15087690	--	Temp., S.C.	2001-2002
Indian River at Sitka	15087700	--	Temp., S.C.	2001-2002
Betty Lake outlet at Port Armstrong	15093200	2.66	Temp.	1978-81
Sashin Creek near Big Port Walter	15093400	3.72	Temp.	1966-77
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
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

Discontinued continuous record surface-water-quality stations--Continued
[Footnotes at end of table on page xxxiv]

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
SOUTH-CENTRAL ALASKA—Continued				
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.	1963, 1965, 1999-2003
			Sed.	1963-65
Trail River near Lawing	15248000	181	Temp.	1959-67
Kenai River at Cooper Landing	15258000	634	S.C.	1950
Kenai River below Skilak Lake Outlet near Sterling	15266110	1206	Temp.	1999-2001
Kenai River at Soldotna	15266300	1,950	Temp.	1999-2001
			Sed.	1979-80, 1999-2001
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
South Fork Campbell Creek near Anchorage	15274000	29.2	Temp.	1999-2001
Little Campbell Creek at Nathan Drive near Anchorage	15274550	a15.0	Temp.	1986-87
			Sed.	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	27.4	Temp.	1981-86, 1999-2001
			Sed.	b1988-91
			S.C.	1981-86, 2000-01
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.	1968-69, 1971
			Sed., S.C.	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.	1963, 1965
			Sed.	1962-66
			S.C.	1972
Camp Creek near Sheep Mountaion Lodge	15281500	1.09	Temp.	1996-2004
Chickaloon River near Sutton	15282800	--	Temp.	1953-54
Matanuska River at Palmer	15284000	a2,070	Temp.	1952-53, 1959-66
			Sed.	1953-54, 1959-66
			S.C.	1965-67, 1972
Susitna River near Denali	15291000	a950	Temp.	1974-82

Discontinued continuous record surface-water-quality stations--Continued
[Footnotes at end of table on page xxxiv]

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
SOUTH-CENTRAL ALASKA—Continued				
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
Deshka River near Willow	15294100	591	Temp.	1999-2001
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
Johnson River above Lateral Glacier near Tuxedni Bay	15294700	24.8	Temp., S.C. pH, D.O., Turb.	2004
Falls Creek near Larsen Bay	15296500	5.67	Temp.	1974-75
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

Discontinued continuous record surface-water-quality stations--Continued
[Footnotes at end of table on page xxxiv]

Station name	Station number	Drainage area (mi^2)	Type of record	Period of record (water years)
YUKON ALASKA—Continued				
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
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				
Stewart River 0.1 mile below Boulder Creek mouth near Nome	15625850	22.3	Temp.	2004
Stewart River 0.2 mile below Durrant Creek mouth near Nome	15625900	53.2	Temp.	2004
Eldorado Creek near Teller	15635000	5.83	Temp.	b1995-98
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 Alaska Science Center 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 2005 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 114 gaging stations; stage or contents only at 3 gaging stations; water quality at 37 gaging stations; and water levels for 41 observation wells. Also included are data for 55 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. Some data collected during 2005 will be published in subsequent reports. 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-05-1." 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 USGS Water Science Center at the address given on the back of the title page or by telephone (907) 786-7000.

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 *http://alaska.usgs.gov/science/water/index.php*

Nationwide information on water resources, including real-time and historic streamflow data, water-use data, publications and USGS program activities, can be found at *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, William Noll, Commissioner
Alaska Industrial Development and Export Authority, Alaska Energy Authority, Ronald W. Miller, Executive Director
Alaska Department of Environmental Conservation, Kurt Fredriksson, Commissioner
Alaska Department of Fish and Game, McKie Campbell, Commissioner
Alaska Department of Natural Resources, Division of Mining and Water Management, Michael Menge, Commissioner
Alaska Department of Transportation and Public Facilities, Mike Barton, Commissioner, in cooperation with the U.S. Department of Transportation, Federal Highway Administration
Bristol Bay Native Corporation, Tom Hawkins, Senior Vice President and Chief Operating Officer
Central Council of Tlingit and Haida Indian Tribes of Alaska, Desiree Welch, Native Lands and Resources Manager
City and Borough of Juneau, Bruce Botelho, Mayor
City and Borough of Sitka, Marko Dapcevich, Mayor
City and Borough of Yakutat, Victoria Anderstrom, Mayor
City of Wrangell, Valery McCandless, Mayor
Alaska Native Tribal Health Consortium, Paul Sherry, President/CEO
Haida Corporation, John Bruns, Resource Manager
Cheesh-na Tribal Council, Elaine Sinyon, Chief Executive Officer
Native Village of Eklutna, Lee Stephan, Chief Executive Officer
Kenai Peninsula Borough, John Williams, Mayor
Matanuska-Susitna Borough, Tim Anderson, Mayor
Municipality of Anchorage, Mark Begich, 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 the Interior, Bureau of Land Management
U.S. Department of the Interior, National Park Service

ACKNOWLEDGMENTS

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

Richard Kemnitz, Colville River at Umiat, Fish Creek and Judy Creek near Nuiqsut
Ed LaChapelle, McCarthy Creek near McCarthy
Brian Omann, Sawmill Creek and Blue Lake near Sitka
Dean Orbison, Sawmill Creek and Green Lake near Sitka
Steve Paustian, Kadashan River near Tenakee
Eric Sundberg, Greens Creek at Greens Creek Mine near Juneau
Tom Walters, Terror River near Kodiak
Jan and Dick Newton, Tatalina River near Takotna
Ray Williams, Iliamna River near Pedro Bay
John Borg, Yukon River at Eagle
Rob Gieck, Sagavanirktok River Tributary near Pump Station 3
John Martinisko, Ikalukrok Creek 0.6 miles below Red Dog Creek near Kivalina
Cliff Hickson, Anvik River near Anvik
Theresa Parent, Kuskokwim River at Crooked Creek
Robert Trejo, Nenana River at Healy
Nick Aleck, Alec River and Chignik River at Black Lake Outlet near Chignik

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.

2005 was nearly a repeat of the previous record-warm year. Temperatures were slightly cooler, although 2005 was the 8th warmest year since 1918, and the 6th consecutive above-average year for Alaska.

Winter streamflow was generally above average for the second year in a row. Warm temperatures delayed freeze-up throughout most of the state, and winter precipitation in southeast Alaska came as rain more often than as snow. In the Alaska Range and the Yukon basin, snow-water-equivalent amounts were as high as 175 percent of normal. However, with warm temperatures, ice thickness on major rivers was generally below normal. Spring breakup began early, but temperatures cooled somewhat in mid-May, and ice-jam flooding was rare. Snowmelt discharge was high, and mean monthly flows set records at many stations around the state. Yukon River at Pilot Station recorded the peak of record on May 16, the highest monthly mean flow during April and May, and the highest mean annual flow during 26 years of record. Many gages on smaller streams also recorded maximum monthly flows during April, May, and June.

For the second year in a row, high streamflow in May was followed by a remarkably hot and dry summer. High temperatures and low rainfall produced record or near-record low streamflow at many sites throughout the entire state. However, many glacier-fed streams experienced the highest monthly mean streamflow of record in July through September, breaking records set in 2004.

These same conditions resulted in the third worst wildfire season in Alaska’s history--over 4.4 million acres burned during the summer. 2004 had been the biggest fire season on record. During the past 2 years, 11 million acres have burned, almost 3 times the previous 2-year total. More than 10 percent of interior Alaska has been burned in the past 2 years. Some streamflow gaging stations were inaccessible for most of the summer.

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 2005, long-term monitoring of water levels continued in one well in Juneau, one well in Anchorage, and one well in Fairbanks. Additionally, water levels were measured in 23 wells near North Pole to monitor

ground-water levels in the vicinity of the Chena River dam. Water levels were also measured intermittently at 15 wells near Wasilla as part of a ground- and surface-water-quality study.

Water levels in the long-term monitoring wells in Juneau, Anchorage, and Fairbanks were within the range of historic values. Only 2 of the 15 wells near Wasilla had reported historical water levels. One water-level measurement in a well near Wasilla was slightly higher than the historic values, whereas water levels in the other well were within historical values. However, nearly all of the 23 monitoring wells near North Pole recorded new period of record low water levels.

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 2005 as part of the Clean Water Action Plan, water-quality, and bed-material samples were collected at sites in Lake Clark National Park and Preserve.

In 2005 sampling at 5 stations in the Yukon Basin continued as part of the National Stream-Quality Assessment Program (NASQAN), the fifth year of a five year monitoring program. The Alaska Water Resources Office is also collecting samples for personnel from the National Research Program to help extend the normal NASQAN data.

The record high air temperatures and low rainfall produced record high water temperatures throughout the entire state. Around one fifth of the water temperature stations had new record maximum water temperatures during a period of statewide clear skies in mid-August.

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 2005, contact the USGS Water Science Center at the address given on the back of the title page or the webpage at *http://alaska.usgs.gov/science/water/index.php*.

Dissolved Trace-Element Concentrations

Traditionally, dissolved trace-element concentrations have been reported at the microgram per liter (mg/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 mg/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 office 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 – 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 samples 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 collected in the Alaska Water Science Center are:

Source solution blank – a blank solution that is transferred to a sample bottle in an area of the office laboratory with an atmosphere that is relatively clean and protected with respect to target analytes.

Ambient blank – a blank solution that is put in the same type of bottle used for an environmental sample, kept with the set of sample bottles before sample collection, and opened at the site and exposed to the ambient conditions.

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.

Pump blank – a blank solution that is processed through the same pump-and-tubing system used for an environmental sample.

Standpipe blank – a blank solution that is poured from the containment vessel (stand-pipe) before the pump is inserted to obtain the pump blank.

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.

Canister blank – a blank solution that is taken directly from a stainless steel canister just before the VOC sampler is submerged to obtain a field blank sample.

REFERENCE SAMPLES – Reference material is a solution or material 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 – 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 the Alaska Water Science Center are:

Concurrent sample – a type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating collection of samples into two or more compositing containers.

Sequential sample – 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 – 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.

Concurrent sample – a type of spike sample that is collected at the same time with the same sampling and compositing devices then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

Split sample – a type of spike sample in which a sample is split into subsamples contemporaneous in time and space then spiked with the same spike solution containing laboratory-certified concentrations of selected analytes.

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 offstream water use for the state of Alaska was estimated for the year 2000. Fewer water use categories were estimated in 2000 than in previous surveys. Estimates will again be compiled for 2005.

The largest water uses are probably instream uses for hydroelectric power generation, and fish and wildlife resources. 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 1990-2005, Alaska's population increased 21 percent, which was one of the Nation's larger percentage increases. In 2005, Alaska's population increased by 1 percent. In 2005, about 60 percent of the State's population lived in the Anchorage, Fairbanks, and Juneau areas.

Because of the population increase and building water supply distribution systems in many villages in rural Alaska, public-supply use of water is also increasing. In 2000, 67 percent of the State's population received their water from a public-supply utility; the remainder supplied their own water. Mining was the largest category of water use in 2000 when including saline water use. This use was mostly production of hard rock minerals and fossil fuels.

In 2000, the water utilities in the Anchorage, Fairbanks, and Juneau areas used 61 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 2005 is shown in figure 1. (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 2000 average use from public supply was 190 gallons per day per person, while the nation's average is 180 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 around 70 percent of the 2005 State's public-water supply in these three cities, while ground water is the source for the remainder. Anchorage receives 83 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 71 percent of public-supply water from ground-water sources in 2005. 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.

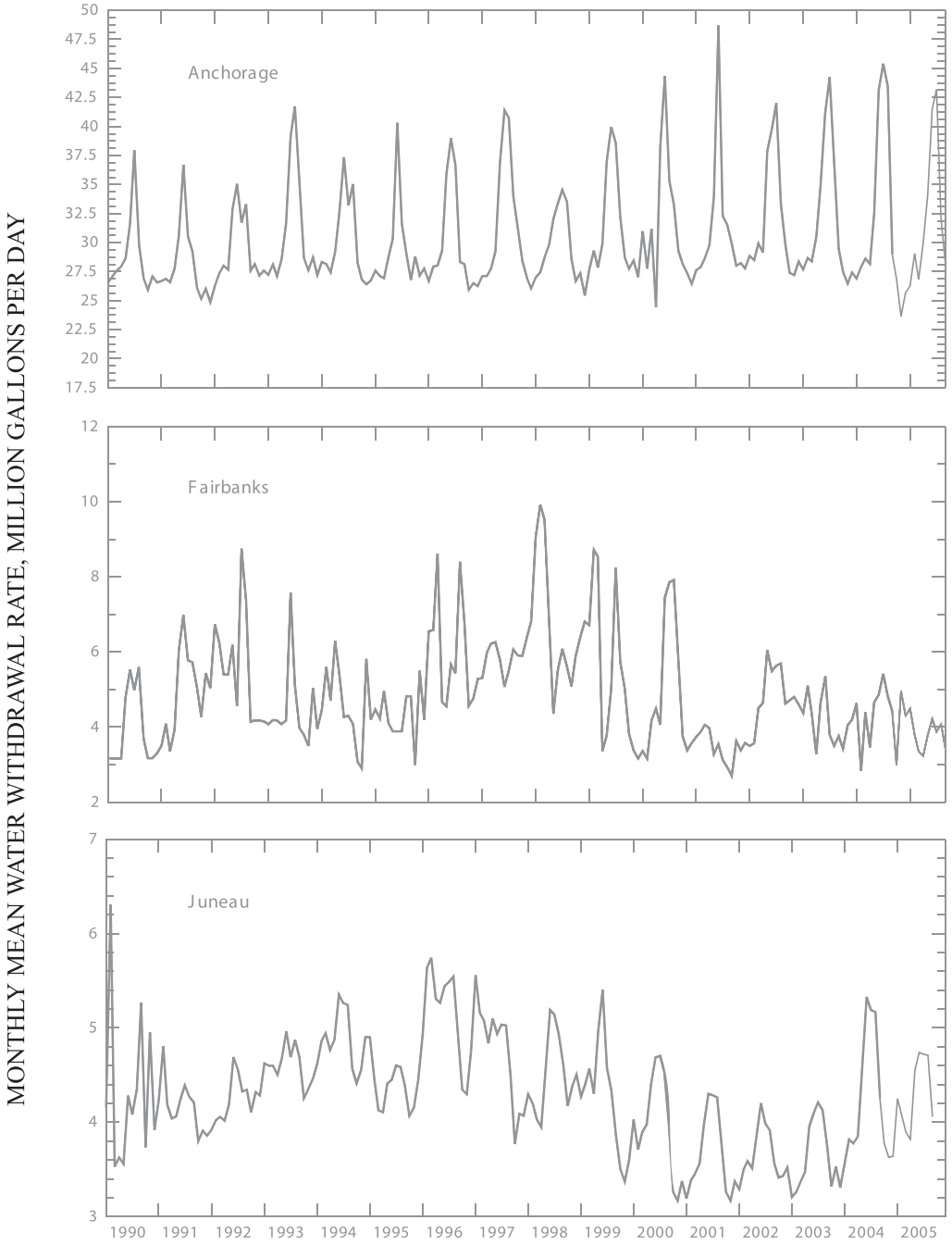


Figure 1. Monthly mean water withdrawal rate for public supply in the Anchorage, Fairbanks, and Juneau area, 1990 to 2005.

SPECIAL NETWORKS AND PROGRAMS

Hydrologic Benchmark Network is a network of 61 sites in small drainage basins in 39 States that was established in 1963 to provide consistent streamflow data representative of undeveloped watersheds nationwide, and from which data could be analyzed on a continuing basis for use in comparison and contrast with conditions observed in basins more obviously affected by human activities. At selected sites, water-quality information is being gathered on major ions and nutrients, primarily to assess the effects of acid deposition on stream chemistry. Additional information on the Hydrologic Benchmark Program may be accessed from *http://ny.cf.er.usgs.gov/hbn/*.

National Stream-Quality Accounting Network (NASQAN) is a network of sites used to monitor the water quality of large rivers within the Nation's largest river basins. From 1995 through 1999, a network of approximately 40 stations was operated in the Mississippi, Columbia, Colorado, and Rio Grande River basins. For the period 2000 through 2004, sampling was reduced to a few index stations on the Colorado and Columbia Rivers so that a network of five stations could be implemented on the Yukon River. 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 (NAWQA) Program; (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. Additional information about the NASQAN Program may be accessed from *http://water.usgs.gov/nasqan/*.

The **National Atmospheric Deposition Program/National Trends Network** (NADP/NTN) is a network of monitoring sites that provides continuous measurement and assessment of the chemical constituents in precipitation throughout the United States. As the lead Federal agency, the USGS works together with over 100 organizations to provide a long-term, spatial and temporal record of atmospheric deposition generated from this network of 250 precipitation-chemistry monitoring sites. The USGS supports 74 of these 250 sites. This long-term, nationally consistent monitoring program, coupled with ecosystem research, provides critical information toward a national scorecard to evaluate the effectiveness of ongoing and future regulations intended to reduce atmospheric emissions and subsequent impacts to the Nation's land and water resources. Reports and other information on the NADP/NTN Program, as well as data from the individual sites, may be accessed from *http://bqs.usgs.gov/acidrain/*.

The **USGS National Water-Quality Assessment (NAWQA) Program** 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; to provide an improved understanding of the primary natural and human factors affecting these observed conditions and trends; and to provide information that supports development and evaluation of management, regulatory, and monitoring decisions by other agencies.

Assessment activities are being conducted in 42 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 is 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 water-resources managers to use in making decisions 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 for collaboration among the agencies. Additional information about the NAWQA Program may be accessed from *http://water.usgs.gov/nawqa/*.

The **USGS National Streamflow Information Program (NSIP)** is a long-term program with goals to provide framework streamflow data across the Nation. Included in the program are creation of a permanent Federally funded streamflow network, research on the nature of streamflow, regional assessments of streamflow data and databases, and upgrades in the streamflow information delivery systems. Additional information about NSIP may be accessed from *http://water.usgs.gov/nsip/*.

EXPLANATION OF THE RECORDS

The surface-water and ground-water records published in this report are for the 2005 water year that began October 1, 2004, and ended September 30, 2005. 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, wells and miscellaneous sites where the data were collected are shown in maps 1, 2, 3 and 4. 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

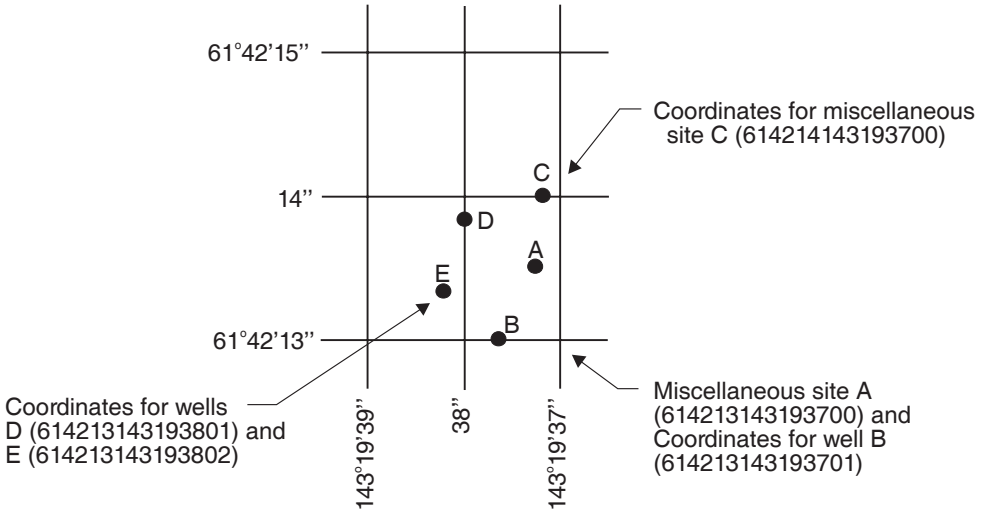
Since October 1, 1950, hydrologic-station records in USGS reports have been listed in order of downstream direction along the main stream. All stations on a tributary entering upstream from a main-stream station are listed before that station. A station on a tributary entering between two main-stream stations is listed between those stations. A similar order is followed in listing stations on first rank, second rank, and other ranks of tributaries. The rank of any tributary on which a station is located with respect to the stream to which it is immediately tributary is indicated by an indention in that list of stations in the front of this report. Each indentation represents one rank. This downstream order and system of indentation indicates which stations are on tributaries between any two stations and the rank of the tributary on which each station is located. 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).

As an added means of identification, each hydrologic station and partial-record station has been assigned a station number. These station numbers are in the same downstream order used in this report. In assigning a station number, no distinction is made between partial-record stations and other stations; therefore, the station number for a partial-record station indicates downstream-order position in a list composed 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 reservoirs 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

In addition to the well number that is based on the latitude and longitude for each well, another well number may be provided which in many States is based on the Public Land Survey System, a set of rectangular surveys that is used to identify land parcels. This well number is familiar to the water users of Alaska. 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 SE1/4 of NE1/4 of the SW1/4 of the NW1/4 (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 maps 1 and 2, respectively. Locations of miscellaneous discharge measurements for which data are given in this report are shown in map 3.

EXPLANATION OF STAGE AND WATER-DISCHARGE RECORDS

Data Collection and Computation

The base data collected at gaging stations consist of records of stage and measurements of discharge of streams or canals, and stage, surface area, and volume of lakes or reservoirs. In addition, observations of factors affecting the stage-discharge relation or the stage-capacity relation, weather records, and other information are used to supplement base data in determining the daily flow or volume of water in storage. Records of stage are obtained from a water-stage recorder that is either downloaded electronically in the field to a laptop computer or similar device or is transmitted using telemetry such as GOES satellite, land-line or cellular-phone modems, or by radio transmission. Measurements of discharge are made with a current meter or acoustic Doppler current profiler, using the general methods adopted by the USGS. These methods are described in standard textbooks, USGS Water-Supply Paper 2175, and the Techniques of Water-Resources Investigations of the United States Geological Survey (TWRIs), Book 3, Chapters A1 through A19 and Book 8, Chapters A2 and B2, which may be accessed from *http://pubs.usgs.gov/twri/*. The methods are consistent with the American Society for Testing and Materials (ASTM) standards and generally follow the standards of the International Organization for Standardization (ISO).

For stream-gaging stations, discharge-rating tables for any stage are prepared from stage-discharge curves. If extensions to the rating curves are necessary to express discharge greater than measured, the extensions are made on the basis of indirect measurements of peak discharge (such as slope-area or contracted-opening measurements, or computation of flow over dams and weirs), step-backwater techniques, velocity-area studies, and logarithmic plotting. The daily mean discharge is computed from gage heights and rating tables, then the monthly and yearly mean discharges are computed from the daily values. If the stage-discharge relation is subject to change because of frequent or continual change in the physical features of the stream channel, the daily mean discharge is computed by the shifting-control method in which correction factors that are based on individual discharge measurements and notes by engineers and observers are used when applying the gage heights to the rating tables. If the stage-discharge relation for a station is temporarily changed by the presence of aquatic growth or debris on the controlling section, the daily mean discharge is computed by the shifting-control method.

The stage-discharge relation at some stream-gaging stations is affected by backwater from reservoirs, tributary streams, or other sources. Such an occurrence necessitates the use of the slope method in which the slope or fall in a reach of the stream is a factor in computing discharge. The slope or fall is obtained by means of an auxiliary gage at some distance from the base gage.

An index velocity is measured using ultrasonic or acoustic instruments at some stream-gaging stations, and this index velocity is used to calculate an average velocity for the flow in the stream. This average velocity along with a stage-area relation is then used to calculate average discharge.

At some stations, the stage-discharge relation is affected by changing stage. At these stations, the rate of change in stage is used as a factor in computing discharge.

At most stream-gaging stations in Alaska, the stage-discharge relation is affected by ice in the winter; therefore, computation of the discharge in the usual manner is impossible. Discharge for periods of ice effect is computed on the basis of gage-height record and occasional winter-discharge measurements. Consideration is given to the available information on temperature and precipitation, notes by gage observers and hydrologists, and comparable records of discharge from other stations in the same or nearby basins.

For a lake or reservoir station, capacity tables giving the volume or contents for any stage are prepared from stage-area relation curves defined by surveys. The application of the stage to the capacity table gives the contents, from which the daily, monthly, or yearly changes are computed.

If the stage-capacity curve is subject to changes because of deposition of sediment in the reservoir, periodic resurveys of the reservoir are necessary to define new stage-capacity curves. During the period between reservoir surveys, the computed contents may be increasingly in error due to the gradual accumulation of sediment.

For some stream-gaging stations, periods of time occur when no gage-height record is obtained or the recorded gage height is faulty and cannot be used to compute daily discharge or contents. Such a situation can happen when the recorder stops or otherwise fails to operate properly, the 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 from other stations in the same or nearby basins. Likewise, lake or reservoir volumes may be estimated on the basis of operator's log, prior and subsequent records, inflow-outflow studies, and other information.

Data Presentation

The records published for each continuous-record surface-water discharge station (stream-gaging station) consist of four parts: (1) the station manuscript or description; (2) the data table of daily mean values of discharge for the current water year with summary data; (3) a tabular statistical summary of monthly mean flow data for a designated period, by water year; and (4) 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 minimums, and flow duration.

The records published for each crest-stage partial-record station consists of three parts: (1) the station manuscript or description; (2) the table of date, gage height and discharge for measurements made during the current water year; and (3) a table of maximum peaks for the current water year and period of record.

Station Manuscript

The manuscript provides, under various headings, descriptive information, such as station location; period of record; historical extremes outside the period of record; record accuracy; and other remarks pertinent to station operation and regulation. The following information, as appropriate, is provided with each continuous record of discharge or lake content. Comments follow that clarify information presented under the various headings of the station description.

LOCATION.—Location information is obtained from the most accurate maps available. The location of the gaging station with respect to the cultural and physical features in the vicinity and with respect to the reference place mentioned in the station name is given. River mileages, given for only a few stations, were determined by methods given in “River Mileage Measurement,” Bulletin 14, Revision of October 1968, prepared by the Water Resources Council or were provided by the U.S. Army Corps of Engineers.

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, the accuracy of drainage areas likewise varies. Drainage areas are updated as better maps become available.

PERIOD OF RECORD.—This term indicates the time period for which records have been published for the station or for an equivalent station. An equivalent station is one that was in operation at a time that the present station was not and whose location was such that its flow reasonably can be considered equivalent to flow at the present station.

REVISED RECORDS.—If a critical error in published records is discovered, a revision is included in the first report published following discovery of the error.

GAGE.—The type of gage in current use, the datum of the current gage referred to a standard datum, and a condensed history of the types, locations, and datums of previous gages are given under this heading.

REMARKS.—All periods of estimated daily discharge either will be identified by date in this paragraph of the station description for water-discharge stations or flagged in the daily discharge table. (See section titled Identifying Estimated Daily Discharge.) Information is presented relative to the accuracy of the records, to special methods of computation, and to conditions that affect natural flow at the station. In addition, information may be presented pertaining to average discharge data for the period of record; to extremes data for the period of record and the current year; and, possibly, to other pertinent items. For reservoir stations, information is given on the dam forming the reservoir, the capacity, the outlet works and spillway, and the purpose and use of the reservoir.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES OUTSIDE PERIOD OF RECORD.—Information here documents major floods or unusually low flows that occurred outside the stated period of record. The information may or may not have been obtained by the USGS.

REVISIONS.—Records are revised if errors in published records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based national data system, NWISWeb (*http://waterdata.usgs.gov/nwis/nwis*). Users are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent data updates. Updates to NWISWeb are made on an annual basis.

Although rare, occasionally the records of a discontinued gaging station may need revision. Because no current or, possibly, future station manuscript would be published for these stations to document the revision in a REVISED RECORDS entry, users of data for these stations who obtained the record from previously published data reports may wish to contact the USGS Water Science Center (address given on the back of the title page of this report) to determine if the published records were revised after the station was discontinued. If, however, the data for a discontinued station were obtained by computer retrieval, the data would be current. Any published revision of data is always 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 stage-capacity table when daily volumes are given.

Peak Discharge Greater than Base Discharge

Tables of peak discharge above base discharge are included for some stations where secondary instantaneous peak discharge data are used in flood-frequency studies of highway and bridge design, flood-control structures, and other flood-related projects. The base discharge value is selected so an average of three peaks a year will be reported. This base discharge value has a recurrence interval of approximately 1.1 years or a 91-percent chance of exceedence in any 1 year.

Data Table of Daily Mean Values

The daily table of discharge records for stream-gaging stations gives mean discharge for each day of the water year. In the monthly summary for the table, the line headed TOTAL gives the sum of the daily figures for each month; the line headed MEAN gives the arithmetic 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 is expressed in cubic feet per second per square mile (line headed CFSM); or in inches (line headed IN); or in acre-feet (line headed AC-FT). Values for cubic feet per second per square mile and runoff in inches or in acre-feet may be omitted if extensive regulation or diversion is in effect or if the drainage area includes large noncontributing areas. At some stations, monthly and (or) yearly observed discharges are adjusted for reservoir storage or diversion, or diversion data or reservoir volumes are given. These values are identified by a symbol and a corresponding footnote.

Statistics of Monthly Mean Data

A tabular summary of the mean (line headed MEAN), maximum (MAX), and minimum (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 values. 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. The designated period will consist of all of the station record within the specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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 specified water years, including complete months of record for partial water years, and may coincide with the period of record for the station. The water years for which the statistics are computed are 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 the dates of occurrence do not fall within the selected water years listed in the heading, it will be noted in the REMARKS paragraph or in footnotes. Selected streamflow duration-curve statistics and runoff data also are given. Runoff data may be omitted if extensive regulation or diversion of flow is in effect in the drainage basin.

The following summary statistics data are provided with each continuous record of discharge. Comments that follow 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.

ANNUAL MEAN.—The arithmetic mean for the individual daily mean discharges for the year noted or for the designated period.

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 7 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.

MAXIMUM PEAK FLOW.—The maximum instantaneous peak discharge occurring for the water year or designated period. Occasionally the maximum flow for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak flow is given in the table and the maximum flow may be reported in a footnote or in the REMARKS paragraph in the manuscript.

MAXIMUM PEAK STAGE.—The maximum instantaneous peak stage occurring for the water year or designated period. Occasionally the maximum stage for a year may occur at midnight at the beginning or end of the year, on a recession from or rise toward a higher peak in the adjoining year. In this case, the maximum peak stage is given in the table and the maximum stage may be reported in the REMARKS paragraph in the manuscript or in a footnote. If the dates of occurrence of the maximum peak stage and maximum peak flow are different, the REMARKS paragraph in the manuscript or a footnote may be used to provide further information. (For Alaska, a second line heading, MAXIMUM 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 equivalent to 43,560 cubic feet or about 326,000 gallons or 1,233 cubic meters.
>
> Cubic feet per square mile (CFSM) 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.
>
> Inches (INCHES) indicate 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. Data for partial-record discharge stations are presented in two tables. The first table lists annual maximum stage and

discharge at crest-stage stations, and the second table lists discharge measurements at low-flow partial-record stations. The tables of partial-record stations are followed by a listing of discharge measurements made at sites other than continuous-record or partial-record stations. These measurements are often made in times of drought or flood to give better areal coverage to those events. Those measurements and others collected for a special reason are called measurements at miscellaneous sites.

Identifying Estimated Daily Discharge

Estimated daily-discharge values published in the water-discharge tables of annual State data reports are identified. This identification is shown either by flagging individual daily values with the letter "e" and noting in a table footnote, "e–Estimated," or by listing the dates of the estimated record in the REMARKS paragraph of the station description.

Accuracy of Field Data and Computed Results

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 degree of accuracy of the records is stated in the REMARKS in the station description. "Excellent" indicates 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. "Poor" indicates that daily discharges have less than "fair" accuracy. Different accuracies may be attributed to different parts of a given record.

Values 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 tenths between 1.0 and 10 ft^3/s; to whole numbers between 10 and 1,000 ft^3/s; and to three 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 discharge values listed for partial-record stations.

Discharge at many stations, as indicated by the monthly mean, may not reflect natural runoff due to the effects of diversion, consumption, regulation by storage, increase or decrease in evaporation due to artificial causes, or to other factors. For such stations, values of cubic feet per second per square mile and of runoff in inches are not published unless satisfactory adjustments can be made for diversions, for changes in contents of reservoirs, or for other changes incident to use and control. Evaporation from a reservoir is not included in the adjustments for changes in reservoir contents, unless it is so stated. Even at those stations where adjustments are made, large errors in computed runoff may occur if adjustments or losses are large in comparison with the observed discharge.

Other Data Records Available

Information of a more detailed nature than that published for most of the stream-gaging stations such as discharge measurements, gage-height records, and rating tables is available from the USGS Water Science Center . Also, most stream-gaging station records are available in computer-usable form and many statistical analyses have been made.

Information on the availability of unpublished data or statistical analyses may be obtained from the USGS Water Science Center (see address that is shown on the back of the title page of this report).

EXPLANATION OF WATER-QUALITY RECORDS

Collection and Examination of Data

Surface-water samples for analysis usually are collected at or near stream-gaging stations. The quality-of-water records are given immediately following the discharge records at these stations.

The descriptive heading for water-quality records gives the period of record for all water-quality data; the period of daily record for parameters that are measured on a daily basis (specific conductance, water temperature, sediment discharge, and so forth); extremes for the current year; and general remarks.

For ground-water records, no descriptive statements are given; however, the well number, depth of well, sampling date, or other pertinent data are given in the table containing the chemical analyses of the ground water.

Water Analysis

Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://pubs.usgs.gov/twri/*.

One sample can define adequately 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 at several verticals to obtain a representative sample needed for an accurate mean concentration and for use in calculating load.

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.

For chemical-quality stations equipped with digital monitors, the records consist of daily maximum and minimum values (and sometimes mean or median values) for each constituent measured and are based on 15-minute or 1-hour intervals of recorded data beginning at 0000 hours and ending at 2400 hours for the day of record.

EXPLANATION OF SURFACE-WATER-QUALITY RECORDS

Records of surface-water quality ordinarily are obtained at or near stream-gaging stations because discharge data are useful in the interpretation of surface-water quality. 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 *continuous-record station* is a site where data are collected on a regularly scheduled basis. Frequency may be one or

more times daily, weekly, monthly, or quarterly. A *partial-record station* is a site where limited 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 continuous- or partial-record station, where samples are collected to give better areal coverage to define water-quality conditions in the river basin.

A careful distinction needs to be made between *continuous records* as used in this report and *continuous recordings* that refer 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 through continuous recordings; however, because of costs, most data are obtained only monthly or less frequently.

Accuracy of the Records

One of four accuracy classifications is applied for measured physical properties at continuous-record stations on a scale ranging from poor to excellent. The accuracy rating is based on data values recorded before any shifts or corrections are made. Additional consideration also is given to the amount of publishable record and to the amount of data that have been corrected or shifted.

Rating the accuracy of continuous water-quality records

[≤, less than or equal to; ±, plus or minus value shown; °C, degree Celsius; >, greater than; %, percent; mg/L, milligram per liter; pH unit, standard pH unit]

Measured field parameter	Ratings of accuracy (Based on combined fouling and calibration drift corrections applied to the record)			
	Excellent	Good	Fair	Poor
Water temperature	≤ ± 0.2 °C	> ± 0.2 – 0.5 °C	> ± 0.5 – 0.8 °C	> ± 0.8 °C
Specific conductance	≤ ± 3%	> ± 3 – 10%	> ± 10 – 15%	> ± 15%
Dissolved oxygen	≤ ± 0.3 mg/L or ≤ ± 5%, whichever is greater	> ± 0.3 – 0.5 mg/L or > ± 5 – 10%, whichever is greater	> ± 0.5 – 0.8 mg/L or > ± 10 – 15%, whichever is greater	> ± 0.8 mg/L or > ± 15%, whichever is greater
pH	≤ ± 0.2 units	> ± 0.2 – 0.5 units	> ± 0.5 – 0.8 units	> ± 0.8 units
Turbidity	≤ ± 0.5 turbidity units or ≤ ± 5%, whichever is greater	> ± 0.5 – 1.0 turbidity units or > ± 5 – 10%, whichever is greater	> ± 1.0 – 1.5 turbidity units or > ± 10 – 15%, whichever is greater	> ± 1.5 turbidity units or > ± 15%, whichever is greater

Arrangement of Records

Water-quality records collected at a surface-water daily record station or a crest-stage partial-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 miscellaneous sampling sites appear in separate tables following the table of discharge measurements at miscellaneous sites. Locations of miscellaneous water-qualitysampling sites for which data are given in this report are shown in map 3.

Onsite Measurements and Sample Collection

In obtaining water-quality data, a major concern is assuring that the data obtained represent the naturally occurring quality of the water. To ensure this, certain measurements, such as water temperature, pH, and dissolved oxygen, must be made onsite when the samples are collected. To assure that measurements made in the laboratory also represent the naturally occurring water, carefully prescribed procedures must be followed in collecting the samples, in treating the samples to prevent changes in quality pending analysis, and in shipping the samples to the laboratory. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4; and Book 9, Chapters A1-A9. Most of the methods used for collecting and analyzing water samples are described in the TWRIs, which may be accessed from *http://pubs.usgs.gov/twri/*. Also, detailed information on collecting, treating, and shipping samples can be obtained from the USGS Water Science Center (see address that is shown on the back of title page in this report).

Water Temperature

Water temperatures are measured at most of the water-quality stations. In addition, water temperatures are taken at the time of discharge measurements for water-discharge stations. For stations where water temperatures are taken manually once or twice daily, the water temperatures are taken at about the same time each day. Large streams have a small diurnal 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 recording instruments are used, either mean temperatures or maximum and minimum temperatures for each day are published. Water temperatures measured at the time of water-discharge measurements are on file in the USGS Water Science Center.

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 section.

During periods of rapidly changing flow or rapidly changing concentration, samples may be collected more frequently (twice daily or, in some instances, hourly). The published sediment discharges for days of rapidly changing flow or concentration are 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 discharges 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 are collected periodically at many verticals in the stream cross section. Although data collected periodically may represent conditions only at the time of observation, such data are useful in establishing seasonal relations between quality and streamflow and in predicting long-term sediment-discharge characteristics of the stream.

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

Laboratory Measurements

Samples for biochemical oxygen demand (BOD) and indicator bacteria are analyzed locally. All other samples are analyzed in the USGS laboratory in Lakewood, Colorado, unless otherwise noted. Methods used in analyzing sediment samples and computing sediment records are given in TWRI, Book 5, Chapter C1. Methods used by the USGS laboratories are given in the TWRIs, Book 1, Chapter D2; Book 3, Chapter C2; and Book 5, Chapters A1, A3, and A4. The TWRI publications may be accessed from *http://pubs.usgs.gov/twri/*. These methods are consistent with ASTM standards and generally follow ISO standards.

Data Presentation

For continuing-record stations, information pertinent to the history of station operation is provided in descriptive headings preceding the tabular data. These descriptive headings give details regarding location, drainage area, period of record, type of data available, instrumentation, general remarks, cooperation, and extremes for parameters currently measured daily. Tables of chemical, physical, biological, radiochemical data, and so forth, obtained at a frequency less than daily are presented first. Tables of "daily values" of specific conductance, pH, water temperature, dissolved oxygen, and suspended sediment then follow in sequence.

In the descriptive headings, if the location is identical to that of the discharge gaging station, neither the LOCATION nor the DRAINAGE AREA statements are repeated. The following information is provided with each continuous-record station. Comments that follow clarify information presented under the various headings of the station description.

LOCATION.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

DRAINAGE AREA.—See Data Presentation information in the EXPLANATION OF STAGE- AND WATER-DISCHARGE RECORDS section of this report (same comments apply).

PERIOD OF RECORD.—This indicates the time periods for which published water-quality records for the station are available. The periods are shown separately for records of parameters measured daily or continuously and those measured less than daily. For those measured daily or continuously, periods of record are given for the parameters individually.

INSTRUMENTATION.—Information on instrumentation is given only if a water-quality monitor temperature record, sediment pumping sampler, or other sampling device is in operation at a station.

REMARKS.—Remarks provide added information pertinent to the collection, analysis, or computation of the records.

COOPERATION.—Records provided by a cooperating organization or obtained for the USGS by a cooperating organization are identified here.

EXTREMES.—Maximums and minimums are given only for parameters measured daily or more frequently. For parameters measured weekly or less frequently, true maximums or minimums may not have

been obtained. Extremes, when given, are provided for both the period of record and for the current water year.

REVISIONS.—Records are revised if errors in published water-quality records are discovered. Appropriate updates are made in the USGS distributed data system, NWIS, and subsequently to its Web-based national data system, NWISWeb (*http://waterdata.usgs.gov/nwis*). Users of USGS water-quality data are encouraged to obtain all required data from NWIS or NWISWeb to ensure that they have the most recent updates. Updates to the NWISWeb are made on an annual basis.

The surface-water-quality records for partial-record stations and miscellaneous sampling sites are published in separate tables following the table of discharge measurements at miscellaneous sites. No descriptive statements are given for these records. Each station is published with its own station number and name in the regular downstream-order sequence.

Remark Codes

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

Printed Output	Remark
e	Value is estimated.
>	Actual value is known to be greater than the value shown.
<	Actual value is known to be less than the value shown.
M	Presence of material verified, but not quantified.
N	Presumptive evidence of presence of material.
U	Material specifically analyzed for, but not detected.
A	Value is an average.
V	Analyte was detected in both the environmental sample and the associated blanks.
S	Most probable value.

Water-Quality Control Data

The USGS National Water Quality Laboratory collects quality-control data on a continuing basis to evaluate selected analytical methods to determine long-term method detection levels (LT-MDLs) and laboratory reporting levels (LRLs). These values are re-evaluated each year on the basis of the most recent quality-control data and, consequently, may change from year to year.

This reporting procedure limits the occurrence of false positive error. Falsely reporting a concentration greater than the LT-MDL for a sample in which the analyte is not present is 1 percent or less. Application of the LRL limits the occurrence of false negative error. The chance of falsely reporting a nondetection for a sample in which the analyte is present at a concentration equal to or greater than the LRL is 1 percent or less.

Accordingly, concentrations are reported as less than LRL for samples in which the analyte either was not detected or did not pass identification. Analytes detected at concentrations between the LT-MDL and the LRL and that pass identification criteria are estimated. Estimated concentrations will be noted with a remark code of “E.” These data should be used with the understanding that their uncertainty is greater than that of data reported without the E remark code.

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 a USGS Water Science Center 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. These data are not presented in this report but are available from the USGS Water Science Center.

Blank Samples

Blank samples are collected and analyzed to ensure that environmental samples have not been contaminated in 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. Many types of blank samples are possible; each is designed to segregate a different part of the overall data-collection process. The types of blank samples collected by this USGS Water Science Center 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

Reference material is a solution or material prepared by a laboratory. The reference material 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

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. Many types of replicate samples are 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:

Concurrent samples—A type of replicate sample in which the samples are collected simultaneously with two or more samplers or by using one sampler and alternating the collection of samples into two or more compositing containers.

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, each subsample contemporaneous in time and space.

Spike Samples

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.

EXPLANATION OF GROUND-WATER-LEVEL RECORDS

Generally, only ground-water-level data from selected wells with continuous recorders from a basic network of observation wells are published in this report. This basic network contains observation wells located so that the most significant data are obtained from the fewest wells in the most important aquifers.

Site Identification Numbers

Each well is identified by means of (1) a 15-digit number that is based on latitude and longitude and (2) a local number that is produced for local needs.

Data Collection and Computation

Measurements are made in many types of wells, under varying conditions of access and at different temperatures; hence, neither the method of measurement nor the equipment can be standardized. At each observation well, however, the equipment and techniques used are those that will ensure that measurements at each well are consistent.

Most methods for collecting and analyzing water samples are described in the TWRIs referred to in the Onsite Measurements and Sample Collection and the Laboratory Measurements sections in this report. In addition, TWRI Book 1, Chapter D2, describes guidelines for the collection and field analysis of ground-water samples for selected unstable constituents. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRIs Book 1, Chapter D2; Book 3, Chapters A1, A3, and A4;

and Book 9, Chapters A1 through A9. The TWRI publications may be accessed from http://pubs.usgs.gov/twri/.

Water-level measurements in this report are given in feet with reference to land-surface datum (lsd). Land-surface datum is a datum plane that is approximately at land surface at each well. If known, the elevation of the land-surface datum above sea level is given in the well description. The height of the measuring point (MP) above or below land-surface datum is given in each well description. Water levels in wells equipped with recording gages are reported for every day.

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 of water of several hundred feet, the error in determining the absolute value of the total depth to water may be a few tenths of a foot, whereas 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 are given only to a tenth of a foot or a larger unit.

Data Presentation

Water-level data are presented in alphabetical order by county. The primary identification number for a given well is the 15-digit site identification number that appears in the upper left corner of the table. The secondary identification number is the local or county well number. Well locations are shown and each well is identified by its local well or county well number on a map in this report (map 4).

Each well record consists of three parts: the well description, the data table of water levels observed during the water year, and, for most wells, a hydrograph following the data table. Well descriptions are presented in the headings preceding the tabular data.

The following comments clarify information presented in these various headings.

LOCATION.—This paragraph follows the well-identification number and reports the hydrologic-unit number and a geographic point of reference. Latitudes and longitudes used in this report are reported as North American Datum of 1927 unless otherwise specified.

AQUIFER.—This entry designates by name and geologic age the aquifer that the well taps.

WELL CHARACTERISTICS.—This entry describes the well in terms of depth, casing diameter and depth or screened interval, method of construction, use, and 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 continuous, monthly, or some other frequency of measurement.

DATUM.—This entry describes both the measuring point and the land-surface elevation at the well. The altitude of the land-surface datum is described in feet above the altitude datum; it is reported with a precision depending on the method of determination. The measuring point is described physically (such as top of casing, top of instrument shelf, and so forth), 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 National Geodetic Vertical Datum of 1929 (NGVD 29); it is reported with a precision depending on the method of determination.

REMARKS.—This entry describes factors that may affect the water level in a well or the measurement of the water level, when various methods of measurement were begun, and the network (climatic, terrane, local, or areal effects) or the special project to which the well belongs.

PERIOD OF RECORD.—This entry indicates the time period for which records are published for the well, the month and year at the start of publication of water-level records by the USGS, and the words "to current year" if the records are to be continued into the following year. Time periods for which water-level records are available, but are not published by the USGS, may be noted.

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

Water-Level Tables

A table of water levels follows the well description for each well. Water-level measurements in this report are given in feet with reference to either sea level or land-surface datum (lsd). Missing records are indicated by dashes in place of the water-level value.

For wells not equipped with recorders, water-level measurements were obtained periodically by steel or electric tape. Tables of periodic water-level measurements in these wells show the date of measurement and the measured water-level value.

EXPLANATION OF GROUND-WATER-QUALITY DATA

Data Collection and Computation

The ground-water-quality data in this report were obtained as a part of special studies in specific areas. Consequently, a number of chemical analyses are presented for some wells within a county but not for others. As a result, the records for this year, by themselves, do not provide a balanced view of ground-water quality statewide.

Most methods for collecting and analyzing water samples are described in the TWRIs, which may be accessed from http://pubs.usgs.gov/twri/. Procedures for onsite measurements and for collecting, treating, and shipping samples are given in TWRI, Book 1, Chapter D2; Book 5, Chapters A1, A3, and A4; and Book 9, Chapters A1-A6. Also, detailed information on collecting, treating, and shipping samples may be obtained from the USGS Water Science Center (see address shown on back of title page in this report).

The values in this report represent water-quality conditions at the time of sampling, as much as possible, and that are consistent with available sampling techniques and methods of analysis. These methods are consistent with ASTM standards and generally follow ISO standards. Trained personnel collected all samples. The wells sampled were pumped long enough to ensure that the water collected came directly from the aquifer and had not stood for a long time in the well casing where it would have been exposed to the atmosphere and to the material, possibly metal, comprising the casings.

Laboratory Measurements

Analysis for sulfide and measurement of alkalinity, pH, water temperature, specific conductance, and dissolved oxygen are performed onsite. All other sample analyses are performed at the USGS laboratory in

Lakewood, Colorado, unless otherwise noted. Methods used by the USGS laboratory are given in TWRI, Book 1, Chapter D2 and Book 5, Chapters A1, A3, and A4, which may be accessed from *http://pubs.usgs.gov/twri/*.

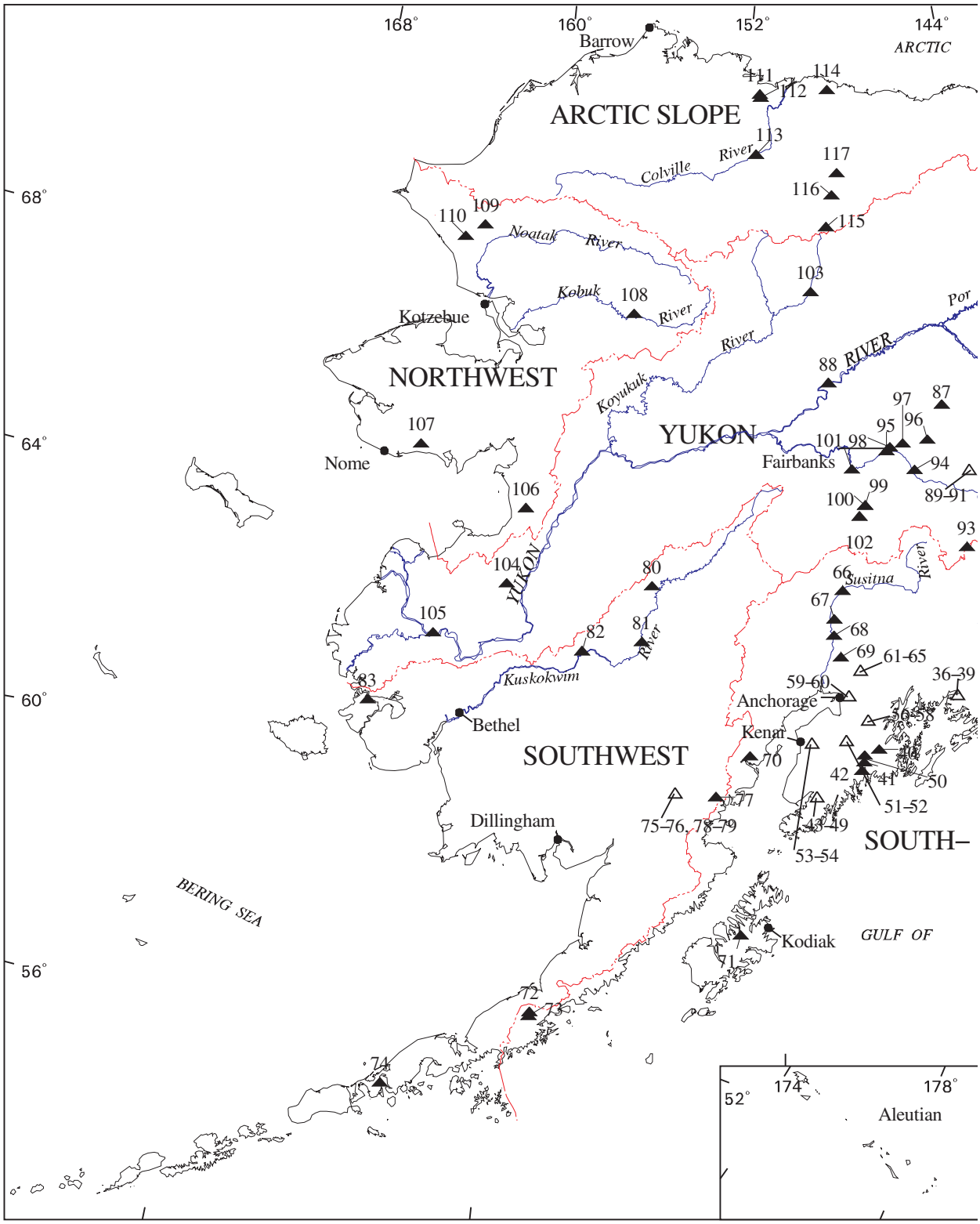
ACCESS TO USGS WATER DATA

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 World Wide Web (WWW). These data may be accessed from *http://water.usgs.gov*.

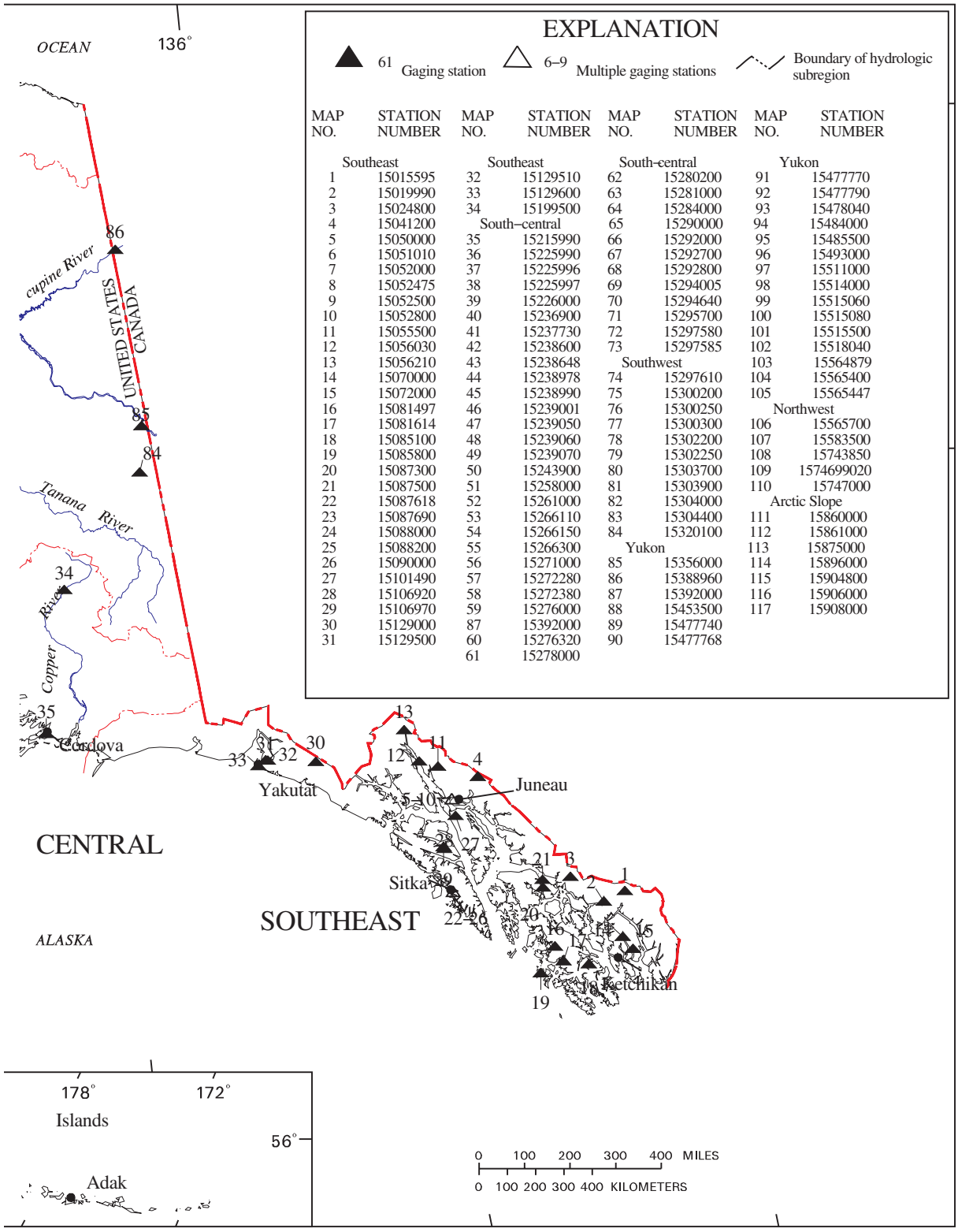
Water-quality data and ground-water data also are available through the WWW. In addition, data can be provided in various machine-readable formats on various media. Information about the availability of specific types of data or products, and user charges, can be obtained locally from each USGS Water Science Center (See address that is shown on the back of the title page of this report.)

DEFINITION OF TERMS

Specialized technical terms related to streamflow, water-quality, and other hydrologic data, as used in this report, may be accessed from *http://water.usgs.gov/ADR_Defs_2004.pdf*. Terms such as algae, water level, and precipitation are used in their common everyday meanings, definitions of which are given in standard dictionaries. Not all terms defined in this alphabetical list apply to every State. See also table for converting English units to International System (SI) Units. Other glossaries that also define water-related terms are accessible from *http://water.usgs.gov/glossaries.html*.



Map 1. Locations of gaging stations.



MAP NO.	STATION NUMBER	MAP NO.	STATION NUMBER	MAP NO.	STATION NUMBER	MAP NO.	STATION NUMBER
Southeast		Southeast		South-central		Yukon	
1	15015595	32	15129510	62	15280200	91	15477770
2	15019990	33	15129600	63	15281000	92	15477790
3	15024800	34	15199500	64	15284000	93	15478040
4	15041200	South–central		65	15290000	94	15484000
5	15050000	35	15215990	66	15292000	95	15485500
6	15051010	36	15225990	67	15292700	96	15493000
7	15052000	37	15225996	68	15292800	97	15511000
8	15052475	38	15225997	69	15294005	98	15514000
9	15052500	39	15226000	70	15294640	99	15515060
10	15052800	40	15236900	71	15295700	100	15515080
11	15055500	41	15237730	72	15297580	101	15515500
12	15056030	42	15238600	73	15297585	102	15518040
13	15056210	43	15238648	Southwest		103	15564879
14	15070000	44	15238978	74	15297610	104	15565400
15	15072000	45	15238990	75	15300200	105	15565447
16	15081497	46	15239001	76	15300250	Northwest	
17	15081614	47	15239050	77	15300300	106	15565700
18	15085100	48	15239060	78	15302200	107	15583500
19	15085800	49	15239070	79	15302250	108	15743850
20	15087300	50	15243900	80	15303700	109	1574699020
21	15087500	51	15258000	81	15303900	110	15747000
22	15087618	52	15261000	82	15304000	Arctic Slope	
23	15087690	53	15266110	83	15304400	111	15860000
24	15088000	54	15266150	84	15320100	112	15861000
25	15088200	55	15266300	Yukon		113	15875000
26	15090000	56	15271000	85	15356000	114	15896000
27	15101490	57	15272280	86	15388960	115	15904800
28	15106920	58	15272380	87	15392000	116	15906000
29	15106970	59	15276000	88	15453500	117	15908000
30	15129000	87	15392000	89	15477740		
31	15129500	60	15276320	90	15477768		
		61	15278000				

15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL

LOCATION.--Lat 56°14′26″, long 130°52′49″, in NW¼ NW¼ NE¼ sec. 16, T. 65 S., R. 94 E. (Bradfield Canal A-3 quad), Hydrologic Unit 19010101, in Misty Fiords National Monument, on right bank 17 mi upstream from the Post (Bishop Ranch), near the mouth of Burroughs Bay and approximately 60 mi southeast of Wrangell.

DRAINAGE AREA.--745 mi^2.

PERIOD OF RECORD.--April 2003 to current year (no winter record).

GAGE.--Water-stage recorder. Elevation of gage is 130 ft above sea level, from topographic map.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge 34,800 ft^3/s, October 26, 2003, gage height 29.48 ft; minimum discharge not determined, usually occurs during winter.

EXTREMES FOR CURRENT YEAR.--Maximum discharge 24,200 ft^3/s, October 13, gage-height 30.10 ft; minimum discharge 914 ft^3/s, February 24, gage height 20.89 ft, but may have been lower during winter.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5000	3190	2080	---	---	1110	1410	4960	11100	11000	8340	9570
2	4820	3770	5930	---	---	1340	1330	4880	10900	11000	7980	8540
3	4630	4590	8510	---	---	1830	1320	4970	10500	11100	8090	7530
4	5140	8570	4880	---	---	2230	1420	5310	9750	14100	9840	6810
5	9680	4990	3490	---	---	2180	1390	5510	9290	15000	10300	6410
6	10400	3710	2590	---	---	1970	1330	5900	9350	13000	10500	8220
7	11600	3100	2160	---	---	2040	1430	6500	10200	11600	9910	13600
8	7790	2820	2220	---	---	2550	1510	6690	11400	10400	9830	13800
9	6340	2520	2210	---	---	3330	1580	7200	11600	9550	10400	9750
10	7060	2310	2010	---	---	3720	1670	7950	10500	9830	10900	8330
11	6480	2170	1850	---	---	5400	1720	8370	10200	9820	11600	7760
12	6230	2050	1720	---	---	3710	1740	8050	10200	9510	13000	7570
13	18900	2100	1620	---	---	2980	1650	8140	9700	9550	13200	8840
14	11700	2470	1590	---	---	2640	1590	10100	10600	9820	13200	7790
15	8650	2750	1610	---	---	2440	1550	11900	9880	11400	12500	6630
16	7030	2700	3170	---	---	2190	1520	10200	9370	10900	10800	6040
17	5760	2400	4570	---	---	1950	1580	8940	10000	11300	10300	5900
18	4900	2120	6380	---	---	1780	1640	8400	11600	11500	11300	11100
19	4190	1960	11000	---	---	1550	2200	8890	12600	10400	16200	11200
20	3940	2670	6620	---	---	1490	2740	8940	12300	9820	15600	8200
21	3670	9050	4620	---	---	1470	3180	8080	12000	9750	13300	6480
22	3610	5440	3710	---	1020	1350	4060	7920	10100	9530	11400	5640
23	3310	3910	3700	---	996	1280	4530	8190	9520	9480	9700	5380
24	3110	3280	5190	---	956	1230	6130	8860	9420	9330	8640	6170
25	2990	2900	4460	---	968	1190	7640	8850	9670	9020	8590	7810
26	2790	2670	3310	---	955	1170	8030	8770	10200	9000	10800	6160
27	2700	2430	---	---	964	1260	9070	10200	10900	11000	9500	5010
28	2780	2260	---	---	1030	1280	9130	10600	11700	12600	8520	12200
29	3970	2170	---	---	---	1230	7490	11000	12400	10600	8320	11600
30	3770	2080	---	---	---	1220	5980	11300	12100	9100	9830	8530
31	3210	---	---	---	---	1330	---	11200	---	8760	11100	---
TOTAL	186150	99150	---	---	---	62440	97560	256770	319050	328770	333490	248570
MEAN	6005	3305	---	---	---	2014	3252	8283	10640	10610	10760	8286
MAX	18900	9050	---	---	---	5400	9130	11900	12600	15000	16200	13800
MIN	2700	1960	---	---	---	1110	1320	4880	9290	8760	7980	5010
AC-FT	369200	196700	---	---	---	123800	193500	509300	632800	652100	661500	493000
CFSM	8.06	4.44	---	---	---	2.70	4.37	11.1	14.3	14.2	14.4	11.1
IN.	9.30	4.95	---	---	---	3.12	4.87	12.82	15.93	16.42	16.65	12.41

15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2003 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 2003 to current year.

INSTRUMENTATION.--Digital water-temperature recorder with 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 September 26. No variation was found in the temperature cross sections. The variation found between mean stream temperature and sensor temperature was less than 0.2°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 11.0°C, July 9, 23-24, 2004; minimum, 0.0°C, many days during most winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 10.5°C, several days in June, July, and August; minimum, 0.0°C, many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
SEP								
26...	1530	144	20.0	23.73	5750	10	7.7	12.2
26...	1531	144	45.0	23.73	5750	10	7.7	12.2
26...	1532	144	70.0	23.73	5750	10	7.7	12.2
26...	1533	144	95.0	23.73	5750	10	7.7	12.2
26...	1534	144	120	23.73	5750	10	7.7	12.2

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.5	6.0	6.5	4.0	3.0	3.5	3.5	3.5	3.5	0.0	0.0	0.0
2	7.5	6.0	6.5	3.5	3.0	3.5	4.0	3.0	3.5	0.0	0.0	0.0
3	7.5	5.5	6.5	3.5	3.5	3.5	3.5	3.0	3.0	0.0	0.0	0.0
4	7.0	6.5	6.5	3.5	2.5	3.0	3.0	2.5	3.0	0.0	0.0	0.0
5	6.5	6.0	6.5	4.0	2.5	3.0	2.5	0.5	1.5	0.5	0.0	0.0
6	6.0	5.5	6.0	3.5	2.0	3.0	0.5	0.0	0.5	0.5	0.0	0.0
7	6.5	6.0	6.0	2.5	2.0	2.0	0.5	0.0	0.0	0.5	0.0	0.0
8	6.5	6.0	6.5	3.0	2.5	2.5	1.0	0.5	0.5	0.5	0.0	0.0
9	6.5	6.0	6.5	2.5	2.0	2.5	1.0	0.5	1.0	0.0	0.0	0.0
10	6.5	6.0	6.5	2.5	1.5	2.0	1.5	1.0	1.0	0.5	0.0	0.0
11	6.5	5.5	6.0	2.0	1.5	1.5	2.0	1.0	1.5	0.5	0.0	0.0
12	6.0	5.5	5.5	2.0	1.5	1.5	2.0	1.5	2.0	0.0	0.0	0.0
13	6.5	6.0	6.5	2.5	2.0	2.0	2.0	1.5	1.5	0.0	0.0	0.0
14	6.5	6.0	6.0	3.0	2.0	2.5	2.5	2.0	2.0	0.0	0.0	0.0
15	7.0	5.5	6.0	3.0	3.0	3.0	2.5	2.0	2.5	0.0	0.0	0.0
16	5.5	4.5	5.0	3.5	3.0	3.0	2.5	1.5	2.0	0.0	0.0	0.0
17	5.0	4.0	4.5	3.5	2.5	3.0	2.5	1.5	2.0	0.0	0.0	0.0
18	4.0	3.5	3.5	2.5	2.0	2.0	2.5	2.0	2.5	0.0	0.0	0.0
19	3.5	2.0	3.0	2.5	1.5	2.0	2.5	2.0	2.0	0.5	0.0	0.5
20	4.5	3.0	3.5	3.0	2.5	3.0	2.5	2.0	2.5	0.5	0.5	0.5
21	3.5	3.0	3.0	3.0	2.0	2.5	2.5	2.0	2.5	1.0	0.5	0.5
22	4.0	2.5	3.5	3.0	2.5	3.0	2.5	2.5	2.5	1.0	0.5	0.5
23	4.0	3.0	3.5	2.5	1.5	2.5	3.0	2.5	2.5	0.5	0.5	0.5
24	3.5	3.0	3.0	2.5	1.5	2.0	3.0	2.5	2.5	0.5	0.0	0.5
25	4.0	3.0	3.5	3.0	2.5	2.5	2.5	1.5	2.0	1.0	0.5	0.5
26	3.5	2.5	3.0	3.0	2.5	3.0	1.5	0.5	0.5	1.0	1.0	1.0
27	3.0	2.0	2.5	3.0	3.0	3.0	1.0	0.5	1.0	1.5	1.0	1.0
28	4.0	3.0	3.5	3.5	3.0	3.5	0.5	0.0	0.5	1.5	1.5	1.5
29	3.5	3.0	3.5	3.5	3.0	3.5	0.5	0.0	0.5	2.0	1.5	1.5
30	4.0	3.5	4.0	3.5	3.0	3.5	0.0	0.0	0.0	2.0	0.5	1.5
31	4.0	3.5	4.0	---	---	---	0.0	0.0	0.0	1.5	0.5	1.0
MONTH	7.5	2.0	4.9	4.0	1.5	2.7	4.0	0.0	1.7	2.0	0.0	0.4

15015595 UNUK RIVER BELOW BLUE RIVER NEAR WRANGELL—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	0.0	1.0	3.0	2.0	2.5	4.0	2.0	3.0	7.0	4.0	5.5
2	2.0	1.0	1.5	3.0	2.5	2.5	3.0	1.5	2.5	6.5	4.5	5.5
3	2.0	1.5	2.0	2.5	2.0	2.0	5.5	2.5	3.5	7.0	4.5	6.0
4	2.0	1.0	1.5	2.5	2.0	2.0	4.5	2.5	3.5	7.5	4.0	6.0
5	1.5	0.0	0.5	3.0	2.0	2.5	4.5	3.0	3.5	7.0	5.0	6.0
6	0.0	0.0	0.0	3.0	2.0	2.5	6.5	3.5	4.5	8.5	4.0	6.0
7	0.5	0.0	0.5	3.0	2.0	2.5	6.5	4.0	5.0	8.0	4.0	6.0
8	0.5	0.0	0.5	3.0	1.5	2.5	6.5	3.5	4.5	8.5	4.0	6.0
9	1.0	0.0	0.5	3.0	1.5	2.5	5.0	4.0	4.5	8.5	4.0	6.5
10	0.5	0.0	0.5	2.5	1.5	2.0	4.5	3.5	4.0	8.5	4.0	6.5
11	1.0	0.0	0.5	2.5	1.5	2.0	6.0	3.5	4.5	7.0	4.5	6.0
12	1.5	0.5	1.0	3.5	2.0	3.0	6.0	3.5	4.5	6.5	4.5	6.0
13	2.0	1.0	1.0	4.0	2.0	3.0	5.0	3.0	4.0	7.0	5.0	6.0
14	1.5	0.5	1.0	4.0	2.0	3.0	5.5	4.0	4.5	6.5	4.5	5.5
15	1.0	0.0	0.5	3.5	2.5	3.0	4.5	3.5	4.0	6.0	4.0	5.0
16	1.5	0.5	1.0	3.5	1.5	2.5	4.5	3.5	4.0	7.0	4.5	5.5
17	2.0	0.5	1.0	3.5	1.0	2.0	6.5	3.0	4.5	8.0	4.5	6.0
18	2.0	1.0	1.5	3.0	0.5	1.5	6.5	4.5	5.5	8.0	4.5	6.5
19	1.5	0.5	1.0	1.0	0.0	0.5	5.5	4.0	5.0	7.0	5.5	6.5
20	1.0	0.5	0.5	1.0	0.0	0.5	6.0	4.0	5.0	6.5	5.0	6.0
21	1.0	0.0	0.5	2.5	0.5	1.5	5.5	3.5	4.5	8.0	4.5	6.5
22	2.0	0.5	1.0	4.5	2.0	3.0	7.0	3.0	5.0	8.0	5.0	6.5
23	2.5	1.5	2.0	4.5	1.5	2.5	7.5	3.0	5.0	7.5	5.5	6.5
24	1.5	0.5	1.0	4.5	1.0	2.5	7.0	3.0	5.0	8.0	5.5	6.5
25	3.0	1.5	2.0	3.5	1.5	2.5	6.5	2.5	4.5	9.0	4.5	7.0
26	2.5	2.0	2.0	4.0	2.5	3.5	7.0	3.0	5.0	9.5	5.5	7.0
27	3.0	2.0	2.0	4.5	3.0	3.5	7.0	3.0	5.0	8.5	5.5	7.0
28	4.0	2.0	2.5	4.5	2.5	3.5	7.0	3.0	5.0	9.5	5.0	7.5
29	---	---	---	5.0	3.0	3.5	6.5	3.0	5.0	8.0	5.5	6.5
30	---	---	---	4.5	2.0	3.5	6.0	3.0	4.5	9.0	5.5	7.0
31	---	---	---	4.5	3.0	3.5	---	---	---	9.5	5.5	7.0
MONTH	4.0	0.0	1.1	5.0	0.0	2.5	7.5	1.5	4.4	9.5	4.0	6.3

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.5	5.5	7.0	8.0	7.0	7.5	8.5	6.5	7.5	7.5	6.5	7.0
2	9.0	5.5	7.5	8.0	6.5	7.0	9.5	6.5	8.0	8.0	6.5	7.0
3	8.5	5.5	7.0	7.5	6.0	7.0	8.5	6.5	7.0	8.5	6.5	7.5
4	8.0	5.5	7.0	7.5	6.0	7.0	8.5	6.5	7.5	8.5	7.0	7.5
5	8.5	5.0	7.0	7.0	6.5	6.5	7.5	6.5	7.0	8.5	6.5	7.5
6	8.0	6.0	6.5	8.0	6.0	7.0	9.0	6.5	7.5	8.0	7.0	7.0
7	8.0	6.5	7.0	8.0	6.0	7.0	10.0	6.5	8.0	7.5	7.0	7.0
8	9.5	6.0	7.5	8.5	6.0	7.0	10.5	6.5	8.5	8.0	6.5	7.0
9	8.5	5.5	7.5	9.0	6.0	7.5	10.5	7.0	8.5	8.5	6.5	7.5
10	8.0	6.0	7.0	8.5	6.5	7.5	10.5	6.5	8.5	7.5	6.0	7.0
11	9.5	5.5	7.5	8.5	6.5	7.5	10.5	6.5	8.5	9.0	6.5	7.5
12	8.5	6.0	7.0	8.5	6.5	7.5	10.5	7.0	8.5	8.5	6.5	7.5
13	8.0	6.0	7.0	8.5	7.0	7.5	10.5	7.0	8.5	9.0	7.0	7.5
14	9.0	6.0	7.0	7.5	6.5	7.0	10.5	7.0	8.5	8.0	6.5	7.0
15	9.0	6.0	7.5	9.0	6.5	7.5	9.0	7.0	7.5	8.5	6.5	7.5
16	10.0	5.5	8.0	10.5	6.5	8.0	8.5	6.5	7.5	8.0	6.5	7.5
17	10.5	6.0	8.5	9.0	7.0	8.0	10.0	6.5	8.0	7.5	6.5	7.0
18	10.5	6.5	8.0	8.5	6.5	7.5	8.5	7.0	7.5	7.0	6.5	6.5
19	9.0	7.0	7.5	9.5	6.5	8.0	8.0	7.0	7.5	7.0	6.5	7.0
20	9.0	6.5	8.0	8.5	6.5	7.5	7.5	6.5	7.0	8.0	6.5	7.0
21	9.0	6.0	7.5	9.5	6.5	8.0	7.5	6.5	7.0	8.0	6.5	7.5
22	8.5	6.0	7.5	10.5	6.5	8.0	7.5	6.5	7.0	8.0	6.5	7.5
23	8.5	6.5	7.0	9.0	7.0	8.0	9.0	6.5	8.0	8.0	7.0	7.5
24	8.5	6.5	7.5	9.5	6.5	8.0	9.5	6.5	8.0	8.0	7.0	7.5
25	10.5	6.5	8.5	9.0	6.5	8.0	8.5	7.0	8.0	7.5	6.5	7.0
26	9.0	7.0	8.0	9.0	7.0	8.0	8.5	7.0	8.0	8.0	6.5	7.0
27	9.0	7.5	8.0	8.5	7.5	8.0	8.5	6.5	7.5	7.0	5.5	6.0
28	8.5	7.0	7.5	9.0	6.5	8.0	9.0	6.5	7.5	6.5	6.0	6.5
29	9.0	6.5	7.5	8.5	6.5	7.5	7.5	6.5	7.0	7.0	6.0	6.5
30	8.5	6.5	7.5	9.0	6.0	7.5	7.5	6.5	7.0	7.0	6.5	6.5
31	---	---	---	8.5	6.5	7.5	7.5	6.5	7.0	---	---	---
MONTH	10.5	5.0	7.5	10.5	6.0	7.5	10.5	6.5	7.7	9.0	5.5	7.1

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.

WATER-DISCHARGE RECORDS

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.--No estimated daily discharges. Records fair, except for discharges below 10 ft^3/s, which are poor. 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	137	13	20	17	145	0.00	0.00	93	225	143	77	220
2	103	19	78	11	141	0.00	0.00	82	217	147	63	213
3	77	39	192	6.7	109	0.00	0.00	76	201	164	54	190
4	64	129	171	3.7	77	0.00	0.00	77	184	264	68	159
5	213	118	136	1.8	50	0.00	0.00	78	169	331	78	129
6	388	93	103	0.64	27	0.00	0.00	83	161	359	91	121
7	518	71	73	0.00	14	0.00	0.00	92	174	379	86	196
8	446	53	51	0.00	8.1	0.00	0.00	104	190	340	72	252
9	364	36	37	0.00	4.9	0.00	0.00	117	205	284	59	219
10	337	23	25	0.00	3.4	1.1	0.00	136	211	282	48	178
11	311	15	16	0.00	2.3	7.8	0.00	165	220	248	38	142
12	269	10	11	0.00	1.4	12	0.00	188	214	202	30	112
13	390	13	7.2	0.00	0.57	12	0.00	218	205	168	24	102
14	339	42	6.0	0.00	0.00	11	0.00	291	209	186	20	96
15	271	65	5.6	0.00	0.00	9.2	0.00	371	209	265	16	79
16	212	67	36	0.00	0.00	7.2	0.00	360	202	240	12	61
17	161	56	88	0.00	0.00	5.0	0.00	332	198	202	8.4	49
18	120	41	179	0.00	0.00	3.2	0.00	299	207	179	6.9	147
19	85	29	415	0.00	0.00	1.6	0.00	285	221	152	52	220
20	59	35	366	0.00	0.00	0.66	0.00	291	217	126	104	235
21	40	157	291	0.00	0.00	0.20	0.00	288	202	112	173	203
22	28	156	226	8.1	0.00	0.00	0.00	274	176	98	235	165
23	19	126	192	39	0.00	0.00	0.00	250	153	80	258	132
24	14	103	204	78	0.00	0.00	0.00	239	148	69	207	119
25	10	85	192	73	0.00	0.00	2.1	226	138	58	163	131
26	7.0	68	152	83	0.00	0.00	18	218	128	48	172	113
27	4.5	53	116	116	0.00	0.00	62	228	122	63	159	90
28	3.4	40	90	136	0.00	0.00	102	230	119	88	139	213
29	11	31	66	133	---	0.00	112	231	136	83	113	345
30	14	23	45	135	---	0.00	106	226	151	70	119	361
31	12	---	28	163	---	0.00	---	224	---	77	190	---
TOTAL	5026.9	1809	3617.8	1004.94	583.67	70.96	402.10	6372	5512	5507	2935.3	4992
MEAN	162	60.3	117	32.4	20.8	2.29	13.4	206	184	178	94.7	166
MAX	518	157	415	163	145	12	112	371	225	379	258	361
MIN	3.4	10	5.6	0.00	0.00	0.00	0.00	76	119	48	6.9	49
AC-FT	9970	3590	7180	1990	1160	141	798	12640	10930	10920	5820	9900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)#

MEAN	156	51.7	20.8	10.0	1.80	0.18	3.89	94.2	266	178	105	186
MAX	264	108	117	61.4	20.8	2.29	24.8	251	367	305	216	298
(WY)	2000	1993	2005	2003	2005	2005	1993	2004	1999	1999	2000	2001
MIN	66.1	5.10	0.00	0.00	0.00	0.00	0.00	0.00	176	55.2	19.2	41.5
(WY)	2003	1997	1995	1993	1993	1993	1994	2002	1994	1998	2003	1993

See Period of Record; partial year was used in monthly statistics and break in record. Record for 1980 and 1981 water years, prior to diversion of 1984, not included.

15019990 TYEE LAKE OUTLET NEAR WRANGELL—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005#	
ANNUAL TOTAL	39391.39		37833.67			
ANNUAL MEAN	108		104		89.1	
HIGHEST ANNUAL MEAN					113	2001
LOWEST ANNUAL MEAN					56.5	1995
HIGHEST DAILY MEAN	669	Sep 24	518	Oct 7	789	Oct 26 2003
LOWEST DAILY MEAN	a0.00	Jan 1	b0.00	Jan 7	c0.00	Dec 30 1992
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Jan 7	0.00	Dec 30 1992
MAXIMUM PEAK FLOW			540	Oct 7	d975	Oct 26 1993
MAXIMUM PEAK STAGE			24.10	Oct 7	28.62	Oct 26 1993
INSTANTANEOUS LOW FLOW			f		f0.00	Dec 30 1992
ANNUAL RUNOFF (AC-FT)	78130		75040		64550	
10 PERCENT EXCEEDS	339		243		278	
50 PERCENT EXCEEDS	49		77		23	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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	g1.4	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	

\# See Period of Record; partial year was used in monthly statistics and break in record. Record for 1980 and 1981 water years, prior to diversion of 1984, not included.
a Jan. 1-14 and Feb. 5 to Apr. 23.
b Jan. 7-21, Feb. 14 to Mar. 9, and Mar. 22 to Apr. 24
c No flow many days during winter months most years.
d From rating extended above 400 cfs.
f Not determined, see lowest daily mean
g Apr. 2-3 1980.

15019990 TYEE LAKE OUTLET NEAR WRANGELL—Continued

LAKE-STAGE RECORDS

PERIOD OF RECORD.--June of 1992 to September 2002 (fragmentary) during many winter months when lake level was below the point of zero flow at the outlet. 2003 to current year, the record is complete.

GAGE.--Water-stage recorder. Datum of gage is mean low low water (GPS survey of August 21, 2003 by USGS using NAD83) lake outlet at a datum of 1,368.80 ft above mean low low water at the point of zero flow.

REMARKS.--Lake outlet consists of large boulders and log jams with uncontrolled spillway at elevation 1368.80 ft. Water for power generation is diverted from Tyee lake and discharged into Bradfield Canal. Diversion to power plant began in February 1984.

EXTREMES FOR PERIOD OF RECORD.--Maximum elevation, 1983.02 ft, October 26, 1993: minimum observed unknown until 2003 WY.

EXTREMES FOR CURRENT YEAR.--Maximum elevation, 1378.25 ft, October 7, 2004; minimum 1364.61 ft, April 18,2005.

ELEVATION OF RESERVOIR WATER SURFACE ABOVE DATUM, FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1373.15	1370.37	1370.69	1370.59	1373.29	1365.12	1366.44	1372.45	1374.53	1373.25	1372.05	1374.45
2	1372.55	1370.68	1371.97	1370.26	1373.22	1365.20	1366.25	1372.25	1374.40	1373.32	1371.77	1374.35
3	1372.06	1371.15	1374.02	1369.95	1372.65	1365.50	1366.07	1372.14	1374.16	1373.58	1371.58	1373.99
4	1371.79	1373.02	1373.70	1369.63	1372.06	1365.96	1365.92	1372.16	1373.91	1375.07	1371.87	1373.51
5	1374.30	1372.82	1373.13	1369.33	1371.48	1366.18	1365.75	1372.20	1373.67	1375.97	1372.08	1373.01
6	1376.69	1372.38	1372.55	1369.06	1370.92	1366.20	1365.61	1372.31	1373.55	1376.34	1372.33	1372.87
7	1378.25	1371.93	1371.98	1368.77	1370.45	1366.28	1365.49	1372.50	1373.75	1376.59	1372.24	1374.07
8	1377.41	1371.55	1371.52	1368.49	1370.07	1366.65	1365.39	1372.73	1374.00	1376.10	1371.96	1374.90
9	1376.40	1371.16	1371.17	1368.21	1369.78	1367.31	1365.35	1372.97	1374.22	1375.35	1371.69	1374.44
10	1376.05	1370.80	1370.86	1367.94	1369.58	1368.16	1365.34	1373.31	1374.32	1375.32	1371.44	1373.81
11	1375.71	1370.48	1370.55	1367.66	1369.42	1370.02	1365.33	1373.79	1374.44	1374.86	1371.21	1373.24
12	1375.14	1370.21	1370.26	1367.35	1369.26	1370.34	1365.25	1374.16	1374.36	1374.18	1371.00	1372.71
13	1376.73	1370.35	1369.99	1367.01	1369.03	1370.36	1365.13	1374.57	1374.23	1373.66	1370.84	1372.53
14	1376.08	1371.29	1369.89	1366.67	1368.75	1370.27	1365.00	1375.49	1374.29	1373.93	1370.71	1372.43
15	1375.17	1371.81	1369.85	1366.36	1368.45	1370.15	1364.87	1376.48	1374.29	1375.09	1370.55	1372.09
16	1374.32	1371.86	1371.01	1366.09	1368.19	1369.99	1364.78	1376.34	1374.18	1374.73	1370.33	1371.72
17	1373.55	1371.62	1372.27	1366.13	1367.94	1369.78	1364.70	1375.98	1374.12	1374.19	1370.09	1371.47
18	1372.86	1371.29	1373.77	1366.45	1367.68	1369.55	1364.61	1375.55	1374.26	1373.82	1369.97	1373.30
19	1372.22	1370.97	1377.03	1367.32	1367.43	1369.30	1364.76	1375.36	1374.46	1373.40	1371.41	1374.45
20	1371.69	1371.10	1376.42	1367.75	1367.19	1369.07	1365.14	1375.45	1374.41	1372.96	1372.57	1374.67
21	1371.26	1373.48	1375.44	1367.89	1366.93	1368.82	1365.64	1375.41	1374.18	1372.72	1373.73	1374.20
22	1370.96	1373.47	1374.53	1369.31	1366.66	1368.59	1366.34	1375.22	1373.78	1372.46	1374.66	1373.60
23	1370.65	1372.96	1374.03	1371.22	1366.40	1368.36	1366.98	1374.87	1373.41	1372.11	1374.99	1373.07
24	1370.42	1372.56	1374.21	1372.08	1366.14	1368.09	1367.95	1374.72	1373.33	1371.90	1374.25	1372.85
25	1370.23	1372.22	1374.02	1371.98	1365.89	1367.81	1369.29	1374.53	1373.16	1371.66	1373.57	1373.05
26	1369.97	1371.87	1373.40	1372.16	1365.63	1367.62	1370.56	1374.41	1373.00	1371.44	1373.71	1372.73
27	1369.73	1371.55	1372.78	1372.79	1365.40	1367.50	1371.78	1374.57	1372.89	1371.76	1373.52	1372.31
28	1369.59	1371.25	1372.31	1373.13	1365.22	1367.30	1372.57	1374.60	1372.85	1372.27	1373.18	1374.30
29	1370.26	1371.02	1371.83	1373.08	---	1367.04	1372.78	1374.61	1373.14	1372.17	1372.73	1376.15
30	1370.46	1370.81	1371.37	1373.12	---	1366.78	1372.68	1374.53	1373.37	1371.92	1372.84	1376.36
31	1370.36	---	1370.95	1373.58	---	1366.62	---	1374.50	---	1372.06	1373.99	---
MEAN	1373.10	1371.60	1372.50	1369.40	1368.75	1367.93	1366.79	1374.20	1373.89	1373.68	1372.22	1373.55
MAX	1378.25	1373.48	1377.03	1373.58	1373.29	1370.36	1372.78	1376.48	1374.53	1376.59	1374.99	1376.36
MIN	1369.59	1370.21	1369.85	1366.09	1365.22	1365.12	1364.61	1372.14	1372.85	1371.44	1369.97	1371.47

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 fair except for estimated daily discharges during periods of ice effect. GOES satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	48900	28700	18600	e12500	e9100	e9700	e11400	59700	152000	129000	90600	88900
2	45400	32800	31700	e11500	e8950	e10000	e11500	54700	149000	133000	86500	74100
3	44400	34600	58900	e10500	e8800	e10300	e11600	53300	149000	133000	87700	67600
4	43500	57300	42100	e10000	e8650	e10700	e12100	54500	146000	140000	97200	63600
5	68700	42900	28800	e9500	e8500	e11100	e12200	56400	142000	149000	108000	59400
6	94800	32300	e20500	e9000	e8500	e11500	e12300	58500	136000	147000	108000	63600
7	101000	26100	e17000	e8600	e8550	e11800	e12500	62700	135000	e140000	102000	92200
8	77400	22800	e14000	e8300	e8600	e12300	e12800	68100	145000	e132000	98300	111000
9	64100	20400	e13000	e7900	e8650	e12500	e13100	74200	152000	e129000	101000	96800
10	62500	e17500	e13000	e7500	e8700	e12700	e13700	82200	150000	e125000	109000	84900
11	61000	e16000	e15000	e7500	e8750	e12900	e14000	91700	144000	e124000	114000	74400
12	54300	e16000	e16000	e7700	e8600	e13000	e14600	99900	141000	121000	123000	70900
13	116000	e16400	e15000	e7900	e8500	e12900	e14200	106000	134000	117000	131000	74800
14	126000	e18000	e15000	e8100	e8400	e12700	e13600	115000	131000	116000	131000	81300
15	93300	e20500	e17000	e8300	e8300	e12500	13700	134000	136000	123000	128000	69800
16	74900	e21300	e24000	e8400	e8200	e12300	13600	137000	132000	121000	116000	62500
17	62500	20300	e34000	e8500	e8100	e12100	13700	134000	132000	121000	103000	57900
18	52900	18400	e41000	e8600	e8000	e11900	14100	131000	139000	132000	105000	80900
19	44600	16700	77800	e8700	e7900	e11700	17500	127000	149000	123000	135000	99400
20	37600	20100	54700	e8820	e7800	e11500	21100	128000	150000	110000	160000	78000
21	33000	53200	36900	e8900	e7900	e11400	22800	125000	147000	105000	138000	60000
22	30700	41500	28800	e8950	e8050	e11300	25600	120000	137000	105000	113000	50900
23	29000	29400	28000	e9000	e8200	e11200	28200	116000	125000	110000	99700	45500
24	27800	25900	38200	e9020	e8400	e10900	33200	118000	112000	110000	86800	48800
25	26800	24100	35200	e9050	e8600	e10900	41400	122000	107000	104000	86000	64200
26	25100	22600	e23200	e9080	e8800	e11000	50700	124000	113000	98800	97500	59000
27	24800	20700	e21000	e9120	e9100	e11100	61700	131000	121000	104000	97900	48800
28	25600	19300	e18000	e9150	e9400	e11200	72000	140000	129000	121000	85000	69300
29	33700	18700	e16000	e9170	---	e11200	74800	145000	132000	118000	80800	93900
30	35200	18500	e14500	e9200	---	e11300	68000	146000	133000	104000	83900	77100
31	30300	---	e13500	e9210	---	e11400	---	151000	---	94400	94700	---
TOTAL	1695800	773000	840400	277670	238000	359000	751700	3265900	4100000	3739200	3297600	2169500
MEAN	54700	25770	27110	8957	8500	11580	25060	105400	136700	120600	106400	72320
MAX	126000	57300	77800	12500	9400	13000	74800	151000	152000	149000	160000	111000
MIN	24800	16000	13000	7500	7800	9700	11400	53300	107000	94400	80800	45500
MED	45400	21000	21000	8950	8520	11400	14100	118000	137000	121000	102000	70300
AC-FT	3364000	1533000	1667000	550800	472100	712100	1491000	6478000	8132000	7417000	6541000	4303000
CFSM	2.75	1.29	1.36	0.45	0.43	0.58	1.26	5.29	6.86	6.06	5.34	3.63
IN.	3.17	1.44	1.57	0.52	0.44	0.67	1.40	6.10	7.66	6.98	6.16	4.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005, BY WATER YEAR (WY)#

MEAN	57240	24520	14420	11460	9149	10020	17010	68270	135200	134100	106900	79870
MAX	113300	58280	27110	39450	19080	42340	31960	119100	199900	163800	134200	128600
(WY)	1987	1979	2005	1981	1977	1992	1992	1993	1992	1985	1977	1981
MIN	30590	10010	5593	5958	5111	4719	7292	32260	103400	109100	76770	50760
(WY)	1986	1986	1997	1978	1999	1978	2002	1982	1978	1983	1995	1986

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1976 - 2005#	
ANNUAL TOTAL	21293400		21507770			
ANNUAL MEAN	58180		58930		55870	
HIGHEST ANNUAL MEAN					72870	1981
LOWEST ANNUAL MEAN					42100	1978
HIGHEST DAILY MEAN	199000	Jun 25	160000	Aug 20	324000	Sep 23 1994
LOWEST DAILY MEAN	a5700	Feb 4	b7500	Jan 10	4000	Feb 12 1988
ANNUAL SEVEN-DAY MINIMUM	5800	Feb 2	7840	Jan 8	4090	Mar 8 1999
MAXIMUM PEAK FLOW			165000	Aug 20	351000	Sep 23 1994
MAXIMUM PEAK STAGE			22.21	Aug 20	30.60	Sep 23 1994
ANNUAL RUNOFF (AC-FT)	42240000		42660000		40470000	
ANNUAL RUNOFF (CFSM)	2.92		2.96		2.80	
ANNUAL RUNOFF (INCHES)	39.76		40.17		38.10	
10 PERCENT EXCEEDS	138000		132000		136000	
50 PERCENT EXCEEDS	35800		42900		32000	
90 PERCENT EXCEEDS	7000		8800		7300	

\# See Period of Record; partial year was used in monthly statistics
a Feb. 4-6
b Jan. 10 and 11
e Estimated

15041200 TAKU RIVER NEAR JUNEAU
(International gaging station)

LOCATION.--Lat 58°32'19", long 133°42'00", in NE$^1/_4$ NW$^1/_4$ 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; WDR AK-00-1 1989-90 (M), 1992-95 (M).

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)
May 16	2030	51100	38.98	Jun 30	2145	81700*	42.34*
May 26	0630	53000	39.19	Aug 14	1515	67100	41.03

DISCHARGE, in CFS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	16500	6900	5060	e2600	e2100	e2100	2660	19600	39400	48000	21000	19500
2	17500	7060	7090	e2400	e2000	e2200	2670	18200	37000	35400	20000	16300
3	16200	7740	9720	e2200	e2000	e2200	2680	17900	34900	34000	20000	14600
4	15500	9710	8230	e2100	e1900	e2250	2710	18800	34100	32400	22000	13900
5	18100	8430	e6600	e2200	e1900	e2300	2750	19200	34600	31000	26000	13600
6	18100	7300	e5800	e2200	e1800	e2300	2750	19400	33600	30300	25600	16000
7	16900	6230	e5300	e2100	e1800	e2350	2860	20900	34900	29800	23800	21300
8	15600	e5100	e4900	e2100	e1900	e2400	2930	23400	36600	27800	23300	23900
9	14800	e4600	e4500	e2100	e1900	e2450	3020	26200	37500	28400	23900	19900
10	14000	e4200	e4200	e2000	e1900	e2500	3160	30000	36600	30100	25000	16600
11	13000	e4100	e4100	e2000	e2000	e2550	3360	33600	34000	32600	27500	15600
12	11900	e4000	e4700	e2000	e2000	e2600	3530	38300	32500	32500	32100	15300
13	17200	e4100	e4500	e1900	e2000	e2600	3660	39700	32500	30800	43400	16100
14	20500	e4300	e4300	e1800	e2000	e2600	3870	42300	34400	29600	60500	16700
15	18300	5470	e4100	e1800	e2000	e2600	3920	47400	33000	28100	34900	15700
16	15700	5390	e4000	e1900	e2000	e2600	3970	50300	31900	28100	27800	15600
17	13500	5110	e4600	e1900	e2000	e2600	4100	49000	32900	31000	25100	18500
18	11800	4700	e6000	e2000	e2000	e2580	4370	43900	35500	35100	25800	25600
19	10200	4530	e8100	e2000	e1900	e2550	5280	41900	39000	31600	29500	21400
20	9160	5140	e6500	e2000	e1900	e2520	7020	41100	39400	27900	28400	16300
21	9030	7010	e5800	e2000	e2000	e2500	9170	40200	36900	25800	24400	13300
22	8550	6550	e5300	e2100	e2000	e2450	10800	38400	31500	24600	23000	11500
23	8240	5790	e7500	e2100	e2000	e2420	10400	38500	28100	25000	21100	11000
24	7790	5450	e11000	e2100	e2000	e2400	11900	40600	26200	25600	19500	13000
25	7480	5340	e10000	e2000	e2100	e2420	14400	44800	26600	25500	21000	16500
26	7210	5100	e8500	e2000	e2100	e2450	17500	48400	29000	24600	27000	14500
27	7300	4760	e6500	e2000	e2100	e2500	20800	41500	31000	26000	23400	11700
28	7590	4860	e5000	e2000	e2100	e2550	23000	42800	34600	29900	19400	13800
29	8430	5260	e3500	e2000	---	e2570	23700	41500	46800	28900	18500	16400
30	8270	5040	e3100	e2100	---	2580	22100	41400	72000	25600	19400	14400
31	7400	---	e2800	e2100	---	2620	---	41800	---	23000	22800	---
TOTAL	391750	169270	181300	63800	55400	76310	235040	1101000	1067000	919000	805100	488500
MEAN	12640	5642	5848	2058	1979	2462	7835	35520	35570	29650	25970	16280
MAX	20500	9710	11000	2600	2100	2620	23700	50300	72000	48000	60500	25600
MIN	7210	4000	2800	1800	1800	2100	2660	17900	26200	23000	18500	11000
AC-FT	777000	335700	359600	126500	109900	151400	466200	2184000	2116000	1823000	1597000	968900
CFSM	1.91	0.85	0.89	0.31	0.30	0.37	1.19	5.38	5.39	4.49	3.93	2.47
IN.	2.21	0.95	1.02	0.36	0.31	0.43	1.32	6.21	6.01	5.18	4.54	2.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)#

MEAN	11670	4790	3568	2269	1937	2479	4528	20900	34380	31850	26260	18830
MAX	17250	8633	6613	4223	3682	10500	7835	35520	49280	41080	33330	26550
(WY)	1992	1994	2000	2000	1992	1992	2005	2005	1992	1992	2002	1994
MIN	6265	2488	1256	1125	1041	1359	1870	9652	23170	25040	18610	11180
(WY)	1997	1997	1997	1988	1999	1991	2002	2001	1995	1996	1995	1992

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

15041200 TAKU RIVER NEAR JUNEAU—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005#	
ANNUAL TOTAL	5757300		5553470			
ANNUAL MEAN	15730		15210		13690	
HIGHEST ANNUAL MEAN					16820	1992
LOWEST ANNUAL MEAN					10800	1996
HIGHEST DAILY MEAN	113000	Jun 25	72000	Jun 30	113000	Jun 25 2004
LOWEST DAILY MEAN	a1500	Feb 3	b1800	Jan 14	710	Feb 12 1988
ANNUAL SEVEN-DAY MINIMUM	1540	Jan 31	1870	Feb 4	721	Feb 8 1988
MAXIMUM PEAK FLOW			c81700	Jun 30	c128000	Jun 25 2004
MAXIMUM PEAK STAGE			42.34	Jun 30	45.07	Jun 25 2004
ANNUAL RUNOFF (AC-FT)	11420000		11020000		9916000	
ANNUAL RUNOFF (CFSM)	2.38		2.31		2.07	
ANNUAL RUNOFF (INCHES)	32.45		31.30		28.18	
10 PERCENT EXCEEDS	37800		35000		33400	
50 PERCENT EXCEEDS	8350		10000		7380	
90 PERCENT EXCEEDS	2000		2000		1700	

\# See Period of Record; partial year was used in monthly statistics
a Feb. 3-6
b Jan. 14 and 15; Feb. 6 and 7
c Result of Tulsequah River glacier dam breakout

15041200 TAKU RIVER NEAR JUNEAU—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1998 to current year (discontinued).

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

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

REMARKS.- Record from June 15 to September 30 missing due to damaged temperature probe. Records represent water temperature at the sensor within 0.5°C. Temperature was compared with the stream average by cross section on March 24. No variation was found within the cross section. The variation found between mean stream temperature and sensor temperature was less than 0.5°C. The outburst peak of the lake dammed by Tulsequah Glacier occurred on June 30, 2005.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 12.5°C, July 14, 1999, July 20 and 21, 2001, July 9-10,12-13, and 18, 2003, June 18 and July 16, 2004; minimum, 0.0°C, many days during most winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 10.0°C, June 7-9,13, 2005; minimum, 0.0°C, many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
MAR						
24...	1252	80.0	10.0	2390	1.0	5.0
24...	1253	80.0	20.0	2390	1.0	5.0
24...	1254	80.0	30.0	2390	1.0	5.0
24...	1255	80.0	40.0	2390	1.0	5.0
24...	1256	80.0	50.0	2390	1.0	5.0
24...	1257	80.0	60.0	2390	1.0	5.0

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.0	6.5	6.5	2.0	1.5	1.5	2.5	2.0	2.0	0.0	0.0	0.0
2	7.0	6.5	7.0	2.0	1.5	1.5	2.5	2.0	2.5	0.0	0.0	0.0
3	7.0	6.0	6.5	2.5	2.0	2.5	2.0	1.5	2.0	0.0	0.0	0.0
4	7.0	6.0	6.5	2.5	2.0	2.0	1.5	0.0	1.0	0.0	0.0	0.0
5	6.0	5.5	6.0	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
6	6.0	5.0	5.5	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
7	5.5	5.0	5.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
8	5.5	5.0	5.0	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
9	6.0	5.0	5.5	0.5	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
10	6.0	5.0	5.5	0.5	0.0	0.0	0.5	0.0	0.5	0.0	0.0	0.0
11	5.5	4.5	5.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
12	4.5	3.5	4.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
13	5.5	3.5	4.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
14	5.5	5.0	5.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
15	5.5	5.0	5.0	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
16	5.0	3.5	4.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
17	4.0	3.5	4.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
18	3.5	1.5	2.5	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
19	1.5	0.5	0.5	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0
20	1.0	0.5	1.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
21	1.0	0.5	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
22	1.5	0.5	1.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
23	1.5	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
24	1.0	0.5	0.5	1.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
25	1.5	0.5	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
26	1.5	1.0	1.5	1.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
27	2.5	1.5	2.0	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
28	3.0	2.0	2.5	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
29	3.0	2.5	3.0	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
30	3.0	2.5	2.5	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
31	2.5	2.0	2.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	7.0	0.5	3.7	2.5	0.0	0.9	2.5	0.0	0.3	0.0	0.0	0.0

15041200 TAKU RIVER NEAR JUNEAU—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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	2.5	1.0	1.5	6.0	3.5	4.5
2	0.0	0.0	0.0	0.0	0.0	0.0	2.5	1.5	2.0	6.0	3.5	4.5
3	0.0	0.0	0.0	0.0	0.0	0.0	3.5	1.5	2.0	6.5	4.0	5.5
4	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.0	2.5	6.5	4.5	5.5
5	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.5	2.0	7.0	4.5	5.5
6	0.0	0.0	0.0	0.0	0.0	0.0	4.5	2.0	2.5	7.0	4.5	5.5
7	0.0	0.0	0.0	0.0	0.0	0.0	4.5	2.0	3.0	7.5	4.5	6.0
8	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.0	2.5	7.5	5.0	6.0
9	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.0	3.0	7.5	5.0	6.0
10	0.0	0.0	0.0	0.0	0.0	0.0	4.5	2.0	3.0	7.5	5.0	6.5
11	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.5	3.0	7.5	5.0	6.5
12	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.0	2.5	7.0	5.0	6.0
13	0.0	0.0	0.0	0.5	0.0	0.0	4.5	2.0	3.0	7.0	5.0	6.0
14	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.5	3.0	6.5	5.0	6.0
15	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.0	2.5	6.0	4.5	5.5
16	0.0	0.0	0.0	0.5	0.0	0.0	4.0	2.5	3.0	6.5	5.0	5.5
17	0.0	0.0	0.0	0.5	0.0	0.0	4.5	2.5	3.5	7.0	5.0	6.0
18	0.0	0.0	0.0	0.5	0.0	0.0	3.5	3.0	3.0	7.5	5.0	6.5
19	0.0	0.0	0.0	0.0	0.0	0.0	3.0	2.5	2.5	7.0	5.5	6.0
20	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.0	2.5	7.5	5.0	6.0
21	0.0	0.0	0.0	0.5	0.0	0.0	3.5	2.0	2.5	7.5	5.5	6.5
22	0.0	0.0	0.0	1.0	0.0	0.0	4.5	2.0	3.0	8.5	5.5	7.0
23	0.0	0.0	0.0	1.5	0.0	0.5	5.5	2.5	4.0	8.0	6.0	7.0
24	0.0	0.0	0.0	2.0	0.5	1.0	5.5	3.0	4.0	7.5	5.5	6.5
25	0.0	0.0	0.0	1.5	0.5	1.0	5.0	3.0	4.0	7.5	5.5	6.5
26	0.0	0.0	0.0	3.0	1.0	2.0	5.0	2.5	4.0	7.0	5.0	6.0
27	0.0	0.0	0.0	3.0	1.5	2.0	5.0	3.0	4.0	8.5	6.0	7.0
28	0.0	0.0	0.0	2.0	1.0	1.5	5.5	3.0	4.0	8.5	6.0	7.5
29	---	---	---	2.0	1.0	1.5	5.0	3.0	4.0	8.5	6.5	7.5
30	---	---	---	2.5	1.0	1.5	5.0	3.0	4.0	8.5	7.0	7.5
31	---	---	---	2.0	1.5	1.5	---	---	---	8.5	6.0	7.5
MONTH	0.0	0.0	0.0	3.0	0.0	0.4	5.5	1.0	3.0	8.5	3.5	6.2

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

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. GOES satellite telemetry at station. 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)
July 27	2200	923	4.36	Sept. 18	1845	1030	4.56
Aug. 25	1730	949	4.41	Sept. 19	0645	*1550	*5.48
Sept. 06	1815	917	4.35	Sept. 29	0800	1330	5.11

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	292	77	104	36	26	71	18	131	120	154	91	244
2	212	92	235	33	19	88	17	114	114	237	79	135
3	123	234	205	29	17	75	16	110	109	238	123	99
4	285	136	105	27	e15	76	16	107	175	178	417	83
5	306	85	71	25	e12	66	16	107	157	147	519	103
6	226	66	57	23	e10	51	17	116	141	135	207	546
7	258	49	48	22	e9.0	41	18	144	149	121	133	384
8	242	36	40	20	e13	57	17	158	161	107	111	185
9	195	28	39	19	16	81	19	183	163	110	104	115
10	207	22	36	18	18	158	22	208	145	e111	94	98
11	128	20	38	e17	18	126	22	217	133	97	83	87
12	223	19	44	e16	15	88	23	207	117	89	78	96
13	268	30	36	e16	e14	75	23	235	120	110	74	123
14	126	61	45	e15	e13	63	24	433	130	112	69	76
15	112	100	43	e14	11	53	23	349	112	126	60	63
16	88	93	209	e13	11	44	22	209	107	98	51	61
17	73	70	226	e12	11	39	23	181	151	384	46	286
18	56	57	380	e12	10	34	27	168	167	263	190	561
19	43	62	217	e11	e9.7	30	145	180	164	130	107	910
20	35	404	119	e10	e9.2	27	160	182	147	102	97	493
21	30	322	85	e10	e9.0	25	222	184	138	167	104	344
22	26	121	91	e10	11	23	163	167	107	109	194	200
23	22	84	532	e10	15	22	164	168	107	92	95	367
24	21	69	601	e10	13	20	228	172	106	92	87	431
25	19	59	199	e10	13	19	240	144	108	93	319	219
26	17	56	112	e11	15	19	267	169	115	172	203	149
27	26	50	87	e12	22	21	406	193	126	510	113	138
28	90	55	71	e12	42	20	417	150	186	330	87	418
29	206	59	54	12	---	18	289	144	197	187	134	884
30	90	53	44	23	---	17	177	180	130	132	235	576
31	69	---	40	30	---	20	---	146	---	112	285	---
TOTAL	4114	2669	4213	561	416.9	1567	3241	5556	4102	5045	4589	8474
MEAN	133	89.0	136	18.1	14.9	50.5	108	179	137	163	148	282
MAX	306	404	601	36	42	158	417	433	197	510	519	910
MIN	17	19	36	10	9.0	17	16	107	106	89	46	61
MED	112	62	85	16	13	41	23	169	131	126	104	192
AC-FT	8160	5290	8360	1110	827	3110	6430	11020	8140	10010	9100	16810

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1916 - 2005, BY WATER YEAR (WY)#

MEAN	158	81.9	39.5	23.2	15.2	13.3	27.0	128	223	223	187	187
MAX	349	206	202	170	81.4	137	108	220	326	364	374	302
(WY)	2000	1947	2000	1981	1977	1947	2005	1948	2002	1975	1961	1999
MIN	62.6	18.1	6.22	1.71	0.48	0.05	3.78	64.5	121	111	51.7	73.7
(WY)	1952	1976	1956	1974	1972	1974	1954	1920	2003	2003	2004	1978

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

15050000 GOLD CREEK AT JUNEAU—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1916 - 2005#	
ANNUAL TOTAL	40819		44547.9			
ANNUAL MEAN	112		122		109	
HIGHEST ANNUAL MEAN					155	2000
LOWEST ANNUAL MEAN					77.5	1951
HIGHEST DAILY MEAN	688	Sep 23	910	Sep 19	1830	Aug 12 1961
LOWEST DAILY MEAN	a10	Mar 22	b9.0	Feb 7	c0.00	Mar 4 1951
ANNUAL SEVEN-DAY MINIMUM	11	Mar 18	10	Feb 15	0.00	Mar 4 1951
MAXIMUM PEAK FLOW			1550	Sep 19	2950	Sep 25 1996
MAXIMUM PEAK STAGE			5.48	Sep 19	8.14	Sep 25 1996
INSTANTANEOUS LOW FLOW			9.0	Feb 7	0.00	Mar 4 1951
ANNUAL RUNOFF (AC-FT)	80960		88320		79160	
10 PERCENT EXCEEDS	250		250		264	
50 PERCENT EXCEEDS	78		93		68	
90 PERCENT EXCEEDS	17		16		5.0	

\# See Period of Record; partial years used in monthly statistics and break in record
a Mar. 22-24
b Feb. 7 and 21
c No flow at times during winter

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 poor. 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	58	e22	e27	e21	28	66	12	31	32	31	25	66
2	54	e22	e59	20	19	61	11	28	31	44	21	42
3	40	e54	e64	19	15	47	11	29	30	49	32	32
4	52	e43	e40	17	13	53	12	30	49	37	72	27
5	65	e28	e33	17	e12	42	12	29	39	29	93	26
6	55	e22	e28	16	e12	32	12	30	36	26	59	92
7	59	e17	e26	15	e11	27	11	36	37	23	38	92
8	67	e14	e24	14	e12	37	11	38	39	19	30	60
9	55	e12	e22	13	e19	47	12	42	39	20	26	40
10	52	e10	e21	e13	e20	87	14	48	36	20	23	33
11	42	e9.7	25	e11	e16	61	13	56	35	17	20	30
12	54	e9.1	35	e9.0	e14	44	13	56	31	15	19	29
13	66	e11	26	e8.0	13	39	13	62	32	17	18	36
14	43	e17	39	e7.8	12	33	13	98	34	18	17	28
15	39	e26	32	e7.7	11	28	12	72	31	21	15	25
16	33	e27	123	e7.5	11	24	12	50	28	16	14	23
17	28	e23	102	e7.6	12	21	12	47	34	47	14	59
18	23	e19	137	e7.8	11	18	14	45	37	45	28	117
19	20	e11	88	e8.5	10	16	80	49	35	27	32	219
20	19	e81	58	9.4	9.7	15	59	46	31	20	28	104
21	18	e91	42	10	9.4	14	77	47	33	41	27	101
22	17	e49	49	22	12	14	53	43	24	28	42	68
23	15	e30	180	18	32	13	44	43	24	21	29	85
24	16	e24	194	14	21	13	57	44	21	18	24	86
25	15	e22	77	13	19	12	58	37	20	17	67	69
26	13	e20	50	12	20	12	57	42	21	30	56	55
27	e20	e18	41	11	27	14	69	47	23	98	34	54
28	e30	e19	38	10	48	13	76	38	34	87	26	114
29	e49	e21	29	11	---	12	61	37	35	55	29	228
30	e32	e18	e25	29	---	12	39	49	24	36	52	144
31	e22	---	e22	32	---	14	---	38	---	31	64	---
TOTAL	1171	789.8	1756	431.3	469.1	941	950	1387	955	1003	1074	2184
MEAN	37.8	26.3	56.6	13.9	16.8	30.4	31.7	44.7	31.8	32.4	34.6	72.8
MAX	67	91	194	32	48	87	80	98	49	98	93	228
MIN	13	9.1	21	7.5	9.4	12	11	28	20	15	14	23
AC-FT	2320	1570	3480	855	930	1870	1880	2750	1890	1990	2130	4330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)

MEAN	59.6	30.2	28.9	19.3	21.2	17.1	23.9	47.4	52.5	42.6	36.8	61.8
MAX	131	76.9	69.5	33.5	45.0	39.0	38.6	71.3	82.9	69.0	76.1	108
(WY)	1999	1994	2000	1992	1992	1992	1994	1992	1991	1997	2002	1991
MIN	33.0	16.3	12.7	9.65	9.16	8.91	9.52	29.0	31.7	21.9	15.1	41.0
(WY)	2004	1991	1997	1997	1999	2003	2002	2003	2003	2003	2004	1997

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005	
ANNUAL TOTAL	12378.0		13111.2			
ANNUAL MEAN	33.8		35.9		36.8	
HIGHEST ANNUAL MEAN					48.6	1992
LOWEST ANNUAL MEAN					29.7	1995
HIGHEST DAILY MEAN	194	Dec 24	228	Sep 29	954	Oct 20 1998
LOWEST DAILY MEAN	9.0	Mar 24	7.5	Jan 16	5.6	Mar 13 2003
ANNUAL SEVEN-DAY MINIMUM	9.6	Jan 4	7.8	Jan 13	6.2	Mar 8 2003
MAXIMUM PEAK FLOW			321	Sep 19	1930	Sep 25 1996
MAXIMUM PEAK STAGE			3.01	Sep 19	a4.65	Sep 25 1996
INSTANTANEOUS LOW FLOW			b		b	
ANNUAL RUNOFF (AC-FT)	24550		26010		26690	
10 PERCENT EXCEEDS	58		66		70	
50 PERCENT EXCEEDS	26		28		27	
90 PERCENT EXCEEDS	12		12		10	

a From flood marks
b Undetermined, see lowest daily mean
e Estimated

15052000 LEMON CREEK NEAR JUNEAU

LOCATION.--Lat 58°23'30", long 134°25'15",in SE$^1/_4$ NW$^1/_4$ NW$^1/_4$ sec. 19, T. 40 S., R. 67 E. (Juneau B-2 quad), Hydrologic Unit 19010301, City and Borough of Juneau, in Tongass National Forest, on left bank 0.3 mi upstream from Canyon Creek, 4.5 mi upstream from the mouth at Gastineau Channel, and 6 mi north of Juneau.

DRAINAGE AREA.-- 12.1 mi^2.

PERIOD OF RECORD.--August 1951 to November 1953, July 1954 to September 1973, annual maximum 1999, May 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 650 ft above sea level, from topographic map. Prior to Oct.1967 same site and datum about 6.94 ft lower; Oct.1967 to Sept 1973 at same site at datum about 5.85 ft lower.

REMARKS.--Records fair, except for estimated daily discharges, which are poor. Large diurnal fluctuations caused by glacier melt at source. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharge 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)
Oct. 1	1515	1200	10.29	Aug. 30	1615	1260	10.36
Oct. 5	1215	1330	10.43	Sept. 7	1815	1730	10.82
July 27	2215	1500	10.61	Sept. 18	1815	*2240	*11.23
Aug. 5	1000	1540	10.64	Sept. 24	1800	1800	10.88
Aug. 25	1730	1790	10.87				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	904	33	59	e19	16	56	12	116	237	502	227	521
2	484	33	81	e18	13	43	12	98	217	822	253	289
3	277	74	59	17	12	32	12	96	219	621	536	206
4	679	40	33	17	11	34	13	101	292	494	1020	229
5	956	29	24	e16	e9.0	26	13	101	277	428	1190	311
6	360	25	22	e15	e9.0	22	16	117	271	392	610	970
7	244	20	17	15	e10	20	16	154	292	352	419	1280
8	247	19	16	15	e10	37	15	168	312	333	364	724
9	221	19	17	14	e11	41	16	200	320	300	429	335
10	221	17	16	13	e11	83	17	231	299	309	460	262
11	130	16	16	e12	e10	52	17	240	278	345	458	285
12	271	17	21	e12	e10	44	17	231	259	321	471	285
13	539	30	18	e12	10	38	17	282	274	481	491	517
14	270	57	29	e12	9.9	29	18	461	291	487	450	299
15	241	50	22	11	9.7	23	17	472	255	580	360	183
16	130	37	99	11	9.8	20	16	384	261	379	309	212
17	90	28	72	11	9.8	18	17	317	347	778	286	625
18	55	24	121	11	9.5	16	18	296	404	788	658	1400
19	43	26	79	11	9.3	e16	65	284	390	452	596	1040
20	38	102	49	11	9.2	e15	68	249	410	302	479	563
21	34	95	35	11	9.0	e14	129	256	375	368	426	403
22	30	51	57	23	9.2	e13	111	257	266	348	646	367
23	26	36	134	20	11	12	111	262	260	297	320	729
24	26	33	133	15	11	13	183	286	284	335	365	1160
25	24	28	58	14	12	12	223	246	303	391	1020	507
26	22	27	e35	13	11	13	240	301	327	452	656	229
27	33	29	e27	12	19	16	346	344	389	960	375	181
28	46	31	e23	12	39	14	403	285	603	851	340	549
29	76	31	e23	11	---	13	274	278	713	497	374	721
30	37	32	e22	19	---	12	161	315	450	315	885	478
31	29	---	e21	17	---	14	---	290	---	294	740	---
TOTAL	6783	1089	1438	440	330.4	811	2593	7718	9875	14574	16213	15860
MEAN	219	36.3	46.4	14.2	11.8	26.2	86.4	249	329	470	523	529
MAX	956	102	134	23	39	83	403	472	713	960	1190	1400
MIN	22	16	16	11	9.0	12	12	96	217	294	227	181
AC-FT	13450	2160	2850	873	655	1610	5140	15310	19590	28910	32160	31460
CFSM	17.8	2.95	3.77	1.15	0.96	2.13	7.03	20.2	26.8	38.2	42.5	43.0
IN.	20.51	3.29	4.35	1.33	1.00	2.45	7.84	23.34	29.87	44.08	49.03	47.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)#

MEAN	163	49.4	21.1	10.2	6.75	6.80	17.7	96.6	272	423	465	370
MAX	428	129	68.6	34.0	20.6	26.2	86.4	249	382	557	718	544
(WY)	2003	1970	2003	2003	2004	2005	2005	2005	1969	1961	1961	1957
MIN	50.8	16.4	4.71	1.50	1.00	1.50	4.50	42.6	158	310	324	205
(WY)	1957	1972	1962	1952	1952	1952	1955	1971	1952	1952	1954	1964

\# See Period of Record; partial years were used in monthly statistics and break in record
e Estimated

15052000 LEMON CREEK NEAR JUNEAU—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005#	
ANNUAL TOTAL	67019.6		77724.4			
ANNUAL MEAN	183		213		160	
HIGHEST ANNUAL MEAN					213	2005
LOWEST ANNUAL MEAN					122	1952
HIGHEST DAILY MEAN	1360	Jul 28	1400	Sep 18	2660	Aug 13 1961
LOWEST DAILY MEAN	a6.0	Mar 18	b9.0	Feb 5	0.70	Feb 13 1966
ANNUAL SEVEN-DAY MINIMUM	6.1	Mar 17	9.4	Feb 16	0.73	Feb 13 1966
MAXIMUM PEAK FLOW			2240	Sep 18	c5900	Oct 20 1998
MAXIMUM PEAK STAGE			11.23	Sep 18	d	
ANNUAL RUNOFF (AC-FT)	132900		154200		115600	
ANNUAL RUNOFF (CFSM)	14.9		17.3		13.0	
ANNUAL RUNOFF (INCHES)	202.69		235.07		176.24	
10 PERCENT EXCEEDS	485		519		442	
50 PERCENT EXCEEDS	63		98		45	
90 PERCENT EXCEEDS	9.9		12		4.5	

\# See Period of Record; partial years were used in monthly statistics and break in record
a Mar. 18-22
b Feb. 5,6, and 21
c From rating curve extended above 1,200 ft^3/s, from flood marks, at datum then in use
d Not determined

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. GOES satellite telemetry at station.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.0	9.5	20	7.7	e9.0	26	4.0	4.4	0.88	0.27	2.4	11
2	7.7	14	33	6.3	e6.0	19	3.9	4.2	0.70	0.87	2.1	8.2
3	5.0	30	31	5.8	e4.5	16	3.8	3.9	0.60	0.94	2.4	6.5
4	8.1	23	17	4.8	e3.5	19	3.8	3.8	1.9	1.6	4.1	5.6
5	14	11	12	4.5	e2.8	18	3.5	3.3	1.5	0.92	11	5.7
6	8.5	7.5	9.5	e3.5	e2.5	14	3.6	3.2	0.84	0.66	6.5	14
7	9.7	6.4	8.2	e3.0	e2.4	15	3.3	3.2	0.84	0.43	3.8	31
8	13	5.5	7.1	e2.5	e6.0	17	2.9	3.1	0.36	0.28	3.1	22
9	15	5.0	6.5	e2.0	e13	20	3.0	3.1	0.26	0.21	2.7	12
10	11	4.0	6.0	e1.8	e11	37	3.5	3.0	0.18	0.14	2.4	9.3
11	7.7	3.3	7.1	e1.1	e9.0	38	3.2	2.9	0.12	0.00	2.1	8.9
12	11	2.8	10	e0.95	e7.5	29	3.2	2.8	0.00	0.00	1.9	8.0
13	17	2.9	7.3	e0.80	e6.0	26	3.0	2.7	0.12	0.00	1.8	13
14	7.8	3.0	11	e0.68	e5.3	20	2.9	3.3	0.00	0.00	1.6	8.3
15	7.3	2.9	7.6	e0.60	e4.8	15	2.8	3.2	0.10	0.18	1.5	7.0
16	6.1	3.9	23	e0.90	e4.4	11	2.5	2.6	0.00	0.00	1.4	6.6
17	5.2	3.7	19	e1.5	4.1	9.1	2.5	2.3	0.00	1.3	1.2	12
18	4.4	3.0	29	e1.2	3.7	7.8	2.9	2.0	0.00	3.7	3.0	17
19	3.8	7.4	39	e0.95	3.2	6.9	12	1.9	0.00	1.4	6.0	36
20	3.4	28	26	e0.80	2.9	6.2	10	1.8	0.00	0.91	5.9	31
21	3.2	37	15	e0.90	2.7	5.6	14	1.6	0.84	3.6	4.4	35
22	3.4	16	20	e1.5	4.6	5.1	10	1.5	0.45	2.6	10	20
23	2.3	12	50	e4.0	13	4.7	8.0	1.4	0.23	1.5	5.1	29
24	3.3	15	49	e3.1	8.3	4.3	9.5	1.4	0.16	1.2	3.8	29
25	2.8	14	28	e2.5	7.4	4.0	10	1.3	0.00	1.1	11	21
26	1.9	19	16	e2.8	6.4	3.9	9.3	1.2	0.00	1.9	15	15
27	6.2	17	12	e3.5	7.7	4.3	8.9	1.2	0.00	9.8	6.5	14
28	8.8	15	13	e3.2	14	4.5	8.1	1.1	0.00	11	4.8	21
29	30	11	9.5	e3.0	---	5.0	6.7	1.1	0.64	4.8	5.2	32
30	13	11	e9.0	e4.5	---	3.8	5.2	1.3	0.29	3.2	17	32
31	8.1	---	e8.5	e6.4	---	4.9	---	1.1	---	2.7	15	---
TOTAL	257.7	343.8	559.3	86.78	175.7	420.1	170.0	74.9	11.01	57.21	164.7	521.1
MEAN	8.31	11.5	18.0	2.80	6.28	13.6	5.67	2.42	0.37	1.85	5.31	17.4
MAX	30	37	50	7.7	14	38	14	4.4	1.9	11	17	36
MIN	1.9	2.8	6.0	0.60	2.4	3.8	2.5	1.1	0.00	0.00	1.2	5.6
AC-FT	511	682	1110	172	349	833	337	149	22	113	327	1030
CFSM	3.20	4.41	6.94	1.08	2.41	5.21	2.18	0.93	0.14	0.71	2.04	6.68
IN.	3.69	4.92	8.00	1.24	2.51	6.01	2.43	1.07	0.16	0.82	2.36	7.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#

MEAN	15.1	8.42	11.0	6.28	4.05	4.45	5.09	6.18	3.75	4.05	6.05	13.4
MAX	23.2	11.5	20.8	11.3	9.60	13.6	12.1	13.7	10.2	8.49	15.0	18.7
(WY)	2003	2005	2000	1999	2004	2005	1999	1999	1999	2000	2002	1999
MIN	6.25	4.21	2.67	2.80	0.47	1.62	0.72	1.70	0.37	0.36	0.12	5.80
(WY)	2004	1999	1999	2005	1999	1998	2002	2003	2005	2004	2004	2004

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

15052475 JORDAN CREEK BELOW EGAN DRIVE NEAR AUKE BAY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	2488.95		2842.30			
ANNUAL MEAN	6.80		7.79		7.34	
HIGHEST ANNUAL MEAN					9.87	2000
LOWEST ANNUAL MEAN					5.29	2004
HIGHEST DAILY MEAN	50	Dec 23	50	Dec 23	129	Dec 28 1999
LOWEST DAILY MEAN	a0.00	Jul 2	b0.00	Jun 12	c0.00	Mar 3 1999
ANNUAL SEVEN-DAY MINIMUM	0.00	Jul 10	0.01	Jun 14	0.00	Mar 3 1999
MAXIMUM PEAK FLOW			64	Dec 23	149	Dec 28 1999
MAXIMUM PEAK STAGE			6.06	Dec 23	7.59	Dec 28 1999
INSTANTANEOUS LOW FLOW			d0.00	Jun 12	0.00	Mar 3 1999
ANNUAL RUNOFF (AC-FT)	4940		5640		5320	
ANNUAL RUNOFF (CFSM)	2.62		3.00		2.82	
ANNUAL RUNOFF (INCHES)	35.61		40.67		38.37	
10 PERCENT EXCEEDS	16		19		17	
50 PERCENT EXCEEDS	4.6		4.5		4.6	
90 PERCENT EXCEEDS	0.00		0.67		0.90	

\# See Period of Record; partial years used in monthly statistics
a July 2-4, 7, 8, 10-24, 26, Aug. 7-10, 13-26, 31, and Sept. 1
b June 12, 14, 16-20, 25-28, and July 11-14, 16
c Occurs on many days throughout period of record.
d June 11-20,24-28; July 11-17

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.--No estimated daily discharge. Records good. 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)
July 18	1630	5130	6.69	Sept. 01	0015	5170	6.71
July 29	0730	5480	6.88	Sept. 08	1015	*7260	*7.74
Aug. 05	2115	6690	7.48	Sept. 19	1745	5770	7.03
Aug. 26	0545	5430	6.85	Sept. 24	2130	5000	6.62

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3450	357	288	321	130	195	118	1130	1910	2950	2290	4240
2	3310	342	485	256	132	240	111	1100	1730	3780	2060	2560
3	2150	383	654	213	123	245	106	1220	1750	3680	2470	2050
4	2130	466	520	183	111	242	102	1350	1980	3360	3940	1860
5	3210	387	406	165	97	245	98	996	2040	3100	6180	1770
6	3570	326	340	152	86	228	98	869	1940	2960	5750	2900
7	2390	272	301	137	81	209	98	946	1980	2690	3750	4900
8	1860	226	266	126	84	210	97	1050	2130	2490	3480	6700
9	1850	195	229	116	90	247	97	1140	2230	2670	3760	4230
10	1880	166	192	110	92	353	100	1280	2140	2580	3960	3090
11	1450	145	172	101	100	500	102	1400	1950	2570	4030	2720
12	1000	130	176	91	94	468	101	1390	1920	2570	4120	2420
13	1740	125	162	86	86	438	104	1410	1970	2710	4240	2610
14	2450	139	180	83	77	384	108	1850	2130	2790	4110	2460
15	2410	180	174	80	71	335	111	2140	1950	3140	3640	1930
16	2070	233	242	80	69	301	115	2010	1880	3330	2870	1580
17	1820	248	421	90	67	282	122	1940	2240	3800	2770	2200
18	1040	236	603	92	64	277	134	1940	2810	4960	3460	3440
19	663	242	714	91	60	274	208	2030	3190	4030	4240	5340
20	496	423	579	85	56	235	397	1820	3070	3160	3650	4590
21	396	760	452	78	53	192	724	1680	2920	3030	2990	2880
22	343	556	408	80	54	166	846	1590	2320	2830	3540	1960
23	300	440	697	91	72	146	743	1670	2080	2730	3120	2560
24	274	409	991	93	84	131	782	1750	2090	2520	2440	4070
25	254	400	755	91	83	121	865	1640	2280	2550	3640	4810
26	231	397	584	92	82	115	1010	1820	2450	2750	5310	3280
27	238	337	499	95	90	117	1310	2200	2660	4180	4230	1940
28	289	290	472	93	121	124	1590	2040	3100	5310	2890	2210
29	472	262	463	91	---	120	1620	2010	3510	4720	2700	3530
30	478	249	470	96	---	113	1320	2120	3200	2890	3750	4020
31	412	---	400	113	---	116	---	2130	---	2510	4970	---
TOTAL	44626	9321	13295	3671	2409	7369	13337	49661	69550	99340	114350	94850
MEAN	1440	311	429	118	86.0	238	445	1602	2318	3205	3689	3162
MAX	3570	760	991	321	132	500	1620	2200	3510	5310	6180	6700
MIN	231	125	162	78	53	113	97	869	1730	2490	2060	1580
AC-FT	88520	18490	26370	7280	4780	14620	26450	98500	138000	197000	226800	188100
CFSM	16.9	3.65	5.04	1.39	1.01	2.79	5.22	18.8	27.2	37.7	43.3	37.2
IN.	19.51	4.07	5.81	1.60	1.05	3.22	5.83	21.71	30.40	43.42	49.99	41.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)#

MEAN	1376	347	173	119	93.5	95.1	149	691	1918	3041	3369	2677
MAX	2649	920	563	600	254	379	445	1602	2819	3835	4701	4100
(WY)	1987	1977	2003	1981	1977	1992	2005	2005	1969	1979	1990	1991
MIN	532	110	40.0	30.8	21.5	22.3	46.9	268	732	1939	2025	1380
(WY)	1969	1986	1984	1969	1969	1974	2002	1985	1985	1985	1985	1984

See Period of Record; partial years used in monthly statistics and break in record

15052500 MENDENHALL RIVER NEAR AUKE BAY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1965 - 2005#	
ANNUAL TOTAL	494510		521779			
ANNUAL MEAN	1351		1430		1182	
HIGHEST ANNUAL MEAN					1547	1990
LOWEST ANNUAL MEAN					758	1985
HIGHEST DAILY MEAN	8410	Jul 29	6700	Sep 8	13700	Sep 8 1981
LOWEST DAILY MEAN	63	Mar 24	53	Feb 21	19	Mar 1 1969
ANNUAL SEVEN-DAY MINIMUM	70	Mar 19	60	Feb 16	19	Mar 5 1974
MAXIMUM PEAK FLOW			7260	Sep 8	16000	Sep 11 1995
MAXIMUM PEAK STAGE			7.74	Sep 8	a11.18	Sep 11 1995
INSTANTANEOUS LOW FLOW			52	Sep 8	b19	Mar 1 1969
ANNUAL RUNOFF (AC-FT)	980900		1035000		856600	
ANNUAL RUNOFF (CFSM)	15.9		16.8		13.9	
ANNUAL RUNOFF (INCHES)	216.17		228.09		188.78	
10 PERCENT EXCEEDS	3570		3550		3250	
50 PERCENT EXCEEDS	498		743		400	
90 PERCENT EXCEEDS	113		93		50	

\# See Period of Record; partial years used in monthly statistics and break in record
a From flood marks
b Mar. 1-3, 1969, and Mar. 7-11, 1974

15052800 MONTANA CREEK NEAR AUKE BAY

LOCATION.--Lat 58°23'53", long 134°36'34", in SE$^1/_4$ SW$^1/_4$ sec. 13, T. 40 S., R. 65 E. (Juneau B-2 NW quad.), Hydrologic Unit 19010301,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 Lake, and 3.9 mi downstream from McGinnis Creek.

DRAINAGE AREA.--14.1 mi^2.

PERIOD OF RECORD.-- August 1965 to September 1975, July 1983 to September 1987, Annual Maximum 1996 to 2000, November 2000 to current year.

REVISED RECORDS.--WDR-99-1: 1996-98 (M).

GAGE.--Water-stage recorder. Elevation of gage is 40 ft above sea level, from topographic map.

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

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 800 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Nov. 20	2345	1200	14.84	Dec. 24	0845	913	14.19
Dec. 02	1545	888	14.12	Sept. 19	0815	*1300	*15.01
Dec. 23	1500	856	14.03	Sept. 29	0345	1270	14.96

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	174	81	181	e28	e100	e150	42	e125	86	110	63	251
2	146	120	412	e26	e45	e125	33	e110	76	242	55	127
3	97	248	344	e23	e35	106	33	e100	74	189	130	96
4	248	140	116	e21	e22	97	39	e94	122	171	243	80
5	184	81	76	e19	e17	92	39	e90	105	108	331	100
6	117	63	59	e17	e15	76	44	91	97	95	140	544
7	142	52	53	e16	e13	68	44	107	104	83	93	438
8	159	45	e44	e15	e25	122	37	115	105	74	78	282
9	155	41	40	e14	e80	160	39	126	103	68	71	138
10	208	37	35	e13	e120	322	41	140	94	61	65	108
11	124	33	39	e12	e150	236	39	146	82	62	60	111
12	187	32	98	e12	e80	177	41	138	74	57	57	87
13	317	48	51	e11	e55	147	44	157	75	61	55	122
14	121	66	104	e9.5	e42	104	46	208	80	66	52	82
15	109	128	66	e9.0	e34	80	42	189	73	84	47	67
16	85	121	201	e9.0	e28	62	41	133	72	67	43	62
17	68	80	238	e9.5	e23	51	45	119	89	249	39	323
18	55	62	311	e11	e20	44	49	112	107	172	99	297
19	47	111	221	e13	e17	e40	229	120	101	97	287	795
20	44	543	172	e15	e16	e36	184	110	108	70	148	343
21	41	351	87	e17	e14	e33	404	121	123	67	95	235
22	41	114	153	e23	e18	31	181	112	88	81	147	157
23	35	80	561	e40	e53	28	139	120	77	63	85	268
24	39	97	595	e30	e45	27	193	119	76	55	69	363
25	39	106	144	e20	e33	26	212	96	74	57	357	234
26	33	128	76	e24	e30	26	209	111	76	89	241	161
27	87	112	58	e30	e45	e35	219	127	81	342	106	140
28	194	104	51	e27	e65	46	219	103	126	216	78	474
29	271	88	e44	e25	---	39	180	111	125	139	87	785
30	163	93	e38	e30	---	34	e140	127	92	92	327	365
31	105	---	e33	e44	---	45	---	104	---	75	307	---
TOTAL	3835	3405	4701	613.0	1240	2665	3247	3781	2765	3462	4055	7635
MEAN	124	114	152	19.8	44.3	86.0	108	122	92.2	112	131	254
MAX	317	543	595	44	150	322	404	208	126	342	357	795
MIN	33	32	33	9.0	13	26	33	90	72	55	39	62
AC-FT	7610	6750	9320	1220	2460	5290	6440	7500	5480	6870	8040	15140
CFSM	8.77	8.05	10.8	1.40	3.14	6.10	7.68	8.65	6.54	7.92	9.28	18.0
IN.	10.12	8.98	12.40	1.62	3.27	7.03	8.57	9.98	7.29	9.13	10.70	20.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)#

MEAN	156	77.6	53.1	48.4	42.2	48.7	56.7	127	153	139	152	172
MAX	285	138	152	186	121	195	108	185	207	213	246	263
(WY)	1975	1975	2005	1985	1971	1972	2005	1972	1967	1975	1972	1987
MIN	89.7	21.4	15.9	5.02	7.52	9.64	25.0	61.9	71.1	52.5	45.0	70.9
(WY)	1969	1986	1972	1974	1972	1974	2002	2003	1971	1971	2004	1984

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

15052800 MONTANA CREEK NEAR AUKE BAY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1965 - 2005#	
ANNUAL TOTAL	38077		41404.0			
ANNUAL MEAN	104		113		103	
HIGHEST ANNUAL MEAN					131	1975
LOWEST ANNUAL MEAN					80.8	1971
HIGHEST DAILY MEAN	938	Jan 14	795	Sep 19	1350	Sep 29 1970
LOWEST DAILY MEAN	a11	Jan 7	b9.0	Jan 15	3.4	Feb 8 1972
ANNUAL SEVEN-DAY MINIMUM	12	Jan 4	10	Jan 12	3.5	Jan 13 1974
MAXIMUM PEAK FLOW			1300	Sep 19	3800	Oct 20 1998
MAXIMUM PEAK STAGE			15.01	Sep 19	17.36	Oct 20 1998
INSTANTANEOUS LOW FLOW			c		3.2	Feb 8 1972
ANNUAL RUNOFF (AC-FT)	75530		82120		74800	
ANNUAL RUNOFF (CFSM)	7.38		8.05		7.32	
ANNUAL RUNOFF (INCHES)	100.46		109.24		99.49	
10 PERCENT EXCEEDS	199		239		221	
50 PERCENT EXCEEDS	76		86		75	
90 PERCENT EXCEEDS	24		26		15	

\# See Period of Record; partial years used in monthly statistics
a Jan. 7-9
b Jan. 15 and 16
c Not determined, see lowest daily mean

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 19010301, 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. GOES satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	183	82	56	55	32	48	31	207	289	312	177	222
2	217	83	80	49	33	67	32	181	271	307	160	190
3	203	105	119	44	32	78	31	166	254	288	160	164
4	208	138	112	40	30	83	29	158	264	266	192	148
5	335	122	96	38	28	92	29	151	268	244	247	136
6	322	103	81	35	26	88	29	151	267	234	243	175
7	285	88	70	33	25	81	29	164	285	222	214	230
8	234	77	60	31	26	81	29	187	299	214	202	261
9	205	68	54	28	27	90	29	e215	317	214	202	231
10	187	60	51	27	31	129	30	e234	314	218	204	196
11	162	54	48	25	33	160	30	e255	295	214	208	176
12	142	49	59	23	31	142	31	e275	279	206	217	162
13	218	48	57	22	30	126	33	e300	268	199	230	163
14	209	49	55	21	28	113	35	e320	283	193	234	154
15	176	52	52	20	27	100	35	e350	277	195	218	140
16	146	58	73	20	26	87	35	e340	273	202	197	128
17	120	57	132	20	24	77	34	305	299	248	179	136
18	96	54	158	22	23	67	35	284	346	290	185	223
19	82	54	172	24	22	58	51	289	384	262	209	294
20	71	68	147	25	21	51	83	285	364	236	205	277
21	63	114	120	24	20	46	132	284	333	212	182	233
22	57	109	102	26	20	42	167	280	286	e210	193	193
23	51	95	141	31	21	39	163	282	247	e190	179	177
24	48	85	243	30	21	36	198	285	226	e185	165	190
25	45	76	213	29	21	35	242	271	230	e180	250	213
26	41	69	161	28	21	34	279	275	252	171	351	196
27	43	62	128	28	24	34	300	318	272	190	287	175
28	49	57	109	27	31	34	317	321	313	261	231	296
29	89	56	89	26	---	33	295	312	333	248	197	376
30	97	54	74	26	---	30	248	311	322	215	201	323
31	89	---	63	28	---	30	---	305	---	192	239	---
TOTAL	4473	2246	3175	905	734	2211	3041	8061	8710	7018	6558	6178
MEAN	144	74.9	102	29.2	26.2	71.3	101	260	290	226	212	206
MAX	335	138	243	55	33	160	317	350	384	312	351	376
MIN	41	48	48	20	20	30	29	151	226	171	160	128
AC-FT	8870	4450	6300	1800	1460	4390	6030	15990	17280	13920	13010	12250
CFSM	5.55	2.88	3.94	1.12	1.01	2.74	3.90	10.0	11.2	8.71	8.14	7.92
IN.	6.40	3.21	4.54	1.29	1.05	3.16	4.35	11.53	12.46	10.04	9.38	8.84

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#

MEAN	162	66.5	73.5	40.9	30.9	27.7	49.8	164	307	258	219	217
MAX	240	97.9	134	69.5	73.0	71.3	101	260	368	327	317	271
(WY)	1999	2003	2000	2003	2004	2005	2005	2005	2004	2000	2002	1999
MIN	104	39.4	30.6	21.2	11.5	14.6	14.5	90.1	222	207	170	160
(WY)	1998	2002	2002	1999	1999	1999	2002	2001	2003	2003	2004	2002

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005#	
ANNUAL TOTAL	53162		53310			
ANNUAL MEAN	145		146		135	
HIGHEST ANNUAL MEAN					147	2000
LOWEST ANNUAL MEAN					121	2002
HIGHEST DAILY MEAN	695	Sep 24	384	Jun 19	993	Oct 20 1998
LOWEST DAILY MEAN	21	Jan 12	a20	Jan 15	7.8	Mar 9 1999
ANNUAL SEVEN-DAY MINIMUM	23	Jan 7	21	Feb 20	8.0	Mar 5 1999
MAXIMUM PEAK FLOW			389	Jun 19	b1300	Oct 20 1998
MAXIMUM PEAK STAGE			31.80	Jun 19	34.07	Oct 20 1998
INSTANTANEOUS LOW FLOW			c19	Jan 16	7.8	Mar 9 1999
ANNUAL RUNOFF (AC-FT)	105400		105700		97660	
ANNUAL RUNOFF (CFSM)	5.59		5.62		5.18	
ANNUAL RUNOFF (INCHES)	76.06		76.27		70.45	
10 PERCENT EXCEEDS	301		289		300	
50 PERCENT EXCEEDS	105		141		93	
90 PERCENT EXCEEDS	34		28		20	

\# See Period of Record; partial year was used in monthly statistics.
a Jan. 15-17, and Feb. 21-22
b From rating curve extended above 600 cfs on basis of slope-area measurement at gage height 34.07 ft.
c Jan. 16-17
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 19010301, in Tongass National Forest, about 500 ft upstream from mouth on east 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 45 ft above sea level, from topographic map. May 15,2003 to October 2004, at a site 300 ft upstream at a different datum.

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
July 17	0830	*83	*8.33	Aug. 18	0900	61	8.14
Aug. 04	0415	73	8.22	Aug. 25	0500	81	8.27
Aug. 13	1815	79	8.26	Sept. 18	1645	69	8.26

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.6	3.0	2.4	e1.9	1.2	2.5	1.0	8.1	19	24	17	25
2	8.7	3.2	3.2	e1.9	e1.1	2.9	e1.1	8.2	19	25	19	19
3	5.9	6.2	2.7	e1.8	e1.0	2.0	1.00	8.4	18	25	40	16
4	20	3.8	2.1	e1.8	e0.95	1.8	1.0	8.1	20	26	56	16
5	36	3.1	1.9	1.8	e0.90	1.8	1.1	8.0	17	22	48	19
6	21	3.1	e1.6	1.7	e0.95	1.6	1.2	9.9	18	23	40	28
7	14	3.0	e1.5	1.7	e1.1	1.5	1.2	12	22	19	39	26
8	10	2.9	e1.4	1.7	e1.2	2.1	1.1	14	21	19	42	25
9	7.3	2.9	e1.4	1.6	e1.3	2.1	1.2	18	21	23	42	21
10	7.5	2.8	e1.5	1.5	e1.4	5.2	1.3	22	21	22	46	21
11	6.1	2.7	1.7	e1.5	e1.3	2.3	1.3	24	19	19	51	21
12	14	2.7	2.0	e1.5	1.2	1.9	1.4	24	17	18	54	19
13	21	2.8	1.6	e1.4	1.2	2.0	1.6	26	18	18	57	21
14	8.1	3.0	1.7	e1.3	1.2	2.0	1.6	32	19	21	53	17
15	7.2	3.2	1.7	e1.3	1.1	1.7	1.6	28	17	25	48	14
16	5.7	3.1	9.0	e1.2	1.1	1.5	1.5	18	18	22	44	15
17	5.0	2.9	4.1	e1.2	1.1	1.4	1.5	16	25	37	39	23
18	4.2	2.9	4.1	e1.2	1.1	1.2	1.6	18	28	25	52	32
19	4.0	2.9	3.1	e1.3	1.0	1.2	2.8	19	29	22	45	21
20	4.3	6.2	2.4	e1.3	1.0	1.2	2.8	17	22	19	42	15
21	4.0	4.6	2.0	1.3	1.0	1.2	7.7	18	18	17	34	12
22	3.7	3.1	2.3	1.8	1.1	1.3	5.1	17	15	20	36	11
23	3.4	2.8	11	1.7	1.1	1.2	7.0	18	14	22	27	13
24	3.4	2.7	6.9	1.4	1.1	1.2	17	17	15	21	40	23
25	3.2	2.5	2.7	1.4	1.1	1.2	19	19	17	20	62	14
26	3.2	2.4	e2.3	1.3	1.1	1.2	21	25	19	25	45	11
27	3.5	2.3	e2.2	1.3	1.4	1.1	22	28	22	36	31	11
28	3.6	2.3	e2.1	1.3	2.0	1.1	19	21	31	31	29	17
29	5.9	2.2	e2.0	1.3	---	1.0	13	21	36	23	27	15
30	3.4	2.3	e2.0	1.3	---	1.0	9.6	22	27	20	28	12
31	3.0	---	e1.9	1.4	---	1.1	---	19	---	19	25	---
TOTAL	258.9	93.6	88.5	46.1	32.30	52.5	169.30	563.7	622	708	1258	553
MEAN	8.35	3.12	2.85	1.49	1.15	1.69	5.64	18.2	20.7	22.8	40.6	18.4
MAX	36	6.2	11	1.9	2.0	5.2	22	32	36	37	62	32
MIN	3.0	2.2	1.4	1.2	0.90	1.0	1.0	8.0	14	17	17	11
AC-FT	514	186	176	91	64	104	336	1120	1230	1400	2500	1100
CFSM	5.46	2.04	1.87	0.97	0.75	1.11	3.69	11.9	13.6	14.9	26.5	12.0
IN.	6.29	2.28	2.15	1.12	0.79	1.28	4.12	13.71	15.12	17.21	30.59	13.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#

MEAN	10.8	3.55	3.04	1.50	1.17	1.06	2.83	10.6	22.9	30.0	28.5	17.3
MAX	18.4	8.35	5.89	2.94	2.06	1.76	5.64	18.2	27.2	40.5	43.9	24.4
(WY)	2003	2003	2003	2003	2004	1999	2005	2005	2003	2003	2002	2003
MIN	4.70	1.72	0.89	0.88	0.58	0.50	0.70	4.87	20.7	22.8	18.5	7.74
(WY)	1998	2002	2002	2002	2002	2002	2002	2001	2005	2005	2004	2004

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

15056030 KAKUHAN CREEK NEAR HAINES—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005#	
ANNUAL TOTAL	3466.95		4445.90			
ANNUAL MEAN	9.47		12.2		11.2	
HIGHEST ANNUAL MEAN					14.0	2003
LOWEST ANNUAL MEAN					9.61	2004
HIGHEST DAILY MEAN	37	Jun 30	62	Aug 25	155	Aug 13 2002
LOWEST DAILY MEAN	0.38	Mar 23	0.90	Feb 5	0.36	Feb 24 2001
ANNUAL SEVEN-DAY MINIMUM	0.42	Mar 18	1.0	Feb 1	0.41	Feb 19 2001
MAXIMUM PEAK FLOW			83	Jul 17	a415	Aug 31 1998
MAXIMUM PEAK STAGE			8.33	Jul 17	b8.77	Aug 31 1998
ANNUAL RUNOFF (AC-FT)	6880		8820		8110	
ANNUAL RUNOFF (CFSM)	6.19		7.96		7.31	
ANNUAL RUNOFF (INCHES)	84.29		108.10		99.38	
10 PERCENT EXCEEDS	24		28		30	
50 PERCENT EXCEEDS	3.9		5.9		4.4	
90 PERCENT EXCEEDS	0.55		1.2		0.74	

\# See Period of Record; partial years used in monthly statistics
a From rating curve extended above 51 ft^3/s
b At site 300 ft downstream, at different datum.

15056030 KAKUHAN CREEK NEAR HAINES—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.-- 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 July 25. 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, 15.5°C, August 16, 2004; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 15.0°C, August 12; minimum, 0.0°C, on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUL							
25...	0927	14.0	1.50	7.79	18	9.4	13.6
25...	0928	14.0	4.50	7.79	18	9.4	13.6
25...	0929	14.0	7.50	7.79	18	9.4	13.6
25...	0930	14.0	10.5	7.79	18	9.4	13.6
25...	0931	14.0	13.5	7.79	18	9.4	13.6

TEMPERATURE, WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.5	7.5	8.0	2.0	1.0	1.5	5.0	4.0	4.5	0.0	0.0	0.0
2	8.0	7.0	7.5	2.5	1.5	1.5	4.5	3.5	4.0	0.0	0.0	0.0
3	8.0	7.0	7.0	4.5	2.5	3.5	4.0	1.5	3.0	0.0	0.0	0.0
4	7.0	6.5	7.0	2.5	1.5	2.0	1.5	0.0	0.5	0.5	0.0	0.0
5	7.5	6.0	6.5	1.5	0.5	1.0	0.0	0.0	0.0	0.5	0.0	0.5
6	6.5	5.5	6.0	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
7	7.0	6.0	6.5	1.0	0.0	0.5	0.0	0.0	0.0	0.5	0.0	0.5
8	6.5	6.0	6.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5
9	7.0	5.5	6.0	1.5	0.5	1.0	0.0	0.0	0.0	0.5	0.0	0.5
10	7.5	6.0	6.5	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0
11	7.0	5.0	6.0	1.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
12	8.5	4.5	5.5	2.5	1.0	1.5	1.0	0.5	1.0	0.0	0.0	0.0
13	9.0	7.0	7.5	3.5	2.5	3.0	1.0	0.5	1.0	0.0	0.0	0.0
14	7.5	6.0	7.0	4.0	3.0	3.5	2.0	1.0	1.5	0.0	0.0	0.0
15	7.5	4.5	6.0	3.5	3.5	3.5	2.0	1.0	1.5	0.0	0.0	0.0
16	5.0	3.0	4.0	3.5	3.0	3.5	3.0	2.0	2.5	0.0	0.0	0.0
17	3.5	2.0	2.5	3.0	2.5	2.5	3.5	3.0	3.5	0.0	0.0	0.0
18	2.0	0.0	0.5	3.0	2.5	2.5	4.5	3.0	3.5	0.0	0.0	0.0
19	0.5	0.0	0.0	3.5	1.5	2.5	3.0	2.5	3.0	0.5	0.0	0.5
20	2.0	0.5	1.0	4.0	3.0	3.5	3.0	0.5	2.0	0.5	0.5	0.5
21	2.5	1.5	2.0	3.5	2.5	3.0	1.0	0.5	1.0	0.5	0.5	0.5
22	2.5	0.5	1.5	3.0	2.0	2.5	3.5	0.5	1.5	0.5	0.0	0.5
23	0.5	0.0	0.0	2.5	2.0	2.0	4.5	3.5	4.0	1.0	0.5	0.5
24	1.5	0.0	0.5	2.5	1.0	2.0	4.0	0.0	3.0	1.0	0.5	1.0
25	2.0	1.0	1.5	2.5	2.0	2.5	0.0	0.0	0.0	1.0	0.5	1.0
26	2.5	0.5	1.5	2.5	2.0	2.0	0.0	0.0	0.0	1.0	0.5	0.5
27	3.5	1.5	2.5	3.5	2.0	3.0	0.0	0.0	0.0	0.5	0.0	0.0
28	4.0	3.5	3.5	4.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
29	4.0	3.0	3.5	4.0	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0
30	3.5	2.5	3.0	4.0	3.0	3.5	0.0	0.0	0.0	0.5	0.0	0.5
31	3.0	2.0	2.5	---	---	---	0.0	0.0	0.0	1.0	0.5	1.0
MONTH	9.0	0.0	4.2	4.5	0.0	2.2	5.0	0.0	1.3	1.0	0.0	0.3

15056030 KAKUHAN CREEK NEAR HAINES—Continued

TEMPERATURE, WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	0.0	0.5	1.0	0.5	1.0	1.0	0.5	0.5	6.5	3.5	4.5
2	0.0	0.0	0.0	1.5	0.5	1.0	0.5	0.0	0.0	6.5	3.5	4.5
3	0.0	0.0	0.0	1.5	1.0	1.5	1.0	0.0	0.5	6.5	4.0	5.0
4	0.0	0.0	0.0	1.5	1.0	1.5	2.5	1.0	1.5	6.5	4.5	5.0
5	0.0	0.0	0.0	2.0	1.0	1.5	2.5	1.5	2.0	7.0	3.5	5.0
6	0.0	0.0	0.0	2.0	1.0	1.5	3.5	2.0	2.5	8.5	4.0	5.5
7	0.0	0.0	0.0	2.0	1.0	1.5	3.0	1.0	2.0	8.0	4.0	5.5
8	0.0	0.0	0.0	2.0	1.5	2.0	3.0	1.0	2.0	8.5	4.0	6.0
9	0.5	0.0	0.0	2.5	2.0	2.0	2.5	2.5	2.5	8.5	5.0	6.0
10	0.5	0.5	0.5	2.0	1.5	2.0	3.5	2.0	2.5	8.5	4.5	6.0
11	0.5	0.5	0.5	3.0	1.5	2.0	3.0	2.0	2.5	9.0	5.0	6.5
12	0.5	0.0	0.0	3.5	2.5	3.0	3.5	2.5	3.0	6.5	5.0	6.0
13	0.0	0.0	0.0	3.5	2.5	2.5	3.5	2.5	3.0	7.5	5.5	6.0
14	0.0	0.0	0.0	3.0	2.0	2.5	4.0	2.5	3.0	7.5	5.0	6.0
15	0.0	0.0	0.0	2.0	0.5	1.5	3.5	1.5	2.5	7.0	4.5	5.5
16	0.5	0.0	0.0	1.0	0.0	0.5	3.0	1.5	2.5	7.0	5.0	6.0
17	0.5	0.5	0.5	1.5	0.0	0.5	4.5	2.5	3.0	8.0	4.5	6.0
18	0.5	0.5	0.5	0.5	0.0	0.0	3.0	2.5	3.0	9.0	4.5	6.5
19	0.5	0.0	0.0	0.0	0.0	0.0	4.5	1.5	3.0	7.5	5.0	6.0
20	0.5	0.0	0.0	0.0	0.0	0.0	5.0	3.5	4.0	8.5	5.5	6.5
21	0.5	0.0	0.5	0.0	0.0	0.0	6.0	3.5	4.5	7.5	5.0	6.5
22	0.5	0.5	0.5	0.0	0.0	0.0	5.5	3.0	4.0	9.5	4.5	6.5
23	0.5	0.5	0.5	0.0	0.0	0.0	8.0	3.5	5.0	9.5	5.5	7.0
24	1.0	0.5	0.5	0.0	0.0	0.0	7.5	3.5	5.0	7.5	6.0	6.5
25	1.0	1.0	1.0	0.5	0.0	0.5	7.5	4.0	5.0	8.5	5.0	6.5
26	1.0	0.5	0.5	1.5	0.5	1.0	7.0	4.0	5.0	8.5	6.0	7.0
27	1.0	1.0	1.0	2.0	1.0	1.5	7.5	4.0	5.0	7.0	5.5	6.5
28	1.0	0.5	1.0	1.5	0.5	1.0	6.0	4.0	5.0	9.0	5.0	6.5
29	---	---	---	2.0	1.0	1.0	6.0	3.5	4.5	9.0	6.0	7.5
30	---	---	---	2.5	1.0	1.5	5.5	3.0	4.0	8.0	6.0	7.0
31	---	---	---	2.0	0.5	1.0	---	---	---	9.5	5.0	7.0
MONTH	1.0	0.0	0.3	3.5	0.0	1.1	8.0	0.0	3.1	9.5	3.5	6.1

		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.5	5.5	7.0	10.0	8.5	9.0	10.5	8.0	9.0	8.5	6.5	7.5
2	9.0	5.0	6.5	9.0	8.0	8.5	11.0	8.5	9.5	10.5	7.0	8.0
3	9.0	5.0	6.5	9.5	7.5	8.5	9.0	8.0	8.5	10.0	7.5	8.5
4	7.0	6.0	6.5	10.0	6.5	8.0	9.0	8.0	8.5	9.5	8.0	8.5
5	10.0	5.0	7.0	11.0	6.5	8.5	9.5	8.0	8.5	8.5	8.0	8.0
6	10.5	6.5	8.0	10.5	8.0	9.0	12.0	8.0	9.5	8.5	8.0	8.5
7	10.5	5.5	8.0	9.5	7.5	8.5	13.0	8.5	10.5	9.5	7.5	8.5
8	11.5	6.5	8.5	13.0	6.5	9.5	13.5	9.0	11.0	11.0	7.5	8.5
9	11.0	7.0	8.5	13.0	8.5	10.5	14.0	9.5	11.0	10.5	6.5	8.0
10	9.0	6.5	7.5	10.5	9.0	9.5	14.0	9.0	11.0	8.5	7.5	8.0
11	9.5	6.5	8.0	11.0	8.5	9.5	14.5	9.5	11.5	11.0	8.0	9.0
12	9.5	7.0	8.0	11.0	9.0	10.0	15.0	10.0	12.0	9.0	8.5	8.5
13	11.5	7.0	8.5	10.0	8.0	9.0	14.5	10.5	12.0	11.0	7.5	9.0
14	8.0	7.0	7.5	10.0	8.0	8.5	13.5	10.5	11.5	10.0	7.5	8.5
15	8.0	6.5	7.5	12.0	8.0	9.5	11.0	9.5	10.5	10.0	6.5	8.0
16	12.0	7.0	9.0	10.5	8.0	9.5	12.5	9.5	10.5	8.0	7.0	7.5
17	13.0	7.5	9.5	9.5	8.0	8.5	11.0	9.0	10.0	8.0	6.5	7.5
18	13.0	8.0	10.0	10.0	7.5	9.0	10.5	9.5	10.0	7.5	6.5	7.0
19	9.5	7.5	8.5	12.0	8.0	9.5	10.5	8.5	9.5	7.5	7.0	7.0
20	8.0	6.0	7.0	12.0	7.5	9.5	9.0	8.0	8.5	8.0	6.5	7.0
21	7.5	5.5	6.5	10.0	8.0	9.0	9.0	8.0	8.5	8.0	6.5	7.0
22	8.0	6.5	7.5	13.5	8.5	10.5	9.0	8.0	8.5	8.0	6.5	7.0
23	8.5	7.0	8.0	13.0	8.5	10.5	10.0	7.5	8.5	8.5	7.0	8.0
24	11.5	6.0	8.5	11.5	9.0	10.0	9.0	8.5	8.5	10.5	7.0	8.5
25	13.0	7.5	10.0	10.0	8.5	9.5	9.5	8.0	9.0	8.0	6.5	7.0
26	13.5	8.0	10.5	10.5	8.5	9.5	9.5	7.0	8.0	8.0	6.0	6.5
27	13.0	9.0	10.5	11.0	8.5	9.5	10.0	6.5	8.5	6.5	5.0	6.0
28	9.5	8.5	9.0	10.0	7.5	8.5	11.0	7.5	9.0	7.0	5.5	6.5
29	11.0	8.0	9.0	9.5	7.5	8.5	8.5	7.5	8.0	7.0	6.0	6.5
30	10.5	8.0	9.0	10.0	7.5	8.5	8.5	7.5	8.0	7.0	6.0	6.5
31	---	---	---	11.0	8.0	9.0	8.0	7.0	7.5	---	---	---
MONTH	13.5	5.0	8.2	13.5	6.5	9.2	15.0	6.5	9.5	11.0	5.0	7.7

15056210 TAIYA RIVER NEAR SKAGWAY

LOCATION.--Lat 59°30'43", long 135°20'40", in SW¼ NE¼ SE¼ sec. 22, T. 27 S., R. 59 E. (Skagway C-1 quad), Hydrologic Unit 19010303, on the downstream side of highway bridge, 1.0 mi downstream from West Creek, 2.2 mi upstream from mouth, and 4 mi north of Skagway.

DRAINAGE AREA.--179 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.-- October 1969 to November 1977; October 2003 to current year.

GAGE.--Water-stage recorder.

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

EXTREMES OUTSIDE PERIOD OF RECORD --Flood of September 1967 overflowed banks and probably reached a peak discharge of over 25,000 ft^3/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2340	315	370	e102	e62	174	104	977	2410	3660	2310	2190
2	2300	298	570	e92	e59	256	98	886	2290	3680	2160	1770
3	2160	628	611	e85	e57	278	94	942	2190	3420	2490	1530
4	2320	529	431	e86	e54	227	95	994	2500	3070	3960	1730
5	2350	375	e310	e87	e51	253	97	980	2500	2790	4390	2120
6	1910	315	e250	e88	e50	231	104	1090	2560	3530	3560	3780
7	1590	279	e210	e88	e53	188	110	1250	2720	2960	3280	4470
8	1230	250	e180	e89	e57	223	107	1450	2640	2810	3510	3640
9	1030	247	e185	e82	e62	332	113	1800	2950	3300	3680	2250
10	1210	233	e190	e77	e70	445	124	2160	2870	3520	3870	1950
11	1030	219	e210	e72	e64	397	127	2370	2590	3430	4340	1830
12	811	211	242	e68	e59	351	144	2610	2650	3160	4730	1880
13	2120	220	214	e65	e55	391	174	2360	2570	3090	5060	2500
14	1510	226	194	e62	e52	325	170	2490	2790	2890	4850	1840
15	1170	234	188	e59	e50	264	161	2660	2620	2780	4030	1460
16	820	250	368	e56	e51	218	151	2380	2680	2870	3600	1510
17	621	238	691	e54	e52	185	147	2130	3330	3870	3280	2260
18	496	225	659	e52	e53	e156	147	1950	4160	3810	4080	2670
19	420	224	543	e50	e54	e135	186	2160	4060	3040	4040	3810
20	396	348	403	e50	e55	e120	326	2470	3870	2710	2940	2540
21	369	423	325	e52	e57	e110	571	2500	3110	2530	2830	1610
22	341	328	288	e56	e60	e107	631	2200	2380	2620	3540	1300
23	300	282	987	e60	e63	e103	621	2080	2230	2720	2670	1650
24	300	259	1330	e58	e69	e100	1220	2150	2390	2820	3140	3150
25	283	253	776	e57	e75	108	1920	2090	2960	2600	6140	2570
26	267	243	e560	e56	80	107	2110	2040	3390	2600	3930	1590
27	293	225	e480	e55	85	110	2300	2520	3510	3010	2690	1190
28	349	282	e290	e54	127	110	2150	2420	3610	3340	2520	1580
29	495	318	e220	e61	---	105	1660	2350	3330	3160	2240	2210
30	419	288	e170	e70	---	100	1250	2590	3350	2900	3230	2040
31	353	---	e125	e66	---	104	---	2550	---	2640	3180	---
TOTAL	31603	8765	12570	2109	1736	6313	17212	61599	87210	95330	110270	66620
MEAN	1019	292	405	68.0	62.0	204	574	1987	2907	3075	3557	2221
MAX	2350	628	1330	102	127	445	2300	2660	4160	3870	6140	4470
MIN	267	211	125	50	50	100	94	886	2190	2530	2160	1190
AC-FT	62680	17390	24930	4180	3440	12520	34140	122200	173000	189100	218700	132100
CFSM	5.70	1.63	2.27	0.38	0.35	1.14	3.21	11.1	16.2	17.2	19.9	12.4
IN.	6.57	1.82	2.61	0.44	0.36	1.31	3.58	12.80	18.12	19.81	22.92	13.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2005, BY WATER YEAR (WY)#

MEAN	813	375	174	83.4	102	89.8	190	948	2331	3521	3482	2031
MAX	1535	805	405	112	191	204	574	1987	4079	4558	4776	3131
(WY)	1975	1970	2005	1970	1977	2005	2005	2005	2004	1971	1977	1975
MIN	444	91.5	54.2	33.3	49.4	27.7	53.5	452	1625	2592	2718	1215
(WY)	1974	1974	1973	1973	1974	1974	1972	1971	1974	1970	1970	1973

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1970 - 2005#	
ANNUAL TOTAL	532161		501337			
ANNUAL MEAN	1454		1374		1189	
HIGHEST ANNUAL MEAN					1424	2004
LOWEST ANNUAL MEAN					880	1973
HIGHEST DAILY MEAN	6960	Jun 22	6140	Aug 25	9620	Sep 13 1975
LOWEST DAILY MEAN	65	Jan 12	a50	Jan 19	b16	Mar 30 1974
ANNUAL SEVEN-DAY MINIMUM	70	Jan 7	52	Feb 13	17	Mar 27 1974
MAXIMUM PEAK FLOW			7690	Aug 25	11500	Sep 27 1976
MAXIMUM PEAK STAGE			17.32	Aug 25	18.43	Sep 27 1976
ANNUAL RUNOFF (AC-FT)	1056000		994400		861100	
ANNUAL RUNOFF (CFSM)	8.12		7.67		6.64	
ANNUAL RUNOFF (INCHES)	110.59		104.19		90.22	
10 PERCENT EXCEEDS	3900		3340		3390	
50 PERCENT EXCEEDS	535		628		368	
90 PERCENT EXCEEDS	103		63		60	

\# See Period of Record; break in record
a Jan. 19 and 20; Feb. 6 and 15
b Mar. 30 and 31
e Estimated

15056210 TAIYA RIVER NEAR SKAGWAY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1969-74, 1976-1977, and 2004 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June to October 1971, July 1972 to October 1973, March to September 1974, February to September 1977, and October 2003 to current year.

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

REMARKS.--Records represent water temperature at sensor within 1.0°C. Temperature at the sensor was compared with the stream average by cross section on July 29. A variation of 0.1°C was found within the cross section. The variation found between between mean stream temperature and sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 10.0°C, May 21, 1974; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum,9.0°C, June 6, 24-26, and July 8; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUL							
29...	0746	185	6.00	15.44	3250	4.8	10.8
29...	0747	185	37.0	15.44	3250	4.8	10.8
29...	0748	185	68.0	15.44	3250	4.8	10.8
29...	0749	185	99.0	15.44	3250	4.8	10.8
29...	0750	185	130	15.44	3250	4.9	10.8
29...	0751	185	161	15.44	3250	4.9	10.8

TEMPERATURE, WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.0	5.0	5.5	3.0	2.5	3.0	4.5	3.5	4.0	0.5	0.0	0.5
2	5.5	4.5	5.0	3.0	2.0	2.5	4.0	2.5	3.5	0.5	0.0	0.5
3	5.5	4.5	5.0	3.5	2.0	3.0	4.0	2.5	3.5	0.5	0.0	0.5
4	5.5	4.0	5.0	3.5	2.5	3.0	3.0	0.0	1.5	0.5	0.0	0.5
5	5.5	4.0	4.5	3.0	1.5	2.0	0.5	0.0	0.5	0.5	0.0	0.5
6	5.5	4.0	4.5	2.5	1.5	2.0	0.5	0.0	0.5	0.5	0.0	0.5
7	5.5	4.5	5.0	2.0	0.0	1.0	0.5	0.0	0.5	0.5	0.0	0.5
8	6.0	4.0	5.0	1.0	0.0	0.5	0.5	0.0	0.5	0.5	0.0	0.5
9	6.0	4.5	5.0	2.0	0.0	1.0	0.5	0.0	0.5	0.5	0.0	0.5
10	6.0	4.5	5.0	2.5	1.5	2.0	0.5	0.0	0.5	0.5	0.0	0.5
11	5.5	4.0	4.5	2.5	1.0	1.5	1.5	0.0	1.0	0.5	0.0	0.5
12	5.0	3.0	4.0	2.5	1.0	1.5	2.0	1.0	1.5	1.0	0.0	0.5
13	6.0	4.5	5.5	3.0	2.0	2.5	2.0	0.5	1.5	1.0	0.0	0.5
14	5.5	4.0	5.0	3.5	2.0	3.0	2.5	1.0	2.0	1.0	0.0	0.5
15	5.0	4.0	4.5	3.0	2.5	3.0	2.5	1.5	2.0	0.5	0.0	0.5
16	4.5	2.5	3.5	3.5	2.0	3.0	2.5	0.5	1.5	0.5	0.0	0.5
17	3.5	2.5	3.0	3.0	2.0	2.5	2.5	1.0	2.0	0.5	0.0	0.5
18	3.0	1.0	2.0	3.0	2.5	3.0	3.0	2.0	2.5	0.5	0.0	0.5
19	2.0	0.0	1.0	3.5	2.0	2.5	3.0	2.5	2.5	0.5	0.0	0.5
20	2.0	1.0	1.5	3.5	2.5	3.0	3.0	2.0	2.5	0.5	0.0	0.5
21	2.5	1.0	1.5	3.5	2.0	2.5	2.5	1.5	2.0	0.5	0.0	0.5
22	2.5	0.5	2.0	3.5	2.5	3.0	3.5	1.5	2.5	0.5	0.0	0.5
23	1.0	0.0	0.5	3.0	2.5	3.0	4.0	2.5	3.0	0.5	0.0	0.5
24	2.0	0.5	1.0	3.0	2.0	2.5	3.0	1.5	2.5	0.5	0.0	0.5
25	2.5	1.0	2.0	3.5	2.5	3.0	1.5	0.0	0.5	0.5	0.0	0.0
26	2.0	0.5	1.0	3.0	2.5	3.0	0.5	0.0	0.5	0.5	0.0	0.5
27	3.0	1.5	2.5	3.5	2.5	3.0	0.5	0.0	0.5	0.5	0.0	0.0
28	4.0	2.5	3.0	4.0	3.0	3.5	0.5	0.0	0.5	0.5	0.0	0.0
29	3.5	1.0	2.5	4.0	3.0	3.5	0.5	0.0	0.5	0.5	0.0	0.0
30	3.5	2.5	3.0	4.0	3.0	3.5	0.5	0.0	0.5	0.5	0.0	0.0
31	3.5	2.5	3.0	---	---	---	0.5	0.0	0.5	0.5	0.0	0.5
MONTH	6.0	0.0	3.4	4.0	0.0	2.5	4.5	0.0	1.5	1.0	0.0	0.4

15056210 TAIYA RIVER NEAR SKAGWAY—Continued

TEMPERATURE, WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.5	0.0	0.0	1.0	0.5	0.5	4.0	1.0	2.5	7.0	2.0	4.0
2	0.5	0.0	0.0	1.0	0.0	0.5	4.5	1.5	3.0	7.5	2.0	4.5
3	0.5	0.0	0.5	1.5	0.0	0.5	4.5	1.5	3.0	7.0	2.5	4.5
4	0.5	0.0	0.0	1.5	0.5	1.0	5.0	2.5	3.5	6.0	3.0	4.5
5	0.5	0.0	0.5	2.0	0.5	1.5	5.0	2.0	3.5	8.5	3.0	5.5
6	0.5	0.0	0.5	2.5	0.5	1.5	6.5	3.0	4.5	8.0	2.5	5.0
7	0.5	0.0	0.0	3.0	1.0	2.0	5.5	1.0	3.0	8.5	2.5	5.0
8	0.5	0.0	0.0	2.0	0.5	1.5	5.5	0.5	3.0	8.5	2.5	5.0
9	0.5	0.0	0.0	1.5	0.5	1.0	5.5	2.5	4.0	8.0	3.0	5.0
10	0.5	0.0	0.0	1.0	0.0	0.5	6.5	3.0	4.0	8.0	3.0	5.0
11	0.5	0.0	0.0	2.5	0.5	1.5	5.5	2.0	4.0	8.0	3.0	5.0
12	0.5	0.0	0.5	3.0	1.5	2.0	5.0	3.0	4.0	6.5	3.5	5.0
13	0.5	0.0	0.0	2.5	1.0	2.0	4.5	2.5	3.5	6.5	3.5	4.5
14	0.5	0.0	0.0	3.5	1.5	2.5	5.0	2.5	4.0	6.5	3.5	4.5
15	0.5	0.0	0.0	3.0	0.5	1.5	6.5	2.0	4.0	6.5	3.5	5.0
16	0.5	0.0	0.0	3.0	0.0	1.5	6.0	2.0	4.0	6.5	3.5	4.5
17	0.5	0.0	0.0	2.5	0.0	1.0	6.5	2.5	4.5	6.5	3.5	4.5
18	0.5	0.0	0.0	1.5	0.0	0.5	5.0	3.0	4.0	7.5	2.5	5.0
19	0.5	0.0	0.0	0.5	0.0	0.0	4.0	2.0	3.0	7.5	3.0	5.0
20	0.5	0.0	0.0	0.5	0.0	0.0	5.5	2.5	4.0	7.0	3.5	5.0
21	0.5	0.0	0.0	0.5	0.0	0.0	5.5	2.5	3.5	6.5	3.5	5.0
22	0.5	0.0	0.0	1.5	0.0	0.5	6.5	1.5	4.0	8.0	3.0	5.0
23	0.5	0.0	0.0	4.0	0.5	2.0	8.0	1.5	4.0	7.0	3.5	5.0
24	0.5	0.0	0.5	3.5	0.0	1.5	7.0	1.5	3.5	6.5	4.0	5.0
25	1.5	0.0	0.5	3.0	0.5	2.0	6.5	2.0	3.5	7.5	3.5	5.5
26	1.0	0.5	1.0	4.5	1.5	3.0	6.0	2.0	3.5	6.5	4.0	5.5
27	1.5	0.5	1.0	5.0	2.5	3.5	6.5	2.0	4.0	6.0	4.0	5.0
28	1.5	0.5	1.0	5.0	1.5	3.5	6.0	2.5	4.0	7.5	4.0	5.5
29	---	---	---	3.0	2.0	2.5	6.5	2.0	4.0	7.0	3.5	5.5
30	---	---	---	4.5	1.5	3.0	6.5	2.5	4.0	7.0	4.5	5.5
31	---	---	---	3.5	2.0	3.0	---	---	---	8.5	3.5	5.5
MONTH	1.5	0.0	0.2	5.0	0.0	1.5	8.0	0.5	3.7	8.5	2.0	5.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.0	3.5	5.5	6.5	5.0	5.5	6.5	4.5	5.5	6.5	4.5	5.0
2	8.5	3.5	5.5	6.0	5.0	5.5	7.0	5.0	6.0	6.5	4.5	5.0
3	8.5	3.5	6.0	7.0	4.5	5.5	6.0	5.0	5.5	7.0	4.5	5.5
4	5.5	4.5	5.0	7.0	4.5	5.5	6.0	5.0	5.5	6.0	4.5	5.5
5	8.0	3.5	5.5	8.5	4.0	6.0	5.5	4.5	5.0	5.5	4.5	5.0
6	9.0	4.0	6.0	6.5	5.0	6.0	7.5	4.5	5.5	5.5	4.5	5.0
7	8.0	4.0	5.5	6.5	4.5	5.5	7.5	4.5	6.0	6.0	5.0	5.5
8	8.5	4.0	6.0	9.0	4.5	6.5	7.5	4.5	6.0	6.5	4.5	5.5
9	8.5	4.5	6.0	8.5	5.0	6.5	8.0	5.0	6.0	7.0	4.0	5.0
10	7.0	4.5	5.5	8.0	5.5	6.5	8.0	4.5	6.0	5.5	4.5	5.0
11	8.0	4.5	6.0	7.5	5.0	6.0	8.0	4.5	6.0	7.0	4.5	5.5
12	7.0	4.5	5.5	6.5	5.0	6.0	8.0	4.5	6.0	6.0	4.5	5.0
13	8.5	4.5	6.0	7.0	5.0	6.0	7.5	5.0	6.0	6.0	5.0	5.5
14	6.5	4.5	5.5	6.5	5.0	5.5	7.0	4.5	5.5	6.5	4.5	5.0
15	6.0	4.5	5.0	8.5	4.5	6.0	7.5	4.5	5.5	6.5	4.0	5.0
16	8.5	4.0	6.0	7.0	4.5	5.5	6.5	5.0	5.5	6.0	5.0	5.5
17	8.5	4.5	6.0	6.5	5.0	6.0	6.0	4.5	5.0	5.5	4.5	5.0
18	8.5	4.5	6.0	6.0	4.5	5.5	6.0	4.5	5.5	5.0	4.0	4.5
19	5.5	5.0	5.0	8.0	4.5	6.0	6.0	4.5	5.5	5.5	4.5	5.0
20	6.0	4.5	5.0	7.0	4.5	5.5	6.0	4.5	5.0	5.5	4.5	5.0
21	6.0	4.0	5.0	7.0	5.0	5.5	6.0	4.5	5.0	6.0	4.5	5.0
22	6.0	4.5	5.0	8.5	4.5	6.0	6.0	4.5	5.0	6.0	4.5	5.0
23	7.0	4.5	5.5	8.5	4.5	6.5	5.5	4.5	5.0	6.0	4.5	5.5
24	9.0	4.5	6.5	7.5	5.5	6.0	5.5	4.5	5.0	6.5	5.0	6.0
25	9.0	4.5	6.5	6.5	5.0	6.0	5.5	4.5	5.0	5.5	4.0	4.5
26	9.0	4.5	6.5	7.0	5.0	6.0	5.5	4.5	5.0	5.5	4.0	4.5
27	8.5	5.0	6.5	7.0	5.0	6.0	6.0	4.0	5.0	5.0	4.0	4.5
28	6.5	5.0	5.5	6.5	5.0	5.5	7.0	4.5	5.5	5.0	3.0	4.0
29	7.5	5.0	6.0	6.5	4.5	5.5	5.0	4.0	4.5	5.5	4.5	5.0
30	8.0	5.0	6.0	7.0	4.5	5.5	5.5	4.5	5.0	5.5	4.5	4.5
31	---	---	---	7.0	4.5	5.5	5.5	4.5	5.0	---	---	---
MONTH	9.0	3.5	5.7	9.0	4.0	5.8	8.0	4.0	5.4	7.0	3.0	5.0

15070000 SWAN LAKE NEAR KETCHIKAN

LOCATION.--Lat 55°36'54", long 131°20'14", in SW$^1/_4$ NE$^1/_4$ 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.--49 years (water years 1917-25, 1928-33, 1947-59, 1985-2005), 444 ft^3/s, 165.19 in/yr, 321,680 acre-ft/yr. Mean discharge for water years 1985-2005 adjusted for change in contents of Swan Lake.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents observed, 134,920 acre-ft, October 26, 2003, elevation, 336.10 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, 124,000 acre-ft, December 25, elevation, 328.50 ft; minimum contents observed, 83,060 acre-ft, October 4, elevation, 300.20 ft. Maximum release from reservoir (mean daily, not adjusted for changes in storage),823 ft^3/s, January 13; minimum release, 0 ft^3/s, June 28-July 1.

MONTH END RESERVOIR ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, IN ACRE FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
Sep 30	302.7	86,670	
Oct 31	312.0	100,130	+13,460
Nov 30	320.7	112,720	+12,590
Dec 31	324.8	118,640	+5,920
Jan 31	323.4	116,620	-2,020
Feb 28	318.3	109,240	-7,380
Mar 31	321.3	113,580	+4,340
Apr 30	323.9	117,350	+3,770
May 31	322.0	114,600	-2,750
Jun 30	314.1	103,160	-11,440
Jul 31	317.7	108,380	+5,220
Aug 31	315.4	105,050	-3,330
Sep 30	326.0	120,380	+15,330
		CAL YR 2004	-5,660
		WTR YR 2005	+33,710

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
MEAN VALUES

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT	423	0	423	642
NOV	441	0	441	653
DEC	540	0	540	636
JAN	582	0	582	549
FEB	444	0	444	311
MAR	366	0	366	437
APR	358	0	358	421
MAY	305	0	305	260
JUN	295	0	295	103
JUL	347	0	347	432
AUG	383	0	383	329
SEP	333	0	333	591
CAL YR 2004	412	20.9	433	426
WTR YR 2005	401	0	401	447

15072000 FISH CREEK NEAR KETCHIKAN

LOCATION.--Lat 55°23'31", long 131°11'38", in SW¼ SW¼ sec. 6, T. 75 S., R. 94 E. (Ketchikan B-4 quad.), Gateway Borough, Hydrologic Unit 19010102, 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 fair. 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)
Feb. 01	1515	*2150	*3.36	No peaks greater than base discharge			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	333	810	462	243	1930	155	342	267	129	106	222	761
2	279	913	822	211	1820	213	366	234	122	117	204	1290
3	237	1050	1440	187	1320	469	382	218	116	167	185	1030
4	231	1840	1160	167	982	841	393	204	114	372	197	762
5	628	1560	845	151	718	856	384	190	109	835	219	567
6	894	1040	630	140	526	680	424	179	103	906	239	509
7	1150	761	480	127	404	659	364	170	97	1020	246	759
8	1100	592	381	118	334	811	330	163	92	887	229	909
9	860	455	372	108	329	916	389	159	88	684	208	728
10	801	363	340	102	544	1050	514	157	87	536	186	558
11	812	301	289	99	751	1470	546	157	85	435	167	437
12	741	260	252	93	663	1140	465	158	82	357	150	353
13	1230	451	238	86	482	830	384	160	82	299	138	319
14	1040	968	275	82	370	625	336	181	89	281	126	283
15	791	1140	337	77	301	489	370	207	91	569	116	250
16	607	1070	799	79	258	399	367	229	88	672	108	220
17	471	868	816	187	224	324	317	232	83	545	101	199
18	374	681	1050	274	203	272	283	220	78	446	97	281
19	306	528	1570	384	181	229	358	209	74	384	139	401
20	257	479	1190	462	163	199	424	201	73	322	250	633
21	226	803	926	549	149	175	432	199	72	279	1120	752
22	253	811	710	793	137	157	430	192	70	245	1020	568
23	231	679	644	1010	127	142	402	189	71	217	855	445
24	266	662	975	1150	124	130	394	199	79	205	664	389
25	293	582	961	930	155	121	403	204	87	189	510	449
26	242	518	755	781	154	120	397	195	88	173	490	456
27	222	453	578	775	147	126	393	182	86	234	501	395
28	232	401	552	1110	147	148	379	169	86	299	495	744
29	639	435	447	1200	---	174	343	158	90	288	410	1080
30	721	432	354	1300	---	177	304	147	97	253	463	1060
31	651	---	290	1770	---	316	---	138	---	231	533	---
TOTAL	17118	21906	20940	14745	13643	14413	11615	5867	2708	12553	10588	17587
MEAN	552	730	675	476	487	465	387	189	90.3	405	342	586
MAX	1230	1840	1570	1770	1930	1470	546	267	129	1020	1120	1290
MIN	222	260	238	77	124	120	283	138	70	106	97	199
MED	471	670	630	211	315	316	384	190	87	299	222	534
AC-FT	33950	43450	41530	29250	27060	28590	23040	11640	5370	24900	21000	34880
CFSM	17.2	22.7	21.0	14.8	15.2	14.5	12.1	5.90	2.81	12.6	10.6	18.3
IN.	19.84	25.39	24.27	17.09	15.81	16.70	13.46	6.80	3.14	14.55	12.27	20.38

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1915 - 2005, BY WATER YEAR (WY)#

MEAN	692	567	427	361	318	264	354	497	464	332	330	451
MAX	1326	1767	1081	975	944	673	655	867	764	718	767	966
(WY)	1975	1918	1931	1926	1993	1986	1949	1999	1951	1976	1972	2001
MIN	237	89.2	83.4	37.9	37.8	71.4	130	182	90.3	65.3	50.7	80.0
(WY)	1926	1974	1984	1950	1969	1969	1967	1998	2005	1958	1965	1965

See Period of Record; partial year was used in monthly statistics and breaks in record.

15072000 FISH CREEK NEAR KETCHIKAN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1915 - 2005#	
ANNUAL TOTAL	150498		163683			
ANNUAL MEAN	411		448		422	
HIGHEST ANNUAL MEAN					556	1992
LOWEST ANNUAL MEAN					302	1978
HIGHEST DAILY MEAN	2290	Jan 15	1930	Feb 1	4410	Oct 15 1961
LOWEST DAILY MEAN	57	Aug 26	70	Jun 22	20	Sep 9 1928
ANNUAL SEVEN-DAY MINIMUM	65	Aug 21	74	Jun 18	23	Sep 5 1928
MAXIMUM PEAK FLOW			2150	Feb 1	a5400	Oct 15 1961
MAXIMUM PEAK STAGE			3.36	Feb 1	b5.85	Oct 15 1961
INSTANTANEOUS LOW FLOW			c69	Jun 21	20	Sep 9 1928
ANNUAL RUNOFF (AC-FT)	298500		324700		306100	
ANNUAL RUNOFF (CFSM)	12.8		14.0		13.2	
ANNUAL RUNOFF (INCHES)	174.41		189.69		178.83	
10 PERCENT EXCEEDS	900		971		864	
50 PERCENT EXCEEDS	279		340		319	
90 PERCENT EXCEEDS	114		108		99	

\# See Period of Record; partial year was used in monthly statistics and breaks in record.
a From rating curve extended above 3,600 ft^3/s
b At site then in use
c June 21 to June 23

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.--September 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)
Nov. 03	1830	11900	15.35	Dec. 02	1800	*16900	*16.60
Nov. 21	0100	7170	13.77	Feb. 01	1500	10500	14.95

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75	1600	702	e60	4140	341	382	42	22	43	157	26
2	62	1030	6150	e50	972	439	319	45	20	36	89	26
3	53	5880	1660	e45	454	507	487	58	19	218	78	27
4	139	1720	425	e40	298	679	385	58	18	294	178	15
5	1540	470	217	e37	191	354	379	43	17	262	205	10
6	1420	256	151	e35	130	230	554	35	16	495	327	43
7	1090	182	106	e30	121	459	265	31	16	1060	190	68
8	959	142	94	e27	212	1030	231	27	15	293	105	37
9	357	114	139	e23	442	604	233	25	15	171	74	16
10	308	93	230	e20	1180	1100	391	23	15	636	53	10
11	266	79	248	e18	384	833	413	21	17	301	43	8
12	375	74	360	e18	231	343	277	22	17	133	38	7
13	1720	639	306	e19	154	189	192	24	17	75	34	11
14	357	1450	668	e20	127	131	152	29	19	209	32	10
15	248	755	487	e30	102	109	156	159	23	800	31	8
16	202	755	1610	e60	113	100	227	173	24	258	30	6
17	142	485	552	e400	131	84	165	126	20	133	29	9
18	108	246	1610	e250	146	69	125	67	17	264	31	326
19	82	194	2390	e230	125	e55	902	49	15	214	598	178
20	67	1110	792	e250	102	e52	389	45	15	174	204	50
21	112	2070	437	528	88	e54	241	60	14	139	189	28
22	828	314	243	887	85	67	170	57	14	142	1080	16
23	364	337	873	540	164	65	125	111	14	91	520	28
24	848	1360	1410	474	248	56	115	148	19	66	163	40
25	569	691	422	244	342	51	103	75	37	51	388	64
26	220	900	197	399	324	56	76	47	26	49	734	20
27	412	376	136	424	325	108	65	35	20	123	365	18
28	986	360	679	939	408	141	54	30	18	153	217	192
29	2420	345	278	658	---	111	40	28	21	105	128	175
30	709	417	133	1470	---	178	34	28	71	116	187	96
31	520	---	e80	1380	---	1360	---	25	---	213	341	--
TOTAL	17558	24444	23785	9605	11739	9955	7647	1746	611	7317	6838	1580
MEAN	566	815	767	310	419	321	255	56.3	20.4	236	221	52
MAX	2420	5880	6150	1470	4140	1360	902	173	71	1060	1080	326
MIN	53	74	80	18	85	51	34	21	14	36	29	6
AC-FT	34830	48480	47180	19050	23280	19750	15170	3460	1210	14510	13560	3134
CFSM	11.2	16.1	15.2	6.12	8.29	6.35	5.04	1.11	0.40	4.66	4.36	10.
IN.	12.91	17.97	17.49	7.06	8.63	7.32	5.62	1.28	0.45	5.38	5.03	11.6

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)#

MEAN	644	574	619	452	384	345	292	209	110	100	191	50
MAX	1123	996	1270	782	983	565	559	558	252	236	469	89
(WY)	2000	1992	1992	1992	1991	1994	1997	1999	1999	2005	2002	200
MIN	403	201	267	240	152	104	144	56.3	20.4	22.1	26.6	16
(WY)	2003	1997	1997	1998	1994	2002	2003	2005	2005	1993	1993	199

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

15081497 STANEY CREEK NEAR KLAWOCK—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1990 - 2005#	
ANNUAL TOTAL	136941		137046			
ANNUAL MEAN	374		375		368	
HIGHEST ANNUAL MEAN					506	1992
LOWEST ANNUAL MEAN					283	1995
HIGHEST DAILY MEAN	6150	Dec 2	6150	Dec 2	14900	Oct 26 1993
LOWEST DAILY MEAN	a15	Jun 23	b14	Jun 21	4.4	Jul 21 1993
ANNUAL SEVEN-DAY MINIMUM	15	Jun 23	15	Jun 18	6.0	Jul 15 1993
MAXIMUM PEAK FLOW			16900	Dec 2	c19800	Oct 26 1993
MAXIMUM PEAK STAGE			16.60	Dec 2	17.20	Oct 26 1993
INSTANTANEOUS LOW FLOW			d13	Jun 22	4.0	Jul 21 1993
ANNUAL RUNOFF (AC-FT)	271600		271800		266900	
ANNUAL RUNOFF (CFSM)	7.39		7.42		7.28	
ANNUAL RUNOFF (INCHES)	100.68		100.75		98.93	
10 PERCENT EXCEEDS	973		947		881	
50 PERCENT EXCEEDS	140		171		168	
90 PERCENT EXCEEDS	25		24		35	

\# See Period of Record; partial years used in monthly statistics
a June 23-26, 29-30, and July 1
b June 21-23
c From rating curve extended above 3300 ft^3/sec
d June 22-23

15081497 STANEY CREEK NEAR KLAWOCK—Continued

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.--No record from November 6-12, December 6-9, 26-27, 29-30, and February 5-7, 12-14 due to a 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 August 17. No variation was found in the temperature cross-section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE.--Maximum recorded, 26.0°C, June 29, 1990, but may have been higher during period of instrument malfunction July 9 to August 23, 1990; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE.--Maximum, 23.5°C, June 18; minimum, 0.0°C on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
AUG							
17...	0930	66.0	5.00	6.93	29	14.0	15.0
17...	0931	66.0	16.0	6.93	29	14.0	15.0
17...	0932	66.0	27.0	6.93	29	14.0	15.0
17...	0933	66.0	38.0	6.93	29	14.0	15.0
17...	0934	66.0	49.0	6.93	29	14.0	15.0
17...	0935	66.0	60.0	6.93	29	14.0	15.0

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	10.0	8.0	9.0	5.0	4.5	5.0	5.5	5.0	5.0	0.0	0.0	0.0
2	11.0	9.0	9.5	5.0	4.5	4.5	6.5	5.5	6.0	0.0	0.0	0.0
3	9.5	7.5	8.5	6.0	4.5	5.5	6.0	4.0	5.0	0.0	0.0	0.0
4	10.0	9.0	9.0	6.0	4.5	5.0	4.0	3.0	3.5	0.0	0.0	0.0
5	10.0	9.0	9.5	4.5	3.5	4.0	3.5	2.0	2.5	0.0	0.0	0.0
6	9.0	9.0	9.0	---	---	---	---	---	---	0.0	0.0	0.0
7	9.0	8.5	9.0	---	---	---	---	---	---	0.0	0.0	0.0
8	9.0	8.5	9.0	---	---	---	---	---	---	0.0	0.0	0.0
9	9.5	8.5	9.0	---	---	---	---	---	---	0.0	0.0	0.0
10	9.5	8.5	9.0	---	---	---	2.0	1.0	1.5	0.0	0.0	0.0
11	8.5	7.5	8.0	---	---	---	2.0	1.0	1.5	0.0	0.0	0.0
12	9.5	7.0	8.0	---	---	---	2.0	1.5	1.5	0.0	0.0	0.0
13	10.0	9.5	10.0	4.0	2.5	3.0	2.5	1.5	2.0	0.0	0.0	0.0
14	10.5	9.5	10.0	5.0	4.0	4.5	3.0	2.5	3.0	0.0	0.0	0.0
15	10.0	8.5	9.5	5.0	4.5	5.0	3.5	2.5	3.0	0.0	0.0	0.0
16	8.5	7.0	7.5	4.5	3.5	4.0	4.5	3.5	4.0	0.0	0.0	0.0
17	7.0	5.5	6.0	3.5	3.0	3.5	5.0	4.5	4.5	0.0	0.0	0.0
18	6.0	4.5	5.0	3.0	2.0	2.5	6.0	5.0	5.5	0.0	0.0	0.0
19	4.5	3.0	4.0	4.0	2.5	3.0	5.5	4.5	5.0	0.0	0.0	0.0
20	5.0	3.0	4.0	6.0	3.5	4.5	4.5	3.5	4.0	0.0	0.0	0.0
21	4.5	2.5	3.5	6.0	4.5	5.5	4.0	3.0	3.5	1.5	0.0	0.5
22	4.5	3.0	3.5	4.5	3.5	4.0	4.5	3.5	4.0	1.0	0.5	1.0
23	4.0	3.0	3.5	4.0	3.5	3.5	5.0	4.5	4.5	1.0	1.0	1.0
24	4.5	3.0	4.0	4.5	4.0	4.5	5.0	3.5	4.5	1.5	1.0	1.5
25	4.5	3.5	4.0	4.5	4.0	4.0	3.5	2.0	2.5	1.5	0.5	1.0
26	4.0	3.0	3.5	4.0	3.5	4.0	---	---	---	2.0	1.5	2.0
27	4.5	3.0	4.0	4.5	3.5	4.0	---	---	---	2.5	2.0	2.0
28	5.5	4.5	5.0	4.5	4.5	4.5	1.5	0.5	1.5	2.5	2.0	2.0
29	6.0	5.5	6.0	4.5	4.5	4.5	---	---	---	2.5	2.0	2.0
30	5.5	4.5	5.0	5.0	4.5	4.5	---	---	---	2.5	2.0	2.5
31	4.5	4.0	4.5	---	---	---	0.0	0.0	0.0	2.5	2.0	2.0
MONTH	11.0	2.5	6.7	---	---	---	---	---	---	2.5	0.0	0.6

15081497 STANEY CREEK NEAR KLAWOCK—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	2.0	2.0	3.5	2.5	3.0	3.0	2.0	2.5	11.0	7.5	9.0
2	2.5	2.0	2.5	4.0	3.0	3.5	3.0	1.5	2.5	11.0	8.5	9.5
3	2.5	2.0	2.0	3.0	3.0	3.0	4.0	2.0	3.0	11.0	8.5	9.5
4	2.5	1.0	2.0	3.5	3.0	3.5	4.0	2.5	3.5	12.0	7.5	9.5
5	---	---	---	3.5	2.5	3.0	4.5	3.0	4.0	14.0	7.5	10.0
6	---	---	---	3.0	2.0	2.5	5.0	3.0	4.0	15.0	7.0	11.0
7	---	---	---	4.0	3.0	3.5	5.5	3.5	4.5	15.5	8.5	12.0
8	0.5	0.0	0.0	4.5	4.0	4.0	5.5	3.0	4.5	16.0	8.5	12.5
9	1.0	0.5	1.0	5.0	4.0	4.5	5.5	3.5	4.5	17.0	9.5	13.5
10	1.5	1.0	1.5	5.5	5.0	5.0	4.5	3.5	4.0	17.0	10.5	14.5
11	1.5	0.0	1.0	5.0	4.5	4.5	5.5	3.5	4.5	15.5	13.0	14.0
12	---	---	---	5.5	4.5	4.5	5.0	3.0	4.0	13.0	11.5	12.5
13	---	---	---	5.5	3.5	4.5	4.5	3.0	4.0	15.5	11.0	13.0
14	---	0.0	---	5.0	3.5	4.0	5.5	2.5	4.0	15.0	12.0	13.5
15	2.0	0.0	1.0	5.0	3.5	4.0	5.0	3.5	4.0	12.5	10.0	11.0
16	1.5	0.5	1.0	4.0	2.0	3.0	6.5	4.0	5.0	12.0	8.5	10.5
17	1.5	0.5	1.0	3.5	1.0	2.0	7.0	3.5	5.0	14.0	9.0	11.0
18	2.0	1.0	1.5	2.5	0.5	1.5	6.0	3.5	5.0	14.0	9.0	11.5
19	1.5	0.5	1.0	0.5	0.0	0.0	5.5	5.0	5.0	14.5	10.0	12.0
20	1.5	0.0	0.5	0.0	0.0	0.0	7.0	5.0	6.0	13.0	10.0	11.5
21	2.0	0.5	1.5	1.5	0.0	0.5	8.5	6.0	7.0	13.0	10.5	11.5
22	2.0	1.0	1.5	4.0	1.0	2.5	9.5	5.0	7.0	14.5	9.0	11.0
23	2.0	1.0	1.5	3.5	0.5	2.0	11.0	5.5	8.0	11.5	9.0	10.0
24	1.5	0.5	1.0	3.5	0.0	1.5	12.5	6.5	9.5	11.5	9.0	10.5
25	2.0	1.0	1.5	3.5	0.0	2.0	11.5	8.0	9.5	14.0	8.5	11.5
26	3.0	1.5	2.0	7.0	3.0	4.5	14.5	8.5	11.0	15.5	10.5	13.0
27	2.5	1.5	2.0	5.5	3.5	4.5	15.0	9.0	12.0	16.0	11.5	13.0
28	3.5	2.0	2.5	4.5	2.5	3.5	13.5	8.5	11.0	17.5	10.5	14.0
29	---	---	---	5.0	2.5	4.0	13.5	7.5	10.5	14.5	11.5	13.0
30	---	---	---	4.5	3.0	3.5	10.0	7.5	8.5	18.0	12.0	14.5
31	---	---	---	3.5	3.0	3.0	---	---	---	16.5	12.0	14.5
MONTH	---	---	---	7.0	0.0	3.1	15.0	1.5	5.9	18.0	7.0	11.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	19.0	12.0	15.0	15.5	13.0	14.0	15.0	11.5	13.0	12.0	11.0	11.5
2	19.0	11.0	15.0	14.5	13.0	13.5	15.5	11.0	13.0	12.5	11.0	11.5
3	15.5	12.5	14.0	14.5	11.5	13.5	14.5	12.5	13.5	12.0	10.5	11.0
4	17.5	12.5	14.5	13.5	11.5	12.5	14.0	12.5	13.0	11.5	9.5	10.5
5	17.0	11.0	14.0	14.5	12.0	13.0	13.0	12.0	12.5	11.5	9.0	10.5
6	20.0	12.0	15.5	12.5	11.5	12.0	14.0	12.0	12.5	11.5	10.5	11.0
7	19.0	13.5	16.0	11.5	11.0	11.0	15.5	11.5	13.0	12.0	11.0	11.5
8	19.0	13.0	16.0	13.5	11.0	12.0	17.0	11.5	14.0	12.5	11.0	11.5
9	16.0	13.5	14.0	14.0	11.5	12.5	18.5	12.5	15.5	12.0	9.5	11.0
10	15.5	13.0	14.0	12.5	11.5	12.0	20.0	13.5	16.5	12.0	9.5	11.0
11	15.5	13.0	14.0	13.5	11.5	12.5	20.5	14.0	17.5	12.5	11.0	11.5
12	15.0	11.5	13.5	15.0	11.5	13.0	20.5	14.5	18.0	13.5	11.0	12.5
13	14.5	12.0	13.5	14.5	12.5	13.5	20.5	15.0	18.0	13.5	12.0	12.5
14	15.5	12.5	14.0	14.0	12.0	12.5	18.5	15.5	16.5	13.0	11.0	12.0
15	15.5	12.0	14.0	12.5	11.5	12.0	17.5	14.5	16.0	13.5	11.0	12.0
16	19.0	11.0	15.5	14.0	10.5	12.5	18.0	14.0	16.0	12.0	9.5	11.0
17	21.5	12.5	17.0	15.0	12.0	13.5	18.5	13.5	16.5	11.5	10.5	11.0
18	23.5	15.0	19.0	13.5	12.0	13.0	17.5	15.0	16.5	11.0	10.0	10.5
19	19.0	15.5	17.0	13.5	11.5	12.5	16.5	13.5	14.0	10.5	10.0	10.0
20	17.5	14.5	16.0	14.5	11.5	13.0	14.0	12.0	13.0	10.0	9.5	9.5
21	19.0	12.5	15.5	14.5	12.0	13.0	14.0	12.5	13.0	10.0	9.0	9.5
22	15.5	14.0	14.5	16.0	11.0	13.0	13.0	12.0	12.5	9.5	8.0	9.0
23	14.0	12.5	13.5	17.5	12.0	14.5	14.0	11.5	12.5	10.0	8.5	9.5
24	18.5	13.0	15.5	17.0	12.5	15.0	14.0	11.0	12.5	10.5	10.0	10.0
25	17.5	14.0	15.5	15.5	12.5	14.0	13.5	12.0	13.0	10.5	9.5	10.0
26	19.5	13.0	16.5	14.5	13.0	14.0	13.0	12.0	12.5	9.5	8.0	9.0
27	22.5	13.5	18.0	15.5	13.0	14.0	12.5	12.0	12.5	8.5	7.0	8.0
28	18.0	15.0	15.5	14.5	13.0	13.5	14.5	11.5	12.5	10.0	8.5	9.5
29	15.5	14.5	15.0	14.5	12.0	13.5	12.5	11.0	11.5	9.5	9.0	9.5
30	17.0	13.5	15.0	14.0	12.0	13.0	13.0	11.0	12.5	9.5	8.5	9.0
31	---	---	---	13.5	11.5	12.5	12.5	11.5	12.0	---	---	---
MONTH	23.5	11.0	15.2	17.5	10.5	13.0	20.5	11.0	14.0	13.5	7.0	10.6

15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK

LOCATION.--Lat 55°33'26", long 133°01'01", in NW¼ SW¼ NW¼ sec. 7, T. 73 S., R. 82 E. (Craig C-3 quad), Hydrologic Unit 19010103, on Prince of Wales Island, approximately 1.1 mi upstream from the mouth at Klawock Lake, and 2.9 mi east of the city of Klawock.

DRAINAGE AREA.--4.73 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--December 2000 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 400 ft above sea level, from topographic map.

REMARKS.--Records fair, except for estimated discharges and those above 180 ft^3/s, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	123	100	e4.0	211	38	33	5.8	2.6	13	28	38
2	5.3	76	284	e4.0	75	69	33	6.0	2.3	23	11	24
3	4.6	225	120	e4.0	40	76	37	6.9	2.0	47	9.4	19
4	52	127	36	e5.0	26	75	31	7.4	1.9	53	34	13
5	188	37	16	e5.0	15	35	56	6.5	1.8	47	37	9.6
6	140	18	11	e4.0	e14	22	62	5.7	1.6	39	97	50
7	101	12	e9.0	e4.0	13	37	29	5.0	1.5	29	45	129
8	129	8.9	e8.0	e4.0	29	78	21	4.5	1.4	15	14	70
9	33	7.3	19	e4.0	70	33	26	4.1	1.3	9.4	8.8	23
10	52	6.4	16	e3.0	88	104	43	3.8	3.0	72	6.4	12
11	26	5.7	23	e3.0	38	82	49	3.5	6.0	24	5.2	11
12	68	16	25	e2.0	20	30	33	3.4	4.8	11	4.3	9.2
13	179	113	33	e2.0	13	16	21	4.0	4.8	8.3	3.8	45
14	60	128	79	e3.0	13	11	16	26	4.6	46	3.4	20
15	48	82	66	e4.0	9.1	9.2	31	40	7.5	68	3.5	13
16	23	66	139	e5.0	11	7.9	33	18	7.1	20	3.3	9.7
17	12	32	34	e90	12	6.8	20	18	4.7	23	3.0	43
18	8.1	14	131	e70	14	5.9	14	9.0	3.4	65	5.9	220
19	6.3	16	126	72	10	4.4	73	7.8	3.0	28	136	85
20	5.3	145	101	24	8.3	e3.3	39	7.2	3.5	18	31	62
21	8.5	131	39	64	7.3	e3.0	27	7.2	2.7	11	45	31
22	49	23	27	85	7.2	10	18	5.9	2.3	8.6	74	21
23	20	41	74	55	15	7.7	15	6.7	3.6	7.6	28	92
24	81	90	109	62	35	6.5	15	9.0	6.8	6.2	13	123
25	34	61	35	23	35	6.1	13	6.5	5.0	5.2	62	83
26	12	54	14	26	47	6.6	12	5.0	4.0	8.5	57	22
27	47	62	11	37	44	19	11	4.0	3.2	53	35	55
28	74	46	45	91	51	18	9.0	3.5	3.3	35	20	135
29	170	38	15	55	---	16	7.1	3.3	7.5	14	14	219
30	68	89	e10	110	---	31	6.0	3.7	12	35	49	91
31	54	---	e7.0	119	---	121	---	3.0	---	52	42	---
TOTAL	1764.6	1893.3	1762.0	1043.0	970.9	988.4	833.1	250.4	119.2	894.8	929.0	1777.5
MEAN	56.9	63.1	56.8	33.6	34.7	31.9	27.8	8.08	3.97	28.9	30.0	59.2
MAX	188	225	284	119	211	121	73	40	12	72	136	220
MIN	4.6	5.7	7.0	2.0	7.2	3.0	6.0	3.0	1.3	5.2	3.0	9.2
MED	48	50	34	5.0	18	18	26	5.9	3.3	23	20	40
AC-FT	3500	3760	3490	2070	1930	1960	1650	497	236	1770	1840	3530
CFSM	12.0	13.3	12.0	7.11	7.33	6.74	5.87	1.71	0.84	6.10	6.34	12.5
IN.	13.88	14.89	13.86	8.20	7.64	7.77	6.55	1.97	0.94	7.04	7.31	13.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)#

MEAN	51.8	46.1	59.1	46.2	30.8	32.4	25.7	27.8	22.4	22.5	29.5	60.9
MAX	56.9	63.1	79.0	59.4	40.6	44.1	36.5	59.9	69.3	32.4	61.2	82.0
(WY)	2005	2005	2004	2001	2002	2004	2001	2001	2001	2001	2002	2003
MIN	39.2	37.3	46.8	33.6	16.1	13.3	13.5	8.08	3.97	11.0	12.4	45.8
(WY)	2003	2002	2002	2005	2003	2002	2003	2005	2005	2003	2004	2004

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

15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005#	
ANNUAL TOTAL	13043.8		132227.2			
ANNUAL MEAN	35.6		36.3		35.5	
HIGHEST ANNUAL MEAN					37.1	2002
LOWEST ANNUAL MEAN					32.8	2003
HIGHEST DAILY MEAN	284	Dec 2	284	Dec 2	404	Oct 25 2003
LOWEST DAILY MEAN	a1.3	Jun 24	1.3	Jun 9	b1.3	Jun 24 2004
ANNUAL SEVEN-DAY MINIMUM	1.5	Jun 20	1.6	Jun 3	1.5	Jun 20 2004
MAXIMUM PEAK FLOW			593	Dec 2	745	Oct 26 2003
MAXIMUM PEAK STAGE			10.06	Dec 2	10.40	Oct 26 2003
INSTANTANEOUS LOW FLOW			c1.2	Jun 8	d1.2	Jun 23 2004
ANNUAL RUNOFF (AC-FT)	25870		26240		25700	
ANNUAL RUNOFF (CFSM)	7.53		7.66		7.50	
ANNUAL RUNOFF (INCHES)	102.59		104.03		101.91	
10 PERCENT EXCEEDS	101		90		90	
50 PERCENT EXCEEDS	14		20		16	
90 PERCENT EXCEEDS	3.5		3.8		4.0	

\# See Period of Record, partial years used in monthly statistics
a June 24-25
b June 24-25, 2004, June 9, 2005
c June 8-9
d June 23-26, 2004 and June 8-9, 2005

15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2004 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 2004 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder since May 2004, recording interval 15-minutes.

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 June 20 and August 17. A variation of 0.1°C was found in the temperature cross sections. The variation found between mean stream temperature and sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 18.5°C, June 20, 2004; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 16.5°C, August 9-11; minimum, 0.0°C, on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Location in X-sect. looking dwnstrm ft from l bank (00009)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Temper-ature, air, deg C (00020)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
JUN									
20...	1621	2.00	55	7.9	13.5	18.5	755	10.4	101
20...	1622	7.00	55	7.9	13.5	18.5	755	10.3	100
20...	1623	12.0	55	7.9	13.5	18.5	755	10.4	101
20...	1624	17.0	55	7.9	13.5	18.5	755	10.4	101
20...	1625	22.0	55	7.9	13.5	18.5	755	10.4	101
AUG									
17...	1550	2.00	65	7.7	14.0	17.5	754	9.7	95
17...	1551	4.00	65	7.6	14.0	17.5	754	9.7	95
17...	1552	6.00	65	7.6	14.0	17.5	754	9.7	95
17...	1553	8.00	65	7.7	14.0	17.5	754	9.6	94
17...	1554	10.0	64	7.7	14.0	17.5	754	9.6	94

Date	Time	Medium code	Sample type	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Stream width, feet (00004)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	pH, water, unfltrd field, std units (00400)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	Temper-ature, air, deg C (00020)
DEC													
09...	1445	9	9	7.40	27	10	26.5	737	13.5	98	7.2	34	1.5
FEB													
24...	1330	9	9	7.40	25	10	44.5	750	13.1	96	7.6	28	.5
APR													
13...	1430	9	9	7.26	19	10	35.0	750	11.3	88	7.2	25	4.0
JUN													
20...	1645	9	9	6.79	3.0	10	24.0	755	10.4	101	7.9	55	18.5
AUG													
17...	1545	9	9	6.78	3.2	10	12.0	754	9.7	95	7.6	65	17.5

Date	Temper-ature, water, deg C (00010)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Calcium water unfltrd recover-able, mg/L (00916)	Magnes-ium, water, fltrd, mg/L (00925)	Magnes-ium, water, unfltrd recover-able, mg/L (00927)	Potas-sium, water, fltrd, mg/L (00935)	Sodium, water, fltrd, mg/L (00930)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)
DEC													
09...	1.0	12	3.66	--	.609	--	.17	2.19	12	14	4.63	<.1	2.28
FEB													
24...	2.0	10	3.29	--	.460	--	E.16	1.59	10	11	2.03	<.1	2.32
APR													
13...	4.0	9	2.84	--	.425	--	.23	1.51	7	8	2.12	<.1	1.75
JUN													
20...	13.5	23	7.83	7.88	.895	.84	E.15	1.81	22	26	1.74	<.1	3.04
AUG													
17...	14.0	31	10.5	10.6	1.07	1.08	.19	1.96	25	31	1.81	<.1	3.56

15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Sulfate water, fltrd, mg/L (00945)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Residue on evap. at 180degC wat flt mg/L (70300)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia water, fltrd, mg/L as N (00608)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Nitrite water, fltrd, mg/L as N (00613)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Phos-phorus, water, fltrd, mg/L (00666)	Phos-phorus, water, unfltrd mg/L (00665)	Total carbon, suspnd sedimnt total, mg/L (00694)
DEC													
09...	.9	21	31	E.05	E.10	<.010	<.016	E.001	--	<.006	E.003	E.004	--
FEB													
24...	.6	--	27	.10	.10	<.010	E.009	.002	--	<.006	E.004	E.003	--
APR													
13...	.8	14	24	E.05	.10	E.006	.047	E.001	--	<.006	<.004	E.004	--
JUN													
20...	1.2	--	34	E.08	.10	<.010	.018	<.002	<.02	<.006	.006	.005	.1
AUG													
17...	.9	36	50	.10	.13	<.010	.044	E.001	<.02	<.006	E.003	E.003	<.1

Date	Organic carbon, water, fltrd, mg/L (00681)	Alum-inum, water, fltrd, ug/L (01106)	Alum-inum, water, unfltrd recover -able, ug/L (01105)	Anti-mony, water, fltrd, ug/L (01095)	Anti-mony, water, unfltrd ug/L (01097)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Barium, water, unfltrd recover -able, ug/L (01007)	Beryll-ium, water, fltrd, ug/L (01010)	Beryll-ium, water, unfltrd recover -able, ug/L (01012)	Boron, water, fltrd, ug/L (01020)	Boron, water, unfltrd recover -able, ug/L (01022)	Cadmium water, fltrd, ug/L (01025)
DEC													
09...	4.2	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	5.4	--	--	--	--	--	--	--	--	--	--	--	--
APR													
13...	4.5	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
20...	3.9	47	52	<.20	<.2	E.1	6	6	<.06	<.06	E7	<8	<.04
AUG													
17...	3.5	50	67	<.20	<.2	E.1	7	7	<.06	<.06	E7	E5	<.04

Date	Cadmium water, unfltrd ug/L (01027)	Chrom-ium, water, fltrd, ug/L (01030)	Chrom-ium, water, unfltrd recover -able, ug/L (01034)	Cobalt water, fltrd, ug/L (01035)	Cobalt water, unfltrd recover -able, ug/L (01037)	Copper, water, fltrd, ug/L (01040)	Copper, water, unfltrd recover -able, ug/L (01042)	Iron, water, fltrd, ug/L (01046)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, fltrd, ug/L (01049)	Lead, water, unfltrd recover -able, ug/L (01051)	Lithium water, fltrd, ug/L (01130)	Lithium water unfltrd recover -able, ug/L (01132)
DEC													
09...	--	--	--	--	--	--	--	111	--	--	--	--	--
FEB													
24...	--	--	--	--	--	--	--	120	--	--	--	--	--
APR													
13...	--	--	--	--	--	--	--	75	--	--	--	--	--
JUN													
20...	<.04	<.8	<.8	.033	.056	.7	.8	84	110	<.08	<.06	<.6	<.6
AUG													
17...	<.04	<.8	<.8	.046	.062	.5	E.5	84	120	E.05	E.05	<.6	<.6

Date	Mangan-ese, water, fltrd, ug/L (01056)	Mangan-ese, water, unfltrd recover -able, ug/L (01055)	Mercury water, fltrd, ug/L (71890)	Mercury water, unfltrd recover -able, ug/L (71900)	Molyb-denum, water, fltrd, ug/L (01060)	Molyb-denum, water, unfltrd recover -able, ug/L (01062)	Nickel, water, fltrd, ug/L (01065)	Nickel, water, unfltrd recover -able, ug/L (01067)	Selen-ium, water, fltrd, ug/L (01145)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, fltrd, ug/L (01075)	Silver, water, unfltrd recover -able, ug/L (01077)	Stront-ium, water, fltrd, ug/L (01080)
DEC													
09...	4.7	--	--	--	--	--	--	--	--	--	--	--	--
FEB													
24...	1.6	--	--	--	--	--	--	--	--	--	--	--	--
APR													
13...	1.3	--	--	--	--	--	--	--	--	--	--	--	--
JUN													
20...	1.5	3	<.01	<.01	<.4	<.2	.50	N	<.4	E.3	<.2	<.16	22
AUG													
17...	1.8	5	<.01	E.01	<.4	<.2	.38	.41	<.4	.4	<.2	<.16	28

Date	Stront-ium, water, unfltrd recover -able, ug/L (01082)	Thall-ium, water, fltrd, ug/L (01057)	Thall-ium, water, unfltrd ug/L (01059)	Vanad-ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Zinc, water, unfltrd recover -able, ug/L (01092)	Uranium natural water, fltrd, ug/L (22703)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Sampler type, code (84164)
DEC										
09...	--	--	--	--	--	--	--	1	.07	3044
FEB										
24...	--	--	--	--	--	--	--	--	--	3044
APR										
13...	--	--	--	--	--	--	--	1	.05	3044
JUN										
20...	21	<.04	<.2	.4	1.5	3	<.04	1	.01	3044
AUG										
17...	27	<.04	<.2	.4	1.7	7	<.04	<1	--	3044

E Estimated

15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.5	8.5	9.0	4.5	4.0	4.5	5.5	4.5	5.0	0.0	0.0	0.0
2	9.5	8.5	9.0	4.5	3.5	4.0	6.0	5.0	5.5	0.0	0.0	0.0
3	9.0	8.0	8.5	6.0	4.0	5.0	5.0	3.0	4.0	0.0	0.0	0.0
4	10.0	9.0	9.5	5.0	3.5	4.0	3.0	1.5	2.5	0.0	0.0	0.0
5	10.0	9.0	10.0	3.5	2.5	3.0	1.5	1.0	1.0	0.0	0.0	0.0
6	9.0	8.5	9.0	2.5	1.5	2.0	1.0	0.5	1.0	0.0	0.0	0.0
7	9.0	8.5	8.5	2.0	2.0	2.0	0.5	0.0	0.0	0.0	0.0	0.0
8	9.0	8.0	8.5	2.0	1.5	1.5	0.5	0.0	0.0	0.0	0.0	0.0
9	9.5	8.5	9.0	1.5	1.0	1.0	1.5	0.5	1.0	0.0	0.0	0.0
10	9.5	8.0	9.0	1.0	0.5	1.0	1.5	0.5	1.0	0.0	0.0	0.0
11	8.5	7.5	8.0	1.0	0.0	0.5	1.5	0.5	1.0	0.0	0.0	0.0
12	10.5	7.5	8.5	3.0	1.0	2.0	1.5	1.0	1.5	0.0	0.0	0.0
13	10.5	10.0	10.5	4.5	3.0	3.5	2.5	1.5	2.0	0.0	0.0	0.0
14	10.5	9.5	10.5	4.5	4.0	4.5	2.5	2.0	2.5	0.0	0.0	0.0
15	9.5	8.0	9.0	4.5	4.0	4.5	3.5	2.0	3.0	0.0	0.0	0.0
16	8.0	6.5	7.0	4.0	3.0	3.5	4.5	3.5	4.0	0.0	0.0	0.0
17	6.5	5.0	6.0	3.0	2.0	2.5	5.0	4.0	4.5	0.0	0.0	0.0
18	5.5	4.0	4.5	2.5	1.5	2.0	6.5	5.0	6.0	1.0	0.0	0.5
19	4.0	2.5	3.0	4.0	2.5	3.5	5.5	3.5	4.0	1.5	1.0	1.0
20	3.5	3.0	3.0	6.5	4.0	5.5	3.5	2.5	3.0	1.0	0.5	1.0
21	4.0	2.5	3.5	6.0	4.0	5.0	3.0	2.0	2.5	2.0	1.0	1.5
22	4.0	3.0	4.0	4.0	3.0	3.5	4.5	3.0	3.5	2.0	1.5	2.0
23	3.0	2.5	3.0	4.5	3.0	3.5	5.0	4.5	5.0	2.0	1.5	2.0
24	4.5	3.0	4.0	5.0	4.0	4.5	5.0	2.5	4.0	2.0	1.5	1.5
25	4.5	3.5	4.0	4.0	2.5	3.0	2.5	1.0	1.5	2.0	1.0	1.5
26	3.5	2.5	3.0	3.5	3.0	3.0	1.5	0.0	0.5	3.0	2.0	2.5
27	5.5	3.0	4.5	4.0	3.5	3.5	1.5	0.0	0.5	3.0	3.0	3.0
28	6.0	5.0	5.5	4.0	4.0	4.0	2.0	1.5	1.5	3.0	2.5	3.0
29	6.0	5.0	5.5	4.0	3.5	4.0	1.5	0.0	0.5	3.0	2.5	2.5
30	5.0	3.0	4.0	4.5	4.0	4.5	0.0	0.0	0.0	3.5	2.5	3.0
31	4.0	3.0	3.5	---	---	---	0.0	0.0	0.0	3.0	2.0	2.5
MONTH	10.5	2.5	6.6	6.5	0.0	3.3	6.5	0.0	2.3	3.5	0.0	0.9

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	2.5	3.0	4.0	3.0	3.5	2.0	1.0	1.5	8.0	7.0	7.5
2	3.0	2.0	2.5	4.0	3.0	3.5	2.0	0.5	1.5	8.5	7.5	8.0
3	2.5	2.0	2.5	3.5	3.0	3.0	3.0	1.5	2.0	9.0	8.0	8.5
4	2.5	0.5	1.0	3.5	3.0	3.5	3.5	2.0	2.5	9.0	7.0	8.0
5	0.5	0.0	0.0	3.5	2.5	3.0	3.5	2.5	3.0	9.5	8.0	8.5
6	0.0	0.0	0.0	3.5	2.0	3.0	4.5	2.5	3.5	9.5	6.5	8.0
7	0.0	0.0	0.0	4.5	3.5	4.0	5.0	3.5	4.0	10.5	8.5	9.5
8	1.0	0.0	0.5	5.0	4.5	4.5	5.0	3.5	4.0	11.0	8.5	9.5
9	1.5	1.0	1.5	5.5	4.5	5.0	4.5	3.5	4.0	12.0	9.0	10.5
10	2.0	1.5	1.5	6.0	4.5	5.5	4.0	3.0	3.5	12.0	9.5	11.0
11	1.5	0.0	0.5	5.0	4.5	4.5	3.5	2.5	3.0	12.0	11.0	11.5
12	0.5	0.0	0.0	5.0	4.5	4.5	4.5	2.5	3.5	11.0	10.5	10.5
13	0.5	0.0	0.0	5.5	3.5	4.5	4.5	2.5	3.5	11.0	10.0	10.5
14	0.0	0.0	0.0	4.5	3.0	4.0	4.5	2.5	3.5	11.0	9.0	10.0
15	1.0	0.0	0.5	4.5	3.0	4.0	4.0	3.0	3.5	10.5	8.5	9.5
16	1.0	0.5	1.0	3.0	2.0	2.5	6.0	3.5	4.5	10.5	8.5	9.5
17	1.0	0.5	1.0	2.0	1.5	2.0	6.0	3.5	5.0	11.0	8.5	10.0
18	1.0	1.0	1.0	1.5	0.5	1.0	5.5	4.0	5.0	11.5	9.0	10.5
19	1.0	0.0	0.5	0.5	0.0	0.0	6.0	5.0	5.5	11.0	9.5	10.5
20	0.5	0.0	0.5	0.0	0.0	0.0	6.5	5.0	6.0	10.5	9.5	10.0
21	1.5	0.5	1.0	0.0	0.0	0.0	7.0	6.0	6.5	10.5	9.5	10.0
22	1.5	1.0	1.5	1.5	0.0	1.0	8.0	4.5	6.0	11.0	9.0	10.0
23	1.5	1.0	1.5	2.0	0.5	1.0	9.5	5.5	7.5	10.0	9.0	9.5
24	2.0	1.0	1.5	1.5	0.5	1.5	11.5	7.5	9.0	10.5	9.0	9.5
25	2.0	1.0	1.5	3.0	1.5	2.0	9.5	8.5	8.5	11.0	9.0	10.0
26	2.5	2.0	2.0	4.5	3.0	3.5	10.5	7.5	9.0	12.5	10.0	11.5
27	2.5	1.5	2.0	4.0	2.5	3.5	11.5	9.0	10.0	11.5	10.5	11.0
28	3.5	2.5	3.0	3.5	2.0	2.5	10.5	8.5	9.5	11.5	9.5	10.5
29	---	---	---	3.0	2.0	2.5	9.5	7.5	8.5	11.0	10.0	10.5
30	---	---	---	3.0	2.0	2.5	8.0	7.5	8.0	12.0	10.0	11.0
31	---	---	---	3.0	2.0	2.5	---	---	---	12.0	10.0	11.0
MONTH	3.5	0.0	1.1	6.0	0.0	2.8	11.5	0.5	5.2	12.5	6.5	9.9

15081614 HALFMILE CREEK ABOVE DIVERSION NEAR KLAWOCK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.0	10.5	11.5	12.0	11.5	11.5	14.0	11.5	13.0	12.0	11.5	11.5
2	12.0	9.0	10.5	12.0	11.0	11.5	14.0	12.0	13.0	12.0	11.0	11.5
3	11.0	9.5	10.5	12.0	11.5	12.0	14.0	13.0	13.0	12.0	10.5	11.5
4	11.5	10.0	10.5	13.5	11.5	12.5	13.0	12.0	12.5	12.0	9.5	10.5
5	11.5	8.5	10.0	13.0	12.0	12.5	12.5	12.0	12.5	12.0	10.5	11.0
6	12.0	9.0	10.5	12.5	11.5	12.0	13.0	12.0	12.5	12.0	11.5	11.5
7	12.5	10.0	11.0	12.0	11.0	11.5	14.5	12.0	13.0	12.0	11.5	12.0
8	12.5	9.5	11.0	13.0	11.5	12.0	16.0	12.5	14.0	12.0	11.0	11.5
9	11.0	9.5	10.5	13.0	12.0	12.5	16.5	13.0	15.0	12.5	10.0	11.0
10	11.0	10.0	10.5	13.0	11.5	12.5	16.5	14.5	15.5	12.0	10.5	11.5
11	11.0	9.5	10.0	14.0	12.0	13.0	16.5	14.5	15.5	12.5	12.0	12.0
12	11.0	9.0	10.0	14.0	12.0	13.0	16.0	14.0	15.0	12.5	11.5	12.0
13	11.0	9.5	10.0	13.5	12.5	12.5	16.0	14.5	15.0	12.0	12.0	12.0
14	11.5	10.0	10.5	12.5	11.5	12.0	15.0	14.0	14.5	12.0	11.5	12.0
15	11.0	9.5	10.5	13.0	12.0	12.5	14.5	13.5	14.0	12.0	11.0	11.5
16	13.0	9.0	11.0	13.5	11.0	12.5	14.5	13.0	13.5	11.0	10.0	10.5
17	15.0	11.5	13.0	13.0	12.0	12.5	14.0	12.5	13.0	11.0	10.5	10.5
18	16.0	13.0	14.5	12.5	11.5	12.0	14.0	13.5	13.5	11.0	10.5	10.5
19	14.5	13.0	13.5	13.0	11.5	12.5	15.0	13.0	14.0	10.5	10.0	10.0
20	13.0	12.0	12.5	13.5	12.0	13.0	14.0	13.0	13.5	10.5	9.0	10.0
21	12.5	11.0	12.0	13.5	12.5	13.0	13.5	12.0	13.0	10.0	9.0	9.5
22	11.5	11.0	11.5	13.0	12.0	12.5	13.5	12.0	13.0	9.5	8.5	9.0
23	11.5	10.5	11.0	13.5	12.5	13.0	14.5	12.0	13.0	10.5	9.5	10.0
24	12.5	11.0	11.5	14.0	12.5	13.5	14.5	12.0	13.0	11.0	10.0	10.5
25	13.0	11.5	12.0	13.5	12.5	13.0	14.0	13.0	13.5	11.0	9.5	10.5
26	14.5	11.0	12.5	13.0	12.5	13.0	13.5	12.5	13.0	9.5	8.0	9.0
27	14.5	11.5	13.0	13.5	12.5	13.0	13.5	12.0	13.0	9.5	7.5	8.0
28	13.5	13.0	13.0	13.5	12.5	13.0	14.0	12.0	13.0	10.0	9.5	9.5
29	13.0	12.0	12.5	13.5	12.5	13.0	12.5	11.5	12.0	9.5	8.5	9.0
30	12.5	11.5	12.0	13.0	12.0	12.5	12.5	12.0	12.0	9.0	8.0	9.0
31	---	---	---	13.5	11.5	12.5	12.0	11.5	12.0	---	---	---
MONTH	16.0	8.5	11.4	14.0	11.0	12.5	16.5	11.5	13.4	12.5	7.5	10.6

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 fair 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 08	0700	517	4.54	Dec 16	0615	*686	*5.04
Oct 31	2330	459	4.35	Feb 01	1300	453	4.33
Nov 03	2030	562	4.68	Mar 03	1730	592	4.77
Nov 14	0515	514	4.53	Mar 31	0215	606	4.81
Dec 02	1830	483	4.43				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.5	235	33	e11	262	71	56	13	7.2	4.6	23	31
2	8.2	93	189	e10	95	98	119	13	6.5	5.4	14	28
3	7.3	273	122	9.6	45	285	181	14	6.1	16	13	33
4	32	236	51	8.1	34	215	106	13	6.1	20	14	22
5	180	78	32	7.7	25	80	196	11	5.4	27	11	17
6	189	40	24	7.2	18	56	114	9.9	5.1	34	11	18
7	133	29	20	e5.7	15	64	53	9.1	4.6	26	12	23
8	445	23	17	e5.0	17	139	41	8.5	4.4	20	9.8	29
9	143	19	36	e4.5	39	67	39	8.0	4.3	19	8.4	21
10	59	17	36	e4.0	95	101	47	7.5	6.1	32	7.3	17
11	40	15	29	e3.6	49	67	49	7.2	5.4	22	6.3	14
12	57	20	24	e3.4	35	39	49	7.2	5.8	15	5.2	12
13	122	156	34	e3.4	23	28	38	16	6.1	12	4.3	11
14	55	268	46	e3.7	18	22	36	80	8.0	39	4.0	10
15	35	67	67	e4.5	15	19	68	40	6.8	53	4.4	9.8
16	24	53	273	e5.7	15	18	80	29	6.6	29	4.7	8.7
17	19	40	67	99	15	15	44	30	5.4	19	4.5	8.4
18	15	29	115	39	14	13	33	20	4.7	15	4.9	40
19	13	23	151	35	13	11	62	17	4.4	13	20	47
20	11	33	58	22	11	9.7	49	30	4.3	11	12	49
21	12	74	38	144	10	12	45	101	3.9	10	12	39
22	38	33	27	191	10	25	36	35	3.7	9.8	23	24
23	22	34	30	92	13	17	31	29	3.9	8.5	22	19
24	84	53	47	56	16	13	30	29	4.4	7.5	14	16
25	46	51	32	37	23	18	28	24	4.3	6.7	12	15
26	26	51	22	67	50	53	25	17	4.0	6.7	26	13
27	26	33	17	69	42	37	23	13	3.9	8.0	53	29
28	44	27	29	128	52	28	20	11	3.7	8.5	68	180
29	170	90	23	67	---	26	16	9.8	3.8	7.4	30	106
30	65	41	16	181	---	47	14	8.9	4.6	9.1	27	54
31	96	---	e12	138	---	231	---	8.1	---	40	35	---
TOTAL	2226.0	2234	1717	1462.1	1069	1924.7	1728	669.2	153.5	554.2	515.8	943.9
MEAN	71.8	74.5	55.4	47.2	38.2	62.1	57.6	21.6	5.12	17.9	16.6	31.5
MAX	445	273	273	191	262	285	196	101	8.0	53	68	180
MIN	7.3	15	12	3.4	10	9.7	14	7.2	3.7	4.6	4.0	8.4
AC-FT	4420	4430	3410	2900	2120	3820	3430	1330	304	1100	1020	1870
CFSM	12.2	12.6	9.39	7.99	6.47	10.5	9.76	3.66	0.87	3.03	2.82	5.33
IN.	14.04	14.09	10.83	9.22	6.74	12.14	10.90	4.22	0.97	3.49	3.25	5.95

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005, BY WATER YEAR (WY)#

MEAN	70.0	66.1	60.5	50.0	45.1	39.4	48.0	42.0	25.5	13.1	15.3	32.6
MAX	163	166	142	128	117	86.3	122	99.1	56.1	31.0	50.9	93.6
(WY)	1978	2000	2004	1992	1998	1984	1980	1999	1950	1991	2001	2001
MIN	23.0	17.1	8.29	3.00	5.00	10.1	19.1	11.4	5.12	2.66	1.81	2.69
(WY)	2003	1966	1984	1950	1950	1956	1967	2004	2005	1958	1993	1965

\# See Period of Record; partial year was used in monthly statistics.
e Estimated

15085l00 OLD TOM CREEK NEAR KASAAN—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1949 - 2005#	
ANNUAL TOTAL	14309.3		15197.4			
ANNUAL MEAN	39.1		41.6		42.3	
HIGHEST ANNUAL MEAN					63.1	2000
LOWEST ANNUAL MEAN					25.2	1951
HIGHEST DAILY MEAN	445	Oct 8	445	Oct 8	858	Oct 23 1990
LOWEST DAILY MEAN	a1.9	Aug 15	b3.4	Jan 12	0.28	Nov 14 1965
ANNUAL SEVEN-DAY MINIMUM	2.0	Aug 13	3.9	Jan 9	0.55	Nov 13 1965
MAXIMUM PEAK FLOW			686	Dec 16	c1490	Apr 16 1952
MAXIMUM PEAK STAGE			5.04	Dec 16	6.96	Apr 16 1952
INSTANTANEOUS LOW FLOW					0.16	Nov 15 1965
ANNUAL RUNOFF (AC-FT)	28380		30140		30610	
ANNUAL RUNOFF (CFSM)	6.63		7.06		7.16	
ANNUAL RUNOFF (INCHES)	90.22		95.82		97.31	
10 PERCENT EXCEEDS	94		100		95	
50 PERCENT EXCEEDS	20		23		24	
90 PERCENT EXCEEDS	3.7		5.4		6.5	

\# See Period of Record; partial year was used in monthly statistics.
a Aug. 15, 16, and 18
b Jan. 12 and 13
c From rating curve extended above 330 ft^3/s

15085l00 OLD TOM CREEK NEAR KASAAN—Continued

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.--Record missing from December 2-3, 7-8, and January 17-21 due to faulty probe. 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 August 16. No 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 DAILY RECORD.--
WATER TEMPERATURE: Maximum, 18.5°C, July 3, 1998, and June 23, 2004; minimum, 0.0°C, on many days during most winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 17.5°C, August 13; minimum, 0.0°C, on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
AUG								
16...	0915	23.9	2.00	1.71	4.5	10	14.1	15.2
16...	0916	23.9	6.00	1.71	4.5	10	14.1	15.2
16...	0917	23.9	10.0	1.71	4.5	10	14.1	15.2
16...	0918	23.9	14.0	1.71	4.5	10	14.1	15.2
16...	0919	23.9	18.0	1.71	4.5	10	14.1	15.2
16...	0920	23.9	22.0	1.71	4.5	10	14.1	15.2

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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	5.5	6.0	5.5	5.0	5.0	0.0	0.0	0.0
2	10.0	8.5	9.0	6.0	5.5	5.5	---	5.5	---	0.0	0.0	0.0
3	9.0	8.5	9.0	6.5	5.5	6.0	---	---	---	0.5	0.0	0.5
4	10.0	9.0	9.5	6.5	5.0	5.5	4.0	2.5	3.5	1.0	0.5	1.0
5	10.0	9.5	10.0	5.5	4.5	5.0	3.0	2.5	3.0	1.5	1.0	1.0
6	10.0	9.0	9.5	4.5	4.0	4.0	2.5	2.0	2.5	1.5	0.0	1.0
7	9.5	9.0	9.5	4.0	3.5	4.0	---	---	---	0.0	0.0	0.0
8	9.0	9.0	9.0	4.0	3.0	3.5	2.0	---	---	0.0	0.0	0.0
9	9.5	9.0	9.5	3.5	3.0	3.0	2.5	2.0	2.5	0.0	0.0	0.0
10	9.5	9.0	9.5	3.0	2.5	3.0	3.0	2.5	2.5	0.0	0.0	0.0
11	9.5	9.0	9.0	3.0	2.5	2.5	3.0	2.5	3.0	0.0	0.0	0.0
12	10.0	9.0	9.0	4.0	2.5	3.5	2.5	2.5	2.5	0.0	0.0	0.0
13	10.5	10.0	10.0	5.5	4.0	4.5	3.0	2.5	3.0	0.0	0.0	0.0
14	10.5	10.0	10.0	5.5	5.0	5.5	3.5	3.0	3.5	0.0	0.0	0.0
15	10.0	9.0	9.5	5.5	5.0	5.5	4.0	3.0	3.5	0.0	0.0	0.0
16	9.0	8.0	8.0	5.0	4.5	4.5	4.5	4.0	4.5	0.0	0.0	0.0
17	8.0	7.0	7.0	4.5	4.0	4.0	4.5	4.5	4.5	---	0.0	---
18	7.0	6.0	6.5	4.0	3.5	3.5	5.5	4.5	5.0	---	---	---
19	6.0	5.0	5.5	4.5	3.5	4.0	5.5	4.5	4.5	---	---	---
20	5.0	4.5	5.0	6.0	4.5	5.0	4.5	4.0	4.0	---	---	---
21	5.5	4.5	5.0	6.0	4.5	5.5	4.0	3.5	3.5	---	---	---
22	6.0	5.0	5.5	4.5	4.0	4.5	4.0	3.5	4.0	2.5	2.0	2.5
23	5.5	4.5	5.0	4.5	4.0	4.0	4.5	4.0	4.5	2.5	2.0	2.5
24	6.0	4.5	5.5	4.5	4.5	4.5	5.0	3.5	4.5	3.0	2.0	2.5
25	6.0	5.5	6.0	4.5	4.0	4.5	3.5	2.5	3.0	2.5	2.0	2.5
26	5.5	5.0	5.0	4.5	4.0	4.0	2.5	1.5	2.0	3.5	2.5	3.0
27	6.0	5.0	5.5	4.5	4.0	4.5	2.5	1.5	2.0	3.5	3.0	3.5
28	6.5	5.5	6.0	4.5	4.0	4.5	2.5	2.0	2.5	3.5	3.0	3.0
29	7.0	6.0	6.5	5.0	4.5	5.0	2.5	1.5	2.0	3.0	3.0	3.0
30	6.5	5.5	6.0	5.0	4.5	5.0	1.5	0.0	1.0	3.5	3.0	3.5
31	5.5	5.0	5.5	---	---	---	0.0	0.0	0.0	3.5	3.0	3.0
MONTH	10.5	4.5	7.5	6.5	2.5	4.5	---	---	---	---	---	---

15085100 OLD TOM CREEK NEAR KASAAN—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	3.0	3.0	3.5	3.0	3.0	3.5	3.0	3.0	8.0	6.5	7.0
2	3.5	3.0	3.0	3.5	3.0	3.0	3.0	2.5	2.5	8.5	7.0	7.5
3	3.0	3.0	3.0	3.5	3.0	3.0	3.5	3.0	3.0	8.0	7.0	7.5
4	3.0	2.0	2.5	3.5	3.0	3.5	4.0	3.0	3.5	8.5	6.5	7.5
5	2.0	1.0	1.5	4.0	3.0	3.5	3.5	3.0	3.5	9.5	6.5	7.5
6	1.0	0.0	0.5	3.5	2.5	3.0	4.5	3.0	4.0	10.0	6.0	7.5
7	1.5	0.5	1.0	4.0	3.5	3.5	5.0	3.5	4.0	11.0	7.0	8.5
8	2.0	1.5	1.5	4.5	4.0	4.0	5.5	3.5	4.5	11.5	7.5	9.0
9	2.0	1.5	2.0	4.5	4.0	4.5	5.0	4.0	4.0	12.0	8.0	9.5
10	2.5	2.0	2.5	5.0	4.5	5.0	4.0	3.5	4.0	12.0	8.5	10.0
11	2.0	0.5	1.0	5.0	4.0	4.5	5.0	3.5	4.0	11.5	10.0	10.5
12	1.5	0.5	1.5	5.0	4.0	4.5	5.0	3.5	4.0	10.5	9.5	10.0
13	1.5	1.0	1.5	4.5	4.0	4.0	5.0	3.5	4.0	10.0	9.5	9.5
14	1.5	0.5	1.0	4.5	3.5	4.0	5.0	3.5	4.5	9.5	8.5	9.0
15	2.0	1.0	1.5	4.5	3.5	4.0	4.5	4.0	4.5	10.0	8.0	9.0
16	2.0	1.5	2.0	3.5	3.0	3.0	5.0	4.0	4.5	10.0	8.5	9.0
17	2.0	1.5	2.0	3.0	2.5	2.5	6.0	4.0	4.5	10.0	8.5	9.0
18	2.5	1.5	2.0	3.0	2.0	2.0	5.0	3.5	4.5	10.0	8.0	9.0
19	2.0	1.0	1.5	2.0	1.0	1.5	5.5	4.5	5.0	10.0	9.0	9.5
20	1.5	1.0	1.0	1.5	0.5	1.0	6.0	5.0	5.5	9.5	9.0	9.0
21	2.5	1.5	2.0	1.5	1.0	1.0	7.0	5.0	6.0	9.5	8.0	8.5
22	2.5	1.5	2.0	2.5	1.5	2.0	7.0	4.5	5.5	10.5	8.5	9.0
23	2.5	1.5	2.0	3.0	1.5	2.0	7.5	5.0	6.0	9.5	9.0	9.0
24	2.5	1.5	2.0	2.5	1.5	2.0	8.0	5.5	6.5	10.0	8.5	9.0
25	2.5	1.5	2.0	3.0	2.0	2.5	8.0	6.0	7.0	11.0	8.5	9.5
26	2.5	2.0	2.5	4.0	2.5	3.5	8.5	6.0	7.0	11.5	9.5	10.5
27	3.0	2.0	2.5	4.0	3.0	3.5	9.5	7.0	8.0	12.0	10.0	11.0
28	3.0	2.5	3.0	3.5	3.0	3.5	9.0	7.0	7.5	12.0	10.0	11.0
29	---	---	---	3.5	3.0	3.0	9.0	6.0	7.0	11.5	10.0	11.0
30	---	---	---	3.5	3.0	3.5	7.5	6.0	6.5	13.0	10.5	11.5
31	---	---	---	4.0	3.0	3.5	---	---	---	12.5	10.5	11.5
MONTH	3.5	0.0	1.9	5.0	0.5	3.1	9.5	2.5	4.9	13.0	6.0	9.2

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	13.0	10.5	11.5	13.0	11.5	12.5	13.5	11.5	12.0	12.5	11.5	12.0
2	13.0	9.5	11.0	12.5	12.0	12.0	13.0	11.5	12.0	12.5	11.5	12.0
3	12.0	10.0	11.0	12.5	11.5	12.0	13.0	12.0	12.5	12.0	11.0	11.5
4	12.0	10.0	11.0	12.5	11.5	12.0	12.5	11.5	12.0	11.5	10.5	11.0
5	12.5	9.0	10.5	12.5	11.5	12.0	13.0	12.0	12.5	12.0	11.0	11.5
6	13.5	9.5	11.5	12.0	11.0	11.5	13.5	12.0	12.5	12.0	11.5	11.5
7	14.0	10.5	12.0	11.5	11.0	11.5	14.0	11.5	12.5	12.0	11.5	12.0
8	13.5	10.5	12.0	12.5	11.0	11.5	15.0	11.5	13.0	12.0	11.5	11.5
9	12.5	10.5	11.5	13.0	11.5	12.0	15.5	12.5	13.5	11.5	10.5	11.0
10	12.0	10.5	11.5	12.0	11.5	12.0	16.5	13.0	14.0	11.5	10.5	11.0
11	12.5	10.5	11.5	13.5	11.5	12.5	17.0	13.0	14.5	12.5	11.5	12.0
12	11.5	10.5	11.0	13.0	12.0	12.5	17.0	13.5	15.0	13.0	12.0	12.0
13	11.0	10.0	10.5	13.0	12.0	12.5	17.5	14.0	15.5	12.5	11.5	12.0
14	12.0	10.0	11.0	12.5	11.5	12.0	16.5	14.5	15.0	12.0	11.0	11.5
15	11.5	9.5	10.5	12.0	11.5	11.5	15.5	14.5	15.0	11.5	10.5	11.0
16	13.5	9.5	11.5	13.0	11.0	12.0	16.0	14.0	15.0	11.0	9.5	10.5
17	15.0	10.5	12.5	13.5	12.5	13.0	16.5	13.0	14.5	11.5	10.5	11.0
18	16.0	12.0	13.5	13.5	12.0	12.5	15.0	14.0	14.5	11.0	10.5	11.0
19	14.0	13.0	13.5	13.0	12.0	12.5	14.5	13.0	14.0	11.0	10.0	10.5
20	13.5	12.0	13.0	12.5	11.5	12.0	13.0	12.0	12.5	10.5	10.0	10.5
21	13.5	11.0	12.0	13.5	12.0	12.5	13.5	12.5	13.0	10.5	9.5	10.0
22	12.5	11.0	12.0	13.5	11.0	12.0	13.0	12.5	12.5	10.0	9.0	9.5
23	12.0	11.0	11.5	14.0	12.0	13.0	14.0	12.0	13.0	10.5	10.0	10.0
24	13.5	11.5	12.5	14.0	11.5	12.5	14.0	12.0	13.0	11.0	10.5	10.5
25	13.5	12.0	12.5	13.0	12.0	12.5	13.5	13.0	13.0	11.0	10.0	10.5
26	15.5	12.0	13.5	13.0	12.5	13.0	13.0	12.0	12.5	10.0	8.5	9.0
27	15.0	12.5	13.5	14.0	12.5	13.0	12.5	12.0	12.5	9.0	8.0	8.5
28	14.0	13.0	13.5	13.5	12.5	13.0	13.0	12.0	12.5	10.5	9.0	10.0
29	13.5	12.5	13.0	13.0	12.0	12.5	13.0	12.5	13.0	10.5	9.5	10.0
30	13.0	12.5	13.0	13.0	11.5	12.5	13.0	12.5	12.5	10.0	9.5	9.5
31	---	---	---	12.5	11.5	12.0	12.5	11.5	12.0	---	---	---
MONTH	16.0	9.0	12.0	14.0	11.0	12.3	17.5	11.5	13.3	13.0	8.0	10.8

15085800 MAYBESO CREEK NEAR HOLLIS

LOCATION.--Lat 55°29'26", long 132°40'31", in SW$^1/_4$ SE$^1/_4$ sec. 32, T. 73 S., R. 84 E. (Craig B-3 quad), Hydrologic Unit 19010103, on Prince of Wales Island, on right bank, 800 ft downstream from unnamed tributary, 2,200 ft upstream from mouth, and 0.5 mi northwest of Hollis.

DRAINAGE AREA.--15.1 mi^2

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1949 to September 1963, October 2003 to current year.(discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 35 ft above sea level, from topographic map.

REMARKS.--Records poor.

EXTREMES FOR CURRENT PERIOD.--November 2003 through September 2004: Maximum discharge during period, 2830 ft^3/s, September 24, gage height, 8.86 ft; minimum discharge, 8.6 ft^3/s, August 24-26, gage height, 1.59 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	45	739	48	e15	e25	e75	e50	113	12	15	25
2	---	37	487	35	e13	e23	e132	e43	70	13	162	21
3	---	33	141	e25	e15	e37	e133	e80	49	14	88	292
4	---	29	89	e22	e23	e60	e137	e75	38	12	44	223
5	---	26	108	e19	e43	e90	e79	61	38	49	35	63
6	---	23	83	e17	e78	e103	e65	47	33	231	27	48
7	---	21	59	e25	e171	e683	e109	45	31	83	22	39
8	---	20	49	68	e344	e640	e93	41	30	51	30	33
9	---	65	42	341	e422	e225	e65	38	28	30	24	26
10	---	93	38	433	e230	e161	e88	47	24	22	20	23
11	---	175	49	171	e106	e218	e113	48	23	20	17	21
12	---	1220	69	307	e79	e116	e93	48	33	17	15	25
13	---	1200	56	603	e81	e75	e69	55	43	15	15	e300
14	---	220	40	783	e86	e68	e60	55	31	14	14	e130
15	---	215	612	252	e56	e210	e49	49	26	13	13	e100
16	---	119	516	128	e45	e341	e36	43	22	14	12	48
17	---	102	396	568	e65	e136	e29	42	20	16	13	33
18	---	81	531	682	e235	e79	e28	46	20	18	12	29
19	---	57	1210	227	e195	e57	e26	52	18	15	16	23
20	---	44	383	385	e337	e49	e24	58	17	19	28	163
21	---	36	433	394	e212	e45	e24	60	16	24	20	1010
22	---	55	1220	369	e110	e59	e33	47	15	17	16	347
23	---	70	773	e190	e76	e71	e74	37	14	14	13	838
24	---	63	267	e95	e73	e78	e285	52	14	12	13	984
25	---	219	196	e54	e55	e73	e312	72	13	20	12	171
26	---	96	104	e35	e45	e61	e364	75	13	18	12	90
27	---	63	73	e23	e36	e60	e110	55	14	16	57	160
28	---	47	55	e22	e30	e210	e67	46	13	19	81	90
29	---	53	48	e22	e28	e493	e50	53	12	28	60	66
30	e90	551	49	e21	---	e277	e46	106	12	18	56	57
31	e60	---	52	e17	---	e111	---	117	---	15	41	---
TOTAL	---	5078	8967	6381	3304	4934	2868	1743	843	879	1003	5478
MEAN	---	169	289	206	114	159	95.6	56.2	28.1	28.4	32.4	183
MAX	---	1220	1220	783	422	683	364	117	113	231	162	1010
MIN	---	20	38	17	13	23	24	37	12	12	12	21
AC-FT	---	10070	17790	12660	6550	9790	5690	3460	1670	1740	1990	10870
CFSM	---	11.2	19.2	13.6	7.55	10.5	6.33	3.72	1.86	1.88	2.14	12.1
IN.	---	12.51	22.09	15.72	8.14	12.16	7.07	4.29	2.08	2.17	2.47	13.50

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

MEAN	247	193	199	123	109	90.0	130	162	125	66.9	68.5	127
MAX	412	282	344	269	307	213	182	309	204	111	139	195
(WY)	1962	1960	1963	1963	1954	1959	1960	1956	1950	1952	1956	1952
MIN	90.9	108	40.0	12.0	10.0	30.0	85.8	49.2	28.1	18.6	19.4	49.7
(WY)	1958	1956	1956	1950	1950	1950	1950	1961	2004	1958	1954	1951

\# See Period of Record; partial year was used in monthly statistics and break in record
e Estimated

15085800 MAYBESO CREEK NEAR HOLLIS—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	614	335	36	935	195	92	e39	e20	22	68	153
2	39	337	1820	33	352	356	135	e42	e19	31	39	96
3	35	1350	539	32	186	422	170	e49	e18	211	75	77
4	142	612	191	30	154	363	128	e49	e17	126	163	59
5	630	223	117	28	105	173	242	e40	e16	211	103	49
6	635	137	89	27	75	127	222	e35	e15	226	141	245
7	357	102	72	24	65	195	101	e37	e14	230	91	397
8	608	86	63	21	93	610	80	e41	e14	80	51	207
9	209	72	118	e17	239	227	105	e46	e13	51	39	91
10	267	63	121	e15	383	496	169	e51	e14	137	32	61
11	134	57	117	e15	151	284	152	e49	e16	73	28	51
12	403	65	118	e13	96	120	88	e30	e16	44	25	45
13	652	551	111	e12	73	77	65	e27	e16	35	22	58
14	201	682	250	e11	60	59	55	e31	e18	265	20	46
15	120	320	263	e14	52	49	95	e102	e19	260	19	40
16	92	232	712	18	52	42	e132	e109	e20	87	18	37
17	70	143	212	224	53	35	e105	e86	e15	57	16	59
18	58	92	663	234	51	30	e86	e55	e13	65	19	378
19	49	100	640	351	47	25	e355	e44	e11	51	290	414
20	44	537	342	118	40	22	e194	e41	10	40	119	291
21	60	565	178	342	37	22	e138	e51	9.1	41	159	136
22	201	136	168	497	37	24	e107	e49	8.7	37	274	80
23	78	151	402	292	45	23	e86	e79	12	48	114	128
24	318	355	497	185	75	21	e81	e97	29	37	62	147
25	155	306	165	99	111	21	e75	e60	21	29	156	206
26	78	256	90	175	159	37	e60	e43	15	31	168	77
27	207	209	68	268	120	94	e54	e35	12	106	174	179
28	354	175	138	449	169	51	e47	e29	13	74	132	734
29	667	221	84	242	---	41	e38	e27	19	47	76	367
30	255	228	54	528	---	51	e34	e26	34	66	172	300
31	221	---	e40	488	---	375	---	e23	---	110	171	---
TOTAL	7384	8977	8777	4838	4015	4667	3491	1522	486.8	2928	3036	5208
MEAN	238	299	283	156	143	151	116	49.1	16.2	94.5	97.9	174
MAX	667	1350	1820	528	935	610	355	109	34	265	290	734
MIN	35	57	40	11	37	21	34	23	8.7	22	16	37
AC-FT	14650	17810	17410	9600	7960	9260	6920	3020	966	5810	6020	10330
CFSM	15.8	19.8	18.8	10.3	9.50	9.97	7.71	3.25	1.07	6.26	6.49	11.5
IN.	18.19	22.12	21.62	11.92	9.89	11.50	8.60	3.75	1.20	7.21	7.48	12.83

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005, BY WATER YEAR (WY)#

MEAN	247	199	204	125	112	93.8	129	155	119	68.6	70.2	129
MAX	412	299	344	269	307	213	182	309	204	111	139	195
(WY)	1962	2005	1963	1963	1954	1959	1960	1956	1950	1952	1956	1952
MIN	90.9	108	40.0	12.0	10.0	30.0	85.8	49.1	16.2	18.6	19.4	49.7
(WY)	1958	1956	1956	1950	1950	1950	1950	2005	2005	1958	1954	1951

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1949 - 2005#	
ANNUAL TOTAL	52571		55329.8			
ANNUAL MEAN	144		152		137	
HIGHEST ANNUAL MEAN					157	1960
LOWEST ANNUAL MEAN					112	1958
HIGHEST DAILY MEAN	1820	Dec 2	1820	Dec 2	3000	Jan 6 1963
LOWEST DAILY MEAN	12	Jun 29	8.7	Jun 22	6.0	Dec 31 1951
ANNUAL SEVEN-DAY MINIMUM	13	Jun 28	11	Jun 17	9.5	Jul 13 1958
MAXIMUM PEAK FLOW			a4370	Dec 2	a4370	Dec 2 2004
MAXIMUM PEAK STAGE			11.05	Dec 2	11.05	Dec 2 2004
INSTANTANEOUS LOW FLOW			8.6	Jun 22		
ANNUAL RUNOFF (AC-FT)	104300		109700		99560	
ANNUAL RUNOFF (CFSM)	9.51		10.0		9.10	
ANNUAL RUNOFF (INCHES)	129.51		136.31		123.66	
10 PERCENT EXCEEDS	359		359		303	
50 PERCENT EXCEEDS	63		84		85	
90 PERCENT EXCEEDS	16		19		24	

\# See Period of Record; partial year was used in monthly statistics and break in record
a From rating curve extended above 200 ft^3/s on basis of runoff comparisons with nearby stations
e Estimated

15085800 MAYBESO CREEK NEAR HOLLIS—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1949, 1956, 1959, 2004, and 2005 (discontinued).

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 2003 to September 2005 (discontinued).

INSTRUMENTATION.-- Electronic water-temperature recorder since October 2003, set for 15-minute recording interval.

REMARKS.--No record from April 15 to June 20 due to recorder malfunction. 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 August 17. No variation was found within the cross section. The variation between mean stream temperature and temperature sensor is less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 17.5°C, June 23-24, 2004; minimum, 0.0°C on many days during winter.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 16.0°C, August 13; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
AUG							
17...	1255	42.0	5.00	1.69	17	14.1	18.5
17...	1256	42.0	13.0	1.69	17	14.1	18.5
17...	1257	42.0	21.0	1.69	17	14.1	18.5
17...	1258	42.0	29.0	1.69	17	14.1	18.5
17...	1259	42.0	37.0	1.69	17	14.1	18.5

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.5	7.5	8.0	4.5	4.0	4.5	4.0	3.5	3.5	0.0	0.0	0.0
2	9.0	8.0	8.5	4.5	4.0	4.0	5.0	4.0	4.5	0.5	0.0	0.0
3	8.5	7.5	8.0	5.0	4.0	4.5	4.5	3.5	4.0	1.0	0.5	1.0
4	9.0	8.0	8.5	5.0	3.5	4.0	3.5	3.0	3.0	1.5	1.0	1.0
5	9.5	8.5	9.0	4.0	3.5	3.5	3.0	2.5	2.5	1.5	1.0	1.0
6	8.5	8.0	8.5	3.5	3.0	3.0	2.5	2.0	2.0	1.0	0.5	0.5
7	8.5	8.0	8.0	3.5	3.0	3.0	2.0	1.0	1.5	0.5	0.0	0.5
8	8.0	8.0	8.0	3.0	2.5	2.5	2.0	1.5	1.5	0.5	0.0	0.0
9	8.5	7.5	8.0	2.5	2.0	2.0	2.0	1.0	1.5	0.0	0.0	0.0
10	8.5	8.0	8.0	2.0	1.5	2.0	2.0	1.5	1.5	0.5	0.0	0.0
11	8.0	7.5	8.0	2.0	1.5	1.5	2.0	1.5	2.0	0.5	0.0	0.5
12	8.5	7.5	8.0	2.5	1.5	2.0	2.0	1.5	1.5	0.0	0.0	0.0
13	9.0	8.5	9.0	3.5	2.0	2.5	2.0	1.5	2.0	0.0	0.0	0.0
14	9.5	8.5	9.0	4.0	3.5	3.5	2.0	2.0	2.0	0.0	0.0	0.0
15	8.5	7.5	8.5	4.0	3.5	4.0	2.5	2.0	2.0	0.0	0.0	0.0
16	7.5	6.5	7.0	4.0	3.5	3.5	3.5	2.5	3.0	0.5	0.0	0.0
17	6.5	6.0	6.5	3.5	3.0	3.0	4.0	3.5	3.5	0.5	0.0	0.0
18	6.0	5.0	5.5	3.0	2.5	2.5	5.0	4.0	4.0	0.5	0.0	0.0
19	5.0	4.5	5.0	3.0	2.5	2.5	5.0	3.5	4.0	1.0	0.0	0.5
20	5.0	4.0	5.0	4.5	3.0	3.5	3.5	3.0	3.0	1.5	1.0	1.5
21	4.5	4.0	4.5	4.5	3.5	4.0	3.0	2.5	3.0	2.0	1.0	1.5
22	5.0	4.0	4.5	3.5	3.0	3.0	3.0	3.0	3.0	2.0	1.5	1.5
23	4.5	3.5	4.0	3.0	2.5	3.0	4.0	3.0	3.5	2.0	1.5	2.0
24	4.5	3.5	4.0	3.0	2.5	3.0	4.0	3.0	4.0	2.5	2.0	2.0
25	5.0	4.0	4.5	3.0	2.5	3.0	3.0	2.0	2.5	2.0	2.0	2.0
26	4.5	3.5	4.0	3.0	2.5	3.0	2.0	1.5	2.0	2.5	2.0	2.5
27	4.5	3.5	4.0	3.0	2.5	3.0	2.0	1.5	2.0	3.0	2.5	2.5
28	5.0	4.0	4.5	3.5	3.0	3.0	2.0	1.0	1.5	2.5	2.5	2.5
29	5.5	5.0	5.0	3.5	3.0	3.5	2.0	1.0	1.5	2.5	2.5	2.5
30	5.0	4.5	4.5	3.5	3.5	3.5	1.0	0.0	0.5	3.0	2.5	3.0
31	4.5	4.0	4.0	---	---	---	0.0	0.0	0.0	3.0	2.5	2.5
MONTH	9.5	3.5	6.5	5.0	1.5	3.1	5.0	0.0	2.5	3.0	0.0	1.0

15085800 MAYBESO CREEK NEAR HOLLIS—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	2.0	2.5	2.0	1.5	2.0	3.0	2.0	2.5	---	---	---
2	2.5	2.0	2.5	2.0	1.5	2.0	2.0	1.0	2.0	---	---	---
3	2.5	2.0	2.5	2.0	1.5	2.0	3.0	1.5	2.0	---	---	---
4	2.5	1.5	1.5	2.5	2.0	2.0	3.0	2.0	2.5	---	---	---
5	1.5	0.5	1.0	3.0	2.0	2.5	2.5	2.0	2.5	---	---	---
6	1.0	0.5	0.5	2.5	2.0	2.5	4.0	2.0	3.0	---	---	---
7	1.5	1.0	1.0	3.0	2.0	2.5	5.0	2.5	3.5	---	---	---
8	1.5	1.0	1.0	3.5	3.0	3.0	4.5	3.0	3.5	---	---	---
9	1.5	0.5	1.0	4.0	3.0	3.5	4.0	3.5	3.5	---	---	---
10	1.5	0.5	1.0	4.5	3.5	4.0	3.5	3.0	3.0	---	---	---
11	1.5	0.0	0.5	4.0	3.5	4.0	4.0	2.5	3.0	---	---	---
12	1.0	0.0	1.0	4.0	3.0	3.5	4.5	3.0	3.5	---	---	---
13	1.5	0.5	1.0	4.0	3.0	3.5	4.5	3.0	3.5	---	---	---
14	1.0	0.0	1.0	3.5	2.5	3.0	4.5	2.5	3.5	---	---	---
15	2.0	1.0	1.5	4.0	3.0	3.5	---	---	---	---	---	---
16	2.0	1.5	1.5	3.5	2.5	3.0	---	---	---	---	---	---
17	2.0	1.0	1.5	3.0	2.0	2.5	---	---	---	---	---	---
18	1.5	1.0	1.5	3.0	1.5	2.0	---	---	---	---	---	---
19	1.0	0.5	1.0	2.0	1.0	1.5	---	---	---	---	---	---
20	1.0	0.0	1.0	2.5	0.5	1.5	---	---	---	---	---	---
21	2.0	1.0	1.5	2.5	1.5	2.0	---	---	---	---	---	---
22	2.0	1.5	1.5	3.5	2.0	2.5	---	---	---	---	---	---
23	2.0	0.5	1.5	3.5	1.5	2.5	---	---	---	---	---	---
24	1.5	0.5	1.0	3.5	1.5	2.5	---	---	---	---	---	---
25	1.5	0.5	1.0	3.0	2.0	2.5	---	---	---	---	---	---
26	1.5	1.0	1.5	3.5	2.5	3.0	---	---	---	---	---	---
27	1.5	1.0	1.5	3.5	2.5	3.0	---	---	---	---	---	---
28	2.0	1.5	2.0	4.0	2.5	3.0	---	---	---	---	---	---
29	---	---	---	4.5	2.5	3.5	---	---	---	---	---	---
30	---	---	---	4.0	3.0	3.5	---	---	---	---	---	---
31	---	---	---	3.0	2.5	3.0	---	---	---	---	---	---
MONTH	2.5	0.0	1.3	4.5	0.5	2.7	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	12.5	11.0	12.0	13.0	11.0	12.0	11.5	10.5	11.0
2	---	---	---	12.0	11.5	11.5	12.5	10.5	11.5	11.5	10.5	11.0
3	---	---	---	11.5	11.0	11.0	12.0	11.5	11.5	12.0	10.5	11.0
4	---	---	---	12.0	11.0	11.5	12.0	11.0	11.5	11.0	10.0	10.5
5	---	---	---	11.5	11.0	11.5	12.0	11.0	11.5	11.0	10.0	10.5
6	---	---	---	11.0	10.5	11.0	12.0	11.0	11.5	11.0	10.5	11.0
7	---	---	---	11.0	10.5	10.5	12.5	11.0	11.5	11.5	10.5	11.0
8	---	---	---	12.0	10.5	11.0	13.0	11.0	12.0	11.0	10.5	11.0
9	---	---	---	13.0	10.5	11.5	14.5	11.5	13.0	11.0	9.5	10.0
10	---	---	---	11.5	11.0	11.5	15.0	12.0	13.5	10.5	9.5	10.0
11	---	---	---	12.5	11.0	11.5	15.0	12.0	13.5	11.5	10.0	11.0
12	---	---	---	13.0	11.0	12.0	15.5	12.5	14.0	12.0	10.5	11.0
13	---	---	---	12.0	11.0	11.5	16.0	13.0	14.5	12.0	10.5	11.0
14	---	---	---	11.5	11.0	11.5	15.5	13.5	14.5	11.5	10.0	10.5
15	---	---	---	11.5	11.0	11.0	14.5	13.5	14.0	11.5	10.0	10.5
16	---	---	---	12.0	10.0	11.0	14.5	13.0	13.5	10.5	9.0	10.0
17	---	---	---	12.5	11.0	12.0	15.0	12.0	13.5	10.5	10.0	10.0
18	---	---	---	12.5	11.0	11.5	14.5	13.0	13.5	10.5	10.0	10.5
19	---	---	---	12.0	10.5	11.5	13.5	12.5	13.0	10.0	9.5	10.0
20	---	---	---	12.0	11.0	11.5	12.5	12.0	12.0	9.5	9.5	9.5
21	13.5	11.0	12.0	12.5	11.0	11.5	12.5	11.5	12.0	10.0	9.0	9.5
22	12.5	11.0	12.0	12.5	10.5	11.5	12.0	11.5	12.0	9.5	8.5	9.0
23	12.0	11.0	11.5	13.0	11.0	12.0	12.5	11.0	11.5	9.5	9.0	9.0
24	12.5	11.0	12.0	13.0	11.0	12.0	12.5	11.0	11.5	10.0	9.5	9.5
25	13.5	11.5	12.0	12.5	11.0	12.0	12.0	11.5	12.0	10.0	9.5	9.5
26	14.5	11.5	13.0	12.0	11.5	12.0	12.5	11.5	12.0	9.5	8.5	9.0
27	15.0	11.5	13.0	12.5	11.5	12.0	12.0	11.0	11.5	9.0	8.0	8.5
28	13.0	12.0	12.5	12.5	11.5	12.0	12.5	11.0	11.5	9.0	8.5	9.0
29	12.5	12.0	12.0	12.5	11.0	12.0	11.5	11.0	11.5	9.0	9.0	9.0
30	12.5	11.5	12.0	12.0	11.0	11.5	12.0	11.0	11.5	9.0	8.5	8.5
31	---	---	---	12.0	11.0	11.5	11.5	11.0	11.0	---	---	---
MONTH	---	---	---	13.0	10.0	11.5	16.0	10.5	12.4	12.0	8.0	10.1

15087080 UPPER EARL WEST CREEK NEAR WRANGELL

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2004 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: October 2003 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder since October 2003, set for 15-minute recording interval.

REMARKS.-- Missing record October 16-27, November 9-10, December 31 to January 16, March 18-25, April 22 to May 1, May 6-19, and May 25 to June 9 due to probe in air or ice. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on December 7. No variation was found within the cross sections. The variation between mean stream temperature and sensor temperature is less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 21.5°C, August 13, 2005; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 21.5°C, August 13; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
DEC							
07...	1440	16.0	4.00	5.6	10	.0	-4.2
07...	1441	16.0	8.00	5.6	10	.0	-4.2
07...	1442	16.0	12.0	5.6	10	.0	-4.2
07...	1443	16.0	16.0	5.6	10	.0	-4.2

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.0	7.5	8.0	3.0	2.0	2.0	3.0	2.5	2.5	---	---	---
2	9.5	7.0	8.0	2.5	1.5	2.0	3.5	2.5	3.0	---	---	---
3	8.5	6.0	7.0	3.0	1.5	2.5	3.5	2.0	3.0	---	---	---
4	9.0	7.5	8.0	2.5	2.0	2.0	2.0	1.0	2.0	---	---	---
5	9.0	8.0	8.5	2.5	1.5	2.0	1.0	0.0	0.5	---	---	---
6	8.0	7.5	8.0	1.5	1.0	1.0	0.0	0.0	0.0	---	---	---
7	8.0	7.5	8.0	1.0	0.5	0.5	0.0	0.0	0.0	---	---	---
8	8.0	7.5	8.0	1.0	0.0	0.5	0.0	0.0	0.0	---	---	---
9	8.0	7.5	8.0	---	---	---	0.0	0.0	0.0	---	---	---
10	8.0	8.0	8.0	---	---	---	0.0	0.0	0.0	---	---	---
11	8.0	7.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
12	9.0	6.0	7.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
13	9.5	9.0	9.5	2.0	0.0	1.5	0.5	0.0	0.0	---	---	---
14	9.5	9.0	9.0	3.0	2.0	2.5	1.0	0.0	0.5	---	---	---
15	9.0	7.5	8.5	3.0	2.5	3.0	1.0	0.5	1.0	---	---	---
16	---	---	---	3.0	2.5	3.0	2.0	1.0	1.5	---	---	---
17	---	---	---	2.5	1.5	2.5	2.5	2.0	2.0	0.0	0.0	0.0
18	---	---	---	1.5	0.5	1.0	4.0	2.5	3.0	0.0	0.0	0.0
19	---	---	---	2.0	1.0	1.5	4.0	2.5	2.5	0.0	0.0	0.0
20	---	---	---	3.5	2.0	2.5	2.5	1.5	2.0	0.0	0.0	0.0
21	---	---	---	3.5	3.0	3.5	1.5	1.5	1.5	0.0	0.0	0.0
22	---	---	---	3.0	2.0	2.5	2.0	1.5	1.5	0.0	0.0	0.0
23	---	---	---	2.0	1.5	1.5	2.5	1.5	2.0	0.5	0.0	0.0
24	---	---	---	2.0	1.5	2.0	3.0	2.0	2.5	1.0	0.5	0.5
25	---	---	---	2.0	2.0	2.0	2.0	0.5	1.0	1.0	0.0	0.5
26	---	---	---	2.0	1.5	2.0	0.5	0.0	0.0	1.5	1.0	1.0
27	---	---	---	2.0	1.5	2.0	0.0	0.0	0.0	1.5	1.5	1.5
28	3.0	2.5	2.5	2.5	2.0	2.0	0.0	0.0	0.0	1.5	1.5	1.5
29	3.0	2.0	2.5	2.5	2.0	2.5	0.0	0.0	0.0	1.5	1.0	1.5
30	3.0	2.5	3.0	2.5	2.0	2.5	0.0	0.0	0.0	2.0	1.5	1.5
31	3.0	2.5	2.5	---	---	---	---	---	---	1.5	1.0	1.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

15087080 UPPER EARL WEST CREEK NEAR WRANGELL—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	0.0	1.0	0.5	0.0	0.5	1.5	0.0	0.5	---	---	---
2	1.0	0.5	1.0	1.0	0.5	0.5	1.0	0.0	0.5	8.0	6.5	7.0
3	1.0	1.0	1.0	1.0	0.5	1.0	2.0	0.5	1.0	6.5	5.5	6.0
4	1.0	0.0	0.5	1.0	0.5	1.0	2.5	0.5	1.5	9.0	5.5	7.0
5	0.0	0.0	0.0	2.0	1.0	1.5	2.5	1.0	2.0	9.5	6.5	7.5
6	0.0	0.0	0.0	1.5	1.0	1.0	3.0	1.0	2.0	---	---	---
7	0.0	0.0	0.0	2.0	1.0	1.5	3.5	1.0	2.0	---	---	---
8	0.0	0.0	0.0	1.5	1.0	1.0	3.0	1.0	2.0	---	---	---
9	0.0	0.0	0.0	2.0	1.0	1.5	2.5	1.5	2.0	---	---	---
10	0.0	0.0	0.0	1.5	1.0	1.5	2.5	1.0	2.0	---	---	---
11	0.0	0.0	0.0	2.0	1.0	1.5	3.0	1.5	2.5	---	---	---
12	0.0	0.0	0.0	2.5	1.5	2.0	3.5	1.0	2.5	---	---	---
13	0.0	0.0	0.0	3.0	1.5	2.0	3.5	1.0	2.5	---	---	---
14	0.0	0.0	0.0	3.0	1.0	2.0	4.0	2.5	3.0	---	---	---
15	0.0	0.0	0.0	3.0	2.0	2.5	2.5	2.0	2.0	---	---	---
16	0.0	0.0	0.0	2.5	0.5	1.5	3.5	1.5	2.5	---	---	---
17	0.0	0.0	0.0	2.5	0.0	1.0	4.0	1.5	2.5	---	---	---
18	0.0	0.0	0.0	---	---	---	4.0	1.5	3.0	---	---	---
19	0.0	0.0	0.0	---	---	---	3.0	2.0	2.5	---	---	---
20	0.0	0.0	0.0	---	---	---	4.0	2.0	3.0	11.5	9.5	10.5
21	0.0	0.0	0.0	---	---	---	4.0	2.5	3.5	10.5	8.5	9.5
22	0.0	0.0	0.0	---	---	---	---	---	---	11.5	8.0	9.5
23	0.0	0.0	0.0	---	---	---	---	---	---	10.5	9.0	9.5
24	0.0	0.0	0.0	---	---	---	---	---	---	10.5	8.5	9.5
25	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
26	0.0	0.0	0.0	3.0	1.0	2.0	---	---	---	---	---	---
27	0.0	0.0	0.0	1.5	0.5	1.0	---	---	---	---	---	---
28	0.5	0.0	0.0	2.0	0.5	1.5	---	---	---	---	---	---
29	---	---	---	3.5	1.0	2.0	---	---	---	---	---	---
30	---	---	---	2.5	1.0	2.0	---	---	---	---	---	---
31	---	---	---	2.0	0.0	0.5	---	---	---	---	---	---
MONTH	1.5	0.0	0.1	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	---	---	---	14.0	12.5	13.0	14.5	11.5	13.0	11.0	10.5	11.0
2	---	---	---	13.5	12.0	13.0	16.0	12.0	14.0	11.5	10.0	10.5
3	---	---	---	12.0	11.0	11.5	14.0	11.5	13.0	13.0	10.5	11.5
4	---	---	---	12.0	11.0	11.5	12.0	11.0	11.5	12.5	10.5	11.5
5	---	---	---	12.0	11.0	11.5	12.0	11.5	11.5	11.5	10.5	11.0
6	---	---	---	12.0	10.5	11.0	13.5	11.5	12.0	11.0	10.5	11.0
7	---	---	---	11.5	10.5	11.0	15.5	11.5	13.0	11.5	11.0	11.0
8	---	---	---	13.0	10.5	11.5	16.5	12.0	14.0	11.5	10.5	11.0
9	---	---	---	13.0	11.5	12.5	18.5	13.0	15.5	12.0	9.5	10.5
10	18.0	14.5	16.0	12.0	11.0	11.5	19.5	14.0	16.5	11.0	9.5	10.0
11	16.5	14.5	15.5	13.5	11.0	12.5	20.5	14.5	17.5	13.0	10.0	11.5
12	15.5	14.0	15.0	12.5	11.5	12.0	20.5	15.0	18.0	12.0	11.0	11.5
13	14.5	13.0	14.0	13.0	12.0	12.5	21.5	15.5	18.5	12.0	10.5	11.5
14	13.0	9.5	11.0	12.5	11.0	11.5	20.5	16.5	18.5	11.5	10.5	11.0
15	12.0	10.0	11.0	12.5	11.0	11.5	18.5	16.5	17.0	12.0	10.0	11.0
16	17.0	9.0	13.0	13.0	11.0	12.0	20.0	16.0	17.5	11.0	10.0	10.5
17	19.5	11.5	15.5	13.0	12.0	12.5	19.5	15.5	17.0	10.5	10.0	10.0
18	21.0	13.5	17.5	12.5	11.5	12.0	17.5	13.5	16.0	10.0	9.5	10.0
19	19.5	15.5	17.0	13.5	11.5	12.5	14.5	13.5	14.0	10.0	9.0	9.5
20	16.5	14.5	15.5	12.5	11.5	12.0	13.5	12.5	13.0	10.0	9.0	9.5
21	15.5	13.0	14.0	14.0	11.5	12.5	12.5	11.5	12.0	10.0	9.0	9.5
22	15.0	12.5	14.0	15.5	11.0	13.0	12.5	11.5	12.0	9.5	8.5	9.0
23	14.0	12.5	13.5	14.0	12.5	13.0	13.0	11.5	12.0	9.5	9.0	9.5
24	13.0	10.5	12.0	14.5	12.0	13.0	14.0	11.0	12.5	10.0	9.5	10.0
25	15.0	11.0	13.0	14.0	12.5	13.0	13.5	12.0	13.0	10.0	9.0	9.5
26	17.5	12.0	14.5	14.5	12.5	13.5	13.0	11.5	12.5	9.5	8.5	9.0
27	19.0	13.5	16.0	13.0	12.0	12.5	12.5	11.0	12.0	8.5	7.0	7.5
28	16.5	14.5	15.0	13.0	12.0	12.5	13.5	11.0	12.5	9.0	8.0	8.5
29	14.5	12.0	13.5	13.0	11.5	12.0	12.5	11.5	12.0	9.0	8.5	8.5
30	14.5	12.0	13.0	13.0	11.5	12.0	12.0	11.0	11.5	8.5	8.0	8.5
31	---	---	---	12.5	11.5	12.0	11.5	11.0	11.0	---	---	---
MONTH	---	---	---	15.5	10.5	12.2	21.5	11.0	14.0	13.0	7.0	10.2

15087300 FALLS CREEK NEAR PETERSBURG

LOCATION.--Lat 56°40'56", long 132°55'20", in NW¼ SE¼ sec. 11, T. 60 S., R. 79 E. (Petersburg C-3 quad.) Hydrologic Unit 19010202, on left bank 200 ft upstream from the bridge on Mitkof Highway, 1000 ft upstream from the mouth, 10.7 mi south of Petersburg, 4.1 mi north of Blind Island Campground.

DRAINAGE AREA.--17.4 mi^2

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder. Elevation of gage is 47 ft above sea level, by barometer.

REMARKS.--Records fair, except for discharges above 500 ft^3/s, and estimated daily discharges, which are poor. GOES satellite telemetry at station.

EXTREMES FOR CURRENT PERIOD.--May through September 2004: Maximum discharge during period, 2,570 ft^3/s, September 21, gage height 22.79 ft; minimum discharge, 4.6 ft^3/s, June 26-27, gage height, 17.68 ft.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	67	57	11	15	16
2	---	---	---	---	---	---	---	63	53	15	26	12
3	---	---	---	---	---	---	---	67	48	13	35	29
4	---	---	---	---	---	---	---	60	28	9.2	30	151
5	---	---	---	---	---	---	---	46	27	8.3	26	138
6	---	---	---	---	---	---	---	31	25	257	140	50
7	---	---	---	---	---	---	---	29	22	94	92	65
8	---	---	---	---	---	---	---	26	17	42	37	44
9	---	---	---	---	---	---	---	26	13	25	22	25
10	---	---	---	---	---	---	---	26	10	18	16	17
11	---	---	---	---	---	---	---	25	8.8	24	15	14
12	---	---	---	---	---	---	---	23	10	27	14	13
13	---	---	---	---	---	---	---	23	18	17	11	214
14	---	---	---	---	---	---	---	23	80	13	8.6	148
15	---	---	---	---	---	---	---	20	38	9.9	7.4	79
16	---	---	---	---	---	---	---	17	22	8.3	6.6	48
17	---	---	---	---	---	---	---	16	15	9.8	6.1	30
18	---	---	---	---	---	---	---	16	11	9.2	6.1	22
19	---	---	---	---	---	---	---	15	8.9	7.8	5.4	16
20	---	---	---	---	---	---	---	15	7.4	8.1	13	339
21	---	---	---	---	---	---	---	15	6.6	10	14	1440
22	---	---	---	---	---	---	---	12	6.0	13	8.9	184
23	---	---	---	---	---	---	---	9.6	5.5	9.2	6.8	683
24	---	---	---	---	---	---	---	11	5.1	7.0	5.8	878
25	---	---	---	---	---	---	---	50	4.8	6.9	5.3	204
26	---	---	---	---	---	---	---	60	4.7	7.3	5.4	83
27	---	---	---	---	---	---	---	38	4.7	7.0	34	283
28	---	---	---	---	---	---	---	33	4.8	54	67	104
29	---	---	---	---	---	---	e49	33	4.9	64	61	59
30	---	---	---	---	---	---	57	27	5.1	30	30	43
31	---	---	---	---	---	---	---	78	---	21	25	---
TOTAL	---	---	---	---	---	---	---	1000.6	571.3	856.0	795.4	5431
MEAN	---	---	---	---	---	---	---	32.3	19.0	27.6	25.7	181
MAX	---	---	---	---	---	---	---	78	80	257	140	1440
MIN	---	---	---	---	---	---	---	9.6	4.7	6.9	5.3	12
AC-FT	---	---	---	---	---	---	---	1980	1130	1700	1580	10770
CFSM	---	---	---	---	---	---	---	1.85	1.09	1.58	1.47	10.4
IN.	---	---	---	---	---	---	---	2.13	1.22	1.83	1.70	11.58

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

MEAN	---	---	---	---	---	---	---	32.3	19.0	27.6	25.7	181
MAX	---	---	---	---	---	---	---	32.3	19.0	27.6	25.7	181
(WY)	---	---	---	---	---	---	---	2004	2004	2004	2004	2004
MIN	---	---	---	---	---	---	---	32.3	19.0	27.6	25.7	181
(WY)	---	---	---	---	---	---	---	2004	2004	2004	2004	2004

e Estimated

15087300 FALLS CREEK NEAR PETERSBURG—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	34	560	197	e21	592	e180	150	15	5.8	26	55	168
2	28	270	1010	e18	260	e240	89	14	5.2	63	38	130
3	24	1040	301	e16	135	e320	121	15	4.8	131	64	72
4	42	362	101	e13	96	e400	117	16	4.7	175	147	51
5	900	124	62	e12	e55	e130	91	e18	4.7	74	176	38
6	510	71	42	e11	e45	e220	108	e17	4.6	91	310	185
7	298	51	e31	e10	e35	e250	79	e16	4.3	95	112	638
8	152	40	e27	e9.4	e42	e553	58	e14	4.2	63	55	163
9	120	33	e24	e8.8	142	312	84	e10	4.1	35	37	71
10	199	28	e21	e8.0	241	532	151	e9.5	4.2	240	27	48
11	119	24	e19	e7.5	109	390	148	e9.3	4.6	91	22	37
12	234	23	e40	e7.0	72	185	94	7.9	4.8	43	18	31
13	918	95	58	e6.6	e48	108	61	9.2	4.6	52	15	112
14	105	328	272	e6.2	e35	79	46	16	8.2	106	13	68
15	70	145	196	e6.0	e28	64	45	24	13	205	12	43
16	59	148	726	e6.0	28	56	61	15	9.3	70	10	32
17	43	110	279	e90	29	44	58	13	6.6	45	9.3	34
18	34	68	828	e250	32	36	46	9.3	5.4	72	29	957
19	27	51	1010	e219	e26	e30	312	8.4	4.8	84	323	410
20	25	693	164	e120	e20	e26	182	9.8	6.0	45	238	153
21	23	600	99	e140	e20	e23	115	8.5	7.2	126	140	86
22	97	92	90	e400	21	22	84	8.5	7.6	77	332	57
23	80	69	335	317	67	21	57	7.3	7.4	43	144	94
24	102	291	459	325	80	19	53	8.1	11	48	64	256
25	105	196	139	126	104	19	50	8.4	9.5	34	181	261
26	52	203	65	353	138	19	42	6.8	6.8	28	368	101
27	69	114	43	329	135	34	38	5.9	5.7	350	120	92
28	255	113	87	463	201	68	31	5.5	5.3	245	86	676
29	791	126	69	368	---	81	23	5.3	7.1	77	52	653
30	173	187	e40	652	---	89	18	6.6	15	65	62	259
31	98	---	e30	356	---	292	---	7.1	---	69	87	---
TOTAL	5786	6255	6864	4674.5	2836	4842	2612	344.4	196.5	2968	3346.3	5976
MEAN	187	208	221	151	101	156	87.1	11.1	6.55	95.7	108	199
MAX	918	1040	1010	652	592	553	312	24	15	350	368	957
MIN	23	23	19	6.0	20	19	18	5.3	4.1	26	9.3	31
AC-FT	11480	12410	13610	9270	5630	9600	5180	683	390	5890	6640	11850
CFSM	10.7	12.0	12.7	8.65	5.81	8.96	4.99	0.64	0.38	5.49	6.19	11.4
IN.	12.34	13.34	14.64	9.97	6.05	10.33	5.57	0.73	0.42	6.33	7.14	12.75

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

MEAN	187	208	221	151	101	156	87.1	21.7	12.8	61.7	66.8	190
MAX	187	208	221	151	101	156	87.1	32.3	19.0	95.7	108	199
(WY)	2005	2005	2005	2005	2005	2005	2005	2004	2004	2005	2005	2005
MIN	187	208	221	151	101	156	87.1	11.1	6.55	27.6	25.7	181
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004	2004

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005#	
ANNUAL TOTAL	46700.7			
ANNUAL MEAN	128		128	
HIGHEST ANNUAL MEAN			128	2005
LOWEST ANNUAL MEAN			128	2005
HIGHEST DAILY MEAN	1040	Nov 3	1440	Sep 21 2004
LOWEST DAILY MEAN	4.1	Jun 9	4.1	Jun 9 2005
ANNUAL SEVEN-DAY MINIMUM	4.4	Jun 5	4.4	Jun 5 2005
MAXIMUM PEAK FLOW	2380	Oct 13	a2570	Sep 21 2004
MAXIMUM PEAK STAGE	22.61	Oct 13	22.79	Sep 21 2004
INSTANTANEOUS LOW FLOW	b4.1	Jun 8	4.1	Jun 8 2005
ANNUAL RUNOFF (AC-FT)	92630		92690	
ANNUAL RUNOFF (CFSM)	7.34		7.34	
ANNUAL RUNOFF (INCHES)	99.61		99.68	
10 PERCENT EXCEEDS	326		326	
50 PERCENT EXCEEDS	63		63	
90 PERCENT EXCEEDS	7.6		7.6	

\# See Period of Record; partial year was used in monthly statistics
a From rating curve extended above 502 ft^3/s
b June 8-10
e Estimated

15087300 FALLS CREEK NEAR PETERSBURG—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2004 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: May 2004 to current year.

INSTRUMENTATION.-- Electronic water-temperature recorder since May 2004, set for 15-minute recording interval.

REMARKS.--No record from January 18-21, and May 5-11 due to probe icing and recorder malfunction. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on December 8. No variation was found in the temperature cross-section. The variation between mean stream temperature and recorded sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 22.0°C, June 24-25, 2004; minimum, 0.0°C, on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 19.0°C, June 8, 18 and 27; minimum, 0.0°C, on many days during winter.

Date	Time	Instantaneous discharge, cfs (00061)	Sample location, cross section ft from rt bank (72103)	Stream width, feet (00004)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
DEC						
08...	1025	28	10.0	42.0	2.3	0.0
08...	1026	28	20.0	42.0	2.3	0.0
08...	1027	28	30.0	42.0	2.3	0.0
08...	1028	28	40.0	42.0	2.3	0.0

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.5	8.5	9.0	4.5	4.0	4.5	4.0	3.5	4.0	0.0	0.0	0.0
2	9.5	8.5	9.0	4.5	4.0	4.5	4.5	4.0	4.5	0.0	0.0	0.0
3	9.5	8.0	8.5	4.5	4.0	4.0	5.0	4.5	5.0	0.0	0.0	0.0
4	9.0	8.5	8.5	5.0	4.5	5.0	4.5	3.5	4.0	0.0	0.0	0.0
5	9.5	9.0	9.5	4.5	4.0	4.0	3.5	2.0	2.5	0.0	0.0	0.0
6	9.5	8.5	9.0	4.0	3.0	3.5	2.0	0.0	1.0	0.0	0.0	0.0
7	9.0	9.0	9.0	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0
8	9.0	8.5	9.0	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
9	9.0	8.5	9.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
10	9.0	9.0	9.0	1.5	1.0	1.0	0.5	0.0	0.0	0.0	0.0	0.0
11	9.0	8.5	8.5	1.0	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.0
12	8.5	7.0	7.5	0.5	0.0	0.5	1.0	0.5	0.5	0.0	0.0	0.0
13	9.5	7.5	8.5	2.5	0.5	1.5	1.5	0.5	1.0	0.0	0.0	0.0
14	9.5	9.5	9.5	3.5	2.5	3.0	1.5	1.0	1.5	0.0	0.0	0.0
15	9.5	9.0	9.5	4.0	3.5	4.0	2.0	1.5	1.5	0.0	0.0	0.0
16	9.0	8.0	8.0	4.0	4.0	4.0	3.0	2.0	2.5	0.0	0.0	0.0
17	8.0	6.0	6.5	4.0	3.5	4.0	3.5	3.0	3.0	0.0	0.0	0.0
18	6.0	4.5	5.0	3.5	2.5	3.0	4.5	3.5	4.0	---	---	---
19	4.5	3.0	3.5	3.0	2.5	2.5	4.5	4.0	4.0	---	---	---
20	3.0	3.0	3.0	4.0	3.0	3.5	4.0	3.0	3.5	---	---	---
21	3.0	2.5	3.0	5.0	4.0	4.5	3.0	2.0	2.5	---	0.0	---
22	3.5	3.0	3.0	4.5	4.0	4.0	3.0	2.0	2.5	0.0	0.0	0.0
23	3.5	3.5	3.5	4.0	3.5	3.5	3.5	3.0	3.5	0.0	0.0	0.0
24	3.5	3.0	3.0	3.5	3.0	3.5	4.0	3.0	3.5	0.0	0.0	0.0
25	4.0	3.5	3.5	3.5	3.0	3.5	3.0	1.5	2.5	0.0	0.0	0.0
26	4.0	3.0	3.5	3.5	3.5	3.5	1.5	0.0	0.5	0.5	0.0	0.0
27	3.5	3.0	3.0	3.5	3.0	3.0	0.0	0.0	0.0	0.5	0.0	0.5
28	4.0	3.5	4.0	3.5	3.0	3.5	0.5	0.0	0.5	0.5	0.0	0.5
29	5.0	4.0	5.0	4.0	3.5	4.0	0.5	0.0	0.5	0.5	0.5	0.5
30	5.5	5.0	5.0	4.0	3.5	4.0	0.0	0.0	0.0	0.5	0.5	0.5
31	5.0	4.5	4.5	---	---	---	0.0	0.0	0.0	1.0	0.5	1.0
MONTH	9.5	2.5	6.5	5.0	0.0	3.2	5.0	0.0	1.9	---	---	---

15087300 FALLS CREEK NEAR PETERSBURG—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	0.5	1.0	1.5	1.0	1.0	2.0	1.5	1.5	9.0	7.5	8.5
2	1.0	1.0	1.0	1.5	1.0	1.5	2.0	1.5	1.5	9.5	8.5	9.0
3	1.0	0.5	1.0	1.5	1.0	1.0	2.5	2.0	2.5	9.5	8.5	9.0
4	0.5	0.5	0.5	1.5	1.0	1.5	3.0	2.5	2.5	9.5	8.5	9.0
5	0.5	0.0	0.0	2.0	1.0	1.5	3.5	3.0	3.0	---	---	---
6	0.0	0.0	0.0	2.0	1.5	1.5	4.0	3.5	3.5	---	---	---
7	0.0	0.0	0.0	2.5	1.0	1.5	4.0	3.0	3.5	---	---	---
8	0.0	0.0	0.0	2.5	1.5	2.0	4.0	3.0	3.5	---	---	---
9	0.5	0.0	0.0	2.0	1.5	1.5	4.0	3.5	3.5	---	---	---
10	0.5	0.0	0.0	2.5	2.0	2.0	4.0	3.0	3.5	---	---	---
11	0.5	0.0	0.0	2.5	2.0	2.0	4.5	3.5	4.0	---	---	---
12	0.5	0.0	0.0	3.0	2.0	2.5	4.5	4.0	4.0	12.0	11.5	11.5
13	0.5	0.0	0.0	3.0	2.5	2.5	4.5	3.0	4.0	11.5	11.0	11.5
14	0.5	0.0	0.0	3.0	2.5	2.5	4.5	3.5	4.0	12.5	11.0	11.5
15	0.5	0.0	0.0	3.0	2.5	2.5	4.0	3.5	4.0	12.0	10.5	11.0
16	0.5	0.0	0.0	2.5	1.0	2.0	4.0	3.0	3.5	12.0	10.5	11.5
17	0.5	0.0	0.0	1.5	0.5	1.0	5.0	3.5	4.5	12.5	11.0	11.5
18	0.5	0.0	0.0	1.0	0.0	0.5	5.0	4.0	4.5	12.5	10.0	11.0
19	0.5	0.0	0.0	0.5	0.0	0.0	4.5	4.0	4.5	13.0	11.0	11.5
20	0.5	0.0	0.0	0.5	0.0	0.0	5.0	4.5	4.5	12.0	11.0	11.5
21	0.5	0.0	0.0	0.5	0.0	0.0	6.0	5.0	5.5	13.0	11.0	12.0
22	0.5	0.0	0.0	0.5	0.0	0.5	6.0	5.0	5.5	12.0	10.5	11.0
23	0.5	0.0	0.0	1.0	0.0	0.5	7.0	5.0	6.0	12.0	10.5	11.5
24	0.5	0.0	0.0	1.0	0.0	0.5	8.0	5.5	7.0	13.0	11.5	12.0
25	0.5	0.0	0.0	1.0	0.5	0.5	8.5	6.5	7.5	13.0	11.0	12.0
26	0.5	0.0	0.0	3.0	1.0	2.0	9.5	7.0	8.0	14.5	12.0	13.0
27	0.5	0.0	0.5	3.5	2.5	3.0	10.0	7.5	9.0	15.5	13.0	14.0
28	1.0	0.5	1.0	2.5	2.0	2.0	10.0	8.0	9.0	15.5	12.5	14.0
29	---	---	---	2.0	2.0	2.0	10.0	8.0	9.0	14.5	13.5	14.0
30	---	---	---	2.5	2.0	2.0	9.0	7.5	8.0	15.5	13.0	13.5
31	---	---	---	2.5	2.0	2.5	---	---	---	15.5	13.0	14.0
MONTH	1.0	0.0	0.2	3.5	0.0	1.5	10.0	1.5	4.8	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	16.5	13.0	14.5	15.0	13.0	14.0	13.5	12.0	13.0	11.5	11.0	11.0
2	16.5	13.0	14.5	13.0	12.5	13.0	13.5	12.0	13.0	11.5	11.0	11.0
3	14.5	13.0	13.5	12.5	12.0	12.0	13.0	12.0	12.5	12.0	11.0	11.5
4	15.0	13.0	13.5	12.5	11.5	12.0	12.5	12.0	12.0	11.5	10.5	11.0
5	16.0	12.0	13.5	13.0	12.5	12.5	12.5	12.0	12.0	11.5	10.5	11.0
6	16.5	13.0	14.5	12.5	12.0	12.5	13.0	12.0	12.5	11.5	11.0	11.5
7	17.0	14.0	15.5	12.5	12.0	12.5	13.5	12.5	13.0	11.5	11.0	11.5
8	19.0	15.5	16.5	13.0	11.5	12.0	14.0	12.5	13.0	11.5	11.0	11.5
9	17.0	15.0	16.0	13.0	12.0	12.5	15.0	12.5	13.5	11.0	10.0	10.5
10	16.5	14.5	15.5	12.5	11.5	12.0	15.5	13.5	14.5	11.0	10.0	10.5
11	15.5	14.0	15.0	13.0	12.0	12.5	16.0	14.0	15.0	11.0	10.5	11.0
12	15.5	14.0	14.5	13.5	12.5	13.0	16.0	14.5	15.0	11.5	10.5	11.0
13	15.0	13.5	14.0	13.0	12.5	13.0	16.5	15.0	15.5	11.5	11.0	11.0
14	15.0	13.5	14.0	13.0	12.0	12.5	16.5	15.0	15.5	11.5	11.0	11.5
15	14.5	12.5	13.5	12.5	12.0	12.0	16.0	15.0	15.5	11.0	10.0	10.5
16	15.5	12.5	14.0	14.0	12.0	13.0	16.5	15.0	15.5	11.0	10.5	10.5
17	17.5	13.5	15.0	14.5	13.0	13.5	15.5	14.5	15.0	11.0	10.5	10.5
18	19.0	14.5	16.5	14.0	13.0	13.5	15.5	14.0	15.0	10.5	10.0	10.5
19	17.5	16.0	16.5	14.0	13.0	13.5	14.0	13.5	14.0	10.0	10.0	10.0
20	17.5	15.5	16.0	15.0	13.5	14.0	14.0	13.0	13.0	10.0	10.0	10.0
21	15.5	14.0	14.5	14.0	13.0	13.5	13.0	12.5	12.5	10.5	9.5	10.0
22	14.0	13.0	13.5	14.5	12.5	13.5	12.5	12.0	12.5	10.0	9.5	9.5
23	13.5	13.0	13.5	13.5	12.5	13.0	13.0	12.0	12.5	10.0	9.5	9.5
24	14.5	12.5	13.5	14.0	12.5	13.5	13.0	12.0	12.5	10.0	10.0	10.0
25	15.5	13.5	14.5	14.0	13.0	13.5	13.0	12.5	12.5	10.0	10.0	10.0
26	17.5	14.0	15.5	14.0	13.5	13.5	12.5	12.0	12.5	10.0	9.0	9.5
27	19.0	15.5	16.5	13.5	12.5	13.0	12.5	12.0	12.0	9.0	8.0	8.0
28	17.0	16.0	16.5	13.5	12.5	13.0	12.5	12.0	12.0	9.0	8.0	8.5
29	16.0	15.0	15.5	13.5	12.5	13.0	12.0	11.5	12.0	9.0	9.0	9.0
30	15.0	14.5	14.5	12.5	12.0	12.5	12.0	11.5	12.0	9.0	8.5	9.0
31	---	---	---	13.0	12.0	12.5	12.0	11.5	11.5	---	---	---
MONTH	19.0	12.0	14.8	15.0	11.5	12.9	16.5	11.5	13.3	12.0	8.0	10.3

15087500 EAST FORK HOBO CREEK NEAR PETERSBURG

LOCATION.--Lat 56°47'38", long 132°52'23", in NW¼ NE¼ NE¼ sec. 06, T. 59 S., R. 80 E. (Petersburg D-3 quad.) Hydrologic Unit 19010202, on left bank 50 ft upstream from the culvert on Fredrick Point Road, 4.5 mi east of Petersburg, 1000 ft upstream from the mouth.

DRAINAGE AREA.--0.45 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 47 ft above sea level, by barometer.

REMARKS.--Records fair, except for discharges above 71 ft^3/s, and estimated daily discharges, which are poor. GOES satellite telemetry at station.

EXTREMES FOR WATER YEAR 2004.--Maximum discharge for period October 15, 2003 through September 2004, 119 ft^3/s, September 21, gage height 12.89 ft, minimum discharge, 0.17 ft^3/s, June 25-26, August 25-26.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	0.44	21	e0.33	0.22	0.43	1.7	4.3	3.3	0.34	0.36	0.33
2	---	0.38	11	e0.31	0.21	0.41	11	4.2	2.8	0.32	0.56	0.39
3	---	0.34	1.8	e0.29	0.24	0.46	6.8	4.0	1.6	0.29	1.4	1.2
4	---	0.30	0.90	e0.28	0.27	1.0	4.7	2.9	1.1	0.23	0.65	3.1
5	---	0.27	2.1	e0.26	7.0	2.2	2.0	1.5	1.9	1.8	0.60	1.4
6	---	0.25	1.2	e0.25	5.7	3.9	1.3	1.1	1.1	7.8	3.0	2.4
7	---	0.24	0.72	e0.50	6.7	14	3.8	1.3	0.97	1.2	1.1	2.9
8	---	0.23	0.51	e1.0	13	16	2.8	1.4	0.78	0.56	0.51	0.83
9	---	1.9	e0.45	e1.8	14	3.1	2.0	1.5	0.59	0.40	0.37	0.47
10	---	0.94	0.41	e3.6	6.3	7.3	3.4	1.7	0.48	0.33	0.30	0.36
11	---	3.4	0.40	e6.0	2.4	6.3	4.8	1.4	0.44	0.35	0.33	0.32
12	---	48	1.1	e10	2.2	1.6	3.7	1.6	0.64	0.30	0.28	0.41
13	---	31	0.65	e15	2.3	1.0	2.5	2.0	1.3	0.26	0.24	12
14	---	2.5	0.43	27	1.7	1.7	1.8	2.0	2.0	0.23	0.22	2.8
15	e1.3	3.9	8.6	5.9	0.82	4.3	1.1	1.4	0.71	0.21	0.20	2.0
16	e1.1	1.9	9.6	6.0	0.68	6.7	0.71	1.6	0.50	0.20	0.19	1.2
17	1.7	1.1	11	15	0.72	1.6	0.62	2.0	0.43	0.22	0.18	0.78
18	2.2	0.90	26	14	4.5	0.85	0.93	2.4	0.37	0.21	0.18	0.60
19	2.6	0.54	23	4.0	7.6	0.63	0.75	2.3	0.33	0.20	0.19	0.51
20	1.9	0.41	7.6	12	15	0.55	0.61	2.6	0.29	0.38	0.40	22
21	4.5	0.35	12	11	5.8	0.52	0.61	2.4	0.25	0.51	0.28	29
22	6.6	0.38	27	9.1	2.2	1.1	3.0	1.3	0.22	0.36	0.23	12
23	8.6	0.63	11	2.8	1.6	0.87	3.5	1.3	0.20	0.27	0.20	36
24	7.4	1.4	4.8	1.0	1.3	1.1	14	3.3	0.18	0.23	0.18	17
25	35	1.3	4.8	e0.45	0.83	2.2	15	3.1	0.17	0.36	0.17	3.3
26	26	0.75	1.4	e0.34	0.66	2.0	9.3	2.1	0.17	0.40	0.22	3.0
27	2.5	0.63	0.75	e0.30	0.56	3.0	2.8	1.4	0.21	0.31	4.0	14
28	4.7	0.44	0.59	e0.28	0.50	9.4	1.5	1.4	0.25	4.1	1.9	2.1
29	1.3	0.38	0.45	e0.26	0.46	12	1.2	1.9	0.22	1.1	0.87	1.1
30	0.74	6.1	0.40	e0.24	---	7.7	2.6	3.2	0.21	0.55	0.54	0.84
31	0.54	---	e0.36	e0.23	---	2.2	---	4.6	---	0.39	0.40	---
TOTAL	---	111.30	192.02	149.52	105.47	116.12	110.53	69.2	23.71	24.41	20.25	174.34
MEAN	---	3.71	6.19	4.82	3.64	3.75	3.68	2.23	0.79	0.79	0.65	5.81
MAX	---	48	27	27	15	16	15	4.6	3.3	7.8	4.0	36
MIN	---	0.23	0.36	0.23	0.21	0.41	0.61	1.1	0.17	0.20	0.17	0.32
AC-FT	---	221	381	297	209	230	219	137	47	48	40	346
CFSM	---	8.24	13.8	10.7	8.08	8.32	8.19	4.96	1.76	1.75	1.45	12.9
IN.	---	9.20	15.87	12.36	8.72	9.60	9.14	5.72	1.96	2.02	1.67	14.41

e Estimated

15087500 EAST FORK HOBO CREEK NEAR PETERSBURG—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.68	20	9.2	e0.45	15	6.0	1.8	0.80	0.33	4.1	0.71	6.5
2	0.59	5.9	34	e0.40	5.0	8.6	1.5	1.0	0.29	2.0	0.55	2.6
3	0.53	37	6.8	e0.36	2.4	9.1	3.3	1.2	0.27	8.7	9.0	1.0
4	4.2	5.2	1.8	e0.32	e2.0	11	4.1	1.1	0.26	3.4	4.4	0.73
5	18	2.1	0.94	e0.30	e1.7	3.4	1.6	1.1	0.25	3.9	6.4	0.61
6	12	1.2	0.62	e0.29	e1.4	5.3	2.5	0.96	0.23	3.6	6.2	12
7	7.7	0.92	e0.40	e0.27	e1.1	5.9	1.0	1.0	0.22	10	1.5	13
8	3.2	0.76	e0.33	e0.25	e0.90	12	0.84	0.96	0.22	1.9	0.78	2.3
9	3.6	0.67	e0.20	e0.23	e0.80	5.8	3.9	1.1	0.21	1.7	0.58	0.97
10	8.3	0.60	e0.50	e0.22	e0.70	13	3.7	1.1	0.22	7.4	0.47	0.69
11	2.5	0.55	3.1	e0.20	e0.60	6.6	3.0	1.3	0.26	1.5	0.39	0.57
12	17	0.68	2.8	e0.19	e0.55	2.3	1.4	1.3	0.34	0.74	0.35	0.57
13	9.1	5.9	6.6	e0.18	e0.50	1.4	0.82	1.7	0.28	0.78	0.31	2.1
14	1.8	8.3	8.5	e0.17	e0.48	0.94	0.69	2.7	0.92	2.1	0.28	0.85
15	1.8	6.5	9.1	e0.16	e0.49	0.77	1.5	1.1	0.74	4.3	0.27	0.64
16	1.2	4.9	17	e0.60	0.52	0.62	1.7	1.0	0.44	1.1	0.26	0.53
17	0.87	3.6	10	e17	1.00	0.51	1.3	0.75	0.33	1.5	0.25	7.1
18	0.68	1.6	30	e15	0.80	0.43	1.4	0.57	0.28	1.8	1.8	28
19	0.56	2.6	15	13	0.59	0.36	15	0.73	0.27	1.3	11	9.8
20	0.51	29	2.2	4.8	0.50	0.33	5.6	0.62	0.39	1.2	3.5	3.8
21	2.5	6.0	1.2	4.2	e0.45	0.30	4.2	0.66	0.37	3.9	3.7	2.0
22	4.1	1.6	2.2	15	0.47	0.31	2.1	0.51	0.45	1.3	6.8	1.1
23	1.5	5.5	15	8.2	5.6	0.30	1.7	0.48	0.59	0.97	1.8	2.6
24	4.6	8.0	14	5.6	2.5	0.29	2.4	0.59	0.83	0.90	0.83	5.1
25	1.9	9.4	2.1	3.8	2.0	0.28	2.5	0.45	0.48	0.73	6.8	3.1
26	0.98	5.4	0.90	13	4.1	0.32	2.2	0.39	0.37	0.78	4.9	1.5
27	2.5	2.2	0.65	9.3	4.1	1.9	2.4	0.35	0.31	11	2.9	4.4
28	12	2.6	2.4	12	6.8	1.4	1.8	0.32	0.47	3.2	1.2	17
29	20	3.4	1.1	10	---	0.79	1.2	0.33	1.2	1.3	1.0	15
30	4.0	4.8	0.58	15	---	1.7	0.82	0.49	0.97	1.0	2.5	8.7
31	2.5	---	e0.50	11	---	7.2	---	0.41	---	0.90	5.1	---
TOTAL	151.40	186.88	199.72	161.49	63.05	109.15	77.97	27.07	12.79	89.00	86.53	154.86
MEAN	4.88	6.23	6.44	5.21	2.25	3.52	2.60	0.87	0.43	2.87	2.79	5.16
MAX	20	37	34	17	15	13	15	2.7	1.2	11	11	28
MIN	0.51	0.55	0.20	0.16	0.45	0.28	0.69	0.32	0.21	0.73	0.25	0.53
AC-FT	300	371	396	320	125	216	155	54	25	177	172	307
CFSM	10.9	13.8	14.3	11.6	5.00	7.82	5.78	1.94	0.95	6.38	6.20	11.5
IN.	12.52	15.45	16.51	13.35	5.21	9.02	6.45	2.24	1.06	7.36	7.15	12.80

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

MEAN	4.88	4.97	6.32	5.02	2.96	3.63	3.14	1.55	0.61	1.83	1.72	5.49
MAX	4.88	6.23	6.44	5.21	3.64	3.75	3.68	2.23	0.79	2.87	2.79	5.81
(WY)	2005	2005	2005	2005	2004	2004	2004	2004	2004	2005	2005	2004
MIN	4.88	3.71	6.19	4.82	2.25	3.52	2.60	0.87	0.43	0.79	0.65	5.16
(WY)	2005	2004	2004	2004	2005	2005	2005	2005	2005	2004	2004	2005

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005#	
ANNUAL TOTAL	1331.55		1319.91			
ANNUAL MEAN	3.64		3.62		3.62	
HIGHEST ANNUAL MEAN					3.62	2005
LOWEST ANNUAL MEAN					3.62	2005
HIGHEST DAILY MEAN	37	Nov 3	37	Nov 3	48	Nov 12 2003
LOWEST DAILY MEAN	a0.17	Jun 25	0.16	Jan 15	0.16	Jan 15 2005
ANNUAL SEVEN-DAY MINIMUM	0.20	Jun 21	0.19	Jan 9	0.19	Jan 9 2005
MAXIMUM PEAK FLOW			97	Nov 3	119	Sep 21 2004
MAXIMUM PEAK STAGE			12.68	Nov 3	12.89	Sep 21 2004
INSTANTANEOUS LOW FLOW			b	Jan 12	0.17	Jun 25 2004
ANNUAL RUNOFF (AC-FT)	2640		2620		2620	
ANNUAL RUNOFF (CFSM)	8.08		8.04		8.04	
ANNUAL RUNOFF (INCHES)	110.07		109.11		109.19	
10 PERCENT EXCEEDS	10		10		10	
50 PERCENT EXCEEDS	1.5		1.4		1.4	
90 PERCENT EXCEEDS	0.25		0.32		0.32	

\# See Period of Record; partial years used in monthly statistics
a June 25-26, Aug. 25-26
b Not determined, see lowest daily mean
e Estimated

15087500 EAST FORK HOBO CREEK NEAR PETERSBURG—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--November 2003 to September 2005.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: November 2003 to September 2005.

INSTRUMENTATION.--Electronic water-temperature recorder since November 2004. Recording interval changed to 15-minutes.

REMARKS.--Water-discharge records are computed daily. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with the stream average by cross section on December 8, 2004. No variation was found within the cross section, or between mean stream temperature and sensor temperature. Record is missing from February 04 to 15 due to recorder malfunction.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 14.0°C, August 17-18, 2004; minimum, 0.0°C on many days during winter.

EXTREMES FOR CURRENT PERIOD.--
WATER TEMPERATURE: Maximum, 13.0°C, August 12-16, 2005; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Sample location, cross section ft from rt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
DEC							
08...	1231	6.5	2.0	9.89	.34	0.0	3.5
08...	1232	6.5	4.0	9.89	.34	0.0	3.5
08...	1233	6.5	6.0	9.89	.34	0.0	3.5
08...	1234	6.5	8.0	9.89	.34	0.0	3.5

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.0	8.0	8.5	4.0	4.0	4.0	3.0	3.0	3.0	0.5	0.5	0.5
2	9.0	8.5	9.0	4.0	3.5	4.0	3.5	3.0	3.0	0.5	0.0	0.5
3	8.5	8.0	8.5	4.0	3.5	4.0	3.5	2.5	3.0	0.5	0.0	0.0
4	9.0	8.5	8.5	3.5	3.5	3.5	3.0	2.0	2.5	0.5	0.0	0.0
5	9.0	8.5	9.0	3.5	2.5	3.0	2.0	1.0	1.5	0.0	0.0	0.0
6	8.5	8.0	8.5	3.0	2.5	2.5	1.0	0.0	0.5	0.5	0.0	0.0
7	8.5	8.0	8.0	2.5	2.0	2.0	0.0	0.0	0.0	0.5	0.0	0.5
8	8.0	8.0	8.0	2.0	1.5	2.0	0.0	0.0	0.0	0.5	0.5	0.5
9	8.5	8.0	8.0	2.0	1.5	2.0	1.0	0.0	0.5	0.5	0.5	0.5
10	8.5	8.0	8.0	1.5	1.0	1.5	1.0	0.5	1.0	0.5	0.0	0.5
11	8.0	7.5	7.5	1.5	0.5	1.0	1.0	1.0	1.0	1.0	0.0	0.5
12	8.5	7.0	7.5	2.5	1.0	1.5	1.5	1.0	1.0	1.0	0.5	1.0
13	8.5	8.0	8.5	3.0	2.5	2.5	1.5	1.0	1.0	1.0	0.5	0.5
14	8.5	8.5	8.5	3.5	3.0	3.0	1.5	1.0	1.5	0.5	0.5	0.5
15	8.5	8.0	8.0	4.0	3.5	3.5	1.5	1.5	1.5	0.5	0.5	0.5
16	8.0	6.5	7.5	4.0	3.5	3.5	2.0	1.5	2.0	0.5	0.0	0.5
17	6.5	5.5	6.0	3.5	3.0	3.5	2.5	2.0	2.0	0.5	0.0	0.0
18	5.5	4.5	5.0	3.0	2.5	2.5	3.0	2.5	2.5	0.0	0.0	0.0
19	4.5	4.0	4.0	3.0	2.5	3.0	3.0	2.5	2.5	0.0	0.0	0.0
20	4.0	4.0	4.0	4.0	3.0	3.5	2.5	2.0	2.5	0.0	0.0	0.0
21	4.5	3.5	4.0	3.5	3.5	3.5	2.0	1.5	2.0	0.0	0.0	0.0
22	4.5	4.0	4.5	3.5	3.0	3.5	2.0	1.5	2.0	0.5	0.0	0.0
23	4.5	4.0	4.0	3.0	2.5	3.0	2.5	2.0	2.5	0.5	0.5	0.5
24	4.0	3.5	4.0	3.0	3.0	3.0	2.5	2.0	2.5	1.0	0.5	0.5
25	4.5	4.0	4.0	3.0	3.0	3.0	2.0	1.0	1.5	1.0	0.5	0.5
26	4.0	4.0	4.0	3.0	3.0	3.0	1.0	0.5	0.5	1.0	0.5	1.0
27	4.5	4.0	4.0	3.0	3.0	3.0	0.5	0.0	0.0	1.0	1.0	1.0
28	4.5	4.0	4.5	3.0	3.0	3.0	0.5	0.0	0.5	1.0	0.5	1.0
29	4.5	4.0	4.5	3.0	3.0	3.0	1.0	0.0	0.5	1.0	1.0	1.0
30	4.5	4.0	4.5	3.0	3.0	3.0	0.0	0.0	0.0	1.5	1.0	1.0
31	4.0	4.0	4.0	---	---	---	0.5	0.0	0.5	1.5	1.0	1.0
MONTH	9.0	3.5	6.3	4.0	0.5	2.9	3.5	0.0	1.5	1.5	0.0	0.5

15087500 EAST FORK HOBO CREEK NEAR PETERSBURG—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	0.5	1.0	2.0	1.5	1.5	2.0	1.5	2.0	6.5	5.0	6.0
2	1.0	1.0	1.0	2.0	1.5	1.5	2.0	1.5	1.5	6.5	5.5	6.0
3	1.5	0.5	1.0	2.0	1.5	2.0	2.5	2.0	2.0	6.5	5.5	6.0
4	---	---	---	2.0	1.5	2.0	3.0	2.0	2.5	6.5	5.5	6.0
5	---	---	---	2.0	2.0	2.0	3.0	2.5	3.0	6.5	5.5	6.0
6	---	---	---	2.5	2.0	2.0	3.0	2.5	3.0	6.5	5.0	6.0
7	---	---	---	2.5	2.0	2.0	3.0	2.5	3.0	7.5	5.5	6.5
8	---	---	---	2.5	2.0	2.5	3.5	2.0	2.5	7.5	6.0	7.0
9	---	---	---	3.0	2.5	2.5	3.5	3.0	3.0	8.0	6.5	7.0
10	---	---	---	3.0	2.5	3.0	3.5	3.0	3.0	8.5	7.0	7.5
11	---	---	---	3.0	2.5	3.0	3.5	3.0	3.5	9.0	8.0	8.5
12	---	---	---	3.0	3.0	3.0	3.5	2.5	3.0	8.5	8.0	8.0
13	---	---	---	3.0	2.5	3.0	3.5	2.5	3.0	8.5	8.0	8.0
14	---	---	---	3.0	2.5	3.0	3.5	3.0	3.0	9.0	8.0	8.5
15	---	---	---	3.0	2.0	3.0	3.5	2.5	3.0	8.5	7.5	8.0
16	0.5	0.0	0.5	2.0	1.5	2.0	4.0	3.0	3.5	8.5	7.5	8.0
17	1.0	0.5	0.5	1.5	1.0	1.0	4.0	3.0	3.5	8.5	7.5	8.0
18	1.0	0.0	1.0	1.0	0.5	1.0	4.0	3.0	3.5	9.0	7.0	8.0
19	1.0	0.0	1.0	0.5	0.0	0.0	4.0	3.5	4.0	9.0	8.0	8.5
20	1.0	0.5	0.5	0.0	0.0	0.0	4.5	3.5	4.0	9.0	8.0	8.5
21	1.0	0.0	0.0	0.5	0.0	0.0	4.5	4.0	4.5	9.0	8.0	8.5
22	1.0	1.0	1.0	1.5	0.5	1.0	4.5	4.0	4.0	8.5	7.0	8.0
23	1.0	0.0	1.0	1.0	0.5	1.0	5.0	4.0	4.5	8.5	7.5	8.5
24	1.5	1.0	1.0	1.0	0.0	0.5	5.5	4.5	5.0	9.0	8.0	8.5
25	1.5	1.0	1.5	2.0	0.5	1.5	6.0	5.0	5.5	9.0	7.5	8.5
26	1.5	1.0	1.0	3.0	2.0	2.5	6.0	5.0	5.5	9.5	8.5	9.0
27	1.5	1.0	1.5	2.5	2.0	2.5	6.5	5.5	6.0	10.0	9.0	9.5
28	1.5	1.5	1.5	2.5	1.5	2.0	7.0	5.5	6.0	10.0	8.0	9.0
29	---	---	---	2.5	2.0	2.0	6.5	5.5	6.0	9.5	9.0	9.0
30	---	---	---	2.5	2.0	2.0	6.5	4.5	5.5	9.5	9.0	9.0
31	---	---	---	2.5	2.0	2.5	---	---	---	10.0	8.5	9.0
MONTH	---	---	---	3.0	0.0	1.9	7.0	1.5	3.7	10.0	5.0	7.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.0	8.5	9.5	11.0	10.5	11.0	11.0	10.5	11.0	10.5	10.5	10.5
2	10.0	8.0	9.0	11.0	10.5	11.0	11.5	10.5	11.0	10.5	10.0	10.5
3	9.5	8.0	9.0	11.0	10.5	10.5	11.5	11.0	11.5	10.5	10.0	10.5
4	10.0	9.0	9.5	10.5	10.0	10.5	11.5	11.0	11.0	10.5	9.5	10.0
5	10.0	8.0	9.0	11.0	10.5	11.0	11.5	11.0	11.5	11.0	10.0	10.5
6	10.5	8.5	9.5	11.0	10.5	10.5	11.5	11.0	11.0	11.0	10.5	10.5
7	11.0	9.0	10.0	11.0	10.5	10.5	11.5	10.5	11.0	11.0	10.5	11.0
8	11.5	10.0	10.5	10.5	10.0	10.5	11.5	10.5	11.0	11.0	10.0	10.5
9	11.0	9.0	10.0	10.5	10.0	10.5	12.0	11.0	11.5	10.0	9.5	10.0
10	11.0	10.0	10.5	10.5	10.5	10.5	12.5	11.0	11.5	10.5	9.5	10.0
11	10.5	9.5	10.0	11.0	10.5	10.5	12.5	11.5	12.0	10.5	10.0	10.5
12	10.0	9.5	10.0	11.0	10.0	10.5	13.0	11.5	12.5	10.5	10.0	10.5
13	10.0	8.5	9.5	11.0	10.5	11.0	13.0	12.0	12.5	11.0	10.5	10.5
14	10.0	9.0	9.5	11.0	10.5	11.0	13.0	12.0	12.5	10.5	10.0	10.5
15	9.5	8.5	9.0	11.0	10.5	11.0	13.0	12.5	12.5	10.0	9.5	9.5
16	10.0	8.0	9.5	11.5	10.0	11.0	13.0	12.0	12.5	10.5	9.5	10.0
17	11.0	9.0	10.0	11.5	11.0	11.5	12.5	11.0	12.0	10.5	10.0	10.0
18	12.0	10.0	11.0	11.5	11.0	11.0	12.5	12.0	12.5	10.0	9.5	10.0
19	11.5	10.5	11.0	11.5	11.0	11.0	13.0	12.5	12.5	9.5	9.0	9.5
20	11.0	10.0	10.5	11.5	11.0	11.0	12.5	11.5	12.0	9.5	9.0	9.5
21	10.0	9.5	10.0	11.5	11.0	11.5	12.0	11.5	11.5	9.5	8.5	9.0
22	10.0	9.0	9.5	11.5	10.5	11.0	11.5	11.5	11.5	9.0	8.5	9.0
23	10.0	9.5	10.0	11.0	10.5	11.0	11.5	11.0	11.5	9.5	9.0	9.5
24	10.0	9.5	9.5	11.5	10.5	11.0	12.0	10.5	11.0	10.0	9.5	9.5
25	10.5	9.5	10.0	11.5	10.5	11.0	12.5	11.5	12.0	9.5	9.0	9.5
26	11.5	9.5	10.5	12.0	11.0	11.5	11.5	11.0	11.5	9.0	8.0	8.5
27	12.0	10.5	11.0	12.0	11.5	12.0	11.5	11.0	11.0	8.0	7.5	8.0
28	11.5	11.0	11.0	12.0	11.5	11.5	11.0	10.5	11.0	9.0	8.0	8.5
29	11.5	11.0	11.0	11.5	11.0	11.0	11.0	10.5	11.0	8.5	8.5	8.5
30	11.5	10.5	11.0	11.5	10.5	11.0	11.5	11.0	11.0	8.5	8.0	8.5
31	---	---	---	11.5	11.0	11.0	11.0	10.5	11.0	---	---	---
MONTH	12.0	8.0	10.0	12.0	10.0	11.0	13.0	10.5	11.6	11.0	7.5	9.8

15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA

LOCATION.--Lat 57°07'31", long 135°19'54", in SW¼ SW¼ NE¼ sec. 1, T. 55 S., R. 63 E. (Sitka A-4 quad), Hydrologic Unit 19010203, on Baranof Island, in Tongass National Forest, on right bank 2.3 mi upstream from mouth, and 4.3 mi north of Sitka.

DRAINAGE AREA.--4.29 mi2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 2003 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 100 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharge. Records fair. GOES satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	43	79	204	12	165	44	10	12	4.4	11	13	65
2	35	65	432	12	72	35	10	11	4.4	29	11	34
3	26	311	146	11	35	27	9.7	11	3.9	28	10	23
4	38	84	50	11	22	34	11	10	3.6	20	16	17
5	70	43	30	15	15	25	12	9.7	3.7	13	50	16
6	47	30	22	12	12	19	13	9.7	3.2	9.5	40	85
7	59	24	17	9.8	22	24	11	9.6	3.1	9.3	25	267
8	34	20	14	8.5	181	38	11	9.7	2.9	7.3	17	84
9	25	18	30	7.5	67	36	13	9.6	2.7	6.3	13	40
10	30	15	21	7.3	79	130	16	9.8	3.1	6.5	11	25
11	22	14	155	5.8	41	75	14	9.5	4.0	5.8	9.4	21
12	107	14	92	4.8	23	44	14	9.8	3.3	5.5	8.1	24
13	109	21	49	5.3	16	30	11	11	2.7	7.4	7.5	78
14	38	64	67	5.1	14	22	9.8	12	8.0	7.2	7.0	42
15	28	119	41	4.9	13	17	8.9	9.8	6.5	10	6.9	24
16	23	82	162	9.6	48	14	8.5	7.8	4.1	7.8	6.4	17
17	19	52	168	38	32	12	9.6	7.0	3.3	77	6.0	51
18	16	39	169	97	18	9.7	12	6.8	3.0	110	31	181
19	14	156	113	178	13	8.0	182	6.7	3.1	40	23	285
20	13	561	58	81	11	7.4	69	6.3	4.0	22	19	124
21	20	157	35	49	10	7.0	74	6.3	5.9	16	18	54
22	26	55	87	55	13	6.9	41	5.8	5.2	14	152	38
23	16	42	371	40	27	6.3	35	5.6	4.9	13	49	108
24	38	137	370	29	23	5.9	36	5.6	5.2	10	27	362
25	25	102	67	22	17	5.5	34	5.4	4.3	9.2	221	108
26	17	86	37	36	14	5.5	30	5.2	3.6	24	81	52
27	85	66	43	50	16	8.0	28	6.3	3.2	70	39	38
28	154	96	64	51	43	7.4	26	5.5	3.3	37	21	162
29	195	59	27	51	---	7.7	20	4.7	4.1	22	18	237
30	69	100	17	84	---	8.6	15	5.0	3.7	16	140	153
31	44	---	14	86	---	15	---	4.5	---	15	149	---
TOTAL	1485	2711	3172	1088.6	1062	734.9	794.5	248.7	120.4	678.8	1245.3	2815
MEAN	47.9	90.4	102	35.1	37.9	23.7	26.5	8.02	4.01	21.9	40.2	93.8
MAX	195	561	432	178	181	130	182	12	8.0	110	221	362
MIN	13	14	14	4.8	10	5.5	8.5	4.5	2.7	5.5	6.0	16
AC-FT	2950	5380	6290	2160	2110	1460	1580	493	239	1350	2470	5580
CFSM	11.2	21.1	23.9	8.19	8.84	5.53	6.17	1.87	0.94	5.10	9.36	21.9
IN.	12.88	23.51	27.51	9.44	9.21	6.37	6.89	2.16	1.04	5.89	10.80	24.41

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

MEAN	47.9	68.5	70.5	36.9	44.6	27.5	32.2	19.5	7.26	16.8	23.9	76.8
MAX	47.9	90.4	102	38.7	51.1	31.3	37.9	31.0	10.5	21.9	40.2	93.8
(WY)	2005	2005	2005	2004	2004	2004	2004	2004	2004	2005	2005	2005
MIN	47.9	46.6	38.7	35.1	37.9	23.7	26.5	8.02	4.01	11.7	7.55	59.7
(WY)	2005	2004	2004	2005	2005	2005	2005	2005	2005	2004	2004	2004

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005	
ANNUAL TOTAL	15821.1		16156.2			
ANNUAL MEAN	43.2		44.3		44.3	
HIGHEST ANNUAL MEAN					44.3	2005
LOWEST ANNUAL MEAN					44.3	2005
HIGHEST DAILY MEAN	561	Nov 20	561	Nov 20	561	Nov 20 2004
LOWEST DAILY MEAN	2.5	Jul 19	a2.7	Jun 9	2.5	Jul 19 2004
ANNUAL SEVEN-DAY MINIMUM	2.6	Jul 17	3.1	Jun 7	2.6	Jul 17 2004
MAXIMUM PEAK FLOW			b1330	Nov 20	1330	Nov 20 2004
MAXIMUM PEAK STAGE			14.91	Nov 20	14.91	Nov 20 2004
INSTANTANEOUS LOW FLOW			c2.5	Jun 13	d2.4	Jul 19 2004
ANNUAL RUNOFF (AC-FT)	31380		32050		32070	
ANNUAL RUNOFF (CFSM)	10.1		10.3		10.3	
ANNUAL RUNOFF (INCHES)	137.19		140.10		140.19	
10 PERCENT EXCEEDS	101		109		109	
50 PERCENT EXCEEDS	22		20		20	
90 PERCENT EXCEEDS	4.5		5.5		5.5	

a June 09 and 13, 2005
b Nov. 20, and Dec. 02
c June 13-14
d July 19-20, 2004

15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 2003 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE:October 2003 to current year.

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

REMARKS.--
2004: Temperature record started on October 23. No record from June 21 to July 5, July 8-25, and August 7-26 when probe out of water. Records represent water temperature at sensor within 0.5°C.

2005: No record when probe buried in gravel April 19 to May 19, out of water June 3-13, and damaged June 19 to July 19. Records represent water temperature at sensor within 0.5°C. Temperature at the sensor was compared with stream average by cross section on November 16, January 10, March 2, May 19, and July 19. No variation was found within the cross section. The variation between mean stream temperature and temperature at the sensor is less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum recorded, 12.0°C July 27-28, 2004, and August 18, and 25, 2005, but may have been higher during period of missing record; minimum, 0.5°C, February 7-8, 2004, and January 17-18, 2005.

EXTREMES FOR WATER YEAR 2004.--
WATER TEMPERATURE: Maximum recorded, 12.0°C, July 27-28, but may have been higher during period of missing record; minimum, 0.5°C, February 7-8.

EXTREMES FOR WATER YEAR 2005.--
WATER TEMPERATURE: Maximum recorded, 12.0°C, August 18, and 25, but may have been higher during period of missing record; minimum, 0.5°C, January 17-18.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Location in X-sect. looking dwnstrm ft from l bank (00009)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Temper-ature, air, deg C (00020)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
NOV									
16...	1347	34.0	46	7.4	4.3	20.0	747	11.6	91
16...	1349	27.0	46	7.3	4.3	20.0	747	11.4	89
16...	1350	20.0	46	7.3	4.3	20.0	747	11.1	87
16...	1352	13.0	46	7.3	4.3	20.0	747	10.8	85
16...	1354	6.00	45	7.3	4.3	20.0	747	10.7	84
JAN									
10...	1423	2.50	65	7.4	2.5	6.0	751	13.0	97
10...	1424	7.50	65	7.4	2.5	6.0	751	13.0	97
10...	1425	12.5	65	7.4	2.5	6.0	751	13.1	97
10...	1426	17.5	64	7.4	2.5	6.0	751	13.0	97
MAR									
02...	1353	3.00	48	7.7	4.1	12.5	746	12.5	98
02...	1354	10.0	48	7.7	4.1	12.5	746	12.5	98
02...	1355	17.0	48	7.7	4.1	12.5	746	12.5	98
02...	1356	24.0	48	7.7	4.1	12.5	746	12.5	98
02...	1357	31.0	48	7.7	4.2	12.5	746	12.5	98
MAY									
19...	1834	5.00	60	7.3	7.6	15.0	747	11.1	95
19...	1835	7.00	60	7.3	7.6	15.0	747	11.1	95
19...	1836	9.00	60	7.3	7.7	15.0	747	11.1	95
19...	1837	11.0	60	7.3	7.7	15.0	747	11.1	95
JUL									
19...	1505	10.0	53	7.4	9.9	14.3	758	11.0	98
19...	1506	15.0	53	7.4	9.9	14.3	758	11.0	98
19...	1507	20.0	53	7.4	9.9	14.3	758	11.0	98
19...	1508	25.0	54	7.4	9.9	14.3	758	11.0	98
19...	1509	30.0	54	7.4	9.9	14.3	758	11.0	98

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)
NOV													
16...	1420	9	9	35.0	11.41	99	10	3044	46	7.3	20.0	4.3	747
JAN													
10...	1445	9	9	20.0	10.14	7.2	10	3044	65	7.4	6.0	2.5	751
MAR													
02...	1415	9	9	34.0	10.78	33	10	3044	48	7.7	12.5	4.0	746
MAY													
19...	1805	9	9	18.0	10.15	6.1	10	3044	60	7.3	15.0	7.6	747
JUL													
19...	1450	9	9	30.0	10.80	36	10	3044	53	7.4	14.3	9.9	760

15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water unfltrd recover-able, mg/L (00916)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, unfltrd recover-able, mg/L (00927)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chlor-ide, water, fltrd, mg/L (00940)
NOV													
16...	11.1	87	17	5.19	5.75	.69	.651	2.19	.22	15	12	1.2	4.82
JAN													
10...	13.0	97	28	--	9.38	--	.995	2.65	.18	28	23	2.5	4.36
MAR													
02...	12.5	97	20	--	6.71	--	.673	2.06	E.12	18	14	1.8	3.27
MAY													
19...	11.1	95	26	8.82	8.80	.90	.90	2.33	.19	30	25	2.3	2.72
JUL													
19...	11.0	97	21	--	7.35	--	.713	1.98	E.14	22	18	2.0	2.36

Date	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Alum-inum, water, unfltrd recover-able, ug/L (01105)
NOV													
16...	<.1	3.04	32	26	E.001	.126	<.010	E.09	E.08	<.004	<.004	<.006	37
JAN													
10...	<.1	4.09	36	39	<.002	.153	<.010	<.10	<.10	E.002	E.002	E.003	--
MAR													
02...	<.1	3.18	25	--	<.002	.104	<.010	<.10	<.10	E.002	<.004	<.006	--
MAY													
19...	<.1	3.81	43	37	<.002	.093	<.010	<.10	<.10	.005	E.004	<.006	34
JUL													
19...	<.1	3.29	31	--	E.001	.133	.010	E.07	<.10	<.004	<.004	E.003	--

Date	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, unfltrd ug/L (01097)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, unfltrd recover-able, ug/L (01007)	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, unfltrd recover-able, ug/L (01012)	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, unfltrd recover-able, ug/L (01022)	Boron, water, fltrd, ug/L (01020)	Cadmium water, unfltrd ug/L (01027)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, unfltrd recover-able, ug/L (01034)
NOV													
16...	28	<.2	<.20	E.2	3	3	<.06	<.06	E4	E5	<.04	<.04	<.8
JAN													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
19...	8	<.2	<.20	.3	4	4	<.06	<.06	N	13	<.04	<.04	<.8
JUL													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, unfltrd recover-able, ug/L (01037)	Cobalt water, fltrd, ug/L (01035)	Copper, water, unfltrd recover-able, ug/L (01042)	Copper, water, fltrd, ug/L (01040)	Iron, water, unfltrd recover-able, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Lead, water, unfltrd recover-able, ug/L (01051)	Lead, water, fltrd, ug/L (01049)	Lithium water unfltrd recover-able, ug/L (01132)	Lithium water, fltrd, ug/L (01130)	Mangan-ese, water, unfltrd recover-able, ug/L (01055)	Mangan-ese, water, fltrd, ug/L (01056)
NOV													
16...	<.8	.043	.028	.8	.4	30	17	<.06	<.08	<.6	<.6	1	.9
JAN													
10...	--	--	--	--	--	--	E4	--	--	--	--	--	<.6
MAR													
02...	--	--	--	--	--	--	9	--	--	--	--	--	E.5
MAY													
19...	<.8	.071	.040	E.4	.7	50	<6	.19	.11	<.6	<.6	3	.3
JUL													
19...	--	--	--	--	--	--	14	--	--	--	--	--	.6

15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Mercury water, unfltrd recover -able, ug/L (71900)	Mercury water, fltrd, ug/L (71890)	Molyb- denum, water, unfltrd recover -able, ug/L (01062)	Molyb- denum, water, fltrd, ug/L (01060)	Nickel, water, unfltrd recover -able, ug/L (01067)	Nickel, water, fltrd, ug/L (01065)	Selen- ium, water, unfltrd ug/L (01147)	Selen- ium, water, fltrd, ug/L (01145)	Silver, water, unfltrd recover -able, ug/L (01077)	Silver, water, fltrd, ug/L (01075)	Stront- ium, water, unfltrd recover -able, ug/L (01082)	Stront- ium, water, fltrd, ug/L (01080)	Thall- ium, water, unfltrd ug/L (01059)
NOV													
16...	E.01	E.01	<.2	<.4	.34	.23	<.4	E.2	<.16	<.2	N	25	<.2
JAN													
10...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAR													
02...	--	--	--	--	--	--	--	--	--	--	--	--	--
MAY													
19...	<.01	<.01	.2	E.2	.24	.21	<.4	<.4	<.16	<.2	34.1	28.6	<.2
JUL													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Thall- ium, water, fltrd, ug/L (01057)	Vanad- ium, water, fltrd, ug/L (01085)	Zinc, water, unfltrd recover -able, ug/L (01092)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water unfltrd ug/L (28011)	Uranium natural water, fltrd, ug/L (22703)	Organic carbon, water, fltrd, mg/L (00681)	Total carbon, suspnd sedimnt total, mg/L (00694)	Partic- ulate nitro- gen, susp, water, mg/L (49570)	Sus- pended sedi- ment concen- tration mg/L (80154)	Sus- pended sedi- ment dis- charge, tons/d (80155)
NOV											
16...	<.04	.1	<2	1.1	<.012	<.04	1.8	<.1	<.02	1	.27
JAN											
10...	--	--	--	--	--	--	.5	--	--	<1	--
MAR											
02...	--	--	--	--	--	--	1.1	--	--	<1	--
MAY											
19...	<.04	.3	<2	3.6	<.012	<.04	.5	<.1	<.02	1	.02
JUL											
19...	--	--	--	--	--	--	1.7	--	--	1	.10

15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	5.5	5.0	5.5	3.0	2.5	2.5	3.0	3.0	3.0
2	---	---	---	5.5	5.0	5.5	3.0	2.5	3.0	3.5	3.0	3.5
3	---	---	---	5.5	5.5	5.5	3.0	2.5	3.0	3.5	3.5	3.5
4	---	---	---	5.5	5.5	5.5	3.5	3.0	3.0	4.0	3.5	3.5
5	---	---	---	6.0	5.5	6.0	3.5	3.0	3.5	4.0	3.5	4.0
6	---	---	---	6.0	5.5	6.0	3.5	3.0	3.5	4.0	4.0	4.0
7	---	---	---	6.5	6.0	6.5	3.5	3.5	3.5	4.0	4.0	4.0
8	---	---	---	6.5	6.5	6.5	3.5	3.5	3.5	4.0	4.0	4.0
9	---	---	---	6.5	5.0	5.0	3.5	3.0	3.5	4.0	3.0	3.5
10	---	---	---	5.0	4.5	5.0	3.5	3.0	3.5	3.0	2.5	3.0
11	---	---	---	5.5	4.5	5.0	4.0	3.5	3.5	2.5	2.0	2.0
12	---	---	---	6.5	5.5	6.0	4.0	3.0	3.5	2.5	2.0	2.5
13	---	---	---	5.5	4.5	5.0	3.5	3.0	3.5	2.0	1.5	2.0
14	---	---	---	4.5	4.5	4.5	3.5	3.0	3.5	2.5	2.0	2.5
15	---	---	---	5.0	4.5	4.5	4.0	2.5	3.5	2.5	2.0	2.0
16	---	---	---	5.0	4.5	4.5	3.0	2.5	3.0	2.5	2.0	2.5
17	---	---	---	4.5	4.0	4.5	3.0	2.0	2.5	2.5	2.0	2.5
18	---	---	---	4.0	3.5	4.0	3.5	3.0	3.0	3.0	2.5	3.0
19	---	---	---	3.5	3.5	3.5	3.5	3.0	3.5	3.0	2.5	2.5
20	---	---	---	3.5	3.5	3.5	3.5	3.0	3.5	3.5	3.0	3.0
21	---	---	---	4.0	3.5	4.0	4.0	3.0	3.5	3.5	3.5	3.5
22	---	---	---	4.0	2.0	3.0	4.0	3.0	3.5	3.5	3.0	3.5
23	5.5	5.5	5.5	3.0	2.5	2.5	4.0	3.5	3.5	3.0	2.5	2.5
24	7.5	5.5	6.5	3.0	2.5	2.5	4.0	3.5	3.5	2.5	1.5	2.0
25	9.0	7.5	8.0	3.0	3.0	3.0	4.0	2.5	3.0	1.5	1.0	1.0
26	9.0	7.0	8.0	3.0	2.5	3.0	2.5	2.5	2.5	1.0	1.0	1.0
27	7.0	6.5	7.0	3.0	3.0	3.0	2.5	2.5	2.5	1.5	1.0	1.0
28	6.5	5.5	6.0	3.5	2.5	3.0	3.0	2.5	2.5	1.5	1.0	1.5
29	5.5	4.5	5.0	3.0	2.5	3.0	3.0	3.0	3.0	2.0	1.5	1.5
30	5.0	4.5	4.5	3.5	1.0	2.5	3.5	2.5	3.0	2.0	1.5	2.0
31	5.5	5.0	5.5	---	---	---	3.0	2.5	2.5	2.5	2.0	2.0
MONTH	---	---	---	6.5	1.0	4.4	4.0	2.0	3.2	4.0	1.0	2.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	2.0	2.5	3.0	3.0	3.0	3.0	2.0	2.5	5.0	4.5	5.0
2	2.5	2.0	2.5	3.0	3.0	3.0	2.5	2.0	2.0	5.5	4.5	5.0
3	2.5	2.0	2.5	3.0	3.0	3.0	3.0	2.0	2.5	5.5	4.5	5.0
4	2.5	2.0	2.5	3.0	2.5	3.0	3.0	2.0	2.5	6.5	4.5	5.0
5	2.5	2.0	2.0	2.5	2.5	2.5	3.5	2.5	3.0	6.0	4.0	5.0
6	2.0	1.0	1.5	3.0	2.5	2.5	4.0	3.0	3.5	6.0	4.5	5.0
7	2.0	0.5	1.5	2.5	2.0	2.5	4.0	3.0	3.5	6.0	4.5	5.0
8	2.0	0.5	1.0	3.0	2.0	2.5	4.0	2.5	3.0	5.5	5.0	5.0
9	3.0	2.0	2.5	2.5	2.0	2.5	4.0	3.5	3.5	5.5	5.0	5.0
10	3.0	2.5	3.0	2.5	2.0	2.5	4.5	3.0	4.0	6.0	5.0	5.5
11	3.0	2.5	3.0	3.0	2.5	3.0	5.0	3.5	4.0	6.5	5.0	6.0
12	3.0	2.5	3.0	3.5	3.0	3.0	4.0	4.0	4.0	7.0	5.0	6.0
13	3.5	3.0	3.5	3.0	2.5	3.0	4.5	3.5	4.0	7.0	5.0	6.0
14	3.5	2.5	3.0	3.0	2.0	3.0	5.0	3.5	4.0	6.5	5.5	5.5
15	2.5	2.5	2.5	2.5	2.0	2.5	4.0	3.0	3.5	5.5	5.5	5.5
16	3.0	2.5	2.5	2.5	1.5	2.0	4.0	3.0	3.5	6.0	5.5	5.5
17	3.0	3.0	3.0	3.0	2.0	2.5	4.0	3.5	3.5	6.0	5.5	6.0
18	3.5	3.0	3.0	3.0	2.0	2.5	4.0	3.5	3.5	7.0	5.5	6.0
19	3.5	3.0	3.0	2.5	2.0	2.5	4.5	3.0	4.0	7.0	6.0	6.0
20	3.5	3.0	3.0	3.0	2.5	3.0	5.0	3.5	4.0	7.5	6.0	6.5
21	3.5	3.0	3.5	3.5	2.5	3.0	5.0	3.5	4.0	7.5	6.0	7.0
22	4.0	3.0	3.5	3.5	2.5	3.0	4.5	3.5	4.0	7.5	6.0	6.5
23	4.0	3.5	4.0	3.5	2.5	3.0	4.0	3.5	3.5	7.5	6.0	6.5
24	3.5	3.0	3.5	3.5	2.5	3.0	4.0	3.5	4.0	7.0	6.5	6.5
25	3.0	3.0	3.0	3.5	3.0	3.0	4.5	4.0	4.0	7.0	6.0	6.5
26	3.0	3.0	3.0	3.5	3.0	3.0	4.5	3.5	4.0	6.0	6.0	6.0
27	3.0	2.5	3.0	3.0	2.5	3.0	4.5	3.5	4.0	6.5	5.5	6.0
28	3.0	3.0	3.0	3.0	2.5	3.0	5.0	4.0	4.5	6.5	5.5	6.0
29	3.0	3.0	3.0	3.0	1.5	2.5	5.5	4.0	4.5	6.5	5.5	6.0
30	---	---	---	2.0	1.5	2.0	6.5	4.5	5.5	7.0	6.0	6.5
31	---	---	---	2.5	2.0	2.0	---	---	---	7.0	6.0	6.5
MONTH	4.0	0.5	2.8	3.5	1.5	2.7	6.5	2.0	3.7	7.5	4.0	5.8

15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

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

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

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	8.0	8.0	4.5	4.5	4.5	4.5	4.0	4.5	1.5	1.5	1.5
2	8.0	8.0	8.0	4.5	4.0	4.0	5.0	4.5	4.5	2.5	1.5	2.0
3	8.0	8.0	8.0	5.5	4.5	4.5	4.5	3.5	4.0	2.5	2.5	2.5
4	8.5	8.0	8.0	5.0	4.0	4.5	4.0	3.0	3.5	3.0	2.5	2.5
5	8.5	8.0	8.5	4.0	3.5	4.0	3.5	3.0	3.5	2.5	2.0	2.5
6	8.0	7.5	7.5	4.0	3.5	4.0	3.0	3.0	3.0	2.0	2.0	2.0
7	8.0	7.5	7.5	4.0	3.5	3.5	3.0	2.5	3.0	2.0	1.5	2.0
8	7.5	7.5	7.5	4.0	3.5	4.0	3.0	2.5	3.0	2.0	2.0	2.0
9	8.0	7.5	7.5	4.0	3.5	3.5	3.0	2.0	2.5	2.0	1.5	2.0
10	8.0	7.0	7.5	3.5	3.5	3.5	3.0	2.5	3.0	2.5	2.0	2.5
11	7.0	6.5	7.0	4.0	3.5	3.5	3.0	2.5	3.0	2.5	1.5	2.0
12	9.5	6.5	7.5	4.0	3.5	4.0	3.5	3.0	3.5	2.0	1.5	2.0
13	9.0	8.0	8.5	4.5	4.0	4.0	4.0	3.5	3.5	1.5	1.5	1.5
14	8.0	7.5	7.5	4.5	4.0	4.5	4.0	3.5	3.5	2.0	1.5	2.0
15	7.5	7.0	7.5	4.5	4.0	4.5	4.0	3.5	3.5	2.0	2.0	2.0
16	7.0	6.5	6.5	4.5	4.0	4.0	4.5	4.0	4.0	2.5	1.0	1.5
17	6.5	6.0	6.0	4.0	4.0	4.0	5.0	4.5	4.5	1.5	0.5	1.0
18	6.0	5.0	5.5	4.0	4.0	4.0	5.0	3.0	4.5	1.5	0.5	1.0
19	5.5	4.5	5.0	4.5	4.0	4.5	4.0	3.0	3.5	2.0	1.0	1.5
20	5.5	5.0	5.0	5.0	4.5	5.0	4.0	3.5	3.5	2.5	2.0	2.5
21	5.5	5.0	5.0	5.0	4.5	5.0	3.5	3.5	3.5	3.5	2.5	3.0
22	5.5	4.5	5.0	4.5	4.5	4.5	5.0	3.5	4.0	3.5	3.0	3.0
23	5.0	4.5	4.5	4.5	4.5	4.5	5.0	4.5	5.0	3.0	2.5	2.5
24	5.0	4.5	5.0	4.5	3.0	4.0	5.0	3.5	4.0	3.0	2.5	3.0
25	5.0	4.5	4.5	3.5	3.0	3.5	3.5	2.5	3.0	3.0	2.5	3.0
26	5.5	4.5	5.0	4.0	3.0	4.0	2.5	2.5	2.5	3.5	3.0	3.0
27	6.0	5.5	5.5	4.0	4.0	4.0	3.0	2.5	2.5	3.5	3.0	3.5
28	5.5	5.0	5.5	4.0	4.0	4.0	3.0	2.5	3.0	3.5	3.0	3.5
29	5.5	4.5	5.5	4.5	4.0	4.5	3.0	1.5	2.0	3.5	3.0	3.0
30	5.0	4.0	4.5	4.5	4.0	4.5	1.5	1.0	1.5	3.5	3.0	3.5
31	5.0	4.0	4.5	---	---	---	1.5	1.0	1.5	3.0	3.0	3.0
MONTH	9.5	4.0	6.4	5.5	3.0	4.2	5.0	1.0	3.4	3.5	0.5	2.3

15087618 STARRIGAVIN CREEK AT UPPER BRIDGE NEAR SITKA—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

	FEBRUARY			MARCH			APRIL			MAY		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	3.0	2.5	3.0	4.0	3.5	4.0	3.0	2.5	3.0	---	---	---
2	3.0	2.5	3.0	4.0	3.5	4.0	3.0	2.5	3.0	---	---	---
3	2.5	2.5	2.5	3.5	3.0	3.5	3.5	3.0	3.0	---	---	---
4	2.5	2.0	2.5	4.0	3.5	3.5	3.5	2.5	3.0	---	---	---
5	2.0	1.5	1.5	4.0	3.5	3.5	4.0	3.0	3.5	---	---	---
6	2.0	1.5	1.5	3.5	3.0	3.5	3.5	3.0	3.0	---	---	---
7	2.0	1.0	2.0	4.0	3.5	3.5	3.5	3.0	3.0	---	---	---
8	2.0	1.0	1.5	4.5	4.0	4.0	3.5	3.0	3.5	---	---	---
9	3.0	2.0	2.5	4.0	3.5	4.0	4.0	3.5	3.5	---	---	---
10	3.0	2.5	2.5	4.5	3.5	4.0	4.0	3.0	3.5	---	---	---
11	2.5	2.0	2.5	4.0	3.5	4.0	4.0	3.5	3.5	---	---	---
12	2.5	2.0	2.0	4.5	4.0	4.0	4.0	3.0	3.5	---	---	---
13	2.0	2.0	2.0	4.5	3.5	4.0	4.0	3.0	3.5	---	---	---
14	2.5	2.0	2.0	4.5	4.0	4.0	4.0	3.0	3.5	---	---	---
15	2.5	2.0	2.5	4.0	3.0	3.5	4.0	3.0	3.5	---	---	---
16	2.5	2.0	2.0	3.5	3.0	3.0	4.0	3.5	4.0	---	---	---
17	2.5	2.0	2.5	3.5	3.0	3.0	4.5	3.5	4.0	---	---	---
18	2.5	2.0	2.0	3.0	2.5	3.0	4.5	4.0	4.0	---	---	---
19	2.5	2.0	2.0	3.0	2.5	2.5	---	---	---	7.5	---	---
20	2.5	2.0	2.5	3.0	2.5	2.5	---	---	---	7.5	7.0	7.0
21	3.0	2.5	2.5	3.0	2.5	3.0	---	---	---	7.5	7.0	7.0
22	3.0	2.5	2.5	3.5	3.0	3.0	---	---	---	8.0	6.5	7.5
23	3.0	2.5	2.5	3.5	3.0	3.0	---	---	---	7.5	7.0	7.0
24	3.0	2.5	3.0	3.5	3.0	3.0	---	---	---	7.5	7.0	7.0
25	3.0	2.5	3.0	3.5	3.0	3.5	---	---	---	7.5	6.5	7.0
26	3.5	3.0	3.0	3.5	3.5	3.5	---	---	---	8.0	7.0	7.5
27	4.0	3.0	3.5	3.5	3.0	3.5	---	---	---	7.5	7.0	7.5
28	3.5	3.5	3.5	3.5	3.0	3.5	---	---	---	8.0	7.0	7.5
29	---	---	---	3.5	3.0	3.0	---	---	---	8.0	7.0	7.5
30	---	---	---	3.5	3.0	3.0	---	---	---	8.0	7.0	7.5
31	---	---	---	3.5	2.5	3.0	---	---	---	8.5	7.0	7.5
MONTH	4.0	1.0	2.4	4.5	2.5	3.4	---	---	---	---	---	---

	JUNE			JULY			AUGUST			SEPTEMBER		
DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
1	8.5	7.5	8.0	---	---	---	10.0	9.0	9.5	9.5	9.0	9.0
2	8.5	7.5	8.0	---	---	---	9.5	9.0	9.5	9.5	9.0	9.0
3	---	---	---	---	---	---	10.0	9.0	9.5	9.5	9.0	9.0
4	---	---	---	---	---	---	10.0	9.0	9.5	9.0	8.5	9.0
5	---	---	---	---	---	---	10.5	10.0	10.0	9.5	9.0	9.0
6	---	---	---	---	---	---	10.5	9.5	10.0	10.5	9.5	10.0
7	---	---	---	---	---	---	10.5	9.5	10.0	11.0	9.5	10.0
8	---	---	---	---	---	---	10.5	9.5	10.0	9.5	9.5	9.5
9	---	---	---	---	---	---	11.0	9.5	10.5	9.5	8.5	9.0
10	---	---	---	---	---	---	11.0	10.0	10.5	9.5	9.0	9.0
11	---	---	---	---	---	---	11.0	10.0	10.5	9.5	9.5	9.5
12	---	---	---	---	---	---	11.0	10.0	10.5	10.0	9.0	9.5
13	---	---	---	---	---	---	11.0	10.0	10.5	10.5	9.5	10.0
14	8.5	7.0	8.0	---	---	---	10.5	10.0	10.5	9.5	9.5	9.5
15	8.5	7.5	8.0	---	---	---	10.5	10.0	10.0	9.5	9.0	9.0
16	8.5	7.5	8.0	---	---	---	10.5	10.0	10.0	9.0	8.5	9.0
17	8.5	7.5	8.0	---	---	---	10.5	10.0	10.0	9.5	9.0	9.5
18	8.5	8.0	8.0	---	---	---	12.0	10.0	11.5	9.5	9.0	9.5
19	---	---	---	---	---	---	11.5	11.0	11.0	9.0	8.5	9.0
20	---	---	---	9.5	9.0	9.5	11.0	10.5	10.5	9.0	8.5	8.5
21	---	---	---	10.0	9.0	9.5	11.0	10.5	10.5	8.5	8.0	8.5
22	---	---	---	10.0	9.5	9.5	11.0	10.5	11.0	8.5	8.0	8.5
23	---	---	---	10.5	9.5	10.0	10.5	10.0	10.0	9.5	8.5	9.0
24	---	---	---	10.0	9.5	10.0	10.5	10.0	10.0	10.0	9.0	9.5
25	---	---	---	10.0	9.5	9.5	12.0	10.5	11.0	9.0	8.0	8.5
26	---	---	---	11.0	9.5	10.0	10.5	9.5	10.0	8.5	7.5	8.0
27	---	---	---	11.0	10.5	10.5	10.0	9.5	9.5	8.5	7.5	7.5
28	---	---	---	10.5	10.0	10.0	10.0	9.0	9.5	8.5	8.5	8.5
29	---	---	---	10.0	9.5	10.0	10.0	9.5	9.5	8.5	8.0	8.5
30	---	---	---	10.0	9.5	9.5	10.5	10.0	10.0	8.0	7.5	8.0
31	---	---	---	10.0	9.5	9.5	10.0	9.5	9.5	---	---	---
MONTH	---	---	---	---	---	---	12.0	9.0	10.1	11.0	7.5	9.0

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 19010203, 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 mi2

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.--No estimated daily discharge. Records fair.

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)
Nov. 03	1230	1430	11.39	Dec. 02	1145	3740	13.52
Nov. 20	1700	4560	14.06	Dec. 24	0530	1780	11.81
Dec. 01	1800	1510	11.50	Sept. 24	1445	3590	13.41

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	134	183	493	62	233	89	22	64	22	22	63	171
2	120	156	1010	57	170	80	25	62	22	60	57	115
3	99	642	254	52	123	66	23	60	19	66	52	97
4	98	182	126	49	100	75	23	55	21	62	53	82
5	133	108	100	56	82	63	30	52	20	40	146	80
6	111	85	87	49	72	54	28	48	18	31	123	200
7	123	74	78	41	76	61	23	51	17	30	88	555
8	98	64	70	36	227	74	24	52	16	26	71	222
9	84	58	76	33	152	81	29	53	15	24	63	128
10	92	50	70	31	160	181	41	54	16	26	57	97
11	80	44	141	26	113	133	33	54	17	25	52	90
12	198	42	120	22	88	118	32	58	15	24	49	102
13	184	52	95	25	75	96	25	60	14	27	44	188
14	100	156	116	24	69	84	23	62	23	27	38	125
15	87	205	91	22	67	71	22	49	22	33	35	95
16	76	157	235	25	161	60	22	38	17	29	33	80
17	65	119	306	64	107	54	23	34	16	160	30	114
18	59	92	357	126	75	45	26	32	16	256	112	247
19	54	286	280	194	65	37	187	29	17	137	83	487
20	49	1680	155	132	58	32	132	28	16	81	61	231
21	64	368	118	112	54	29	147	29	19	90	42	132
22	78	158	186	131	53	28	109	27	20	138	236	109
23	52	130	913	116	56	25	104	25	21	98	112	384
24	97	261	720	101	57	23	119	24	23	72	79	1210
25	65	228	168	90	50	21	122	24	19	60	259	290
26	50	203	121	113	45	21	109	27	17	105	156	176
27	126	184	125	130	47	22	105	28	16	176	118	137
28	213	217	161	125	81	20	108	25	15	130	89	278
29	341	153	98	118	---	22	89	23	15	89	89	366
30	157	270	79	154	---	24	71	24	14	75	290	296
31	125	---	69	155	---	37	---	22	---	69	309	---
TOTAL	3412	6607	7018	2471	2716	1826	1876	1273	538	2288	3089	6884
MEAN	110	220	226	79.7	97.0	58.9	62.5	41.1	17.9	73.8	99.6	229
MAX	341	1680	1010	194	233	181	187	64	23	256	309	1210
MIN	49	42	69	22	45	20	22	22	14	22	30	80
AC-FT	6770	13100	13920	4900	5390	3620	3720	2520	1070	4540	6130	13650
CFSM	10.9	21.8	22.4	7.89	9.60	5.83	6.19	4.07	1.78	7.31	9.87	22.7
IN.	12.57	24.33	25.85	9.10	10.00	6.73	6.91	4.69	1.98	8.43	11.38	25.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)#

MEAN	181	108	105	96.7	81.2	61.6	66.1	99.6	82.4	62.1	86.3	171
MAX	293	220	226	184	154	122	111	167	166	111	238	295
(WY)	1988	2005	2005	1984	1993	1986	1983	1983	1985	1985	1983	1991
MIN	97.1	37.0	21.7	46.3	24.8	19.9	29.0	37.1	17.9	20.6	18.3	52.8
(WY)	2004	1999	1984	1988	1999	1989	2002	2003	2005	1993	2004	1986

See Period of Record; partial years used in monthly statistics and break in record

15087690 INDIAN RIVER NEAR SITKA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005#	
ANNUAL TOTAL	35384		39998			
ANNUAL MEAN	96.7		110		100	
HIGHEST ANNUAL MEAN					123	1987
LOWEST ANNUAL MEAN					76.3	2003
HIGHEST DAILY MEAN	1680	Nov 20	1680	Nov 20	2000	Oct 12 1982
LOWEST DAILY MEAN	a11	Aug 22	b14	Jun 13	8.6	Jan 18 1989
ANNUAL SEVEN-DAY MINIMUM	11	Aug 19	16	Jun 7	10	Jan 13 1989
MAXIMUM PEAK FLOW			c4560	Nov 20	d5710	Sep 4 1990
MAXIMUM PEAK STAGE			14.06	Nov 20	f13.51	Sep 4 1990
INSTANTANEOUS LOW FLOW			12	Jun 13	8.2	Jan 19 1989
ANNUAL RUNOFF (AC-FT)	70180		79340		72730	
ANNUAL RUNOFF (CFSM)	9.57		10.8		9.94	
ANNUAL RUNOFF (INCHES)	130.33		147.32		135.05	
10 PERCENT EXCEEDS	184		215		184	
50 PERCENT EXCEEDS	65		74		67	
90 PERCENT EXCEEDS	15		22		28	

\# See Period of Record; partial years used in monthly statistics and break in record
a Aug. 22-25
b June 13 and 30
c From rating curve extended above 500 ft^3/s
d From rating curve extended above 3,100 ft^3/s, at site and datum then in use
f At site and datum then in use

15088000 SAWMILL CREEK NEAR SITKA

LOCATION.--Lat 57°03'05", long 135°13'40", in NE¼ SW¼ sec. 34, T. 55 S., R. 64 E. (Sitka A-4 quad.), Hydrologic Unit 19010401, on Baranof Island, in Tongass National Forest, on left bank 500 ft upstream from mouth, 1.6 mi downstream from Blue Lake, and 4.0 mi east of Sitka.

DRAINAGE AREA.--39.0 mi^2.

PERIOD OF RECORD.-- September 1920 to December 1923, February 1928 to September 1942, October 1945 to September 1957, 1994 (peak discharge only, published in WRD AK 95-1), and May 2001 to current year. Records prior to 1945 furnished by U.S. Forest Service.

REVISED RECORDS.-- WSP 1372: 1921-22 and 1928-36.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is sea level, from topographic map. Prior to April 1947, staff gages or water-stage recorders at several sites within 1,700 ft of present site at various datums. April 1947 to September 1957 at site about 200 ft upstream at different datum.

REMARKS.--Records good. Minor regulation above station by Sitka Public Utilities hydroelectric plant during periods 1920-23 and 1937-42. In 1959, Blue Lake Dam, 1.6 mi upstream, was completed. The area of the lake is 1225 acres. The dam is concrete with a spillway elevation of 342.0 ft above sea level. In 1960, the Blue Lake Hydro plant, located 400 ft downstream from gage, was put into operation. Water is taken from Blue Lake and piped via a penstock to Blue Lake hydro, through 2-3,000 kw turbines and discharged back into Sawmill Creek just below high tide level. This penstock also provides water for the City of Sitka and for the filter plant for the Sitka Sawmill. In the years following, Campground Hydro, a smaller generation plant was constructed about 1,000 ft below Blue Lake Dam. It also has a penstock from Blue Lake and discharges directly into Sawmill Creek. A fish bypass valve has been installed at Campground Hydro that automatically releases 50 ft^3/s to the tailrace anytime the hydro plant is shut down. Another small generator was installed just above the Sawmill Filter Plant diversion from Blue Lake Hydro penstock with the capability of bypassing the filter plant and discharging back into Sawmill Creek above the gage site. Water that went to the filter plant was piped to the sawmill and eventually discharged directly into Silver Bay. The sawmill has since closed and water is now supplied to Sawmill Cove Industrial Park. Flow is constantly regulated except when Blue Lake is spilling.

EXTREMES OUTSIDE PERIOD OF RECORD.-- It was reported that in October 1972, a storm produced a peak elevation at Blue Lake of 353.0 ft or 11.0 ft of spill at the spillway. Extending the spillway rating, this flood was estimated to be 17,000 ft^3/s. It was reported to have been the largest since 1921.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	760	263	573	222	87	66	63	60	59	81	208	797
2	473	252	4110	222	79	65	63	60	60	86	168	417
3	240	348	3600	220	71	84	63	60	60	87	163	243
4	154	679	1240	220	64	76	64	60	60	102	189	150
5	512	468	483	224	61	61	67	60	60	279	395	120
6	738	269	248	220	60	60	65	59	60	502	644	227
7	884	230	232	218	60	61	63	59	60	652	511	1800
8	1310	226	228	218	80	64	63	59	60	533	408	1790
9	762	226	228	216	78	65	63	59	60	391	316	1010
10	430	223	228	217	77	92	66	59	61	353	199	471
11	253	222	250	217	70	79	64	59	61	322	184	285
12	461	222	248	216	64	75	63	59	61	283	172	215
13	1620	225	238	215	61	68	62	59	61	313	160	478
14	856	260	242	214	60	65	62	60	63	405	151	473
15	405	258	235	214	59	63	61	59	62	565	140	274
16	254	258	204	215	100	61	60	59	61	481	141	160
17	224	247	207	214	76	60	60	59	61	700	136	161
18	222	239	260	183	66	59	103	58	61	1710	286	1340
19	181	259	588	102	63	58	159	58	61	1240	389	3360
20	219	1080	524	69	60	57	123	59	62	664	300	1990
21	222	2860	314	70	59	57	71	59	64	422	229	930
22	227	1120	277	72	59	57	67	59	63	359	884	495
23	221	507	1800	67	59	58	66	59	85	291	880	931
24	232	463	3900	67	59	55	66	59	124	248	421	3520
25	225	394	1360	64	59	55	65	59	124	211	421	2870
26	221	314	503	66	58	57	64	59	124	274	511	1250
27	229	275	264	66	59	58	63	59	124	538	358	627
28	262	293	248	66	65	58	63	59	87	579	228	1200
29	297	271	241	66	---	59	62	59	78	416	159	1880
30	264	313	228	72	---	60	61	59	79	311	566	1380
31	246	---	224	76	---	65	---	59	---	245	1100	---
TOTAL	13604	13264	23525	4808	1873	1978	2105	1833	2166	13643	11017	30844
MEAN	439	442	759	155	66.9	63.8	70.2	59.1	72.2	440	355	1028
MAX	1620	2860	4110	224	100	92	159	60	124	1710	1100	3520
MIN	154	222	204	64	58	55	60	58	59	81	136	120
AC-FT	26980	26310	46660	9540	3720	3920	4180	3640	4300	27060	21850	61180
CFSM	11.3	11.3	19.5	3.98	1.72	1.64	1.80	1.52	1.85	11.3	9.11	26.4
IN.	12.98	12.65	22.44	4.59	1.79	1.89	2.01	1.75	2.07	13.01	10.51	29.42

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1920 - 2005, BY WATER YEAR (WY)#

MEAN	723	465	270	171	161	125	195	506	667	634	637	747
MAX	1204	998	818	500	644	365	663	861	1179	976	1235	1287
(WY)	1938	1936	1931	1942	1935	1947	1936	1936	1936	1935	1939	1947
MIN	354	78.5	50.1	29.9	33.1	24.8	61.5	59.1	53.9	87.0	114	359
(WY)	1923	2002	1951	1956	1951	1922	1948	2005	2002	2003	2004	1941

See Period of Record; partial years were used in monthly statistics and breaks in record.

15088000 SAWMILL CREEK NEAR SITKA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1920 - 2005#	
ANNUAL TOTAL	94712		120660			
ANNUAL MEAN	259		331		447	
HIGHEST ANNUAL MEAN					715	1936
LOWEST ANNUAL MEAN					182	2004
HIGHEST DAILY MEAN	4110	Dec 2	4110	Dec 2	5500	Oct 22 1937
LOWEST DAILY MEAN	53	Mar 3	a55	Mar 24	11	Mar 30 1922
ANNUAL SEVEN-DAY MINIMUM	68	Feb 11	57	Mar 20	12	Mar 25 1922
MAXIMUM PEAK FLOW			7210	Dec 2	b10700	Nov 19 1993
MAXIMUM PEAK STAGE			18.22	Dec 2	18.26	Aug 12 2002
INSTANTANEOUS LOW FLOW			a53	Mar 24	c	
ANNUAL RUNOFF (AC-FT)	187900		239300		324000	
ANNUAL RUNOFF (CFSM)	6.64		8.48		11.5	
ANNUAL RUNOFF (INCHES)	90.34		115.09		155.82	
10 PERCENT EXCEEDS	464		715		930	
50 PERCENT EXCEEDS	121		183		310	
90 PERCENT EXCEEDS	96		59		64	

\# See Period of Record; partial years were used in monthly statistics and breaks in record.
a Mar. 24 and 25
b On the basis of a slope-area computation of peak flow below Campground Hydro and adding diversion values at the time of peak between Campground Hydro and gage; peak flow below Blue Lake Tailrace was computed to be 11,100 ft^3/s.
c Undetermined

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 19010203, 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 current year.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.4	15	20	0.11	8.1	5.9	1.1	1.5	0.34	6.8	0.29	1.4
2	1.0	3.0	49	0.10	3.3	3.8	0.94	1.8	0.27	4.1	0.15	0.69
3	0.43	40	6.3	0.15	1.8	2.3	1.1	1.5	0.22	2.3	0.10	0.49
4	2.8	4.0	0.92	0.50	1.00	4.8	1.4	1.3	0.38	0.96	0.13	0.23
5	6.4	1.5	0.47	3.1	0.57	2.0	3.3	1.3	0.31	0.65	18	0.29
6	3.1	1.1	0.31	0.64	0.45	1.4	2.9	1.8	0.24	0.42	2.3	8.3
7	7.0	0.79	0.19	0.30	0.54	1.8	2.4	2.4	0.20	0.91	0.53	24
8	7.1	0.70	e0.00	0.20	14	5.9	2.3	1.9	0.16	0.32	0.24	4.4
9	0.71	0.84	0.57	0.14	5.3	4.8	2.1	2.2	0.10	0.36	0.12	0.76
10	1.2	0.64	0.39	e0.12	5.2	23	2.2	1.9	0.14	1.7	0.08	0.43
11	0.49	0.56	8.1	e0.08	1.9	4.7	2.1	1.5	0.17	0.67	0.06	1.1
12	14	1.8	3.5	e0.06	1.00	4.0	2.1	1.8	0.11	1.4	0.05	9.4
13	3.3	5.9	1.8	e0.00	0.76	2.9	2.0	2.1	0.07	1.8	0.04	15
14	0.83	33	3.7	e0.00	0.65	2.1	2.0	2.4	1.5	1.4	0.01	2.3
15	1.2	9.6	2.8	e0.00	0.76	1.3	1.5	1.2	0.72	1.5	0.04	0.55
16	0.64	6.6	34	e0.00	6.2	1.0	1.0	0.87	0.29	0.55	0.01	0.29
17	0.37	3.4	14	7.4	2.3	1.0	1.7	0.82	0.15	5.6	0.00	7.9
18	0.25	1.7	17	6.7	1.2	0.82	2.0	0.87	0.09	7.7	2.8	38
19	0.18	11	11	6.2	0.95	0.50	9.6	0.74	0.15	1.3	1.1	24
20	0.17	62	2.0	3.4	0.72	0.39	5.5	0.65	0.28	0.53	0.84	6.1
21	1.8	10	0.76	5.8	0.66	0.33	7.4	0.71	3.9	1.1	1.6	1.6
22	2.1	2.2	18	8.2	0.70	0.37	4.1	0.61	1.5	2.2	14	1.5
23	0.61	2.9	37	2.9	1.3	0.51	6.5	0.52	1.2	0.87	2.0	25
24	6.0	19	20	2.0	1.5	0.84	6.6	0.97	1.0	0.33	0.40	37
25	1.2	6.7	1.1	1.3	1.1	0.87	5.7	0.67	0.53	0.19	9.6	4.9
26	0.61	4.7	0.50	6.2	1.5	0.67	4.9	0.79	0.31	3.9	2.7	1.8
27	9.2	14	2.3	5.8	2.8	0.99	4.6	0.68	0.17	4.5	1.1	5.9
28	23	11	3.1	4.5	6.4	0.82	5.6	0.51	0.22	1.2	0.29	16
29	20	4.8	0.47	2.9	---	0.89	2.9	0.39	0.37	0.41	2.2	11
30	3.2	14	0.20	8.7	---	1.1	1.7	0.52	0.27	0.26	9.4	6.7
31	1.8	---	0.13	6.9	---	2.6	---	0.38	---	0.34	8.5	---
TOTAL	123.09	292.43	259.61	84.40	72.66	84.40	99.24	37.30	15.36	56.27	78.68	257.03
MEAN	3.97	9.75	8.37	2.72	2.60	2.72	3.31	1.20	0.51	1.82	2.54	8.57
MAX	23	62	49	8.7	14	23	9.6	2.4	3.9	7.7	18	38
MIN	0.17	0.56	0.00	0.00	0.45	0.33	0.94	0.38	0.07	0.19	0.00	0.23
MED	1.8	4.8	2.3	1.3	1.3	1.3	2.2	0.97	0.27	1.1	0.40	4.6
AC-FT	244	580	515	167	144	167	197	74	30	112	156	510
CFSM	10.4	25.7	22.0	7.16	6.83	7.16	8.71	3.17	1.35	4.78	6.68	22.5
IN.	12.05	28.63	25.41	8.26	7.11	8.26	9.72	3.65	1.50	5.51	7.70	25.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)

MEAN	5.68	4.51	4.99	2.89	2.45	2.00	2.81	3.84	2.85	2.29	2.50	5.77
MAX	7.64	9.75	8.37	3.67	3.42	2.78	4.92	6.85	6.20	4.93	5.96	8.57
(WY)	2002	2005	2005	2004	2004	2001	2004	2002	2000	2000	2002	2005
MIN	3.84	2.85	2.49	1.68	1.12	0.82	1.48	0.94	0.50	0.75	0.21	3.04
(WY)	2004	2001	2003	2000	2000	2002	2003	2003	2004	2003	2004	2002

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005	
ANNUAL TOTAL	1463.61		1506.11			
ANNUAL MEAN	4.00		4.13		3.57	
HIGHEST ANNUAL MEAN					4.54	2000
LOWEST ANNUAL MEAN					2.46	2003
HIGHEST DAILY MEAN	62	Nov 20	62	Nov 20	62	Nov 20 2004
LOWEST DAILY MEAN	a0.00	Aug 13	b0.00	Aug 17	c0.00	Jul 17 2003
ANNUAL SEVEN-DAY MINIMUM	0.00	Aug 13	0.03	Aug 11	0.00	Aug 13 2004
MAXIMUM PEAK FLOW			145	Dec 2	264	Aug 12 2002
MAXIMUM PEAK STAGE			19.50	Dec 2	19.68	Aug 12 2002
INSTANTANEOUS LOW FLOW					d0.00	Dec 2 2001
ANNUAL RUNOFF (AC-FT)	2900		2990		2590	
ANNUAL RUNOFF (CFSM)	10.5		10.9		9.40	
ANNUAL RUNOFF (INCHES)	143.28		147.44		127.69	
10 PERCENT EXCEEDS	12		9.6		8.3	
50 PERCENT EXCEEDS	1.2		1.5		1.8	
90 PERCENT EXCEEDS	0.09		0.24		0.27	

a Aug. 13-19, 21-25
b Dec. 8, Jan 13-16
c Dec. 8, Jan 13-16, Jul. 17-18,and Aug. 10,2003
d No flow during many days
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). WRD AK-00-01: 1998-1999 (M m).

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.--31 years (water years, 1916-25, 1985-2005), 313 ft^3/s, 147.6in/yr, 226,800 acre-ft/yr. Mean discharge for water years 1985-2005 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 , November 27-29, 1988 and June 19, 2004.

EXTREMES FOR CURRENT YEAR.--Maximum contents observed,91,680 acre-ft, September 18, elevation 398.5 ft; minimum contents observed, 65,250 acre-ft, April 9, elevation 370.0 ft. Maximum daily discharge (not adjusted for storage) 347 ft^3/s, April 19; minimum daily discharge, 77.2 ft^3/s, September 8.

MONTH END RESERVOIR ELEVATION, IN FEET ABOVE SEA LEVEL, AND CONTENTS, IN ACRE FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
Sep 30	396.4	89,470	
Oct 31	395.8	88,840	-630
Nov 30	395.6	88,630	-210
Dec 31	394.4	87,430	-1200
Jan 31	389.3	82,590	-4840
Feb 28	382.5	76,250	-6340
Mar 31	376.6	70,940	-5310
Apr 30	376.3	70,670	-270
May 31	390.0	83,250	+12580
Jun 30	394.8	87,810	+4560
Jul 31	395.0	88,000	+190
Aug 31	396.5	89,580	+1580
Sep 30	396.9	90,000	+420
		CAL YR 2004	+12260
		WTR YR 2005	+530

DISCHARGE, IN CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
MEAN VALUES

MONTH	RELEASE	SPILL	TOTAL	ADJUSTED
OCT	116	280	396	386
NOV	158	372	530	526
DEC	157	398	555	536
JAN	194	0	194	115
FEB	226	0	226	112
MAR	233	0	233	147
APR	215	0	215	210
MAY	147	0	147	352
JUN	170	0	170	247
JUL	220	117	337	340
AUG	219	65	284	310
SEP	131	608	739	746
CAL YR 2004	168	152	320	329
WTR YR 2005	182	153	336	336

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	52	45	51	e26	18	53	11	72	70	50	44	54
2	46	47	117	e24	14	41	10	67	70	62	36	48
3	38	95	94	e22	12	29	10	66	61	69	37	40
4	55	64	56	e21	e11	34	11	65	70	74	42	33
5	95	39	39	e19	e10	25	11	66	67	60	54	34
6	91	31	32	18	e9.0	20	15	70	62	51	43	66
7	81	27	e28	18	e8.0	18	14	78	63	46	35	80
8	84	24	e25	16	e10	32	13	85	64	37	31	62
9	71	22	24	15	11	33	13	91	64	33	27	47
10	66	20	22	15	10	76	14	97	64	31	24	44
11	51	19	25	e14	9.7	53	14	101	59	30	22	41
12	55	21	29	e13	8.8	37	14	102	51	31	20	45
13	68	33	24	e12	e7.6	33	14	118	51	32	19	51
14	49	85	28	e12	e7.0	29	14	150	50	40	18	40
15	45	83	25	e11	7.6	25	13	118	50	47	18	35
16	36	55	109	e11	7.7	21	14	95	47	35	17	31
17	31	37	85	e11	8.2	19	16	89	52	52	16	47
18	26	31	117	12	7.9	17	17	85	58	53	24	98
19	24	32	85	11	7.2	e15	45	81	60	41	31	125
20	24	89	58	10	6.8	e13	46	82	52	34	28	98
21	22	89	42	13	6.5	e13	85	86	61	38	25	88
22	22	53	43	25	6.4	e13	67	82	49	33	31	75
23	20	40	107	19	7.8	12	67	79	46	29	26	99
24	20	34	116	15	8.1	12	97	78	44	27	23	110
25	20	31	71	13	8.5	11	108	73	39	28	62	93
26	18	29	52	14	10	12	110	82	37	33	70	78
27	27	28	42	13	16	13	111	86	42	62	44	78
28	35	30	36	12	37	12	110	72	52	63	33	109
29	73	29	e33	12	---	11	100	74	53	46	37	131
30	35	32	e30	22	---	11	84	74	41	41	52	101
31	27	---	e28	23	---	13	---	68	---	51	55	---
TOTAL	1407	1294	1673	492	291.8	756	1268	2632	1649	1359	1044	2081
MEAN	45.4	43.1	54.0	15.9	10.4	24.4	42.3	84.9	55.0	43.8	33.7	69.4
MAX	95	95	117	26	37	76	111	150	70	74	70	131
MIN	18	19	22	10	6.4	11	10	65	37	27	16	31
AC-FT	2790	2570	3320	976	579	1500	2520	5220	3270	2700	2070	4130
CFSM	5.27	5.00	6.26	1.84	1.21	2.83	4.90	9.85	6.38	5.09	3.91	8.05
IN.	6.07	5.58	7.22	2.12	1.26	3.26	5.47	11.36	7.12	5.86	4.51	8.98

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)#

MEAN	59.4	30.9	27.2	16.1	13.4	12.1	29.3	79.0	84.1	51.9	38.7	61.5
MAX	97.9	49.5	65.7	26.5	36.9	27.2	49.6	107	147	90.5	69.7	95.0
(WY)	1999	1994	1990	2003	1992	1992	1994	1992	1992	2000	1991	1991
MIN	34.7	14.6	8.27	5.50	3.43	2.82	3.56	51.7	50.7	20.8	16.6	33.3
(WY)	1994	1991	1997	1997	1999	2002	2002	2003	2003	2003	2004	1995

e Estimated

15101490 GREENS CREEK AT GREENS CREEK MINE NEAR JUNEAU—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005#	
ANNUAL TOTAL	15245.3		15946.8			
ANNUAL MEAN	41.7		43.7		42.2	
HIGHEST ANNUAL MEAN					60.1	1992
LOWEST ANNUAL MEAN					31.8	1998
HIGHEST DAILY MEAN	117	Dec 2	150	May 14	465	Oct 20 1998
LOWEST DAILY MEAN	7.5	Mar 23	6.4	Feb 22	a1.2	Apr 3 2002
ANNUAL SEVEN-DAY MINIMUM	8.6	Mar 18	7.2	Feb 16	1.2	Apr 8 2002
MAXIMUM PEAK FLOW			220	Nov 3	b710	Oct 20 1998
MAXIMUM PEAK STAGE			2.90	Nov 3	c14.79	Oct 20 1998
INSTANTANEOUS LOW FLOW			d6.3	Feb 21	e0.98	Mar 20 2002
ANNUAL RUNOFF (AC-FT)	30240		31630		30550	
ANNUAL RUNOFF (CFSM)	4.83		5.07		4.89	
ANNUAL RUNOFF (INCHES)	65.79		68.82		66.46	
10 PERCENT EXCEEDS	94		87		91	
50 PERCENT EXCEEDS	28		36		31	
90 PERCENT EXCEEDS	11		12		6.9	

\# See Period of Record; partial year was used in monthly statistics.
a Apr. 3-4, 8, and 11-14
b From rating curve extended above 140 ft^3/s on basis of slope area measurement of peak flow.
c Same site, different datum
d Feb. 21-23
e Mar. 20, and Apr. 7-11

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. 12	2000	588	3.79	Dec. 16	1345	1120	4.73
Oct. 29	0230	892	4.37	Dec. 23	1215	874	4.34
Nov. 03	1330	*1730	*5.52	Mar. 10	1015	583	3.78
Nov. 20	2145	715	4.05	Sept. 18	1715	839	4.28
Dec. 02	1330	939	4.45	Sept. 28	2345	857	4.31

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	50	293	113	e17	85	107	43	43	20	13	20	66
2	41	180	414	e15	46	109	37	43	18	15	15	35
3	32	707	253	e18	33	72	35	45	16	64	27	25
4	51	162	85	20	27	144	44	49	23	71	46	20
5	181	89	58	22	22	86	67	51	20	44	58	41
6	114	61	47	20	e20	61	78	45	15	43	44	162
7	106	49	36	17	e19	68	51	46	14	34	27	181
8	130	41	32	e13	99	189	41	51	12	25	20	100
9	75	35	34	e12	72	154	55	50	12	21	17	45
10	67	30	39	13	97	332	58	62	12	18	15	32
11	47	27	124	e12	58	165	49	60	11	15	14	27
12	167	25	131	e10	34	105	49	59	11	13	12	24
13	122	90	62	e8.0	27	75	45	67	11	13	10	31
14	55	251	92	e9.0	25	66	39	109	25	19	9.6	23
15	44	185	98	e10	22	56	34	60	19	48	9.4	20
16	37	110	515	e10	36	48	34	44	14	26	9.3	18
17	29	64	265	e10	46	38	35	39	12	75	8.7	53
18	25	52	232	e9.0	34	32	38	32	11	74	34	386
19	22	116	199	e10	27	27	192	29	12	35	25	302
20	20	363	116	e10	25	24	122	31	12	24	23	119
21	21	178	62	e14	22	22	120	33	17	23	17	81
22	26	85	119	e25	28	24	78	28	17	26	77	63
23	24	78	504	e15	48	22	68	61	18	18	33	82
24	47	108	323	27	36	20	94	46	20	15	20	191
25	43	114	100	25	30	19	90	32	14	14	85	125
26	26	94	60	33	49	25	94	31	11	34	58	83
27	158	73	53	35	60	41	88	29	10	74	39	93
28	221	89	68	23	89	33	78	24	11	38	26	362
29	378	82	41	34	---	32	63	22	24	28	24	377
30	157	76	e28	131	---	34	47	22	18	22	78	158
31	114	---	e23	130	---	110	---	20	---	21	116	---
TOTAL	2630	3907	4326	757.0	1216	2340	1966	1363	460	1003	1017.0	3325
MEAN	84.8	130	140	24.4	43.4	75.5	65.5	44.0	15.3	32.4	32.8	111
MAX	378	707	515	131	99	332	192	109	25	75	116	386
MIN	20	25	23	8.0	19	19	34	20	10	13	8.7	18
AC-FT	5220	7750	8580	1500	2410	4640	3900	2700	912	1990	2020	6600
CFSM	8.32	12.8	13.7	2.39	4.26	7.40	6.42	4.31	1.50	3.17	3.22	10.9
IN.	9.59	14.25	15.78	2.76	4.43	8.53	7.17	4.97	1.68	3.66	3.71	12.13

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2005, BY WATER YEAR (WY)#

MEAN	115	78.3	66.1	49.7	49.2	45.2	66.6	97.7	62.8	29.6	32.3	76.9
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	22.7	38.3	15.3	6.41	5.73	17.5
(WY)	1970	1974	1978	1969	1969	1974	2002	2003	2005	1989	2004	1986

\# See Period of Record; partial year was used in monthly statistics.
e Estimated

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1968 - 2005#	
ANNUAL TOTAL	26099.8		24310.0			
ANNUAL MEAN	71.3		66.6		64.0	
HIGHEST ANNUAL MEAN					80.8	1992
LOWEST ANNUAL MEAN					44.1	1978
HIGHEST DAILY MEAN	707	Nov 3	707	Nov 3	1010	Oct 19 1998
LOWEST DAILY MEAN	a4.0	Aug 24	8.0	Jan 13	b3.2	Jul 28 1989
ANNUAL SEVEN-DAY MINIMUM	4.3	Aug 12	9.4	Jan 12	4.2	Jan 13 1974
MAXIMUM PEAK FLOW			1730	Nov 3	c1970	Oct 8 1990
MAXIMUM PEAK STAGE			5.52	Nov 3	5.83	Oct 8 1990
INSTANTANEOUS LOW FLOW					3.2	Jul 28 1989
ANNUAL RUNOFF (AC-FT)	51770		48220		46380	
ANNUAL RUNOFF (CFSM)	6.99		6.53		6.28	
ANNUAL RUNOFF (INCHES)	95.19		88.66		85.27	
10 PERCENT EXCEEDS	163		136		138	
50 PERCENT EXCEEDS	45		39		42	
90 PERCENT EXCEEDS	6.6		14		12	

\# See Period of Record; partial year was used in monthly statistics.
a Aug. 24 to Aug. 25
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.

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE—Continued

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, March 1987 to July 1996, 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°C. Temperature at the sensor was compared with the stream average by cross sections on January 6. No variation was found in the temperature cross section. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 16.5°C, July 15, 1993; minimum, 0.0°C, on many days during most winters.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 13.5°C, August 11-14; minimum, 0.0°C, on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JAN							
06...	1030	32.0	4.00	1.44	21	1.0	-.5
06...	1031	32.0	10.0	1.44	21	1.0	-.5
06...	1032	32.0	16.0	1.44	21	1.0	-.5
06...	1033	32.0	22.0	1.44	21	1.0	-.5
06...	1034	32.0	28.0	1.44	21	1.0	-.5

TEMPERATURE, WATER, DEGREE CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	---	---	---	4.0	3.5	3.5	4.0	4.0	4.0	0.0	0.0	0.0
2	---	---	---	3.5	3.0	3.0	4.0	3.5	4.0	0.0	0.0	0.0
3	---	---	---	3.5	3.0	3.5	4.0	2.5	3.5	1.5	0.0	0.5
4	---	---	---	4.0	3.5	3.5	3.0	2.5	3.0	1.5	1.0	1.5
5	---	---	---	3.5	3.0	3.0	3.0	2.0	2.5	1.5	1.0	1.5
6	---	---	---	3.0	3.0	3.0	2.0	2.0	2.0	1.0	0.5	1.0
7	---	---	---	3.0	3.0	3.0	2.0	1.0	1.5	0.5	0.0	0.0
8	---	---	---	3.0	2.0	2.5	1.5	1.0	1.0	0.5	0.0	0.0
9	---	---	---	2.5	2.0	2.5	1.5	1.0	1.5	0.5	0.0	0.0
10	---	---	---	2.0	1.5	2.0	2.0	1.5	1.5	1.0	0.0	0.5
11	---	---	---	2.0	1.5	2.0	2.0	1.0	1.5	0.0	0.0	0.0
12	---	---	---	2.5	2.0	2.5	2.0	1.0	1.5	0.0	0.0	0.0
13	8.5	8.0	8.0	2.5	1.5	2.0	2.0	1.5	2.0	0.0	0.0	0.0
14	8.0	7.0	7.5	3.0	2.0	2.5	2.0	1.5	2.0	0.0	0.0	0.0
15	7.5	6.5	7.0	3.5	3.0	3.5	2.5	2.0	2.0	0.0	0.0	0.0
16	6.5	5.0	6.0	3.5	3.0	3.5	3.0	2.0	2.5	0.0	0.0	0.0
17	5.0	4.5	4.5	3.5	3.0	3.0	3.5	3.0	3.0	0.0	0.0	0.0
18	4.5	3.5	4.0	3.5	3.0	3.5	3.5	1.5	3.5	0.0	0.0	0.0
19	3.5	3.0	3.5	4.0	3.0	3.5	2.5	1.5	2.0	0.0	0.0	0.0
20	4.0	3.5	3.5	4.5	4.0	4.0	2.5	2.5	2.5	0.0	0.0	0.0
21	4.0	3.0	3.5	4.0	3.5	4.0	2.5	2.0	2.5	0.0	0.0	0.0
22	3.5	3.0	3.0	4.0	3.5	3.5	3.0	2.5	2.5	0.0	0.0	0.0
23	3.0	2.0	2.5	4.0	2.5	3.5	3.5	2.5	3.0	0.5	0.0	0.0
24	3.5	3.0	3.0	3.0	2.5	2.5	3.5	2.5	3.0	1.0	0.5	0.5
25	4.0	3.0	3.5	3.0	2.5	2.5	2.5	1.5	2.0	1.0	1.0	1.0
26	3.5	2.5	3.0	3.0	2.5	2.5	1.5	1.0	1.5	1.0	0.5	1.0
27	4.5	3.5	4.0	3.5	3.0	3.0	1.5	0.5	1.0	1.0	0.5	0.5
28	5.0	4.0	4.5	3.5	3.0	3.5	1.5	1.0	1.0	1.0	0.5	1.0
29	5.0	4.5	4.5	3.5	3.5	3.5	1.0	0.0	0.5	1.0	1.0	1.0
30	4.5	3.5	4.0	4.0	3.5	3.5	0.0	0.0	0.0	1.0	0.0	0.5
31	4.0	3.5	3.5	---	---	---	0.0	0.0	0.0	1.0	0.0	0.5
MONTH	---	---	---	4.5	1.5	3.0	4.0	0.0	2.1	1.5	0.0	0.4

15106920 KADASHAN RIVER ABOVE HOOK CREEK NEAR TENAKEE—Continued

TEMPERATURE, WATER, DEGREE CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.0	0.0	0.5	2.0	1.5	2.0	1.5	0.0	1.0	6.0	4.5	5.0
2	1.5	0.5	1.0	2.5	2.0	2.0	1.0	0.0	0.5	6.0	4.5	5.5
3	1.5	1.0	1.5	2.5	2.0	2.0	2.0	0.5	1.0	6.0	5.0	5.5
4	1.5	0.5	1.0	2.0	1.5	2.0	2.5	1.0	1.5	6.0	4.5	5.5
5	0.5	0.0	0.0	2.5	1.5	2.0	2.5	1.5	2.0	6.0	4.5	5.5
6	0.0	0.0	0.0	2.5	1.5	2.0	2.5	1.5	2.0	6.5	4.0	5.5
7	0.5	0.0	0.0	3.0	2.0	2.0	2.5	1.0	2.0	7.0	4.5	6.0
8	0.5	0.0	0.5	2.5	1.5	2.0	3.0	1.5	2.0	7.0	4.5	6.0
9	1.0	0.5	0.5	2.5	1.5	2.0	3.5	2.5	3.0	7.5	5.0	6.0
10	1.0	0.5	1.0	2.5	1.5	2.0	3.5	2.0	3.0	7.5	5.0	6.5
11	1.5	1.0	1.0	2.5	2.0	2.0	4.0	2.5	3.0	7.5	6.0	6.5
12	1.0	0.5	1.0	3.0	2.5	2.5	3.5	2.5	3.0	6.5	6.0	6.0
13	1.0	0.5	1.0	3.5	2.5	3.0	3.5	2.0	3.0	6.5	6.0	6.0
14	1.5	0.5	1.0	3.5	2.5	3.0	4.0	2.5	3.0	7.0	6.0	6.5
15	2.0	1.0	1.5	3.0	2.0	2.5	3.5	2.0	3.0	7.0	5.5	6.5
16	1.5	1.5	1.5	2.5	1.5	2.0	4.5	3.0	3.5	8.0	6.0	7.0
17	1.5	1.5	1.5	2.0	1.0	1.5	4.0	2.5	3.5	7.5	6.0	7.0
18	2.0	1.5	1.5	2.0	1.0	1.5	3.5	2.5	3.0	8.0	5.5	6.5
19	2.0	1.5	1.5	1.0	0.5	0.5	4.0	3.0	3.5	8.0	6.5	7.0
20	1.5	1.0	1.0	0.5	0.0	0.5	4.0	3.0	3.5	9.0	7.0	7.5
21	2.0	1.0	1.5	1.0	0.0	0.5	4.5	3.5	4.0	8.5	7.0	7.5
22	2.0	1.5	2.0	2.0	1.0	1.5	5.0	3.0	4.0	8.5	6.0	7.5
23	2.0	1.5	1.5	2.5	1.5	2.0	5.0	3.0	4.0	8.0	7.0	7.5
24	2.0	1.5	1.5	2.0	1.0	1.5	5.5	3.0	4.0	7.5	7.0	7.5
25	2.0	1.5	1.5	2.0	1.0	1.5	5.5	3.5	4.5	8.5	6.5	7.5
26	2.0	1.5	2.0	3.0	2.0	2.5	6.0	3.5	4.5	8.5	7.5	8.0
27	2.5	1.5	2.0	2.5	2.0	2.0	6.0	3.5	5.0	8.0	7.5	8.0
28	2.0	1.5	2.0	2.0	1.5	1.5	6.0	4.0	5.0	9.0	7.0	8.0
29	---	---	---	2.0	1.0	1.5	6.0	4.0	5.0	9.0	8.0	8.5
30	---	---	---	2.5	1.5	2.0	5.5	3.0	4.5	9.5	8.0	9.0
31	---	---	---	2.0	1.0	1.5	---	---	---	9.5	7.0	8.5
MONTH	2.5	0.0	1.2	3.5	0.0	1.8	6.0	0.0	3.1	9.5	4.0	6.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.0	8.0	9.0	11.5	11.0	11.5	11.5	10.0	10.5	10.5	10.0	10.0
2	10.0	7.5	9.0	11.5	10.5	11.0	12.0	10.5	11.0	10.5	9.5	10.0
3	10.0	7.5	9.0	11.0	10.5	11.0	11.5	10.5	11.0	10.5	9.5	10.0
4	9.0	8.0	8.5	11.5	10.5	11.0	11.0	10.5	11.0	10.0	9.0	9.5
5	10.0	8.0	9.0	11.0	10.5	11.0	11.5	11.0	11.0	10.0	9.0	9.5
6	10.5	8.0	9.0	11.5	10.5	11.0	12.0	11.0	11.5	11.0	10.0	10.5
7	11.0	8.0	9.5	11.0	10.5	11.0	12.0	10.5	11.5	11.0	10.5	10.5
8	11.0	9.0	10.0	12.0	9.5	10.5	12.5	10.5	11.5	10.5	9.5	10.0
9	11.0	9.0	10.0	11.5	10.5	11.0	13.0	10.5	12.0	9.5	8.5	9.0
10	12.0	9.5	10.5	11.5	11.0	11.0	13.0	11.0	12.0	9.5	9.0	9.5
11	10.5	9.5	10.0	11.5	10.5	11.0	13.5	11.0	12.5	10.0	9.5	9.5
12	10.0	9.0	9.5	11.5	11.0	11.5	13.5	11.5	12.5	10.0	9.5	9.5
13	11.0	9.0	10.0	11.5	10.5	11.0	13.5	11.5	12.5	10.5	9.5	10.0
14	10.0	9.5	10.0	11.5	10.5	11.0	13.5	12.0	13.0	10.0	9.0	9.5
15	10.0	9.0	9.5	11.5	11.0	11.0	13.0	12.5	12.5	10.0	9.0	9.5
16	10.5	8.5	9.5	11.5	10.0	11.0	13.0	12.0	12.5	9.5	9.0	9.0
17	12.0	8.5	10.5	12.0	11.0	11.5	13.0	11.5	12.5	10.0	9.0	9.5
18	13.0	9.5	11.5	11.5	11.0	11.0	13.0	12.0	12.5	10.0	9.5	10.0
19	11.5	10.5	11.0	11.5	10.5	11.0	13.0	12.0	12.5	9.5	9.0	9.0
20	11.0	10.0	10.5	11.5	10.0	10.5	12.5	11.5	12.0	9.0	8.5	9.0
21	10.0	9.5	9.5	11.5	10.5	11.0	12.0	11.5	12.0	9.0	8.5	8.5
22	10.0	9.0	9.5	12.0	10.5	11.5	12.5	11.5	12.0	9.0	8.0	8.5
23	9.5	9.0	9.5	12.5	11.0	11.5	12.0	11.0	11.5	9.5	8.5	9.0
24	10.5	9.5	10.0	12.0	11.0	11.5	11.5	11.0	11.0	10.0	9.5	10.0
25	11.0	9.0	10.0	11.5	11.0	11.5	12.0	11.0	11.5	9.5	8.5	9.0
26	12.0	9.5	10.5	12.0	11.0	11.5	11.5	11.0	11.0	8.5	7.0	7.5
27	12.0	10.0	11.0	12.5	11.5	12.0	11.0	10.5	11.0	7.5	7.0	7.0
28	11.5	11.0	11.0	12.0	11.0	11.5	11.0	9.5	10.0	9.0	7.5	8.5
29	11.5	11.0	11.0	11.5	11.0	11.0	10.5	10.0	10.0	8.5	8.0	8.5
30	12.0	11.0	11.5	11.5	10.5	11.0	11.0	10.5	10.5	8.0	7.5	8.0
31	---	---	---	11.0	10.5	11.0	10.5	10.0	10.5	---	---	---
MONTH	13.0	7.5	10.0	12.5	9.5	11.1	13.5	9.5	11.6	11.0	7.0	9.2

15106970 MIDDLE BASIN CREEK NEAR TENAKEE

LOCATION.--Lat 57°41'33", long 135°12'06", in NE$^1/_4$ NE$^1/_4$ SE$^1/_4$ sec. 21, T. 48 S., R. 63 E. (Sitka C-4 quad), Hydrologic Unit 19010203, 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

WATER-DISCHARGE RECORDS

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 estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.46	2.8	1.1	1.2	0.98	0.88	e1.0	e0.67	e0.36	0.18	0.19	0.19
2	0.42	2.2	3.2	1.0	0.82	e0.90	e0.62	e0.65	e0.35	0.17	0.19	0.17
3	0.37	6.7	4.5	0.97	0.71	e1.2	e0.57	e0.66	e0.35	0.25	0.20	0.16
4	0.43	5.3	4.0	0.93	0.61	e1.2	e0.60	e0.68	e0.35	0.28	0.20	0.13
5	0.64	3.5	3.0	0.90	0.47	e1.4	e0.75	e0.71	e0.39	0.23	0.21	0.13
6	0.53	2.8	2.3	0.68	0.41	e1.0	e0.96	e0.70	e0.26	0.21	0.20	0.28
7	0.54	2.2	2.0	0.57	0.48	e0.90	e0.90	e0.67	0.24	0.20	0.19	0.37
8	0.73	1.9	1.7	0.57	0.81	e1.3	e0.69	e0.70	0.24	0.22	0.19	0.29
9	0.64	1.4	1.2	0.53	0.82	e1.9	e0.69	e0.73	0.23	0.22	0.19	0.23
10	0.60	1.0	1.1	0.59	0.98	e2.3	e0.79	e0.77	0.22	0.20	0.19	0.26
11	0.52	0.89	1.6	0.43	0.85	e3.0	e0.77	e0.84	0.20	0.18	0.19	0.27
12	1.0	0.84	1.6	0.34	0.70	e2.0	e0.71	e0.83	0.20	0.18	0.20	0.27
13	0.88	0.90	1.2	0.38	0.56	e1.7	e0.70	e0.85	0.20	0.16	0.20	0.26
14	0.73	1.6	1.2	0.39	0.48	e1.3	e0.64	e1.3	0.24	0.18	0.20	0.24
15	0.69	1.4	1.2	0.43	0.47	e1.1	e0.59	e1.1	0.20	0.20	0.18	0.23
16	0.60	1.3	3.9	0.47	0.52	e0.90	e0.55	e0.76	0.20	0.16	0.18	0.22
17	0.53	1.3	4.1	0.52	0.57	e0.80	e0.55	e0.64	0.22	0.21	0.16	0.25
18	0.47	1.1	5.0	0.47	0.50	e0.70	e0.58	e0.57	0.22	0.23	0.21	0.65
19	0.42	1.3	5.4	0.46	0.46	e0.60	e0.99	e0.51	0.20	0.20	0.19	0.89
20	0.40	2.8	3.6	0.45	0.42	e0.53	e1.8	e0.50	0.17	0.18	0.17	0.75
21	0.40	2.9	2.5	0.53	0.40	e0.46	e1.5	e0.52	0.16	0.18	0.15	0.66
22	0.40	2.7	2.4	0.71	0.44	e0.41	e1.3	e0.51	0.16	0.19	0.20	0.57
23	0.34	2.3	4.8	0.60	0.52	e0.41	e0.98	e0.60	0.17	0.19	0.14	0.54
24	0.40	2.2	8.3	0.56	0.51	e0.38	e1.0	e0.78	0.18	0.17	0.13	0.59
25	0.35	2.0	5.8	0.53	0.46	e0.36	e1.2	e0.61	0.18	0.17	0.21	0.52
26	0.31	1.8	3.7	0.64	0.57	e0.38	e1.2	e0.52	0.19	0.22	0.19	0.46
27	0.42	1.4	3.0	0.66	0.61	e0.50	e1.2	e0.50	0.19	0.26	0.18	0.59
28	0.61	1.3	3.1	0.59	0.74	e0.59	e1.1	e0.46	0.19	0.22	0.14	1.3
29	2.0	1.2	2.5	0.61	---	e0.53	e0.95	e0.41	0.20	0.20	0.14	3.3
30	2.0	1.1	2.0	0.94	---	e0.53	e0.78	e0.40	0.19	0.20	0.18	2.8
31	1.7	---	1.6	1.1	---	e0.79	---	e0.38	---	0.21	0.19	---
TOTAL	20.53	62.13	92.6	19.75	16.87	30.95	26.66	20.53	6.85	6.25	5.68	17.57
MEAN	0.66	2.07	2.99	0.64	0.60	1.00	0.89	0.66	0.23	0.20	0.18	0.59
MAX	2.0	6.7	8.3	1.2	0.98	3.0	1.8	1.3	0.39	0.28	0.21	3.3
MIN	0.31	0.84	1.1	0.34	0.40	0.36	0.55	0.38	0.16	0.16	0.13	0.13
MED	0.53	1.7	2.5	0.57	0.54	0.88	0.79	0.66	0.20	0.20	0.19	0.28
AC-FT	41	123	184	39	33	61	53	41	14	12	11	35
CFSM	5.52	17.3	24.9	5.31	5.02	8.32	7.41	5.52	1.90	1.68	1.53	4.88
IN.	6.36	19.26	28.71	6.12	5.23	9.59	8.26	6.36	2.12	1.94	1.76	5.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)#

MEAN	1.36	1.38	1.66	0.67	0.57	0.54	0.46	0.70	0.62	0.31	0.24	0.77
MAX	2.98	2.65	3.75	0.97	0.93	1.00	0.89	1.10	1.31	0.65	0.40	1.34
(WY)	2000	2000	2000	2003	2004	2005	2005	2004	2002	1999	2002	2000
MIN	0.66	0.83	0.45	0.47	0.30	0.26	0.17	0.42	0.23	0.18	0.10	0.26
(WY)	2005	2001	2002	2000	2000	2002	2002	2003	2005	2004	2004	2004

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

15106970 MIDDLE BASIN CREEK NEAR TENAKEE—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005#	
ANNUAL TOTAL	328.49		326.37			
ANNUAL MEAN	0.90		0.89		0.77	
HIGHEST ANNUAL MEAN					1.20	2000
LOWEST ANNUAL MEAN					0.61	2003
HIGHEST DAILY MEAN	8.3	Dec 24	8.3	Dec 24	31	Dec 27 1999
LOWEST DAILY MEAN	0.04	Sep 9	a0.13	Aug 24	b0.04	Sep 9 2004
ANNUAL SEVEN-DAY MINIMUM	0.06	Sep 5	0.16	Aug 23	0.06	Sep 5 2004
MAXIMUM PEAK FLOW			15	Nov 3	c66	Dec 27 1999
MAXIMUM PEAK STAGE			4.63	Nov 3	5.16	Dec 27 1999
INSTANTANEOUS LOW FLOW			d0.11	Aug 24	b0.03	Sep 9 2004
ANNUAL RUNOFF (AC-FT)	652		647		554	
ANNUAL RUNOFF (CFSM)	7.48		7.45		6.38	
ANNUAL RUNOFF (INCHES)	101.83		101.17		86.63	
10 PERCENT EXCEEDS	2.0		2.0		1.3	
50 PERCENT EXCEEDS	0.62		0.57		0.51	
90 PERCENT EXCEEDS	0.11		0.19		0.19	

\# See Period of Record; partial years used in monthly statistics
a Aug. 24, Sept. 4-5
b Sept. 9, 10, 18 and 19, 2004
c From rating curve extended above 3.0 ft^3/s
d Aug. 24, 28, 29, Sept. 4-5

15106970 MIDDLE BASIN CREEK NEAR TENAKEE—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--October 1981 to July 1987 (unpublished fragmentary records provided by the U.S. Forest Service), Water years 2000 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: July 2000 to current year.

INSTRUMENTATION.--Electronic water-temperature recorder with 15-minute recording interval since July 9, 2000.

REMARKS.--No record March 2 to June 6 due to recorder malfunction. No record June 10, 13, 30, July 9-12, 15-18, 21-27, August 15, and September 13 due to faulty probe. Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with stream average by cross section on January 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.--
WATER TEMPERATURE: Maximum, 11.0°C, August 16, 2004; minimum, 0.0°C, on many days during most winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 10.0°C, August 10-14; minimum, 0.0°C, on January 17 and 21.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JAN							
06...	1150	8.00	1.00	3.85	.69	2.5	-.5
06...	1151	8.00	3.00	3.85	.69	2.5	-.5
06...	1152	8.00	5.00	3.85	.69	2.5	-.5
06...	1153	8.00	7.00	3.85	.69	2.5	-.5

TEMPERATURE, WATER, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.5	7.5	7.5	5.0	4.5	5.0	5.0	4.5	5.0	1.5	1.0	1.5
2	7.5	7.5	7.5	5.0	4.5	4.5	5.0	5.0	5.0	2.0	1.0	1.5
3	7.5	7.0	7.5	5.0	4.5	5.0	5.0	4.0	4.5	2.5	2.0	2.0
4	7.5	7.5	7.5	5.0	4.0	4.5	4.0	3.5	4.0	2.5	2.5	2.5
5	8.0	7.5	7.5	4.5	4.0	4.0	3.5	3.0	3.5	3.0	2.5	2.5
6	7.5	7.5	7.5	4.0	4.0	4.0	3.0	3.0	3.0	2.5	2.0	2.5
7	7.5	7.5	7.5	4.0	3.5	4.0	3.0	2.0	2.5	2.0	1.5	2.0
8	7.5	7.0	7.5	4.0	3.0	3.5	3.0	2.0	2.5	2.5	1.5	2.0
9	7.5	7.0	7.0	4.0	3.5	3.5	3.0	2.5	3.0	2.0	1.5	1.5
10	7.0	6.5	7.0	3.5	3.0	3.0	3.0	3.0	3.0	2.5	1.5	2.0
11	7.0	6.0	6.5	3.5	3.0	3.0	3.5	3.0	3.0	1.5	0.5	1.0
12	7.5	6.0	6.5	3.5	3.0	3.5	3.5	3.0	3.5	0.5	0.5	0.5
13	7.5	7.0	7.5	4.0	3.5	4.0	3.5	3.0	3.5	1.0	0.5	1.0
14	7.0	7.0	7.0	4.5	4.0	4.5	3.5	3.5	3.5	1.5	1.0	1.0
15	7.0	6.5	7.0	5.0	4.5	4.5	4.0	3.5	3.5	1.5	1.0	1.5
16	6.5	5.5	6.0	4.5	4.0	4.5	4.5	4.0	4.0	1.5	1.0	1.0
17	6.0	5.5	5.5	4.5	4.0	4.0	4.5	4.0	4.5	1.5	0.0	1.5
18	5.5	5.0	5.0	4.5	4.0	4.0	4.5	3.5	4.5	1.5	1.0	1.5
19	5.0	4.5	5.0	4.5	4.5	4.5	4.0	3.5	4.0	2.0	1.5	1.5
20	5.0	4.5	5.0	5.0	4.5	5.0	4.0	3.5	4.0	2.0	1.0	2.0
21	5.0	4.5	5.0	5.0	4.5	4.5	3.5	3.5	3.5	2.0	0.0	1.5
22	5.0	4.5	4.5	4.5	4.5	4.5	4.0	3.5	4.0	2.0	1.5	2.0
23	4.5	4.0	4.5	4.5	3.5	4.0	4.5	4.0	4.5	2.0	2.0	2.0
24	5.0	4.5	4.5	4.0	3.5	4.0	4.5	4.0	4.5	2.0	2.0	2.0
25	5.0	4.5	4.5	4.0	4.0	4.0	4.0	3.0	3.5	2.5	2.0	2.0
26	5.0	4.0	4.5	4.5	4.0	4.0	3.0	2.5	3.0	2.0	2.0	2.0
27	5.5	5.0	5.0	4.5	4.0	4.5	3.0	2.5	3.0	2.5	2.0	2.0
28	5.5	5.0	5.5	4.5	4.5	4.5	3.0	2.5	3.0	2.5	2.0	2.0
29	5.5	5.0	5.5	4.5	4.5	4.5	2.5	1.5	2.0	2.5	2.0	2.5
30	5.0	4.5	5.0	5.0	4.5	4.5	1.5	1.0	1.5	2.5	2.0	2.0
31	5.0	4.5	4.5	---	---	---	1.5	1.0	1.5	2.5	2.0	2.5
MONTH	8.0	4.0	6.1	5.0	3.0	4.2	5.0	1.0	3.5	3.0	0.0	1.8

15106970 MIDDLE BASIN CREEK NEAR TENAKEE—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	2.5	1.5	2.0	3.0	2.5	2.5	---	---	---	---	---	---
2	2.5	2.0	2.5	---	---	---	---	---	---	---	---	---
3	2.5	2.0	2.5	---	---	---	---	---	---	---	---	---
4	2.5	1.5	2.0	---	---	---	---	---	---	---	---	---
5	1.5	1.0	1.5	---	---	---	---	---	---	---	---	---
6	1.5	0.5	1.0	---	---	---	---	---	---	---	---	---
7	1.5	1.0	1.5	---	---	---	---	---	---	---	---	---
8	2.0	1.5	1.5	---	---	---	---	---	---	---	---	---
9	2.0	2.0	2.0	---	---	---	---	---	---	---	---	---
10	2.0	2.0	2.0	---	---	---	---	---	---	---	---	---
11	2.5	2.0	2.0	---	---	---	---	---	---	---	---	---
12	2.0	2.0	2.0	---	---	---	---	---	---	---	---	---
13	2.0	1.5	1.5	---	---	---	---	---	---	---	---	---
14	2.0	1.5	2.0	---	---	---	---	---	---	---	---	---
15	2.0	2.0	2.0	---	---	---	---	---	---	---	---	---
16	2.5	2.0	2.0	---	---	---	---	---	---	---	---	---
17	2.5	2.0	2.5	---	---	---	---	---	---	---	---	---
18	2.5	2.0	2.5	---	---	---	---	---	---	---	---	---
19	2.5	2.0	2.0	---	---	---	---	---	---	---	---	---
20	2.5	2.0	2.0	---	---	---	---	---	---	---	---	---
21	2.5	2.0	2.5	---	---	---	---	---	---	---	---	---
22	2.5	2.0	2.5	---	---	---	---	---	---	---	---	---
23	2.5	2.0	2.5	---	---	---	---	---	---	---	---	---
24	2.5	2.0	2.5	---	---	---	---	---	---	---	---	---
25	2.5	2.0	2.5	---	---	---	---	---	---	---	---	---
26	2.5	2.5	2.5	---	---	---	---	---	---	---	---	---
27	2.5	2.5	2.5	---	---	---	---	---	---	---	---	---
28	3.0	2.0	2.5	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
MONTH	3.0	0.5	2.1	---	---	---	---	---	---	---	---	---

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

15129000 ALSEK RIVER NEAR YAKUTAT
(International gaging station)

LOCATION.--Lat 59°23'42", long 138°04'55", in NW$^1/_4$ NE$^1/_4$ 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.

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. GOES satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	46900	11800	8430	e8600	e5700	e4900	e5000	24500	62400	107000	67800	49600
2	56200	11400	10500	e7900	e5600	e4900	e4900	23200	62100	106000	65900	43700
3	51200	12500	11300	e7300	e5400	e5000	e4900	22300	61500	104000	73600	39900
4	51700	13100	10200	e7400	e5200	e5000	e4900	22200	63900	104000	82200	38500
5	53600	12000	8050	e7600	e5100	e5100	e5000	22400	72500	98100	80200	43500
6	45700	11300	7100	e7300	e5000	e5100	e5200	22600	75300	97500	79800	53900
7	37100	10400	6910	e7000	e4900	e5200	e5300	22800	71400	89700	82500	57400
8	31600	9440	6420	e6700	e5100	e5300	e5100	23500	69100	90700	85600	54700
9	27600	9500	6180	e6500	e5100	e5400	e5100	24600	69400	96600	93400	49800
10	25600	9470	6370	e6300	e5100	e5400	e5200	26600	71700	99500	97700	46000
11	23500	9320	6470	e6200	e5000	e5500	e5500	29400	71100	100000	103000	50300
12	20900	9260	8610	e6000	e4900	e5500	e5800	33400	72300	102000	111000	51000
13	24300	9410	9330	e5900	e4800	e5600	e5900	36300	71500	104000	118000	58400
14	24700	9380	8630	e5800	e4800	e5700	e6200	40500	76900	99000	126000	56400
15	24100	9270	7990	e5700	e4900	e5700	e6500	48800	85100	90000	125000	47800
16	22500	9070	8550	e5700	e5000	e5800	e6700	51800	88000	90000	115000	42900
17	20700	8780	10600	e5800	e5000	e5800	e7000	49800	97500	95800	104000	43400
18	19000	8390	10600	e5800	e5000	e5700	e7200	47700	110000	95300	102000	43300
19	17200	8500	10200	e5700	e5000	e5600	e7420	47700	120000	84800	99900	42700
20	16000	8720	9740	e5600	e4900	e5600	e7620	48800	127000	80100	86500	38100
21	14800	8770	9020	e5600	e4800	e5500	e9290	51700	120000	75600	74500	32700
22	13800	8470	9390	e5600	e4900	e5300	e10500	52100	108000	81300	69500	28400
23	12700	8140	18300	e5500	e4900	e5200	e11700	51200	98700	87300	67200	27200
24	12000	8180	25700	e5500	e4900	e5200	e13200	51400	93400	90400	81800	38100
25	11500	8140	19700	e5500	e5000	e5100	e15000	51400	91800	88900	126000	45300
26	10900	7770	16700	e5500	e5000	e5100	e16500	52200	91700	83600	125000	39300
27	11200	7560	e15000	e5500	e4900	e5300	e18000	54100	92200	87600	108000	34400
28	11700	7750	e12300	e5600	e4900	e5300	e20700	56500	95800	92200	98200	36400
29	13400	8620	e11000	e5600	---	e5100	24400	58700	98200	89300	80000	34300
30	13200	8370	e10000	e5600	---	e5100	25300	60400	102000	81200	65900	29900
31	12500	---	e9300	e5800	---	e5000	---	61200	---	74800	57400	---
TOTAL	777800	282780	328590	192100	140800	165000	281030	1269800	2590500	2866300	2852600	1297300
MEAN	25090	9426	10600	6197	5029	5323	9368	40960	86350	92460	92020	43240
MAX	56200	13100	25700	8600	5700	5800	25300	61200	127000	107000	126000	58400
MIN	10900	7560	6180	5500	4800	4900	4900	22200	61500	74800	57400	27200
AC-FT	1543000	560900	651800	381000	279300	327300	557400	2519000	5138000	5685000	5658000	2573000
CFSM	2.32	0.87	0.98	0.57	0.46	0.49	0.87	3.79	7.98	8.55	8.50	4.00
IN.	2.67	0.97	1.13	0.66	0.48	0.57	0.97	4.37	8.91	9.85	9.81	4.46

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)#

MEAN	24530	9934	7272	5199	4272	4119	6712	27350	70170	87770	78150	47970
MAX	40300	19160	12640	9118	6625	6619	10870	40960	91330	104400	99370	76330
(WY)	1995	2003	2003	2001	1993	1992	1992	2005	2004	2004	1994	1995
MIN	12040	5828	3229	3045	2707	3033	4379	16770	53490	73510	59750	29040
(WY)	1997	1997	1997	1995	1995	1995	2002	2001	1996	1996	1996	1992

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005#	
ANNUAL TOTAL	12919450		13044600			
ANNUAL MEAN	35300		35740		31200	
HIGHEST ANNUAL MEAN					35850	1993
LOWEST ANNUAL MEAN					23920	1996
HIGHEST DAILY MEAN	133000	Jun 26	127000	Jun 20	175000	Aug 13 2002
LOWEST DAILY MEAN	2900	Jan 31	a4800	Feb 13	2280	Mar 13 1999
ANNUAL SEVEN-DAY MINIMUM	2910	Jan 30	4910	Feb 11	2310	Mar 8 1999
MAXIMUM PEAK FLOW			136000	Aug 25	b178000	Aug 13 2002
MAXIMUM PEAK STAGE			84.48	Aug 25	89.52	Aug 13 2002
ANNUAL RUNOFF (AC-FT)	25630000		25870000		22600000	
ANNUAL RUNOFF (CFSM)	3.26		3.30		2.88	
ANNUAL RUNOFF (INCHES)	44.42		44.85		39.18	
10 PERCENT EXCEEDS	101000		95800		84500	
50 PERCENT EXCEEDS	12600		15000		13100	
90 PERCENT EXCEEDS	3500		5100		3550	

\# See Period of Record; partial year was used in monthly statistics
a Feb. 13, 14 and 21
b From rating extended above 100,000 cfs
e Estimated

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. GOES satellite telemetry at station.

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. 04	1630	2210	70.65	Feb. 28	0030	1240	68.84
Dec. 03	0030	1040	68.35	Aug. 25	0600	1860	70.06
Dec. 23	1015	*3340	*72.33				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1250	434	575	325	330	930	253	213	166	86	119	397
2	1560	407	792	295	290	859	227	202	155	86	150	346
3	1740	570	884	275	266	814	210	192	146	84	225	304
4	1990	521	673	301	240	700	197	183	140	83	373	268
5	1710	458	531	374	e216	664	192	177	144	83	398	428
6	1170	400	431	351	e202	551	196	170	137	81	346	578
7	849	343	363	317	194	507	184	164	132	83	292	543
8	641	302	309	288	456	544	171	159	128	80	249	497
9	509	277	274	264	490	571	171	156	123	76	215	418
10	488	287	256	244	741	800	178	154	121	74	187	388
11	445	265	254	e225	553	681	165	152	119	73	164	360
12	389	246	629	e211	446	868	156	157	116	73	145	333
13	464	265	588	e200	370	733	150	164	113	74	130	332
14	466	258	480	e188	317	597	148	169	110	72	117	310
15	440	242	446	178	416	495	144	177	109	69	107	281
16	381	249	544	168	470	418	137	174	107	67	98	267
17	332	240	578	162	399	364	132	170	104	107	93	295
18	290	231	695	155	347	322	150	162	103	121	110	308
19	259	283	606	153	302	291	266	155	108	111	111	446
20	237	451	544	156	272	266	284	155	118	104	117	404
21	220	402	450	160	257	241	347	157	117	100	143	342
22	204	338	864	261	313	243	325	158	113	94	214	312
23	190	296	2910	287	431	250	295	152	107	85	203	320
24	209	302	2640	241	370	236	271	150	100	80	801	552
25	192	324	1740	221	410	222	255	149	96	80	1560	542
26	182	340	1070	203	527	212	246	175	92	80	1040	456
27	268	309	782	191	1010	256	238	201	89	91	713	435
28	372	451	644	201	1140	249	232	206	89	121	523	802
29	678	665	480	195	---	235	229	196	87	143	418	742
30	533	509	420	223	---	244	223	190	86	124	512	636
31	508	---	366	337	---	274	---	179	---	118	493	---
TOTAL	19166	10665	22818	7350	11775	14637	6372	5318	3475	2803	10366	12642
MEAN	618	356	736	237	421	472	212	172	116	90.4	334	421
MAX	1990	665	2910	374	1140	930	347	213	166	143	1560	802
MIN	182	231	254	153	194	212	132	149	86	67	93	267
AC-FT	38020	21150	45260	14580	23360	29030	12640	10550	6890	5560	20560	25080
CFSM	17.2	9.88	20.4	6.59	11.7	13.1	5.90	4.77	3.22	2.51	9.29	11.7
IN.	19.80	11.02	23.58	7.59	12.17	15.12	6.58	5.50	3.59	2.90	10.71	13.06

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)#

MEAN	531	348	402	282	269	245	234	262	219	179	278	478
MAX	878	598	739	620	545	516	370	418	345	292	612	838
(WY)	2000	1993	2000	2001	2004	1992	1998	1991	1991	1991	2002	1991
MIN	249	173	142	131	81.2	54.2	73.6	160	116	77.7	105	261
(WY)	2004	1999	1991	1996	1999	1989	2002	1996	2005	1993	1994	2003

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

15129500 SITUK RIVER NEAR YAKUTAT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005#	
ANNUAL TOTAL	120827		127387			
ANNUAL MEAN	330		349		311	
HIGHEST ANNUAL MEAN					382	1992
LOWEST ANNUAL MEAN					230	1996
HIGHEST DAILY MEAN	2910	Dec 23	2910	Dec 23	2910	Dec 23 2004
LOWEST DAILY MEAN	a69	Aug 25	67	Jul 16	b47	Mar 5 1989
ANNUAL SEVEN-DAY MINIMUM	74	Aug 20	72	Jul 10	48	Mar 3 1989
MAXIMUM PEAK FLOW			3340	Dec 23	3840	Oct 18 1999
MAXIMUM PEAK STAGE			72.33	Dec 23	72.99	Oct 18 1999
INSTANTANEOUS LOW FLOW			65	Jul 16	c47	Mar 5 1989
ANNUAL RUNOFF (AC-FT)	239700		252700		225000	
ANNUAL RUNOFF (CFSM)	9.17		9.69		8.63	
ANNUAL RUNOFF (INCHES)	124.85		131.63		117.24	
10 PERCENT EXCEEDS	631		664		591	
50 PERCENT EXCEEDS	230		257		234	
90 PERCENT EXCEEDS	104		107		111	

\# See Period of Record; partial year was used in monthly statistics
a Aug. 24-26
b Mar. 5-7 1989
c Mar. 5-7, 1989 and Apr. 15 and 17, 2002

15129500 SITUK RIVER NEAR YAKUTAT—Continued

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 0.5°C. Temperature at the sensor was compared with the stream average by cross section on June 15. No variation was found within the cross section. The variation found between mean stream temperature and sensor temperature was less than 0.2°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 20.5°C, June 24 and 25, 2004; minimum, 0.0°C, on many days during winters periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 18.5°C, July 5 and 8 and August 11-12; minimum, 0.0°C on several days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUN								
15...	1424	58.0	10.0	65.28	108	10	12.8	12.0
15...	1426	58.0	20.0	65.28	108	10	12.8	12.0
15...	1428	58.0	30.0	65.28	108	10	12.8	12.0
15...	1430	58.0	40.0	65.28	108	10	12.8	12.0
15...	1432	58.0	50.0	65.28	108	10	12.8	12.0

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	9.5	9.0	9.5	5.0	4.5	4.5	4.0	3.5	3.5	0.5	0.0	0.5
2	9.5	9.0	9.5	4.5	3.5	4.0	3.5	3.0	3.0	1.5	0.5	1.0
3	9.0	9.0	9.0	4.5	3.0	4.0	3.5	2.0	3.0	2.0	1.5	2.0
4	9.0	9.0	9.0	4.0	3.0	3.5	2.5	2.5	2.5	2.0	2.0	2.0
5	9.0	8.5	9.0	3.5	2.5	3.0	2.5	2.5	2.5	2.0	1.0	1.5
6	9.0	8.0	8.5	4.0	3.0	3.5	2.5	2.5	2.5	1.0	1.0	1.0
7	9.0	8.0	8.5	3.5	2.5	3.0	2.5	1.5	2.5	1.0	0.5	1.0
8	8.5	7.5	8.0	3.0	2.0	2.5	1.5	1.0	1.5	1.0	0.5	0.5
9	8.5	7.5	8.0	3.5	2.5	3.0	2.0	1.0	1.5	1.0	0.5	0.5
10	8.0	7.5	8.0	4.0	3.5	3.5	2.5	2.0	2.0	1.5	0.5	1.0
11	8.0	7.0	7.5	3.5	3.0	3.5	2.5	1.5	2.0	0.5	0.0	0.0
12	8.0	7.0	7.5	4.0	3.5	3.5	2.5	1.0	2.0	0.0	0.0	0.0
13	8.5	8.0	8.0	4.0	3.5	3.5	2.5	1.5	2.0	0.0	0.0	0.0
14	8.0	8.0	8.0	3.5	3.0	3.5	2.5	2.0	2.0	0.5	0.0	0.0
15	8.0	7.0	7.5	3.5	3.0	3.5	2.5	1.5	2.0	1.5	0.5	1.0
16	7.5	6.5	7.0	4.0	3.5	3.5	2.5	2.0	2.5	1.0	0.5	0.5
17	6.5	6.0	6.0	3.5	3.0	3.5	3.0	2.5	2.5	1.5	1.0	1.0
18	6.0	5.0	5.5	3.5	2.0	3.0	3.0	2.5	3.0	1.5	1.0	1.0
19	6.0	5.0	5.5	3.5	2.0	3.0	2.5	2.5	2.5	1.5	1.0	1.5
20	6.0	5.0	5.5	3.0	2.5	3.0	2.5	2.0	2.0	2.5	1.5	2.0
21	6.0	5.5	5.5	3.0	3.0	3.0	2.5	2.0	2.0	2.5	2.0	2.0
22	5.5	4.5	5.0	3.5	3.0	3.0	3.5	2.5	2.5	2.5	1.5	2.0
23	5.5	4.0	4.5	3.5	3.0	3.5	3.5	3.0	3.5	1.5	1.0	1.5
24	5.5	5.0	5.0	3.5	3.0	3.5	3.0	2.0	2.5	2.0	1.0	1.5
25	5.0	4.0	4.5	3.0	2.5	3.0	2.0	1.5	1.5	2.0	1.0	1.5
26	5.5	4.5	5.0	3.0	2.5	3.0	2.0	1.5	1.5	1.5	0.5	1.0
27	5.5	5.0	5.0	3.5	3.0	3.5	2.0	0.5	1.5	2.0	1.5	2.0
28	5.5	5.0	5.0	3.5	2.5	3.5	2.0	0.5	1.5	2.5	2.0	2.0
29	5.5	4.5	5.0	3.0	2.5	3.0	0.5	0.0	0.5	2.5	2.0	2.0
30	5.0	4.5	5.0	3.5	3.0	3.5	0.5	0.0	0.5	2.5	2.0	2.5
31	5.0	4.0	4.5	---	---	---	0.5	0.5	0.5	2.0	1.5	2.0
MONTH	9.5	4.0	6.7	5.0	2.0	3.4	4.0	0.0	2.1	2.5	0.0	1.2

15129500 SITUK RIVER NEAR YAKUTAT—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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	4.0	1.5	2.5	11.0	7.0	9.0
2	1.0	0.0	0.5	2.0	1.5	1.5	4.5	1.5	3.0	11.5	6.5	8.5
3	1.0	0.5	1.0	2.0	1.5	1.5	5.0	1.0	3.0	11.5	7.5	9.5
4	1.0	0.0	0.5	2.0	1.5	1.5	4.0	1.5	3.0	10.0	7.0	8.5
5	0.0	0.0	0.0	2.5	1.5	2.0	6.0	2.5	4.0	12.0	7.5	9.5
6	0.5	0.0	0.0	2.5	1.5	2.0	5.0	3.5	4.0	12.5	7.0	9.5
7	1.0	0.5	0.5	3.0	2.0	2.0	5.5	2.0	3.5	13.5	7.0	10.0
8	1.0	0.5	1.0	2.5	2.0	2.5	4.5	2.0	3.5	13.5	7.0	10.5
9	1.5	1.0	1.0	3.0	2.0	2.0	4.5	3.0	4.0	14.5	8.0	11.0
10	1.0	0.5	1.0	2.5	2.0	2.5	5.5	3.0	4.0	15.0	9.0	12.0
11	1.5	0.5	1.0	2.5	2.0	2.0	5.0	2.0	3.5	14.0	9.5	12.0
12	1.0	0.5	0.5	2.5	2.0	2.0	5.5	3.5	4.5	11.5	9.5	10.5
13	1.0	0.0	0.5	3.0	2.0	2.5	6.5	3.5	5.0	11.5	10.0	10.5
14	1.5	1.0	1.5	3.0	2.0	2.5	6.5	4.0	5.0	12.5	10.0	11.0
15	1.5	1.0	1.5	3.0	1.5	2.0	7.0	2.5	4.5	13.5	9.5	11.5
16	1.5	1.0	1.0	3.0	1.5	2.0	7.0	2.5	5.0	12.0	9.0	10.5
17	2.0	1.0	1.5	3.5	1.5	2.0	7.0	2.5	5.0	13.0	9.5	11.0
18	2.0	1.0	1.5	3.5	1.5	2.0	5.5	4.0	4.5	15.0	8.5	11.5
19	2.0	1.0	1.5	3.5	1.0	2.0	5.5	3.5	4.5	14.0	9.5	11.5
20	2.5	1.5	2.0	3.0	1.0	2.0	7.0	4.0	5.5	12.5	10.5	11.5
21	2.0	1.5	2.0	2.5	1.0	1.5	5.5	5.0	5.0	12.0	10.5	11.0
22	2.0	1.0	2.0	2.0	0.0	0.5	7.5	4.5	5.5	15.5	9.0	12.0
23	2.0	1.0	1.5	4.0	1.5	3.0	9.0	4.5	6.5	14.0	10.0	12.0
24	2.0	1.5	1.5	4.5	2.0	3.0	10.0	5.0	7.0	12.0	10.5	11.0
25	2.0	1.5	1.5	4.5	2.0	3.0	10.5	5.0	7.5	14.0	9.5	11.5
26	2.0	1.0	1.5	4.5	2.5	3.5	11.0	7.0	8.5	12.5	10.5	11.0
27	1.5	1.0	1.0	3.5	2.5	3.0	12.0	7.5	9.5	11.0	10.0	10.5
28	1.5	1.0	1.0	3.0	1.5	2.5	12.0	8.0	9.5	13.0	9.5	11.0
29	---	---	---	3.0	2.0	2.5	12.0	7.5	9.5	13.5	10.5	12.0
30	---	---	---	3.0	1.5	2.0	12.0	7.5	9.5	12.0	11.0	11.5
31	---	---	---	3.0	2.0	2.5	---	---	---	14.5	10.0	12.0
MONTH	2.5	0.0	1.1	4.5	0.0	2.2	12.0	1.0	5.3	15.5	6.5	10.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	15.0	11.0	12.5	14.5	13.5	14.0	14.0	12.0	13.0	14.0	11.5	12.5
2	15.5	10.0	12.5	14.5	12.5	13.5	15.5	12.5	14.0	14.0	11.5	12.5
3	16.0	10.0	13.0	16.0	12.5	14.5	13.5	12.5	12.5	14.0	11.0	12.5
4	13.5	10.5	12.0	15.0	13.0	14.0	13.0	12.5	12.5	13.0	11.5	12.5
5	14.0	10.0	11.5	18.5	12.0	15.0	14.0	12.5	13.0	12.0	11.0	11.5
6	16.5	9.5	13.0	16.5	13.5	14.0	15.5	13.0	14.0	12.0	11.0	11.5
7	15.0	11.0	13.0	15.0	12.5	14.0	16.5	13.0	14.5	12.0	11.5	11.5
8	14.5	11.0	13.0	18.5	12.5	15.5	17.0	13.5	15.0	13.0	11.0	12.0
9	16.0	11.0	13.5	18.0	12.5	15.5	18.0	13.0	15.0	13.0	11.0	12.0
10	14.0	11.5	12.5	17.0	14.0	15.0	18.0	13.5	15.5	12.5	12.0	12.0
11	14.5	11.0	12.5	15.5	13.0	14.0	18.5	13.5	16.0	12.5	11.5	12.0
12	14.0	11.5	13.0	14.5	13.5	14.0	18.5	14.5	16.0	12.0	11.5	12.0
13	16.5	11.0	13.5	14.5	12.5	13.5	18.0	13.5	15.5	12.5	11.0	11.5
14	15.0	11.5	13.5	16.0	12.5	14.0	17.0	13.5	15.5	12.5	10.0	11.0
15	13.5	12.0	12.5	18.0	12.0	15.0	15.5	14.0	14.5	12.5	10.0	11.0
16	17.5	12.0	14.5	16.0	13.5	14.5	16.0	13.0	14.5	11.5	11.0	11.0
17	18.0	11.5	15.0	13.5	12.5	13.0	15.0	13.0	14.0	11.5	10.5	11.0
18	17.0	13.0	15.0	14.5	12.5	13.5	14.0	12.5	13.0	11.0	10.0	10.5
19	15.5	13.0	14.0	16.0	13.0	14.5	14.0	12.5	13.5	10.5	10.0	10.0
20	15.0	12.0	13.5	15.0	12.5	14.0	13.5	12.0	13.0	11.5	10.0	10.5
21	15.0	11.5	13.0	15.0	12.5	14.0	13.0	12.0	12.5	11.5	9.5	10.5
22	14.0	12.0	13.0	17.0	12.0	14.5	15.0	12.0	13.0	11.0	10.0	10.5
23	16.5	12.0	14.0	15.0	12.0	13.5	14.0	12.5	13.0	11.0	10.0	10.5
24	18.0	11.5	14.5	14.5	12.5	13.5	13.0	12.5	13.0	11.5	10.5	11.0
25	18.0	12.0	15.0	14.0	12.5	13.5	14.5	13.0	13.5	11.5	10.0	10.5
26	18.0	12.0	15.0	15.5	12.5	14.0	14.0	13.5	14.0	11.0	10.0	10.5
27	17.5	13.5	15.0	15.0	12.5	14.0	15.5	13.0	14.0	10.0	9.0	9.5
28	16.0	13.5	14.5	15.0	12.5	13.5	15.5	12.5	14.0	9.5	9.0	9.0
29	15.0	13.5	14.0	14.5	12.0	13.0	14.0	13.0	13.5	9.5	9.0	9.5
30	15.5	13.0	14.5	14.0	12.0	13.0	13.0	11.5	12.0	10.0	9.5	9.5
31	---	---	---	13.5	12.0	12.5	13.5	11.5	12.5	---	---	---
MONTH	18.0	9.5	13.5	18.5	12.0	14.0	18.5	11.5	13.9	14.0	9.0	11.1

15129510 OLD SITUK RIVER NEAR YAKUTAT

LOCATION.--Lat 59°34'14", long 139°26'18", in NW¼ NE¼ NW¼ sec. 23, T. 27 S., R. 35 E. (Yakutat C-4 quad.), Yakutat Borough, Hydrologic Unit 19010401, in Tongass National Forest, on right bank 100 ft downstream from Forest Hwy. 10, 10.5 mi northeast of Yakutat.

DRAINAGE AREA.--4.78 mi^2, approximately.

PERIOD OF RECORD.--June 2003 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 77 ft above sea level, from topographic map.

REMARKS.--No estimated daily discharges. Records fair except for Oct. 1-2, July 24-28, and July 31-Sept. 30 which are poor.

REVISIONS.--The maximum peak discharge for the water year 2004 has been revised to 133 ft^3/s, Feb. 11, 2004, gage height 15.14 ft. Revised daily discharge, in cubic feet per second, for the period December 22 to 24, 2003, February 8 to 16, and February 20 to 24, 2004 are given below. These figures supersede those published in reports for 2004.

Daily Discharges

Dec. 22...99	Dec. 23...82	Dec. 24...70	Feb. 8...67	Feb. 9...93	Feb. 10...89	Feb. 11...122
Feb. 12...98	Feb. 13...82	Feb. 14...74	Feb. 15..66	Feb. 16..61	Feb. 20...64	Feb. 21....81
Feb. 22...73	Feb. 23...65	Feb. 24...62				

MONTH	TOTAL	MEAN	MAX	MIN	AC-FT	CFSM	IN
Dec. 2003	1319	42.5	99	25	2620	8.90	10.27
Feb. 2004	1772	61.1	122	25	3510	12.8	13.79
Wtr year 2004	11584.5	31.7	122	9.1	22980	6.62	90.16

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	63	79	70	41	97	47	30	19	12	20	65
2	119	58	100	68	37	96	45	30	18	12	17	61
3	142	73	104	68	33	93	43	30	19	12	23	54
4	201	65	83	71	31	89	40	28	18	12	29	50
5	179	59	75	72	31	86	41	27	18	12	35	69
6	135	55	70	61	30	78	39	28	18	12	31	82
7	115	52	67	57	32	80	38	28	18	11	30	81
8	102	50	62	54	51	85	36	26	17	12	28	73
9	90	48	60	53	51	82	37	26	18	11	24	63
10	88	50	58	54	62	104	37	26	17	11	25	59
11	79	48	57	49	53	90	35	24	16	9.9	24	53
12	77	48	83	46	46	101	34	24	16	9.6	23	51
13	83	50	75	44	42	89	33	24	16	9.0	22	49
14	77	49	63	43	40	83	32	25	16	9.3	22	45
15	72	48	66	45	49	77	32	24	15	9.2	21	42
16	67	46	80	45	49	72	31	23	16	8.5	20	52
17	63	44	79	44	46	67	29	22	15	12	19	52
18	59	43	95	43	42	63	31	22	15	11	25	49
19	57	47	84	42	40	61	42	22	15	10	22	54
20	55	62	75	41	40	60	43	21	14	9.8	19	49
21	54	61	69	42	40	57	48	20	13	9.9	19	46
22	52	55	118	49	47	58	45	20	13	9.5	23	46
23	50	56	339	48	51	56	44	18	14	9.2	22	49
24	57	58	208	42	50	53	43	17	13	9.2	69	63
25	48	57	137	40	51	51	41	17	13	10	99	58
26	47	55	117	38	60	51	39	21	13	10	63	52
27	59	53	116	40	89	53	38	22	13	12	53	56
28	66	66	103	38	102	51	37	22	13	13	47	93
29	82	82	88	37	---	48	35	21	12	17	47	97
30	66	70	79	41	---	48	32	20	12	19	77	89
31	64	---	75	45	---	50	---	19	---	21	70	---
TOTAL	2605	1671	2964	1530	1336	2229	1147	727	463	355.1	1068	1802
MEAN	84.0	55.7	95.6	49.4	47.7	71.9	38.2	23.5	15.4	11.5	34.5	60.1
MAX	201	82	339	72	102	104	48	30	19	21	99	97
MIN	47	43	57	37	30	48	29	17	12	8.5	17	42
AC-FT	5170	3310	5880	3030	2650	4420	2280	1440	918	704	2120	3570
CFSM	17.6	11.7	20.0	10.3	9.98	15.0	8.00	4.91	3.23	2.40	7.21	12.6
IN.	20.27	13.00	23.07	11.91	10.40	17.35	8.93	5.66	3.60	2.76	8.31	14.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)#

MEAN	59.0	43.8	69.1	39.3	54.5	52.8	43.3	29.3	16.7	13.8	24.0	37.4
MAX	84.0	55.7	95.6	49.4	61.1	71.9	48.3	35.2	18.0	17.5	34.5	60.1
(WY)	2005	2005	2005	2005	2004	2005	2004	2004	2004	2003	2005	2005
MIN	34.1	32.0	42.5	29.2	47.7	33.6	38.2	23.5	15.4	11.5	12.4	22.7
(WY)	2004	2004	2004	2004	2005	2004	2005	2005	2005	2005	2004	2004

See Period of Record; partial year was used in monthly statistics

15129510 OLD SITUK RIVER NEAR YAKUTAT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005#	
ANNUAL TOTAL	15490.5		17897.1			
ANNUAL MEAN	42.3		49.0		40.3	
HIGHEST ANNUAL MEAN					49.0	2005
LOWEST ANNUAL MEAN					31.7	2004
HIGHEST DAILY MEAN	339	Dec 23	339	Dec 23	339	Dec 23 2004
LOWEST DAILY MEAN	9.6	Jul 23	8.5	Jul 16	8.5	Jul 16 2005
ANNUAL SEVEN-DAY MINIMUM	9.8	Jul 20	9.5	Jul 10	9.5	Jul 10 2005
MAXIMUM PEAK FLOW			a455	Dec 23	a455	Dec 23 2004
MAXIMUM PEAK STAGE			16.01	Dec 23	16.01	Dec 23 2004
INSTANTANEOUS LOW FLOW			b7.9	Jul 13	b7.9	Jul 13 2005
ANNUAL RUNOFF (AC-FT)	30730		35500		29220	
ANNUAL RUNOFF (CFSM)	8.85		10.3		8.44	
ANNUAL RUNOFF (INCHES)	120.55		139.28		114.64	
10 PERCENT EXCEEDS	79		85		73	
50 PERCENT EXCEEDS	34		46		34	
90 PERCENT EXCEEDS	12		13		12	

\# See Period of Record; partial year was used in monthly statistics
a From rating curve extended above 124 ft^3/s
b July 13, 15-16, and 23-25.

15129510 OLD SITUK RIVER NEAR YAKUTAT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- June 2003 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: June 2003 to current year.

INSTRUMENTATION.--Water-temperature recorder set for 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 June 15, 2005. No variation was found within the cross section and no variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 16.0°C, June 19, 2004; minimum, 0.0°C on many days during most winters.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 14.5°C, July 8, 9,and 15; minimum, 0.0°C, March 22.

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
June							
15...	1345	27.0	4.0	14.44	14.9	8.0	12.0
15...	1346	27.0	8.0	14.44	14.9	8.0	12.0
15...	1347	27.0	12.0	14.44	14.9	8.0	12.0
15...	1348	27.0	16.0	14.44	14.9	8.0	12.0
15...	1349	27.0	20.0	14.44	14.9	8.0	12.0
15...	1350	27.0	24.0	14.44	14.9	8.0	12.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.5	7.0	7.0	4.5	4.0	4.0	5.0	4.5	4.5	2.0	1.5	1.5
2	7.5	7.0	7.5	4.0	2.5	3.5	4.5	3.5	4.0	3.5	2.0	2.5
3	7.5	7.0	7.0	4.5	2.5	4.0	4.0	2.5	3.5	4.0	3.5	3.5
4	7.5	7.0	7.5	4.0	2.5	3.5	3.5	3.0	3.0	4.0	4.0	4.0
5	7.5	7.0	7.0	3.5	2.0	2.5	3.5	3.0	3.0	4.0	3.0	3.5
6	7.0	6.0	6.5	3.5	2.5	3.0	3.5	3.0	3.5	3.0	2.0	2.5
7	7.0	6.0	6.5	3.5	2.5	3.0	3.5	2.5	3.0	2.5	2.0	2.0
8	7.0	6.0	6.5	3.0	1.5	2.5	2.5	2.0	2.0	2.0	2.0	2.0
9	6.5	5.5	6.0	4.0	2.5	3.5	3.5	2.0	2.5	2.5	2.0	2.0
10	6.5	6.0	6.5	4.0	3.5	4.0	3.5	2.5	3.0	3.0	2.0	2.5
11	6.5	5.0	6.0	4.0	3.5	4.0	3.5	2.0	2.5	2.0	0.5	1.0
12	7.0	5.5	6.0	4.5	4.0	4.0	4.0	3.5	3.5	1.5	0.5	1.0
13	7.0	6.5	7.0	4.5	4.0	4.5	3.5	3.0	3.5	1.5	1.0	1.5
14	7.0	6.5	6.5	4.0	3.5	4.0	4.0	3.0	3.5	2.5	1.0	1.5
15	6.5	5.0	6.0	4.0	3.5	3.5	4.0	3.0	3.5	3.0	2.0	2.5
16	5.5	5.0	5.0	4.5	4.0	4.0	4.5	4.0	4.0	2.5	2.0	2.5
17	5.0	4.0	4.5	4.0	3.5	4.0	4.5	4.0	4.5	3.0	2.5	2.5
18	4.5	3.5	4.0	4.0	1.5	3.5	4.5	4.0	4.5	2.5	2.0	2.0
19	4.5	3.5	4.0	4.0	2.0	3.5	4.0	4.0	4.0	2.5	1.5	2.0
20	5.0	4.0	4.5	4.0	4.0	4.0	4.0	3.0	3.5	3.5	2.5	3.0
21	5.0	4.5	4.5	4.0	3.5	4.0	4.0	3.0	3.5	4.0	3.0	3.5
22	4.5	3.5	4.0	4.0	3.5	4.0	4.5	4.0	4.0	4.0	4.0	4.0
23	4.5	3.0	3.5	4.0	4.0	4.0	4.5	4.0	4.5	4.0	3.0	3.5
24	5.0	4.0	4.5	4.0	3.5	4.0	4.5	3.5	4.0	3.5	2.5	3.0
25	4.0	3.5	3.5	4.0	3.5	3.5	3.5	2.5	3.0	3.5	2.5	3.5
26	4.5	3.5	4.0	4.0	3.5	3.5	3.5	2.5	3.0	3.0	2.0	2.5
27	5.0	4.5	5.0	4.5	4.0	4.0	3.5	1.0	2.0	3.5	2.5	3.0
28	5.0	4.5	5.0	4.5	4.0	4.5	3.5	2.5	3.0	3.5	2.5	3.0
29	5.0	4.5	5.0	4.0	4.0	4.0	3.0	2.0	2.5	4.0	3.5	3.5
30	4.5	3.5	4.0	4.5	4.0	4.5	2.0	1.5	1.5	4.0	3.5	4.0
31	4.0	3.0	3.5	---	---	---	2.0	1.5	2.0	4.0	3.5	4.0
MONTH	7.5	3.0	5.4	4.5	1.5	3.8	5.0	1.0	3.3	4.0	0.5	2.7

15129510 OLD SITUK RIVER NEAR YAKUTAT—Continued

TEMPERATURE, WATER, DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	3.5	2.5	3.0	3.5	3.0	3.5	5.0	2.5	4.0	10.5	4.5	7.0
2	2.5	1.0	1.5	4.0	3.5	3.5	6.0	2.0	4.0	10.5	4.5	7.0
3	2.0	1.5	2.0	4.0	3.0	3.5	6.0	2.5	4.0	9.5	5.5	7.0
4	2.0	1.5	2.0	4.0	3.0	3.5	5.0	2.5	4.0	7.5	5.5	6.5
5	1.5	1.0	1.0	4.0	3.5	3.5	7.0	3.5	5.0	10.5	5.0	7.0
6	2.5	1.0	1.5	4.0	3.5	3.5	5.5	4.0	5.0	11.0	5.0	7.5
7	2.5	1.0	2.0	4.5	3.5	4.0	6.5	3.0	4.5	11.5	5.0	8.0
8	2.5	1.0	2.0	4.5	3.5	4.0	5.5	3.0	4.0	12.5	5.0	8.0
9	3.0	2.0	2.5	4.5	4.0	4.0	5.0	4.0	4.5	12.0	5.5	8.5
10	3.0	2.5	2.5	4.0	3.5	4.0	6.0	4.0	5.0	12.5	6.0	8.5
11	3.5	2.5	3.0	4.5	3.5	3.5	5.5	3.0	4.5	11.5	6.0	8.5
12	2.5	2.0	2.5	4.0	3.5	3.5	6.0	4.0	5.0	8.5	7.0	7.5
13	2.5	1.5	2.0	5.0	3.5	4.0	7.0	4.0	5.5	8.5	6.5	7.5
14	3.5	2.5	3.0	4.5	3.5	4.0	7.0	4.5	5.5	9.0	6.5	7.5
15	3.5	3.0	3.5	4.5	2.5	3.5	8.0	3.0	5.0	11.0	6.5	8.0
16	3.5	3.0	3.0	4.5	2.5	3.5	8.5	3.0	5.0	9.0	5.5	7.5
17	4.0	3.0	3.5	4.5	2.5	3.5	8.5	3.0	5.5	9.5	6.0	7.5
18	3.5	3.0	3.0	5.0	2.5	3.5	5.5	4.5	4.5	12.5	5.0	8.0
19	3.5	2.5	3.0	4.5	2.0	3.5	5.5	4.0	5.0	10.0	6.0	8.0
20	4.5	3.5	3.5	4.0	2.5	3.0	7.5	5.0	6.0	9.0	6.5	7.5
21	4.0	3.0	3.5	3.5	1.5	2.5	6.0	5.0	5.5	9.0	6.5	7.5
22	3.5	3.0	3.5	3.0	0.0	1.5	8.0	5.0	6.0	12.5	5.0	8.0
23	4.0	3.0	3.5	5.5	2.0	4.0	9.0	4.5	6.5	11.0	6.5	8.5
24	4.0	3.0	3.5	6.0	3.0	4.5	10.0	4.5	7.0	8.5	7.0	7.5
25	3.5	3.0	3.5	5.5	3.0	4.0	10.5	5.0	7.5	10.5	5.5	8.0
26	3.5	3.5	3.5	6.0	3.5	4.5	10.0	6.0	7.5	8.5	7.0	7.5
27	3.5	3.0	3.5	5.0	4.0	4.5	10.5	5.5	7.5	7.5	6.5	7.0
28	3.5	3.0	3.5	4.0	2.5	3.5	11.0	6.0	8.0	9.0	6.0	7.5
29	---	---	---	4.5	3.0	3.5	11.0	5.5	7.5	10.0	6.5	8.0
30	---	---	---	3.5	2.5	3.0	11.5	5.0	7.5	8.5	7.0	7.5
31	---	---	---	4.5	3.0	3.5	---	---	---	10.5	6.0	8.0
MONTH	4.5	1.0	2.8	6.0	0.0	3.6	11.5	2.0	5.5	12.5	4.5	7.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	11.0	6.5	8.5	9.0	8.0	8.5	8.5	6.5	7.0	7.0	5.0	6.0
2	12.5	6.0	8.5	9.5	7.5	8.5	9.0	6.0	7.5	8.0	5.5	6.5
3	12.5	6.5	9.0	11.0	7.5	9.5	8.5	6.5	7.5	8.5	5.5	6.5
4	9.5	6.5	8.0	10.0	8.5	9.0	6.5	6.0	6.0	8.0	6.0	7.0
5	10.5	6.5	8.0	14.0	7.5	10.0	6.0	5.5	6.0	7.5	6.5	7.0
6	13.0	6.0	9.0	11.0	8.5	9.5	7.0	5.5	6.0	7.0	5.5	6.5
7	11.0	7.0	9.0	11.0	8.0	9.0	8.0	5.0	6.5	7.0	6.0	6.5
8	10.5	6.5	8.5	14.5	8.0	10.5	9.0	5.5	7.0	7.0	5.5	6.5
9	12.0	7.0	9.0	14.5	9.0	11.0	8.5	5.5	7.0	6.5	5.0	6.0
10	9.5	7.5	8.5	11.5	9.0	10.5	9.0	6.0	7.5	7.0	6.0	6.0
11	10.0	6.5	8.0	11.0	8.5	9.5	9.0	5.5	7.5	6.5	5.5	6.0
12	9.5	7.0	8.0	10.0	9.0	9.5	9.0	6.5	7.5	6.0	6.0	6.0
13	12.5	6.5	9.0	10.0	8.0	9.0	9.5	6.0	7.5	6.5	5.0	6.0
14	10.0	7.5	9.0	11.5	8.0	10.0	9.0	6.5	7.5	6.5	4.5	6.0
15	9.0	7.0	8.0	14.5	8.0	10.5	8.0	7.0	7.0	6.5	5.0	6.0
16	13.5	7.0	9.5	11.5	9.5	10.5	8.5	6.5	7.0	7.0	6.0	6.5
17	14.0	7.5	10.5	10.0	9.0	9.5	7.5	6.5	7.0	7.5	6.5	7.0
18	12.0	8.5	10.5	10.0	8.0	9.0	7.5	6.5	7.0	6.5	6.0	6.5
19	10.5	8.5	9.0	11.5	8.0	9.5	7.5	6.5	7.0	6.5	6.0	6.0
20	10.5	7.0	8.5	9.5	8.0	9.0	7.5	6.0	6.5	6.5	5.5	6.0
21	10.5	7.0	8.5	10.0	7.5	9.0	7.0	6.0	6.5	6.0	5.5	5.5
22	8.5	7.5	8.0	13.0	7.5	9.5	7.0	6.0	6.5	6.0	5.5	6.0
23	12.0	7.0	9.0	11.0	8.5	9.5	7.0	6.0	6.5	6.5	6.0	6.0
24	13.5	7.0	10.0	---	---	---	7.0	6.0	6.5	6.5	6.0	6.0
25	13.5	8.0	10.5	---	---	---	6.5	5.5	6.0	6.0	5.5	5.5
26	14.0	8.0	10.5	---	---	---	6.5	5.5	6.0	6.0	5.5	5.5
27	12.0	9.0	10.5	---	---	---	8.0	5.5	6.5	5.5	5.5	5.5
28	10.5	8.5	9.0	---	---	---	8.0	5.0	6.5	6.0	5.5	5.5
29	9.5	8.0	9.0	8.5	7.0	7.5	7.0	6.0	6.5	5.5	5.5	5.5
30	10.0	8.0	9.0	8.5	6.5	7.0	6.5	6.0	6.5	5.5	5.5	5.5
31	---	---	---	7.5	6.5	7.0	7.0	6.0	6.0	---	---	---
MONTH	14.0	6.0	9.0	---	---	---	9.5	5.0	6.8	8.5	4.5	6.1

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 fair, except for estimated daily discharges which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	45	31	29	e31	14	56	16	4.9	1.8	0.99	3.9	22
2	56	28	37	e29	12	52	14	4.5	1.7	0.96	3.2	19
3	73	34	42	e28	10	50	12	4.1	1.6	0.95	5.8	17
4	81	31	34	e28	8.8	48	11	3.9	1.6	1.1	16	15
5	76	27	30	e30	7.8	46	11	3.5	1.7	0.93	13	38
6	62	24	26	e24	7.1	40	10	3.1	1.5	0.92	9.0	42
7	53	23	24	e20	7.6	36	9.8	2.8	1.5	0.92	6.8	35
8	46	21	21	e18	24	35	9.1	2.8	1.4	0.89	5.7	30
9	38	20	19	e16	24	34	8.9	2.8	1.4	0.89	5.0	26
10	34	20	17	e15	28	40	9.9	2.7	1.4	0.88	4.5	25
11	28	18	16	e14	23	36	9.6	2.5	1.4	0.83	4.0	23
12	26	18	25	e12	20	42	8.7	2.4	1.4	0.83	3.7	21
13	30	20	26	e11	18	38	8.2	2.5	1.4	0.83	3.4	e20
14	29	20	23	e10	16	33	7.6	2.5	1.4	0.81	3.2	e19
15	30	19	23	e9.0	22	30	7.1	2.3	1.3	0.79	3.2	e17
16	26	20	30	8.8	24	27	6.5	2.0	1.3	0.77	3.0	e16
17	24	20	34	8.2	21	24	6.0	2.0	1.3	1.3	2.9	e18
18	22	20	41	7.7	19	23	7.1	2.0	1.2	1.2	3.6	e17
19	21	22	36	7.1	17	21	15	2.4	1.3	1.0	3.4	e17
20	19	32	31	6.6	16	20	15	1.9	1.3	0.99	3.2	e19
21	18	28	28	6.8	15	18	16	1.8	1.3	0.93	3.4	e18
22	17	25	47	13	18	18	14	1.7	1.1	0.91	4.7	e17
23	16	23	88	16	24	17	11	1.6	1.1	0.90	3.9	e16
24	19	22	77	13	22	16	9.9	1.5	1.1	0.90	71	e18
25	17	21	57	11	23	14	8.9	1.5	1.1	1.1	68	e23
26	17	21	e45	9.5	29	14	8.1	2.1	1.0	1.2	41	e21
27	24	19	e43	9.0	53	15	7.4	2.4	1.0	1.6	30	e19
28	34	22	e41	8.4	63	14	6.6	2.4	1.00	1.6	25	e21
29	46	31	e38	7.7	---	13	5.9	2.3	0.99	2.2	22	e45
30	37	27	e35	9.7	---	13	5.4	2.1	0.99	3.8	28	e53
31	33	---	e33	14	---	16	---	2.0	---	3.0	27	---
TOTAL	1097	707	1096	451.5	586.3	899	295.7	79.0	39.58	36.92	430.5	707
MEAN	35.4	23.6	35.4	14.6	20.9	29.0	9.86	2.55	1.32	1.19	13.9	23.6
MAX	81	34	88	31	63	56	16	4.9	1.8	3.8	71	53
MIN	16	18	16	6.6	7.1	13	5.4	1.5	0.99	0.77	2.9	15
AC-FT	2180	1400	2170	896	1160	1780	587	157	79	73	854	1400
CFSM	14.2	9.43	14.1	5.83	8.38	11.6	3.94	1.02	0.53	0.48	5.55	9.43
IN.	16.32	10.52	16.31	6.72	8.72	13.38	4.40	1.18	0.59	0.55	6.41	10.52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)

MEAN	30.3	24.2	23.9	18.9	17.4	16.6	14.8	12.1	6.06	3.91	8.88	18.0
MAX	60.7	43.8	49.1	42.7	36.1	38.3	28.3	34.4	19.7	9.67	19.4	30.8
(WY)	2000	2000	2000	2001	2004	1992	1998	1999	1999	1998	1998	1998
MIN	11.6	10.1	8.96	5.13	3.31	4.13	2.68	2.55	1.32	0.66	1.02	5.54
(WY)	2004	2004	1996	1993	1999	1999	2002	2005	2005	1993	2004	2004

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005	
ANNUAL TOTAL	6500.41		6425.50			
ANNUAL MEAN	17.8		17.6		16.3	
HIGHEST ANNUAL MEAN					23.3	2001
LOWEST ANNUAL MEAN					10.9	1993
HIGHEST DAILY MEAN	88	Dec 23	88	Dec 23	e118	Dec 27 1999
LOWEST DAILY MEAN	0.19	Aug 25	0.77	Jul 16	0.19	Aug 25 2004
ANNUAL SEVEN-DAY MINIMUM	0.39	Aug 20	0.82	Jul 10	0.39	Aug 20 2004
MAXIMUM PEAK FLOW			98	Dec 23	a159	Oct 18 1999
MAXIMUM PEAK STAGE			12.06	Dec 23	12.55	Oct 18 1999
INSTANTANEOUS LOW FLOW			b0.73	Jul 15	c0.10	Aug 25 2004
ANNUAL RUNOFF (AC-FT)	12890		12740		11770	
ANNUAL RUNOFF (CFSM)	7.10		7.04		6.50	
ANNUAL RUNOFF (INCHES)	96.73		95.61		88.32	
10 PERCENT EXCEEDS	35		38		35	
50 PERCENT EXCEEDS	18		16		13	
90 PERCENT EXCEEDS	1.1		1.3		2.9	

a May have been exceeded during period of gage malfunction from Dec. 25 to 28, 1999
b July 15 and 16
c Minimum recorded, Aug. 24 and 25, 2004, but may have been less during period water was below intake Jul. 28, Aug. 2, and Aug. 8 to Aug. 10, 1993
e Estimated

15199500 SINONA CREEK NEAR CHISTOCHINA

LOCATION.--Lat 62°35'28", long 144°38'48", in SW¼ of NW¼ sec. 3, T. 9 N., R. 4 E., (Gulkana C-2 quad), Hydrologic Unit 19020101, on downstream left bank, at Glenn Highway/Tok Cutoff (Alaska Route 1) bridge, 1.8 miles NE of Chistochina.

DRAINAGE AREA.--167 mi^2

PERIOD OF RECORD.--September 2002 to current year.

REVISED RECORD.--WRD AK-2004-1; 2003 (P)

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,900 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	20	e14	e12	e10	e5.0	e4.5	e12	e430	49	22	143	36
2	20	e13	e12	e11	e4.5	e4.5	e12	e400	44	21	121	44
3	19	e13	e12	e11	e4.5	e4.5	e12	355	45	24	101	42
4	19	e13	e11	e12	e4.5	e4.5	e13	308	42	28	86	40
5	19	e12	e11	e11	e4.5	e5.0	e13	e280	39	26	75	41
6	21	e12	e10	e11	e4.5	e5.0	e13	249	36	24	66	41
7	24	e12	e10	e11	e4.5	e5.5	e14	215	36	e22	58	41
8	26	e12	e10	e10	e4.5	e5.5	e14	164	35	e21	54	41
9	25	e12	e10	e10	e4.5	e6.0	e15	129	33	e21	49	40
10	23	e12	e10	e9.0	e4.5	e6.5	e15	128	31	e20	44	49
11	22	e12	e10	e8.5	e4.5	e7.0	e16	139	29	e20	40	56
12	20	e12	e10	e8.0	e4.5	e7.5	e16	131	28	e20	37	55
13	22	e12	e10	e8.0	e4.5	e8.0	e16	118	30	e19	35	62
14	23	e12	e10	e7.5	e4.5	e8.5	e17	114	29	e20	34	65
15	26	e11	e10	e7.0	e4.5	e8.5	e17	144	28	e20	32	66
16	26	e11	e10	e6.5	e4.5	e8.5	e17	180	28	e23	31	72
17	24	e11	e10	e6.5	e4.5	e9.0	e18	229	27	e22	30	67
18	e22	e11	e10	e6.0	e4.5	e9.0	e18	e280	25	e26	30	60
19	21	e11	e10	e6.0	e4.5	e9.0	e19	e220	26	27	30	55
20	20	e11	e10	e6.0	e4.5	e9.0	e20	131	39	29	29	54
21	18	e11	e10	e5.5	e4.5	e9.0	e23	106	40	27	29	52
22	e17	e11	e11	e5.5	e4.5	e9.0	e26	107	42	25	30	48
23	e17	e11	e11	e5.5	e4.5	e9.5	e30	121	47	25	31	49
24	e16	e11	e11	e5.5	e4.5	e9.5	e48	142	39	27	33	56
25	e16	e11	e10	e5.5	e4.5	e10	e70	126	30	28	32	62
26	e15	e12	e10	e5.5	e4.5	e10	e100	123	28	27	31	65
27	15	e12	e11	e5.5	e4.5	e11	e180	109	27	26	30	71
28	15	e12	e11	e5.0	e4.5	e11	e300	93	26	32	29	66
29	15	e12	e11	e5.0	---	e11	e450	80	25	36	29	61
30	15	e12	e10	e5.0	---	e11	e440	63	23	42	30	56
31	e14	---	e10	e5.0	---	e12	---	55	---	89	29	---
TOTAL	615	354	324	234.5	126.5	248.5	1974	5469	1006	839	1458	1613
MEAN	19.8	11.8	10.5	7.56	4.52	8.02	65.8	176	33.5	27.1	47.0	53.8
MAX	26	14	12	12	5.0	12	450	430	49	89	143	72
MIN	14	11	10	5.0	4.5	4.5	12	55	23	19	29	36
AC-FT	1220	702	643	465	251	493	3920	10850	2000	1660	2890	3200
CFSM	0.12	0.07	0.06	0.05	0.03	0.05	0.39	1.06	0.20	0.16	0.28	0.32
IN.	0.14	0.08	0.07	0.05	0.03	0.06	0.44	1.22	0.22	0.19	0.32	0.36
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)#												
MEAN	42.3	16.2	7.54	5.22	5.66	6.82	27.6	128	38.7	19.0	23.5	38.5
MAX	91.9	28.9	10.5	7.56	10.3	8.02	65.8	176	43.1	27.1	47.0	70.8
(WY)	2003	2003	2005	2005	2003	2003	2005	2005	2004	2005	2005	2002
MIN	14.9	7.97	4.65	2.52	2.25	4.42	6.72	97.4	33.5	14.2	10.7	14.5
(WY)	2004	2004	2004	2004	2004	2004	2004	2004	2005	2004	2004	2004

\# See period of record, partial years used in monthly statistics
e Estimated

15199500 SINONA CREEK NEAR CHISTOCHINA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005#	
ANNUAL TOTAL	7290.2		14261.5			
ANNUAL MEAN	19.9		39.1		29.2	
HIGHEST ANNUAL MEAN					39.1	2005
LOWEST ANNUAL MEAN					18.7	2004
HIGHEST DAILY MEAN	350	May 13	450	Apr 29	450	Apr 29 2005
LOWEST DAILY MEAN	a1.4	Jan 29	b4.5	Feb 2	a1.4	Jan 29 2004
ANNUAL SEVEN-DAY MINIMUM	1.4	Jan 29	4.5	Feb 2	1.4	Jan 29 2004
MAXIMUM PEAK FLOW			c412	May 3	c412	May 3 2005
MAXIMUM PEAK STAGE			c7.85	May 3	c7.85	May 3 2005
MAXIMUM PEAK STAGE			d10.37	Apr 26	d11.55	May 1 2004
ANNUAL RUNOFF (AC-FT)	14460		28290		21150	
ANNUAL RUNOFF (CFSM)	0.119		0.234		0.175	
ANNUAL RUNOFF (INCHES)	1.62		3.18		2.38	
10 PERCENT EXCEEDS	29		91		70	
50 PERCENT EXCEEDS	11		19		13	
90 PERCENT EXCEEDS	2.5		5.0		4.5	

\# See period of record, partial years used in monthly statistics
a Jan. 29 to Feb. 8
b Feb. 2 to Mar. 4
c Maximum recorded, but may have been higher during period of no gage-height record, Apr. 29 to May 3
d 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.

REMARKS.--Record is poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e20	3.2	107	e0.10	e0.40	21	2.0	1.4	2.8	0.24	13	0.25
2	e10	2.3	59	e0.50	e0.40	7.3	1.5	2.4	1.6	0.43	23	0.30
3	e100	31	9.0	e20	e0.30	40	1.1	2.8	1.00	0.68	29	0.34
4	e60	5.0	3.4	e60	e0.20	14	0.84	5.9	0.78	0.38	50	6.8
5	e10	3.1	2.3	e3.0	e0.20	44	3.1	4.1	0.64	0.29	11	50
6	e4.0	2.1	1.8	e0.60	e0.20	25	37	2.7	0.55	0.23	1.9	56
7	e3.0	2.1	1.5	e0.60	e1.0	48	13	2.1	0.51	0.28	0.93	9.9
8	e2.5	2.3	1.1	e0.50	e7.0	72	5.3	1.8	0.52	0.81	0.57	1.9
9	e2.0	6.4	e1.0	e0.50	e1.0	20	4.6	1.5	0.89	0.37	0.73	2.9
10	e4.0	159	e1.0	e0.50	e1.0	75	7.0	1.2	0.66	0.27	0.87	32
11	e4.0	61	e2.0	e0.30	e0.50	96	5.2	0.97	5.6	0.23	1.0	1.6
12	e60	52	e2.0	e0.50	e0.50	96	4.0	39	2.6	0.47	0.84	3.3
13	e30	37	e2.0	e0.50	e0.50	47	4.3	29	0.91	1.7	0.70	1.9
14	e6.0	4.8	e1.5	e0.50	e25	7.1	4.9	48	0.64	0.56	0.91	1.1
15	e3.0	3.1	e1.5	e0.50	50	3.7	4.0	10	0.53	0.34	0.83	12
16	e2.5	7.8	e1.5	e0.50	6.3	2.1	3.4	4.4	0.49	16	0.93	30
17	e2.0	4.1	e2.0	e0.50	12	1.8	3.5	7.7	0.41	10	1.3	26
18	e2.0	30	e8.0	e1.0	4.0	1.3	34	4.6	0.45	3.3	4.8	2.3
19	e6.0	56	e3.0	e1.5	15	1.2	53	1.5	0.67	4.3	5.1	1.2
20	e5.0	9.8	e1.5	e5.0	21	0.89	93	1.00	3.9	1.8	2.0	0.98
21	e7.0	2.1	e1.5	e2.0	14	0.66	21	1.5	1.0	10	62	1.2
22	e5.0	17	e8.0	e3.0	38	0.93	128	1.8	0.67	1.7	5.3	1.8
23	3.7	12	e5.0	e1.0	14	1.0	14	1.0	0.92	0.90	118	15
24	5.4	27	e2.0	e0.40	4.9	0.72	3.8	0.92	0.58	0.96	7.6	54
25	1.9	39	e0.60	e0.40	25	0.66	2.9	0.91	0.44	56	1.4	6.0
26	32	5.4	e0.40	e0.40	27	0.57	2.3	12	0.36	42	1.1	3.7
27	14	72	e0.30	e0.40	7.2	18	2.2	41	0.32	16	0.97	5.7
28	32	127	e0.20	e0.40	60	6.2	2.6	16	0.31	4.3	0.61	35
29	27	30	e0.10	e0.40	---	2.1	2.4	29	0.28	1.7	0.84	2.6
30	14	30	e0.10	e0.40	---	1.5	1.7	17	0.23	1.1	0.61	4.0
31	5.6	---	e0.10	e0.40	---	2.4	---	6.0	---	33	0.49	---
TOTAL	483.6	843.6	230.40	106.30	336.60	658.13	465.64	299.20	31.26	210.34	348.33	369.77
MEAN	15.6	28.1	7.43	3.43	12.0	21.2	15.5	9.65	1.04	6.79	11.2	12.3
MAX	100	159	107	60	60	96	128	48	5.6	56	118	56
MIN	1.9	2.1	0.10	0.10	0.20	0.57	0.84	0.91	0.23	0.23	0.49	0.25
AC-FT	959	1670	457	211	668	1310	924	593	62	417	691	733
CFSM	20.8	37.5	9.91	4.57	16.0	28.3	20.7	12.9	1.39	9.05	15.0	16.4
IN.	23.99	41.84	11.43	5.27	16.70	32.64	23.10	14.84	1.55	10.43	17.28	18.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)#

MEAN	15.9	13.8	11.8	11.9	10.8	7.84	12.2	9.97	4.73	5.69	8.67	11.3
MAX	20.2	28.1	20.4	26.6	20.7	21.2	22.4	16.1	9.35	6.79	15.2	19.9
(WY)	2001	2005	2000	2001	2003	2005	2004	2000	2002	2001	2003	2004
MIN	10.4	4.15	5.33	3.43	2.00	2.16	3.56	6.27	1.04	3.88	2.15	6.69
(WY)	2002	2004	2003	2005	2002	2004	2003	2003	2005	2003	2004	2003

\# See Period of Record
e Estimated

15215990 NICOLET CREEK NEAR CORDOVA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005#	
ANNUAL TOTAL	4050.96		4383.17			
ANNUAL MEAN	11.1		12.0		10.4	
HIGHEST ANNUAL MEAN					12.0	2005
LOWEST ANNUAL MEAN					8.90	2004
HIGHEST DAILY MEAN	200	Sep 26	159	Nov 10	200	Sep 26 2004
LOWEST DAILY MEAN	a0.10	Dec 29	a0.10	Dec 29	b0.10	Mar 12 2003
ANNUAL SEVEN-DAY MINIMUM	0.20	Jul 11	0.19	Dec 26	0.19	Dec 26 2004
MAXIMUM PEAK FLOW			c488	Aug 23	df988	Nov 3 1994
MAXIMUM PEAK STAGE			25.75	Aug 23	f19.60	Nov 3 1994
MAXIMUM PEAK STAGE					26.53	Sep 26 2004
INSTANTANEOUS LOW FLOW					g0.10	Jul 17 2004
ANNUAL RUNOFF (AC-FT)	8040		8690		7520	
ANNUAL RUNOFF (CFSM)	14.8		16.0		13.8	
ANNUAL RUNOFF (INCHES)	200.93		217.41		188.08	
10 PERCENT EXCEEDS	31		39		31	
50 PERCENT EXCEEDS	2.1		2.4		3.3	
90 PERCENT EXCEEDS	0.30		0.40		0.62	

\# See Period of Record
a Dec. 29 to Jan. 1 estimated
b Mar. 12 and Mar. 13
c From rating extended above 33 ft^3/s on basis of step-backwater analysis
d From rating curve extended above 66 ft^3/s on basis of slope-area measurement of peak flow
f Site and datum then in use
g Minimum observed, but may have been lower during periods of ice effect

15225990 SOLOMON LAKE NEAR VALDEZ

LOCATION.--Lat 61°04′25″, long 146°18′08″, in NE$^1/_4$ SW$^1/_4$ 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, 32,100 acre-ft August 24, elevation, 686.28 ft, from crest-stage gage and rating extended above 31,500 acre-ft; minimum contents, 3,750 acre-ft, April 24, elevation, 624.0 ft.

MONTH END RESERVOIR ELEVATION, IN FEET, AND CONTENTS, IN ACRE FEET
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DATE	ELEVATION	CONTENTS	CHANGE IN CONTENTS
SEP 30	684.4	31,000	----
OCT 31	680.2	27,800	-3,200
NOV 30	675.0	24,800	-3,000
DEC 31	668.1	21,100	-3,700
JAN 31	657.6	15,800	-5,300
FEB 28	648.0	11,800	-4,000
MAR 31	632.5	6,170	-5,630
APR 30	629.1	5,080	-1,090
MAY 31	675.2	24,900	+19,820
JUN 30	685.0	31,500e	+6,600e
JUL 31	685.2	31,600e	+100e
AUG 31	684.2	30,900	-700
SEP 30	684.9	31,400	+500
		CAL YR 2004	+700
		WTR YR 2005	+400

e Estimated

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 crest-stage gage. Concrete control until June 15, 2005 when gage was moved 70 feet downstream. Elevation of gage is 40 ft above sea level, from topographic map. Prior to May 20, 2005 at datum 5.00 ft. lower.

REMARKS.--Records fair except for estimated daily discharge, which is poor. 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 2005 water year was 10.6 ft3/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, site and datumn in use; no flow at times most years.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 260 ft^3/s, October 19, gage height, *3.00 ft, but may have been higher during period of missing record; no flow May 20 to June 1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	199	78	83	82	97	71	99	93	e180	227	213	168
2	201	77	84	84	94	85	94	80	e200	220	213	193
3	201	90	76	72	103	83	80	100	e190	216	206	198
4	205	87	80	73	91	87	60	106	e210	218	210	198
5	193	91	83	85	80	95	55	109	e200	225	205	194
6	207	92	67	81	88	89	54	107	e200	222	196	204
7	207	81	60	80	81	100	50	99	e210	222	201	192
8	211	66	81	69	74	100	47	95	e200	222	201	202
9	207	74	87	75	68	97	45	109	e200	214	211	204
10	206	72	83	98	72	87	47	105	e210	220	211	187
11	212	65	81	96	67	79	50	76	e210	223	212	189
12	209	63	71	90	68	71	49	78	e200	215	213	203
13	213	59	76	110	70	70	48	101	e220	174	188	196
14	214	60	86	131	73	88	47	94	e210	210	204	193
15	176	66	80	80	69	94	45	83	e210	227	206	193
16	205	72	85	78	87	88	47	106	204	219	211	188
17	202	81	93	72	92	106	48	103	170	216	216	182
18	215	71	91	90	79	114	47	102	215	224	218	175
19	164	61	83	103	67	107	49	100	194	217	216	190
20	223	66	83	80	73	109	54	22	192	218	210	190
21	209	64	75	75	81	93	47	0.00	212	185	216	191
22	218	54	75	74	68	94	47	0.00	208	218	219	192
23	200	64	75	71	65	89	46	0.00	218	195	208	185
24	183	56	73	78	76	91	44	0.00	218	193	175	181
25	133	57	73	72	77	89	50	0.00	212	222	224	180
26	67	60	104	92	73	87	50	0.00	210	219	216	188
27	67	59	91	72	82	86	50	0.00	209	213	201	196
28	70	61	91	76	83	86	70	0.00	218	211	194	192
29	67	77	94	68	---	96	84	0.00	222	211	203	189
30	61	83	96	68	---	108	96	0.00	224	208	222	190
31	68	---	91	81	---	102	---	0.00	---	210	219	---
TOTAL	5413	2107	2551	2556	2198	2841	1699	1868.00	6176	6634	6458	5723
MEAN	175	70.2	82.3	82.5	78.5	91.6	56.6	60.3	206	214	208	191
MAX	223	92	104	131	103	114	99	109	224	227	224	204
MIN	61	54	60	68	65	70	44	0.00	170	174	175	168
AC-FT	10740	4180	5060	5070	4360	5640	3370	3710	12250	13160	12810	11350

CAL YR 2004 TOTAL 46081 MEAN 126 MAX 228 MIN 42 AC-FT 91400
WTR YR 2005 TOTAL 46224 MEAN 127 MAX 227 MIN 0.00 AC-FT 91690

* At prior datum 5 ft lower (WY 86-05) at site and datum then in use.
e Estimated

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.

REVISED RECORDS.--WDR AK-00-1: 1999.

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 October 1-5, June 12 to August 15, August 21-26, September 5-14, 16-18, and 23-29.

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, 1,570 ft^3/s, September 24, maximum gage height, 9.15 ft, September 24; minimum daily discharge, 2.4 ft^3/s, February 1, 27, 28, and March 1 - 6.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e280	3.9	5.0	3.4	2.4	2.4	2.7	16	4.2	e190	e280	4.0
2	e400	3.8	6.1	3.4	2.5	2.4	e2.7	13	5.9	e190	e400	4.4
3	e480	6.7	5.0	3.6	2.5	2.4	2.6	11	5.7	e400	e240	4.1
4	e420	4.6	4.1	3.9	2.7	2.4	2.7	11	5.9	e190	e150	7.8
5	100	3.9	3.8	3.5	2.7	2.4	2.7	12	5.4	e140	97	65
6	17	3.8	3.8	3.4	2.7	2.4	2.7	11	4.7	e160	54	e650
7	5.9	3.7	3.4	3.4	2.6	2.5	2.8	12	4.5	e220	31	e600
8	4.8	3.7	3.2	3.7	2.7	2.8	2.8	13	4.1	e160	31	e150
9	4.5	3.6	3.2	3.7	2.8	3.4	2.7	13	3.9	e170	39	43
10	4.6	4.0	3.1	3.5	2.7	3.8	2.7	14	3.8	e190	38	e750
11	4.6	4.4	3.1	e3.0	2.6	8.8	2.8	14	4.3	e130	52	e220
12	7.8	4.1	3.1	e2.5	2.6	5.2	3.2	16	e160	117	68	e170
13	9.4	4.3	3.1	e3.0	2.6	4.1	3.3	15	e180	132	62	e220
14	13	3.9	3.1	2.9	2.6	3.5	3.3	16	e220	84	37	33
15	10	3.8	3.3	2.8	2.7	3.2	3.2	14	e300	90	15	5.4
16	6.4	3.7	3.3	2.8	2.6	3.0	3.4	12	e320	93	3.9	88
17	4.7	3.5	3.4	2.8	2.5	2.8	3.4	14	e460	65	3.2	133
18	4.2	3.6	4.5	2.8	2.5	2.7	3.2	14	e500	36	3.2	56
19	4.0	3.7	4.9	2.7	2.5	2.7	3.3	15	e400	64	3.2	7.0
20	3.9	3.6	3.8	2.7	2.5	2.7	4.1	12	e340	58	3.3	4.7
21	3.8	3.6	3.7	2.7	2.5	2.7	4.2	14	e220	70	29	4.5
22	3.7	3.6	3.8	2.6	2.5	2.6	10	12	e300	25	e120	4.8
23	3.6	3.6	5.9	2.6	2.5	2.7	9.2	11	e160	13	e420	7.2
24	3.6	3.6	5.1	2.6	2.5	2.6	12	10	e160	36	e380	e900
25	3.6	3.6	4.0	2.6	2.5	2.5	15	8.2	e190	33	e90	e300
26	3.8	3.5	3.8	2.6	2.5	2.6	14	7.4	e190	114	13	42
27	5.4	3.5	3.7	2.6	2.4	2.7	17	6.3	e280	83	4.1	11
28	5.8	11	3.7	2.5	2.4	2.7	36	5.8	e320	37	3.9	e220
29	5.2	5.4	3.5	2.5	---	2.6	18	5.7	e320	28	3.8	58
30	4.7	4.2	3.5	2.5	---	2.7	15	5.0	e300	16	3.7	5.2
31	4.2	---	3.4	2.5	---	2.7	---	4.3	---	e170	3.8	---
TOTAL	1832.2	125.9	120.4	91.8	71.8	94.7	210.7	357.7	5372.4	3504	2682.1	4768.1
MEAN	59.1	4.20	3.88	2.96	2.56	3.05	7.02	11.5	179	113	86.5	159
MAX	480	11	6.1	3.9	2.8	8.8	36	16	500	400	420	900
MIN	3.6	3.5	3.1	2.5	2.4	2.4	2.6	4.3	3.8	13	3.2	4.0
AC-FT	3630	250	239	182	142	188	418	709	10660	6950	5320	9460

CAL YR 2004 TOTAL 3599.6 MEAN 9.83 MAX 480 MIN 3.0 AC-FT 7140
WTR YR 2005 TOTAL 19231.8 MEAN 52.7 MAX 900 MIN 2.4 AC-FT 38150

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 2005 water year was 10.6 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e509	90	96	95	109	83	107	112	e187	e419	e520	199
2	e631	88	98	97	106	97	e102	95	e209	e412	e640	225
3	e711	104	88	85	115	95	88	115	e198	e618	e473	230
4	e655	99	92	86	103	99	68	121	e219	e410	e387	233
5	323	103	95	101	92	105	65	125	e208	e367	329	283
6	254	104	79	96	100	99	62	122	e207	e384	277	e878
7	222	92	71	93	93	112	58	115	e217	e444	259	e820
8	223	77	92	83	86	112	55	112	e205	e384	259	e380
9	219	85	98	89	80	111	53	125	e205	e386	276	275
10	219	84	94	111	84	99	55	121	e216	e412	275	e965
11	225	77	92	e108	79	95	58	91	e216	e355	290	e437
12	225	75	82	e102	80	84	57	95	e361	334	307	e401
13	230	71	87	e123	82	82	56	117	e401	308	276	e444
14	235	72	97	144	85	99	56	111	e431	296	267	254
15	194	77	91	93	81	105	54	98	e511	319	247	226
16	219	83	96	91	99	98	56	119	e525	314	241	304
17	215	92	104	85	104	116	58	118	e631	283	246	343
18	227	83	104	103	91	124	56	117	e716	262	248	259
19	176	73	96	115	79	116	59	116	e595	283	246	225
20	235	78	95	92	85	118	64	35	e534	278	240	223
21	221	76	87	87	93	103	59	15	e433	257	272	223
22	230	66	86	87	80	103	63	13	e510	245	e366	224
23	212	76	89	84	77	98	61	13	e379	230	e655	220
24	195	68	86	90	88	99	62	13	e379	251	e582	e1110
25	145	69	85	84	89	98	71	11	e403	278	e341	e508
26	79	72	115	105	85	96	69	11	e402	357	256	258
27	81	71	103	84	94	95	72	10	e491	325	233	235
28	84	80	102	88	95	95	109	9.6	e540	279	225	e440
29	80	91	106	80	---	104	105	9.4	e544	270	234	275
30	74	95	107	80	---	116	114	8.7	e526	255	254	223
31	80	---	102	89	---	110	---	6.0	---	e408	250	---
TOTAL	7628	2471	2915	2950	2534	3166	2072	2299.7	11599	10423	9971	11320
MEAN	246	82.4	94.0	95.2	90.5	102	69.1	74.2	387	336	322	377
MAX	711	104	115	144	115	124	114	125	716	618	655	1110
MIN	74	66	71	80	77	82	53	6.0	187	230	225	199
AC-FT	15130	4900	5780	5850	5030	6280	4110	4560	23010	20670	19780	22450

AJUSTED FOR CHANGE IN STORAGE IN SOLOMON LAKE

MEAN	194	31.9	33.8	8.9	18.5	10.6	50.8	396	498	338	310	386
AC-FT	11930	1900	2080	550	1030	650	3020	24380	29610	20770	19080	22950
CFSM	9.85	1.62	1.72	0.45	0.94	0.54	2.58	20.13	25.26	17.15	15.75	19.58
IN	11.37	1.81	1.98	0.52	0.98	0.62	2.88	23.23	28.21	19.79	18.18	21.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2005, BY WATER YEAR (WY)#

MEAN	203	107	98.0	92.7	89.2	84.5	75.5	149	196	270	298	326
MAX	435	228	180	138	130	138	132	213	387	410	462	501
(WY)	2003	2003	2003	1995	1987	2003	2003	1993	2005	2001	1993	1989
MIN	97.2	77.1	69.0	63.0	58.9	5.08	26.2	74.2	145	177	152	152
(WY)	1997	1993	2002	2003	2002	1991	1991	2005	1988	1991	1996	1996

\# See Period of Record; partial years were used in monthly statistics and breaks in record, and Remarks
e Estimated

15226000 SOLOMON GULCH NEAR VALDEZ—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1986 - 2005#	
ANNUAL TOTAL	53721		69348.7			
ANNUAL MEAN	147		190		167	
ANNUAL MEAN	*147		*190		*167	
HIGHEST ANNUAL MEAN					197	1990
LOWEST ANNUAL MEAN					125	1996
HIGHEST DAILY MEAN	711	Oct 3	e1110	Sep 24	2270	Sep 24 1989
LOWEST DAILY MEAN	a54	Jan 9	6.0	May 31	1.0	Apr 12 1989
ANNUAL SEVEN-DAY MINIMUM	62	Jan 7	9.4	May 25	2.3	Mar 24 1991
ANNUAL RUNOFF (AC-FT)	106600		137400		120800	
ANNUAL RUNOFF (AC-FT)	*107200		*138000		*121000	
ANNUAL RUNOFF (CFSM)	*7.48		*9.63		*8.48	
ANNUAL RUNOFF (IN)	*102.15		*131.45		*115.12	
10 PERCENT EXCEEDS	242		409		287	
50 PERCENT EXCEEDS	98		107		122	
90 PERCENT EXCEEDS	68		69		68	

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
MAXIMUM PEAK FLOW	b2420	Sep 4 1951
MAXIMUM 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; partial years were used in monthly statistics and breaks in 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 Jan. 9 and Feb. 8
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
e Estimated

15236900 WOLVERINE CREEK NEAR LAWING

LOCATION.--Lat 60°22'14", long 148°53'48", in NE¼ NE¼ sec. 10, T.3 N., R.3 E. (Seward B-6 quad), Kenai Peninsula Borough, Hydrologic Unit 19020202, on the left bank, approximately 0.1 mi downstream from terminus of Wolverine Glacier, 2.0 mi upstream from mouth, 16 mi east of Lawing, Alaska.

DRAINAGE AREA.--9.51 mi^2.

PERIOD OF RECORD.--October 1966 to September 1978, October 1980 to September 1981, May 1997 to September 1997, October 2000 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,200 ft above sea level, from topographic map.

REMARKS.--Records are poor due to large fluctuations from ice melt and alternate damming and storage releases during the melt season. Stream flow is modified by runoff from the melting of Wolverine Glacier, which covers 6.8 mi2, more than 70% of the drainage basin. Precipitation gage and air temperature recorded at station is available from computer files at the Alaska Science Center, Water Resources Office. GOES satellite telemetry at station transmits every 4 hours. At 3,250 feet of elevation, there is a weather station recording air temperature, wind speed, and precipitation. In addition to the weather station, there are also three snow and ice balance measurement sites located in the basin. Combined snow, ice, and water balance data of the basin are published in other reports of the Geological Survey.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	e5.0	1.8	e1.0	e1.0	e1.0	e1.0	41	121	326	266	233
2	608	e4.0	1.6	e1.0	e1.0	e1.0	e1.0	36	108	321	305	194
3	461	e4.0	e1.5	e1.0	e1.0	e1.0	e1.0	35	113	307	749	201
4	333	e3.5	e1.0	e1.0	e1.0	e1.0	e1.0	32	177	292	755	343
5	225	e3.0	e1.0	e1.0	e1.0	e1.0	e1.5	30	186	350	573	325
6	140	e2.5	e1.0	e1.0	e1.0	e1.0	e1.5	30	178	396	466	374
7	108	e2.5	e1.0	e1.0	e1.0	e1.0	e1.5	32	192	340	491	305
8	93	e2.0	e1.0	e1.0	e1.0	e1.0	e1.5	42	241	356	464	292
9	76	e2.0	e1.0	e1.0	e1.0	e1.0	e1.5	70	367	365	445	312
10	62	e2.0	e1.0	e1.0	e1.0	e1.0	e1.5	70	363	299	538	357
11	53	e2.0	e1.0	e1.0	e1.0	e1.0	e1.5	70	309	288	578	247
12	116	e2.0	e1.0	e1.0	e1.0	e1.0	e1.5	190	296	289	552	286
13	77	e2.0	e1.0	e1.0	e1.0	e1.0	e1.5	341	294	446	469	257
14	85	e2.0	e1.0	e1.0	e1.0	e1.0	e2.0	413	300	544	460	231
15	47	e2.0	e1.0	e1.0	e1.0	e1.0	e2.0	247	318	540	354	179
16	33	e2.0	e1.0	e1.0	e1.0	e1.0	e2.0	151	351	413	336	511
17	22	e2.0	e2.0	e1.0	e1.0	e1.0	e2.0	131	420	438	407	529
18	15	e2.0	e5.0	e1.0	e1.0	e1.0	e2.0	129	366	399	462	422
19	13	e2.0	e2.0	e1.0	e1.0	e1.0	e2.0	124	348	441	511	354
20	11	e2.0	e1.0	e1.0	e1.0	e1.0	e2.0	116	302	422	366	295
21	9.4	e2.0	e1.0	e1.0	e1.0	e1.0	e2.0	121	289	392	293	209
22	8.4	2.0	e1.0	e1.0	e1.0	e1.0	e2.0	154	243	346	276	243
23	7.6	1.9	e1.0	e1.0	e1.0	e1.0	e4.0	160	246	325	430	306
24	7.2	1.9	e1.0	e1.0	e1.0	e1.0	e8.0	137	280	342	324	356
25	6.7	1.9	e1.0	e1.0	e1.0	e1.0	e12	129	280	589	272	211
26	6.5	1.7	e1.0	e1.0	e1.0	e1.0	23	220	311	439	268	167
27	6.3	1.7	e1.0	e1.0	e1.0	e1.0	153	336	319	575	317	397
28	6.7	7.4	e1.0	e1.0	e1.0	e1.0	87	361	373	372	242	258
29	6.0	2.4	e1.0	e1.0	---	e1.0	80	295	379	278	225	230
30	5.2	1.8	e1.0	e1.0	---	e1.0	48	193	358	240	219	168
31	e5.0	---	e1.0	e1.0	---	e1.0	---	147	---	317	246	---
TOTAL	2789.0	75.2	38.9	31.0	28.0	31.0	450.5	4583	8428	11787	12659	8792
MEAN	90.0	2.51	1.25	1.00	1.00	1.00	15.0	148	281	380	408	293
MAX	608	7.4	5.0	1.0	1.0	1.0	153	413	420	589	755	529
MIN	5.0	1.7	1.0	1.0	1.0	1.0	1.0	30	108	240	219	167
AC-FT	5530	149	77	61	56	61	894	9090	16720	23380	25110	17440
CFSM	9.46	0.26	0.13	0.11	0.11	0.11	1.58	15.5	29.5	40.0	42.9	30.8
IN.	10.91	0.29	0.15	0.12	0.11	0.12	1.76	17.93	32.97	46.11	49.52	34.39

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2005, BY WATER YEAR (WY)#

MEAN	61.1	12.0	3.43	1.52	1.19	1.04	2.34	33.9	156	309	355	198
MAX	330	100	20.2	2.71	2.00	2.45	15.0	148	281	438	494	351
(WY)	2004	2003	2003	1970	1970	2003	2005	2005	2005	2004	1981	1974
MIN	13.1	2.01	0.51	0.39	0.00	0.00	0.00	0.61	31.1	146	176	80.0
(WY)	1975	2002	2001	2001	2001	2001	2001	1971	1971	1997	1997	1970

\# See Period of Record; partial year was used in monthly statistics and breaks in record
e Estimated

15236900 WOLVERINE CREEK NEAR LAWING—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1967 - 2005#	
ANNUAL TOTAL	45938.1		49692.6			
ANNUAL MEAN	126		136		96.8	
HIGHEST ANNUAL MEAN					146	2004
LOWEST ANNUAL MEAN					66.6	1970
HIGHEST DAILY MEAN	986	Jul 22	755	Aug 4	1930	Aug 28 2001
LOWEST DAILY MEAN	a1.0	Dec 4	b1.0	Dec 4	c0.00	Dec 2 2000
ANNUAL SEVEN-DAY MINIMUM	1.0	Dec 4	1.0	Dec 4	0.00	Dec 2 2000
MAXIMUM PEAK FLOW			1630	Oct 2	d4160	Aug 28 2001
MAXIMUM PEAK STAGE			3.90	Oct 2	f6.28	Aug 21 1981
MAXIMUM PEAK STAGE			g5.61	Apr 24		
ANNUAL RUNOFF (AC-FT)	91120		98570		70120	
ANNUAL RUNOFF (CFSM)	13.2		14.3		10.2	
ANNUAL RUNOFF (INCHES)	179.69		194.38		138.28	
10 PERCENT EXCEEDS	407		394		326	
50 PERCENT EXCEEDS	5.1		7.6		6.0	
90 PERCENT EXCEEDS	1.8		1.0		1.0	

\# See Period of Record; partial year was used in monthly statistics and breaks in record
a Dec. 4 to Dec. 16 and Dec. 20 to Dec. 31
b Dec. 4 to Dec. 16 and Dec. 20 to Apr. 4
c No flow most days during winter
d From rating curve extended above 1,290 ft^3/s
f From floodmarks, date approximate; flow over dense snow
g Caused by ice-jam, no corresponding discharge

15237730 GROUSE CREEK AT GROUSE LAKE OUTLET NEAR SEWARD

LOCATION.--Lat 60°11'54", long 149°22'24", in NE¼ NE¼ NW¼ sec. 12, 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 current year.

GAGE.--Water stage recorder and crest-stage gage. Elevation of gage is 250 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.

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge of 100 ft^3/s and water year maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height(ft)	Date	Time	Discharge (ft^3/s)	Gage Height(ft)
Nov. 28	0945	103	6.16	Apr. 22	1030	*174	*6.68

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14	8.9	44	13	7.3	e5.8	11	59	17	6.4	5.9	3.6
2	21	8.4	41	12	7.2	e5.7	10	53	16	6.4	6.9	3.4
3	62	9.6	35	18	7.2	e5.5	10	48	15	6.3	6.3	3.3
4	67	8.9	30	37	6.9	e5.4	10	46	15	6.2	6.0	3.6
5	46	7.8	23	31	6.5	e5.5	10	44	15	6.0	5.6	4.1
6	35	7.3	22	23	e6.4	e6.5	14	44	16	5.7	5.3	4.8
7	25	8.4	20	19	e6.3	7.4	15	43	14	5.8	5.3	4.7
8	18	8.4	18	18	e6.2	8.8	14	41	14	5.8	5.1	4.7
9	16	8.4	16	16	e6.2	12	14	42	14	5.5	4.6	4.5
10	15	49	15	14	e6.2	21	14	42	14	5.6	4.5	6.1
11	13	61	15	12	e6.0	39	14	41	12	5.8	4.3	5.3
12	18	40	14	11	e5.9	38	14	45	12	5.4	4.2	5.2
13	21	32	15	13	e5.9	49	14	46	11	5.4	4.0	5.0
14	27	25	14	13	e7.5	46	14	48	11	5.2	4.0	4.7
15	20	20	13	13	9.4	37	14	41	9.8	5.0	3.9	4.5
16	18	17	15	12	8.3	32	14	37	9.2	5.3	3.6	5.5
17	16	16	15	11	e7.5	26	14	34	8.8	5.4	3.6	10
18	15	15	19	9.6	e7.0	20	15	33	9.3	5.2	3.6	8.6
19	14	18	19	9.9	e6.5	18	16	32	9.5	5.6	3.5	7.3
20	13	19	18	11	e6.5	17	38	32	8.6	5.4	3.5	6.7
21	12	17	16	11	e6.5	16	46	32	8.3	5.7	3.8	6.0
22	11	16	21	12	e6.5	15	138	30	8.0	5.5	3.8	6.0
23	11	16	25	13	e6.5	14	117	27	8.5	5.2	4.4	7.1
24	11	17	20	11	e6.5	13	69	28	7.7	5.1	4.6	13
25	11	17	17	11	e6.5	13	57	27	6.7	6.2	4.4	11
26	11	16	17	10	e6.4	13	54	22	7.5	6.6	4.1	9.3
27	11	20	18	9.1	e6.2	12	56	28	6.5	6.3	3.9	12
28	11	82	16	8.4	e6.0	12	62	26	6.7	6.1	3.8	15
29	11	53	13	9.3	---	11	68	23	6.5	5.4	3.6	12
30	10	41	12	9.8	---	11	66	20	6.4	5.2	3.5	11
31	9.4	---	14	8.8	---	11	---	18	---	5.6	3.3	---
TOTAL	613.4	683.1	610	429.9	188.0	546.6	1022	1132	324.0	176.3	136.9	208.0
MEAN	19.8	22.8	19.7	13.9	6.71	17.6	34.1	36.5	10.8	5.69	4.42	6.93
MAX	67	82	44	37	9.4	49	138	59	17	6.6	6.9	15
MIN	9.4	7.3	12	8.4	5.9	5.4	10	18	6.4	5.0	3.3	3.3
AC-FT	1220	1350	1210	853	373	1080	2030	2250	643	350	272	413
CFSM	3.18	3.66	3.16	2.23	1.08	2.83	5.48	5.87	1.74	0.91	0.71	1.11
IN.	3.67	4.09	3.65	2.57	1.12	3.27	6.11	6.77	1.94	1.05	0.82	1.24

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#

MEAN	26.7	27.8	18.8	16.7	12.8	9.92	20.4	51.5	34.7	10.4	7.63	15.4
MAX	60.8	83.3	39.7	58.0	45.0	17.6	38.6	81.3	70.7	19.2	14.3	35.3
(WY)	2003	2003	2003	2001	2003	2005	1998	2004	1998	1998	2001	1997
MIN	11.8	7.41	8.83	5.23	3.34	2.69	5.81	29.9	9.55	5.69	4.42	6.66
(WY)	1998	2002	2004	1998	1999	1999	2002	2003	2003	2005	2005	2000

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

15237730 GROUSE CREEK AT GROUSE LAKE OUTLET NEAR SEWARD—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005#	
ANNUAL TOTAL	7664.9		6070.2			
ANNUAL MEAN	20.9		16.6		21.1	
HIGHEST ANNUAL MEAN					27.3	2001
LOWEST ANNUAL MEAN					15.4	2002
HIGHEST DAILY MEAN	114	May 6	138	Apr 22	326	Nov 23 2002
LOWEST DAILY MEAN	5.4	Jan 30	a3.3	Aug 31	b2.1	Mar 9 1999
ANNUAL SEVEN-DAY MINIMUM	5.6	Feb 1	3.5	Aug 29	2.2	Mar 4 1999
MAXIMUM PEAK FLOW			174	Apr 22	478	Feb 5 2003
MAXIMUM PEAK STAGE			6.68	Apr 22	c8.14	Feb 5 2003
INSTANTANEOUS LOW FLOW					d1.5	Apr 7 1999
ANNUAL RUNOFF (AC-FT)	15200		12040		15320	
ANNUAL RUNOFF (CFSM)	3.37		2.67		3.40	
ANNUAL RUNOFF (INCHES)	45.84		36.30		46.20	
10 PERCENT EXCEEDS	52		41		52	
50 PERCENT EXCEEDS	11		11		11	
90 PERCENT EXCEEDS	6.4		5.1		5.5	

\# See Period of Record, partial year used in monthly statistics
a Aug. 31 and Sep. 3
b Mar. 9 and 10, 1999
c From crest-stage gage
d From temporary blockage of channel upstream from gage

15238600 SPRUCE CREEK NEAR SEWARD

LOCATION.--Lat 60°04'10", long 149°27'08", in $SW^1/_4$ $SE^1/_4$ 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)
Oct. 3	2200	*1200	*6.37

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	83	23	71	15	9.6	5.2	3.4	95	164	176	119	48
2	208	20	52	15	e9.0	4.8	3.3	85	149	158	237	41
3	762	26	39	46	e8.5	4.5	2.8	74	156	166	180	54
4	665	22	32	102	e8.0	4.1	2.6	71	257	155	146	120
5	269	18	28	47	e8.0	4.6	2.6	74	304	170	116	147
6	154	17	27	31	7.8	4.8	4.1	113	237	200	101	285
7	96	17	26	25	6.5	4.7	5.0	90	205	174	95	137
8	73	18	24	21	6.4	9.1	4.9	87	224	166	96	94
9	89	39	21	19	6.7	15	5.1	105	226	175	93	138
10	84	377	19	17	6.4	21	5.4	122	228	152	91	196
11	83	171	18	15	6.0	36	5.5	128	212	143	91	104
12	114	94	18	13	5.6	33	5.7	165	184	159	87	105
13	189	72	21	13	5.4	42	5.8	196	178	170	80	83
14	185	55	22	13	13	27	6.1	212	187	157	73	71
15	105	44	19	13	14	19	6.7	166	218	143	63	102
16	84	37	29	12	9.4	15	7.1	138	252	224	58	210
17	66	33	47	12	8.6	14	7.5	125	314	180	71	166
18	54	33	60	11	7.9	12	8.3	140	311	136	71	113
19	54	43	46	11	7.4	11	9.8	160	267	149	69	88
20	47	45	31	10	6.9	10	52	165	236	120	62	75
21	41	39	27	11	7.6	9.2	62	164	218	126	64	62
22	36	39	36	15	7.2	8.5	193	169	188	95	54	75
23	36	38	43	21	7.4	7.8	159	182	151	80	153	107
24	35	41	29	18	7.3	7.2	74	175	172	80	102	171
25	32	37	24	15	7.2	6.6	65	157	180	229	74	94
26	38	29	22	14	6.9	6.1	70	171	189	180	68	74
27	39	73	21	13	6.3	5.5	75	291	201	136	64	131
28	44	219	19	12	5.7	5.1	108	285	215	101	55	199
29	36	77	17	11	---	4.6	130	263	224	76	50	119
30	31	55	16	10	---	4.3	113	196	192	64	47	86
31	28	---	16	10	---	3.9	---	159	---	66	49	---
TOTAL	3860	1851	920	611	216.7	365.6	1202.7	4723	6439	4506	2779	3495
MEAN	125	61.7	29.7	19.7	7.74	11.8	40.1	152	215	145	89.6	116
MAX	762	377	71	102	14	42	193	291	314	229	237	285
MIN	28	17	16	10	5.4	3.9	2.6	71	149	64	47	41
AC-FT	7660	3670	1820	1210	430	725	2390	9370	12770	8940	5510	6930
CFSM	13.4	6.66	3.20	2.13	0.84	1.27	4.33	16.5	23.2	15.7	9.68	12.6
IN.	15.51	7.44	3.70	2.45	0.87	1.47	4.83	18.97	25.87	18.10	11.16	14.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2005, BY WATER YEAR (WY)#

MEAN	96.3	44.9	19.2	11.4	11.1	4.35	13.7	79.6	203	186	143	161
MAX	333	249	89.0	46.1	53.1	15.3	40.1	163	318	371	323	372
(WY)	1970	2003	2003	2001	2003	1970	2005	2004	2001	1977	1977	1995
MIN	17.0	9.40	3.52	0.65	0.00	0.00	0.12	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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1967 - 2005#	
ANNUAL TOTAL	29790.47		30969.0			
ANNUAL MEAN	81.4		84.8		80.9	
HIGHEST ANNUAL MEAN					123	1977
LOWEST ANNUAL MEAN					50.6	1996
HIGHEST DAILY MEAN	814	Jun 17	762	Oct 3	1650	Oct 11 1969
LOWEST DAILY MEAN	0.02	Apr 1	a2.6	Apr 4	b0.00	Mar 1 1969
ANNUAL SEVEN-DAY MINIMUM	0.06	Mar 26	3.2	Mar 31	0.00	Mar 1 1969
MAXIMUM PEAK FLOW			1200	Oct 3	c13600	Oct 11 1986
MAXIMUM PEAK STAGE			6.37	Oct 3	d13.96	Oct 11 1986
INSTANTANEOUS LOW FLOW			f2.4	Apr 4	0.00	Mar 1 1969
ANNUAL RUNOFF (AC-FT)	59090		61430		58630	
ANNUAL RUNOFF (CFSM)	8.79		9.16		8.74	
ANNUAL RUNOFF (INCHES)	119.68		124.41		118.75	
10 PERCENT EXCEEDS	209		196		207	
50 PERCENT EXCEEDS	38		55		35	
90 PERCENT EXCEEDS	3.3		6.7		2.0	

\# See Period of Record; partial year used in monthly statistics
a Apr. 4-5
b No flow many days in water years 1969, 1971-76, 1992, 1996, 1999, and 2002
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 Apr. 4-5

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 at station. GOES satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	1.3	e0.80	e0.00	e0.00	0.00	0.00	e0.00	5.2	7.4	3.4	2.3
2	5.3	1.1	e0.50	e0.00	e0.00	0.00	0.00	e0.00	4.4	9.4	3.0	1.6
3	22	1.1	e0.30	e0.40	e0.00	0.00	0.00	e0.00	7.0	11	2.9	5.6
4	27	0.97	e0.20	e4.0	0.00	0.00	0.00	e0.00	13	7.0	3.0	9.9
5	12	0.87	e0.20	e2.0	0.00	0.00	0.00	e0.00	16	9.8	6.0	4.9
6	2.0	0.75	e0.10	1.1	0.00	0.00	0.00	e0.00	8.3	11	7.5	9.6
7	1.6	0.82	e0.10	0.83	0.00	0.00	0.00	e0.00	9.6	11	6.7	2.3
8	1.4	0.70	e0.10	0.75	0.00	0.00	0.00	e0.00	21	12	7.6	2.5
9	2.4	1.2	e0.10	0.68	0.00	0.00	0.00	e0.00	22	11	8.8	11
10	1.7	e10	e0.00	e0.50	0.00	0.00	0.00	e0.00	12	13	7.0	5.3
11	6.9	e8.0	e0.00	e0.40	0.00	0.00	0.00	e0.00	10	8.2	8.9	3.6
12	13	4.4	0.00	e0.30	0.00	0.00	0.00	e0.00	9.1	8.7	9.3	4.3
13	12	1.9	0.00	e0.20	0.00	0.00	0.00	e0.00	7.4	6.8	8.0	2.8
14	8.3	1.4	0.00	e0.20	0.00	0.00	0.00	e0.00	10	7.5	6.1	1.9
15	1.9	1.2	0.00	e0.10	0.00	0.00	0.00	e0.00	12	9.7	4.7	12
16	1.6	1.1	0.00	e0.10	0.00	0.00	0.00	e0.00	13	17	3.2	19
17	1.5	0.96	e0.10	e0.10	0.00	0.00	0.00	e0.00	15	8.6	9.9	3.3
18	1.3	e0.90	e4.0	e0.00	0.00	0.00	0.00	e0.00	19	9.4	5.2	2.4
19	1.4	e0.90	e2.0	e0.00	0.00	e0.00	0.00	e0.10	5.8	4.5	5.7	1.9
20	1.3	0.84	e1.0	e0.00	0.00	e0.00	0.00	e0.20	9.0	9.3	3.3	1.7
21	1.3	0.81	e0.50	e0.10	0.00	e0.00	0.00	e0.30	9.9	7.7	3.7	1.6
22	4.1	0.79	e0.20	e0.20	0.00	e0.00	e0.00	e0.50	5.1	8.3	3.6	6.3
23	1.2	e0.70	e0.50	e0.10	0.00	e0.00	e0.00	e0.70	6.0	8.9	14	7.9
24	1.2	e0.70	e0.30	e0.10	0.00	0.00	e0.00	0.71	7.4	10	6.4	7.8
25	1.6	0.71	e0.20	e0.00	0.00	0.00	e0.00	4.4	6.2	18	2.8	1.9
26	1.2	0.60	e0.10	e0.00	0.00	0.00	e0.00	9.3	9.5	6.9	4.5	2.0
27	1.3	0.73	e0.10	e0.00	0.00	0.00	e0.00	22	11	4.7	6.4	24
28	1.3	16	e0.10	e0.00	0.00	0.00	e0.00	23	10	5.0	2.4	9.0
29	1.5	7.4	e0.10	e0.00	---	0.00	e0.00	21	9.9	3.3	2.1	1.8
30	1.2	1.3	e0.00	e0.00	---	0.00	e0.00	11	9.6	3.1	2.2	1.2
31	1.2	---	e0.00	e0.00	---	0.00	---	6.7	---	4.6	2.6	---
TOTAL	142.8	70.15	11.60	12.16	0.00	0.00	0.00	99.91	313.4	272.8	170.9	171.4
MEAN	4.61	2.34	0.37	0.39	0.00	0.00	0.00	3.22	10.4	8.80	5.51	5.71
MAX	27	16	4.0	4.0	0.00	0.00	0.00	23	22	18	14	24
MIN	1.1	0.60	0.00	0.00	0.00	0.00	0.00	0.00	4.4	3.1	2.1	1.2
AC-FT	283	139	23	24	0.00	0.00	0.00	198	622	541	339	340

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)#

MEAN	7.60	3.89	0.27	0.06	0.17	0.01	0.01	1.41	26.2	34.3	17.6	12.0
MAX	62.1	36.7	2.15	0.39	1.56	0.10	0.12	9.96	209	272	53.1	41.1
(WY)	2003	2003	2003	2005	1994	2003	2003	2003	1999	1999	1998	2002
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.06	2.96	0.97	1.72
(WY)	1992	1992	1991	1991	1991	1991	1992	1998	1992	1991	1991	1991

\# See Period of Record; partial year was used in monthly statistics, 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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005#	
ANNUAL TOTAL	858.21		1265.12			
ANNUAL MEAN	2.34		3.47		8.68	
HIGHEST ANNUAL MEAN					a45.6	1999
LOWEST ANNUAL MEAN					1.09	1991
HIGHEST DAILY MEAN	30	Jun 17	27	Oct 4	389	Oct 23 2002
LOWEST DAILY MEAN	b0.00	Jan 1	c0.00	Dec 10	d0.00	Nov 3 1990
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Dec 10	0.00	Nov 3 1990
MAXIMUM PEAK FLOW			f33	Oct 4	565	Oct 23 2002
MAXIMUM PEAK STAGE			2.19	Oct 4	4.48	Oct 23 2002
ANNUAL RUNOFF (AC-FT)	1700		2510		6290	
10 PERCENT EXCEEDS	8.1		10		15	
50 PERCENT EXCEEDS	0.52		0.90		0.30	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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 STATISTICSWATER 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	g.00	May 6 1987
ANNUAL SEVEN-DAY MINIMUM	.00	May 6 1987
INSTANTANEOUS PEAK FLOW	h1630	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; partial year was used in monthly statistics, and Remarks. Not adjusted to account for changes in drainage area.
a Diversion dam failed June 17, 1999; repaired Sept. 25, 1999
b From Jan. 1 to May 28, Dec. 10 - 16, and Dec. 30, 31
c From Dec. 10 - 16, Dec. 30 to Jan. 2, and Jan. 18 to May 18
d No flow most days during winter
f Oct. 4 and Sept. 27
g No flow many days each year since 1987 during winter through June. See Period of Record for remark on low-flow records
h 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 and crest-stage gage. 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 CURRENT YEAR.-- Peak discharges greater than base discharge of 50 ft^3/s and maximums (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 3	1930	*91	*6.76

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.0	0.18	e0.30	0.00	e0.00	e0.00	e0.00	2.0	9.7	9.0	2.7	0.72
2	5.6	0.05	e0.10	0.00	e0.00	e0.00	e0.00	1.4	6.8	7.2	2.8	0.45
3	41	e0.04	e0.05	0.25	e0.00	e0.00	e0.00	1.3	5.6	8.3	3.1	0.55
4	54	e0.03	e0.02	1.1	e0.00	e0.00	e0.00	1.2	7.4	7.8	2.8	3.2
5	20	e0.02	0.01	0.38	e0.00	e0.00	e0.00	1.2	10	8.1	2.4	2.3
6	8.0	e0.02	0.00	0.11	e0.00	e0.00	e0.00	2.3	13	7.9	2.2	4.9
7	4.6	e0.01	e0.00	0.01	e0.00	e0.00	e0.00	1.5	16	7.5	2.2	3.0
8	3.1	e0.01	0.00	0.00	e0.00	e0.00	e0.00	1.2	19	8.3	2.2	2.1
9	4.3	e0.05	0.00	0.00	e0.00	e0.02	e0.00	1.6	17	8.1	2.1	2.8
10	3.0	19	0.00	0.00	e0.00	e0.20	e0.00	2.0	17	8.3	2.0	4.3
11	3.3	4.3	0.00	0.00	e0.00	e0.40	e0.00	2.3	14	11	2.0	2.5
12	18	1.5	0.00	0.00	e0.00	e0.60	e0.00	6.4	13	15	1.9	2.3
13	10	1.2	0.00	0.00	e0.00	e0.80	e0.00	9.9	9.9	11	1.8	2.0
14	6.7	0.86	0.00	0.00	e0.00	e0.40	e0.00	13	7.7	7.3	1.6	1.6
15	4.2	0.59	0.00	0.00	e0.00	e0.20	e0.00	13	8.6	5.8	1.5	1.8
16	3.2	0.40	0.00	e0.00	e0.00	e0.10	e0.00	9.1	13	9.3	1.7	8.4
17	2.3	0.23	e0.02	e0.00	e0.00	e0.08	e0.00	6.7	14	6.6	2.1	9.2
18	1.7	0.21	0.61	e0.00	e0.00	e0.06	e0.00	5.2	34	6.2	2.4	4.6
19	1.8	0.33	0.19	e0.00	e0.00	e0.04	e0.01	4.8	15	6.5	1.7	3.6
20	1.4	0.36	0.02	e0.00	e0.00	e0.02	e0.02	5.8	11	5.3	1.3	2.6
21	1.1	0.21	0.00	e0.00	e0.00	e0.00	e0.02	7.2	9.8	6.6	1.9	2.1
22	0.79	0.18	e0.02	e0.02	e0.00	e0.00	e0.04	7.5	10	5.9	1.5	2.0
23	1.0	0.50	1.4	e0.00	e0.00	e0.00	e0.06	7.6	8.1	4.5	2.0	2.6
24	0.93	0.69	0.47	e0.00	e0.00	e0.00	e0.10	8.1	7.6	5.8	1.4	4.1
25	0.62	0.28	0.14	e0.00	e0.00	e0.00	e0.40	8.4	8.1	9.7	0.96	2.5
26	0.66	0.09	0.02	e0.00	e0.00	e0.00	e0.80	8.4	7.8	6.8	0.79	2.1
27	1.2	0.74	0.00	e0.00	e0.00	e0.00	e1.2	21	9.2	5.1	0.78	23
28	0.94	3.3	0.00	e0.00	e0.00	e0.00	1.9	28	8.9	4.5	0.73	14
29	0.68	1.1	0.00	e0.00	---	e0.00	4.0	24	9.4	3.6	1.0	6.1
30	0.53	0.60	0.00	e0.00	---	e0.00	3.1	14	9.2	2.9	1.1	4.0
31	0.34	---	0.00	e0.00	---	e0.00	---	11	---	2.6	0.79	---
TOTAL	210.99	37.08	3.37	1.87	0.00	2.92	11.65	237.1	349.8	222.5	55.45	125.42
MEAN	6.81	1.24	0.11	0.06	0.00	0.09	0.39	7.65	11.7	7.18	1.79	4.18
MAX	54	19	1.4	1.1	0.00	0.80	4.0	28	34	15	3.1	23
MIN	0.34	0.01	0.00	0.00	0.00	0.00	0.00	1.2	5.6	2.6	0.73	0.45
AC-FT	418	74	6.7	3.7	0.00	5.8	23	470	694	441	110	249
CFSM	7.16	1.30	0.11	0.06	0.00	0.10	0.41	8.05	12.3	7.56	1.88	4.40
IN.	8.26	1.45	0.13	0.07	0.00	0.11	0.46	9.28	13.70	8.71	2.17	4.91

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)#

MEAN	4.52	2.07	0.50	0.05	0.21	0.01	0.14	3.47	14.0	10.8	5.12	6.25
MAX	16.6	15.1	4.76	0.22	1.58	0.09	0.67	7.67	23.5	20.1	14.5	16.9
(WY)	2003	2003	2003	2003	2003	2005	1997	1993	1998	2001	2001	1995
MIN	0.21	0.01	0.00	0.00	0.00	0.00	0.00	0.21	5.55	1.83	0.09	0.91
(WY)	1997	2000	1996	1996	1996	1994	1999	1999	1996	1996	1996	1992

\# See Period of Record; partial year was used in monthly statistics, and Remarks.
e Estimated

15238978 BATTLE CREEK DIVERSION ABOVE BRADLEY LAKE NEAR HOMER—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005#	
ANNUAL TOTAL	1362.01		1258.15			
ANNUAL MEAN	3.72		3.45		3.97	
HIGHEST ANNUAL MEAN					5.98	2003
LOWEST ANNUAL MEAN					1.23	1996
HIGHEST DAILY MEAN	54	Oct 4	54	Oct 4	121	Oct 23 2002
LOWEST DAILY MEAN	a0.00	Jan 1	b0.00	Dec 6	c0.00	Jun 3 1992
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Dec 6	0.00	Jan 11 1993
MAXIMUM PEAK FLOW			d91	Oct 3	151	Oct 23 2002
MAXIMUM PEAK STAGE			6.76	Oct 3	7.50	Oct 23 2002
ANNUAL RUNOFF (AC-FT)	2700		2500		2880	
ANNUAL RUNOFF (CFSM)	3.92		3.63		4.18	
ANNUAL RUNOFF (INCHES)	53.33		49.27		56.80	
10 PERCENT EXCEEDS	11		9.7		13	
50 PERCENT EXCEEDS	0.36		0.93		0.47	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

\# See Period of Record; partial year was used in monthly statistics, and Remarks.
a No flow Jan. 1 to Apr. 26, Sep. 12-19, Dec. 6-16, Dec. 21, and Dec. 27-31
b No Flow Dec. 6-16, Dec. 21, Dec. 27-Jan. 2, Jan. 8-21, Jan. 23-Mar. 8, and Mar. 21-Apr. 18
c No flow many days most winters, and Jun. 3, 1992 (observation), Aug. 4, Aug. 5, Aug. 9, Aug. 14 - Sept. 11, 1996, Sept. 19, 2003, and Sept. 12-19, 2004.
d From crest-stage gage.

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. GOES satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	161	e12	e12	e0.40	e0.00	e0.00	e0.00	e100	175	381	353	293
2	297	e10	e8.0	e0.40	e0.00	e0.00	e0.00	e100	157	368	413	209
3	803	e8.0	e6.0	e5.0	e0.00	e0.00	e0.00	e90	160	398	453	308
4	977	e9.0	e4.5	e25	e0.00	e0.00	e0.00	e60	214	376	397	568
5	526	e11	e3.5	e13	e0.00	e0.00	e0.00	e40	254	409	404	516
6	278	e12	e2.5	e7.0	e0.00	e0.00	e0.00	e30	230	488	423	677
7	162	13	e2.0	e4.0	e0.00	e0.00	e0.00	e30	243	478	425	451
8	111	12	e1.5	e3.0	e0.00	e0.00	e0.00	e35	411	474	436	329
9	119	e11	e1.5	e2.5	e0.00	e0.00	e0.00	e40	372	490	446	520
10	77	e200	e1.0	e2.0	e0.00	e1.0	e0.00	e45	309	478	424	535
11	118	e80	e1.0	e1.5	e0.00	e2.0	e0.00	e50	282	460	434	365
12	219	e20	e1.0	e1.0	e0.00	e3.0	e0.00	e50	275	538	477	475
13	247	e14	e0.50	e0.70	e0.00	e1.0	e0.00	e60	247	679	475	365
14	163	e9.0	e0.50	e0.50	e0.00	e0.90	e0.00	e90	224	604	447	246
15	66	e7.0	e0.40	e0.40	e0.00	e0.80	e0.00	e150	253	557	413	500
16	43	e5.5	e0.40	e0.30	e0.00	e0.60	e0.00	e160	344	713	429	817
17	31	e4.5	e0.40	e0.30	e0.00	e0.40	e0.00	173	423	655	599	545
18	27	e4.0	e20	e0.20	e0.00	e0.20	e0.00	137	545	592	671	376
19	30	e3.5	e10	e0.20	e0.00	e0.10	e0.30	142	428	582	606	263
20	25	e3.0	e5.0	e0.10	e0.00	e0.10	e1.0	133	363	520	491	205
21	23	e2.5	e2.5	e0.10	e0.00	e0.00	e10	130	368	487	501	163
22	21	e2.5	e1.5	e1.0	e0.00	e0.00	e60	137	328	441	379	260
23	23	e2.0	e10	e0.50	e0.00	e0.00	e50	149	288	385	656	406
24	21	e2.0	e5.0	e0.20	e0.00	e0.00	e30	153	287	492	585	431
25	19	e2.0	e2.5	e0.10	e0.00	e0.00	e25	148	285	832	414	227
26	20	e1.5	e1.5	e0.00	e0.00	e0.00	e30	163	295	797	373	181
27	20	e1.5	e1.0	e0.00	e0.00	e0.00	e40	336	351	564	420	545
28	18	e80	e0.90	e0.00	e0.00	e0.00	e50	453	363	451	337	392
29	17	27	e0.70	e0.00	---	e0.00	e70	437	382	389	335	198
30	15	19	e0.60	e0.00	---	e0.00	e90	256	380	340	360	143
31	e13	---	e0.50	e0.00	---	e0.00	---	194	---	343	345	---
TOTAL	4690	588.5	108.40	69.40	0.00	10.10	456.30	4271	9236	15761	13921	11509
MEAN	151	19.6	3.50	2.24	0.00	0.33	15.2	138	308	508	449	384
MAX	977	200	20	25	0.00	3.0	90	453	545	832	671	817
MIN	13	1.5	0.40	0.00	0.00	0.00	0.00	30	157	340	335	143
AC-FT	9300	1170	215	138	0.00	20	905	8470	18320	31260	27610	22830

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1991 - 2005, BY WATER YEAR (WY)#

MEAN	107	27.8	6.92	0.64	0.60	0.04	1.14	28.8	240	434	446	338
MAX	338	195	68.5	4.75	4.39	0.33	15.2	138	458	763	597	851
(WY)	2004	2003	2003	2001	2003	2005	2005	2005	2004	2001	1993	1995
MIN	12.9	2.40	0.00	0.00	0.00	0.00	0.00	0.01	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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1991 - 2005#	
ANNUAL TOTAL	58943.05		60620.70			
ANNUAL MEAN	161		166		137	
HIGHEST ANNUAL MEAN					181	2001
LOWEST ANNUAL MEAN					91.1	1998
HIGHEST DAILY MEAN	1380	Jul 27	977	Oct 4	a3600	Sep 21 1995
LOWEST DAILY MEAN	b0.00	Jan 1	c0.00	Jan 26	d0.00	Dec 5 1990
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Jan 26	0.00	Dec 5 1990
MAXIMUM PEAK FLOW			fg1390	Oct 4	g4100	Sep 20 1995
MAXIMUM PEAK STAGE			13.26	Oct 4	h15.10	Sep 20 1995
ANNUAL RUNOFF (AC-FT)	116900		120200		99080	
10 PERCENT EXCEEDS	571		482		440	
50 PERCENT EXCEEDS	4.8		27		7.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

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	d.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, Sep. 21 to Sep. 22, 1995
b From Jan. 1 to Jan. 18, and Jan. 25 to May 15
c From Jan. 26 to Mar. 9, and Mar. 21 to Apr. 18
d No flow in winter most years
f From crest-stage gage
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

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 mi2 since October 1991, when additional water was diverted into the basin. Prior drainage area was about 54 mi2.

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

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,480 ft^3/s November 6, 2002 gage height, 7.15 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, 159 ft^3/s, June 19, gage height, 3.33 ft; minimum, 0.21 ft^3/s, June 18.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.5	49	1.3	46	e43	e33	35	4.5	8.9	44	82	92
2	0.86	57	0.98	47	e42	e33	34	4.3	18	44	87	92
3	2.8	44	0.78	48	e42	e33	35	4.2	28	47	96	93
4	4.4	53	4.5	47	e41	e33	39	4.1	36	64	117	92
5	1.7	34	15	47	e41	e33	40	4.1	31	67	98	92
6	1.0	35	34	46	e40	e33	40	4.2	28	67	87	92
7	0.85	47	41	46	e40	e34	40	3.8	27	67	90	92
8	0.80	46	41	46	e39	e35	40	3.9	15	56	97	93
9	0.85	49	41	46	e39	e36	40	3.8	11	54	79	94
10	8.9	53	41	46	e39	e37	40	3.7	11	54	75	93
11	11	48	41	e38	e39	e38	39	3.7	10	54	75	88
12	4.7	47	41	e37	e38	40	39	3.7	12	54	75	85
13	1.3	47	41	e37	e38	35	39	3.9	21	55	84	85
14	1.1	16	41	e37	e37	33	39	3.9	29	61	87	85
15	0.95	0.89	41	e38	e37	33	39	3.7	27	77	88	86
16	0.90	0.84	41	e39	e36	32	39	3.7	24	73	111	83
17	0.83	0.81	41	e40	e36	32	37	3.6	17	71	101	61
18	0.83	0.93	41	e43	e35	32	36	8.1	7.8	71	91	50
19	0.87	1.4	41	e45	e35	32	36	9.5	19	72	91	45
20	4.8	1.1	43	e46	e35	33	34	8.5	40	72	91	37
21	8.5	0.93	45	e46	e34	38	27	8.5	39	73	89	35
22	13	1.0	46	46	e33	35	16	8.5	40	73	92	35
23	14	1.3	45	45	e33	35	7.3	8.5	40	73	93	30
24	19	1.2	44	44	e33	35	5.2	8.5	43	73	92	25
25	28	0.87	44	44	e33	35	4.9	8.5	46	74	92	24
26	28	4.5	44	44	e33	35	4.8	8.5	46	72	92	26
27	28	7.5	44	e44	e33	35	4.9	8.7	46	74	92	20
28	28	2.0	43	e44	e33	35	5.0	7.5	47	76	92	14
29	28	0.99	43	e44	---	35	5.0	4.9	42	77	92	14
30	27	0.81	43	44	---	37	4.6	5.8	44	81	92	14
31	29	---	43	e43	---	35	---	8.4	---	82	92	---
TOTAL	306.44	652.07	1116.56	1353	1037	1070	844.7	179.2	853.7	2052	2812	1867
MEAN	9.89	21.7	36.0	43.6	37.0	34.5	28.2	5.78	28.5	66.2	90.7	62.2
MAX	29	57	46	48	43	40	40	9.5	47	82	117	94
MIN	0.80	0.81	0.78	37	33	32	4.6	3.6	7.8	44	75	14
AC-FT	608	1290	2210	2680	2060	2120	1680	355	1690	4070	5580	3700

CAL YR 2004 TOTAL 13800.50 MEAN 37.7 MAX 107 MIN 0.09 AC-FT 27370
WTR YR 2005 TOTAL 14143.67 MEAN 38.7 MAX 117 MIN 0.78 AC-FT 28050

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). WRD AK-2000-1: 1995-1997.

GAGE.--Water-stage recorder. Elevation of gage is 2,300 ft above sea level, from topographic map.

REMARKS.--Records good except for 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 Science Center, Water-Resources office. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 300 ft^3/s and maximums (*):
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Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 03	2130	*475	*9.49

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	100	e16	e10	5.9	e4.0	3.3	e3.0	18	79	e180	e120	85
2	126	e15	e9.0	6.0	e3.8	3.3	e3.0	16	67	e180	e130	71
3	276	e15	e8.5	8.9	e3.6	3.3	e3.0	16	61	e180	e140	76
4	375	e15	e8.0	7.8	e3.6	3.2	e2.8	16	68	e180	e100	95
5	172	e15	e7.5	7.0	e3.6	e3.2	e2.4	16	90	e190	100	83
6	98	e15	e7.0	6.6	e3.8	e3.2	e2.4	15	110	e200	97	112
7	77	e15	e7.0	6.5	e3.8	e3.0	e3.0	15	120	e200	99	88
8	64	e16	e7.0	6.2	e4.0	e3.0	3.2	17	137	e200	102	76
9	58	e50	e7.5	6.1	e4.0	e3.4	3.2	19	129	e200	109	125
10	50	e110	e7.5	e5.5	e4.0	e3.2	3.1	22	125	e200	109	118
11	57	e45	e7.5	e5.5	e4.0	e3.2	3.1	25	122	e200	113	99
12	59	25	e7.5	5.7	e3.8	e3.0	3.1	39	114	e240	118	103
13	79	18	e7.5	5.7	e3.8	e3.0	3.2	49	104	e260	114	85
14	70	16	e7.0	5.6	e3.8	e3.6	3.2	56	e95	e240	110	72
15	56	15	e7.0	5.5	e3.8	3.5	3.2	45	e100	e240	108	93
16	46	13	e7.0	5.4	e3.6	3.4	3.2	37	e110	e280	107	111
17	40	e12	e7.0	5.4	e3.6	3.3	3.3	35	e120	e260	134	94
18	37	e12	e7.0	5.3	e3.6	3.3	3.3	33	e130	e240	136	77
19	34	e11	e7.0	5.2	e3.6	3.3	3.4	37	e150	e240	113	68
20	30	e11	e7.0	5.3	e3.4	3.3	3.4	41	e140	e240	106	62
21	29	e10	e6.5	5.3	e3.4	e3.0	3.5	42	e130	e260	116	55
22	29	e10	e6.5	5.2	e3.4	e2.6	e4.5	42	e130	e240	95	72
23	26	e10	e6.5	5.2	e3.4	e2.4	e5.5	43	e125	e220	122	93
24	24	e9.5	e6.5	5.2	3.4	e2.4	e7.5	47	113	e240	100	88
25	26	e9.5	e6.5	e5.0	3.4	e2.4	9.0	45	121	e330	86	62
26	22	9.2	e6.5	5.2	3.4	e2.4	9.8	49	124	e260	81	53
27	20	18	e6.5	5.1	3.4	e2.4	12	78	133	e200	84	97
28	20	15	e6.0	5.0	3.3	e2.6	16	116	154	e160	82	103
29	e18	12	e6.0	e4.8	---	e2.8	20	121	171	e130	94	83
30	e17	11	e6.0	e4.6	---	e3.0	21	134	e178	e110	113	71
31	e16	---	6.1	e4.4	---	e3.0	---	98	---	e120	94	---
TOTAL	2151	574.2	220.1	176.1	102.3	94.0	170.3	1382	3550	6620	3332	2570
MEAN	69.4	19.1	7.10	5.68	3.65	3.03	5.68	44.6	118	214	107	85.7
MAX	375	110	10	8.9	4.0	3.6	21	134	178	330	140	125
MIN	16	9.2	6.0	4.4	3.3	2.4	2.4	15	61	110	81	53
AC-FT	4270	1140	437	349	203	186	338	2740	7040	13130	6610	5100
CFSM	7.50	2.07	0.77	0.61	0.39	0.33	0.61	4.82	12.8	23.1	11.6	9.26
IN.	8.65	2.31	0.89	0.71	0.41	0.38	0.68	5.56	14.28	26.62	13.40	10.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1980 - 2005, BY WATER YEAR (WY)

MEAN	52.1	20.3	9.48	5.88	5.33	3.72	3.46	18.6	102	166	143	100
MAX	147	106	37.5	17.0	23.0	7.17	5.68	44.6	208	221	204	220
(WY)	2004	2003	2003	1981	2003	1981	2005	2005	2004	2001	2001	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

e Estimated

15239050 MIDDLE FORK BRADLEY RIVER NEAR HOMER—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1980 - 2005	
ANNUAL TOTAL	23234.4		20942.0			
ANNUAL MEAN	63.5		57.4		52.9	
HIGHEST ANNUAL MEAN					75.3	2003
LOWEST ANNUAL MEAN					34.6	1996
HIGHEST DAILY MEAN	539	Jun 18	375	Oct 4	966	Sep 20 1995
LOWEST DAILY MEAN	a4.0	Apr 21	b2.4	Mar 23	c1.1	Mar 28 1986
ANNUAL SEVEN-DAY MINIMUM	4.1	Apr 19	2.5	Mar 22	1.1	Mar 28 1986
MAXIMUM PEAK FLOW			475	Oct 3	1470	Sep 20 1995
MAXIMUM PEAK STAGE			9.49	Oct 3	10.09	Nov 5 2002
MAXIMUM PEAK STAGE					d16.16	May 12 1988
ANNUAL RUNOFF (AC-FT)	46090		41540		38290	
ANNUAL RUNOFF (CFSM)	6.86		6.20		5.71	
ANNUAL RUNOFF (INCHES)	93.44		84.22		77.64	
10 PERCENT EXCEEDS	185		140		156	
50 PERCENT EXCEEDS	15		18		12	
90 PERCENT EXCEEDS	4.7		3.3		3.4	

a Apr. 21-25
b Mar. 23-27 and Apr. 5, 6
c From Mar. 28 to Apr. 10, 1986
d 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 mi2.

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 January 6 to April 27 and 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.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	103	e26	80	e20	e14	e13	e9.0	206	120	72	22	15
2	98	e26	71	e28	e12	e12	e8.0	175	108	64	21	13
3	203	e25	59	48	e11	e11	e7.0	150	96	60	22	13
4	406	e25	e38	65	e11	12	e6.0	139	103	56	22	15
5	273	e24	e34	56	11	13	e7.0	134	123	55	22	16
6	158	e23	e30	51	12	13	e7.0	129	136	59	20	26
7	108	e22	e21	47	13	13	e7.0	121	131	56	19	24
8	87	e21	e20	43	13	19	e8.0	121	142	56	19	20
9	80	e20	e18	39	12	27	e8.0	132	128	57	19	25
10	70	e100	e18	33	12	30	e9.0	148	122	55	19	36
11	65	e100	e17	e29	12	36	e10	148	117	54	18	29
12	103	e64	e16	e28	11	35	e11	190	108	56	18	28
13	119	e36	e15	e27	11	43	e11	216	98	52	18	26
14	128	e36	e14	e27	24	41	e13	226	92	46	17	23
15	105	e36	e13	e27	18	35	e14	179	95	43	16	23
16	94	e36	e12	27	14	31	e14	142	108	45	15	32
17	80	e36	e11	e25	13	28	e15	129	114	41	16	46
18	73	e35	e10	e24	12	25	e16	123	177	38	20	41
19	75	e35	e8.0	e23	12	e21	e20	128	121	41	17	38
20	66	e36	e8.0	24	13	e18	52	139	87	38	15	34
21	61	e36	e9.0	25	15	e12	72	142	83	39	19	31
22	e53	50	e18	26	15	e15	357	136	83	35	16	31
23	e53	51	e20	25	16	e17	300	129	74	31	17	35
24	e49	52	e20	23	16	e16	197	135	69	32	16	46
25	e44	46	e17	23	15	e15	170	130	71	43	13	38
26	e45	43	e15	21	e14	e14	162	127	71	38	12	35
27	e46	74	e15	20	e13	e13	175	163	72	32	11	90
28	e46	156	e14	e18	e13	e13	226	201	72	29	11	100
29	e44	91	e14	e16	---	e11	292	199	75	26	14	80
30	e41	73	e13	e16	---	e9.0	253	153	76	22	17	71
31	e38	---	e13	e16	---	e9.0	---	128	---	21	16	---
TOTAL	3014	1434	681.0	920	378	620.0	2456.0	4718	3072	1392	537	1080
MEAN	97.2	47.8	22.0	29.7	13.5	20.0	81.9	152	102	44.9	17.3	36.0
MAX	406	156	80	65	24	43	357	226	177	72	22	100
MIN	38	20	8.0	16	11	9.0	6.0	121	69	21	11	13
AC-FT	5980	2840	1350	1820	750	1230	4870	9360	6090	2760	1070	2140
CFSM	3.92	1.93	0.89	1.20	0.54	0.81	3.30	6.14	4.13	1.81	0.70	1.45
IN.	4.52	2.15	1.02	1.38	0.57	0.93	3.68	7.08	4.61	2.09	0.81	1.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)#

MEAN	86.7	74.5	27.6	19.3	18.5	10.5	29.1	130	168	92.5	43.4	61.8
MAX	267	309	95.5	75.3	81.4	20.7	81.9	240	277	193	120	116
(WY)	2003	2003	2003	2001	2003	1998	2005	2004	2001	2001	2001	1997
MIN	23.2	16.2	6.32	2.68	2.00	2.74	9.59	74.0	82.3	44.9	12.5	25.0
(WY)	1997	2000	2004	1999	1999	1999	1999	2003	2003	2005	1996	2003

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

15239060 MIDDLE FORK BRADLEY RIVER BELOW NORTH FORK BRADLEY RIVER NEAR HOMER—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005#	
ANNUAL TOTAL	22550.5		20302.0			
ANNUAL MEAN	61.6		55.6		64.2	
HIGHEST ANNUAL MEAN					90.8	2001
LOWEST ANNUAL MEAN					44.0	1997
HIGHEST DAILY MEAN	410	May 23	406	Oct 4	1950	Oct 23 2002
LOWEST DAILY MEAN	a3.0	Mar 27	6.0	Apr 4	b1.0	Feb 5 1999
ANNUAL SEVEN-DAY MINIMUM	3.0	Mar 27	7.1	Apr 2	1.0	Feb 5 1999
MAXIMUM PEAK FLOW			466	Oct 4	c3940	Oct 24 2002
MAXIMUM PEAK STAGE			11.60	Oct 4	16.27	Oct 24 2002
MAXIMUM PEAK STAGE			d11.85	Nov 10		
ANNUAL RUNOFF (AC-FT)	44730		40270		46500	
ANNUAL RUNOFF (CFSM)	2.48		2.24		2.59	
ANNUAL RUNOFF (INCHES)	33.83		30.45		35.16	
10 PERCENT EXCEEDS	162		134		157	
50 PERCENT EXCEEDS	31		31		32	
90 PERCENT EXCEEDS	4.0		12		5.7	

\# See Period of Record; partial years used in monthly statistics
a From Mar. 27 to Apr. 3
b Feb. 5-12, 1999
c From rating curve extended above 52 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)
d Backwater from ice.

15239070 BRADLEY RIVER NEAR TIDEWATER NEAR HOMER

LOCATION.--Lat 59°48'06", long 150°52'58", in SE$^1/_4$ NE$^1/_4$ 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 at station. GOES satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	128	76	110	e70	e60	e54	45	210	128	125	125	122
2	112	87	94	79	e60	e54	e42	183	126	115	123	121
3	236	e73	71	104	e56	e52	e44	158	128	112	125	121
4	493	e82	e45	133	e56	52	e45	147	147	129	141	124
5	311	e64	e50	112	e56	53	47	143	165	132	132	124
6	188	e62	e64	102	e56	53	53	139	171	138	115	135
7	132	e80	e63	e95	e56	54	55	129	164	135	e115	132
8	104	e72	e62	e90	e54	68	51	129	166	124	e130	127
9	93	e70	e60	e86	e54	76	49	138	147	118	129	133
10	83	e170	e60	e80	e54	88	49	153	138	117	120	145
11	80	e155	e58	e70	e52	95	50	152	131	117	118	131
12	131	e115	e58	e68	e52	91	50	191	124	119	115	127
13	145	e86	e56	e68	e52	94	50	216	125	116	122	125
14	156	e58	e56	e66	e66	84	52	225	128	115	121	123
15	126	e46	e55	e66	e58	71	53	184	131	133	118	124
16	111	e41	e54	e66	e54	64	53	147	142	132	126	133
17	91	e40	e53	e66	e54	59	53	133	137	125	130	123
18	80	e40	e52	e68	e52	56	53	129	191	123	124	101
19	85	e40	e50	e70	e50	54	58	138	139	127	122	93
20	71	e41	e52	e70	e50	51	86	146	137	124	122	81
21	68	e41	e56	e72	e52	e50	110	149	131	127	125	74
22	66	e53	e68	e72	e54	e50	420	142	131	122	124	74
23	68	e54	e68	e72	59	52	338	135	120	118	125	76
24	69	e55	e66	71	58	51	222	141	117	121	124	81
25	73	e50	e62	68	57	50	193	136	124	134	123	71
26	74	52	e60	65	56	49	183	134	124	128	122	70
27	75	96	e60	e64	e56	48	191	172	125	123	120	129
28	75	209	e62	e64	e56	48	229	204	127	124	116	134
29	73	121	e62	e64	---	47	281	200	127	123	122	112
30	69	91	e63	e64	---	e46	251	157	130	122	123	101
31	68	---	e64	e62	---	e45	---	133	---	123	121	---
TOTAL	3734	2320	1914	2367	1550	1859	3456	4893	4121	3841	3818	3367
MEAN	120	77.3	61.7	76.4	55.4	60.0	115	158	137	124	123	112
MAX	493	209	110	133	66	95	420	225	191	138	141	145
MIN	66	40	45	62	50	45	42	129	117	112	115	70
AC-FT	7410	4600	3800	4690	3070	3690	6850	9710	8170	7620	7570	6680

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)#

MEAN	117	122	68.8	63.7	64.8	52.3	72.4	167	181	140	132	132
MAX	317	594	137	137	117	70.5	115	261	263	185	178	224
(WY)	2003	2003	2003	2001	2003	1998	2005	2004	1998	2001	1995	1995
MIN	64.0	51.2	47.1	41.6	42.2	43.3	50.5	120	114	115	105	104
(WY)	1998	2000	1998	1999	1999	2004	1999	1996	1997	1997	2002	1993

\# See Period of Record; partial year was used in monthly statistics, and Remarks.
e Estimated

15239070 BRADLEY RIVER NEAR TIDEWATER NEAR HOMER—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005#	
ANNUAL TOTAL	38519		37240			
ANNUAL MEAN	105		102		109	
HIGHEST ANNUAL MEAN					164	2003
LOWEST ANNUAL MEAN					83.8	1996
HIGHEST DAILY MEAN	493	Oct 4	493	Oct 4	3490	Nov 6 2002
LOWEST DAILY MEAN	a35	Jan 18	b40	Nov 17	c35	Jan 18 2004
ANNUAL SEVEN-DAY MINIMUM	40	Feb 26	41	Nov 15	40	Jan 28 1999
MAXIMUM PEAK FLOW			591	Oct 4	6200	Nov 5 2002
MAXIMUM PEAK STAGE			6.51	Oct 4	d10.83	Nov 5 2002
INSTANTANEOUS LOW FLOW					17	Mar 28 1989
ANNUAL RUNOFF (AC-FT)	76400		73870		79320	
10 PERCENT EXCEEDS	194		148		177	
50 PERCENT EXCEEDS	80		94		91	
90 PERCENT EXCEEDS	44		52		47	

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
MAXIMUM PEAK FLOW	f11000	Oct 11 1986
MAXIMUM PEAK STAGE	d13.73	Oct 11 1986
INSTANTANEOUS LOW FLOW	g17	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; partial year was used in monthly statistics, and Remarks.
a Jan. 18, 19
b Nov. 17-19
c Jan. 18, 19, 2004
d From floodmarks
f From rating curve extended above 2,400 ft^3/s on basis of runoff comparisons with nearby stations.
g Minimum recorded, but may have been less during period of ice effect, Mar. 28 to Mar. 31, 1989.

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.--Record 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1550	208	401	e140	e95	e65	67	1050	1610	2490	2070	2840
2	2220	173	366	e140	e95	73	70	971	1450	2390	2180	1260
3	4510	230	314	e140	e95	62	65	880	1350	2280	3130	1260
4	3790	222	322	e160	e95	60	62	840	1390	2220	3290	1990
5	2610	233	293	e150	e95	61	64	838	1590	2260	2850	2400
6	1810	163	261	e150	e95	63	121	832	1610	2440	2560	2580
7	1340	228	235	e130	e95	69	127	891	1740	2380	2570	2210
8	1040	223	204	e110	e90	99	113	906	1950	2420	2640	1740
9	892	205	181	e110	e90	126	107	989	2450	2550	2650	1810
10	828	900	172	e120	e90	259	109	1080	3170	2520	2710	2360
11	701	820	173	e120	e90	402	112	1090	2860	2450	2880	1840
12	1090	536	151	e120	e90	295	116	1750	2500	2460	2940	1920
13	e1000	450	157	e120	e90	296	118	2180	2220	2730	2750	1580
14	e1150	376	144	e120	e120	243	124	2680	2050	3350	2550	1400
15	972	321	138	e120	e110	190	127	2080	2130	3070	2450	1330
16	766	292	151	e100	e100	166	131	1610	2310	2860	2350	1970
17	648	265	166	e95	e95	144	133	1340	2660	2840	2410	2710
18	570	248	288	e95	e90	136	145	1260	3060	2550	2850	2190
19	553	254	296	e95	e90	126	158	1210	2890	2550	2670	1680
20	548	259	233	e95	e80	114	235	1240	2470	2510	2650	1460
21	613	231	218	e95	e80	96	302	1270	2260	2590	2420	1210
22	918	219	232	e110	e80	95	873	1350	2140	2210	2070	1250
23	558	213	262	e120	e80	91	838	1330	1920	2140	2720	1520
24	363	232	e200	e100	e70	86	740	1380	1960	2270	2640	2200
25	304	220	e160	e100	e70	83	740	1290	1990	3210	2050	1480
26	285	178	e150	e100	e70	80	851	1380	2040	3580	1850	1150
27	281	209	e140	e100	e65	78	934	2130	2150	3540	1790	2280
28	277	771	e140	e100	e70	76	1050	2530	2250	3020	1700	2390
29	272	513	e140	e100	---	75	1220	2700	2410	2260	1620	1850
30	246	387	e140	e95	---	76	1180	2270	2480	1910	1590	1350
31	214	---	e140	e95	---	71	---	1850	---	2050	2290	---
TOTAL	32919	9779	6568	3545	2475	3956	11032	45197	65060	80100	75890	55210
MEAN	1062	326	212	114	88.4	128	368	1458	2169	2584	2448	1840
MAX	4510	900	401	160	120	402	1220	2700	3170	3580	3290	2840
MIN	214	163	138	95	65	60	62	832	1350	1910	1590	1150
AC-FT	65290	19400	13030	7030	4910	7850	21880	89650	129000	158900	150500	109500

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1970 - 2005, BY WATER YEAR (WY)#

MEAN	1354	829	322	193	150	105	195	940	2269	3103	2932	2742
MAX	2720	2481	713	524	444	220	368	1458	2714	3281	5598	6294
(WY)	2004	2004	2003	2001	2003	1998	2005	2005	2002	1998	1977	1974
MIN	279	163	87.3	57.0	42.0	39.2	81.8	491	1780	2584	1764	1157
(WY)	1998	2002	1999	1999	1999	1999	1999	2001	1999	2005	1998	2000

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1970 - 2005#	
ANNUAL TOTAL	402987		391731			
ANNUAL MEAN	1101		1073		1193	
HIGHEST ANNUAL MEAN					1412	2001
LOWEST ANNUAL MEAN					965	2000
HIGHEST DAILY MEAN	4650	Jun 17	4510	Oct 3	a23800	Sep 20 1974
LOWEST DAILY MEAN	70	Mar 31	60	Mar 4	b36	Mar 3 1999
ANNUAL SEVEN-DAY MINIMUM	77	Feb 3	65	Mar 1	37	Feb 26 1999
MAXIMUM PEAK FLOW			6780	Sep 1	a26400	Sep 20 1974
MAXIMUM PEAK STAGE			d11.00	Sep 1	c40.75	Sep 20 1974
INSTANTANEOUS LOW FLOW			f		36	Mar 3 1999
ANNUAL RUNOFF (AC-FT)	799300		777000		864500	
10 PERCENT EXCEEDS	3000		2580		3060	
50 PERCENT EXCEEDS	418		648		490	
90 PERCENT EXCEEDS	85		90		80	

\# See Period of Record; partial years used in monthly statistic
a Result of release of stored water from glacier-dammed lake
b Mar. 3 and Mar. 4, 1999
c Site and datum then in use
d From crest-stage gage
f Not determined, see lowest daily mean
e Estimated

15258000 KENAI RIVER AT COOPER LANDING

LOCATION.--Lat 60°29′34″, long 149°48′28″, in SE$^1/_4$ 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.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1947 to current year.

REVISED RECORDS.--WSP 2136: 1964 (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. Record good. Diversion from Cooper Lake to Kenai Lake above gage through Cooper Lake power plant began May 1961. 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2660	1620	1570	953	602	484	560	2020	5830	6230	5800	4360
2	2830	1580	1560	947	593	481	550	2220	5600	6280	5710	4230
3	3840	1540	1530	963	584	478	547	2370	5350	6250	5730	4020
4	5000	1480	1510	953	574	476	543	2490	5160	6170	5980	3900
5	5610	1420	1470	934	571	475	539	2570	5170	6040	6110	4000
6	5750	1370	1450	925	568	470	543	2610	5270	6020	6070	4260
7	5570	1340	1410	908	561	468	546	2640	5290	6060	6030	4510
8	5240	1310	1360	900	550	467	545	2670	5330	6080	5970	4560
9	4900	1320	1320	886	550	481	545	2730	5480	6100	5920	4620
10	4530	1400	1280	858	537	480	545	2820	5920	6200	5870	4740
11	4190	1530	1250	834	539	519	538	2940	6420	6190	5840	4840
12	3960	1570	1220	820	532	540	540	3140	6700	6190	5880	4810
13	3840	1580	1200	809	540	556	546	3480	6770	6150	5980	4760
14	3840	1570	1180	797	544	569	549	4110	6720	6300	5920	4630
15	3750	1550	1170	782	553	585	542	4670	6650	6470	5830	4520
16	3590	1530	1130	753	552	584	540	4960	6690	6530	5680	4430
17	3420	1520	1120	738	545	586	551	5000	6910	6480	5510	4680
18	3230	1500	1100	720	539	589	559	4910	7320	6400	5460	4880
19	3060	1480	1090	707	533	587	569	4820	7650	6320	5380	4910
20	2870	1440	1080	713	533	584	583	4740	7740	6260	5420	4780
21	2710	1410	1090	698	527	587	606	4660	7630	6230	5360	4570
22	2600	1390	1100	690	519	593	684	4650	7390	6120	5280	4350
23	2540	1360	1060	688	516	594	762	4680	7020	5910	5240	4270
24	2370	1330	1010	686	503	589	832	4720	6700	5740	5270	4370
25	2260	1310	1010	683	504	582	935	4720	6410	5770	5230	4430
26	2160	1280	1010	670	495	575	1040	4740	6200	6140	5030	4330
27	2060	1280	1000	665	493	570	1170	4890	6110	6460	4820	4260
28	1960	1400	954	657	486	569	1340	5220	6050	6660	4640	4510
29	1870	1510	981	648	---	566	1560	5660	6060	6550	4450	4590
30	1790	1540	978	628	---	562	1800	5920	6120	6210	4250	4490
31	1720	---	967	612	---	557	---	5960	---	5920	4150	---
TOTAL	105720	43460	37160	24225	15143	16803	21709	123730	189660	192430	169810	134610
MEAN	3410	1449	1199	781	541	542	724	3991	6322	6207	5478	4487
MAX	5750	1620	1570	963	602	594	1800	5960	7740	6660	6110	4910
MIN	1720	1280	954	612	486	467	538	2020	5160	5740	4150	3900
MED	3230	1460	1130	753	539	566	550	4660	6310	6200	5680	4510
AC-FT	209700	86200	73710	48050	30040	33330	43060	245400	376200	381700	336800	267000
CFSM	5.38	2.28	1.89	1.23	0.85	0.85	1.14	6.30	9.97	9.79	8.64	7.08
IN.	6.20	2.55	2.18	1.42	0.89	0.99	1.27	7.26	11.13	11.29	9.96	7.90
ADJUSTED TO EXCLUDE DIVERSION FROM COOPER LAKE												
MEAN	3320	1365	1088	697	439	462	648	3874	6197	6208	5423	4351
CFSM	5.24	2.15	1.72	1.10	0.69	0.73	1.02	6.11	9.77	9.79	8.55	6.86
IN	6.04	2.40	1.98	1.27	0.75	0.84	1.14	7.05	10.90	11.29	9.86	7.66
AC-FT	204130	81220	66870	42860	25280	28390	38580	238230	368740	381700	333450	258890
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2005, BY WATER YEAR (WY)#												
MEAN	3359	1897	1171	834	681	528	559	2003	5470	6983	6322	5198
MAX	8955	6739	3755	2807	2066	1122	1071	4277	10010	10480	11430	11490
(WY)	1980	2003	2003	1981	1981	1977	1980	2004	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

See Period of Record; partial year was used in monthly statistics, and Remarks

15258000 KENAI RIVER AT COOPER LANDING—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1947 - 2005#	
ANNUAL TOTAL	1074947		1074460			
ANNUAL MEAN	2937		2944		2935	
ANNUAL MEAN	*2826		*2849		*2859	
HIGHEST ANNUAL MEAN					4499	1977
LOWEST ANNUAL MEAN					2102	1969
HIGHEST DAILY MEAN	8860	Jun 21	7740	Jun 20	22500	Sep 21 1974
LOWEST DAILY MEAN	643	Apr 2	467	Mar 8	100	Mar 28 1964
ANNUAL SEVEN-DAY MINIMUM	650	Mar 29	474	Mar 2	190	Mar 15 1951
MAXIMUM PEAK FLOW			7830	Jun 20	a23100	Sep 21 1974
MAXIMUM PEAK STAGE			11.71	Jun 20	17.18	Sep 21 1974
INSTANTANEOUS LOW FLOW			415	Mar 10	b0.00	Mar 27 1964
ANNUAL RUNOFF (AC-FT)	2132000		2131000		2126000	
ANNUAL RUNOFF (AC-FT)	*2046070		*2068340		*2071000	
ANNUAL RUNOFF (CFSM)	*4.46		*4.49		*4.51	
ANNUAL RUNOFF (INCHES)	*60.53		*61.18		*61.24	
10 PERCENT EXCEEDS	6390		6140		6950	
50 PERCENT EXCEEDS	1670		1800		1670	
90 PERCENT EXCEEDS	752		545		422	

\# See Period of Record; partial year was used in monthly statistics, and Remarks
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

15258000 KENAI RIVER AT COOPER LANDING—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-53, 1955-60, 1966-74, 1976, 1994 and December 2002 to current year.

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Water year 1950, and December 2002 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 stream average by cross section on April 15, July 21, and September 13. No variation more than 2.7°C was found within the cross sections. No variation more than 1.2°C was found between mean stream temperature and sensor temperature. Occasional large variations across cross section similar to one detected on July 21 are due to recorder location at outlet of Kenai Lake. Variation across cross sections and difference between mean stream temperature and sensor temperature are both usually less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORDS.--
WATER TEMPERATURE: Maximum, 18.0°C, August 18, 19 2004; minimum, 0.0°C, on several days during most winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 16.0°C, August 16; minimum, 0.0°C, on several days in February and April.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Sample location, cross section ft from rt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampler type, code (84164)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
APR										
15...	1045	129	--	10.0	5.40	555	8010	10	2.7	6.8
15...	1047	129	--	25.0	5.40	555	8010	10	2.6	6.8
15...	1049	129	--	50.0	5.40	555	8010	10	2.3	6.8
15...	1051	129	--	75.0	5.40	555	8010	10	2.3	6.8
15...	1053	129	--	100.0	5.40	555	8010	10	2.3	6.8
JUL										
21...	1430	330	55.0	--	10.90	6210	8010	10	13.0	22.0
21...	1432	330	110	--	10.90	6210	8010	10	11.6	22.0
21...	1434	330	165	--	10.90	6210	8010	10	10.3	22.0
21...	1436	330	220	--	10.90	6210	8010	10	10.8	22.0
21...	1438	330	275	--	10.90	6210	8010	10	12.2	22.0
SEP										
13...	1242	343	60.0	--	10.06	4690	8010	10	10.2	14.2
13...	1244	343	95.0	--	10.06	4690	8010	10	10.0	14.2
13...	1246	343	130	--	10.06	4690	8010	10	10.0	14.2
13...	1248	343	180	--	10.06	4690	8010	10	10.1	14.2
13...	1250	343	225	--	10.06	4690	8010	10	10.1	14.2

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	8.0	7.0	7.5	5.5	4.5	5.0	3.5	2.5	3.0	2.0	1.5	1.5
2	7.5	7.0	7.5	5.0	4.5	5.0	3.5	2.5	3.0	2.0	1.0	1.5
3	7.5	7.0	7.5	5.0	4.5	4.5	3.5	2.5	3.0	2.0	1.0	1.5
4	8.0	7.0	7.5	5.0	4.0	4.5	3.0	2.0	3.0	2.0	1.0	1.5
5	8.0	7.0	7.5	4.5	4.0	4.0	3.5	2.5	3.0	2.5	1.5	2.0
6	8.0	7.0	7.5	4.5	3.5	4.0	3.0	2.0	2.5	2.5	1.5	2.0
7	8.0	7.0	7.5	4.0	3.5	4.0	2.5	2.0	2.0	3.0	1.5	2.0
8	7.5	7.0	7.5	4.0	3.5	3.5	3.0	2.0	2.5	2.5	1.5	2.0
9	7.5	7.0	7.5	4.0	3.0	3.5	2.5	1.5	2.0	2.5	2.0	2.0
10	7.5	7.0	7.5	4.5	3.0	3.5	2.5	2.0	2.0	2.5	1.5	2.0
11	7.5	7.0	7.5	4.0	3.0	3.5	2.5	1.5	2.0	2.5	1.5	2.0
12	7.5	7.0	7.5	4.0	3.0	3.5	2.5	1.5	2.0	2.5	1.5	2.0
13	7.5	7.0	7.0	4.0	3.0	3.5	2.5	1.5	2.0	2.0	1.0	2.0
14	7.5	7.0	7.0	4.0	3.0	3.5	2.5	1.5	2.0	1.5	1.0	1.0
15	7.5	7.0	7.0	4.0	3.0	3.5	2.5	1.5	2.0	1.5	1.0	1.5
16	7.5	7.0	7.0	4.0	3.0	3.5	3.0	2.0	2.5	2.0	1.0	1.5
17	7.5	6.5	7.0	4.0	3.0	3.5	3.0	2.0	2.5	1.5	1.0	1.5
18	7.0	6.5	7.0	4.0	3.0	3.5	3.0	2.0	2.5	1.5	1.0	1.0
19	7.0	6.5	7.0	3.5	3.0	3.5	3.0	2.0	2.5	1.5	1.0	1.5
20	7.0	6.5	6.5	3.5	3.0	3.0	3.5	2.0	2.5	2.0	1.0	1.5
21	7.0	6.5	6.5	3.5	2.5	3.0	2.5	1.5	2.0	2.0	1.0	1.5
22	6.5	6.0	6.5	3.5	2.5	3.0	3.0	2.0	2.5	2.0	1.5	1.5
23	6.5	6.0	6.5	3.5	2.5	3.0	3.0	2.0	2.5	2.0	1.0	1.5
24	6.5	6.0	6.5	3.5	3.0	3.0	2.5	1.5	2.0	2.0	1.0	1.5
25	6.5	6.0	6.0	3.5	3.0	3.0	2.5	1.5	2.0	2.0	1.0	1.5
26	6.5	6.0	6.0	3.5	2.5	3.0	2.5	1.5	2.0	2.0	1.0	1.5
27	6.0	5.5	6.0	3.5	2.5	3.0	2.0	1.0	1.5	1.5	1.0	1.0
28	6.0	5.5	6.0	3.5	2.5	3.0	2.5	1.5	2.0	1.5	1.0	1.0
29	6.0	5.5	6.0	3.5	2.5	3.0	2.0	1.5	2.0	1.5	1.0	1.5
30	6.0	5.5	5.5	3.5	2.5	3.0	2.0	1.5	2.0	1.5	1.0	1.0
31	6.0	5.0	5.5	---	---	---	2.0	1.5	2.0	1.5	0.5	1.0
MONTH	8.0	5.0	6.9	5.5	2.5	3.5	3.5	1.0	2.3	3.0	0.5	1.5

15258000 KENAI RIVER AT COOPER LANDING—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	1.5	0.5	1.0	2.0	0.5	1.0	3.0	1.0	1.5	4.5	3.5	4.0
2	1.5	0.5	1.0	2.0	0.5	1.0	2.5	0.5	1.5	4.5	3.5	4.0
3	1.5	1.0	1.5	2.0	0.5	1.0	3.0	1.0	1.5	5.0	3.5	4.0
4	2.0	1.0	1.5	2.0	0.5	1.0	2.5	1.0	1.5	5.0	3.5	4.0
5	2.0	1.0	1.5	2.0	1.0	1.5	2.5	1.0	1.5	4.5	3.5	4.0
6	2.0	1.5	2.0	2.0	1.0	1.5	2.5	1.0	2.0	5.0	3.5	4.0
7	2.0	0.5	1.5	2.5	1.0	1.5	3.0	1.0	2.0	5.0	3.5	4.0
8	1.5	0.0	1.0	2.0	1.0	1.5	3.0	1.0	2.0	5.0	4.0	4.5
9	1.5	0.5	1.0	2.0	1.0	1.5	3.0	1.0	2.0	5.0	3.5	4.0
10	1.5	0.0	0.5	2.0	1.0	1.5	3.0	1.0	2.0	5.0	4.0	4.5
11	1.0	0.0	0.5	2.0	1.0	1.5	3.5	1.0	2.5	6.0	3.5	4.5
12	1.0	0.0	0.5	1.5	1.0	1.0	4.0	1.0	2.5	6.5	5.0	5.5
13	1.5	0.5	1.0	2.0	1.0	1.5	4.0	1.5	2.5	5.5	4.5	5.0
14	1.5	0.5	1.0	2.0	0.5	1.5	4.0	1.5	2.5	5.5	4.5	5.0
15	1.5	0.0	1.0	2.0	0.5	1.5	4.0	2.0	2.5	5.5	4.5	5.0
16	1.0	0.0	0.5	2.0	0.5	1.5	4.0	1.5	2.5	5.5	4.5	5.0
17	1.5	0.0	0.5	2.5	0.5	1.5	4.5	2.0	3.0	5.5	4.5	5.0
18	1.5	0.0	0.5	2.5	1.0	1.5	3.5	1.5	2.5	5.5	4.0	5.0
19	1.5	0.5	1.0	3.0	1.0	1.5	3.0	1.5	2.0	5.0	4.0	4.5
20	1.5	0.5	1.0	2.5	0.5	1.5	3.5	0.0	2.0	6.5	4.0	5.5
21	1.5	0.5	1.0	2.0	1.0	1.5	3.0	0.0	2.0	6.0	4.5	5.5
22	1.5	0.5	1.0	2.0	1.0	1.5	4.5	2.0	3.0	5.5	4.0	4.5
23	1.5	0.5	1.0	3.0	1.0	1.5	4.0	2.5	3.0	5.0	4.0	4.5
24	1.5	0.5	1.0	2.5	1.0	1.5	4.0	2.5	3.5	6.5	4.0	5.0
25	1.5	0.5	1.0	2.5	1.0	1.5	4.0	2.5	3.5	6.5	4.5	5.5
26	1.5	0.5	1.0	2.5	0.5	1.5	4.0	2.5	3.5	6.5	5.0	5.5
27	2.0	0.5	1.0	2.5	0.5	1.5	4.0	3.0	3.5	6.0	5.0	5.5
28	1.5	0.5	1.0	2.5	0.5	1.5	4.5	3.0	3.5	6.0	4.5	5.0
29	---	---	---	2.5	0.5	1.5	4.5	3.0	3.5	6.0	4.5	5.0
30	---	---	---	2.5	0.5	1.5	4.5	3.0	4.0	6.0	4.5	5.0
31	---	---	---	2.5	1.0	1.5	---	---	---	6.0	4.5	5.5
MONTH	2.0	0.0	1.0	3.0	0.5	1.4	4.5	0.0	2.5	6.5	3.5	4.8

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.5	5.0	5.5	13.0	11.0	12.0	13.5	12.0	12.5	11.0	9.5	10.0
2	6.0	5.0	5.5	12.0	9.5	10.5	13.0	12.0	12.5	11.0	9.5	10.5
3	5.5	4.5	5.0	11.0	9.0	10.0	13.0	11.5	12.5	11.5	10.5	11.0
4	5.5	4.5	5.0	12.5	9.0	10.5	12.5	11.5	12.0	11.0	10.5	11.0
5	5.5	4.5	5.0	12.0	8.5	10.0	12.5	10.5	11.5	11.0	10.5	10.5
6	6.5	5.0	5.5	10.5	8.5	9.5	12.5	10.5	11.5	11.0	10.5	10.5
7	6.5	5.5	6.0	12.0	8.5	10.5	11.0	9.0	10.0	10.5	10.0	10.5
8	6.5	5.5	6.0	13.5	9.0	12.0	10.0	8.0	9.0	10.5	10.0	10.0
9	6.5	5.5	6.0	11.0	9.0	10.0	11.0	8.5	9.5	11.0	10.0	10.5
10	6.5	5.5	6.0	13.0	8.5	11.5	12.0	9.0	10.5	10.5	10.0	10.0
11	7.0	5.5	6.0	13.5	11.5	12.5	9.5	8.5	9.0	10.5	9.5	10.0
12	7.0	5.5	6.0	13.5	12.5	13.0	14.0	8.5	10.0	10.5	10.0	10.0
13	6.5	5.5	6.0	13.0	12.5	13.0	15.5	12.5	13.5	10.0	9.5	10.0
14	6.5	5.0	5.5	13.0	10.0	12.0	15.5	10.0	12.0	10.0	9.0	9.5
15	6.5	5.0	5.5	12.5	10.0	10.5	14.5	10.5	13.0	10.5	9.5	10.0
16	6.5	5.0	5.5	13.5	12.5	13.0	16.0	14.0	15.0	10.0	9.5	10.0
17	7.0	5.0	5.5	13.0	11.0	12.0	15.5	14.5	15.0	10.0	9.5	9.5
18	10.5	6.0	9.0	11.5	7.5	9.5	15.0	14.0	15.0	10.0	8.5	9.5
19	10.5	6.0	7.5	8.5	7.5	8.0	15.0	10.5	12.5	9.0	8.5	9.0
20	7.0	5.0	6.0	12.0	6.5	8.5	15.0	11.5	13.5	9.5	8.5	9.0
21	8.5	5.0	6.0	12.0	10.5	11.5	15.0	14.0	14.5	9.5	8.5	9.0
22	9.0	7.5	8.5	13.0	11.5	12.0	14.5	12.0	13.5	9.5	8.5	9.0
23	8.5	7.0	7.5	14.0	11.5	12.5	14.5	13.0	14.0	9.5	9.0	9.5
24	8.0	6.5	7.0	14.0	13.0	13.5	13.5	12.0	13.0	9.5	8.5	9.0
25	8.0	6.5	7.0	13.5	13.0	13.0	13.0	11.5	12.0	9.5	8.5	9.0
26	7.5	6.0	7.0	13.5	12.5	13.0	12.0	9.0	10.5	9.5	8.5	9.0
27	10.0	6.5	8.0	13.5	11.5	12.5	10.0	8.0	9.0	9.0	8.5	9.0
28	10.0	7.0	9.0	13.0	11.0	12.0	10.5	9.0	9.5	9.0	8.5	9.0
29	11.5	7.5	9.0	13.0	11.5	12.5	10.5	10.0	10.5	9.0	8.5	9.0
30	12.5	10.5	11.5	13.0	11.0	12.0	10.5	9.5	10.0	9.0	8.0	8.5
31	---	---	---	13.0	12.5	12.5	11.0	9.5	10.0	---	---	---
MONTH	12.5	4.5	6.6	14.0	6.5	11.5	16.0	8.0	11.8	11.5	8.0	9.7

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 and crest-stage gage. 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 for 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	39	e30	37	e16	e13	13	12	111	78	70	50	27
2	60	e30	34	e20	e13	12	e12	104	71	64	50	26
3	189	e30	32	e22	e13	12	12	91	65	64	49	25
4	164	e28	e26	e24	e13	12	11	87	68	60	47	28
5	127	e28	e20	e22	e13	13	e11	84	79	58	45	29
6	97	e28	e16	e22	e13	13	e11	82	82	61	44	33
7	78	e28	e16	e22	e13	13	e11	84	81	62	42	33
8	57	e26	e16	e20	e13	14	e10	86	80	65	41	32
9	49	e26	e18	e19	e14	14	e10	95	79	60	39	33
10	46	e26	e24	e18	e13	15	e10	103	86	57	38	42
11	43	e30	e24	e17	e13	17	e10	109	88	57	37	37
12	49	e34	e24	e16	e13	15	e10	123	82	56	35	39
13	55	38	e26	e16	e13	17	e11	131	76	53	34	38
14	59	36	28	e15	e15	16	e12	134	77	50	33	36
15	52	34	28	e15	e14	15	e13	115	85	48	32	36
16	53	33	22	e15	14	14	e14	100	93	48	31	39
17	49	31	22	e14	14	14	e15	90	96	45	30	43
18	44	30	22	e13	13	13	e16	88	112	44	29	42
19	43	31	22	e13	13	13	18	89	113	44	28	40
20	40	30	22	e13	13	13	22	95	89	47	27	37
21	38	29	e24	e14	13	15	26	97	80	48	30	36
22	36	28	27	e15	13	13	66	96	78	44	28	37
23	35	28	24	e16	13	13	65	96	74	43	28	46
24	33	28	e24	e15	13	13	67	97	69	43	27	55
25	32	26	e24	e15	13	13	71	90	66	48	26	51
26	32	25	e22	e15	13	13	82	86	65	51	25	48
27	32	28	e20	e15	13	13	93	94	64	49	24	50
28	31	60	e19	e14	13	12	108	98	70	46	24	50
29	31	41	e18	e14	---	12	132	100	69	46	25	49
30	31	36	e17	e15	---	e12	114	93	69	45	24	48
31	e30	---	e16	e14	---	12	---	83	---	46	29	---
TOTAL	1754	936	714	514	370	419	1075	3031	2384	1622	1051	1165
MEAN	56.6	31.2	23.0	16.6	13.2	13.5	35.8	97.8	79.5	52.3	33.9	38.8
MAX	189	60	37	24	15	17	132	134	113	70	50	55
MIN	30	25	16	13	13	12	10	82	64	43	24	25
AC-FT	3480	1860	1420	1020	734	831	2130	6010	4730	3220	2080	2310

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1958 - 2005, BY WATER YEAR (WY) #

MEAN	74.6	49.7	25.9	19.4	16.1	12.0	19.7	99.1	174	129	73.3	66.6
MAX	264	285	82.9	58.9	50.5	28.0	50.3	219	412	326	226	309
(WY)	1958	1958	1958	1958	2003	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	48.8	22.6	17.6
(WY)	1964	1964	1964	1964	1999	1999	1960	1964	1963	2004	2004	2004

\# See Period of Record; partial year was used in monthly statistics.
e Estimated

15261000 COOPER CREEK AT MOUTH NEAR COOPER LANDING—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1958 - 2005#	
ANNUAL TOTAL	14974.7		15035			
ANNUAL MEAN	40.9		41.2		64.1	
HIGHEST ANNUAL MEAN					a174	1958
LOWEST ANNUAL MEAN					29.9	1963
HIGHEST DAILY MEAN	224	May 24	189	Oct 3	ab810	Sep 22 1961
LOWEST DAILY MEAN	8.9	Mar 29	c10	Apr 8	d4.0	Mar 19 1999
ANNUAL SEVEN-DAY MINIMUM	9.0	Mar 27	10	Apr 6	4.0	Mar 19 1999
MAXIMUM PEAK FLOW			246	Oct 3	f1230	Oct 23 2002
MAXIMUM PEAK STAGE			10.98	Oct 3	f12.45	Oct 23 2002
INSTANTANEOUS LOW FLOW	g		g		h3.1	Mar 1 1960
ANNUAL RUNOFF (AC-FT)	29700		29820		46450	
10 PERCENT EXCEEDS	116		88		152	
50 PERCENT EXCEEDS	24		31		33	
90 PERCENT EXCEEDS	10		13		10	

See Period of Record; partial year was 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 Apr. 8 to Apr. 12
d From Mar. 19 to Apr. 14, 1999
f From high water mark
g Not determined. See Lowest Daily Mean.
h 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.--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 4. No variation was found within the cross section. The variation between mean stream temperature and sensor temperature is less than 0.2°C. Heavy shore ice occurs near the gage.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 12.5°C, July 7 and 12, 2004 and August 17, 2004; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 12.0°C, August 12; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
MAY								
04...	1532	32.0	3.00	10.27	86	10	5.5	12.6
04...	1534	32.0	9.00	10.27	86	10	5.5	12.6
04...	1536	32.0	15.0	10.27	86	10	5.5	12.6
04...	1538	32.0	21.0	10.27	86	10	5.5	12.6
04...	1540	32.0	27.0	10.27	86	10	5.5	12.6

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.0	3.0	6.0	0.0	0.0	0.0	2.0	1.5	2.0	0.0	0.0	0.0
2	5.5	2.5	5.5	0.0	0.0	0.0	1.5	0.5	1.5	0.0	0.0	0.0
3	5.5	4.5	5.5	0.0	0.0	0.0	1.0	0.0	1.0	0.0	0.0	0.0
4	5.5	4.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	5.0	3.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	5.5	3.5	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	5.5	4.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	5.5	4.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	5.5	4.0	5.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	5.0	3.5	5.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	4.5	3.0	4.5	1.0	0.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
12	5.0	4.0	5.0	2.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
13	5.0	3.0	5.0	2.0	1.0	2.0	0.5	0.0	0.5	0.0	0.0	0.0
14	5.0	4.0	5.0	1.0	0.5	1.0	0.5	0.0	0.5	0.0	0.0	0.0
15	4.0	2.5	4.0	1.0	0.5	1.0	1.0	0.0	1.0	0.0	0.0	0.0
16	4.0	3.0	4.0	1.0	0.5	1.0	1.0	1.0	1.0	0.0	0.0	0.0
17	3.0	1.5	3.0	1.0	0.5	1.0	1.5	1.0	1.5	0.0	0.0	0.0
18	2.5	0.5	2.5	1.5	1.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0
19	3.5	2.5	3.5	2.0	0.5	2.0	1.5	0.5	1.5	0.0	0.0	0.0
20	2.5	1.0	2.5	1.5	0.5	1.5	0.5	0.0	0.5	0.0	0.0	0.0
21	2.0	1.5	2.0	1.5	0.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
22	1.5	0.0	1.5	1.5	1.0	1.5	1.0	0.0	1.0	0.0	0.0	0.0
23	2.5	1.5	2.5	2.0	1.5	2.0	1.5	0.0	1.5	0.0	0.0	0.0
24	2.5	1.5	2.5	2.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
25	2.0	0.5	2.0	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
26	3.5	2.0	3.5	1.5	0.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
27	2.5	1.5	2.5	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
28	2.5	2.0	2.5	2.0	0.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
29	2.0	1.5	2.0	2.0	0.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0
30	1.5	0.5	1.5	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
31	0.5	0.0	0.5	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	6.0	0.0	3.8	2.0	0.0	1.1	2.0	0.0	0.5	0.0	0.0	0.0

15261000 COOPER CREEK AT MOUTH NEAR COOPER LANDING—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	0.5	0.0	0.5	1.0	0.0	1.0	4.5	2.0	4.5
2	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.5	5.0	1.5	5.0
3	0.0	0.0	0.0	0.5	0.5	0.5	0.5	0.0	0.5	5.0	1.5	5.0
4	0.0	0.0	0.0	1.0	0.5	1.0	1.0	0.0	1.0	5.5	2.0	5.5
5	0.0	0.0	0.0	1.0	1.0	1.0	1.5	0.5	1.5	3.5	2.0	3.5
6	0.0	0.0	0.0	1.0	1.0	1.0	1.5	1.0	1.5	5.5	2.5	5.5
7	0.0	0.0	0.0	1.0	1.0	1.0	1.5	1.0	1.5	6.0	1.5	6.0
8	0.0	0.0	0.0	1.0	0.5	1.0	1.5	1.0	1.5	6.5	1.5	6.5
9	0.0	0.0	0.0	1.0	0.5	1.0	1.5	1.0	1.5	6.5	2.0	6.5
10	0.0	0.0	0.0	1.0	0.0	1.0	2.0	1.0	2.0	6.5	2.0	6.5
11	0.0	0.0	0.0	1.0	0.0	1.0	1.5	0.5	1.5	6.5	2.0	6.5
12	0.0	0.0	0.0	1.0	1.0	1.0	1.5	0.5	1.5	5.5	3.5	5.5
13	0.0	0.0	0.0	1.0	0.5	1.0	1.5	0.5	1.5	5.5	3.0	5.5
14	0.0	0.0	0.0	1.0	1.0	1.0	2.0	0.5	2.0	6.0	3.0	6.0
15	0.5	0.0	0.5	1.0	0.5	1.0	2.0	1.0	2.0	5.0	3.0	5.0
16	0.5	0.0	0.5	1.0	1.0	1.0	1.5	0.5	1.5	5.5	2.0	5.5
17	0.5	0.5	0.5	1.0	0.0	1.0	5.0	0.5	5.0	6.0	2.5	6.0
18	0.5	0.5	0.5	0.5	0.0	0.5	2.0	1.0	2.0	7.0	2.0	7.0
19	0.5	0.5	0.5	0.5	0.0	0.5	2.0	1.5	2.0	7.5	2.5	7.5
20	1.0	0.5	1.0	0.5	0.0	0.5	2.0	1.0	2.0	6.5	3.5	6.5
21	1.0	0.5	1.0	0.5	0.0	0.5	2.5	1.0	2.5	6.5	3.5	6.5
22	1.0	1.0	1.0	0.5	0.0	0.5	1.0	0.0	1.0	6.0	3.5	6.0
23	1.0	1.0	1.0	1.0	0.5	1.0	2.5	1.0	2.5	7.0	3.5	7.0
24	1.0	0.5	1.0	1.0	0.0	1.0	3.5	1.5	3.5	7.5	3.0	7.5
25	1.0	0.5	1.0	1.0	0.5	1.0	4.0	1.0	4.0	6.0	2.5	6.0
26	1.0	0.5	1.0	1.5	1.0	1.5	4.0	1.5	4.0	6.5	4.0	6.5
27	1.0	0.5	1.0	1.5	0.5	1.5	4.5	1.5	4.5	5.5	4.0	5.5
28	0.5	0.5	0.5	1.0	0.5	1.0	4.5	1.5	4.5	6.0	4.0	6.0
29	---	---	---	0.5	0.0	0.5	4.5	2.0	4.5	7.0	3.5	7.0
30	---	---	---	0.5	0.0	0.5	4.5	1.5	4.5	6.0	3.0	6.0
31	---	---	---	1.0	0.5	1.0	---	---	---	7.5	3.5	7.5
MONTH	1.0	0.0	0.4	1.5	0.0	0.9	5.0	0.0	2.3	7.5	1.5	6.0

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	3.0	7.5	8.5	6.0	7.0	8.0	6.5	7.5	8.0	6.0	7.0
2	6.0	2.5	6.0	9.5	5.5	7.0	8.0	6.5	7.5	7.0	4.0	5.5
3	7.5	3.0	7.5	8.5	6.0	7.5	8.5	6.5	7.5	7.5	6.5	7.0
4	8.0	3.5	8.0	8.0	6.0	7.0	9.0	6.5	7.5	7.5	6.5	7.0
5	6.5	4.0	6.5	10.5	6.0	8.0	9.5	6.0	8.0	8.5	6.5	7.5
6	7.5	4.0	7.5	9.5	6.0	7.5	10.5	6.5	8.5	8.5	7.0	7.5
7	5.5	4.0	5.5	9.5	5.5	7.5	11.0	6.5	8.5	8.0	6.5	7.0
8	6.0	4.0	6.0	11.0	5.5	8.0	11.0	7.5	9.5	7.5	5.0	6.0
9	7.0	4.0	7.0	10.5	6.0	8.0	11.5	7.5	9.5	8.0	6.5	7.5
10	7.5	4.5	7.5	11.5	6.0	8.5	11.5	7.5	9.5	8.0	6.5	7.5
11	7.0	4.5	7.0	11.0	6.0	8.5	11.5	7.5	9.5	8.0	5.5	6.5
12	8.0	4.0	8.0	9.5	7.0	8.0	12.0	8.0	10.0	8.0	6.5	7.5
13	8.5	3.5	8.5	9.0	6.5	7.5	11.5	8.0	10.0	7.0	4.5	6.0
14	9.5	4.0	9.5	9.5	6.0	7.5	11.0	8.0	9.5	7.5	5.5	6.5
15	10.0	4.5	10.0	10.0	6.0	8.0	11.0	8.0	9.5	7.0	5.5	6.0
16	9.5	5.0	9.5	9.0	7.0	8.0	10.5	8.5	9.5	8.0	6.5	7.0
17	10.0	5.0	10.0	10.0	6.5	8.0	10.0	8.5	9.0	7.0	6.5	6.5
18	7.0	5.5	7.0	8.5	6.0	7.5	10.0	7.5	9.0	7.0	5.5	6.0
19	7.0	4.0	7.0	9.5	7.0	8.0	11.5	8.5	9.5	7.0	5.0	6.0
20	8.0	4.0	8.0	10.5	7.5	8.5	10.5	7.5	9.0	6.5	5.0	6.0
21	9.5	4.0	6.5	10.0	7.0	8.5	10.0	8.0	9.0	6.5	4.0	5.5
22	7.5	4.5	6.0	10.5	6.0	8.0	9.5	6.0	8.0	7.0	5.5	6.0
23	8.5	5.0	6.5	11.0	6.0	8.5	10.0	8.0	9.0	7.5	6.0	7.0
24	8.5	4.5	6.5	10.5	7.5	8.5	9.5	7.5	8.5	7.0	5.5	6.0
25	9.0	4.5	7.0	9.0	7.5	8.5	9.0	7.0	8.0	6.0	4.5	5.5
26	10.0	5.0	7.0	9.0	6.0	7.5	9.5	7.0	8.0	5.5	3.0	4.5
27	10.0	5.5	7.5	9.0	6.0	7.5	8.0	5.5	7.0	5.5	5.0	5.0
28	10.0	5.0	7.5	8.0	6.0	7.0	8.5	6.5	7.5	6.5	4.5	5.5
29	10.0	6.0	7.5	8.5	6.5	7.5	8.0	7.0	7.5	6.0	4.0	5.0
30	9.0	6.0	7.5	8.5	6.5	7.5	8.5	7.0	7.5	6.0	4.5	5.0
31	---	---	---	8.5	7.0	7.5	9.0	7.0	8.0	---	---	---
MONTH	10.0	2.5	7.4	11.5	5.5	7.8	12.0	5.5	8.6	8.5	3.0	6.3

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.

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

REVISED RECORDS.-- WRD-AK-00-1: Drainage area.

GAGE.--Water stage recorder. Elevation of gage is 240 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Rain gage recorder at station. GOES satellite telemetry and phone modem at station.

DISCAHRGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4090	7840	2420	1650	e1250	1030	989	1490	7470	11300	12300	9900
2	4180	6820	2370	1640	e1250	1020	980	1610	7750	11300	12000	9520
3	4500	6040	2400	e1640	e1250	1010	965	1740	7820	11400	11800	9200
4	5070	5420	2370	1650	e1240	1010	961	1890	7790	11300	e11800	8980
5	5850	4890	2350	1640	e1240	1020	968	2090	7760	11300	e11800	8810
6	6720	4430	2320	1630	e1230	998	997	2170	7750	11300	e11700	8930
7	7380	4080	2320	1620	e1230	996	995	2230	7900	11300	e11700	9160
8	7790	3850	2300	1590	1220	994	977	2340	7870	11500	e11700	9340
9	8000	3860	2250	1570	1200	994	948	2460	7900	11400	e11600	9650
10	7870	3590	2200	1550	1180	988	943	2620	8010	11600	e11600	9810
11	7820	3310	2170	e1550	e1140	1050	935	2750	8310	11800	e11600	10200
12	7610	3250	2140	e1550	e1140	1050	939	2890	8600	12100	e11500	10400
13	7440	3180	2120	e1530	e1140	1060	935	3040	8910	12300	11500	10600
14	7270	3100	2090	e1510	1180	1090	928	3280	9220	12400	11400	10500
15	7160	3050	2040	1480	1190	1090	924	3570	9450	12400	11500	10400
16	7020	2980	2040	1450	e1150	1100	918	3940	9700	12700	11400	10300
17	6810	2930	2040	e1450	1150	1090	905	4290	9910	12900	11700	10300
18	6570	2930	2000	e1450	1140	1080	900	4600	10300	13000	11600	10400
19	6410	2910	1960	e1430	1140	1080	897	4870	10800	13100	11700	10300
20	6310	2830	1920	e1410	1140	1070	914	5040	11100	13100	11600	10100
21	6170	2750	1900	1380	1120	1070	960	5200	11300	13200	11600	9920
22	6220	2760	e1920	1370	1120	1090	966	5360	11400	13000	11600	9750
23	6540	2600	1880	1350	1120	1050	873	5490	11300	12800	11700	9620
24	7090	2540	1870	1340	1090	1060	915	5600	11200	12800	11200	9400
25	8030	2470	1810	1340	1080	1060	939	5720	11100	12700	11200	9410
26	9510	2430	1790	1330	1070	1030	984	5850	11100	12800	11300	9340
27	11600	2500	1800	e1320	1060	1030	1040	6030	11000	12700	11200	9090
28	13100	2380	1770	e1300	1040	997	1110	6140	11000	12800	11100	8940
29	12300	2370	1730	e1280	---	996	1250	6450	11200	12800	10900	8790
30	10600	2350	1690	e1260	---	1010	1370	6770	11200	12700	10400	8700
31	9170	---	1670	1260	---	985	---	7110	---	12400	9860	---
TOTAL	232200	106440	63650	45520	32500	32198	29325	124630	286120	380200	355560	289760
MEAN	7490	3548	2053	1468	1161	1039	978	4020	9537	12260	11470	9659
MAX	13100	7840	2420	1650	1250	1100	1370	7110	11400	13200	12300	10600
MIN	4090	2350	1670	1260	1040	985	873	1490	7470	11300	9860	8700
AC-FT	460600	211100	126200	90290	64460	63860	58170	247200	567500	754100	705300	574700
CFSM	6.21	2.94	1.70	1.22	0.96	0.86	0.81	3.33	7.91	10.2	9.51	8.01
IN.	7.16	3.28	1.96	1.40	1.00	0.99	0.90	3.84	8.83	11.73	10.97	8.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#

MEAN	6980	4601	2559	1799	1544	1163	1095	3005	8543	13050	11910	9327
MAX	9623	14170	7548	2960	2773	1867	1321	5158	10300	15400	13600	13860
(WY)	2004	2003	2003	2001	2003	2003	2004	2004	2004	2001	2001	2001
MIN	3937	2106	1387	1164	891	870	888	2210	6156	11960	10310	5659
(WY)	2001	2002	2002	1999	1998	1998	2002	2001	1997	1999	1998	2000

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005#	
ANNUAL TOTAL	2011672		1978103			
ANNUAL MEAN	5496		5419		5485	
HIGHEST ANNUAL MEAN					6742	2003
LOWEST ANNUAL MEAN					4742	2000
HIGHEST DAILY MEAN	16100	Jul 30	13200	Jul 21	20300	Nov 27 2002
LOWEST DAILY MEAN	990	Mar 30	873	Apr 23	776	Mar 13 1998
ANNUAL SEVEN-DAY MINIMUM	999	Mar 29	912	Apr 14	792	Mar 9 1998
MAXIMUM PEAK FLOW			13500	Jul 21	21400	Nov 27 2002
MAXIMUM PEAK STAGE			11.79	Jul 21	13.95	Nov 27 2002
INSTANTANEOUS LOW FLOW			a843	Apr 21	b765	Mar 12 1998
ANNUAL RUNOFF (AC-FT)	3990000		3924000		3974000	
ANNUAL RUNOFF (CFSM)	4.56		4.49		4.55	
ANNUAL RUNOFF (INCHES)	62.05		61.02		61.80	
10 PERCENT EXCEEDS	13200		11600		12800	
50 PERCENT EXCEEDS	3770		3250		3200	
90 PERCENT EXCEEDS	1100		1010		1070	

\# See Period of Record; partial year was used in monthly statistics
a Also occurred Apr. 23
b Mar. 12 and 13, 1998 and Apr. 20, 2002
e Estimated

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 mi2.

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

GAGE.--Water stage recorder. Elevation of gage is 230 ft above sea level, from topographic map.

REMARKS.--Record is 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	5100	8000	2650	1860	e1400	e970	1130	2150	8860	12500	13900	10200
2	5090	6950	2590	1850	e1380	e980	1120	2270	9060	12500	13700	9960
3	6100	6300	2580	e1890	e1360	e980	1110	2390	9040	12400	13400	9740
4	6870	5680	2470	1890	1320	e980	1110	2520	8970	12400	13200	9730
5	7370	5100	2440	1860	e1320	e980	1110	2720	9020	12400	13100	9670
6	7710	4580	2420	1840	e1320	e980	1140	2830	9100	12400	13000	9850
7	8090	4210	2430	1800	e1320	e980	1150	2920	9300	12700	13000	10000
8	8330	4000	2430	1770	e1300	e980	1150	3080	9360	12700	12900	10000
9	8490	4000	2380	1740	e1300	e980	1140	3260	9470	12700	13000	10300
10	8370	3820	2340	1710	e1280	1090	1140	3450	9620	12900	12900	10900
11	8280	3580	2300	e1710	e1280	1140	1140	3650	9900	13000	12900	11000
12	8200	3570	2280	e1690	e1280	1150	1140	3880	10100	13300	12900	11100
13	8060	3480	2290	e1670	e1260	1180	1140	4250	10300	13700	12800	11200
14	7870	3370	2260	e1650	e1260	1200	1140	4660	10500	13800	12800	11000
15	7680	3240	2220	1630	e1260	1210	1150	4990	10800	13800	12700	10800
16	7530	3170	2220	1580	e1240	1210	1150	5270	11200	14200	12500	10800
17	7340	3120	2240	e1580	e1240	1210	1140	5550	11500	14400	12600	10800
18	7080	3120	2210	e1580	e1150	1200	1130	5850	12000	14400	12600	10700
19	6950	3080	2190	e1560	e1150	1200	1140	6100	12700	14600	12500	10600
20	6850	3000	2140	e1540	e1150	1190	1190	6310	12800	14700	12300	10400
21	6730	2900	2100	1520	e1100	1180	1240	6490	12700	14600	12300	10200
22	6750	2920	2230	1480	e1100	1180	1300	6710	12800	14700	12300	9950
23	7050	2770	2100	1460	e1100	1170	1290	6850	12600	14400	12500	9870
24	7550	2720	2080	1450	e1100	1170	1370	6990	12400	14300	12300	9880
25	8360	2630	1990	1440	e1100	1170	1430	7110	12200	14300	12200	9740
26	9730	2590	1960	e1440	e1100	1150	1470	7200	12100	14600	12200	9570
27	11700	2650	1980	e1440	e1050	1160	1560	7510	12100	14400	11900	9350
28	13200	2570	1960	e1440	e1050	1140	1670	7840	12200	14600	11600	9520
29	12400	2610	1930	e1420	---	1140	1800	8250	12300	14500	11400	9260
30	10800	2590	1930	e1420	---	1130	2050	8430	12400	14200	11000	9050
31	9310	---	1860	e1400	---	1120	---	8600	---	13900	10500	---
TOTAL	250940	112320	69200	50310	34270	34500	37940	160080	327400	424000	388900	305140
MEAN	8095	3744	2232	1623	1224	1113	1265	5164	10910	13680	12550	10170
MAX	13200	8000	2650	1890	1400	1210	2050	8600	12800	14700	13900	11200
MIN	5090	2570	1860	1400	1050	970	1110	2150	8860	12400	10500	9050
AC-FT	497700	222800	137300	99790	67970	68430	75250	317500	649400	841000	771400	605200
CFSM	5.41	2.50	1.49	1.08	0.82	0.74	0.85	3.45	7.30	9.14	8.39	6.80
IN.	6.24	2.79	1.72	1.25	0.85	0.86	0.94	3.98	8.14	10.54	9.67	7.59

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#

MEAN	7678	5150	2844	1917	1626	1238	1281	3620	9849	14520	12940	9811
MAX	11390	17110	8687	3140	3034	1914	1544	6533	11930	18240	15930	14240
(WY)	2004	2003	2003	2001	2003	2003	2004	2004	2004	2001	2001	2001
MIN	4291	2139	1633	1126	989	926	1010	2456	7701	12580	11020	6196
(WY)	2001	2002	2002	1999	1998	1999	1999	1999	1997	1999	1998	2000

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005#	
ANNUAL TOTAL	2227840		2195000			
ANNUAL MEAN	6087		6014		6061	
HIGHEST ANNUAL MEAN					7798	2003
LOWEST ANNUAL MEAN					5010	2000
HIGHEST DAILY MEAN	17300	Jul 30	14700	Jul 20	a24600	Oct 30 2002
LOWEST DAILY MEAN	b1000	Mar 31	970	Mar 1	c800	Apr 19 1997
ANNUAL SEVEN-DAY MINIMUM	1020	Mar 28	979	Mar 1	836	Apr 1 1999
MAXIMUM PEAK FLOW			15000	Jul 26	27300	Nov 6 2002
MAXIMUM PEAK STAGE			11.11	Jul 26	13.52	Nov 6 2002
ANNUAL RUNOFF (AC-FT)	4419000		4354000		4391000	
ANNUAL RUNOFF (CFSM)	4.07		4.02		4.05	
ANNUAL RUNOFF (INCHES)	55.40		54.58		55.04	
10 PERCENT EXCEEDS	14300		12800		13900	
50 PERCENT EXCEEDS	4090		3820		3540	
90 PERCENT EXCEEDS	1200		1140		1150	

\# See Period of Record; partial year was used in monthly statistics.
a Oct. 30 and Nov. 7
b Mar. 31 to Apr. 3
c Apr. 19, 1997 and Apr. 6-7, 1999
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, on left bank 80 feet downstream of bridge on Sterling Highway, 1.0 mi southwest of Soldotna.

DRAINAGE AREA.--1,951 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--May 1965 to current year.

REVISED RECORDS.--WRD AK-00-1 drainage area.

GAGE.--Water-stage recorder. Datum of gage is 35.34 ft above sea level. Prior to May 5, 2005, water-stage recorder near center of span on downstream side of bridge on Sterling Highway, same datum. Prior to May 1, 1997, non-recording gage near center of span on downstream side of bridge on Sterling Highway, 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6130	8680	3350	e2000	e1450	e1100	1350	2870	9040	12700	14000	10300
2	6190	7480	3310	e1950	e1450	e1100	1340	2950	9350	12800	13900	10000
3	6850	6950	3050	e1950	e1450	e1100	1310	2990	9430	12800	13800	9860
4	7980	6200	2850	e1900	e1400	e1100	1310	3030	9400	12800	13700	9960
5	8410	5580	2830	e1900	e1400	e1100	1380	3180	9370	12800	13500	9930
6	8700	5090	e2650	e1850	e1400	e1100	1470	3380	9450	12900	13300	10000
7	9080	4710	e2500	e1850	e1350	e1100	1530	3400	9560	13100	13200	10100
8	9360	4520	e2500	e1800	e1350	e1100	1560	3540	9720	13000	13200	10000
9	9550	4490	e2500	e1800	e1350	e1050	1630	3740	9930	13100	13200	10400
10	9410	4660	e2400	e1750	e1350	e1150	1620	3890	10100	13200	13100	11000
11	9260	4300	e2400	e1750	e1350	e1200	1610	4050	10200	13200	13200	11200
12	9190	4270	e2400	e1700	e1300	e1250	1630	4190	10400	13400	13200	11500
13	9000	4170	e2350	e1700	e1300	e1300	1660	4490	10600	13900	13100	11400
14	8770	4110	e2350	e1700	e1300	e1300	1650	4820	10900	14000	13100	11200
15	8580	3960	e2350	e1700	e1300	e1300	1660	5130	11100	13900	13000	11100
16	8400	3860	e2300	e1700	e1300	e1300	1650	5430	11400	14100	13000	11300
17	8200	3780	e2300	e1650	e1300	e1300	1640	5690	11600	14400	13100	11400
18	7940	3810	e2300	e1650	e1250	e1350	1580	5990	12100	14300	13100	11200
19	7780	3760	e2250	e1650	e1250	e1350	1600	6250	12900	14400	12700	11000
20	7680	3670	e2250	e1600	e1200	e1350	1670	6480	13000	14700	12400	10600
21	7520	3500	e2200	e1600	e1200	e1350	1700	6670	13000	14500	12500	10400
22	7440	3570	e2200	e1600	e1200	e1350	1850	6900	13000	14700	12300	10400
23	7760	3460	e2200	e1600	e1200	e1350	1860	7100	13000	14400	12600	10400
24	8170	3410	e2200	e1550	e1150	e1350	1960	7280	12900	14300	12400	10300
25	8800	3200	e2200	e1550	e1150	e1350	2080	7450	12700	14400	12200	10100
26	10000	3080	e2200	e1500	e1150	e1350	2080	7610	12600	14400	12000	9830
27	12000	3230	e2200	e1500	e1150	e1350	2160	7900	12600	14500	11900	9820
28	13800	3310	e2150	e1500	e1100	e1350	2280	8270	12700	14500	11800	9820
29	13500	3280	e2100	e1500	---	1370	2450	8500	12600	14400	11700	9480
30	11800	3080	e2050	e1500	---	1390	2730	8660	12600	14300	11200	9240
31	10100	---	e2000	e1500	---	1410	---	8760	---	14200	10800	---
TOTAL	277350	131170	74890	52450	36100	38970	52000	170590	337250	428100	396200	313240
MEAN	8947	4372	2416	1692	1289	1257	1733	5503	11240	13810	12780	10440
MAX	13800	8680	3350	2000	1450	1410	2730	8760	13000	14700	14000	11500
MIN	6130	3080	2000	1500	1100	1050	1310	2870	9040	12700	10800	9240
AC-FT	550100	260200	148500	104000	71600	77300	103100	338400	668900	849100	785900	621300
CFSM	4.59	2.24	1.24	0.87	0.66	0.64	0.89	2.82	5.76	7.08	6.55	5.35
IN.	5.29	2.50	1.43	1.00	0.69	0.74	0.99	3.25	6.43	8.16	7.55	5.97
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1965 - 2005, BY WATER YEAR (WY)#												
MEAN	7429	3835	2407	1900	1667	1360	1583	3328	8745	13580	14320	11510
MAX	14370	17350	9172	4290	4575	2696	2836	7216	12780	18740	24890	21280
(WY)	1970	2003	2003	1981	1981	1981	1980	2004	2004	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

\# See Period of Record; partial year was used in monthly statistics.
e Estimated

15266300 KENAI RIVER AT SOLDOTNA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1965 - 2005#	
ANNUAL TOTAL	2437080		2308310			
ANNUAL MEAN	6659		6324		6017	
HIGHEST ANNUAL MEAN					8810	1977
LOWEST ANNUAL MEAN					4002	1973
HIGHEST DAILY MEAN	17600	Jul 30	a14700	Jul 20	41400	Sep 24 1995
LOWEST DAILY MEAN	1100	Mar 30	1050	Mar 9	b770	Apr 1 1966
ANNUAL SEVEN-DAY MINIMUM	1140	Mar 24	1090	Mar 3	774	Apr 1 1966
MAXIMUM PEAK FLOW			a15000	Jul 20	42200	Sep 24 1995
MAXIMUM PEAK STAGE			9.71	Jul 22	14.50	Sep 24 1995
MAXIMUM PEAK STAGE					c22.62	Jan 18 1969
INSTANTANEOUS LOW FLOW					770	Apr 1 1966
ANNUAL RUNOFF (AC-FT)	4834000		4579000		4359000	
ANNUAL RUNOFF (CFSM)	3.41		3.24		3.08	
ANNUAL RUNOFF (INCHES)	46.47		44.01		41.91	
10 PERCENT EXCEEDS	15200		13100		14200	
50 PERCENT EXCEEDS	4740		4300		3320	
90 PERCENT EXCEEDS	1350		1330		1200	

\# See Period of Record; partial year was used in monthly statistics.
a July 20 and 22
b Apr. 1 to Apr. 4, 1966
c Backwater from ice

15271000 SIXMILE CREEK NEAR HOPE

LOCATION.--Lat 60°49'15", long 149°25'31", in SW$^1/_4$ SE$^1/_4$ 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 for estimated daily discharges, which are poor. Rain gage at station. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3,500 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)
May 14	0830	*4590	*11.85

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1080	316	286	e180	e150	e130	152	e1450	2060	1960	931	547
2	1150	268	284	e180	e150	e130	151	1390	1910	1660	1030	505
3	2020	317	264	e190	e150	e130	150	1340	1820	1540	1190	504
4	1610	317	242	e200	e150	e130	149	1330	1850	1450	1080	583
5	1390	270	e230	e190	e150	e130	154	1280	2060	1420	973	631
6	1080	223	e220	e180	e150	e130	205	1180	2080	1460	919	830
7	900	364	e220	e180	e140	e130	202	1200	2230	1460	898	797
8	783	324	e230	e180	e140	e140	189	1290	2220	1400	891	694
9	704	298	e240	e180	e140	e150	187	1470	2570	1370	892	782
10	645	309	264	e170	e140	e200	188	1690	2960	1360	894	1130
11	583	314	259	e170	e140	233	192	1750	2650	1340	891	924
12	638	313	242	e170	e140	207	199	2300	2410	1300	884	974
13	635	311	240	e170	e140	213	205	3010	2260	1280	827	873
14	703	297	226	e170	e170	206	215	3940	2220	1220	787	802
15	639	285	231	e170	e160	196	225	2940	2350	1130	755	764
16	600	284	235	e170	e140	187	236	2350	2570	1130	718	839
17	561	278	234	e170	e140	181	242	2050	2720	1040	721	1090
18	519	276	299	e160	e140	177	249	2030	2940	974	736	988
19	520	282	311	e160	e130	175	250	2040	2620	1090	690	854
20	484	282	270	e160	e130	172	270	2150	2100	1030	664	786
21	464	273	257	e160	e130	168	317	2290	1920	962	694	722
22	432	269	264	e160	e130	168	406	2340	1880	888	664	735
23	427	271	270	e180	e130	163	478	2290	1660	856	968	935
24	412	275	232	e160	e130	161	614	2240	1540	869	819	1100
25	385	268	e200	e150	e130	159	751	2190	1490	929	681	908
26	386	261	e200	e150	e130	158	962	2330	1500	1020	631	829
27	387	261	e190	e150	e130	158	1150	2820	1600	1050	592	1160
28	383	318	e190	e150	e130	156	1350	2870	1660	981	569	1250
29	375	289	e190	e150	---	154	e1450	2670	1660	877	604	1070
30	351	279	e180	e150	---	154	e1550	2340	1700	822	556	914
31	313	---	e180	e150	---	156	---	2140	---	919	544	---
TOTAL	21559	8692	7380	5210	3930	5102	13038	64700	63210	36787	24693	25520
MEAN	695	290	238	168	140	165	435	2087	2107	1187	797	851
MAX	2020	364	311	200	170	233	1550	3940	2960	1960	1190	1250
MIN	313	223	180	150	130	130	149	1180	1490	822	544	504
AC-FT	42760	17240	14640	10330	7800	10120	25860	128300	125400	72970	48980	50620
CFSM	2.97	1.24	1.02	0.72	0.60	0.70	1.86	8.92	9.00	5.07	3.40	3.64
IN.	3.43	1.38	1.17	0.83	0.62	0.81	2.07	10.29	10.05	5.85	3.93	4.06
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1979 - 2005, BY WATER YEAR (WY)#												
MEAN	921	475	296	236	189	158	267	1369	2667	2119	1226	959
MAX	1777	1735	687	528	433	240	435	2344	3957	3986	2699	1556
(WY)	1981	2003	2003	1981	2003	1984	2005	2004	2001	1980	1981	1999
MIN	500	221	198	133	113	106	119	748	1736	1131	596	362
(WY)	1998	1986	1999	1999	1999	1999	1985	1985	1989	2004	2004	2004

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

15271000 SIXMILE CREEK NEAR HOPE—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1979 - 2005#	
ANNUAL TOTAL	275568		279821			
ANNUAL MEAN	753		767		914	
HIGHEST ANNUAL MEAN					1335	1980
LOWEST ANNUAL MEAN					675	1986
HIGHEST DAILY MEAN	3600	May 24	3940	May 14	7570	Jul 12 1980
LOWEST DAILY MEAN	a150	Mar 31	b130	Feb 19	c80	Apr 1 1986
ANNUAL SEVEN-DAY MINIMUM	153	Mar 27	130	Feb 19	80	Apr 1 1986
MAXIMUM PEAK FLOW			4590	May 14	10800	Oct 24 2002
MAXIMUM PEAK STAGE			11.85	May 14	13.56	Oct 24 2002
INSTANTANEOUS LOW FLOW					d29	Nov 26 1979
ANNUAL RUNOFF (AC-FT)	546600		555000		662500	
ANNUAL RUNOFF (CFSM)	3.22		3.28		3.91	
ANNUAL RUNOFF (INCHES)	43.81		44.48		53.10	
10 PERCENT EXCEEDS	2280		2030		2390	
50 PERCENT EXCEEDS	317		432		522	
90 PERCENT EXCEEDS	181		150		146	

\# See Period of Record; partial years used in monthly statistics
a Mar. 31 to Apr. 1
b Feb. 19 to Mar. 7
c Apr. 1 to Apr. 9, 1986
d 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	Date	Time	Discharge (ft^3/s)	Gage Height
July 26	0100	*5970	*8.03	Sept. 17	1315	4860	7.49

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	755	171	301	87	103	72	62	492	1460	1690	1160	833
2	1230	158	312	83	e95	63	57	462	1160	1570	1510	743
3	4020	177	255	116	e90	63	54	411	1010	1510	2660	755
4	3980	166	208	214	e85	66	57	395	993	1450	2900	2180
5	2890	144	174	194	78	85	76	406	1090	1430	2160	3240
6	1840	128	156	162	74	111	190	438	1140	1590	1730	3050
7	1150	133	156	137	75	141	273	428	1230	1660	1590	2240
8	815	144	140	118	94	241	233	415	1450	1750	1560	1450
9	755	148	124	104	110	391	213	422	2410	1780	1550	1340
10	866	270	122	91	145	663	184	455	3220	1810	1560	1850
11	716	475	123	96	137	963	160	480	2470	1790	1660	1410
12	1370	500	117	107	110	646	140	788	2000	1900	1770	1370
13	1090	459	141	108	93	468	126	1940	1620	2950	1660	1200
14	891	387	147	98	100	326	114	3260	1450	2910	1480	1010
15	665	306	137	87	116	247	105	2390	1460	2170	1370	994
16	492	262	163	78	99	191	100	1700	1560	2390	1350	2240
17	390	263	235	70	84	157	96	1200	1760	3360	1510	4220
18	320	303	690	63	72	135	119	960	2060	2380	2130	2830
19	287	361	856	58	65	116	141	866	2030	2090	1880	1550
20	250	390	537	66	62	103	148	836	1670	1870	1610	1040
21	218	309	367	95	83	94	171	840	1460	1810	1440	794
22	196	283	358	235	97	97	429	855	1420	1560	1190	784
23	184	341	310	553	104	91	469	864	1330	1440	2280	1220
24	177	385	249	459	97	82	414	944	1310	1500	2800	1650
25	163	360	203	347	106	75	378	1000	1360	3460	1780	1090
26	175	287	174	252	102	68	352	1280	1410	4720	1320	824
27	189	253	156	193	88	67	367	2970	1450	2860	1130	2060
28	259	368	136	156	79	70	387	4010	1480	2330	1010	2830
29	262	331	117	134	---	68	436	3690	1550	1670	912	1980
30	226	264	105	119	---	63	483	2600	1670	1330	875	1030
31	195	---	95	104	---	64	---	2020	---	1230	867	---
TOTAL	27016	8526	7364	4784	2643	6087	6534	39817	47683	63960	50404	49807
MEAN	871	284	238	154	94.4	196	218	1284	1589	2063	1626	1660
MAX	4020	500	856	553	145	963	483	4010	3220	4720	2900	4220
MIN	163	128	95	58	62	63	54	395	993	1230	867	743
AC-FT	53590	16910	14610	9490	5240	12070	12960	78980	94580	126900	99980	98790
CFSM	21.5	7.02	5.87	3.81	2.33	4.85	5.38	31.7	39.2	50.9	40.1	41.0
IN.	24.81	7.83	6.76	4.39	2.43	5.59	6.00	36.57	43.80	58.75	46.30	45.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1989 - 2005, BY WATER YEAR (WY)#

MEAN	745	302	168	147	134	89.5	228	644	1479	2100	2001	1716
MAX	2145	1456	482	460	407	196	393	1284	1728	2518	3164	3583
(WY)	2004	2003	2003	2001	2003	2005	1995	2005	1990	1990	1989	1995
MIN	136	90.5	26.3	26.0	26.0	26.0	36.7	286	1178	1714	1409	649
(WY)	1997	1991	1991	1991	1991	1991	2002	2001	2001	1999	1998	1992

\# See Period of Record; partial year was used in monthly statistics.
e Estimated

15272280 PORTAGE CREEK AT PORTAGE LAKE OUTLET NEAR WHITTIER—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1989 - 2005#	
ANNUAL TOTAL	279880		314625			
ANNUAL MEAN	765		862		806	
HIGHEST ANNUAL MEAN					1010	2003
LOWEST ANNUAL MEAN					656	2000
HIGHEST DAILY MEAN	5740	Jul 27	4720	Jul 26	10700	Sep 20 1995
LOWEST DAILY MEAN	32	Jan 19	54	Apr 3	a26	Dec 5 1990
ANNUAL SEVEN-DAY MINIMUM	38	Mar 24	61	Mar 29	26	Dec 5 1990
MAXIMUM PEAK FLOW			5970	Jul 26	13000	Sep 20 1995
MAXIMUM PEAK STAGE			8.03	Jul 26	10.66	Sep 20 1995
INSTANTANEOUS LOW FLOW			51	Apr 4	26	Dec 5 1990
ANNUAL RUNOFF (AC-FT)	555100		624100		584100	
ANNUAL RUNOFF (CFSM)	18.9		21.3		19.9	
ANNUAL RUNOFF (INCHES)	257.07		288.99		270.51	
10 PERCENT EXCEEDS	1850		2110		2000	
50 PERCENT EXCEEDS	376		414		328	
90 PERCENT EXCEEDS	71		88		55	

See Period of Record; partial year was used in monthly statistics.
a From Dec. 5, 1990 to Mar. 31, 1991

15272380 TWENTYMILE RIVER BELOW GLACIER RIVER NEAR PORTAGE

LOCATION.--Lat 60°53'53", long 148°55'19", in NE¼ NW¼ SE¼ sec. 4, T. 9 N., R. 3 E. (Seward D-6 quad), Hydrologic Unit 19020401, on right bank, 0.1 miles downstream from Glacier River, 4.0 miles upstream from mouth at Seward Highway, and 6.0 miles northeast of Portage.

DRAINAGE AREA.--141 mi^2.

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WDR AK-02-1: 2001.

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

REMARKS.--Records good except for October 1 to April 20, which are poor. Rain gage at station. GOES satellite telemetry at station.

WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2080	364	784	e250	e250	184	162	1810	3130	3720	2320	1300
2	2380	342	796	e360	e230	179	170	1590	2690	3450	2570	1100
3	7230	413	688	417	e230	180	162	1440	2410	3080	3860	1190
4	7060	371	588	640	e210	195	146	1370	2420	2910	4170	2500
5	5030	340	583	511	e210	241	165	1320	2650	2970	3430	4330
6	3150	e310	540	431	e350	309	419	1250	2620	3200	3020	5940
7	2460	e290	402	432	465	360	546	1260	2740	3200	2920	4840
8	1720	330	384	354	498	656	442	1350	2930	3220	2900	2990
9	1380	311	323	e310	508	797	453	1460	4700	3330	2950	2860
10	1320	693	313	e290	527	1270	437	1620	6990	3460	2950	4080
11	1170	903	296	e270	466	1330	370	1660	5180	3430	3030	2900
12	1650	780	297	e300	426	1010	311	2530	4090	3630	3280	2900
13	1660	805	356	e330	402	918	280	4840	3500	4050	3160	2390
14	1640	730	422	e300	450	766	271	7200	3400	3960	2840	1930
15	1310	674	342	e280	626	660	273	5310	3560	3470	2530	1750
16	985	674	478	e260	494	532	273	3900	3830	3870	2520	3120
17	793	678	579	e230	437	446	273	3010	4210	4660	2460	5760
18	728	727	1200	e200	393	386	332	2570	4830	3790	2950	4230
19	678	830	1690	e190	352	357	356	2430	4840	3590	2830	2610
20	607	866	1230	e250	262	331	367	2440	3700	3330	2550	1890
21	600	740	881	616	288	300	425	2410	3200	3210	2520	1470
22	594	719	1020	1120	279	299	849	2420	3120	2820	1960	1460
23	482	787	938	1830	274	262	904	2470	2720	2640	3680	2130
24	495	761	723	735	252	216	997	2540	2720	2680	4630	3320
25	412	746	706	585	277	202	1060	2580	2830	4240	3010	2260
26	386	611	689	486	273	205	1200	2820	2900	6630	2160	1590
27	445	562	473	e410	232	204	1380	4650	2990	4610	1790	2340
28	461	860	463	e360	199	190	1500	6110	3110	3500	1530	3730
29	584	728	e380	e310	---	181	1720	5810	3260	2660	1460	3000
30	436	674	e320	286	---	175	1860	4530	3400	2230	1390	1870
31	400	---	e270	252	---	163	---	3800	---	2730	1350	---
TOTAL	50326	18619	19154	13595	9860	13504	18103	90500	104670	108270	84720	83780
MEAN	1623	621	618	439	352	436	603	2919	3489	3493	2733	2793
MAX	7230	903	1690	1830	626	1330	1860	7200	6990	6630	4630	5940
MIN	386	290	270	190	199	163	146	1250	2410	2230	1350	1100
MED	985	685	540	330	319	300	395	2470	3160	3430	2840	2560
AC-FT	99820	36930	37990	26970	19560	26790	35910	179500	207600	214800	168000	166200
CFSM	11.5	4.40	4.38	3.11	2.50	3.09	4.28	20.7	24.7	24.8	19.4	19.8
IN.	13.28	4.91	5.05	3.59	2.60	3.56	4.78	23.88	27.62	28.56	22.35	22.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)#

MEAN	2151	925	620	440	418	212	397	1634	3079	3526	3411	2095
MAX	2883	2496	906	735	932	436	603	2919	3509	4349	4603	2793
(WY)	2003	2003	2003	2002	2003	2005	2005	2005	2004	2004	2003	2005
MIN	1235	140	195	153	127	77.1	121	796	2513	2796	2700	1288
(WY)	2002	2004	2004	2004	2002	2002	2002	2001	2002	2002	2002	2004

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005#	
ANNUAL TOTAL	557746		615101			
ANNUAL MEAN	1524		1685		1595	
HIGHEST ANNUAL MEAN					1880	2003
LOWEST ANNUAL MEAN					1263	2002
HIGHEST DAILY MEAN	9490	Jul 27	7230	Oct 3	12900	Oct 3 2003
LOWEST DAILY MEAN	a36	Mar 27	146	Apr 4	a36	Mar 27 2004
ANNUAL SEVEN-DAY MINIMUM	37	Mar 25	163	Mar 30	37	Mar 25 2004
MAXIMUM PEAK FLOW			8680	Oct 4	14400	Oct 3 2003
MAXIMUM PEAK STAGE			22.79	Oct 4	25.88	Oct 3 2003
ANNUAL RUNOFF (AC-FT)	1106000		1220000		1156000	
ANNUAL RUNOFF (CFSM)	10.8		12.0		11.3	
ANNUAL RUNOFF (INCHES)	147.15		162.28		153.73	
10 PERCENT EXCEEDS	3750		3790		3710	
50 PERCENT EXCEEDS	786		1010		891	
90 PERCENT EXCEEDS	110		270		136	

\# See Period of Record; partial year was used in monthly statistics.
a Mar. 27-30, 2004
e Estimated

15272380 TWENTYMILE RIVER BELOW GLACIER RIVER NEAR PORTAGE—Continued

WATER-QUALITY RECORDS

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

PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: April 2002 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 April 20. No variation more than 0.1°C was found within the cross section. The variation found between mean stream temperature and sensor temperature was less than 0.2°C. Heavy shore ice occurs near the gage.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 11.5°C, July 15, 2005; Minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 11.5°C, July 15; Minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Sample location, cross section ft from lt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Sampler type, code (84164)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
APR									
20...	1413	130	13.0	15.49	367	10	8010	3.7	8.0
20...	1415	130	29.0	15.49	367	10	8010	3.7	8.0
20...	1417	130	65.0	15.49	367	10	8010	3.7	8.0
20...	1419	130	91.0	15.49	367	10	8010	3.6	8.0
20...	1421	130	117	15.49	367	10	8010	3.6	8.0

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	5.5	4.0	4.5	2.0	0.0	1.0	2.0	1.5	2.0	0.0	0.0	0.0
2	5.0	3.5	4.5	0.5	0.0	0.5	1.5	1.5	1.5	0.5	0.0	0.0
3	5.0	4.5	5.0	1.5	0.0	1.0	1.5	0.0	1.0	1.0	0.5	0.5
4	5.0	4.5	4.5	1.5	0.5	0.5	0.0	0.0	0.0	0.5	0.5	0.5
5	5.0	4.0	4.5	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
6	5.5	4.0	4.5	0.0	0.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0
7	5.5	4.0	4.5	0.5	0.0	0.0	1.0	0.5	0.5	0.0	0.0	0.0
8	5.0	4.0	4.5	1.0	0.0	0.5	0.5	0.0	0.5	0.0	0.0	0.0
9	5.0	4.0	4.5	1.0	0.0	0.5	0.5	0.0	0.0	0.0	0.0	0.0
10	5.0	4.0	4.5	1.0	0.5	1.0	0.5	0.0	0.0	0.0	0.0	0.0
11	5.0	4.0	4.5	1.5	1.0	1.0	0.5	0.5	0.5	0.0	0.0	0.0
12	5.0	4.5	4.5	1.5	1.5	1.5	0.5	0.5	0.5	0.0	0.0	0.0
13	5.0	4.0	4.5	2.0	1.5	1.5	1.0	0.5	1.0	0.0	0.0	0.0
14	5.5	4.0	4.5	1.5	0.5	1.0	0.5	0.5	0.5	0.0	0.0	0.0
15	4.5	3.5	4.0	2.0	0.5	1.0	1.5	0.5	1.0	0.0	0.0	0.0
16	4.5	3.5	4.0	2.0	1.5	1.5	1.5	1.0	1.0	0.0	0.0	0.0
17	4.0	2.5	3.0	1.5	0.5	1.0	1.5	1.0	1.5	0.0	0.0	0.0
18	3.5	2.0	3.0	1.5	1.5	1.5	1.0	1.0	1.0	0.0	0.0	0.0
19	4.0	3.5	3.5	2.0	1.0	1.5	1.0	1.0	1.0	0.0	0.0	0.0
20	4.0	3.0	3.5	1.5	1.0	1.5	1.0	0.5	1.0	0.0	0.0	0.0
21	4.0	3.0	3.5	1.5	1.5	1.5	1.0	0.5	1.0	0.0	0.0	0.0
22	3.0	2.0	2.5	2.0	1.5	1.5	1.5	1.0	1.5	0.0	0.0	0.0
23	3.0	2.5	3.0	2.0	2.0	2.0	1.5	0.5	1.0	0.5	0.0	0.0
24	3.5	3.0	3.0	2.0	1.5	2.0	0.5	0.0	0.0	0.5	0.0	0.0
25	3.0	1.5	2.5	1.5	0.5	1.5	0.0	0.0	0.0	0.5	0.0	0.5
26	4.0	2.5	3.0	1.5	1.0	1.0	0.0	0.0	0.0	0.5	0.0	0.5
27	3.5	2.5	3.0	2.5	1.5	2.0	0.5	0.0	0.0	0.0	0.0	0.0
28	3.5	3.0	3.5	2.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
29	3.5	3.0	3.0	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0
30	3.0	2.0	2.5	1.5	1.0	1.5	0.0	0.0	0.0	0.5	0.0	0.5
31	2.5	1.5	2.0	---	---	---	0.0	0.0	0.0	0.5	0.0	0.0
MONTH	5.5	1.5	3.7	2.5	0.0	1.1	2.0	0.0	0.6	1.0	0.0	0.1

15272380 TWENTYMILE RIVER BELOW GLACIER RIVER NEAR PORTAGE—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	1.0	0.0	0.5	5.0	0.5	2.5	5.0	2.5	3.5
2	0.0	0.0	0.0	1.0	0.5	0.5	3.5	0.0	1.5	7.0	2.0	4.0
3	0.0	0.0	0.0	0.5	0.0	0.5	3.5	0.5	1.5	7.5	2.0	4.5
4	0.0	0.0	0.0	1.5	0.5	1.0	2.5	1.0	1.5	6.5	3.0	4.5
5	0.0	0.0	0.0	1.0	0.5	1.0	3.0	1.5	2.0	5.5	3.0	4.0
6	0.0	0.0	0.0	1.0	0.5	0.5	2.5	1.0	1.5	6.0	3.5	4.5
7	0.0	0.0	0.0	1.0	0.5	1.0	3.0	0.5	1.5	8.0	3.0	5.5
8	0.0	0.0	0.0	0.5	0.5	0.5	3.0	1.0	2.0	8.5	3.0	5.5
9	0.0	0.0	0.0	1.0	0.5	0.5	5.0	1.0	3.0	8.5	3.0	5.5
10	0.0	0.0	0.0	0.5	0.5	0.5	4.5	1.0	2.5	8.5	3.0	5.5
11	0.0	0.0	0.0	1.0	0.5	0.5	6.0	1.0	3.0	8.0	3.0	5.5
12	0.0	0.0	0.0	1.5	0.5	1.0	6.0	0.5	3.0	5.5	4.5	5.0
13	0.0	0.0	0.0	1.5	1.0	1.0	6.5	0.5	3.0	5.0	4.0	4.5
14	0.0	0.0	0.0	3.0	0.5	1.5	5.0	1.0	3.0	6.5	3.5	4.5
15	0.0	0.0	0.0	2.5	0.5	1.5	6.5	1.0	3.5	5.5	4.0	4.5
16	0.0	0.0	0.0	3.5	0.5	1.5	6.5	1.0	3.5	7.5	3.5	5.0
17	0.0	0.0	0.0	3.0	0.0	1.5	7.0	1.0	3.5	6.5	4.0	5.0
18	0.0	0.0	0.0	3.5	0.0	1.5	4.0	2.0	2.5	8.5	3.0	5.5
19	0.0	0.0	0.0	3.0	0.5	1.5	4.0	2.0	2.5	8.5	3.5	5.5
20	0.5	0.0	0.0	2.0	0.5	1.0	4.5	2.5	3.5	7.5	4.0	5.5
21	0.5	0.0	0.5	2.5	0.5	1.5	5.0	2.0	3.5	7.5	4.5	5.5
22	0.5	0.5	0.5	1.0	0.0	0.5	3.0	2.0	2.5	7.0	4.0	5.5
23	1.0	0.5	0.5	4.0	0.5	2.0	5.0	2.0	3.0	8.5	3.5	6.0
24	1.0	0.0	0.5	3.0	0.0	1.5	5.5	2.0	3.5	7.0	4.5	5.5
25	1.0	0.5	0.5	2.0	0.0	1.0	6.5	1.0	3.5	8.0	4.0	6.0
26	1.0	0.0	0.5	4.0	1.0	2.5	6.5	1.5	3.5	6.0	4.5	5.5
27	1.0	0.0	0.5	2.5	0.5	1.5	6.5	1.5	3.5	6.0	4.5	5.0
28	0.5	0.0	0.0	2.0	0.0	1.0	7.0	1.5	4.0	6.5	4.5	5.0
29	---	---	---	3.0	0.0	1.5	7.0	2.0	4.0	6.5	4.0	5.0
30	---	---	---	3.0	0.0	1.5	7.5	2.0	4.0	6.0	4.0	5.5
31	---	---	---	4.5	1.0	2.5	---	---	---	8.0	4.5	6.0
MONTH	1.0	0.0	0.1	4.5	0.0	1.2	7.5	0.0	2.9	8.5	2.0	5.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	4.5	6.0	7.5	6.0	7.0	6.5	5.5	6.0	8.5	5.5	6.5
2	9.0	4.0	6.5	9.0	6.0	7.0	7.0	5.5	6.0	7.5	4.5	6.0
3	9.5	4.0	6.5	8.5	6.0	7.0	6.5	5.0	6.0	6.5	5.5	6.0
4	10.0	4.0	6.5	10.0	6.0	7.5	7.0	5.0	6.0	6.0	5.0	5.5
5	9.0	4.0	6.5	10.5	6.0	7.5	9.0	5.5	6.5	6.0	4.5	5.5
6	9.0	4.5	6.5	11.0	5.5	8.0	9.5	5.5	7.0	6.5	5.0	5.5
7	6.5	5.0	5.5	10.5	6.0	8.0	9.5	5.5	7.0	7.5	5.0	6.0
8	6.5	5.0	5.5	11.0	6.0	8.0	9.5	5.5	7.0	7.5	5.0	6.0
9	5.5	4.5	5.0	10.5	6.0	8.0	10.0	5.5	7.5	6.5	5.5	6.0
10	8.0	4.5	6.0	11.0	6.5	8.5	10.0	5.5	7.5	8.0	5.5	6.5
11	6.5	5.0	6.0	11.0	6.5	8.5	9.5	6.0	7.5	8.0	5.0	6.0
12	8.5	4.5	6.5	8.5	6.5	7.5	9.5	5.5	7.5	6.5	5.5	6.0
13	9.5	4.5	7.0	7.5	6.0	6.5	9.5	5.5	7.0	8.0	5.0	6.0
14	10.0	4.5	7.0	9.5	5.5	7.5	9.0	5.5	7.0	7.5	5.0	6.0
15	10.0	5.0	7.5	11.5	6.0	8.0	9.0	6.0	7.0	6.0	5.5	5.5
16	10.5	5.5	7.5	8.5	6.0	7.0	8.5	6.0	7.0	5.5	5.0	5.5
17	11.0	5.0	7.5	9.0	5.5	7.0	7.0	6.0	6.5	6.0	4.5	5.5
18	8.5	6.0	6.5	8.5	6.0	7.5	7.0	5.5	6.0	6.5	5.0	5.5
19	8.0	5.0	6.5	9.0	6.0	7.5	7.5	5.5	6.5	7.0	4.5	5.5
20	9.0	5.0	6.5	10.0	6.0	7.5	8.5	6.0	7.0	7.0	4.5	5.5
21	10.0	4.5	7.0	10.5	6.0	8.0	6.5	5.5	6.0	6.5	4.0	5.5
22	7.5	5.5	6.5	10.0	5.5	7.5	8.0	5.5	6.5	6.0	5.0	5.5
23	9.5	5.0	6.5	10.5	6.0	8.0	7.0	6.0	6.5	6.0	5.0	5.5
24	10.0	4.5	7.0	8.0	6.5	7.5	8.0	5.5	6.5	6.0	5.0	5.5
25	10.0	5.5	7.5	7.0	6.0	6.5	7.5	5.5	6.5	6.0	5.0	5.5
26	10.0	5.5	7.5	7.5	5.5	6.5	8.5	5.0	6.5	6.0	4.5	5.0
27	10.0	5.5	7.5	7.5	6.0	7.0	8.5	5.0	6.5	5.5	5.0	5.0
28	10.5	5.5	7.5	7.0	5.5	6.5	7.0	5.0	6.0	6.0	4.5	5.0
29	10.5	6.0	8.0	6.0	5.5	6.0	7.5	5.5	6.0	6.5	4.5	5.0
30	9.5	6.0	7.5	6.5	5.5	6.0	7.5	5.0	6.0	6.0	4.5	5.0
31	---	---	---	7.0	5.5	6.0	7.0	5.0	6.0	---	---	---
MONTH	11.0	4.0	6.7	11.5	5.5	7.3	10.0	5.0	6.6	8.5	4.0	5.6

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.--89.5 mi^2.

PERIOD OF RECORD.--October 1946 to current year.

REVISED RECORDS.--WSP 1936: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. 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 2005 was 5.50 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	650	131	85	e42	e42	32	29	312	519	387	322	190
2	532	e90	85	e43	e39	e30	29	300	502	379	294	181
3	520	e78	75	e47	e35	33	29	316	477	376	266	175
4	503	e72	e37	e51	e36	32	29	351	469	347	245	181
5	449	e68	e25	e57	e37	32	29	324	494	323	225	180
6	394	e74	e42	e65	e38	32	29	316	513	313	209	247
7	348	e84	e55	e72	e36	32	29	335	520	306	195	301
8	313	e91	e65	e68	e31	33	29	372	505	299	183	276
9	288	e105	e46	e72	e34	32	30	430	496	298	174	333
10	264	e113	e42	e57	e38	33	30	489	507	275	165	616
11	233	e111	e45	e58	e37	33	31	521	514	282	158	545
12	212	108	e61	e48	e36	33	31	528	511	268	154	541
13	213	104	e72	e36	e37	35	31	564	493	269	150	492
14	220	101	e64	e47	e36	34	30	621	491	250	145	435
15	208	99	e62	e64	e37	32	32	621	503	238	141	400
16	193	97	e69	e71	e37	32	33	582	533	239	137	383
17	181	95	e72	e62	e36	31	33	544	550	232	135	348
18	171	93	e75	e67	e36	31	33	534	591	217	134	313
19	177	92	e71	e58	36	31	34	550	598	246	154	286
20	169	90	e61	e50	36	31	42	572	543	226	135	270
21	173	88	e59	e56	34	31	49	617	484	214	161	252
22	163	87	e78	e53	34	31	66	621	447	207	167	260
23	166	86	e93	e52	34	31	83	604	413	197	261	327
24	162	85	e60	e57	33	30	90	593	385	188	292	529
25	154	83	e25	e55	33	30	91	587	366	185	263	479
26	159	82	e29	e50	33	30	104	585	358	190	235	429
27	163	84	e63	e40	33	31	120	593	342	181	215	393
28	157	92	e63	e35	32	30	142	584	349	181	198	364
29	154	83	e41	e39	---	29	199	571	345	176	204	333
30	146	81	e36	e45	---	31	275	552	353	179	183	314
31	137	---	e41	e47	---	30	---	531	---	381	189	---
TOTAL	7972	2747	1797	1664	996	978	1841	15620	14171	8049	6089	10373
MEAN	257	91.6	58.0	53.7	35.6	31.5	61.4	504	472	260	196	346
MAX	650	131	93	72	42	35	275	621	598	387	322	616
MIN	137	68	25	35	31	29	29	300	342	176	134	175
AC-FT	15810	5450	3560	3300	1980	1940	3650	30980	28110	15970	12080	20570

ADJUSTED TO INCLUDE DIVERSION

MEAN	265	96.5	63.2	58.8	40.9	36.5	66.2	509	479	267	201	350
CFSM	2.96	1.08	0.70	0.66	0.46	0.41	0.74	5.68	5.35	2.99	2.25	3.91
IN	3.41	1.20	0.81	0.76	0.48	0.47	0.82	6.55	5.97	3.44	2.59	4.36
AC-FT	16300	5740	3880	3610	2270	2250	3940	31300	28500	16400	12400	20800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1947 - 2005, BY WATER YEAR (WY)#

MEAN	154	79.8	49.7	32.8	23.5	17.9	26.7	177	450	300	204	209
MAX	356	199	154	79.4	61.6	50.2	69.7	504	798	645	510	471
(WY)	2003	2003	2003	2003	2003	2003	1990	2005	1977	1980	1981	1967
MIN	48.7	24.3	13.9	7.13	5.36	3.61	4.77	39.9	132	72.0	72.9	55.8
(WY)	1969	1969	1969	1956	1983	1956	1954	1971	1996	1996	2004	1969

\# See Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted.
e Estimated

15276000 SHIP CREEK NEAR ANCHORAGE—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1947 - 2005#	
ANNUAL TOTAL	51228		72297			
ANNUAL MEAN	140		198		144	
ANNUAL MEAN	*146		*203		*162	
HIGHEST ANNUAL MEAN					223	1980
LOWEST ANNUAL MEAN					67.3	1969
HIGHEST DAILY MEAN	650	Oct 1	650	Oct 1	1420	Aug 9 1971
LOWEST DAILY MEAN	25	Dec 5	25	Dec 5	a0.00	Jan 2 1956
ANNUAL SEVEN-DAY MINIMUM	29	Mar 26	29	Apr 1	0.43	Jan 9 1956
MAXIMUM PEAK FLOW			1160	Oct 1	1860	Jun 21 1949
MAXIMUM PEAK STAGE			f6.30	Oct 1	b3.44	Jun 21 1949
MAXIMUM PEAK STAGE					c6.52	Jun 21 1949
MAXIMUM PEAK STAGE					d8.54	Dec 29 2002
ANNUAL RUNOFF (AC-FT)	101600		143400		104500	
ANNUAL RUNOFF (AC-FT)	*106000		*147400		*117400	
ANNUAL RUNOFF (CFSM)	*1.63		*2.27		*1.81	
ANNUAL RUNOFF (IN)	*22.2		*30.9		*24.6	
10 PERCENT EXCEEDS	390		513		370	
50 PERCENT EXCEEDS	75		137		78	
90 PERCENT EXCEEDS	36		32		15	

\# See Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted.
* Adjusted to account for diversion, see Remarks.
a No flow during one or more days in water years 1956, 1960, 1969 and 1971.
b Site and datum then in use.
c Current site and datum.
d From crest-stage gage mark from ice-affected winter breakout event, at current site and datum.
f From crest-stage gage.

15276320 SHIP CREEK BELOW FISH HATCHERY NEAR ANCHORAGE

LOCATION.--Lat 61°14'36", long 149°43'19", in SW¼ NE¼ SE¼ sec. 1, T. 13 N., R. 3 W. (Anchorage A-8NE quad), Municipality of Anchorage, Hydrologic Unit 19020401, in Fort Richardson Military Reservation, on left bank, 0.5 mi downstream from fish hatchery, 0.8 mi upstream of the Fort Richardson Elmendorf border, 3.3 mi downstream from diversion dam, and 6.0 mi east of intersection of Seward and Glenn Highways in Anchorage.

DRAINAGE AREA.--104.6 mi^2.

PERIOD OF RECORD.--October 2002 to September 30, 2005 (discontinued).

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. 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 2005 was 5.52 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.

REVISIONS.--Revised figures of discharge for water year 2004 are given given below. These figures supercede those published in reports for 2004.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	109	e100	76	50	41	33	26	128	411	233	90	113
2	111	104	71	47	40	33	30	153	392	218	86	113
3	288	100	65	52	39	33	30	157	377	206	84	110
4	400	94	78	53	38	33	30	172	386	190	79	106
5	305	96	80	53	38	31	30	204	409	183	83	99
6	302	98	70	52	38	22	32	253	418	172	82	94
7	278	102	71	50	37	27	37	310	463	164	80	91
8	256	111	76	49	38	33	39	357	517	156	78	88
9	252	111	76	52	37	25	36	347	474	144	78	86
10	223	e106	74	52	38	33	37	336	426	139	78	84
11	e200	e105	74	51	40	34	37	346	391	133	75	81
12	e190	e105	71	49	35	33	37	356	360	124	75	79
13	e180	e100	68	47	39	31	38	392	348	119	75	90
14	e165	e85	68	47	38	31	40	418	343	117	73	80
15	e160	e60	67	45	34	31	44	423	360	120	74	76
16	e150	e48	65	44	25	30	49	414	351	117	73	73
17	e140	e42	63	44	28	27	49	396	393	114	63	70
18	e140	e32	63	44	32	29	50	411	422	113	64	69
19	e130	31	58	44	37	21	52	431	418	106	71	69
20	e130	49	63	46	40	26	55	456	411	101	77	76
21	e120	81	63	47	39	29	58	489	393	105	74	97
22	e120	83	63	47	38	33	65	514	357	104	72	91
23	e110	73	60	45	36	33	71	629	345	102	70	103
24	111	78	55	41	35	32	73	620	330	99	68	91
25	123	75	46	39	34	30	75	529	314	96	66	94
26	121	56	43	43	33	28	82	499	305	95	86	220
27	e113	49	43	43	34	28	89	449	299	96	182	223
28	e110	63	51	41	33	27	92	450	284	104	198	191
29	e110	74	60	40	33	28	108	413	268	100	159	212
30	e100	77	64	36	---	26	117	405	244	97	135	558
31	e100	---	63	39	---	21	---	421	---	93	120	---
TOTAL	5347	2388	2008	1432	1047	911	1608	11878	11209	4060	2768	3627
MEAN	172	79.6	64.8	46.2	36.1	29.4	53.6	383	374	131	89.3	121
MAX	400	111	80	53	41	34	117	629	517	233	198	558
MIN	100	31	43	36	25	21	26	128	244	93	63	69
AC-FT	10610	4740	3980	2840	2080	1810	3190	23560	22230	8050	5490	7190
CFSM	1.65	0.76	0.62	0.44	0.35	0.28	0.51	3.66	3.57	1.25	0.85	1.16
IN.	1.90	0.85	0.71	0.51	0.37	0.32	0.57	4.22	3.99	1.44	0.98	1.29

ADJUSTED TO INCLUDE DIVERSION

MEAN	178	84.8	69.8	51.5	41.7	35.4	58.8	389	379	141	96.2	126
CFSM	1.70	0.81	0.67	0.49	0.40	0.34	0.56	3.72	3.63	1.34	0.92	1.20
IN	1.89	0.90	0.77	0.57	0.43	0.39	0.63	4.28	4.04	1.55	1.06	1.38
AC-FT	10920	5040	4290	3170	2400	2170	3500	23900	22600	8650	5920	7480

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2004, BY WATER YEAR (WY)#

MEAN	255	134	106	60.3	46.2	39.0	50.5	274	356	164	121	117
MAX	337	188	148	74.4	56.6	48.7	53.6	383	374	196	153	121
(WY)	2003	2003	2003	2003	2003	2003	2004	2004	2004	2003	2003	2004
MIN	172	79.6	64.8	46.2	36.1	29.4	47.5	165	339	131	89.3	113
(WY)	2004	2004	2004	2004	2004	2004	2003	2003	2003	2004	2004	2003

\# See Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted.
e Estimated

15276320 SHIP CREEK BELOW FISH HATCHERY NEAR ANCHORAGE—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 2003 - 2004#	
ANNUAL TOTAL	46051		48283			
ANNUAL MEAN	126		132		144	
ANNUAL MEAN	*132		*138		*150	
HIGHEST ANNUAL MEAN					156	2003
LOWEST ANNUAL MEAN					132	2004
HIGHEST DAILY MEAN	517	Jun 14	629	May 23	680	Dec 28 2002
LOWEST DAILY MEAN	31	Nov 19	a21	Mar 19	a21	Mar 19 2004
ANNUAL SEVEN-DAY MINIMUM	35	Apr 9	26	Mar 26	26	Mar 26 2004
MAXIMUM PEAK FLOW			878	Sep 30	878	Sep 30 2004
MAXIMUM PEAK STAGE			5.34	Sep 30	5.34	Sep 30 2004
ANNUAL RUNOFF (AC-FT)	91340		95770		104300	
ANNUAL RUNOFF (AC-FT)	*95760		*100000		*108700	
ANNUAL RUNOFF (CFSM)	*1.26		*1.31		*1.43	
ANNUAL RUNOFF (INCHES)	*17.08		*17.89		*19.47	
10 PERCENT EXCEEDS	269		380		345	
50 PERCENT EXCEEDS	100		78		100	
90 PERCENT EXCEEDS	46		33		38	

See Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted.
* Adjusted to account for diversion, see Remarks.
a Mar. 21 and 31

15276320 SHIP CREEK BELOW FISH HATCHERY NEAR ANCHORAGE—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	644	116	96	e34	e34	26	31	322	483	363	308	205
2	493	81	98	e35	e31	23	30	308	453	354	286	195
3	481	e76	84	e39	e27	30	31	302	438	352	266	189
4	490	e72	29	e43	e28	29	28	300	419	330	251	193
5	407	69	e18	e49	e29	29	28	284	446	318	231	195
6	345	e75	e34	e57	e30	30	29	278	476	315	222	254
7	327	e85	e50	64	28	31	28	293	482	307	208	309
8	293	e92	61	60	23	34	27	316	476	303	202	291
9	277	112	43	64	26	33	28	352	476	307	193	316
10	259	131	40	49	e30	37	28	377	480	286	186	591
11	229	129	44	50	e29	40	30	405	486	287	182	549
12	207	125	61	e40	e28	41	31	482	519	270	175	520
13	205	121	73	28	e29	50	33	572	497	266	169	483
14	211	114	66	39	28	47	30	650	505	245	165	417
15	199	111	65	56	29	42	36	621	528	234	160	373
16	181	111	73	63	29	41	38	568	565	233	153	356
17	171	107	77	54	28	38	37	501	600	226	151	341
18	159	105	81	59	28	37	35	483	661	206	149	324
19	166	103	78	e50	28	37	37	523	652	233	178	307
20	157	100	69	42	28	38	58	559	551	219	152	300
21	160	98	51	48	28	35	74	641	471	205	180	281
22	152	97	70	55	27	37	99	648	428	196	193	288
23	154	95	85	54	26	41	119	590	392	188	268	340
24	151	94	51	49	26	36	129	599	358	177	311	588
25	142	92	17	47	25	38	127	566	346	173	290	525
26	147	90	21	42	25	39	141	544	342	178	259	483
27	152	94	55	32	25	40	159	573	332	173	238	435
28	145	106	55	27	24	37	186	563	332	171	215	400
29	143	94	33	31	---	33	247	556	332	167	221	366
30	134	91	28	37	---	31	299	536	334	164	201	354
31	122	---	e33	39	---	33	---	503	---	353	203	---
TOTAL	7503	2986	1739	1436	776	1113	2233	14815	13860	7799	6566	10768
MEAN	242	99.5	56.1	46.3	27.7	35.9	74.4	478	462	252	212	359
MAX	644	131	98	64	34	50	299	650	661	363	311	591
MIN	122	69	17	27	23	23	27	278	332	164	149	189
AC-FT	14880	5920	3450	2850	1540	2210	4430	29390	27490	15470	13020	21360
CFSM	2.31	0.95	0.54	0.44	0.26	0.34	0.71	4.57	4.42	2.41	2.02	3.43
IN.	2.67	1.06	0.62	0.51	0.28	0.40	0.79	5.27	4.93	2.77	2.34	3.83
ADJUSTED TO INCLUDE DIVERSION												
MEAN	250	104	61.3	51.4	33.0	40.9	79.3	483	469	259	217	363
CFSM	2.39	1.00	0.59	0.49	0.32	0.39	0.76	4.61	4.48	2.48	2.07	3.47
IN	2.66	1.11	0.67	0.57	0.34	0.45	0.84	5.31	4.99	2.85	2.39	4.00
AC-FT	15400	6220	3769	3160	1830	2510	4720	29700	27900	16000	13300	21600
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2003 - 2005, BY WATER YEAR (WY)#												
MEAN	251	122	89.5	55.6	40.1	38.0	58.5	342	392	193	151	197
MAX	337	188	148	74.4	56.6	48.7	74.4	478	462	252	212	359
(WY)	2003	2003	2003	2003	2003	2003	2005	2005	2005	2005	2005	2005
MIN	172	79.6	56.1	46.2	27.7	29.4	47.5	165	339	131	89.3	113
(WY)	2004	2004	2005	2004	2005	2004	2003	2003	2003	2004	2004	2003

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2003 - 2005#	
ANNUAL TOTAL	50768		71594			
ANNUAL MEAN	139		196		161	
ANNUAL MEAN	*144		*201		*167	
HIGHEST ANNUAL MEAN					196	2005
LOWEST ANNUAL MEAN					132	2004
HIGHEST DAILY MEAN	644	Oct 1	661	Jun 18	680	Dec 28 2002
LOWEST DAILY MEAN	17	Dec 25	17	Dec 25	17	Dec 25 2004
ANNUAL SEVEN-DAY MINIMUM	26	Mar 26	25	Feb 24	25	Feb 24 2005
MAXIMUM PEAK FLOW			a784	Jun 18	878	Sep 30 2004
MAXIMUM PEAK STAGE			a5.21	Jun 18	5.34	Sep 30 2004
ANNUAL RUNOFF (AC-FT)	100700		142000		116900	
ANNUAL RUNOFF (AC-FT)	*105100		*146000		*121000	
ANNUAL RUNOFF (CFSM)	*1.38		*1.92		*1.60	
ANNUAL RUNOFF (INCHES)	*18.72		*26.19		*21.68	
10 PERCENT EXCEEDS	392		484		391	
50 PERCENT EXCEEDS	84		147		104	
90 PERCENT EXCEEDS	33		29		34	

\# See Remarks. Values shown on this page are unadjusted for diversion, unless otherwise noted.
* Adjusted to account for diversion, see Remarks.
a Maximum discharge, 805 ft^3/s, Oct. 1, peak discharge of 878 ft^3/s occurred Sep. 30, 2004;
maximum peak discharge for water year, 784 ft^3/s, Jun. 18, 19 and Sep. 24, gage height, 5.21 ft.

15278000 EKLUTNA LAKE NEAR PALMER

LOCATION.--Lat 61°24'39", long 149°07'20", in NE$^1/_4$ NE$^1/_4$ 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. Rain gage at station. 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, 865.93 ft, October 6; minimum, 827.80 ft, May 9.

GAGE-HEIGHT, FEET, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	865.41	863.30	858.22	852.85	847.01	841.32	835.06	828.55	830.15	838.79	852.93	862.47
2	865.38	863.09	858.08	852.69	846.76	841.11	834.85	828.45	830.14	839.38	853.32	862.48
3	865.56	862.91	857.93	852.49	846.54	840.92	834.64	828.35	830.10	840.00	853.67	862.45
4	865.81	862.74	857.75	852.37	846.36	840.75	834.41	828.27	830.08	840.54	853.00	862.43
5	865.89	862.55	857.54	852.27	846.15	840.63	834.15	828.19	830.09	841.09	---	862.43
6	865.88	862.36	857.36	852.10	---	840.48	833.94	828.10	830.18	841.65	---	862.50
7	865.82	862.18	857.19	851.92	---	840.30	833.70	828.01	830.26	842.16	---	862.65
8	865.74	862.01	857.02	851.76	845.56	840.08	833.46	827.92	830.33	842.66	---	862.70
9	865.65	861.80	856.79	851.64	845.38	839.88	833.24	827.89	830.43	843.20	855.78	862.77
10	865.53	861.56	856.59	851.45	845.17	839.72	833.01	828.06	830.58	843.72	856.20	863.11
11	865.46	861.39	856.40	851.23	844.97	839.60	832.75	828.25	830.71	844.32	856.66	863.43
12	865.37	861.25	856.26	851.03	844.80	839.45	832.47	828.44	830.87	844.92	857.16	863.69
13	865.31	861.12	856.08	850.88	844.64	839.29	832.19	828.68	831.08	845.45	857.68	863.84
14	865.24	860.97	855.92	850.74	---	839.11	831.93	828.88	831.33	845.95	858.13	863.88
15	865.19	860.76	855.73	850.53	---	838.92	831.68	829.06	831.66	846.35	858.57	863.91
16	865.11	860.60	855.59	850.34	844.00	838.74	831.41	829.20	832.10	846.81	858.88	863.92
17	865.02	860.45	855.41	850.16	843.75	838.58	831.17	829.26	832.60	847.24	859.16	863.98
18	864.93	860.29	855.23	850.00	843.53	838.44	830.92	829.31	833.21	847.60	859.47	863.98
19	864.81	860.12	855.07	---	843.37	838.21	830.65	829.28	833.92	847.95	859.78	863.91
20	864.71	859.96	854.94	---	843.22	837.92	830.45	829.27	834.54	848.40	860.06	863.86
21	864.62	859.80	854.79	849.24	843.07	837.63	830.23	829.33	834.95	848.87	860.35	863.77
22	864.49	859.58	854.69	849.05	842.90	837.40	830.03	829.49	835.34	849.27	860.57	863.69
23	864.36	859.38	854.54	848.86	842.64	837.27	829.88	829.59	835.67	849.66	860.94	863.67
24	864.24	859.21	854.32	848.66	842.40	837.12	829.73	829.61	835.92	850.09	861.44	863.85
25	864.08	859.03	854.11	848.48	842.15	836.90	829.47	829.62	836.23	850.45	861.71	863.92
26	863.94	858.89	853.90	848.29	841.90	836.65	829.23	829.68	836.59	850.89	861.88	863.87
27	863.82	858.73	853.70	848.10	841.69	836.44	829.04	829.77	836.99	851.29	862.00	863.74
28	863.73	858.61	853.52	847.89	841.51	836.22	828.88	829.88	837.36	851.59	862.14	863.66
29	863.68	858.47	853.37	847.67	---	835.92	828.76	830.00	837.78	851.87	862.28	863.61
30	863.59	858.36	853.20	847.44	---	835.61	828.65	830.10	838.25	852.09	862.34	863.55
31	863.48	---	853.03	847.22	---	835.31	---	830.14	---	852.53	862.38	---
MEAN	864.90	860.72	855.62	---	---	838.58	831.67	828.99	832.98	846.35	---	863.39
MAX	865.89	863.30	858.22	---	---	841.32	835.06	830.14	838.25	852.53	---	863.98
MIN	863.48	858.36	853.03	---	---	835.31	828.65	827.89	830.08	838.79	---	862.43

15280200 EKLUTNA RIVER AT OLD GLENN HIGHWAY AT EKLUTNA

LOCATION.--Lat 61°27′01″, long 149°22′02″, in NE¼ SW¼ NE¼ sec. 25, T. 16 N., R. 1 W. (Anchorage B-7 quad), Municipality of Anchorage, Hydrologic Unit 19020402, on right bank, 1.3 mi upstream from mouth, 0.7 mi south of Eklutna.

DRAINAGE AREA.--172 mi^2.

PERIOD OF RECORD.--May 1 2002 to current year

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is National Geodetic Vertical Datum of 1929.

REMARKS.--Records are fair except for Apr. 15 to May 9, May 20 to Aug. 24, and estimated daily discharges, which are poor. Flow regulated by Eklutna Reservoir, 11 mi upstream, for power generation and water supply. GOES satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	115	43	32	e23	e12	10	14	110	126	119	117	60
2	110	e30	32	e23	e12	12	13	126	121	135	137	60
3	115	e24	e26	e22	e12	13	13	110	116	128	163	61
4	108	e21	e17	e22	e12	12	12	102	116	124	142	61
5	114	e18	e13	e23	e11	12	13	90	118	126	104	61
6	108	e15	e19	e23	e11	10	13	85	121	130	92	64
7	104	e10	e31	e21	e11	11	15	84	124	127	88	63
8	95	e18	e34	e19	e11	12	16	87	130	135	84	61
9	89	e30	e32	e19	e12	12	17	76	136	132	93	63
10	87	e42	e31	e18	e13	14	16	61	157	124	85	75
11	80	e44	e30	e18	e13	14	16	64	161	92	67	74
12	73	e39	e30	e17	e14	13	16	68	165	92	59	82
13	70	e35	e29	e17	e15	17	18	73	170	76	68	85
14	62	e33	e29	e17	e15	20	16	78	176	75	52	84
15	61	e31	e28	e16	e16	17	22	79	168	86	53	84
16	66	e29	e28	e16	15	19	30	79	188	69	59	85
17	67	e30	e27	e16	14	17	28	78	203	82	47	85
18	60	e31	e27	e16	12	12	25	81	199	78	61	84
19	55	32	e27	e15	15	12	25	83	199	72	58	81
20	56	31	15	e15	14	12	31	75	199	63	54	78
21	57	31	e17	e15	14	e10	34	83	163	66	44	72
22	53	31	e25	e15	14	e11	52	95	154	80	42	72
23	57	32	21	e14	12	12	79	110	142	74	48	76
24	54	32	e18	e14	13	12	66	115	133	71	e51	85
25	51	29	e22	e14	13	13	52	111	139	72	59	80
26	59	28	e26	13	13	14	77	116	134	72	62	85
27	57	33	e26	13	13	14	68	126	124	76	64	91
28	56	34	e25	e13	9.7	13	73	138	109	72	64	92
29	54	31	e25	e13	---	12	92	139	102	68	66	89
30	49	30	e24	e13	---	18	99	135	98	71	64	86
31	46	---	e24	e12	---	15	---	132	---	123	62	---
TOTAL	2288	897	790	525	361.7	415	1061	2989	4391	2910	2309	2279
MEAN	73.8	29.9	25.5	16.9	12.9	13.4	35.4	96.4	146	93.9	74.5	76.0
MAX	115	44	34	23	16	20	99	139	203	135	163	92
MIN	46	10	13	12	9.7	10	12	61	98	63	42	60
AC-FT	4540	1780	1570	1040	717	823	2100	5930	8710	5770	4580	4520

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)#

MEAN	59.7	32.2	22.0	18.0	16.0	13.5	25.0	55.0	94.1	64.0	51.7	53.4
MAX	73.8	43.3	25.5	21.3	22.1	15.7	35.4	96.4	146	93.9	74.5	76.0
(WY)	2005	2003	2005	2003	2003	2003	2005	2005	2005	2005	2005	2005
MIN	39.2	23.4	17.2	15.7	12.9	11.5	17.9	21.0	71.9	41.9	29.4	30.3
(WY)	2004	2004	2004	2004	2005	2004	2004	2003	2003	2004	2004	2003

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005#	
ANNUAL TOTAL	13202		21215.7			
ANNUAL MEAN	36.1		58.1		42.3	
HIGHEST ANNUAL MEAN					58.1	2005
LOWEST ANNUAL MEAN					31.9	2004
HIGHEST DAILY MEAN	115	Oct 1	203	Jun 17	203	Jun 17 2005
LOWEST DAILY MEAN	10	Nov 7	9.7	Feb 28	6.0	Nov 16 2003
ANNUAL SEVEN-DAY MINIMUM	11	Mar 17	11	Feb 28	11	Mar 17 2004
MAXIMUM PEAK FLOW			231	Jun 17	231	Jun 17 2005
MAXIMUM PEAK STAGE			86.23	Jun 17	86.23	Jun 17 2005
MAXIMUM PEAK STAGE			a87.50	Jan 4	a87.50	Jan 4 2005
ANNUAL RUNOFF (AC-FT)	26190		42080		30670	
10 PERCENT EXCEEDS	78		125		86	
50 PERCENT EXCEEDS	29		52		29	
90 PERCENT EXCEEDS	12		13		13	

\# See Period of Record; partial year was used in monthly statistics.
a Backwater from ice
e Estimated

15281000 KNIK RIVER NEAR PALMER

LOCATION.--Lat 61°30'18", long 149°01'50", in NE¼ SE¼ sec. 2, T.16 N., R.2 E. (Anchorage C-6 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020402, near the right bank on downstream side of bridge on Old Glenn Highway, 7 mi south of Palmer, 7 mi upstream from Alaska Railroad bridge, 9 mi downstream from Friday Creek, and about 17 mi downstream from Knik Glacier.

DRAINAGE AREA.--1,180 mi^2, approximately.

PERIOD OF RECORD.--October 1959 to January 1988, annual maximum, water year 1989, October 1991 to September 1992, April 2001 to current year (no winter record).

REVISED RECORDS.--WRD-AK-77-1: 1974-75(M).

GAGE.--Water-stage recorder. Datum of gage is 33.68 ft above North American Vertical Datum of 1988. Prior to June 27, 1960, nonrecording gage, and June 27, 1960 to April 25,1974, water-stage recorder at old bridge 100 ft upstream at original 1929 datum. April 26, 1974 to April 18, 1976, recording gage at site 0.4 mi upstream at different datum.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Flood peaks due to outbreak of glacier-dammed Lake George, 1948-62, 1964, 1965, published in WSP 1936. Streamflow augmented by glaciers, which cover 54 percent of the basin.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1948, 359,000 ft^3/s, July 18, 1958, gage height, 25.30 ft, at site in use beginning 1959, from outbreak of glacier-dammed Lake George.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8750	---	---	---	---	---	e750	5320	14000	25700	e19000	14500
2	7730	---	---	---	---	---	e750	5730	13400	24900	18900	13400
3	10000	---	---	---	---	---	e750	5380	12700	24000	18700	12700
4	13800	---	---	---	---	---	e750	5060	12500	22900	e19000	13100
5	14000	---	---	---	---	---	e750	4940	12800	23000	e20000	13600
6	11500	---	---	---	---	---	e800	4760	13600	24000	21000	15600
7	9170	---	---	---	---	---	e800	4700	14400	25300	21700	18300
8	7520	---	---	---	---	---	e800	4940	14100	25600	22100	17300
9	6390	---	---	---	---	---	e800	5260	14200	26100	22900	e16000
10	5780	---	---	---	---	---	e800	5700	15600	27300	24400	e20000
11	5310	---	---	---	---	---	e850	6060	17100	29900	25400	e19000
12	5040	---	---	---	---	---	e850	6530	18200	30800	27500	e18000
13	5140	---	---	---	---	---	e850	7560	18100	30800	29400	17800
14	5180	---	---	---	---	---	e850	8840	18600	29400	28700	14700
15	5110	---	---	---	---	---	e900	9480	19600	28200	28000	13200
16	4680	---	---	---	---	---	e900	9110	21000	e30000	26100	13200
17	4140	---	---	---	---	---	e900	e9500	23300	e28000	25100	13900
18	3590	---	---	---	---	---	e950	e10000	25900	e26000	24300	14300
19	3160	---	---	---	---	---	e1000	10100	26100	25600	23800	12600
20	2890	---	---	---	---	---	1100	10300	23600	26600	e22500	11200
21	2680	---	---	---	---	---	1280	11200	21300	26900	23500	10000
22	2480	---	---	---	---	---	1520	10900	21800	25700	21300	9470
23	2310	---	---	---	---	---	2130	10300	20900	24800	e20400	10400
24	2200	---	---	---	---	---	2670	11000	20900	25000	24000	13000
25	e2100	---	---	---	---	---	2760	11900	22300	24500	24300	13000
26	2070	---	---	---	---	---	2850	12200	24200	25200	22400	11300
27	2110	---	---	---	---	---	3190	12600	25800	e26000	19600	10000
28	2130	---	---	---	---	---	3570	12900	25200	e24000	17800	9960
29	2160	---	---	---	---	---	4040	13600	25200	e22000	16800	9510
30	2110	---	---	---	---	---	4740	13800	25800	20300	15900	8510
31	e2000	---	---	---	---	---	---	14100	---	e20000	15000	---
TOTAL	163230	---	---	---	---	---	45650	273770	582200	798500	689500	407550
MEAN	5265	---	---	---	---	---	1522	8831	19410	25760	22240	13580
MAX	14000	---	---	---	---	---	4740	14100	26100	30800	29400	20000
MIN	2000	---	---	---	---	---	750	4700	12500	20000	15000	8510
AC-FT	323800	---	---	---	---	---	90550	543000	1155000	1584000	1368000	808400
CFSM	4.46	---	---	---	---	---	1.29	7.48	16.4	21.8	18.8	11.5
IN.	5.15	---	---	---	---	---	1.44	8.63	18.35	25.17	21.74	12.85

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1960 - 2005, BY WATER YEAR (WY)#

MEAN	4847	1906	1022	909	790	658	964	4076	13340	23910	21600	11190
MAX	15730	5950	2677	3781	2566	1314	1756	8831	21500	37450	28300	16960
(WY)	2004	2003	2003	1981	2003	1977	2004	2005	2004	1960	1979	1974
MIN	1782	637	500	460	338	260	348	1039	2598	17440	15260	6594
(WY)	1982	1969	1974	1976	1962	1962	1972	1965	1965	1970	1969	1992

See Period of Record; partial years were used in monthly statistics and break in record
e Estimated

15281000 KINIK RIVER NEAR PALMER—Continued

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 1960 - 2005#	
ANNUAL MEAN			7004	
HIGHEST ANNUAL MEAN			8889	2003
LOWEST ANNUAL MEAN			5590	1973
HIGHEST DAILY MEAN	a30800	Jul 12	341000	Jul 26 1961
LOWEST DAILY MEAN			b260	Mar 1 1962
ANNUAL SEVEN-DAY MINIMUM			260	Mar 1 1962
MAXIMUM PEAK FLOW	32500	Jul 13	cd355000	Jul 26 1961
MAXIMUM PEAK STAGE	11.95	Jul 13	c24.35	Jul 17 1960
ANNUAL RUNOFF (AC-FT)			5074000	
ANNUAL RUNOFF (CFSM)			5.94	
ANNUAL RUNOFF (INCHES)			80.65	
10 PERCENT EXCEEDS			21100	
50 PERCENT EXCEEDS			2100	
90 PERCENT EXCEEDS			500	

\# See Period of Record; partial years were used in monthly statistics and break in record
a July 12 & 13
b Mar. 1-31, 1962
c Site then in use, caused by release of stored water (Lake George) behind Knik Glacier
d Gage height, 24.3 ft

15284000 MATANUSKA RIVER AT 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 2000 to current year. 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 March 27, 1964 earthquake). Prior to November 2, 1950, non-recording gage at bridge 20 ft upstream at same datum. November 2, 1950 to April 30,1952, non-recording gage at current site and same datum. May 1, 1952 to September 30, 1973, July 19 to October 20, 1987, and October 1, 1991 to September 30, 1992, water-stage recorder at site 100 ft downstream at same datum.

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

EXTREMES FOR CURRENT YEAR.--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)
June 17	1815	*a27,000	*10.54	Aug. 14	0600	24,000	10.14

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3640	e1000	e850	e700	e500	e600	624	5510	11600	17900	9820	9050
2	2510	e1000	e850	e700	e500	e600	628	e4850	9940	17700	8580	8800
3	e2200	e1000	e800	e700	e500	e620	592	e4470	8240	17600	8980	7270
4	e2000	e1000	e750	e750	e500	e620	603	e4300	7290	17600	9960	6310
5	e1900	e950	e750	e800	e500	e620	597	e3960	8400	17400	11600	5930
6	e1900	e900	e750	e850	e500	e620	634	3900	10500	17200	13400	6070
7	e1900	e900	e750	e800	e500	e620	633	4170	10900	16300	13500	7980
8	e1800	e900	e800	e700	e500	e620	632	e5180	11600	15700	13600	7600
9	e1800	e1000	e800	e600	e550	657	653	e6290	11200	15800	13800	7520
10	e1800	e1000	e800	e550	e550	e650	669	e7220	11900	16100	15500	17800
11	e1800	e1000	e800	e500	e500	e650	693	e7840	15800	15300	17000	15900
12	e1800	e1000	e800	e500	e500	664	708	8400	17700	15100	18200	14800
13	e1800	e1000	e800	e500	e500	740	728	8440	19200	13400	18200	13900
14	e1800	e900	e800	e500	e500	743	736	8990	20800	12200	18900	11400
15	e1700	e900	e800	e500	e550	672	757	9690	21600	11200	18900	9810
16	e1700	e900	e800	e500	e550	638	761	e8810	21800	13200	16500	8600
17	e1700	e900	e850	e500	e550	641	765	e7870	24900	11600	14000	7670
18	e1600	e900	e850	e500	e550	618	758	e7470	22400	12700	14000	7210
19	e1600	e900	e850	e500	e550	639	751	7760	19700	15500	14100	6700
20	e1600	e900	e800	e500	e550	629	790	8560	18500	17100	12600	6380
21	e1600	e900	e800	e500	e550	560	847	10300	15800	15200	11400	6020
22	e1500	e900	e850	e550	e580	564	940	12000	16500	12800	9740	5770
23	e1500	e900	e850	e550	e580	647	1050	12000	17100	12300	9980	6430
24	e1500	e900	e800	e550	e580	660	1320	12200	17400	13000	11600	9140
25	e1400	e850	e700	e550	e600	656	e1690	14700	18000	12600	10700	9010
26	e1400	e850	e700	e500	e600	652	1940	14700	17900	11800	10100	7450
27	e1400	e850	e700	e500	e600	658	2280	15200	17700	12900	9610	6300
28	e1300	e850	e700	e500	e600	631	3110	16000	17100	14300	8290	5630
29	e1300	e850	e700	e500	---	617	4530	16600	17600	14700	7810	5010
30	e1200	e850	e700	e500	---	e625	e5200	14800	18100	12600	7880	4960
31	e1100	---	e700	e500	---	597	---	13000	---	11300	8100	---
TOTAL	53750	27650	24250	17850	15090	19728	36619	285180	477170	450100	386350	252420
MEAN	1734	922	782	576	539	636	1221	9199	15910	14520	12460	8414
MAX	3640	1000	850	850	600	743	5200	16600	24900	17900	18900	17800
MIN	1100	850	700	500	500	560	592	3900	7290	11200	7810	4960
AC-FT	106600	54840	48100	35410	29930	39130	72630	565700	946500	892800	766300	500700
CFSM	0.84	0.45	0.38	0.28	0.26	0.31	0.59	4.44	7.68	7.01	6.02	4.06
IN.	0.97	0.50	0.44	0.32	0.27	0.35	0.66	5.12	8.58	8.09	6.94	4.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005, BY WATER YEAR (WY)#

MEAN	1996	1002	739	621	528	481	667	2946	10410	13180	9920	4899
MAX	3540	1793	1024	821	708	636	1221	9199	17250	18750	15730	8966
(WY)	2004	1972	1972	1961	2003	2005	2005	2005	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

\# See Period of Record; partial years were used in monthly statistics.
a Peak discharge adjusted to exclude surge; peak stage not adjusted to exclude surge.
e Estimated

15284000 MATANUSKA RIVER AT PALMER—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1949 - 2005#	
ANNUAL TOTAL	1551020		2046157			
ANNUAL MEAN	4238		5606		3898	
HIGHEST ANNUAL MEAN					5606	2005
LOWEST ANNUAL MEAN					2562	1969
HIGHEST DAILY MEAN	31300	Jun 21	24900	Jun 17	40700	Aug 10 1971
LOWEST DAILY MEAN	433	Mar 29	b500	Jan 11	234	Apr 25 1956
ANNUAL SEVEN-DAY MINIMUM	443	Mar 28	500	Jan 11	304	Apr 20 1956
MAXIMUM PEAK FLOW	a45000	Jun 21	a27000	Jun 17	c82100	Aug 10 1971
MAXIMUM PEAK STAGE	a13.56	Jun 20	a10.54	Jun 17	d13.60	Aug 10 1971
ANNUAL RUNOFF (AC-FT)	3076000		4059000		2824000	
ANNUAL RUNOFF (CFSM)	2.05		2.71		1.88	
ANNUAL RUNOFF (INCHES)	27.87		36.77		25.59	
10 PERCENT EXCEEDS	12000		15900		11800	
50 PERCENT EXCEEDS	1110		1500		1200	
90 PERCENT EXCEEDS	482		550		480	

\# See Period of Record; partial years were used in monthly statistics.
a Peak discharge adjusted to exclude surge; peak stage not adjusted to exclude surge.
b Jan. 11-21, Jan. 26 - Feb. 8, and Feb. 11-14
c 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.
d Site then in use

15290000 LITTLE SUSITNA RIVER NEAR PALMER

LOCATION.--Lat 61°42'37", long 149°13'47", in SE$^1/_4$ NW$^1/_4$ 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 miles 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 estimated daily discharges, 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)
May 21	1845	1270	5.30	Sept. 07	0130	1300	5.30
June 18	2215	2170	6.01	Sept. 10	0315	*2760	*6.36
Aug. 21	1515	1280	5.35	Sept. 24	0615	2130	5.98

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUE

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1030	95	59	e47	33	27	24	345	904	1110	402	575
2	492	88	58	46	e33	26	23	331	881	934	444	510
3	393	e84	54	e46	e33	26	23	319	847	898	393	451
4	350	e81	e50	e46	e33	26	23	305	872	848	373	447
5	309	e78	e47	e46	e33	26	23	296	998	834	380	458
6	275	e75	e46	e46	e33	26	24	302	1110	836	374	673
7	256	e70	e45	e45	e32	26	24	372	1120	831	337	1110
8	234	e74	e43	e45	e32	26	24	459	1060	764	315	909
9	213	e78	e42	e45	e32	26	25	566	937	789	308	1090
10	194	e81	e44	e45	e32	26	26	671	1070	846	315	2120
11	177	e84	e46	e44	32	26	27	766	1620	736	318	1460
12	165	e85	e48	e44	31	26	29	862	1460	686	322	1250
13	169	76	e50	e44	31	30	31	850	1370	593	324	1160
14	224	70	e51	e44	31	30	32	869	1570	516	313	941
15	183	69	e52	e43	30	28	34	915	1680	500	305	781
16	160	66	55	e43	30	27	35	814	1800	493	263	690
17	146	64	58	44	29	26	35	719	1800	449	236	614
18	136	63	54	42	29	26	34	696	1850	469	227	535
19	137	62	48	40	29	26	34	754	1700	447	252	476
20	129	61	47	41	29	25	42	917	1190	424	218	441
21	126	61	56	41	28	e24	46	1120	1010	399	739	428
22	114	59	54	40	28	e25	65	1110	974	373	575	493
23	122	59	54	42	28	25	93	1110	829	361	744	847
24	113	58	e51	43	28	24	109	1080	843	361	687	1720
25	107	57	e50	36	27	24	114	1090	877	332	616	1370
26	110	56	e49	36	27	24	136	1160	952	301	549	1150
27	111	60	e49	e34	27	24	172	1110	1010	282	489	931
28	105	64	e48	e34	27	24	243	992	965	281	428	745
29	101	60	e48	e35	---	24	312	893	1020	328	546	627
30	96	58	e48	36	---	23	337	873	1090	347	500	547
31	87	---	e47	35	---	24	---	878	---	473	563	---
TOTAL	6564	2096	1551	1298	847	796	2199	23544	35409	17841	12855	25549
MEAN	212	69.9	50.0	41.9	30.2	25.7	73.3	759	1180	576	415	852
MAX	1030	95	59	47	33	30	337	1160	1850	1110	744	2120
MIN	87	56	42	34	27	23	23	296	829	281	218	428
MED	160	67	49	43	30	26	34	850	1040	493	374	717
AC-FT	13020	4160	3080	2570	1680	1580	4360	46700	70230	35390	25500	50680
CFSM	3.42	1.13	0.81	0.68	0.49	0.41	1.18	12.3	19.1	9.30	6.70	13.8
IN.	3.94	1.26	0.93	0.78	0.51	0.48	1.32	14.15	21.28	10.72	7.73	15.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2005, BY WATER YEAR (WY)#

MEAN	143	63.6	40.7	31.1	25.0	20.6	26.4	233	669	492	404	309
MAX	391	134	61.7	54.1	41.2	29.7	73.3	759	1215	1047	909	852
(WY)	1984	1980	1980	1961	1982	1991	2005	2005	1977	1963	1971	2005
MIN	51.3	24.5	17.4	17.5	14.0	10.0	10.0	52.9	276	193	165	82.2
(WY)	1969	1969	1955	1959	1952	1956	1955	1971	1996	1996	2004	1969

\# See Period of Record for remark on low-flow records; partial year was used in monthly statistics
e Estimated

15290000 LITTLE SUSITNA RIVER NEAR PALMER—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1948 - 2005#	
ANNUAL TOTAL	55882		130549			
ANNUAL MEAN	153		358		205	
HIGHEST ANNUAL MEAN					358	2005
LOWEST ANNUAL MEAN					95.8	1969
HIGHEST DAILY MEAN	1030	Oct 1	2120	Sep 10	5040	Aug 10 1971
LOWEST DAILY MEAN	a21	Mar 1	b23	Mar 30	c8.0	Apr 1 1956
ANNUAL SEVEN-DAY MINIMUM	21	Feb 27	23	Mar 30	8.0	Apr 1 1956
MAXIMUM PEAK FLOW			2760	Sep 10	d7840	Aug 10 1971
MAXIMUM PEAK STAGE			6.36	Sep 10	f13.00	Aug 10 1971
INSTANTANEOUS LOW FLOW					8.0	Apr 1 1956
ANNUAL RUNOFF (AC-FT)	110800		258900		148500	
ANNUAL RUNOFF (CFSM)	2.47		5.78		3.31	
ANNUAL RUNOFF (INCHES)	33.58		78.46		44.99	
10 PERCENT EXCEEDS	387		1000		566	
50 PERCENT EXCEEDS	95		113		70	
90 PERCENT EXCEEDS	23		27		21	

\# See Period of Record for remark on low-flow records; partial year was used in monthly statistics
a Mar. 1 to 4
b Mar. 30 and Apr. 2 to 5
c Apr. 1 to Apr. 20, 1956; and Mar. 11 and 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

15292000 SUSITNA RIVER AT GOLD CREEK

LOCATION.--Lat 62°46'04", long 149°41'28", in NW¼ sec. 20, T. 31 N., R. 2 W. (Talkeetna Mts. D-6 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020501, near left bank under Alaska Railroad bridge, 0.1 mi downstream from Gold Creek, 0.9 mi north of Gold Creek railroad station, and 2.0 mi. downstream from Indian River.

DRAINAGE AREA.--6,160 mi^2, approximately.

PERIOD OF RECORD.--August 1949 to September 1996 and May 2001 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 676.50 ft above sea level. Prior to June 6, 1957, non-recording gage at same site and datum. June 7, 1957 to June 2, 1964, water-stage recorder at site 0.3 mi upstream at same datum.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4790	e1800	e1700	e1500	e1300	e1100	e1100	19700	33600	31400	e21000	19400
2	e4700	e1800	e1700	e1500	e1300	e1100	e1100	22100	34000	32100	e20000	19300
3	e4600	e1700	e1700	e1500	e1300	e1100	e1100	20900	33100	31900	e21000	16700
4	e4500	e1600	e1600	e1500	e1300	e1100	e1200	19900	31100	32200	e20000	15600
5	e4400	e1500	e1600	e1500	e1300	e1100	e1200	18900	30400	33200	e21000	18200
6	e4300	e1400	e1600	e1500	e1300	e1100	e1200	17400	32300	31600	e23000	21800
7	e4200	e1300	e1600	e1500	e1300	e1100	e1300	16500	32700	30300	e22000	26300
8	e4100	e1400	e1600	e1500	e1300	e1100	e1300	18200	32600	29600	e21000	28200
9	e4000	e1500	e1600	e1500	e1300	e1100	e1300	21300	32200	29700	e20000	26000
10	e3900	e1600	e1600	e1500	e1300	e1100	e1300	23300	32800	27800	e22000	30500
11	e3800	e1700	e1600	e1500	e1300	e1100	e1400	24500	33900	27700	e24000	31400
12	e3600	e1900	e1600	e1500	e1200	e1100	e1400	26000	34100	27900	e26000	29600
13	e3500	e2000	e1600	e1500	e1200	e1100	e1500	27100	34300	28300	e27000	28400
14	e3500	e2000	e1600	e1500	e1200	e1100	e1500	29600	37200	26400	e28000	26600
15	e3400	e2000	e1600	e1500	e1200	e1000	e1600	32300	38700	25100	e27000	24100
16	e3300	e1900	e1600	e1400	e1200	e1000	e1600	34600	39400	25300	e26000	22300
17	e3200	e1900	e1600	e1400	e1200	e1000	e1700	33200	39200	27700	e25000	21400
18	e3000	e1900	e1600	e1400	e1200	e1000	e1700	29300	40700	27200	e24000	22000
19	e2900	e1900	e1600	e1400	e1200	e1000	e1800	27100	45200	26100	e23000	20500
20	e2800	e1800	e1600	e1400	e1200	e1000	e2000	26700	40700	26800	18000	18400
21	e2700	e1800	e1600	e1400	e1200	e1000	e2100	29100	39300	27300	17600	17200
22	e2600	e1800	e1600	e1400	e1200	e1000	e2300	30900	35600	24800	20200	17000
23	e2600	e1800	e1600	e1400	e1200	e1000	e2400	31400	32700	21600	21800	19500
24	e2500	e1800	e1600	e1400	e1200	e1000	e2600	31900	30800	22600	20700	25500
25	e2500	e1700	e1600	e1400	e1200	e1000	e2700	31400	30600	23400	25100	27900
26	e2400	e1700	e1600	e1400	e1200	e1000	e3000	31800	31500	22300	24200	28800
27	e2300	e1700	e1600	e1400	e1200	e1000	3220	33000	30600	21200	21600	23600
28	e2200	e1700	e1600	e1400	e1200	e1000	4210	32700	30000	21100	18000	21100
29	e2100	e1700	e1600	e1300	---	e1000	e9500	31200	30200	22100	17600	19600
30	e2000	e1700	e1600	e1300	---	e1000	e18000	30900	30200	22100	17300	18800
31	e1900	---	e1600	e1300	---	e1000	---	32300	---	22800	18100	---
TOTAL	102290	52000	49900	44600	34700	32400	78330	835200	1029700	829600	681200	685700
MEAN	3300	1733	1610	1439	1239	1045	2611	26940	34320	26760	21970	22860
MAX	4790	2000	1700	1500	1300	1100	18000	34600	45200	33200	28000	31400
MIN	1900	1300	1600	1300	1200	1000	1100	16500	30000	21100	17300	15600
AC-FT	202900	103100	98980	88460	68830	64270	155400	1657000	2042000	1646000	1351000	1360000
CFSM	0.54	0.28	0.26	0.23	0.20	0.17	0.42	4.37	5.57	4.34	3.57	3.71
IN.	0.62	0.31	0.30	0.27	0.21	0.20	0.47	5.04	6.22	5.01	4.11	4.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005, BY WATER YEAR (WY)#

MEAN	6255	2690	1885	1586	1410	1285	1692	13810	26900	23980	21340	13740
MAX	12680	5394	3264	2452	2243	1900	4250	26940	50580	34400	37870	26510
(WY)	1987	2003	1958	1961	2003	1968	1990	2005	1964	1963	1981	1990
MIN	3124	1215	866	724	723	713	745	3745	15500	16010	8879	5093
(WY)	1970	1970	1970	1969	1969	1964	1964	1971	1969	1996	1969	1969

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1949 - 2005#	
ANNUAL TOTAL	3260740		4455620			
ANNUAL MEAN	8909		12210		9753	
HIGHEST ANNUAL MEAN					13020	1990
LOWEST ANNUAL MEAN					5597	1969
HIGHEST DAILY MEAN	40600	May 9	45200	Jun 19	85900	Jun 7 1964
LOWEST DAILY MEAN	a1000	Mar 22	b1000	Mar 15	c600	Feb 16 1950
ANNUAL SEVEN-DAY MINIMUM	1000	Mar 22	1000	Mar 15	614	Feb 16 1950
MAXIMUM PEAK FLOW			50200	Jun 19	90700	Jun 7 1964
MAXIMUM PEAK STAGE			12.95	Jun 19	16.58	Jun 7 1964
MAXIMUM PEAK STAGE					d24.48	May 10 1954
ANNUAL RUNOFF (AC-FT)	6468000		8838000		7066000	
ANNUAL RUNOFF (CFSM)	1.45		1.98		1.58	
ANNUAL RUNOFF (INCHES)	19.69		26.91		21.51	
10 PERCENT EXCEEDS	24300		31400		25600	
50 PERCENT EXCEEDS	2800		2600		3400	
90 PERCENT EXCEEDS	1200		1200		1100	

\# See Period of Record; partial years used in monthly statistics and break in record
a Mar. 22-31
b Mar. 15-31
c Feb. 16-20, 1950
d Maximum observed, ice jam
e Estimated

15292700 TALKEETNA RIVER NEAR TALKEETNA
(Hydrologic Bench-Mark Station)

LOCATION.--Lat 62°20'49", long 150°01'01", in NE$^1/_4$ 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 RECORDS.-- WRD AK 2000-1: Drainage Area.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4770	1310	1530	e700	e600	e550	e700	9960	17100	13100	8380	8380
2	3400	1110	1130	e700	e600	e550	e800	10200	16300	13100	8090	7530
3	3020	e1000	912	e700	e600	e600	e800	10000	14600	12900	8320	6990
4	3030	e900	e800	e700	e600	e600	e800	9510	14400	12300	8100	7550
5	3010	e800	e700	e700	e600	e600	e800	9400	15400	12000	8460	8190
6	2980	e700	e600	e700	e600	e600	e800	8610	17700	11700	8630	9070
7	3030	e600	e600	e700	e600	e600	e800	8320	17800	11800	8280	13500
8	3120	e500	e650	e700	e600	e650	e800	9840	17300	11500	8000	11700
9	3000	e600	e650	e700	e600	e650	e850	11100	15200	11100	7910	10600
10	2910	e800	e650	e700	e600	e650	e850	11900	16000	11200	8450	22000
11	2850	e1000	e650	e700	e600	e650	e900	12800	19100	11400	9090	18300
12	2690	e1600	e700	e700	e600	e650	e900	13800	19200	11300	9710	15300
13	2640	e1500	e700	e700	e600	e700	e900	14600	18400	10500	10000	14800
14	3960	1420	e800	e700	e600	e700	e900	15900	21000	9840	9990	12300
15	4560	1160	e800	e700	e600	e700	e900	15900	22500	9410	9830	11000
16	3760	e1100	e800	e700	e600	e700	e950	15900	22300	10800	9300	10400
17	3180	e1150	e800	e700	e550	e700	e950	15300	21500	11900	8580	9940
18	2720	e1200	e800	e700	e550	e700	e1000	13700	21300	12000	8390	9760
19	2770	e1300	e800	e700	e550	e700	e1000	14600	21500	13100	8320	8600
20	2680	e1400	e750	e700	e550	e700	e1100	15500	17600	12700	7750	7980
21	2600	e1500	e750	e650	e550	e700	1300	17600	14700	11500	8150	7680
22	2320	e1550	e750	e650	e550	e700	1390	18400	13700	10200	7950	8200
23	2140	e1550	e750	e650	e550	e700	2130	18300	12700	9770	7710	10300
24	2140	e1500	e750	e650	e550	e700	3100	18500	11800	9680	10000	14900
25	1860	e1500	e750	e650	e550	e700	3410	18700	12000	9210	10400	13900
26	1980	e1400	e750	e650	e550	e700	3570	18300	12500	8700	10000	12500
27	2090	e1400	e750	e650	e550	e700	4210	18200	12400	8390	8660	10800
28	1970	e1350	e750	e650	e550	e700	5260	17800	12400	9070	7490	9710
29	1860	1600	e750	e650	---	e700	7870	15800	12500	9990	8890	8760
30	1720	2250	e750	e650	---	e700	9260	15700	13300	9500	8810	8130
31	1380	---	e750	e650	---	e700	---	17400	---	9570	7970	---
TOTAL	86140	36750	24072	21150	16200	20650	59000	441540	494200	339230	269610	328770
MEAN	2779	1225	777	682	579	666	1967	14240	16470	10940	8697	10960
MAX	4770	2250	1530	700	600	700	9260	18700	22500	13100	10400	22000
MIN	1380	500	600	650	550	550	700	8320	11800	8390	7490	6990
AC-FT	170900	72890	47750	41950	32130	40960	117000	875800	980200	672900	534800	652100
CFSM	1.39	0.61	0.39	0.34	0.29	0.33	0.99	7.14	8.25	5.48	4.36	5.49
IN.	1.61	0.68	0.45	0.39	0.30	0.38	1.10	8.23	9.21	6.32	5.02	6.13
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1964 - 2005, BY WATER YEAR (WY)#												
MEAN	2854	1202	833	675	572	515	705	5080	11010	10310	9081	5893
MAX	10000	2400	1122	996	990	1058	1967	14240	19040	15410	16770	12090
(WY)	1987	2003	1987	1990	1990	1990	2005	2005	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

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

15292700 TALKEETNA RIVER NEAR TALKEETNA—Continued
(Hydrologic Bench-Mark Station)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1964 - 2005#	
ANNUAL TOTAL	1309322		2137312			
ANNUAL MEAN	3577		5856		4074	
HIGHEST ANNUAL MEAN					5856	2005
LOWEST ANNUAL MEAN					2249	1969
HIGHEST DAILY MEAN	10900	Jun 8	22500	Jun 15	63200	Oct 11 1986
LOWEST DAILY MEAN	a460	Mar 24	500	Nov 8	b260	Feb 27 1982
ANNUAL SEVEN-DAY MINIMUM	460	Mar 24	550	Feb 17	260	Feb 27 1982
MAXIMUM PEAK FLOW			24300	Sep 10	75700	Oct 11 1986
MAXIMUM PEAK STAGE			10.51	Sep 10	17.38	Oct 11 1986
ANNUAL RUNOFF (AC-FT)	2597000		4239000		2952000	
ANNUAL RUNOFF (CFSM)	1.79		2.93		2.04	
ANNUAL RUNOFF (INCHES)	24.40		39.83		27.73	
10 PERCENT EXCEEDS	8840		15200		10600	
50 PERCENT EXCEEDS	1860		2250		1400	
90 PERCENT EXCEEDS	500		600		500	

\# See Period of Record; partial years used in monthly statistics
a Mar. 24-31
b From Feb. 27 to Mar. 20, 1982

15292800 MONTANA CREEK NEAR MONTANA

LOCATION (REVISED).--Lat 62°06'19", long 150°03'27", in NW¼ NW¼ sec. 8, T. 23 N., R. 4 W. (Talkeetna A-1 quad), Hydrologic Unit 19020505, on left bank, east side of Parks Highway, between Parks Highway bridge and pedestrian bridge, 2.1 miles north of Montana, Alaska.

DRAINAGE AREA.--164 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June 1963 to September 1972 and 1987, annual maximum; May to September 2005.

GAGE.--Water stage recorder and crest-stage gage. 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 at station.

EXTREMES FOR CURRENT YEAR.--Maximum discharge observed during the period, May to September 2005, 2,990 ft^3/s, September 24, gage height 7.76 ft, but may have been higher during estimated period; minimum discharge during period, 123 ft^3/s, August 21.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e1080	1290	438	392	457
2	---	---	---	---	---	---	---	e1100	1240	424	337	384
3	---	---	---	---	---	---	---	e1050	1110	398	393	372
4	---	---	---	---	---	---	---	e980	1090	360	355	611
5	---	---	---	---	---	---	---	e938	1160	324	328	666
6	---	---	---	---	---	---	---	e867	1230	331	287	815
7	---	---	---	---	---	---	---	e1010	1140	342	255	1390
8	---	---	---	---	---	---	---	e1160	1020	300	237	967
9	---	---	---	---	---	---	---	e1310	885	273	216	895
10	---	---	---	---	---	---	---	e1400	889	263	196	1850
11	---	---	---	---	---	---	---	e1510	1010	237	183	1310
12	---	---	---	---	---	---	---	e1620	963	223	169	1140
13	---	---	---	---	---	---	---	e1600	865	296	154	1180
14	---	---	---	---	---	---	---	e1620	892	280	144	889
15	---	---	---	---	---	---	---	e1640	917	227	140	759
16	---	---	---	---	---	---	---	e1530	1130	213	135	743
17	---	---	---	---	---	---	---	e1430	893	218	132	717
18	---	---	---	---	---	---	---	e1460	841	233	165	711
19	---	---	---	---	---	---	‡86	e1510	931	237	160	604
20	---	---	---	---	---	---	---	e1630	740	257	135	555
21	---	---	---	---	---	---	---	e2080	613	205	329	504
22	---	---	---	---	---	---	---	e2000	543	176	466	718
23	---	---	---	---	---	---	---	e1970	508	164	418	1030
24	---	---	---	---	---	---	---	e2200	458	152	602	1820
25	---	---	---	---	---	---	---	2260	433	145	770	1450
26	---	---	---	---	---	---	---	2020	443	154	687	1080
27	---	---	---	---	---	---	---	1790	446	178	541	882
28	---	---	---	---	---	---	---	1600	415	219	431	776
29	---	---	---	---	---	---	---	1370	381	193	568	682
30	---	---	---	---	---	---	---	1330	379	200	538	602
31	---	---	---	---	---	---	---	1330	---	481	440	---
TOTAL	---	---	---	---	---	---	---	46395	24855	8141	10303	26559
MEAN	---	---	---	---	---	---	---	1497	828	263	332	885
MAX	---	---	---	---	---	---	---	2260	1290	481	770	1850
MIN	---	---	---	---	---	---	---	867	379	145	132	372
AC-FT	---	---	---	---	---	---	---	92020	49300	16150	20440	52680
CFSM	---	---	---	---	---	---	---	9.13	5.05	1.60	2.03	5.40
IN.	---	---	---	---	---	---	---	10.52	5.64	1.85	2.34	6.02

‡ Result of discharge measurement
e Estimated

15292800 MONTANA CREEK NEAR MONTANA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-73, 1982-83, and June to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
JUN													
03...	1540	9	9	78.0	6.02	1110	20	3054	--	24	7.1	12.5	9.5
JUL													
07...	1400	9	9	83.0	4.84	344	10	3044	--	50	7.2	21.0	16.0
SEP													
23...	1350	9	9	69.0	5.97	1110	20	3054	1	36	7.1	13.3	9.0

Date	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water unfltrd recoverable, mg/L (00916)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, unfltrd recoverable, mg/L (00927)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Alkalinity, wat flt fxd end field, mg/L as CaCO3 (39036)
JUN													
03...	757	10.9	96	11	--	3.85	--	.385	1.11	.40	11	9	9.2
JUL													
07...	747	9.8	101	19	--	6.55	--	.608	1.84	.51	17	14	15
SEP													
23...	751	10.6	93	14	4.43	4.70	.57	.513	1.38	.66	14	11	12

Date	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)
JUN													
03...	2.6	.60	<.1	7.57	--	22	<.002	.091	<.010	.11	<.10	.019	<.004
JUL													
07...	4.4	1.36	<.1	8.51	35	32	E.001	.048	<.010	E.08	<.10	.007	.004
SEP													
23...	2.6	1.26	<.1	9.01	46	28	E.001	.148	E.005	.27	.28	.025	.008

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, unfltrd recoverable, ug/L (01105)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, unfltrd ug/L (01097)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, unfltrd recoverable, ug/L (01007)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, unfltrd recoverable, ug/L (01012)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, unfltrd recoverable, ug/L (01022)	Boron, water, fltrd, ug/L (01020)	Cadmium water, unfltrd ug/L (01027)
JUN													
03...	<.006	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
07...	<.006	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
23...	<.006	287	71	<.2	<.20	E.2	10	7	<.06	<.06	E4	<8	<.04

Date	Cadmium water, fltrd, ug/L (01025)	Chromium, water, unfltrd recoverable, ug/L (01034)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, unfltrd recoverable, ug/L (01037)	Cobalt water, fltrd, ug/L (01035)	Copper, water, unfltrd recoverable, ug/L (01042)	Copper, water, fltrd, ug/L (01040)	Iron, water, unfltrd recoverable, ug/L (01045)	Iron, water, fltrd, ug/L (01046)	Lead, water, unfltrd recoverable, ug/L (01051)	Lead, water, fltrd, ug/L (01049)	Lithium water unfltrd recoverable, ug/L (01132)	Lithium water, fltrd, ug/L (01130)
JUN													
03...	--	--	--	--	--	--	--	--	39	--	--	--	--
JUL													
07...	--	--	--	--	--	--	--	--	61	--	--	--	--
SEP													
23...	<.04	.26	.11	.214	.063	N	2.0	630	200	N	.37	.8	.8

15292800 MONTANA CREEK NEAR MONTANA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Manganese, water, unfltrd recoverable, ug/L (01055)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Mercury water, fltrd, ug/L (71890)	Molybdenum, water, unfltrd recoverable, ug/L (01062)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, unfltrd recoverable, ug/L (01067)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, unfltrd ug/L (01147)	Selenium, water, fltrd, ug/L (01145)	Silver, water, unfltrd recoverable, ug/L (01077)	Silver, water, fltrd, ug/L (01075)	Strontium, water, unfltrd recoverable, ug/L (01082)
JUN													
03...	--	2.5	--	--	--	--	--	--	--	--	--	--	--
JUL													
07...	--	4.4	--	--	--	--	--	--	--	--	--	--	--
SEP													
23...	18	5.9	E.01	<.01	.4	.4	.47	.41	E.05	<.4	<.16	<.2	20.6

Date	Strontium, water, fltrd, ug/L (01080)	Thallium, water, unfltrd ug/L (01059)	Thallium, water, fltrd, ug/L (01057)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, unfltrd recoverable, ug/L (01092)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water unfltrd ug/L (28011)	Uranium natural water, fltrd, ug/L (22703)	Organic carbon, water, fltrd, mg/L (00681)	Total carbon, suspnd sedimnt total, mg/L (00694)	Particulate nitrogen, susp, water, mg/L (49570)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
JUN													
03...	--	--	--	--	--	--	--	--	2.2	--	--	25	75
JUL													
07...	--	--	--	--	--	--	--	--	1.7	--	--	2	1.9
SEP													
23...	20.6	<.2	<.04	.4	E2	3.4	.087	.06	5.3	.8	.07	31	93

15294005 WILLOW CREEK NEAR WILLOW

LOCATION.--Lat 61°46'51", long 149°53'04", in NW¼ SE¼ sec. 31, T.20 N., R.3 W. (Anchorage D-8 quad), Matanuska-Susitna Borough, Hydrologic Unit 19020505, on the right bank, 0.9 mi downstream from unnamed tributary, 5.5 mi northeast of Willow, and 6.7 mi upstream from Deception Creek.

DRAINAGE AREA.--166 mi^2.

PERIOD OF RECORD.--June 1978 to September 1993, and May 2001 to current year.

REVISED RECORDS.--WRD-AK-80-1: 1979 (M).

GAGE.--Water-stage recorder. Elevation of gage is 350 ft above sea level from topographic map. Prior to April 2, 1981 at site 0.2 miles upstream at different datum.

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

EXTREMES FOR CURRENT YEAR.--Peak discharge greater than base discharge 2,300 ft^3/s and maximums (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Oct. 1	0000	*3630	*5.65	Aug. 21	1700	2450	4.89
May 25	0045	2770	5.11	Sept. 10	0545	2920	5.21
June 11	1215	2420	4.87	Sept. 24	0845	3230	5.41
June 18	2245	2680	5.05				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e2500	e170	201	e128	e99	e84	63	1120	1760	1210	621	1250
2	e1600	e155	195	e126	e99	e83	63	1140	1660	1070	663	1070
3	e1100	e148	163	e125	e98	e83	65	1100	1580	1070	573	943
4	1040	e143	118	e123	e98	e82	63	1030	1510	948	532	969
5	878	e140	e105	e122	e97	e82	62	988	1590	897	537	976
6	774	e140	e101	e120	e97	e81	64	917	1650	930	572	1280
7	730	e141	e96	e119	e96	e81	66	1070	1660	1020	494	1620
8	670	e143	e93	e117	e96	e80	64	1220	1580	937	457	1220
9	610	e145	e90	e116	e95	e79	66	1370	1380	863	431	1220
10	564	e150	e89	e114	e94	e79	66	1470	1540	888	411	2450
11	521	e152	e90	e113	e94	e78	68	1570	2260	826	395	1690
12	481	e163	e90	e111	e93	e78	70	1690	2020	778	376	1520
13	488	e178	e93	e110	e93	e77	71	1670	1810	719	364	1400
14	824	e183	e97	e110	e92	e77	73	1690	1940	646	351	1140
15	674	e180	e100	e109	e92	e76	76	1710	1980	597	375	1020
16	542	e176	e105	e109	e91	e76	76	1610	2100	580	339	975
17	479	172	e110	e108	e91	e75	78	1510	2030	554	319	916
18	e461	177	e115	e108	e90	e74	78	1550	2160	621	327	822
19	436	174	e125	e107	e89	e74	78	1610	2110	581	369	741
20	410	170	e135	e107	e89	e73	111	1730	1520	551	325	702
21	394	168	e140	e106	e88	e72	139	2190	1290	502	1170	669
22	329	163	e140	e105	e88	e72	263	2120	1230	468	1090	817
23	373	159	e139	e104	e87	e71	430	2090	1150	461	1070	1050
24	345	e157	e138	e104	e87	e71	531	2320	1090	598	1140	2660
25	282	e154	e137	e103	e86	e70	554	2390	1080	485	1190	2190
26	343	152	e136	e103	e86	e70	632	2220	1150	447	1040	1860
27	343	162	e135	e102	e85	e69	740	2120	1190	418	943	1430
28	315	231	e134	e102	e84	e68	861	1940	1130	398	804	1220
29	298	194	e132	e101	---	e67	1050	1740	1130	423	941	1060
30	282	178	e130	e101	---	65	1110	1710	1210	482	860	973
31	207	---	e129	e100	---	66	---	1700	---	753	1100	---
TOTAL	19293	4918	3801	3433	2574	2333	7731	50305	47490	21721	20179	37853
MEAN	622	164	123	111	91.9	75.3	258	1623	1583	701	651	1262
MAX	2500	231	201	128	99	84	1110	2390	2260	1210	1190	2660
MIN	207	140	89	100	84	65	62	917	1080	398	319	669
AC-FT	38270	9750	7540	6810	5110	4630	15330	99780	94200	43080	40030	75080
CFSM	3.75	0.99	0.74	0.67	0.55	0.45	1.55	9.78	9.54	4.22	3.92	7.60
IN.	4.32	1.10	0.85	0.77	0.58	0.52	1.73	11.27	10.64	4.87	4.52	8.48

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1978 - 2005, BY WATER YEAR (WY)#

MEAN	428	163	108	86.0	76.4	63.3	99.7	680	1044	667	597	660
MAX	1197	364	152	112	134	97.5	258	1623	1583	1287	1286	1262
(WY)	1987	1980	1980	1980	2003	1990	2005	2005	2005	1980	1981	2005
MIN	177	81.5	57.3	57.1	52.9	33.7	45.8	328	484	228	210	259
(WY)	1985	1985	1981	1981	1981	1982	2002	2003	1981	2004	2004	1978

\# See Period of Record; partial years were used in monthly statistics and break in record
e Estimated

15294005 WILLOW CREEK NEAR WILLOW—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1978 - 2005#	
ANNUAL TOTAL	104475		221631			
ANNUAL MEAN	285		607		397	
HIGHEST ANNUAL MEAN					607	2005
LOWEST ANNUAL MEAN					268	2004
HIGHEST DAILY MEAN	2500	Oct 1	2660	Sep 24	8670	Oct 11 1986
LOWEST DAILY MEAN	a46	Mar 30	62	Apr 5	30	Apr 6 2003
ANNUAL SEVEN-DAY MINIMUM	47	Mar 25	64	Mar 31	32	Apr 1 2003
MAXIMUM PEAK FLOW			3630	Oct 1	b12000	Oct 11 1986
MAXIMUM PEAK STAGE			5.65	Oct 1	9.01	Oct 11 1986
MAXIMUM PEAK STAGE					c9.40	Dec 18 1986
ANNUAL RUNOFF (AC-FT)	207200		439600		287800	
ANNUAL RUNOFF (CFSM)	1.72		3.66		2.39	
ANNUAL RUNOFF (INCHES)	23.41		49.67		32.51	
10 PERCENT EXCEEDS	769		1610		1000	
50 PERCENT EXCEEDS	158		339		198	
90 PERCENT EXCEEDS	55		78		62	

\# See Period of Record; partial years were used in monthly statistics and break in record
a Mar.30, 31
b From rating curve extended above 3,900 ft^3/s on basis of slope-area measurement of peak flow
c Backwater from ice

15294640 LAKE FORK CRESCENT RIVER NEAR TUXEDNI BAY

LOCATION.--Lat 60°21'29", long 152°49'07", in $SE^1/_4$ $SE^1/_4$ $SW^1/_4$ sec. 7, T.3 N., R.20 W. (Kenai B-8 quad), Kenai Peninsula Borough, Hydrologic Unit 19020602, on the right bank, 1.2 mi downstream from Crescent Lake outlet.

DRAINAGE AREA.--125 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--June to September 2005 (seasonal).

GAGE.--Water-stage recorder. Elevation of gage is 550 ft above sea level from topographic map.

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

EXTREMES FOR CURRENT PERIOD: June 2005 to September 2005, maximum discharge observed during period, 3,520 ft^3/s, June 19, gage-height, 14.85 ft, but may have been higher during estimated periods; minimum discharge not determined, occurs during winter.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	e2400	2800	1700	997
2	---	---	---	---	---	---	---	---	e2200	2750	1590	944
3	---	---	---	---	---	---	---	---	e2000	2700	1540	908
4	---	---	---	---	---	---	---	---	e2200	2610	1480	934
5	---	---	---	---	---	---	---	---	e2200	2530	1420	938
6	---	---	---	---	---	---	---	---	e2400	2480	1390	996
7	---	---	---	---	---	---	---	---	e2400	2470	1400	1030
8	---	---	---	---	---	---	---	---	e2600	2440	1410	1010
9	---	---	---	---	---	---	---	---	e2600	2440	1430	1060
10	---	---	---	---	---	---	---	---	e2400	2480	1470	1180
11	---	---	---	---	---	---	---	---	e2400	2470	1490	1160
12	---	---	---	---	---	---	---	---	e2200	2400	1520	1180
13	---	---	---	---	---	---	---	---	e2200	2390	1550	1190
14	---	---	---	---	---	---	---	---	e2200	2270	1580	1120
15	---	---	---	---	---	---	---	---	e2200	2140	1590	1130
16	---	---	---	---	---	---	---	---	e2200	2090	1540	1430
17	---	---	---	---	---	---	---	---	e2600	2060	1490	1500
18	---	---	---	---	---	---	---	---	e3200	2000	1520	1380
19	---	---	---	---	---	---	---	---	e3500	1960	1480	1230
20	---	---	---	---	---	---	---	---	e3400	1890	1450	1100
21	---	---	---	---	---	---	---	---	e3200	1850	1410	979
22	---	---	---	---	---	---	---	---	e3000	1790	1350	909
23	---	---	---	---	---	---	---	---	e2800	1700	1370	905
24	---	---	---	---	---	---	---	---	e2800	1640	1390	939
25	---	---	---	---	---	---	---	---	e2600	1880	1340	896
26	---	---	---	---	---	---	---	---	e2600	2150	1260	831
27	---	---	---	---	---	---	---	---	e2500	2130	1180	809
28	---	---	---	---	---	---	---	---	2560	2020	1130	819
29	---	---	---	---	---	---	---	---	2650	1910	1110	780
30	---	---	---	---	---	---	---	---	2760	1820	1060	732
31	---	---	---	---	---	---	---	---	---	1770	1040	---
TOTAL	---	---	---	---	---	---	---	---	76970	68030	43680	31016
MEAN	---	---	---	---	---	---	---	---	2566	2195	1409	1034
MAX	---	---	---	---	---	---	---	---	3500	2800	1700	1500
MIN	---	---	---	---	---	---	---	---	2000	1640	1040	732
AC-FT	---	---	---	---	---	---	---	---	152700	134900	86640	61520
CFSM	---	---	---	---	---	---	---	---	20.6	17.6	11.3	8.30
IN.	---	---	---	---	---	---	---	---	22.99	20.32	13.05	9.26

e Estimated

15294640 LAKE FORK CRESCENT RIVER NEAR TUXEDNI BAY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2004 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Stream width, feet (00004)	Sample location, cross section ft from rt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Specif. conduct- ance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)
JUN													
19...	1653	9	160	30.0	14.84	3520	10	30	6.6	8.6	15.0	741	12.3
19...	1655	9	160	80.0	14.84	3520	10	30	6.7	8.4	15.0	741	12.3
19...	1656	9	160	130.0	14.84	3520	10	30	6.7	8.4	15.0	741	12.3
27...	1639	9	157	30.0	13.55	2470	10	28	6.4	11.8	17.8	742	11.8
27...	1641	9	157	80.0	13.55	2470	10	28	6.6	12.1	17.8	742	11.8
27...	1642	9	157	130.0	13.55	2470	10	28	6.7	11.9	17.8	742	11.8
AUG													
02...	1426	9	157	30.0	12.74	1580	10	17	6.2	10.9	13.9	745	10.9
02...	1428	9	157	80.0	12.74	1580	10	17	6.3	10.9	13.9	745	10.8
02...	1430	9	157	130.0	12.74	1580	10	17	6.3	10.8	13.9	745	10.8
SEP													
07...	1333	9	144	24.0	11.79	1040	10	22	5.9	11.2	13.5	746	10.1
07...	1335	9	144	72.0	11.79	1040	10	22	6.0	10.9	13.5	746	10.1
07...	1336	9	144	120.0	11.79	1040	10	22	6.0	10.9	13.5	746	10.1

Date	Dissolved oxygen, percent of saturation (00301)	Turbidity, IR LED light, det ang 90 deg, FNU (63680)
JUN		
19...	108	7.2
19...	108	8.1
19...	108	8.0
27...	112	5.0
27...	112	5.1
27...	112	4.8
AUG		
02...	101	11
02...	100	11
02...	100	12
SEP		
07...	94	8.1
07...	94	8.0
07...	93	8.0

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	171	129	117	78	87	97	82	301	247	188	194	174
2	229	141	104	78	81	95	85	316	233	199	270	171
3	226	147	87	117	78	91	91	322	221	196	692	165
4	214	137	84	133	78	97	101	277	246	191	356	166
5	237	137	83	104	78	103	110	614	257	192	227	167
6	190	137	82	92	88	139	110	1630	227	211	203	168
7	178	137	77	83	86	201	109	798	302	214	199	162
8	166	130	72	77	81	333	109	444	269	209	200	160
9	165	273	75	70	78	211	113	346	296	205	186	163
10	157	238	71	67	68	273	115	329	382	209	185	162
11	284	184	79	66	70	190	116	333	606	205	180	161
12	318	312	70	79	66	166	118	784	988	237	176	160
13	268	326	65	86	84	165	119	659	456	253	176	158
14	233	216	64	85	122	152	119	698	303	230	176	156
15	212	179	155	91	93	137	117	476	256	214	173	159
16	201	147	202	84	94	123	120	341	256	211	173	159
17	189	123	134	78	94	115	121	279	271	196	176	162
18	180	140	162	75	122	111	126	288	467	200	182	166
19	178	208	121	74	107	107	142	282	255	212	180	159
20	171	166	97	78	119	106	172	326	204	203	178	157
21	166	137	113	213	116	101	273	409	188	198	189	155
22	163	149	284	248	124	97	340	346	200	197	181	156
23	170	186	212	172	120	95	246	308	191	204	179	157
24	166	166	136	142	130	93	250	313	177	232	176	159
25	165	136	116	207	123	92	243	291	203	283	172	156
26	171	124	117	163	116	91	277	267	198	270	167	166
27	165	175	106	134	106	88	309	282	203	251	160	209
28	162	161	81	119	100	85	303	291	308	233	174	210
29	157	133	73	113	---	83	395	297	241	204	179	193
30	147	118	75	115	---	81	396	396	216	199	177	174
31	149	---	80	104	---	81	---	323	---	199	173	---
TOTAL	5948	5092	3394	3425	2709	3999	5327	13366	8867	6645	6409	4990
MEAN	192	170	109	110	96.8	129	178	431	296	214	207	166
MAX	318	326	284	248	130	333	396	1630	988	283	692	210
MIN	147	118	64	66	66	81	82	267	177	188	160	155
AC-FT	11800	10100	6730	6790	5370	7930	10570	26510	17590	13180	12710	9900

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1986 - 2005, BY WATER YEAR (WY)#

MEAN	296	205	151	130	116	102	173	335	481	352	273	274
MAX	722	631	313	267	205	152	247	457	872	1070	662	707
(WY)	2004	2003	1986	2003	2003	1998	1993	2004	1987	1987	1988	1995
MIN	192	93.8	78.4	81.8	72.6	60.9	115	231	296	214	183	166
(WY)	1998	1995	1988	1989	1989	1986	1986	2003	2005	2005	1994	2005

See Period of Record; break in record, and Remarks

15295700 TERROR RIVER AT MOUTH NEAR KODIAK—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1986 - 2005#	
ANNUAL TOTAL	78159		70171			
ANNUAL MEAN	214		192		241	
HIGHEST ANNUAL MEAN					369	1987
LOWEST ANNUAL MEAN					192	2005
HIGHEST DAILY MEAN	1310	May 24	1630	May 6	4610	Sep 20 1995
LOWEST DAILY MEAN	64	Dec 14	64	Dec 14	a26	Dec 11 1996
ANNUAL SEVEN-DAY MINIMUM	71	Dec 8	71	Dec 8	39	Nov 19 1985
MAXIMUM PEAK FLOW			1750	May 6	b10000	Sep 19 1995
MAXIMUM PEAK STAGE			3.79	May 6	7.67	Sep 19 1995
INSTANTANEOUS LOW FLOW			53	Jan 11	a9.8	Dec 11 1996
ANNUAL RUNOFF (AC-FT)	155000		139200		174700	
10 PERCENT EXCEEDS	408		308		458	
50 PERCENT EXCEEDS	172		166		184	
90 PERCENT EXCEEDS	86		83		86	

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	c19	Feb 23	1967
ANNUAL SEVEN-DAY MINIMUM	20	Feb 23	1967
INSTANTANEOUS PEAK FLOW	3820	Sep 26	1966
INSTANTANEOUS PEAK STAGE	d6.48	Sep 26	1966
INSTANTANEOUS PEAK STAGE	f7.54	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; break in record, and Remarks
a Occurred while dam release valve was closed for repair
b From rating curve extended above 960 ft^3/s on basis of slope-area measurement of peak flow
c Feb. 23 and Mar. 1, 1967
d Site and datum then in use
f 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 0.5°C. Probe was faulty from September 6 to 28. Temperature at the sensor was compared with the average for the river by cross section on June 8 with a variation of 1.6°C found in the cross secton at the sensor location. A gravel bar running parallel to the channel formed in the 2003 water year and has remained in place at the sensor location. The channel opposite the sensor is shallow with lower velocities, and has backwater which results in an increase in water temperature. Most of the discharge is in the right channel where the probe is located. No variation was found between median stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 15.0°C, July 15, 2003; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 13.0°C, July 8; minimum, 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUN							
08...	1042	89.0	87.0	1.86	261	5.3	13.4
08...	1043	89.0	72.0	1.86	261	5.3	13.4
08...	1044	89.0	57.0	1.86	261	5.3	13.4
08...	1045	89.0	42.0	1.86	261	5.2	13.4
08...	1046	89.0	27.0	1.86	261	6.3	13.4
08...	1047	89.0	12.0	1.86	261	6.7	13.4
08...	1048	89.0	2.00	1.86	261	6.8	13.4

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
	OCTOBER			NOVEMBER			DECEMBER			JANUARY		
1	7.0	6.0	7.0	4.0	2.5	2.5	3.0	2.0	2.5	1.0	0.0	0.5
2	7.5	6.0	7.0	4.0	2.0	3.0	2.0	1.0	2.0	1.5	1.0	1.5
3	7.5	6.5	7.0	3.5	1.5	3.0	1.0	0.5	1.0	1.5	1.0	1.5
4	7.0	6.5	6.5	1.5	1.5	1.5	1.0	0.5	0.5	1.5	1.0	1.5
5	7.5	6.5	7.0	3.0	1.5	2.0	1.0	0.5	1.0	1.0	0.0	0.5
6	7.0	5.5	6.5	3.0	2.0	2.5	2.0	0.5	1.5	0.5	0.0	0.0
7	7.0	6.0	6.5	3.5	2.5	3.0	1.5	1.0	1.0	0.5	0.0	0.0
8	7.0	5.0	6.0	3.0	2.0	2.5	1.5	1.0	1.5	0.5	0.0	0.0
9	7.0	6.0	6.5	3.0	2.5	3.0	1.5	0.5	1.0	0.5	0.0	0.0
10	7.0	5.5	6.0	3.0	2.5	2.5	1.5	1.0	1.0	0.5	0.0	0.5
11	7.0	6.0	6.5	3.5	2.0	3.0	1.5	1.0	1.0	0.5	0.0	0.0
12	6.5	5.5	6.0	4.0	3.5	3.5	1.5	1.0	1.0	0.5	0.0	0.0
13	7.0	5.5	6.5	4.0	3.5	3.5	1.5	0.5	1.0	0.5	0.0	0.5
14	6.5	5.5	6.0	3.5	3.0	3.5	1.0	0.5	0.5	0.5	0.0	0.5
15	6.0	4.5	5.5	3.5	2.0	2.5	1.5	1.0	1.0	1.0	0.0	0.5
16	7.0	5.5	6.0	2.0	1.0	1.5	1.5	1.0	1.5	1.5	1.0	1.5
17	6.5	5.0	5.5	1.5	0.5	1.0	2.0	1.0	1.5	1.5	0.5	1.0
18	6.5	4.5	5.0	2.0	1.5	2.0	2.0	1.5	2.0	1.0	0.5	0.5
19	7.0	5.5	6.5	2.5	2.0	2.5	1.5	0.0	1.0	1.0	0.5	1.0
20	6.0	4.5	5.0	3.0	2.0	2.5	0.5	0.0	0.0	1.5	1.0	1.0
21	6.0	5.0	5.5	3.0	1.5	2.0	1.0	0.5	0.5	1.5	1.0	1.0
22	6.0	5.0	5.5	3.5	2.5	3.0	2.0	1.0	1.5	1.5	1.0	1.5
23	6.5	5.0	6.0	3.5	2.5	3.0	1.5	0.0	0.5	2.0	1.5	1.5
24	5.5	4.5	5.0	3.0	2.0	2.5	0.0	0.0	0.0	2.0	1.0	1.5
25	5.0	4.0	4.5	2.5	1.5	2.0	0.0	0.0	0.0	2.5	1.5	2.0
26	6.0	5.0	5.5	3.5	2.0	2.5	0.5	0.0	0.0	2.0	1.0	1.5
27	6.0	5.0	5.5	4.5	3.0	4.0	0.5	0.0	0.5	1.0	0.0	0.5
28	5.5	4.5	5.0	3.0	2.0	2.0	0.0	0.0	0.0	1.5	0.0	1.0
29	4.5	3.5	4.5	3.5	2.0	3.0	0.5	0.0	0.0	2.0	1.0	1.5
30	4.0	3.0	3.5	2.5	2.0	2.0	0.5	0.0	0.5	2.0	0.5	1.5
31	4.0	3.5	4.0	---	---	---	0.5	0.5	0.5	1.0	0.0	0.5
MONTH	7.5	3.0	5.8	4.5	0.5	2.6	3.0	0.0	0.9	2.5	0.0	0.9

15295700 TERROR RIVER AT MOUTH NEAR KODIAK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	0.5	0.0	0.0	1.5	0.0	0.5	7.0	2.0	4.0
2	0.0	0.0	0.0	1.0	0.0	0.5	2.5	0.5	1.5	5.0	3.0	4.0
3	0.5	0.0	0.0	2.0	1.0	1.5	3.0	0.0	1.0	6.0	2.0	4.0
4	0.5	0.0	0.0	2.5	1.5	1.5	2.0	0.0	1.0	6.5	2.5	4.0
5	0.5	0.0	0.0	3.0	1.0	2.0	0.5	0.0	0.0	4.5	2.5	3.5
6	0.5	0.0	0.5	1.5	1.0	1.5	4.0	0.5	2.0	3.5	2.5	3.0
7	0.5	0.0	0.5	3.0	1.0	2.0	4.0	1.0	2.0	5.5	2.5	4.0
8	0.5	0.0	0.5	2.5	1.0	1.5	4.0	0.5	2.0	7.0	2.0	4.0
9	0.5	0.0	0.0	3.0	1.0	2.0	3.0	1.5	2.0	8.0	2.5	4.5
10	0.0	0.0	0.0	2.0	1.0	1.5	3.5	1.5	2.0	6.5	3.0	4.5
11	0.5	0.0	0.0	2.5	1.0	2.0	5.0	1.0	2.5	7.5	2.5	4.5
12	0.5	0.0	0.0	3.5	1.5	2.5	4.5	0.5	2.0	4.5	3.0	4.0
13	0.5	0.0	0.0	3.5	2.0	2.5	4.5	0.5	2.0	5.0	3.0	3.5
14	0.5	0.0	0.0	3.5	1.0	2.0	4.0	1.0	2.5	6.0	3.0	4.0
15	0.5	0.0	0.0	3.0	1.0	2.0	5.0	1.5	3.0	6.5	3.0	4.0
16	1.5	0.0	0.5	3.5	1.0	2.0	5.0	1.0	2.5	6.5	2.5	4.5
17	2.0	0.5	1.0	3.5	1.0	2.0	5.0	0.5	2.5	6.5	3.5	4.5
18	2.0	0.5	1.0	3.5	1.0	2.0	6.0	2.0	3.5	6.5	4.0	5.0
19	1.5	0.0	0.5	3.5	0.5	1.5	5.5	2.0	3.5	8.0	2.5	5.0
20	2.0	1.0	1.5	3.5	0.5	1.5	7.5	2.5	4.0	6.0	4.0	5.0
21	2.0	0.5	1.0	2.5	0.0	1.0	4.5	2.0	3.0	6.0	3.5	4.5
22	1.5	0.5	1.0	3.0	0.5	1.0	4.0	1.5	3.0	6.5	3.5	5.0
23	2.0	1.0	1.0	2.5	0.0	1.5	4.5	2.5	3.5	7.0	4.0	5.5
24	1.5	1.0	1.0	3.5	1.5	2.0	6.5	2.5	4.0	8.0	4.0	5.5
25	2.0	1.0	1.5	3.0	2.0	2.5	6.5	1.5	4.0	7.0	3.5	5.0
26	2.0	0.5	1.0	3.0	1.0	2.0	6.5	2.5	4.0	6.0	4.0	5.0
27	1.0	0.0	0.5	2.5	0.5	1.0	6.0	2.0	4.0	6.5	4.0	5.0
28	0.5	0.0	0.0	2.5	0.5	1.5	7.5	2.5	4.5	6.5	4.0	5.0
29	---	---	---	3.5	0.5	1.5	7.5	2.5	4.0	6.5	4.0	5.0
30	---	---	---	0.5	0.0	0.5	6.5	2.0	4.0	6.5	4.0	5.0
31	---	---	---	0.5	0.0	0.0	---	---	---	7.5	3.0	5.0
MONTH	2.0	0.0	0.5	3.5	0.0	1.6	7.5	0.0	2.7	8.0	2.0	4.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.5	3.5	5.5	9.0	7.0	8.0	10.0	8.5	9.5	9.0	6.5	7.5
2	8.0	4.5	6.0	10.0	7.0	8.5	10.5	8.5	9.5	9.0	6.0	7.0
3	9.0	3.5	6.0	10.5	7.5	9.0	10.5	9.5	10.0	9.5	7.0	8.0
4	9.5	4.0	6.5	11.0	7.0	9.0	12.0	9.0	10.0	9.0	7.5	8.0
5	9.5	4.0	6.5	11.5	7.0	9.5	12.0	9.0	10.5	8.5	7.0	7.5
6	6.5	4.0	5.5	12.0	7.5	9.5	12.5	9.0	10.5	---	---	---
7	6.5	5.0	5.5	12.5	7.5	9.5	12.5	9.0	10.5	---	---	---
8	6.5	4.0	5.0	13.0	7.5	10.0	12.5	8.5	10.5	---	---	---
9	6.0	4.5	5.5	12.5	7.5	10.0	11.5	9.5	10.5	---	---	---
10	6.5	4.5	5.5	12.5	8.0	10.0	12.0	9.0	10.5	---	---	---
11	5.5	4.5	5.0	12.5	7.5	9.5	12.0	8.5	10.0	---	---	---
12	6.0	5.0	5.5	9.5	8.0	9.0	12.5	8.0	10.0	---	---	---
13	8.5	4.5	6.0	9.5	7.5	8.5	11.5	9.0	10.0	---	---	---
14	9.0	4.5	6.5	11.0	8.0	9.0	10.0	8.5	9.5	---	---	---
15	10.0	5.0	7.0	10.5	7.5	9.0	10.0	9.0	9.5	---	---	---
16	10.5	5.0	7.5	9.5	8.0	9.0	9.5	9.0	9.0	---	---	---
17	7.5	5.0	6.5	12.0	8.0	9.5	11.0	9.0	9.5	---	---	---
18	8.5	5.5	6.5	12.0	8.0	9.5	10.0	9.0	9.5	---	---	---
19	8.5	5.0	6.0	11.0	7.5	9.0	11.5	8.0	9.5	---	---	---
20	10.0	5.0	7.0	12.0	8.0	9.5	10.5	8.0	9.0	---	---	---
21	8.0	5.0	6.5	10.0	8.0	9.0	11.0	8.5	9.5	---	---	---
22	7.5	6.0	6.5	10.5	8.0	9.0	10.5	7.5	8.5	---	---	---
23	8.0	6.0	7.0	10.0	8.5	9.0	11.0	8.5	9.5	---	---	---
24	9.5	6.5	7.5	10.0	8.0	9.0	9.0	8.0	8.5	---	---	---
25	8.5	7.0	7.5	10.5	8.0	9.0	8.5	7.5	8.0	---	---	---
26	12.0	7.0	9.0	9.5	8.0	8.5	9.5	7.5	8.5	---	---	---
27	8.5	6.5	7.5	9.0	8.0	8.5	10.0	7.0	8.0	---	---	---
28	8.5	7.0	7.5	10.5	8.0	9.0	10.0	8.0	8.5	---	---	---
29	12.0	6.5	9.0	11.0	8.5	9.5	9.0	8.0	8.5	8.0	7.0	7.5
30	12.0	7.0	9.0	12.0	8.5	10.0	9.5	7.5	8.5	8.5	6.0	7.0
31	---	---	---	11.0	8.5	9.5	9.5	7.0	8.0	---	---	---
MONTH	12.0	3.5	6.6	13.0	7.0	9.2	12.5	7.0	9.4	---	---	---

15297580 ALEC RIVER NEAR CHIGNIK

LOCATION.--Lat 56°27'14", long 158°54'58", in NW¼ SE¼ SE¼ sec. 17, T. 43 S., R. 61 W. (Chignik B-3 quad), Hydrologic Unit 19020702, on left bank, 0.7 mi upstream from mouth, and 15.4 mi northwest of the village of Chignik Lake.

DRAINAGE AREA.-- 122.71 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.-- May 2004 to September 2005 (discontinued.)

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 32 ft above sea level, from topographic map.

REMARKS.--Records are fair. Rain gage at station. GOES satellite telemetry at station.

COOPERATION.--Data collected in cooperation with the U.S. Army Corps of Engineers.

EXTREMES FOR WATER YEAR 2004.--Maximum discharge for period May 19 to September 30, 2004, 4,640 ft^3/s, June 4, gage height, 12.71 ft; minimum discharge not determined, occurs during the winter.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	881	2900	548	411
2	---	---	---	---	---	---	---	---	992	2290	535	441
3	---	---	---	---	---	---	---	---	2510	1970	541	428
4	---	---	---	---	---	---	---	---	3740	1590	535	448
5	---	---	---	---	---	---	---	---	2040	1330	554	400
6	---	---	---	---	---	---	---	---	1600	1170	541	372
7	---	---	---	---	---	---	---	---	1570	1050	489	367
8	---	---	---	---	---	---	---	---	1270	944	475	419
9	---	---	---	---	---	---	---	---	1070	913	465	372
10	---	---	---	---	---	---	---	---	987	905	456	385
11	---	---	---	---	---	---	---	---	958	832	455	367
12	---	---	---	---	---	---	---	---	934	766	440	369
13	---	---	---	---	---	---	---	---	1010	787	453	352
14	---	---	---	---	---	---	---	---	903	862	467	334
15	---	---	---	---	---	---	---	---	883	776	444	350
16	---	---	---	---	---	---	---	---	948	749	416	371
17	---	---	---	---	---	---	---	---	884	716	411	336
18	---	---	---	---	---	---	---	---	1350	647	413	450
19	---	---	---	---	---	---	---	‡974	1460	671	390	492
20	---	---	---	---	---	---	---	1030	1190	698	388	569
21	---	---	---	---	---	---	---	1210	1250	691	371	535
22	---	---	---	---	---	---	---	1650	1240	692	642	516
23	---	---	---	---	---	---	---	2190	1190	611	1490	500
24	---	---	---	---	---	---	---	1920	1110	584	866	454
25	---	---	---	---	---	---	---	1570	993	1040	639	481
26	---	---	---	---	---	---	---	1280	882	1080	575	701
27	---	---	---	---	---	---	---	1280	908	855	604	622
28	---	---	---	---	---	---	---	1170	897	740	528	653
29	---	---	---	---	---	---	---	1140	1290	662	487	652
30	---	---	---	---	---	---	---	1030	1740	622	446	627
31	---	---	---	---	---	---	---	936	---	576	426	---
TOTAL	---	---	---	---	---	---	---	---	38680	30719	16490	13774
MEAN	---	---	---	---	---	---	---	---	1289	991	532	459
MAX	---	---	---	---	---	---	---	---	3740	2900	1490	701
MIN	---	---	---	---	---	---	---	---	881	576	371	334
AC-FT	---	---	---	---	---	---	---	---	76720	60930	32710	27320
CFSM	---	---	---	---	---	---	---	---	10.5	8.08	4.33	3.74
IN.	---	---	---	---	---	---	---	---	11.73	9.31	5.00	4.18

‡ Result of discharge measurement

15297580 ALEC RIVER NEAR CHIGNIK—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	542	361	467	415	e670	478	e340	532	1150	749	541	1130
2	667	387	430	400	e660	491	e330	512	1120	698	518	963
3	616	418	387	393	e640	583	e320	557	1170	673	516	903
4	559	365	382	377	e620	635	e310	560	1070	655	501	1290
5	602	349	402	352	e670	855	e310	966	1040	607	464	1280
6	655	340	442	341	e640	708	e320	1860	1290	584	436	1310
7	731	347	381	e335	579	802	342	1270	1460	564	416	1230
8	649	326	363	e330	532	912	376	1010	1150	567	405	1080
9	611	418	360	e325	e480	925	375	924	1220	538	387	1070
10	593	418	410	e315	e460	813	343	911	1230	522	382	918
11	792	368	439	e320	e500	736	333	958	1260	508	398	842
12	892	362	372	e500	e560	695	322	1050	1410	571	375	785
13	798	365	365	e400	e650	639	331	1210	1150	571	356	705
14	729	363	355	328	693	602	329	1100	1020	506	351	658
15	668	381	559	1450	532	609	326	998	955	492	352	689
16	636	344	439	1710	671	575	321	928	909	506	404	640
17	608	345	403	1190	656	546	311	872	957	722	663	628
18	578	389	393	962	976	549	310	783	1140	639	709	796
19	565	479	373	847	735	528	308	714	941	549	600	985
20	511	420	364	767	774	513	300	677	817	518	623	992
21	495	413	434	744	688	483	372	634	807	497	600	828
22	491	429	834	695	691	462	416	588	1010	471	591	803
23	492	440	e660	625	636	448	364	564	884	451	617	757
24	470	413	e640	634	609	448	344	553	858	1050	743	699
25	451	414	e600	993	584	439	350	573	978	1030	637	644
26	454	406	e580	741	553	423	362	658	853	799	591	705
27	432	417	e560	677	522	420	428	1370	865	668	550	1700
28	417	401	e520	659	499	410	549	1180	851	748	600	1410
29	429	398	e600	905	---	399	557	1450	873	764	708	1570
30	401	388	e500	956	---	e380	538	1660	865	657	1470	1550
31	386	---	408	e750	---	e350	---	1310	---	588	1650	---
TOTAL	17920	11664	14422	20436	17480	17856	10837	28932	31303	19462	18154	29560
MEAN	578	389	465	659	624	576	361	933	1043	628	586	985
MAX	892	479	834	1710	976	925	557	1860	1460	1050	1650	1700
MIN	386	326	355	315	460	350	300	512	807	451	351	628
AC-FT	35540	23140	28610	40530	34670	35420	21500	57390	62090	38600	36010	58630
CFSM	4.71	3.17	3.79	5.37	5.09	4.69	2.94	7.61	8.50	5.12	4.77	8.03
IN.	5.43	3.54	4.37	6.20	5.30	5.41	3.29	8.77	9.49	5.90	5.50	8.96

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

MEAN	578	389	465	659	624	576	361	933	1166	809	559	722
MAX	578	389	465	659	624	576	361	933	1289	991	586	985
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004	2005	2005
MIN	578	389	465	659	624	576	361	933	1043	628	532	459
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005#	
ANNUAL TOTAL	238026			
ANNUAL MEAN	652		652	
HIGHEST ANNUAL MEAN			652	2005
LOWEST ANNUAL MEAN			652	2005
HIGHEST DAILY MEAN	1860	May 6	3740	Jun 4 2004
LOWEST DAILY MEAN	300	Apr 20	300	Apr 20 2005
ANNUAL SEVEN-DAY MINIMUM	315	Apr 14	315	Apr 14 2005
MAXIMUM PEAK FLOW	2260	May 6	4640	Jun 4 2004
MAXIMUM PEAK STAGE	11.34	May 6	12.71	Jun 4 2004
INSTANTANEOUS LOW FLOW	a293	Apr 20	a293	Apr 20 2005
ANNUAL RUNOFF (AC-FT)	472100		472400	
ANNUAL RUNOFF (CFSM)	5.31		5.31	
ANNUAL RUNOFF (INCHES)	72.16		72.21	
10 PERCENT EXCEEDS	1070		1070	
50 PERCENT EXCEEDS	580		580	
90 PERCENT EXCEEDS	352		352	

\# See Period of Record; partial year was used in monthly statistics.
a Apr. 20-21
e Estimated

15297580 ALEC RIVER NEAR CHIGNIK—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2004 to September 2005 (discontinued).

PERIOD OF DAILY RECORD.--May 2004 to September 2005 (discontinued).

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

REMARKS.--Probe installed on May 20, 2004. 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 September 15, 2004 and May 4, 2005. Variations found in the cross-sections were at or less than 0.5°C. No variation more than 0.3°C was found between mean stream temperature and sensor temperature for both dates.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 15.5°C, August 12, 2004, August 10-11, 2005; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR WATER YEAR 2004.--
WATER TEMPERATURE: Maximum, 15.5°C, August 12; minimum recorded 4.5°C, May 20, 23-31, June 4-5.

EXTREMES FOR 2005 WATER YEAR.--
WATER TEMPERATURE: Maximum, 15.5°C, August 10-11; minimum 0.0°C on many days during the winter.

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

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
SEP							
15...	1650	160	15.0	9.17	365	8.5	8.8
15...	1652	160	45.0	9.17	365	8.5	8.8
15...	1654	160	80.0	9.17	365	8.5	8.8
15...	1656	160	115	9.17	365	8.6	8.8
15...	1658	160	145	9.17	365	9.0	8.8

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
MAY							
04...	1549	180	18.0	9.34	536	7.2	9.5
04...	1550	180	54.0	9.34	536	7.1	9.5
04...	1551	180	90.0	9.34	536	7.1	9.5
04...	1552	180	126	9.34	536	7.1	9.5
04...	1553	180	162	9.34	536	7.4	9.5

15297580 ALEC RIVER NEAR CHIGNIK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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	---	---	---	---	---	---	---	---	---	9.0	4.5	6.5
21	---	---	---	---	---	---	---	---	---	9.5	5.0	7.0
22	---	---	---	---	---	---	---	---	---	9.0	5.0	6.5
23	---	---	---	---	---	---	---	---	---	8.0	4.5	6.0
24	---	---	---	---	---	---	---	---	---	8.5	4.5	6.5
25	---	---	---	---	---	---	---	---	---	7.5	4.5	5.5
26	---	---	---	---	---	---	---	---	---	10.0	4.5	7.0
27	---	---	---	---	---	---	---	---	---	10.0	4.5	6.5
28	---	---	---	---	---	---	---	---	---	7.0	4.5	6.0
29	---	---	---	---	---	---	---	---	---	7.0	4.5	5.5
30	---	---	---	---	---	---	---	---	---	8.0	4.5	6.0
31	---	---	---	---	---	---	---	---	---	9.5	4.5	7.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.5	5.0	7.0	9.5	7.0	8.0	12.5	9.0	10.5	11.0	9.0	10.5
2	8.0	5.5	6.0	8.5	6.5	7.5	14.0	9.0	11.5	11.5	9.5	10.5
3	6.0	5.0	5.5	8.5	6.0	7.5	14.0	9.5	11.0	11.0	9.5	10.0
4	7.5	4.5	5.5	10.5	7.0	8.0	12.5	9.0	10.5	10.5	9.0	10.0
5	9.0	4.5	6.5	10.0	7.5	8.5	12.0	9.0	10.0	10.5	8.5	10.0
6	9.0	5.5	7.5	11.5	7.0	9.0	12.5	8.5	10.0	10.5	9.0	10.0
7	9.5	5.0	7.0	12.5	7.5	10.0	13.5	9.0	11.5	11.0	9.5	10.0
8	9.0	5.0	6.5	13.5	7.5	10.5	14.5	10.5	13.0	10.0	7.5	9.0
9	8.5	5.0	6.5	14.5	8.0	11.5	14.0	10.0	12.0	10.5	8.5	9.5
10	8.5	5.0	7.0	15.0	8.0	12.0	14.5	10.5	12.5	10.5	8.5	9.5
11	8.0	5.0	6.5	15.0	8.5	12.0	14.0	11.5	13.0	10.0	9.0	9.5
12	8.0	5.0	6.5	15.0	9.5	11.0	15.5	11.5	13.5	10.5	8.0	9.5
13	8.5	5.5	7.0	10.5	8.5	9.5	14.0	11.5	12.5	9.5	6.5	8.5
14	8.5	5.5	7.0	10.5	8.0	9.0	15.0	10.5	12.5	9.0	7.5	8.5
15	8.0	6.0	7.0	12.5	8.0	10.0	14.5	10.5	12.5	9.0	7.5	8.0
16	10.0	5.5	7.5	13.0	9.0	11.0	13.5	10.0	12.0	8.5	6.5	7.5
17	9.5	6.0	7.5	12.0	8.5	9.5	14.5	11.5	13.0	8.0	7.0	7.5
18	9.0	6.5	7.5	10.5	7.5	9.0	14.0	11.5	12.5	9.5	8.0	8.5
19	10.0	5.5	7.5	13.5	9.0	11.0	12.5	10.0	11.0	11.0	8.5	9.5
20	11.5	6.5	8.5	12.0	9.0	10.5	12.5	9.5	11.0	11.0	8.0	9.0
21	10.5	6.5	7.5	10.5	8.5	9.5	12.0	11.0	11.5	8.5	6.5	7.5
22	10.5	6.5	8.5	13.5	8.5	10.5	12.0	11.0	11.5	8.5	7.5	8.0
23	10.5	6.0	8.0	13.5	9.0	11.5	11.5	10.0	10.5	8.0	6.0	7.0
24	8.5	6.5	7.0	13.0	9.5	11.0	11.5	9.0	10.0	7.5	6.0	6.5
25	8.0	6.0	7.0	11.5	9.5	10.5	11.0	9.5	10.0	7.5	6.5	7.0
26	9.5	6.0	7.5	11.0	8.5	9.5	11.5	9.0	10.5	6.5	5.0	6.0
27	9.5	7.0	8.5	10.5	8.0	9.0	11.5	9.0	10.5	7.5	5.5	6.5
28	9.5	6.5	8.0	10.5	8.0	9.0	11.0	8.5	9.5	8.0	6.5	7.0
29	9.5	7.0	8.0	10.5	8.5	9.5	11.0	8.5	9.5	8.5	8.0	8.0
30	8.0	6.0	7.0	11.0	8.5	10.0	10.5	8.5	9.5	8.5	6.0	7.0
31	---	---	---	11.0	9.0	10.0	11.0	9.5	10.5	---	---	---
MONTH	11.5	4.5	7.2	15.0	6.0	9.8	15.5	8.5	11.3	11.5	5.0	8.5

15297580 ALEC RIVER NEAR CHIGNIK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.5	5.0	5.5	2.0	1.0	1.5	4.0	2.0	3.0	4.0	3.5	3.5
2	6.5	5.5	6.0	4.5	2.0	3.0	2.0	1.5	2.0	3.5	2.5	3.0
3	6.5	6.0	6.5	4.0	0.5	1.5	2.0	2.0	2.0	3.5	2.5	3.5
4	7.5	6.0	6.5	2.0	0.5	1.0	2.5	2.0	2.0	2.5	1.5	2.0
5	7.5	6.0	7.0	2.5	1.5	2.0	3.0	1.5	2.0	2.0	0.5	1.0
6	6.5	5.5	6.0	2.5	1.5	2.0	3.0	2.0	2.5	2.5	0.5	1.5
7	7.0	6.0	6.5	2.5	1.0	1.5	2.5	1.5	2.0	0.5	0.0	0.5
8	8.0	6.0	7.0	2.0	0.5	1.0	2.0	1.0	1.5	0.0	0.0	0.0
9	8.0	5.5	6.5	4.5	1.0	3.5	1.0	0.0	0.5	0.0	0.0	0.0
10	7.0	5.0	6.0	4.0	3.0	3.0	2.0	0.0	1.0	0.0	0.0	0.0
11	7.0	6.0	6.5	3.5	2.5	3.0	2.0	0.5	1.0	0.0	0.0	0.0
12	7.0	5.5	6.5	4.0	3.5	3.5	2.0	1.0	1.5	1.5	0.0	0.5
13	7.0	6.0	6.5	4.0	3.5	3.5	1.5	0.5	1.0	3.0	1.5	2.5
14	7.0	5.0	6.0	5.5	3.5	4.5	2.5	0.5	1.0	3.0	2.0	2.5
15	7.0	5.5	6.0	4.5	1.5	2.5	2.5	2.0	2.0	3.0	2.5	3.0
16	6.5	5.5	6.0	2.0	1.5	1.5	3.0	2.5	2.5	3.0	2.5	2.5
17	7.5	6.0	7.0	3.0	1.5	2.0	3.0	2.5	2.5	3.0	2.5	2.5
18	9.0	7.0	8.0	3.5	3.0	3.0	3.0	2.0	2.5	2.5	1.5	2.0
19	9.0	6.0	7.0	4.0	3.0	3.5	2.0	0.5	1.5	3.0	2.0	2.5
20	6.0	3.5	5.0	3.5	2.5	3.0	0.5	0.0	0.5	3.0	2.5	3.0
21	5.5	4.0	5.0	4.5	2.5	3.5	4.0	0.5	2.0	3.5	3.0	3.0
22	5.5	5.0	5.5	5.0	4.0	4.5	4.0	2.0	3.5	3.0	2.5	3.0
23	6.0	4.5	5.5	5.0	3.0	3.5	2.0	0.0	0.5	2.5	1.5	2.0
24	4.5	3.0	4.0	3.5	2.0	2.5	0.0	0.0	0.0	3.5	2.0	2.5
25	5.5	3.5	4.5	3.0	2.5	3.0	0.0	0.0	0.0	3.5	2.5	3.0
26	6.0	5.0	5.5	5.0	3.0	4.0	0.5	0.0	0.0	3.5	3.0	3.0
27	5.5	4.5	5.0	5.0	3.0	4.5	1.5	0.5	1.0	3.5	3.0	3.0
28	4.5	3.0	3.5	3.5	2.0	2.5	0.5	0.0	0.5	3.5	3.0	3.0
29	4.0	2.5	3.5	4.0	3.0	4.0	0.5	0.0	0.0	3.5	3.0	3.5
30	2.5	1.5	2.0	4.0	2.5	3.0	3.0	0.5	2.0	3.5	3.0	3.5
31	2.5	1.0	2.0	---	---	---	3.5	3.0	3.5	3.5	0.0	1.0
MONTH	9.0	1.0	5.6	5.5	0.5	2.8	4.0	0.0	1.5	4.0	0.0	2.1

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	3.5	1.0	2.0	0.0	0.0	0.0	8.0	5.0	6.0
2	0.0	0.0	0.0	3.5	2.5	3.0	0.0	0.0	0.0	7.5	4.5	6.0
3	0.0	0.0	0.0	3.5	2.0	3.0	0.5	0.0	0.0	8.5	5.5	7.0
4	0.0	0.0	0.0	3.5	2.5	3.0	1.0	0.0	0.5	8.0	5.0	7.0
5	0.5	0.0	0.0	4.5	3.0	3.5	0.5	0.0	0.0	7.0	5.5	6.5
6	3.5	0.5	2.0	3.5	2.0	3.0	4.5	0.5	2.0	8.5	4.0	5.5
7	3.5	2.0	2.5	4.0	3.0	3.5	5.5	2.5	4.0	8.0	4.5	6.0
8	2.5	1.5	2.0	4.5	3.5	4.0	5.5	4.0	4.5	10.0	4.5	7.0
9	2.0	0.0	0.5	4.0	3.0	3.5	4.5	1.5	3.5	9.5	5.0	7.0
10	0.0	0.0	0.0	5.0	2.5	3.5	1.5	0.5	1.0	8.0	5.0	6.5
11	0.0	0.0	0.0	5.0	2.0	3.5	4.0	0.5	2.0	10.5	5.0	7.5
12	0.5	0.0	0.0	4.5	2.5	3.5	6.5	2.0	3.5	10.0	5.0	7.0
13	3.0	0.5	2.5	4.5	3.0	4.0	7.0	3.5	5.5	8.5	4.5	6.5
14	3.0	2.0	2.5	4.5	3.0	4.0	7.0	3.5	5.0	8.5	5.0	6.5
15	2.5	1.0	2.0	4.0	3.0	3.5	8.0	4.0	6.0	8.5	5.0	7.0
16	3.0	2.5	2.5	4.5	1.5	3.0	8.0	4.0	6.0	9.0	5.5	7.0
17	4.5	2.5	3.5	4.5	3.0	4.0	6.5	4.0	5.0	8.5	4.5	6.0
18	4.0	2.0	2.5	6.0	3.0	4.5	4.5	3.5	4.0	7.5	4.0	6.0
19	4.0	2.0	3.0	5.5	3.0	4.5	6.0	2.5	4.0	7.5	5.0	6.0
20	4.0	3.0	3.5	5.5	3.0	4.0	5.5	3.0	4.5	6.0	4.5	5.0
21	3.5	1.5	2.5	3.0	0.5	1.0	6.5	4.0	5.0	5.0	4.0	4.5
22	3.5	2.5	3.0	4.0	0.0	2.0	7.0	3.5	5.5	7.5	4.5	6.0
23	3.0	2.0	3.0	3.5	1.0	2.5	9.0	5.0	7.0	9.5	5.0	7.5
24	3.5	2.0	2.5	4.0	2.5	3.5	9.5	5.0	7.0	11.5	6.0	9.0
25	3.5	2.5	3.0	3.0	1.0	2.0	8.0	6.0	7.0	11.0	6.5	8.5
26	3.5	2.0	2.5	4.5	0.5	2.5	6.5	5.5	6.0	8.0	5.5	6.5
27	3.0	1.5	2.5	4.5	2.5	3.5	8.0	5.0	6.5	8.0	5.0	6.5
28	3.5	2.0	2.5	3.5	1.5	3.0	7.0	5.5	6.5	8.5	5.0	6.5
29	---	---	---	3.5	0.5	2.0	9.0	4.5	6.5	7.5	5.0	6.0
30	---	---	---	0.5	0.0	0.0	9.0	6.0	8.0	9.5	5.0	6.5
31	---	---	---	0.0	0.0	0.0	---	---	---	8.5	5.0	7.0
MONTH	4.5	0.0	1.8	6.0	0.0	3.0	9.5	0.0	4.2	11.5	4.0	6.6

15297580 ALEC RIVER NEAR CHIGNIK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	9.5	5.0	7.0	11.0	7.5	9.0	11.5	9.0	10.5	10.0	8.0	9.0
2	9.0	5.5	7.0	13.5	8.0	10.5	12.5	8.5	10.5	10.0	8.0	9.0
3	10.5	5.0	7.5	13.5	9.0	10.5	13.0	9.5	11.0	9.5	8.5	9.0
4	12.5	5.0	8.5	10.5	8.0	9.0	11.5	9.0	10.0	9.5	8.5	9.0
5	11.5	5.0	8.5	11.0	8.5	9.5	14.0	9.5	11.5	9.5	8.0	9.0
6	10.5	6.5	8.0	10.5	8.0	9.5	13.5	10.0	12.0	9.5	8.0	8.5
7	8.5	5.5	6.5	13.5	8.5	10.5	15.0	11.0	13.5	10.0	8.0	9.0
8	9.0	5.5	7.5	14.0	9.0	12.0	14.5	11.0	13.0	10.0	8.0	8.5
9	9.0	5.5	7.0	13.5	9.0	11.0	15.0	11.0	13.0	10.0	9.0	9.5
10	9.5	6.0	7.5	13.5	9.0	11.0	15.5	11.0	13.0	10.0	8.0	9.5
11	9.5	6.5	8.0	13.5	8.5	10.5	15.5	10.5	13.0	11.0	9.0	10.0
12	9.0	6.0	7.0	11.5	7.5	9.5	15.0	11.5	13.5	11.0	8.0	9.0
13	11.0	5.5	8.0	12.5	8.5	10.0	14.0	11.5	12.5	9.5	7.0	8.0
14	10.5	6.0	8.5	13.0	9.5	11.5	14.0	11.0	12.5	10.0	8.0	9.0
15	12.5	6.5	9.5	12.5	10.0	11.5	14.0	11.5	12.5	10.0	9.5	10.0
16	12.5	6.5	9.5	11.5	9.0	10.0	14.0	11.5	12.5	9.5	8.0	8.5
17	11.5	7.0	8.5	10.5	9.0	9.5	13.0	10.5	11.5	9.0	8.0	8.5
18	10.5	6.0	8.0	11.5	8.0	9.5	12.5	9.5	11.0	8.5	8.0	8.0
19	10.0	6.0	8.0	13.5	9.0	11.0	12.5	11.0	11.5	8.5	7.5	8.0
20	11.0	5.5	8.5	13.0	9.0	11.0	11.5	10.0	11.0	8.5	7.0	7.5
21	11.0	7.0	9.0	12.5	9.0	10.5	11.5	10.5	11.0	8.5	7.5	8.0
22	10.0	7.0	8.0	11.5	10.0	10.5	13.5	11.0	12.0	9.5	8.0	8.5
23	12.0	7.0	9.0	13.0	9.5	11.0	13.5	11.0	12.0	9.0	7.5	8.5
24	11.5	7.5	9.5	12.5	9.5	10.5	11.0	9.5	10.5	8.5	7.0	8.0
25	10.5	7.5	9.0	12.0	8.0	9.5	10.5	9.5	10.0	8.0	6.5	7.5
26	12.5	7.5	9.5	12.0	8.5	10.0	10.5	9.0	10.0	7.5	7.0	7.5
27	14.5	8.0	11.0	11.5	8.5	10.0	10.5	9.5	10.0	8.0	7.5	7.5
28	14.0	7.5	11.0	11.0	9.0	10.0	11.0	10.0	10.5	8.0	7.5	7.5
29	14.5	8.5	12.0	10.5	9.0	9.5	11.0	9.5	10.0	7.5	6.5	7.0
30	14.0	7.5	10.0	11.0	8.5	9.5	10.0	9.0	9.5	7.0	6.0	6.5
31	---	---	---	11.5	8.5	10.0	9.0	8.5	8.5	---	---	---
MONTH	14.5	5.0	8.6	14.0	7.5	10.2	15.5	8.5	11.4	11.0	6.0	8.4

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET NEAR CHIGNIK

LOCATION.--Lat 56°23'41", long 158°56'06", in SW¼ SW¼ SW¼ sec. 05, T. 44 S., R. 61 W. (Chignik B-3 quad), Hydrologic Unit 19020702, on right bank, 1.5 mi below Black Lake, and 11.9 mi northwest from the village of Chignik Lake.

DRAINAGE AREA.-- 282.93 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.-- May 2004 to September 2005 (discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 32 ft above sea level, from topographic map.

REMARKS.--Records are fair. Rain gage at station. GOES satellite telemetry at station.

COOPERATION.--Data collected in cooperation with the U.S. Army Corps of Engineers.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge during period May 20 to September 30,2004, 2,440 ft^3/s, June 5, gage height, 8.82 ft; minimum discharge 405 ft^3/s, Sept. 29.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1480	1690	1020	702
2	---	---	---	---	---	---	---	---	1570	1840	957	783
3	---	---	---	---	---	---	---	---	1830	1980	975	794
4	---	---	---	---	---	---	---	---	2230	2000	935	717
5	---	---	---	---	---	---	---	---	2360	2070	901	685
6	---	---	---	---	---	---	---	---	2130	1890	895	640
7	---	---	---	---	---	---	---	---	2210	1760	869	599
8	---	---	---	---	---	---	---	---	2080	1650	792	663
9	---	---	---	---	---	---	---	---	2040	1560	808	656
10	---	---	---	---	---	---	---	---	1930	1480	775	650
11	---	---	---	---	---	---	---	---	1900	1390	781	646
12	---	---	---	---	---	---	---	---	1810	1170	624	695
13	---	---	---	---	---	---	---	---	1770	1130	545	657
14	---	---	---	---	---	---	---	---	1640	1220	564	631
15	---	---	---	---	---	---	---	---	1580	1190	759	661
16	---	---	---	---	---	---	---	---	1540	931	754	685
17	---	---	---	---	---	---	---	---	1480	1150	644	593
18	---	---	---	---	---	---	---	---	1320	1190	644	625
19	---	---	---	---	---	---	---	---	1540	1160	700	646
20	---	---	---	---	---	---	---	1360	1550	1180	672	818
21	---	---	---	---	---	---	---	1520	1540	1140	547	783
22	---	---	---	---	---	---	---	1540	1460	1120	555	798
23	---	---	---	---	---	---	---	1810	1610	1020	696	857
24	---	---	---	---	---	---	---	2010	1680	860	847	749
25	---	---	---	---	---	---	---	2130	1630	888	885	832
26	---	---	---	---	---	---	---	2110	1540	1060	953	1000
27	---	---	---	---	---	---	---	1860	1430	1100	881	853
28	---	---	---	---	---	---	---	1930	1370	1130	854	829
29	---	---	---	---	---	---	---	1950	1420	1120	833	608
30	---	---	---	---	---	---	---	1830	1530	1080	770	1050
31	---	---	---	---	---	---	---	1640	---	1040	682	---
TOTAL	---	---	---	---	---	---	---	---	51200	41189	24117	21905
MEAN	---	---	---	---	---	---	---	---	1707	1329	778	730
MAX	---	---	---	---	---	---	---	---	2360	2070	1020	1050
MIN	---	---	---	---	---	---	---	---	1320	860	545	593
MED	---	---	---	---	---	---	---	---	1600	1170	781	690
AC-FT	---	---	---	---	---	---	---	---	101600	81700	47840	43450
IN.	---	---	---	---	---	---	---	---	6.73	5.42	3.17	2.88

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET NEAR CHIGNIK—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1010	681	1010	1090	913	963	326	e570	1330	1110	907	1010
2	1090	701	1050	1100	e900	872	332	e550	1370	1050	955	980
3	1140	e600	954	1140	e900	868	316	e515	1470	956	948	1060
4	1160	558	853	1110	e900	865	319	691	1460	995	899	1120
5	1260	679	807	1040	e850	959	276	784	1330	994	858	1140
6	1220	753	968	991	e850	1080	228	1120	1230	1020	820	1230
7	1260	789	938	924	e850	1120	212	1300	1370	960	785	1290
8	1170	804	928	862	e800	1300	235	1210	1390	875	748	1110
9	1240	750	905	806	e800	1400	311	1090	1500	888	634	1120
10	1170	714	769	746	e800	1550	309	1100	1570	875	553	1290
11	1140	877	842	722	e800	1310	326	1170	1580	772	729	1190
12	1280	968	881	642	715	1200	206	1230	1690	800	731	1320
13	1390	935	903	595	718	1400	127	1270	1630	801	654	1200
14	1380	810	832	573	805	1180	91	1340	1580	759	649	1050
15	1340	1040	943	836	892	1350	205	1310	1480	676	655	1120
16	1300	946	962	1240	876	1300	196	1280	1320	812	629	1190
17	1240	802	955	1400	766	1060	125	1350	1230	863	747	1150
18	1190	912	962	1420	985	1030	160	1300	1460	847	800	1160
19	1220	853	928	1400	1030	1210	176	1220	1540	828	841	1220
20	1160	1040	873	1370	1370	1270	e220	1230	1310	807	837	1180
21	1180	851	826	1330	1400	1180	e350	1130	1180	721	776	1110
22	1090	1030	977	1300	1440	1070	e400	1050	1300	743	591	1120
23	1090	1060	1060	1170	1380	999	e420	1010	1230	682	815	1200
24	1110	1060	887	1000	1330	983	e510	853	1110	702	856	1190
25	759	1050	878	1120	1280	1040	e440	647	1240	848	729	1150
26	858	855	e850	1200	1190	723	e350	687	1200	897	917	960
27	955	855	e850	1170	1130	720	e340	904	1210	999	765	1320
28	929	945	e900	1050	1060	703	e600	1070	1230	1030	852	1480
29	967	978	900	1070	---	696	e640	1160	1210	1000	830	1530
30	853	880	963	1250	---	334	e610	1280	1170	971	910	1620
31	931	---	1050	1290	---	302	---	1340	---	940	1020	---
TOTAL	35082	25776	28404	32957	27730	32037	9356	32761	40920	27221	24440	35810
MEAN	1132	859	916	1063	990	1033	312	1057	1364	878	788	1194
MAX	1390	1060	1060	1420	1440	1550	640	1350	1690	1110	1020	1620
MIN	759	558	769	573	715	302	91	515	1110	676	553	960
MED	1160	855	905	1100	900	1060	313	1130	1330	875	800	1170
AC-FT	69590	51130	56340	65370	55000	63550	18560	64980	81160	53990	48480	71030
IN.	4.61	3.39	3.73	4.33	3.65	4.21	1.23	4.31	5.38	3.58	3.21	4.71

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

MEAN	1132	859	916	1063	990	1033	312	1057	1535	1103	783	962
MAX	1132	859	916	1063	990	1033	312	1057	1707	1329	788	1194
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004	2005	2005
MIN	1132	859	916	1063	990	1033	312	1057	1364	878	778	730
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005#	
ANNUAL TOTAL	352494			
ANNUAL MEAN	966		966	
HIGHEST ANNUAL MEAN			966	2005
LOWEST ANNUAL MEAN			966	2005
HIGHEST DAILY MEAN	1690	Jun 12	2360	Jun 5 2004
LOWEST DAILY MEAN	91	Apr 14	91	Apr 14 2005
ANNUAL SEVEN-DAY MINIMUM	154	Apr 13	154	Apr 13 2005
MAXIMUM PEAK FLOW	1730	Jun 12	2440	Jun 5 2004
MAXIMUM PEAK STAGE	8.06	Jun 12	8.82	Jun 5 2004
INSTANTANEOUS LOW FLOW	56	Apr 14	56	Apr 14 2005
ANNUAL RUNOFF (AC-FT)	699200		699600	
ANNUAL RUNOFF (INCHES)	46.35		46.38	
10 PERCENT EXCEEDS	1330		1330	
50 PERCENT EXCEEDS	967		967	
90 PERCENT EXCEEDS	593		593	

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

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET NEAR CHIGNIK—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--May 2004 to September 2005 (discontinued).

PERIOD OF DAILY RECORD.--May 2004 to September 2005 (discontinued).

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

REMARKS.--Probe installed on May 20, 2004. 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 4, 2005 and July 7, 2005. Variations of 0.3°C or less were found within the cross sections on both dates. The variation found between mean stream temperature and sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF DAILY RECORD.--
WATER TEMPERATURE: Maximum, 23.5°C, July 11, 2004; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR 2004 WATER YEAR.--
WATER TEMPERATURE: Maximum, 23.5°C, July 11; minimum recorded 5.0°C, September 27.

EXTREMES FOR 2005 WATER YEAR.--
WATER TEMPERATURE: Maximum, 21.0°C, August 8 and 12; minimum 0.0°C on many days during the winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampler type, code (84164)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
MAY									
04...	1328	180	162	6.41	678	8010	10	9.3	10.5
04...	1329	180	126	6.41	678	8010	10	9.2	10.5
04...	1330	180	90.0	6.41	678	8010	10	9.1	10.5
04...	1331	180	54.0	6.41	678	8010	10	9.1	10.5
04...	1332	180	18.0	6.41	678	8010	10	9.2	10.5
JUL									
07...	1625	176	18.0	6.79	943	8010	10	15.6	13.7
07...	1626	176	53.0	6.79	943	8010	10	15.5	13.7
07...	1627	176	88.0	6.79	943	8010	10	15.4	13.7
07...	1628	176	123	6.79	943	8010	10	15.3	13.7
07...	1629	176	158	6.79	943	8010	10	15.4	13.7

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET NEAR CHIGNIK—Continued

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

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
3	---	---	---	---	---	---	---	---	---	---	---	---
4	---	---	---	---	---	---	---	---	---	---	---	---
5	---	---	---	---	---	---	---	---	---	---	---	---
6	---	---	---	---	---	---	---	---	---	---	---	---
7	---	---	---	---	---	---	---	---	---	---	---	---
8	---	---	---	---	---	---	---	---	---	---	---	---
9	---	---	---	---	---	---	---	---	---	---	---	---
10	---	---	---	---	---	---	---	---	---	---	---	---
11	---	---	---	---	---	---	---	---	---	---	---	---
12	---	---	---	---	---	---	---	---	---	---	---	---
13	---	---	---	---	---	---	---	---	---	---	---	---
14	---	---	---	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
16	---	---	---	---	---	---	---	---	---	---	---	---
17	---	---	---	---	---	---	---	---	---	---	---	---
18	---	---	---	---	---	---	---	---	---	---	---	---
19	---	---	---	---	---	---	---	---	---	---	---	---
20	---	---	---	---	---	---	---	---	---	12.5	---	---
21	---	---	---	---	---	---	---	---	---	13.5	8.5	11.0
22	---	---	---	---	---	---	---	---	---	12.0	9.5	11.0
23	---	---	---	---	---	---	---	---	---	11.5	10.0	10.5
24	---	---	---	---	---	---	---	---	---	12.5	9.0	10.5
25	---	---	---	---	---	---	---	---	---	12.0	10.0	11.0
26	---	---	---	---	---	---	---	---	---	13.0	9.5	11.0
27	---	---	---	---	---	---	---	---	---	12.0	10.5	11.5
28	---	---	---	---	---	---	---	---	---	11.5	10.0	11.0
29	---	---	---	---	---	---	---	---	---	10.0	8.5	9.0
30	---	---	---	---	---	---	---	---	---	10.0	8.0	9.0
31	---	---	---	---	---	---	---	---	---	12.0	8.5	10.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	12.0	9.5	10.5	14.0	11.5	12.5	17.0	15.5	16.0	14.5	13.0	13.5
2	11.0	10.0	10.0	13.0	11.5	12.0	19.0	14.0	16.5	15.0	13.0	14.0
3	10.0	8.5	9.5	14.0	11.0	13.0	18.5	16.0	17.0	13.5	12.5	13.0
4	10.0	8.5	9.0	14.0	12.0	13.0	16.0	14.0	15.0	13.5	12.0	12.5
5	13.0	9.5	11.0	15.0	13.0	14.0	16.0	14.5	15.0	14.5	12.0	13.0
6	12.5	12.0	12.0	15.5	13.0	14.0	17.5	14.5	16.0	14.0	12.5	13.0
7	12.0	11.0	11.5	17.5	13.0	15.0	19.0	14.0	16.5	13.5	12.0	12.5
8	11.5	9.0	10.5	19.0	15.0	17.0	20.0	16.5	18.5	14.0	11.0	12.5
9	11.5	8.5	10.0	21.0	16.5	18.5	20.0	16.0	17.5	13.5	12.0	12.5
10	12.5	9.0	10.5	22.5	18.0	20.0	20.5	17.5	18.5	14.0	11.5	12.5
11	12.0	10.5	11.0	23.5	18.5	21.0	21.0	17.5	19.0	14.0	11.5	12.5
12	11.5	9.5	11.0	22.0	16.5	19.0	19.5	17.0	18.5	13.5	11.5	12.5
13	11.5	9.5	10.5	16.5	14.0	15.5	17.0	15.0	15.5	14.0	10.0	12.0
14	12.5	10.5	11.5	15.5	14.0	14.5	17.5	14.0	15.5	12.0	10.0	11.0
15	12.5	11.0	12.0	17.0	14.5	15.5	19.5	14.0	16.5	11.5	10.0	10.5
16	13.5	11.5	12.5	17.0	14.0	15.5	19.5	16.0	17.5	10.5	8.5	9.5
17	13.0	11.0	12.0	15.5	14.0	14.5	19.5	16.5	18.0	10.0	8.5	9.0
18	12.0	10.5	11.0	15.0	14.0	14.0	17.5	16.5	16.5	11.0	9.5	10.5
19	14.0	10.5	12.0	16.5	13.0	14.0	17.0	15.5	16.0	13.0	10.0	11.5
20	14.0	11.5	12.5	16.0	14.0	15.0	18.5	15.0	16.5	12.0	9.5	11.0
21	14.0	12.0	13.0	15.0	13.0	14.0	17.0	14.5	15.0	11.0	8.5	9.5
22	14.0	12.5	13.0	17.5	14.0	15.5	16.0	13.5	14.5	10.0	9.0	9.5
23	15.0	12.5	13.5	18.5	15.5	16.5	16.5	13.5	15.0	9.0	7.5	8.0
24	14.0	13.0	13.5	17.0	14.5	15.5	16.0	14.0	15.0	8.5	6.5	7.5
25	13.0	10.5	11.5	15.5	14.0	14.5	15.5	14.5	15.0	8.5	7.5	8.0
26	14.0	10.5	12.0	16.0	14.5	15.0	15.0	13.0	14.0	7.5	6.0	6.5
27	14.0	12.5	13.5	15.0	13.5	14.0	14.5	12.5	13.5	7.5	5.0	6.0
28	14.5	12.0	13.0	15.0	13.5	14.0	13.5	12.0	12.5	8.0	6.5	7.0
29	13.5	13.0	13.0	15.5	14.0	14.5	13.0	11.0	12.0	9.5	7.5	8.5
30	13.5	12.5	13.0	16.0	13.5	15.0	14.0	11.5	12.5	9.5	7.5	8.5
31	---	---	---	17.0	14.5	15.5	14.0	12.0	13.0	---	---	---
MONTH	15.0	8.5	11.7	23.5	11.0	15.2	21.0	11.0	15.7	15.0	5.0	10.6

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET NEAR CHIGNIK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	7.5	6.0	7.0	0.5	0.0	0.0	2.5	1.0	1.5	0.5	0.0	0.5
2	7.5	6.5	7.0	1.5	0.0	1.0	1.0	0.5	0.5	0.5	0.0	0.5
3	7.0	6.5	7.0	1.0	0.0	0.0	0.5	0.0	0.5	0.5	0.5	0.5
4	8.0	6.5	7.0	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.5
5	8.0	7.0	7.5	0.5	0.0	0.0	1.0	0.0	0.5	0.5	0.0	0.0
6	7.0	6.0	6.5	0.5	0.0	0.0	1.0	0.0	0.5	0.5	0.0	0.0
7	7.5	6.5	7.0	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0
8	9.0	6.5	7.5	0.5	0.0	0.0	0.5	0.0	0.0	0.5	0.0	0.0
9	8.0	7.0	7.5	1.5	0.5	0.5	0.0	0.0	0.0	0.5	0.0	0.0
10	8.0	6.0	7.0	1.0	0.5	0.5	0.5	0.0	0.0	0.5	0.0	0.0
11	7.5	6.5	7.0	0.5	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
12	8.0	6.5	7.0	1.5	0.5	1.0	0.0	0.0	0.0	1.0	0.0	0.5
13	8.0	6.5	7.5	1.5	0.5	1.0	0.0	0.0	0.0	1.0	0.5	0.5
14	8.5	6.5	7.5	3.5	1.0	2.5	0.5	0.0	0.5	1.5	0.5	1.0
15	7.5	7.0	7.0	2.5	0.5	1.5	0.5	0.0	0.5	1.5	1.0	1.5
16	7.0	6.0	6.5	1.0	0.5	0.5	1.0	0.0	0.5	1.0	0.5	1.0
17	7.5	6.0	7.0	1.0	0.0	0.5	1.0	0.5	0.5	1.0	0.5	0.5
18	9.0	7.0	8.0	1.0	0.5	0.5	1.0	0.5	0.5	0.5	0.0	0.0
19	8.5	7.0	7.5	2.0	1.0	1.5	0.5	0.0	0.0	0.5	0.0	0.0
20	7.5	6.0	6.5	2.0	1.0	1.5	0.5	0.0	0.0	1.0	0.0	0.5
21	6.0	4.5	5.0	3.0	1.0	2.0	1.5	0.0	1.0	1.0	0.5	0.5
22	5.5	4.5	5.0	3.0	2.0	2.5	2.0	0.0	1.5	1.5	1.0	1.0
23	5.5	4.5	5.5	2.5	2.0	2.0	0.0	0.0	0.0	1.0	0.0	0.5
24	4.5	3.0	3.5	2.0	1.0	1.0	0.0	0.0	0.0	1.5	0.0	0.5
25	5.0	3.0	3.5	1.0	0.5	1.0	0.0	0.0	0.0	2.0	1.0	1.5
26	5.0	4.0	4.5	3.5	1.0	2.0	0.0	0.0	0.0	1.5	1.0	1.0
27	5.0	4.0	4.5	3.5	2.5	3.0	0.0	0.0	0.0	1.5	1.0	1.0
28	4.0	3.0	3.5	2.5	1.5	2.0	0.0	0.0	0.0	2.0	1.0	1.5
29	3.0	2.0	2.5	2.5	1.5	2.5	0.0	0.0	0.0	3.0	1.5	2.0
30	2.0	1.0	1.0	2.5	1.5	2.0	0.5	0.0	0.0	3.0	1.5	2.5
31	1.0	0.0	0.5	---	---	---	0.5	0.0	0.5	1.5	0.0	0.0
MONTH	9.0	0.0	5.9	3.5	0.0	1.1	2.5	0.0	0.3	3.0	0.0	0.6

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	2.5	0.5	1.5	0.5	0.0	0.5	---	---	---
2	0.0	0.0	0.0	3.0	1.0	2.0	1.0	0.0	0.5	---	---	---
3	0.0	0.0	0.0	3.0	2.0	2.5	3.0	0.0	1.0	---	---	---
4	0.0	0.0	0.0	4.0	2.0	3.0	1.5	0.0	0.5	10.0	---	---
5	0.0	0.0	0.0	4.5	2.5	3.5	2.0	0.0	0.5	10.2	7.0	8.6
6	0.5	0.0	0.5	3.5	2.5	3.0	5.0	0.0	2.0	10.5	7.5	9.0
7	0.5	0.0	0.0	3.5	2.5	3.0	4.0	0.5	2.0	10.0	7.5	9.0
8	0.5	0.0	0.0	5.5	3.0	4.0	5.0	2.0	3.0	11.5	8.0	9.5
9	0.0	0.0	0.0	5.0	3.5	4.0	3.5	0.5	2.0	10.0	7.5	9.0
10	0.5	0.0	0.0	5.0	3.0	3.5	1.0	0.0	0.0	9.5	7.5	8.5
11	0.5	0.0	0.0	4.0	2.5	3.0	4.0	0.0	1.5	11.5	8.0	9.5
12	0.5	0.0	0.5	3.5	2.5	3.0	6.0	0.0	2.5	11.0	9.0	10.0
13	1.0	0.5	0.5	4.5	2.5	3.5	6.5	1.0	3.5	12.5	8.5	10.0
14	1.0	0.5	0.5	5.0	3.0	4.0	7.0	1.5	4.0	13.0	10.0	11.5
15	1.5	0.0	0.5	4.0	3.0	3.5	8.5	2.0	5.0	12.5	10.0	11.0
16	1.5	0.5	1.0	4.5	2.0	3.5	9.0	3.5	6.0	13.0	10.5	11.5
17	3.0	0.5	2.0	4.5	3.0	3.5	7.0	3.5	5.5	11.5	9.5	10.5
18	2.5	1.0	2.0	5.5	3.5	4.0	5.5	3.5	4.5	9.5	6.5	8.5
19	3.0	1.0	2.0	6.0	3.0	4.5	---	2.0	---	8.5	7.5	8.0
20	3.0	1.5	2.5	5.5	3.5	4.5	---	---	---	7.5	6.0	6.5
21	2.5	1.0	1.5	3.5	0.5	1.5	---	---	---	6.5	5.5	6.0
22	2.0	1.5	2.0	3.0	0.0	1.0	---	---	---	9.0	5.0	6.5
23	2.5	1.5	1.5	2.5	0.0	1.0	---	---	---	11.0	6.5	8.5
24	2.5	1.0	1.5	3.0	1.0	2.0	---	---	---	13.5	8.0	10.5
25	3.0	1.5	2.0	1.5	0.0	1.0	---	---	---	11.5	9.0	10.0
26	3.0	1.5	2.0	3.5	0.0	1.0	---	---	---	9.5	7.5	8.5
27	2.5	1.0	1.5	3.5	0.5	2.0	---	---	---	11.0	8.0	9.0
28	3.0	1.0	1.5	4.0	0.5	2.0	---	---	---	11.0	7.5	9.0
29	---	---	---	2.0	0.0	1.0	---	---	---	11.5	8.0	9.5
30	---	---	---	0.0	0.0	0.0	---	---	---	11.0	8.5	9.5
31	---	---	---	0.5	0.0	0.0	---	---	---	11.5	9.0	10.0
MONTH	3.0	0.0	0.9	6.0	0.0	2.6	---	---	---	---	---	---

15297585 CHIGNIK RIVER AT BLACK LAKE OUTLET NEAR CHIGNIK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	10.5	8.0	9.5	16.0	13.0	14.5	16.0	14.0	15.0	12.5	9.5	11.0
2	11.5	8.5	10.0	18.0	13.5	15.5	16.0	14.0	15.0	12.5	10.5	11.5
3	14.5	10.0	12.0	17.0	14.5	15.5	16.0	14.0	15.0	13.0	11.5	12.5
4	16.5	11.0	13.5	16.5	14.5	15.5	16.0	14.0	15.0	13.0	11.0	12.0
5	15.5	12.5	14.0	17.0	14.5	15.5	17.5	14.0	15.5	13.0	11.0	12.0
6	13.5	11.5	12.5	16.5	14.0	15.0	19.0	15.0	16.5	12.5	11.5	11.5
7	12.5	10.5	11.5	17.0	13.0	14.5	20.5	16.0	18.0	13.0	11.0	11.5
8	13.0	10.0	11.5	19.0	13.5	16.0	21.0	16.5	18.5	12.0	11.0	11.5
9	13.5	11.0	12.0	17.5	15.5	16.0	19.0	16.0	17.5	13.5	11.5	12.0
10	13.0	10.5	12.0	17.0	13.0	15.0	18.0	14.5	16.0	13.5	11.0	12.5
11	14.5	11.5	13.0	15.5	13.5	14.0	20.0	14.0	17.0	14.0	11.5	12.5
12	13.5	11.0	12.0	16.0	13.0	14.5	21.0	17.0	18.5	13.0	11.5	12.0
13	15.0	10.5	13.0	17.0	13.5	15.0	19.0	16.0	17.5	12.0	10.0	11.0
14	16.5	12.0	14.5	18.0	14.5	16.0	19.0	15.5	17.0	13.0	11.0	11.5
15	17.5	13.5	15.5	17.0	14.0	15.5	18.0	15.5	17.0	12.5	11.5	12.0
16	16.5	13.0	15.0	16.0	14.5	15.5	19.5	16.0	17.5	11.5	10.0	11.0
17	14.0	11.5	12.5	15.5	13.0	14.0	18.0	16.0	17.0	11.0	10.0	10.5
18	14.0	11.5	13.0	15.5	12.5	13.5	19.0	14.5	16.5	10.5	9.5	10.0
19	14.0	11.0	12.5	17.5	13.0	15.0	17.5	15.0	16.0	10.5	9.0	9.5
20	14.5	11.0	12.5	16.0	13.0	14.5	16.0	13.0	14.5	10.5	8.5	9.5
21	13.5	12.0	12.5	16.0	13.0	14.5	16.5	14.0	15.0	10.0	9.0	9.5
22	14.5	12.0	13.0	16.5	14.5	15.5	17.0	14.5	15.5	11.0	10.0	10.5
23	16.0	12.5	14.0	17.5	14.5	15.5	16.0	13.5	14.5	11.0	9.5	10.5
24	15.0	13.0	14.0	16.5	14.0	15.0	14.0	12.0	13.0	11.5	9.0	10.0
25	15.0	13.0	14.0	17.5	14.0	15.5	13.5	11.5	12.5	11.0	8.0	9.5
26	17.0	14.0	15.0	17.0	14.5	15.5	14.0	11.5	12.5	9.5	8.5	9.0
27	20.0	14.0	16.5	17.0	14.5	15.5	13.5	11.5	12.5	10.0	8.5	9.0
28	20.0	16.0	18.0	15.5	13.0	14.0	14.0	12.5	13.5	9.5	8.5	9.0
29	20.0	15.0	17.5	13.5	12.0	13.0	13.5	11.5	12.5	8.5	7.5	8.0
30	18.0	15.5	16.0	15.0	13.0	13.5	12.5	11.0	11.5	8.0	7.0	7.5
31	---	---	---	16.0	13.5	14.5	11.0	10.5	11.0	---	---	---
MONTH	20.0	8.0	13.4	19.0	12.0	14.9	21.0	10.5	15.3	14.0	7.0	10.7

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. GOES satellite telemetry at station.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,500 ft^3/s, and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage Height (ft)	Date	Time	Discharge (ft^3/s)	Gage Height (ft)
Jan. 13	1915	1830	27.79	Sept. 14	2215	*2030	*27.95
Aug. 10	1700	1610	27.60				

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	359	211	294	632	e170	172	e130	192	307	341	224	246
2	327	541	254	471	e170	174	130	212	301	311	236	282
3	284	286	234	413	e170	167	130	194	305	335	264	292
4	388	243	305	317	e170	160	126	204	249	325	257	323
5	364	233	601	e300	176	163	e125	379	280	307	222	383
6	367	220	344	257	318	166	125	290	366	267	210	294
7	414	207	275	240	240	169	116	230	377	295	234	250
8	374	202	249	224	195	162	e116	195	543	287	245	642
9	320	295	236	e200	e190	198	e116	188	407	310	275	443
10	307	309	534	193	e180	174	116	192	391	335	905	298
11	367	216	315	187	e170	167	112	201	422	282	659	420
12	320	224	264	306	248	168	111	189	392	297	363	262
13	299	219	233	1460	430	169	117	200	313	271	278	264
14	279	375	223	723	318	235	121	215	261	249	251	628
15	276	268	236	696	230	275	118	213	247	336	298	680
16	304	225	215	603	401	204	115	200	748	390	516	365
17	428	607	198	430	537	195	111	206	990	384	356	469
18	391	338	188	352	448	190	109	186	541	311	536	495
19	290	365	e180	312	430	176	101	166	417	274	433	459
20	240	275	e170	281	463	167	99	157	373	286	356	359
21	224	504	431	259	327	157	210	141	408	334	323	379
22	204	340	641	252	278	155	185	134	372	316	474	459
23	241	307	341	224	250	149	137	127	321	268	340	323
24	196	280	e300	218	225	145	131	130	476	305	304	250
25	586	276	263	223	208	141	163	221	444	263	344	234
26	313	477	339	208	196	141	220	407	370	300	302	423
27	271	369	265	189	185	160	495	295	412	345	258	405
28	242	303	221	185	175	146	258	226	590	356	300	442
29	281	274	202	181	---	139	214	245	532	342	262	374
30	275	283	486	206	---	136	210	269	404	292	331	395
31	234	---	577	176	---	e130	---	323	---	236	297	---
TOTAL	9765	9272	9614	10918	7498	5250	4567	6727	12559	9550	10653	11538
MEAN	315	309	310	352	268	169	152	217	419	308	344	385
MAX	586	607	641	1460	537	275	495	407	990	390	905	680
MIN	196	202	170	176	170	130	99	127	247	236	210	234
AC-FT	19370	18390	19070	21660	14870	10410	9060	13340	24910	18940	21130	22890
CFSM	10.2	10.0	10.0	11.4	8.67	5.48	4.93	7.02	13.5	9.97	11.1	12.4
IN.	11.76	11.16	11.57	13.14	9.03	6.32	5.50	8.10	15.12	11.50	12.82	13.89

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2005, BY WATER YEAR (WY)#

MEAN	284	297	250	178	165	147	146	249	340	337	322	348
MAX	516	530	549	352	272	218	261	575	634	528	427	538
(WY)	1986	1986	1984	2005	1982	1996	1998	2002	2000	1982	2004	1998
MIN	172	168	86.8	59.5	71.2	75.8	80.3	133	208	192	256	170
(WY)	1997	2000	2000	2000	2000	1986	1985	2001	1997	1997	1996	2000

\# See Period of Record; break in record
e Estimated

15297610 RUSSELL CREEK NEAR COLD BAY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1982 - 2005#	
ANNUAL TOTAL	112572		107911			
ANNUAL MEAN	308		296		255	
HIGHEST ANNUAL MEAN					302	1982
LOWEST ANNUAL MEAN					206	1983
HIGHEST DAILY MEAN	1390	May 23	1460	Jan 13	4000	Jun 24 1996
LOWEST DAILY MEAN	89	Apr 5	99	Apr 20	a50	Feb 19 1982
ANNUAL SEVEN-DAY MINIMUM	93	Mar 31	111	Apr 14	51	Feb 18 1982
MAXIMUM PEAK FLOW			2030	Sep 14	be6000	Oct 22 1981
MAXIMUM PEAK STAGE			c27.95	Sep 14	d11.76	Jun 24 1996
INSTANTANEOUS LOW FLOW			f87	Apr 19	g49	Mar 13 1983
ANNUAL RUNOFF (AC-FT)	223300		214000		184900	
ANNUAL RUNOFF (CFSM)	9.95		9.57		8.26	
ANNUAL RUNOFF (INCHES)	135.52		129.91		112.20	
10 PERCENT EXCEEDS	506		461		438	
50 PERCENT EXCEEDS	275		274		210	
90 PERCENT EXCEEDS	139		157		100	

\# See Period of Record; break in record
a Feb. 19-23, 1982
b 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
c From crest-stage gage
d Site and datum then in use; from flood marks
e Estimated
f Apr. 19-20
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 0.5°C. Temperature at the sensor was compared with the stream average by cross section on April 11. A variation of 0.5°C was found within the cross section due to a gravel bar causing a shallow backwater portion of the stream near the left bank. The gravel bar does not effect water temperature at the probe. No variation was found between mean stream temperature and sensor temperature.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 16.0°C, July 14, 2005; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 16.0°C, July 14; minimum 0.0°C on many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
APR							
11...	1620	63.0	2.00	25.63	108	3.8	1.5
11...	1623	63.0	12.0	25.63	108	3.3	1.5
11...	1624	63.0	22.0	25.63	108	3.3	1.5
11...	1625	63.0	32.0	25.63	108	3.3	1.5
11...	1626	63.0	42.0	25.63	108	3.3	1.5
11...	1627	63.0	52.0	25.63	108	3.3	1.5
11...	1628	63.0	62.0	25.63	108	3.3	1.5

WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	6.0	3.5	4.5	1.5	0.0	1.0	2.5	1.0	1.5	3.5	1.5	2.5
2	5.5	4.5	5.0	3.5	1.0	2.5	2.0	1.0	1.5	2.5	1.5	2.0
3	6.0	4.5	5.0	1.5	0.0	0.5	2.5	1.0	1.5	2.0	0.5	1.5
4	7.0	4.5	5.5	2.5	0.0	1.0	2.0	0.5	1.5	1.5	0.0	0.5
5	6.5	4.0	5.0	4.0	1.0	2.0	2.5	0.5	2.0	1.5	0.0	0.5
6	6.5	4.0	5.0	3.0	0.5	1.5	1.5	0.5	1.0	2.5	0.5	1.5
7	7.5	4.5	6.0	1.5	0.0	0.5	1.5	0.5	1.0	2.0	0.5	1.0
8	9.0	5.5	6.5	1.5	0.0	0.5	0.5	0.0	0.0	1.5	0.0	0.5
9	6.5	4.5	5.5	2.5	0.0	1.5	0.0	0.0	0.0	1.5	0.0	0.5
10	8.0	4.0	6.0	3.0	1.5	2.0	0.5	0.0	0.0	1.5	0.5	1.0
11	6.0	4.5	5.5	3.0	0.5	1.5	1.0	0.0	0.5	2.5	1.0	2.0
12	8.0	4.5	5.5	3.0	2.0	2.5	2.0	0.5	1.0	3.5	2.0	2.5
13	6.5	4.5	5.5	4.5	1.0	2.5	1.0	0.0	0.5	2.5	2.0	2.0
14	7.5	5.0	5.5	4.5	1.5	3.5	2.0	0.0	1.0	3.0	2.0	2.5
15	7.5	5.0	5.5	2.0	0.5	1.0	2.0	2.0	2.0	3.5	3.0	3.0
16	6.5	4.0	5.0	2.5	0.5	1.0	2.0	1.0	1.5	3.5	2.5	3.0
17	7.0	6.0	6.5	2.5	1.0	2.0	1.5	0.5	1.0	3.0	2.5	2.5
18	11.0	6.0	7.5	3.5	1.5	2.5	1.5	0.0	1.0	2.5	1.0	2.0
19	6.0	3.5	4.5	3.5	1.5	2.5	0.0	0.0	0.0	2.5	1.0	1.5
20	5.5	2.5	4.0	3.0	1.5	2.0	0.5	0.0	0.0	2.5	2.0	2.0
21	5.5	3.0	4.0	3.5	2.5	3.0	2.0	0.5	1.5	3.0	1.5	2.0
22	6.0	3.5	4.5	3.0	1.5	2.5	2.0	0.0	1.0	3.0	1.5	2.5
23	6.0	2.5	4.5	2.5	1.5	2.0	0.0	0.0	0.0	2.0	0.5	1.0
24	5.0	2.5	3.5	3.5	1.5	2.5	0.0	0.0	0.0	3.0	1.5	2.0
25	7.5	2.5	5.0	3.5	1.5	2.5	2.0	0.0	1.0	3.0	1.5	2.5
26	5.5	4.0	4.5	4.5	3.0	4.0	2.0	0.0	0.5	3.0	1.0	2.0
27	4.5	3.5	4.0	3.5	1.5	3.0	1.0	0.0	0.5	2.5	0.5	1.5
28	4.0	2.0	3.0	4.5	1.5	3.0	1.0	0.0	0.5	3.0	2.0	2.5
29	3.5	1.5	2.5	3.5	2.5	3.0	1.5	0.0	0.5	3.5	2.5	3.0
30	4.5	1.5	2.5	3.5	2.5	3.0	2.5	1.5	2.0	4.5	3.0	3.5
31	2.5	1.0	1.5	---	---	---	3.0	2.0	2.5	3.0	0.0	0.5
MONTH	11.0	1.0	4.8	4.5	0.0	2.1	3.0	0.0	0.9	4.5	0.0	1.9

15297610 RUSSELL CREEK NEAR COLD BAY—Continued

WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		FEBRUARY			MARCH			APRIL			MAY	
1	0.0	0.0	0.0	3.5	0.0	1.5	2.5	0.0	1.0	7.5	3.5	5.0
2	0.0	0.0	0.0	4.0	1.5	2.5	6.0	0.5	2.5	6.5	3.5	5.0
3	0.0	0.0	0.0	3.5	1.0	2.0	5.5	0.5	2.5	10.0	3.5	6.0
4	0.5	0.0	0.0	4.0	1.5	2.5	1.0	0.0	0.0	6.5	4.0	5.0
5	2.0	0.5	1.0	5.0	2.0	3.0	1.5	0.0	0.0	8.0	3.5	5.5
6	3.0	1.5	2.5	3.0	1.5	2.5	4.5	0.0	1.5	8.0	4.0	5.5
7	3.5	1.5	2.0	4.0	2.0	3.0	7.5	0.5	3.0	10.5	2.5	6.0
8	3.0	0.0	1.5	6.0	2.5	4.0	5.5	0.5	3.0	7.0	1.5	4.5
9	0.0	0.0	0.0	4.5	2.0	4.0	4.5	0.0	1.5	6.0	4.0	4.5
10	0.0	0.0	0.0	5.5	1.5	3.0	3.5	0.0	1.0	7.0	4.0	5.0
11	0.5	0.0	0.0	3.5	0.5	2.0	4.5	0.0	1.5	6.5	3.5	5.0
12	2.0	0.0	1.0	6.5	2.0	3.5	7.0	0.0	3.0	8.5	4.0	6.0
13	2.0	0.0	1.0	5.5	2.5	4.0	5.0	1.5	3.0	11.0	4.5	7.0
14	2.5	0.5	1.5	3.5	1.5	3.0	6.5	2.0	3.5	10.0	4.5	6.5
15	3.0	0.5	1.5	5.0	0.5	2.0	8.0	1.0	4.5	8.5	4.0	6.0
16	3.0	1.5	2.0	6.0	1.0	3.0	11.0	0.0	5.0	8.0	4.5	6.0
17	4.0	1.5	2.5	5.5	2.5	3.5	6.0	1.5	4.0	6.5	4.0	5.0
18	2.5	2.0	2.0	6.5	3.5	4.5	6.5	1.5	3.5	6.5	1.5	3.5
19	2.5	2.0	2.0	6.5	2.5	4.0	8.0	0.0	3.5	8.0	2.0	4.5
20	3.5	1.5	2.5	6.0	2.5	4.0	9.0	0.0	4.0	7.0	2.5	4.5
21	3.0	1.0	2.0	2.5	0.0	0.5	5.5	2.5	4.0	8.0	2.5	4.5
22	3.5	1.0	2.0	4.0	0.0	1.5	6.5	1.5	4.0	9.0	3.5	5.5
23	3.0	1.5	2.0	5.5	0.0	2.0	9.0	1.0	5.0	14.0	2.5	8.0
24	3.5	1.0	2.0	6.5	0.0	2.5	7.0	2.5	4.5	9.5	4.5	7.0
25	4.0	1.0	2.0	4.5	0.0	2.0	8.0	3.0	5.0	7.0	4.5	5.0
26	4.5	1.0	2.5	5.5	0.0	1.5	5.0	3.5	4.5	6.0	4.0	5.0
27	4.5	2.0	2.5	5.0	0.0	2.0	8.5	3.5	5.0	8.5	3.5	5.5
28	4.5	0.5	2.0	5.0	0.0	2.5	9.0	3.0	5.5	7.5	4.0	5.5
29	---	---	---	3.5	0.0	1.5	6.0	3.5	4.5	6.5	4.0	5.0
30	---	---	---	0.5	0.0	0.0	5.5	2.5	4.0	8.0	4.0	5.5
31	---	---	---	0.5	0.0	0.0	---	---	---	10.0	4.5	6.5
MONTH	4.5	0.0	1.4	6.5	0.0	2.5	11.0	0.0	3.2	14.0	1.5	5.5

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	8.5	4.5	6.0	13.0	5.0	8.0	11.0	5.0	8.5	11.5	6.0	8.0
2	6.5	4.0	5.0	9.5	5.5	7.5	13.0	7.5	10.0	10.5	7.0	8.5
3	9.0	4.5	6.5	9.5	5.5	7.5	13.0	7.5	9.0	10.0	6.5	8.0
4	13.5	3.0	8.0	9.5	5.5	7.5	11.5	7.0	9.0	9.0	6.5	7.5
5	7.5	5.0	6.0	10.5	5.5	7.5	11.5	6.0	8.5	9.5	7.0	8.5
6	7.5	4.5	5.5	12.0	5.5	8.0	14.5	7.0	10.0	9.0	6.5	7.5
7	8.0	4.5	5.5	14.5	6.0	9.5	14.5	7.0	10.0	10.0	6.5	8.0
8	7.0	4.5	5.5	14.5	5.5	9.0	10.5	8.0	9.0	10.5	7.0	8.5
9	9.0	4.0	6.0	12.0	6.0	8.5	10.0	8.0	9.0	10.5	6.5	8.5
10	11.0	5.0	7.0	12.5	5.0	8.0	9.5	8.0	8.5	9.0	5.5	7.5
11	7.0	4.5	5.5	8.0	5.5	6.5	9.5	8.0	8.5	12.0	6.5	9.0
12	7.0	4.5	5.5	11.0	5.5	8.0	13.5	7.0	9.5	10.0	6.0	7.5
13	11.5	4.0	6.5	10.5	5.5	8.0	11.5	7.0	9.0	11.5	5.5	8.0
14	10.5	5.0	7.0	16.0	5.0	9.5	11.0	7.0	8.5	10.5	8.0	9.0
15	10.0	5.0	6.5	9.5	7.0	8.0	10.5	7.5	9.0	10.5	7.0	8.5
16	7.5	5.0	6.0	11.0	6.0	8.0	10.0	7.0	8.5	9.5	6.0	7.0
17	6.0	4.5	5.5	9.0	6.0	7.0	11.5	7.0	8.5	8.0	6.0	6.5
18	7.5	3.5	5.5	9.0	5.5	7.0	8.5	7.5	8.0	7.5	6.0	6.5
19	10.0	4.0	7.0	12.0	6.0	8.5	11.0	7.5	8.5	8.5	5.5	6.5
20	7.0	5.0	6.0	11.0	6.5	8.0	13.5	7.0	9.5	10.0	5.0	7.0
21	8.5	5.0	6.5	9.5	7.0	8.0	11.0	7.5	9.0	11.5	7.0	8.5
22	8.0	5.0	6.5	9.0	5.5	7.0	15.5	8.0	11.0	10.5	7.0	9.5
23	8.5	4.5	6.5	9.0	6.0	7.5	9.5	7.0	8.0	10.5	6.0	7.5
24	9.5	6.0	7.0	12.5	6.0	8.5	11.0	6.5	8.5	9.5	5.0	6.5
25	8.0	5.0	6.5	12.5	5.5	8.5	9.5	7.0	8.5	10.0	3.5	6.0
26	11.5	5.0	8.0	11.0	6.5	8.5	11.5	7.0	9.0	7.5	6.0	7.0
27	14.5	6.0	9.0	11.0	6.0	8.5	13.0	6.5	9.0	10.0	6.0	7.5
28	12.0	5.5	8.5	11.0	7.0	8.5	12.5	7.5	9.5	7.5	5.5	6.5
29	12.0	4.0	7.5	11.5	6.5	8.5	10.5	6.5	8.0	7.0	4.5	5.5
30	10.0	5.0	7.5	10.5	6.0	8.0	10.0	6.5	8.0	7.0	4.0	5.0
31	---	---	---	13.0	6.5	9.0	9.5	6.5	7.5	---	---	---
MONTH	14.5	3.0	6.5	16.0	5.0	8.1	15.5	5.0	8.9	12.0	3.5	7.5

15300200 ROADHOUSE CREEK NEAR ILIAMNA

LOCATION.--Lat 59°45'26", long 154°50'49", in NE$^1/_4$ SW$^1/_4$ sec. 11, T.5 S., R.32 W.(Iliamna D-5 quad), Hydrologic Unit 19030206, on right bank, 30 feet upstream from culverts on Iliamna road, 2.1 miles east of Iliamna airport.

DRAINAGE AREA.--20.8 mi^2.

PERIOD OF RECORD.--Annual maximum, water years 1973-76, 1978-83. May to September 2005

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 75 ft above sea level, from topographic map.

REMARKS.--Records good, except for discharges above 100 ft^3/s which are fair, and estimated daily discharges which are poor. GOES satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 282 ft^3/s, September 10, 2005, gage-height 11.88 ft, minimum observed, 7.9 ft^3/s, August 22, 1974.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge during the period, May 1 through September 30, 282 ft^3/s, September 10, gage height 11.88 ft; minimum discharge during period, 10 ft^3/s August 12-13 and 15-16.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e65	21	27	17	26
2	---	---	---	---	---	---	---	e60	20	31	16	22
3	---	---	---	---	---	---	---	e55	20	27	16	22
4	---	---	---	---	---	---	---	e55	19	22	15	58
5	---	---	---	---	---	---	---	e58	18	21	15	69
6	---	---	---	---	---	---	---	e60	17	23	14	92
7	---	---	---	---	---	---	---	e58	17	20	13	88
8	---	---	---	---	---	---	---	e50	17	18	13	76
9	---	---	---	---	---	---	---	e48	18	21	12	159
10	---	---	---	---	---	---	---	e46	18	21	12	267
11	---	---	---	---	---	---	---	e44	18	19	12	208
12	---	---	---	---	---	---	---	e40	19	23	11	150
13	---	---	---	---	---	---	---	e43	18	26	11	125
14	---	---	---	---	---	---	---	e43	17	22	11	101
15	---	---	---	---	---	---	---	e37	16	18	11	106
16	---	---	---	---	---	---	---	e35	15	22	11	134
17	---	---	---	---	---	---	---	e32	15	28	13	127
18	---	---	---	---	---	---	---	e30	36	23	16	108
19	---	---	---	---	---	---	---	e28	41	20	18	86
20	---	---	---	---	---	---	---	e30	36	18	15	72
21	---	---	---	---	---	---	---	e30	28	17	15	62
22	---	---	---	---	---	---	---	e29	24	15	14	65
23	---	---	---	---	---	---	---	e28	24	14	35	96
24	---	---	---	---	---	---	---	26	21	15	46	119
25	---	---	---	---	---	---	---	26	19	17	39	119
26	---	---	---	---	---	---	‡55	24	18	18	28	101
27	---	---	---	---	---	---	---	24	17	17	22	85
28	---	---	---	---	---	---	---	23	20	17	31	81
29	---	---	---	---	---	---	---	23	21	17	43	73
30	---	---	---	---	---	---	---	22	20	16	42	65
31	---	---	---	---	---	---	---	21	---	16	34	---
TOTAL	---	---	---	---	---	---	---	1193	628	629	621	2962
MEAN	---	---	---	---	---	---	---	38.5	20.9	20.3	20.0	98.7
MAX	---	---	---	---	---	---	---	65	41	31	46	267
MIN	---	---	---	---	---	---	---	21	15	14	11	22
AC-FT	---	---	---	---	---	---	---	2370	1250	1250	1230	5880
CFSM	---	---	---	---	---	---	---	1.85	1.01	0.98	0.96	4.75
IN.	---	---	---	---	---	---	---	2.13	1.12	1.12	1.11	5.30

‡ Result of discharge measurement
e Estimated

15300250 UPPER TALARIK CREEK NEAR ILIAMNA

LOCATION.--Lat 59°47'12", long 155°15'11", in NE$^1/_4$ NW$^1/_4$ SW$^1/_4$ sec. 35, T.04 S., R.35 W.(Iliamna D-7 quad), Hydrologic Unit 19030206, on left bank, 17 miles upstream from the mouth, and 12 miles northwest of Iliamna.

DRAINAGE AREA.-- 86.6 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 425 ft above sea level, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	724	216	451	e134	e117	e118	e111	706	286	196	153	180
2	417	223	346	e132	e117	e120	e111	627	273	188	144	177
3	354	e218	257	e130	e116	122	e111	559	261	182	139	191
4	377	e214	240	e128	e117	121	e112	563	255	175	137	324
5	363	e208	216	e126	e117	121	e112	587	251	166	158	335
6	313	e202	e215	e125	e118	123	112	624	244	165	142	494
7	277	e198	e213	e124	e118	128	118	574	243	159	140	379
8	255	e214	e211	e123	e117	136	122	539	243	157	134	326
9	292	238	e209	e122	e117	143	130	476	247	201	132	613
10	335	280	209	e121	e117	139	136	466	233	211	129	691
11	281	258	209	e121	e117	143	137	460	228	187	127	418
12	258	255	210	121	e118	146	129	480	226	198	124	492
13	241	298	209	e121	e118	149	132	493	217	192	122	470
14	246	346	200	e121	e119	152	139	493	212	174	118	382
15	240	449	199	e121	119	150	155	453	208	167	121	509
16	257	266	e195	e120	119	145	166	405	199	194	119	670
17	238	228	e190	e120	120	e135	154	383	196	197	125	478
18	227	242	e180	e119	127	e130	135	366	284	179	138	395
19	316	274	175	e119	129	e125	131	347	253	170	150	354
20	279	304	172	e119	130	e120	131	340	229	165	136	322
21	257	279	163	e119	132	e119	192	342	210	159	139	305
22	248	337	e161	e119	130	e118	455	397	200	155	140	348
23	423	351	e156	e119	128	e117	570	409	195	151	275	454
24	532	327	e152	e119	128	e116	487	374	187	155	344	538
25	353	293	e150	e119	126	e115	477	358	183	154	234	496
26	450	268	e152	e119	125	e114	549	348	180	157	183	437
27	590	649	e148	e118	e118	e114	653	339	179	152	180	378
28	464	853	e144	118	e117	e113	784	337	177	148	227	379
29	373	469	e140	e118	---	e112	858	336	174	163	248	353
30	306	380	e138	e118	---	e111	751	312	175	153	221	330
31	276	---	e136	e117	---	e110	---	306	---	152	193	---
TOTAL	10562	9337	6146	3770	3391	3925	8360	13799	6648	5322	5072	12218
MEAN	341	311	198	122	121	127	279	445	222	172	164	407
MAX	724	853	451	134	132	152	858	706	286	211	344	691
MIN	227	198	136	117	116	110	111	306	174	148	118	177
AC-FT	20950	18520	12190	7480	6730	7790	16580	27370	13190	10560	10060	24230
CFSM	3.94	3.60	2.29	1.40	1.40	1.46	3.22	5.14	2.56	1.98	1.89	4.70
IN.	4.54	4.01	2.64	1.62	1.46	1.69	3.59	5.93	2.86	2.29	2.18	5.25

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

MEAN	341	311	198	122	121	127	279	445	222	172	164	297
MAX	341	311	198	122	121	127	279	445	222	172	164	407
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
MIN	341	311	198	122	121	127	279	445	222	172	164	188
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2004

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005#	
ANNUAL TOTAL	88550			
ANNUAL MEAN	243		243	
HIGHEST DAILY MEAN	858	Apr 29	1390	Sep 30 2004
LOWEST DAILY MEAN	110	Mar 31	100	Sep 17 2004
ANNUAL SEVEN-DAY MINIMUM	111	Mar 29	101	Sep 12 2004
MAXIMUM PEAK FLOW	1280	Apr 29	1620	Sep 30 2004
MAXIMUM PEAK STAGE	18.94	Apr 29	19.23	Sep 30 2004
MAXIMUM PEAK STAGE	a19.85	Feb 4	a19.85	Feb 4 2005
ANNUAL RUNOFF (AC-FT)	175600		175800	
ANNUAL RUNOFF (CFSM)	2.80		2.80	
ANNUAL RUNOFF (INCHES)	38.05		38.08	
10 PERCENT EXCEEDS	467		467	
50 PERCENT EXCEEDS	191		191	
90 PERCENT EXCEEDS	118		118	

\# See Period of Record; partial year was used in monthly statistics
a Backwater from ice
e Estimated

15300300 ILIAMNA RIVER NEAR PEDRO BAY

LOCATION.--Lat 59°45'31", long 153°50'41", in NE$^1/_4$ SE$^1/_4$ 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. Precipitation gage at station.

REVISED RECORDS.--WRD AK-04-1: 1998-2001 (M), 2003 (M).

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1520	481	644	e200	e220	e120	e170	1420	2590	1900	e700	562
2	993	e470	579	466	e210	e120	e170	1240	2180	1600	e680	490
3	1250	e450	533	593	e210	e120	e170	1120	1950	1680	e620	481
4	4360	e420	e500	819	e200	e130	e170	1100	1990	1470	e580	833
5	2700	e400	e470	623	e200	e140	e170	1960	2340	1270	e570	845
6	1460	e390	e440	e350	e190	e160	e160	3180	2270	1300	e550	1150
7	1030	e380	e400	e290	e190	e180	e160	2540	2310	1390	e530	1270
8	820	e370	e360	e280	e180	198	e160	2030	3450	1370	e520	989
9	880	480	344	e280	e180	325	e160	1690	3100	1240	e510	2230
10	855	520	318	e270	e170	281	e160	1810	2690	1290	e500	2530
11	1020	464	303	e270	e170	261	161	1820	2460	1160	e480	1460
12	2590	392	294	e270	e170	268	161	2500	2420	1650	476	1350
13	1740	416	289	e260	e160	280	159	2820	2100	2840	477	2050
14	1680	412	273	e260	e160	248	162	3330	2070	1510	472	1290
15	1270	521	261	e260	e160	235	165	2720	2330	1160	450	2780
16	1030	480	293	e260	e160	221	172	1990	2570	1900	420	4040
17	852	491	300	e250	e160	213	171	1760	2660	1630	500	1780
18	730	441	334	e250	e150	202	170	1700	3880	1300	557	1150
19	750	455	325	e250	e150	195	176	1830	2830	1210	483	871
20	699	479	e320	e250	e150	191	194	1800	1890	1090	434	715
21	653	466	e310	e250	e150	210	276	2060	1820	961	566	609
22	598	601	e300	e250	e140	188	760	1950	1880	912	532	572
23	843	680	e290	e250	e140	184	660	2130	1860	840	828	854
24	947	684	e280	e250	e140	177	670	2250	1570	e1000	853	1450
25	793	592	e280	e240	e130	e170	661	1950	1640	e900	662	1770
26	725	530	e270	e240	e130	e170	736	1940	1490	e800	556	1370
27	708	591	e260	e240	e120	e170	1020	3640	1790	e700	495	2170
28	687	1000	e250	e230	e120	e170	1260	4600	1880	e650	485	1560
29	632	744	e240	e230	---	173	1370	4700	1940	e630	774	1110
30	560	625	e230	e220	---	173	1500	3480	2030	e610	789	910
31	498	---	e210	e220	---	e170	---	2970	---	e600	641	---
TOTAL	35873	15425	10500	9371	4610	6043	12254	72030	67980	38563	17690	41241
MEAN	1157	514	339	302	165	195	408	2324	2266	1244	571	1375
MAX	4360	1000	644	819	220	325	1500	4700	3880	2840	853	4040
MIN	498	370	210	200	120	120	159	1100	1490	600	420	481
AC-FT	71150	30600	20830	18590	9140	11990	24310	142900	134800	76490	35090	81800
CFSM	9.04	4.02	2.65	2.36	1.29	1.52	3.19	18.2	17.7	9.72	4.46	10.7
IN.	10.43	4.48	3.05	2.72	1.34	1.76	3.56	20.93	19.76	11.21	5.14	11.99

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2005, BY WATER YEAR (WY)#

MEAN	1140	661	332	223	190	168	283	1364	2503	1639	1043	1259
MAX	2924	2346	976	410	688	407	500	2324	3790	2931	1631	2178
(WY)	2004	2003	2003	2002	2003	1998	1998	2005	1998	2001	1999	1999
MIN	289	161	84.5	75.2	61.6	60.6	87.8	752	1716	788	479	357
(WY)	1997	1997	1997	1998	1998	1999	1999	2001	1996	1997	2004	2004

\# See Period of Record; partial year was used in monthly statistics.
e Estimated

15300300 ILIAMNA RIVER NEAR PEDRO BAY—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1996 - 2005#	
ANNUAL TOTAL	310164		331580			
ANNUAL MEAN	847		908		922	
HIGHEST ANNUAL MEAN					1188	2003
LOWEST ANNUAL MEAN					622	1997
HIGHEST DAILY MEAN	5740	Jul 27	4700	May 29	33800	Oct 1 2003
LOWEST DAILY MEAN	a60	Jan 28	b120	Feb 27	c38	Jan 5 1997
ANNUAL SEVEN-DAY MINIMUM	66	Jan 24	123	Feb 25	40	Jan 2 1997
MAXIMUM PEAK FLOW			5940	Oct 4	d53000	Oct 1 2003
MAXIMUM PEAK STAGE			64.92	Oct 4	78.42	Oct 1 2003
ANNUAL RUNOFF (AC-FT)	615200		657700		668000	
ANNUAL RUNOFF (CFSM)	6.62		7.10		7.20	
ANNUAL RUNOFF (INCHES)	90.14		96.37		97.87	
10 PERCENT EXCEEDS	2340		2150		2250	
50 PERCENT EXCEEDS	426		562		495	
90 PERCENT EXCEEDS	80		170		90	

\# See Period of Record; partial year was used in monthly statistics.
a Jan. 28-30
b Feb. 27 to Mar. 3
c Jan. 5-6, 1997
d From rating curve extended above 8,900 ft^3/s on the basis of a slope-conveyance computation at gage height 78.42 ft.

15302200 KOKTULI RIVER NEAR ILIAMNA

LOCATION.--Lat 59°47'36", long 155°31'21", in NW¼ NE¼ NE¼ sec. 31, T.4 S., R.36 W.(Iliamna D-7 quad), Hydrologic Unit 19030302, on left bank, 15 miles upstream from the mouth of North Fork Koktuli River, and 21.5 miles northwest of Iliamna.

DRAINAGE AREA.-- 69.1 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 775 ft above sea level, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	608	e250	382	117	e86	e55	e44	432	401	146	95	200
2	450	226	300	e116	e83	e54	e43	506	364	148	88	185
3	358	e215	233	e115	e81	54	e42	526	338	155	85	200
4	410	e210	201	e114	e79	55	e42	618	324	140	84	333
5	356	206	e190	e113	e77	54	e41	752	310	130	89	346
6	303	199	e180	e112	e75	54	e40	907	295	124	82	690
7	270	197	e175	e111	e74	53	e40	984	291	116	78	510
8	250	194	e170	e110	e73	54	e39	891	286	111	74	422
9	277	187	e165	e109	e72	57	39	809	277	120	70	881
10	321	201	e160	e108	e71	57	38	798	257	131	67	833
11	278	198	e155	e107	e71	57	e38	825	242	121	65	694
12	275	224	153	e106	e70	58	e38	890	233	150	63	769
13	249	240	150	e105	e70	59	e38	924	219	147	61	666
14	249	293	148	e104	e69	58	39	893	210	128	60	572
15	238	335	139	e103	e69	60	e38	852	201	115	59	785
16	259	237	e137	103	e68	55	e38	772	192	131	59	807
17	234	192	e135	e103	e68	54	e37	692	187	142	66	685
18	220	195	e133	e103	e67	e53	e37	606	290	133	70	598
19	294	196	e131	e103	e67	53	e37	582	267	124	80	512
20	261	207	e129	e104	e66	53	37	567	242	118	70	455
21	246	210	e128	104	e66	e52	44	561	213	109	75	418
22	239	246	e127	105	65	e51	71	621	195	102	73	440
23	405	261	e126	105	63	e50	79	642	188	99	271	496
24	472	253	e125	105	61	e49	93	582	176	99	409	525
25	378	218	e124	105	60	48	99	559	166	99	297	476
26	511	208	e123	104	58	48	133	529	158	97	235	445
27	549	489	e122	e103	e57	46	201	542	151	95	203	413
28	486	548	e121	e101	e56	e46	256	538	151	93	248	406
29	413	462	e120	e99	---	e45	351	531	145	92	270	380
30	325	381	e119	97	---	e45	365	483	141	90	244	358
31	e290	---	e118	e90	---	e44	---	443	---	91	217	---
TOTAL	10474	7678	4919	3284	1942	1631	2477	20857	7110	3696	4007	15500
MEAN	338	256	159	106	69.4	52.6	82.6	673	237	119	129	517
MAX	608	548	382	117	86	60	365	984	401	155	409	881
MIN	220	187	118	90	56	44	37	432	141	90	59	185
AC-FT	20780	15230	9760	6510	3850	3240	4910	41370	14100	7330	7950	30740
CFSM	4.89	3.70	2.30	1.53	1.00	0.76	1.19	9.73	3.43	1.72	1.87	7.47
IN.	5.64	4.13	2.65	1.77	1.05	0.88	1.33	11.22	3.83	1.99	2.16	8.34

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

MEAN	338	256	159	106	69.4	52.6	82.6	673	237	119	129	303
MAX	338	256	159	106	69.4	52.6	82.6	673	237	119	129	517
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
MIN	338	256	159	106	69.4	52.6	82.6	673	237	119	129	89.0
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2004

SUMMARY STATISTICS	FOR 2005 WATER YEAR		WATER YEARS 2004 - 2005#	
ANNUAL TOTAL	83575			
ANNUAL MEAN	229		229	
HIGHEST ANNUAL MEAN			229	2005
LOWEST ANNUAL MEAN			229	2005
HIGHEST DAILY MEAN	984	May 7	984	May 7 2005
LOWEST DAILY MEAN	a37	Apr 17	36	Sep 17 2004
ANNUAL SEVEN-DAY MINIMUM	38	Apr 14	37	Sep 12 2004
MAXIMUM PEAK FLOW	1440	Sep 9	1440	Sep 9 2005
MAXIMUM PEAK STAGE	19.52	Sep 9	19.52	Sep 9 2005
MAXIMUM PEAK STAGE	b19.89	Jan 13	b19.89	Jan 13 2005
ANNUAL RUNOFF (AC-FT)	165800		165900	
ANNUAL RUNOFF (CFSM)	3.31		3.31	
ANNUAL RUNOFF (INCHES)	44.97		45.00	
10 PERCENT EXCEEDS	544		544	
50 PERCENT EXCEEDS	145		145	
90 PERCENT EXCEEDS	54		54	

\# See Period of Record; partial year was used in monthly statistics.
a Apr. 17-20
b Backwater from ice
e Estimated

15302250 NORTH FORK KOKTULI RIVER NEAR ILIAMNA

LOCATION.--Lat 59°50′35″, long 155°42′59″, in SW¼ NW¼ SW¼ sec. 7, T.04 S., R.37 W.(Iliamna D-8 quad), Hydrologic Unit 19030302, on left bank, 3.5 miles upstream from the mouth, and 28.5 miles northwest of Iliamna.

DRAINAGE AREA.-- 105.6 mi^2.

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 613 ft above sea level, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	770	e280	622	e98	e74	e69	e64	1330	603	222	162	240
2	449	e250	536	e96	e73	e69	e64	1270	546	225	156	220
3	395	e220	e470	e95	e73	e69	e63	1140	517	271	146	252
4	489	e215	e410	e94	e73	e68	e63	1210	490	237	155	540
5	450	e210	e370	e92	e73	e68	e63	1570	475	206	249	471
6	357	e205	e330	e90	e73	e68	e63	1820	460	197	167	805
7	301	e201	e305	e89	e72	e68	e63	1680	474	178	144	567
8	268	e200	e280	e88	e72	e68	e63	1410	452	166	132	412
9	287	e198	e255	e87	e72	e68	e62	1160	436	198	123	904
10	350	e210	e235	e86	e72	e67	e62	1130	406	250	117	829
11	291	e205	e215	e85	e72	e67	e62	1140	386	211	112	524
12	300	e230	e200	e84	e72	e67	e62	1190	378	266	106	748
13	269	e270	e190	e83	e71	e67	e62	1200	355	272	103	620
14	264	390	e180	e81	e71	e67	e62	1100	338	219	101	476
15	252	517	e170	e80	e71	e67	e61	1060	327	183	100	715
16	316	404	e160	e79	e71	e66	e61	959	313	185	100	864
17	274	391	e150	e79	e71	e66	e61	894	306	209	114	584
18	246	324	e145	e78	e71	e66	e61	786	443	217	139	517
19	315	341	e140	e78	e70	e66	e61	737	401	197	200	443
20	298	344	e135	e77	e70	e66	e70	732	340	186	149	398
21	286	299	e130	e77	e70	e66	e100	786	300	171	159	370
22	271	366	e126	e77	e70	e65	e150	887	285	157	148	384
23	599	454	e122	e76	e70	e65	e200	976	273	149	581	488
24	722	411	e118	e76	e70	e65	e300	901	256	150	723	540
25	431	343	e114	e76	e69	e65	e400	864	241	149	431	449
26	519	307	e110	e75	e69	e65	541	804	229	148	306	413
27	696	1130	e108	e75	e69	e65	809	791	224	144	254	380
28	520	1310	e106	e75	e69	e64	962	831	251	147	340	408
29	425	752	e104	e74	---	e64	1150	797	227	147	396	376
30	339	563	e102	e74	---	e64	1280	723	213	149	325	354
31	e310	---	e100	e74	---	e64	---	653	---	154	272	---
TOTAL	12059	11540	6738	2548	1993	2059	7145	32531	10945	5960	6710	15291
MEAN	389	385	217	82.2	71.2	66.4	238	1049	365	192	216	510
MAX	770	1310	622	98	74	69	1280	1820	603	272	723	904
MIN	246	198	100	74	69	64	61	653	213	144	100	220
AC-FT	23920	22890	13360	5050	3950	4080	14170	64530	21710	11820	13310	30330
CFSM	3.68	3.64	2.06	0.78	0.67	0.63	2.25	9.94	3.45	1.82	2.05	4.83
IN.	4.25	4.06	2.37	0.90	0.70	0.73	2.52	11.46	3.85	2.10	2.36	5.39

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

MEAN	389	385	217	82.2	71.2	66.4	238	1049	365	192	216	338
MAX	389	385	217	82.2	71.2	66.4	238	1049	365	192	216	510
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
MIN	389	385	217	82.2	71.2	66.4	238	1049	365	192	216	167
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2004

SUMMARY STATISTICS	FOR 2005 WATER YEAR	
ANNUAL TOTAL	115519	
ANNUAL MEAN	316	
HIGHEST DAILY MEAN	1820	May 6
LOWEST DAILY MEAN	a61	Apr 15
ANNUAL SEVEN-DAY MINIMUM	61	Apr 13
MAXIMUM PEAK FLOW	2240	Nov 27
MAXIMUM PEAK STAGE	20.44	Nov 27
ANNUAL RUNOFF (AC-FT)	229100	
ANNUAL RUNOFF (CFSM)	3.00	
ANNUAL RUNOFF (INCHES)	40.69	
10 PERCENT EXCEEDS	786	
50 PERCENT EXCEEDS	211	
90 PERCENT EXCEEDS	67	

\# See Period of Record; partial year was used in monthly statistics
a Apr. 15-19
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, 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. GOES satellite telemetry 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 2004, April to September 2005: maximum discharge during period, 959 ft^3/s, May 11, gage height 9.90 ft; minimum discharge not determined, occurs during winter.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	165	---	---	---	---	---	e60	713	141	88	41	60
2	172	---	---	---	---	---	e60	793	125	82	40	57
3	80	---	---	---	---	---	e60	839	114	79	50	75
4	57	---	---	---	---	---	e60	854	103	90	50	165
5	72	---	---	---	---	---	e60	809	96	106	49	136
6	75	---	---	---	---	---	e60	700	89	96	49	195
7	43	---	---	---	---	---	e60	703	86	80	40	173
8	41	---	---	---	---	---	e60	797	88	70	44	123
9	41	---	---	---	---	---	e60	840	84	76	40	151
10	40	---	---	---	---	---	e65	918	78	75	41	246
11	54	---	---	---	---	---	e60	922	78	73	41	167
12	41	---	---	---	---	---	e60	863	95	62	42	154
13	52	---	---	---	---	---	e65	791	82	63	39	153
14	55	---	---	---	---	---	e70	709	80	61	39	142
15	38	---	---	---	---	---	e75	598	115	53	39	146
16	40	---	---	---	---	---	e60	538	95	71	37	198
17	42	---	---	---	---	---	e60	479	77	89	38	172
18	39	---	---	---	---	---	e60	524	86	90	37	138
19	66	---	---	---	---	---	e60	454	100	69	37	127
20	100	---	---	---	---	---	e65	392	91	56	37	109
21	107	---	---	---	---	---	71	353	79	59	51	104
22	e90	---	---	---	---	---	92	305	75	59	60	119
23	e110	---	---	---	---	---	164	270	87	52	80	285
24	e95	---	---	---	---	---	199	231	82	48	85	307
25	e85	---	---	---	---	---	244	212	73	46	76	242
26	e75	---	---	---	---	---	277	189	63	46	60	226
27	e70	---	---	---	---	---	254	175	60	45	55	197
28	e65	---	---	---	---	---	247	160	54	44	57	173
29	e60	---	---	---	---	---	339	151	52	47	73	157
30	e55	---	---	---	---	---	564	148	66	45	79	148
31	e50	---	---	---	---	---	---	142	---	43	70	---
TOTAL	2175	---	---	---	---	---	3691	16572	2594	2063	1576	4845
MEAN	70.2	---	---	---	---	---	123	535	86.5	66.5	50.8	162
MAX	172	---	---	---	---	---	564	922	141	106	85	307
MIN	38	---	---	---	---	---	60	142	52	43	37	57
AC-FT	4310	---	---	---	---	---	7320	32870	5150	4090	3130	9610
CFSM	0.91	---	---	---	---	---	1.60	6.95	1.12	0.87	0.66	2.10
IN.	1.05	---	---	---	---	---	1.79	8.02	1.25	1.00	0.76	2.34

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.--No record from October 21 to March 31 when recorder was shut down. Records represent water temperature at the sensor within 0.5°C. Temperature at the sensor was compared with the average for the river by cross section on August 24. A 0.3°C variation was found within the cross section. The variation between mean stream temperature and recorded sensor temperature was less than 0.5°C.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE.--Maximum, 16.5°C, July 30 to August 2, and 4, 1997; minimum, 0.0°C, many days during fall, winter, and spring breakup periods most water years.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 14.0°C, August 10; minimum, 0.0°C, many days during winter.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Sample location, cross section ft from rt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Sampler type, code (84164)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
AUG									
24...	1250	30.0	3.0	4.14	83	10	8010	8.6	11.2
24...	1252	30.0	9.0	4.14	83	10	8010	8.5	11.2
24...	1254	30.0	15.0	4.14	83	10	8010	8.5	11.2
24...	1256	30.0	21.0	4.14	83	10	8010	8.4	11.2
24...	1258	30.0	27.0	4.14	83	10	8010	8.3	11.2

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
2	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
3	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
4	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
5	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
6	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
7	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
8	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
9	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
10	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
11	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
12	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
13	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
14	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
15	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
16	0.5	0.0	0.0	---	---	---	---	---	---	---	---	---
17	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
18	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
19	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
20	0.0	0.0	0.0	---	---	---	---	---	---	---	---	---
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 2004 TO SEPTEMBER 2005

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	0.5	0.0	0.0
8	---	---	---	---	---	---	0.0	0.0	0.0	0.5	0.0	0.0
9	---	---	---	---	---	---	0.0	0.0	0.0	1.0	0.0	0.5
10	---	---	---	---	---	---	0.0	0.0	0.0	2.0	0.0	1.0
11	---	---	---	---	---	---	0.0	0.0	0.0	2.5	0.5	1.5
12	---	---	---	---	---	---	0.0	0.0	0.0	2.5	1.0	1.5
13	---	---	---	---	---	---	0.0	0.0	0.0	3.0	1.0	2.0
14	---	---	---	---	---	---	0.0	0.0	0.0	3.0	1.5	2.5
15	---	---	---	---	---	---	0.0	0.0	0.0	3.0	1.5	2.0
16	---	---	---	---	---	---	0.0	0.0	0.0	2.5	2.0	2.5
17	---	---	---	---	---	---	0.0	0.0	0.0	2.5	1.5	2.0
18	---	---	---	---	---	---	0.0	0.0	0.0	3.5	2.5	2.5
19	---	---	---	---	---	---	0.0	0.0	0.0	3.5	2.5	3.0
20	---	---	---	---	---	---	0.0	0.0	0.0	4.0	3.0	3.5
21	---	---	---	---	---	---	0.0	0.0	0.0	5.0	4.0	4.5
22	---	---	---	---	---	---	0.0	0.0	0.0	5.5	4.5	5.0
23	---	---	---	---	---	---	0.0	0.0	0.0	5.0	4.0	4.5
24	---	---	---	---	---	---	0.0	0.0	0.0	5.5	4.0	5.0
25	---	---	---	---	---	---	0.0	0.0	0.0	5.5	4.5	5.0
26	---	---	---	---	---	---	0.0	0.0	0.0	6.0	4.5	5.0
27	---	---	---	---	---	---	0.0	0.0	0.0	6.5	5.0	5.5
28	---	---	---	---	---	---	0.0	0.0	0.0	6.5	5.5	6.0
29	---	---	---	---	---	---	0.0	0.0	0.0	6.5	5.0	6.0
30	---	---	---	---	---	---	0.0	0.0	0.0	7.0	5.5	6.0
31	---	---	---	---	---	---	---	---	---	7.0	5.5	6.0
MONTH	---	---	---	---	---	---	0.0	0.0	0.0	7.0	0.0	2.7

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.0	6.0	6.5	10.5	9.5	10.0	12.5	10.0	11.5	7.0	5.5	6.0
2	7.0	5.5	6.0	11.5	9.5	10.5	11.0	9.5	10.5	5.5	4.0	5.0
3	7.5	5.5	6.0	11.0	9.5	10.0	11.5	9.0	10.0	5.5	5.0	5.5
4	7.5	5.5	6.5	10.5	9.5	10.0	11.5	9.5	10.5	6.0	5.5	5.5
5	8.0	6.0	7.0	11.0	9.0	10.0	11.0	9.5	10.5	7.0	6.0	6.5
6	8.5	6.0	7.5	11.5	9.0	10.5	12.5	10.0	11.0	7.0	6.5	7.0
7	9.0	6.5	8.0	12.5	10.0	11.0	12.5	10.5	11.5	7.0	6.5	6.5
8	9.0	8.0	8.5	12.5	11.0	11.5	13.5	11.0	12.0	7.0	6.5	6.5
9	8.0	6.5	7.5	12.5	10.5	11.5	13.5	10.0	11.5	6.5	6.5	6.5
10	9.0	6.5	8.0	13.5	11.0	12.0	14.0	11.0	12.0	7.0	6.0	6.5
11	9.0	8.0	8.0	13.0	11.5	12.0	13.0	10.5	12.0	6.5	6.0	6.5
12	9.0	6.5	8.0	12.0	11.0	11.5	13.0	10.0	11.5	6.5	6.5	6.5
13	8.5	7.5	8.0	12.0	10.0	11.0	13.0	10.5	11.5	6.5	6.0	6.5
14	10.0	7.5	8.5	12.5	10.0	11.0	13.0	10.5	11.5	6.5	6.0	6.0
15	10.0	8.5	9.5	13.5	10.5	12.0	12.5	10.5	11.5	6.0	6.0	6.0
16	11.0	9.0	9.5	12.0	11.0	11.5	12.0	10.5	11.0	6.5	6.0	6.0
17	12.0	9.5	10.5	11.5	10.0	10.5	13.0	10.5	11.5	6.0	5.5	6.0
18	11.5	9.5	10.5	11.5	10.0	10.5	12.5	11.0	11.5	5.5	5.5	5.5
19	9.5	8.0	8.5	10.5	10.0	10.5	11.0	9.0	10.0	5.5	5.0	5.0
20	8.5	7.5	8.0	11.0	9.5	10.0	9.5	7.5	8.5	5.5	4.5	5.0
21	9.5	7.5	8.0	11.5	9.0	10.0	9.0	8.5	8.5	5.0	4.5	4.5
22	10.5	8.0	9.0	12.0	9.0	10.5	8.5	7.5	8.0	6.0	4.5	5.0
23	11.0	9.0	10.0	12.5	9.5	11.0	9.0	7.5	8.0	6.0	6.0	6.0
24	10.5	9.0	9.5	12.5	10.5	11.5	9.0	8.0	8.5	6.0	5.0	5.0
25	11.0	8.5	9.5	12.0	10.0	11.0	8.5	7.0	7.5	5.0	5.0	5.0
26	11.0	9.0	10.0	12.5	10.5	11.5	7.5	7.0	7.5	5.0	4.5	4.5
27	11.5	9.0	10.5	12.5	10.0	11.5	7.5	6.5	7.0	4.5	4.0	4.5
28	12.5	9.5	11.0	12.0	10.5	11.0	7.5	7.0	7.0	4.5	3.5	4.0
29	11.5	10.5	11.0	12.0	10.0	11.0	8.0	7.0	7.5	3.5	3.0	3.5
30	11.0	10.5	11.0	13.5	11.0	12.0	8.5	7.0	8.0	3.0	2.5	2.5
31	---	---	---	13.5	11.5	12.5	8.0	7.0	7.5	---	---	---
MONTH	12.5	5.5	8.7	13.5	9.0	11.0	14.0	6.5	9.9	7.0	2.5	5.5

15303900 KUSKOKWIM RIVER AT LISKYS CROSSING NEAR STONY RIVER

LOCATION.--Lat 62°03'07", long 156°12'38", in SW¼ 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.

DRAINAGE AREA.--15,600 mi^2, approximately.

PERIOD OF RECORD.--May 1996 to September 2005 (gage height only, no winter record)(discontinued).

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above sea level from topographic map.

REMARKS.--Rain gage at station. GOES satellite telemetry at station.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height observed 34.11 ft, August 1, 2003, 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 1-29, 2004, May 19 to September 30, 2005; Maximum gage height 32.31 ft, May 19, but may have been higher during a period of missing record; minimum gage height 23.40 ft, October 18, 2004.

GAGE HEIGHT, FEET, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	23.87	---	---	---	---	---	---	---	28.07	28.60	27.30	---
2	23.91	---	---	---	---	---	---	---	27.79	28.56	27.30	---
3	23.94	---	---	---	---	---	---	---	27.63	28.74	27.50	---
4	24.24	---	---	---	---	---	---	---	27.61	29.07	27.60	---
5	24.41	---	---	---	---	---	---	---	27.61	29.37	27.47	---
6	24.23	---	---	---	---	---	---	---	27.53	29.32	27.25	---
7	24.04	---	---	---	---	---	---	---	27.52	29.29	27.08	---
8	23.94	---	---	---	---	---	---	---	27.44	29.33	26.96	---
9	23.83	---	---	---	---	---	---	---	27.73	29.30	26.90	27.10
10	23.75	---	---	---	---	---	---	---	27.75	29.10	26.87	27.34
11	23.69	---	---	---	---	---	---	---	27.88	28.83	26.85	27.65
12	23.63	---	---	---	---	---	---	---	27.86	28.63	26.86	27.94
13	23.58	---	---	---	---	---	---	---	27.67	28.48	26.93	28.78
14	23.55	---	---	---	---	---	---	---	27.62	28.40	27.07	29.43
15	23.53	---	---	---	---	---	---	---	27.89	28.36	27.24	29.50
16	23.50	---	---	---	---	---	---	---	28.28	28.35	---	29.52
17	23.45	---	---	---	---	---	---	---	28.23	28.19	---	29.41
18	23.44	---	---	---	---	---	---	---	28.34	27.95	---	29.27
19	23.58	---	---	---	---	---	---	---	28.76	27.84	---	29.26
20	23.67	---	---	---	---	---	---	31.93	29.30	27.91	---	29.10
21	23.88	---	---	---	---	---	---	31.40	29.79	27.91	---	28.92
22	24.07	---	---	---	---	---	---	30.91	30.56	27.81	---	28.81
23	24.48	---	---	---	---	---	---	30.52	30.89	27.77	---	28.74
24	24.95	---	---	---	---	---	---	30.15	30.51	27.70	---	28.80
25	25.20	---	---	---	---	---	---	29.90	29.73	27.56	---	29.16
26	25.35	---	---	---	---	---	---	29.73	29.24	27.44	---	29.64
27	25.48	---	---	---	---	---	---	29.50	28.94	27.31	---	29.93
28	25.57	---	---	---	---	---	---	29.23	28.70	27.29	---	30.04
29	25.40	---	---	---	---	---	---	29.06	28.62	27.25	---	30.00
30	---	---	---	---	---	---	---	28.83	28.63	27.16	---	29.77
31	---	---	---	---	---	---	---	28.54	---	27.19	---	---
MEAN	---	---	---	---	---	---	---	---	28.47	28.26	---	---
MAX	---	---	---	---	---	---	---	---	30.89	29.37	---	---
MIN	---	---	---	---	---	---	---	---	27.44	27.16	---	---

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.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	31700	e38000	e20000	e16000	e14000	e13000	e11000	e90000	84700	64300	47700	58600
2	39800	e34000	e19000	e16000	e14000	e13000	e11000	e110000	80800	65400	46700	55700
3	43800	e30000	e19000	e16000	e14000	e13000	e11000	e120000	77200	65900	46000	53900
4	42700	e27000	e19000	e16000	e14000	e12000	e11000	e150000	74300	67200	46300	53000
5	41500	e26000	e19000	e16000	e14000	e12000	e11000	e180000	71300	69100	46000	53600
6	41400	e25500	e19000	e16000	e14000	e12000	e11000	204000	68900	70400	45300	56200
7	41100	e25000	e19000	e16000	e14000	e12000	e11000	197000	66500	69800	44400	58600
8	40000	e24500	e19000	e16000	e14000	e12000	e11000	193000	64300	68100	43200	59900
9	38600	e24000	e19000	e16000	e14000	e12000	e11000	194000	62900	67000	42500	62200
10	37400	e23500	e19000	e16000	e14000	e12000	e11000	194000	62200	65600	41800	64300
11	36800	e23000	e19000	e16000	e14000	e12000	e11000	194000	62300	63600	41200	73200
12	36700	e23000	e19000	e15000	e13000	e12000	e11000	194000	63000	62200	41100	81600
13	35900	e23000	e19000	e15000	e13000	e12000	e11000	193000	64400	60900	41200	82400
14	34900	e23000	e19000	e15000	e13000	e12000	e11000	190000	65600	59600	41200	83500
15	34600	e23000	e18000	e15000	e13000	e12000	e11000	183000	65200	58400	41700	85900
16	35200	e22000	e18000	e15000	e13000	e12000	e11000	176000	65200	57300	42200	85100
17	35700	e22000	e18000	e15000	e13000	e12000	e11000	167000	67100	56100	42300	84000
18	36000	e22000	e18000	e15000	e13000	e12000	e11000	161000	68400	56000	42600	83100
19	35800	e22000	e18000	e15000	e13000	e12000	e11000	153000	72100	55900	42500	81400
20	36000	e21000	e18000	e15000	e13000	e12000	e11500	144000	79600	55900	42300	78600
21	37900	e21000	e18000	e15000	e13000	e12000	e12000	137000	84600	55800	42400	75600
22	39600	e21000	e18000	e15000	e13000	e12000	e13000	130000	83300	55400	42000	73300
23	40700	e21000	e17000	e15000	e13000	e12000	e14000	124000	82000	54200	44500	72800
24	43400	e21000	e17000	e15000	e13000	e12000	e15000	119000	80700	53500	47200	74300
25	47700	e20000	e17000	e15000	e13000	e12000	e17000	114000	77100	52200	50900	77200
26	51200	e20000	e17000	e14000	e13000	e12000	e19000	111000	72000	51200	56300	82800
27	52200	e20000	e17000	e14000	e13000	e12000	e24000	109000	68700	50200	57900	86000
28	53200	e20000	e17000	e14000	e13000	e12000	e30000	105000	66600	49800	56100	85900
29	e51000	e20000	e17000	e14000	---	e12000	e40000	99300	65200	49600	55600	83600
30	e46000	e20000	e17000	e14000	---	e12000	e60000	93200	63900	48300	56200	80800
31	e41000	---	e17000	e14000	---	e11000	---	88500	---	47800	59000	---
TOTAL	1259500	705500	564000	470000	375000	374000	464500	4617000	2130100	1826700	1436300	2187100
MEAN	40630	23520	18190	15160	13390	12060	15480	148900	71000	58930	46330	72900
MAX	53200	38000	20000	16000	14000	13000	60000	204000	84700	70400	59000	86000
MIN	31700	20000	17000	14000	13000	11000	11000	88500	62200	47800	41100	53000
AC-FT	2498000	1399000	1119000	932200	743800	741800	921300	9158000	4225000	3623000	2849000	4338000
CFSM	1.31	0.76	0.59	0.49	0.43	0.39	0.50	4.79	2.28	1.89	1.49	2.34
IN.	1.51	0.84	0.67	0.56	0.45	0.45	0.56	5.52	2.55	2.18	1.72	2.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1951 - 2005, BY WATER YEAR (WY)#

MEAN	44820	21950	15590	13190	11770	10810	15300	81640	82170	67690	74990	68230
MAX	102000	43110	31100	23030	20710	19550	47570	161700	235100	119500	169800	150900
(WY)	1994	2003	2003	2003	1991	1991	2004	1957	1964	1980	1963	1951
MIN	22650	12730	10000	8400	6900	6100	8600	22130	33880	40910	41840	29770
(WY)	1979	1981	1957	1966	1966	1966	1953	1964	1954	1997	1957	2004

\# See Period of Record; partial year was used in monthly statistics and break in record
e Estimated

15304000 KUSKOKWIM RIVER AT CROOKED CREEK—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1951 - 2005#	
ANNUAL TOTAL	14065600		16409700			
ANNUAL MEAN	38430		44960		42360	
HIGHEST ANNUAL MEAN					62120	1963
LOWEST ANNUAL MEAN					28600	1997
HIGHEST DAILY MEAN	126000	May 2	204000	May 6	391000	Jun 5 1964
LOWEST DAILY MEAN	a11000	Feb 26	b11000	Mar 31	c6100	Mar 1 1966
ANNUAL SEVEN-DAY MINIMUM	11000	Feb 26	11000	Mar 31	6100	Mar 1 1966
MAXIMUM PEAK FLOW			207000	May 6	392000	Jun 5 1964
MAXIMUM PEAK STAGE			17.67	May 6		
MAXIMUM PEAK STAGE			d18.47	May 1	f25.74	Jun 5 1964
INSTANTANEOUS LOW FLOW					6100	Mar 1 1966
ANNUAL RUNOFF (AC-FT)	27900000		32550000		30690000	
ANNUAL RUNOFF (CFSM)	1.24		1.45		1.36	
ANNUAL RUNOFF (INCHES)	16.82		19.63		18.51	
10 PERCENT EXCEEDS	74300		84600		92700	
50 PERCENT EXCEEDS	30600		35700		26500	
90 PERCENT EXCEEDS	11000		12000		10000	

\# See Period of Record; partial year was used in monthly statistics and break in record
a Feb. 26 - Apr. 3
b Mar. 31 - Apr. 19
c Mar. 1-31, 1966
d Backwater from ice
f From floodmarks, backwater from ice, at different site, same datum

15304400 TAKIKCHAK RIVER NEAR NEWTOK

LOCATION.--Lat 60°48'24", long 164°35'46", in SE¼ SW¼ SW¼ sec. 5, T.08 N., R.86 W.(Baird Inlet D-7 quad), Hydrologic Unit 19030502, on right bank, 1.0 mi upstream from mouth, and 10 south of Newtok.

DRAINAGE AREA.--19.6 mi^2.

WATER-DISCHARGE RECORDS

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

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 12.5 ft above sea level, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e21	e24	e18	e16	e14	e12	e10	e10	88	48	37	35
2	e21	e23	e18	e16	e14	e12	e9.0	e10	73	47	37	42
3	e20	e22	e18	e16	e14	e12	e9.0	e12	70	46	37	39
4	e20	e19	e18	e16	e13	e11	e9.0	e14	68	46	36	38
5	e20	e18	e18	e16	e13	e11	e9.0	17	66	45	36	38
6	e20	e16	e18	e16	e13	e11	e9.0	17	66	44	36	40
7	e20	e14	e18	e15	e13	e11	e9.0	26	64	43	35	37
8	e20	e15	e18	e15	e13	e11	e9.0	25	61	43	35	36
9	21	e17	e18	e15	e13	e11	e9.0	28	60	43	35	47
10	23	e18	e17	e15	e13	e11	e9.0	34	59	43	39	42
11	20	e19	e17	e15	e13	e11	e9.0	37	57	42	38	50
12	20	e20	e17	e15	e13	e11	e9.0	41	87	42	35	56
13	20	e20	e17	e15	e13	e11	e9.0	52	60	41	35	46
14	19	e20	e17	e15	e13	e11	e9.0	61	57	41	35	47
15	22	e19	e17	e15	e13	e11	e9.0	61	55	41	34	61
16	21	e19	e17	e15	e13	e11	e8.0	66	54	42	35	53
17	20	e19	e17	e15	e13	e11	e8.0	56	60	41	35	50
18	26	e19	e17	e15	e12	e10	e8.0	40	67	40	37	49
19	25	e19	e17	e15	e12	e10	e8.0	38	56	39	34	48
20	23	e19	e17	e15	e12	e10	e8.0	37	53	39	35	46
21	22	e19	e17	e14	e12	e10	e8.0	37	53	44	35	59
22	25	e19	e17	e14	e12	e10	e8.0	41	52	50	42	80
23	32	e19	e17	e14	e12	e10	e8.0	45	51	43	49	65
24	27	e19	e16	e14	e12	e10	e8.0	51	50	41	40	60
25	24	e19	e16	e14	e12	e10	e8.0	115	50	40	37	57
26	27	e19	e16	e14	e12	e10	e8.0	169	49	54	35	56
27	31	e19	e16	e14	e12	e10	e8.0	126	49	42	38	56
28	27	e18	e16	e14	e12	e10	e8.0	102	48	39	40	55
29	27	e18	e16	e14	---	e10	e9.0	105	47	38	42	57
30	e26	e18	e16	e14	---	e10	e9.0	95	48	38	39	57
31	e25	---	e16	e14	---	e10	---	95	---	38	36	---
TOTAL	715	566	528	460	356	330	258.0	1663	1778	1323	1149	1502
MEAN	23.1	18.9	17.0	14.8	12.7	10.6	8.60	53.6	59.3	42.7	37.1	50.1
MAX	32	24	18	16	14	12	10	169	88	54	49	80
MIN	19	14	16	14	12	10	8.0	10	47	38	34	35
AC-FT	1420	1120	1050	912	706	655	512	3300	3530	2620	2280	2980
CFSM	1.18	0.96	0.87	0.76	0.65	0.54	0.44	2.74	3.03	2.18	1.89	2.56
IN.	1.36	1.08	1.00	0.87	0.68	0.63	0.49	3.16	3.38	2.52	2.19	2.86

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

MEAN	23.1	18.9	17.0	14.8	12.7	10.6	8.60	53.6	44.6	33.3	29.4	34.9
MAX	23.1	18.9	17.0	14.8	12.7	10.6	8.60	53.6	59.3	42.7	37.1	50.1
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005	2005
MIN	23.1	18.9	17.0	14.8	12.7	10.6	8.60	53.6	30.0	24.0	21.7	19.8
(WY)	2005	2005	2005	2005	2005	2005	2005	2005	2004	2004	2004	2004

SUMMARY STATISTICS	FOR 2005 WATER YEAR	
ANNUAL TOTAL	10628	
ANNUAL MEAN	29.1	
HIGHEST DAILY MEAN	169	May 26
LOWEST DAILY MEAN	a8.0	Apr 16
ANNUAL SEVEN-DAY MINIMUM	8.0	Apr 16
MAXIMUM PEAK FLOW	272	May 25
MAXIMUM PEAK STAGE	10.77	May 25
MAXIMUM PEAK STAGE	b11.08	Dec 7
ANNUAL RUNOFF (AC-FT)	21080	
ANNUAL RUNOFF (CFSM)	1.49	
ANNUAL RUNOFF (INCHES)	20.21	
10 PERCENT EXCEEDS	56	
50 PERCENT EXCEEDS	20	
90 PERCENT EXCEEDS	10	

\# See Period of Record. Partial years used in monthly statistics
a Apr. 16-28
b Backwater from ice
e Estimated

15304400 TAKIKCHAK RIVER NEAR NEWTOK—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.-- Water years 2004 to September 2005 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Location in X-sect. looking dwnstrm ft from l bank (00009)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	LoLoca-pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
OCT								
08...	1342	26.0	80	7.2	3.5	740	12.6	98
08...	1343	20.0	80	7.2	3.5	740	12.6	98
08...	1344	14.0	80	7.2	3.5	740	12.6	98
08...	1345	8.00	80	7.2	3.5	740	12.6	98
08...	1346	2.00	79	7.2	3.5	740	12.6	98
MAR								
24...	1652	6.00	87	7.2	.4	756	14.8	103
24...	1653	8.00	87	7.2	.4	756	14.9	104
24...	1654	10.0	87	7.2	.4	756	14.9	104
24...	1655	12.0	87	7.3	.4	756	14.9	104
24...	1656	14.0	87	7.3	.4	756	14.9	104
MAY								
27...	1245	5.00	42	7.2	2.8	728	--	--
27...	1246	11.0	42	7.2	2.8	728	--	--
27...	1247	17.0	42	7.1	2.8	728	--	--
27...	1248	23.0	42	7.1	2.8	728	--	--
27...	1249	29.0	42	7.1	2.8	728	--	--
SEP								
28...	1122	2.50	75	7.5	3.4	740	12.5	97
28...	1124	8.50	75	7.5	3.4	740	12.6	97
28...	1125	14.5	75	7.5	3.4	740	12.6	97
28...	1126	20.5	75	7.5	3.4	740	12.6	97
28...	1127	26.5	75	7.5	3.4	740	12.6	97

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)
OCT													
08...	1300	9	9	31.0	9.16	20	10	3044	--	80	7.2	6.9	3.5
MAR													
24...	1620	9	9	15.9	9.14	9.8	10	3044	--	87	7.2	-2.0	.5
MAY													
27...	1230	9	7	35.0	9.96	104	10	3044	100	42	7.1	12.1	2.8
SEP													
28...	1100	9	9	31.0	9.59	55	10	3044	10	75	7.5	7.2	3.4

Date	Color, water, fltrd, Pt-Co units (00080)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	Total coli-form, M-Endo, immed, col/ 100 mL (31501)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon-ate, wat flt incrm. titr., field, mg/L (00452)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)
OCT													
08...	5	740	12.6	98	27	32	6.38	3.84	4.08	.49	45	.0	37
MAR													
24...	2	756	14.9	104	<1	35	7.03	4.32	4.08	.47	49	.0	40
MAY													
27...	20	728	--	--	118	14	2.66	1.67	2.38	.36	19	.0	15
SEP													
28...	5	740	12.6	97	56	27	5.49	3.20	3.49	.33	37	.0	31

Date	Alka-linity, wat flt fxd end field, mg/L as CaCO3 (39036)	Sulfate water, fltrd, mg/L (00945)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)
OCT													
08...	38	.9	3.42	<.1	24.1	66	65	<.008	<.06	<.04	.03	4	<.20
MAR													
24...	--	.7	3.36	<.2	25.5	71	70	<.008	<.06	<.04	.03	3	<.20
MAY													
27...	16	.7	2.07	<.1	11.2	38	30	<.008	<.06	<.04	E.01	21	<.20
SEP													
28...	--	1.0	3.64	<.1	19.8	69	55	<.008	<.06	<.04	<.02	7	<.20

15304400 TAKIKCHAK RIVER NEAR NEWTOK—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)	Cadmium water, fltrd, ug/L (01025)	Chrom-ium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)
OCT													
08...	E.2	6	<.06	<.04	.8	.048	E.2	27	<.08	5.7	<.01	<.4	.20
MAR													
24...	<.2	5	<.06	<.04	1.3	.034	<.4	7	<.08	2.1	<.01	<.4	.67
MAY													
27...	<.2	4	<.06	<.04	E.4	.053	E.4	55	E.05	4.0	<.01	<.4	.48
SEP													
28...	E.09	9	<.06	.05	.93	--	--	28	.48	5.5	<.01	<.4	.62

Date	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Thall-ium, water, fltrd, ug/L (01057)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Cyanide water, fltrd, mg/L (00723)	Di-bromo-methane water unfltrd ug/L (30217)	Bromo-di-chloro-methane water unfltrd ug/L (32101)	Tetra-chloro-methane water unfltrd ug/L (32102)	1,2-Di-chloro-ethane, water, unfltrd ug/L (32103)	Tri-bromo-methane water unfltrd ug/L (32104)	Di-bromo-chloro-methane water unfltrd ug/L (32105)	Tri-chloro-methane water unfltrd ug/L (32106)
OCT													
08...	E.2	<.2	<.04	E.4	<.04	<.01	<.05	<.03	<.06	<.1	<.10	<.1	<.02
MAR													
24...	<.4	<.2	<.04	E.4	<.04	<.01	<.05	<.03	<.06	<.1	<.10	<.1	<.02
MAY													
27...	<.4	<.2	<.04	1.0	<.04	<.01	<.05	<.03	<.06	<.1	<.10	<.1	<.02
SEP													
28...	E.05	<.2	<.04	--	<.04	.01	<.05	<.03	<.06	<.1	<.10	<.1	<.02

Date	Toluene water unfltrd ug/L (34010)	Benzene water unfltrd ug/L (34030)	Acrylo-nitrile water unfltrd ug/L (34215)	Chloro-benzene water unfltrd ug/L (34301)	Chloro-ethane, water, unfltrd ug/L (34311)	Ethyl-benzene water unfltrd ug/L (34371)	Hexa-chloro-ethane, water, unfltrd ug/L (34396)	Bromo-methane water unfltrd ug/L (34413)	Chloro-methane water unfltrd ug/L (34418)	Di-chloro-methane water unfltrd ug/L (34423)	Tetra-chloro-ethene, water, unfltrd ug/L (34475)	Tri-chloro-fluoro-methane water unfltrd ug/L (34488)	1,1-Di-chloro-ethane, water unfltrd ug/L (34496)
OCT													
08...	<.02	<.02	<.8	<.03	<.1	<.03	<.1	<.3	<.2	<.1	<.03	<.08	<.04
MAR													
24...	<.02	<.02	<.8	<.03	<.1	<.03	<.1	<.3	<.2	<.1	<.03	<.08	<.04
MAY													
27...	E.04	<.02	<.8	<.03	<.1	<.03	<.1	<.3	<.2	<.1	<.03	.18	<.04
SEP													
28...	<.02	<.02	<.8	<.03	<.1	<.03	<.1	<.3	<.2	<.1	<.03	<.08	<.04

Date	1,1-Di-chloro-ethene, water, unfltrd ug/L (34501)	1,1,1-Tri-chloro-ethane, water, unfltrd ug/L (34506)	1,1,2-Tri-chloro-ethane, water, unfltrd ug/L (34511)	1,1,2,2-Tetra-chloro-ethane, water, unfltrd ug/L (34516)	1,2-Di-chloro-benzene water unfltrd ug/L (34536)	1,2-Di-chloro-propane water unfltrd ug/L (34541)	trans-1,2-Di-chloro-ethene, water, unfltrd ug/L (34546)	1,2,4-Tri-chloro-benzene water unfltrd ug/L (34551)	1,3-Di-chloro-benzene water unfltrd ug/L (34566)	1,4-Di-chloro-benzene water unfltrd ug/L (34571)	Di-chloro-di-fluoro-methane wat unf ug/L (34668)	Naphth-alene, water, unfltrd ug/L (34696)	trans-1,3-Di-chloro-propene water unfltrd ug/L (34699)
OCT													
08...	<.02	<.03	<.04	<.08	<.05	<.03	<.03	<.1	<.03	<.03	<.18	<.5	<.09
MAR													
24...	<.02	<.03	<.04	<.08	<.05	<.03	<.03	<.1	<.03	<.03	<.18	<.5	<.09
MAY													
27...	<.02	<.03	<.04	<.08	<.05	<.03	<.03	<.1	<.03	<.03	<.18	<.5	<.09
SEP													
28...	<.02	<.03	<.04	<.08	<.05	<.03	<.03	<.1	<.03	<.03	<.18	<.5	<.09

Date	cis-1,3-Di-chloro-propene water unfltrd ug/L (34704)	Vinyl chlor-ide, water, unfltrd ug/L (39175)	Tri-chloro-ethene, water, unfltrd ug/L (39180)	Hexa-chloro-buta-diene, water, unfltrd ug/L (39702)	cis-1,2-Di-chloro-ethene, water, unfltrd ug/L (77093)	Styrene water unfltrd ug/L (77128)	1,1-Di-chloro-propene water unfltrd ug/L (77168)	2,2-Di-chloro-propane water unfltrd ug/L (77170)	1,3-Di-chloro-propane water unfltrd ug/L (77173)	1,2,4-Tri-methyl-benzene water unfltrd ug/L (77222)	Iso-propyl-benzene water unfltrd ug/L (77223)	n-propyl-benzene water unfltrd ug/L (77224)	1,3,5-Tri-methyl-benzene water unfltrd ug/L (77226)
OCT													
08...	<.05	<.1	<.04	<.1	<.02	<.04	<.03	<.05	<.1	<.06	<.04	<.04	<.04
MAR													
24...	<.05	<.1	<.04	<.1	<.02	<.04	<.03	<.05	<.1	<.06	<.04	<.04	<.04
MAY													
27...	<.05	<.1	<.04	<.1	<.02	<.04	<.03	<.05	<.1	<.06	<.04	<.04	<.04
SEP													
28...	<.05	<.1	<.04	<.1	<.02	<.04	<.03	<.05	<.1	<.06	<.04	<.04	<.04

15304400 TAKIKCHAK RIVER NEAR NEWTOK—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	2-Chloro-toluene water unfltrd ug/L (77275)	4-Chloro-toluene water unfltrd ug/L (77277)	Bromo-chloro-methane water unfltrd ug/L (77297)	n-Butyl benzene water unfltrd ug/L (77342)	sec-Butyl-benzene water unfltrd ug/L (77350)	tert-Butyl-benzene water unfltrd ug/L (77353)	4-Iso-propyl-toluene water unfltrd ug/L (77356)	1,2,3-Tri-chloro-propane water unfltrd ug/L (77443)	1,1,1,2-Tetra-chloro-ethane, water, unfltrd ug/L (77562)	1,2,3-Tri-chloro-benzene water unfltrd ug/L (77613)	1,2-Di-bromo-ethane, water, unfltrd ug/L (77651)	CFC-113 water unfltrd ug/L (77652)	Methyl t-butyl ether, water, unfltrd ug/L (78032)
OCT													
08...	<.04	<.05	<.12	<.1	<.06	<.06	<.08	<.18	<.03	<.2	<.04	<.04	<.1
MAR													
24...	<.04	<.05	<.12	<.1	<.06	<.06	<.08	<.18	<.03	<.2	<.04	<.04	<.1
MAY													
27...	<.04	<.05	<.12	<.1	<.06	<.06	<.08	<.18	<.03	<.2	<.04	<.04	<.1
SEP													
28...	<.04	<.05	<.12	<.1	<.06	<.06	<.08	<.18	<.03	<.2	<.04	<.04	<.1

Date	Bromo-benzene water unfltrd ug/L (81555)	Dibromo chloro-propane water unfltrd ug/L (82625)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)
OCT				
08...	<.03	<.5	2	.11
MAR				
24...	<.03	<.5	2	.05
MAY				
27...	<.03	<.5	9	2.5
SEP				
28...	<.03	<.5	3	.45

15320100 WADE CREEK TRIBUTARY NEAR CHICKEN

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

DRAINAGE AREA.--4.24 mi^2.

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

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

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

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

EXTREMES FOR CURRENT PERIOD.--Maximum discharge 96 ft^3/s May 28, 2005, gage height, 21.80 ft; no flow most days during the winter.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	0.05	---	---	---	---	---	---	---	6.7	0.15	0.09	0.18
2	0.04	---	---	---	---	---	---	---	4.0	0.24	0.11	0.25
3	0.04	---	---	---	---	---	---	---	2.6	0.67	0.14	e0.24
4	0.04	---	---	---	---	---	---	---	1.6	0.59	0.14	e0.21
5	0.04	---	---	---	---	---	---	---	1.1	0.47	0.13	e0.19
6	0.04	---	---	---	---	---	---	---	0.85	0.41	0.15	e0.18
7	0.04	---	---	---	---	---	---	---	0.75	0.33	0.18	e0.17
8	0.03	---	---	---	---	---	---	---	0.67	0.27	0.18	0.24
9	0.02	---	---	---	---	---	---	---	0.59	0.24	0.16	0.26
10	e0.01	---	---	---	---	---	---	e1.6	0.42	0.23	0.15	0.30
11	---	---	---	---	---	---	---	1.2	0.35	0.22	0.14	0.35
12	---	---	---	---	---	---	---	0.90	2.5	0.20	0.14	0.35
13	---	---	---	---	---	---	---	0.80	9.7	0.19	0.13	1.1
14	---	---	---	---	---	---	---	0.73	3.0	0.17	0.12	1.4
15	---	---	---	---	---	---	---	0.61	1.1	0.15	e0.11	1.1
16	---	---	---	---	---	---	---	0.43	0.64	0.14	e0.10	0.96
17	---	---	---	---	---	---	---	6.9	0.47	0.15	e0.11	0.93
18	---	---	---	---	---	---	---	10	0.41	0.17	0.12	1.3
19	---	---	---	---	---	---	---	4.5	0.35	0.16	0.12	1.3
20	---	---	---	---	---	---	---	2.3	0.36	0.14	0.13	1.2
21	---	---	---	---	---	---	---	3.4	0.31	0.12	0.14	1.2
22	---	---	---	---	---	---	---	5.6	0.27	0.11	0.14	1.2
23	---	---	---	---	---	---	---	4.8	0.27	0.11	0.14	1.2
24	---	---	---	---	---	---	---	3.4	0.25	0.11	e0.12	1.2
25	---	---	---	---	---	---	---	11	0.23	0.11	e0.12	1.2
26	---	---	---	---	---	---	---	16	0.20	0.10	e0.11	1.1
27	---	---	---	---	---	---	---	8.9	0.17	0.09	e0.11	1.0
28	---	---	---	---	---	---	---	46	0.16	0.08	e0.11	e0.95
29	---	---	---	---	---	---	---	12	0.16	0.08	e0.10	e0.90
30	---	---	---	---	---	---	---	6.0	0.15	0.09	e0.11	e0.80
31	---	---	---	---	---	---	---	5.3	---	0.08	0.15	---
TOTAL	---	---	---	---	---	---	---	---	40.33	6.37	4.00	22.96
MEAN	---	---	---	---	---	---	---	---	1.34	0.21	0.13	0.77
MAX	---	---	---	---	---	---	---	---	9.7	0.67	0.18	1.4
MIN	---	---	---	---	---	---	---	---	0.15	0.08	0.09	0.17
AC-FT	---	---	---	---	---	---	---	---	80	13	7.9	46
CFSM	---	---	---	---	---	---	---	---	0.32	0.05	0.03	0.18
IN.	---	---	---	---	---	---	---	---	0.35	0.06	0.04	0.20

e Estimated

15356000 YUKON RIVER AT EAGLE
(International Gaging Station)

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

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

WATER-DISCHARGE RECORDS

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	75300	e45000	e28000	e22000	e20000	e19000	e19000	e39000	280000	167000	160000	118000
2	75000	e44000	e28000	e22000	e20000	e19000	e19000	e44000	286000	166000	163000	120000
3	75200	e43000	e28000	e21000	e19000	e19000	e19000	e50000	283000	169000	167000	126000
4	75000	e42000	e27000	e21000	e19000	e19000	e19000	e57000	276000	185000	164000	129000
5	74500	e40000	e27000	e21000	e19000	e19000	e19000	e63000	268000	210000	160000	127000
6	74000	e38000	e27000	e21000	e19000	e19000	e19000	e72000	257000	221000	158000	123000
7	74300	e36000	e27000	e21000	e19000	e19000	e19000	e85000	251000	213000	154000	120000
8	76400	e34000	e26000	e21000	e19000	e19000	e19000	e100000	250000	206000	153000	117000
9	77300	e33000	e26000	e21000	e19000	e19000	e19000	e115000	248000	202000	152000	114000
10	77000	e33000	e26000	e21000	e19000	e19000	e19000	e130000	238000	198000	151000	112000
11	76300	e34000	e25000	e21000	e19000	e19000	e19000	144000	232000	194000	150000	111000
12	75000	e36000	e25000	e21000	e19000	e19000	e19000	151000	232000	182000	149000	111000
13	74200	e37000	e25000	e20000	e19000	e19000	e19000	159000	231000	173000	147000	111000
14	73900	e37000	e24000	e20000	e19000	e19000	e19000	171000	232000	170000	146000	115000
15	73300	e37000	e24000	e20000	e19000	e19000	e19000	185000	232000	166000	146000	120000
16	72600	e36000	e24000	e20000	e19000	e19000	e19000	198000	231000	162000	147000	122000
17	71400	e35000	e24000	e20000	e19000	e19000	e19000	211000	227000	159000	146000	124000
18	70100	e35000	e23000	e20000	e19000	e19000	e19000	230000	220000	156000	143000	125000
19	68400	e35000	e23000	e20000	e19000	e19000	e19000	259000	212000	160000	140000	125000
20	64000	e34000	e23000	e20000	e19000	e19000	e19000	264000	204000	168000	137000	126000
21	e61000	e33000	e23000	e20000	e19000	e19000	e19000	269000	206000	174000	131000	126000
22	e59000	e33000	e23000	e20000	e19000	e19000	e20000	274000	223000	176000	128000	125000
23	e57000	e32000	e23000	e20000	e19000	e19000	e20000	287000	219000	174000	121000	123000
24	e55000	e32000	e23000	e20000	e19000	e19000	e21000	298000	199000	166000	119000	123000
25	e53000	e31000	e22000	e20000	e19000	e19000	e22000	300000	186000	157000	122000	124000
26	e51000	e31000	e22000	e20000	e19000	e19000	e23000	297000	178000	152000	123000	125000
27	e50000	e30000	e22000	e20000	e19000	e19000	e25000	293000	172000	149000	129000	125000
28	e49000	e30000	e22000	e20000	e19000	e19000	e28000	291000	168000	147000	130000	123000
29	e48000	e29000	e22000	e20000	---	e19000	e32000	308000	169000	145000	127000	121000
30	e47000	e29000	e22000	e20000	---	e19000	e35000	287000	169000	147000	123000	121000
31	e46000	---	e22000	e20000	---	e19000	---	277000	---	152000	119000	---
TOTAL	2049200	1054000	756000	634000	534000	589000	625000	5908000	6779000	5366000	4405000	3632000
MEAN	66100	35130	24390	20450	19070	19000	20830	190600	226000	173100	142100	121100
MAX	77300	45000	28000	22000	20000	19000	35000	308000	286000	221000	167000	129000
MIN	46000	29000	22000	20000	19000	19000	19000	39000	168000	145000	119000	111000
AC-FT	4065000	2091000	1500000	1258000	1059000	1168000	1240000	11720000	13450000	10640000	8737000	7204000
CFSM	0.58	0.31	0.21	0.18	0.17	0.17	0.18	1.68	1.99	1.53	1.25	1.07
IN.	0.67	0.35	0.25	0.21	0.18	0.19	0.20	1.94	2.22	1.76	1.44	1.19

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1950 - 2005, BY WATER YEAR (WY)#

MEAN	74530	38360	25800	21130	18880	17320	19340	126200	223100	181000	143700	112200
MAX	133300	62500	38870	30390	28000	25480	41530	201500	456800	269500	200400	187900
(WY)	2001	1953	2001	2001	1977	1977	1990	1993	1964	1992	2000	2000
MIN	45870	24000	13000	9000	7200	7800	8650	61770	120900	108900	88710	70690
(WY)	1959	1959	1951	1951	1951	1956	1956	1964	1953	1998	1998	1998

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

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

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1950 - 2005#	
ANNUAL TOTAL	28507700		32331200			
ANNUAL MEAN	77890		88580		84050	
HIGHEST ANNUAL MEAN					110900	1964
LOWEST ANNUAL MEAN					61020	1958
HIGHEST DAILY MEAN	282000	Jun 12	308000	May 29	545000	Jun 12 1964
LOWEST DAILY MEAN	a19000	Mar 21	b19000	Feb 3	c7200	Feb 1 1951
ANNUAL SEVEN-DAY MINIMUM	19000	Mar 21	19000	Feb 3	7200	Feb 1 1951
MAXIMUM PEAK FLOW			314000	May 29	545000	Jun 12 1964
MAXIMUM PEAK STAGE			24.70	May 29	33.85	Jun 12 1964
ANNUAL RUNOFF (AC-FT)	56550000		64130000		60890000	
ANNUAL RUNOFF (CFSM)	0.686		0.780		0.740	
ANNUAL RUNOFF (INCHES)	9.34		10.60		10.06	
10 PERCENT EXCEEDS	194000		212000		197000	
50 PERCENT EXCEEDS	44500		45000		45000	
90 PERCENT EXCEEDS	19500		19000		16500	

\# See Period of Record; partial years used in monthly statistics and break in record
a From Mar. 21 to Apr. 23
b From Feb. 3 to Apr. 21
c Feb. 1 to 28, 1951

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

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1950-57, 1962-70, 1974-76, 1978-79 and 2001 to August 2005 (discontinued).

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Location in X-sect. looking dwnstrm ft from l bank (00009)	Sample location, cross section ft from rt bank (72103)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
APR									
07...	1800	130	--	256	7.6	.0	734	10.8	77
07...	1802	270	--	256	7.6	.0	734	10.8	77
07...	1804	410	--	256	7.6	.0	734	10.8	77
07...	1806	550	--	256	7.6	.0	734	10.8	77
07...	1808	730	--	259	7.6	.0	734	10.8	77
MAY									
11...	1050	--	450.0	174	7.9	8.0	747	11.0	95
11...	1052	--	650.0	173	7.9	8.1	747	11.0	95
11...	1054	--	800.0	171	7.9	8.1	747	11.0	95
11...	1056	--	950.0	171	7.9	8.1	747	11.6	100
11...	1058	--	1150	171	7.9	8.1	747	11.2	97
24...	1220	--	450.0	177	7.8	9.1	752	10.7	94
24...	1222	--	650.0	178	7.9	9.3	752	10.6	94
24...	1224	--	800.0	179	7.9	9.3	752	10.6	94
24...	1226	--	950.0	179	8.0	9.3	752	10.6	94
24...	1228	--	1150	180	8.0	9.3	752	10.6	94
JUN									
14...	1240	--	368.0	214	--	14.4	736	96.0	974
14...	1242	--	576.0	213	7.9	14.5	737	--	--
14...	1244	--	716.0	212	7.9	14.3	736	9.5	96
14...	1246	--	903.0	212	--	14.4	736	9.5	96
14...	1248	--	1125	212	7.9	14.4	736	9.4	95
JUL									
07...	1120	--	450.0	200	8.0	14.6	--	10.6	--
07...	1122	--	650.0	197	8.0	14.7	--	9.8	--
07...	1124	--	800.0	197	8.0	14.7	--	9.8	--
07...	1126	--	950.0	196	8.0	14.7	--	9.8	--
07...	1128	--	1180	196	8.0	14.6	--	9.8	--
AUG									
04...	1100	--	374.0	220	8.1	13.3	736	9.8	97
04...	1102	--	600.0	216	8.1	13.4	736	9.8	97
04...	1104	--	775.0	215	8.1	13.4	736	9.8	97
04...	1106	--	955.0	214	8.1	13.4	736	9.8	97
04...	1108	--	1080	214	8.1	13.4	736	9.8	97
30...	1120	--	403.0	237	8.2	11.5	735	9.8	93
30...	1122	--	554.0	236	8.2	11.4	735	9.7	92
30...	1124	--	700.0	236	8.2	11.4	735	9.7	92
30...	1126	--	850.0	236	8.2	11.4	735	9.7	92
30...	1128	--	1030	236	8.2	11.4	735	9.6	91

Date	Time	Medium code	Sample type	Ice thick-ness, feet (82130)	Stream width, feet (00004)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Type of blank solu-tion, code (99100)	Type of blank sample, code (99102)	Type of repli-cate, code (99105)
APR													
07...	1740	9	9	4.00	--	--	19200	20	3061	10	--	150	--
MAY													
11...	1030	9	9	--	--	15.80	142000	20	3055	110	--	--	--
24...	1200	9	9	--	1600	--	300000	--	--	30	--	--	10
JUN													
14...	1220	9	9	--	1520	--	240000	20	3055	110	--	--	--
JUL													
07...	1100	9	9	--	1500	--	220000	20	3055	110	--	--	--
AUG													
04...	1040	9	9	--	--	--	163000	20	3055	110	--	--	--
30...	1100	9	9	--	1450	14.24	127000	20	3055	10	200	150	--

15356000 YUKON RIVER AT EAGLE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)
APR													
07...	256	7.6	1.5	.0	2	.0322	.0227	735	10.8	77	130	35.6	9.42
MAY													
11...	172	7.9	--	8.1	77	.4630	.3472	747	11.2	97	88	24.0	6.85
24...	179	7.9	--	9.3	177	.2507	.1882	--	10.6	--	88	23.7	7.02
JUN													
14...	213	7.9	18.0	14.5	105	.0977	.0712	736	9.5	97	100	28.3	8.21
JUL													
07...	197	8.0	--	14.7	386	.2329	.1730	--	9.8	--	100	28.3	7.66
AUG													
04...	216	8.1	--	13.4	144	.1930	.1416	736	9.7	96	110	29.9	7.70
30...	236	8.2	--	11.5	239	.0896	.0651	735	9.7	92	110	31.8	8.48

Date	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon-ate, wat flt incrm. titr., field, mg/L (00452)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)
APR													
07...	2.97	1.16	117	.0	96	31.9	.54	.12	7.06	146	147	E.001	.081
MAY													
11...	1.95	1.19	78	.0	60	25.1	.49	E.08	5.49	136	104	.002	.056
24...	1.75	.96	73	.0	60	25.9	.27	E.09	5.90	126	102	<.002	.046
JUN													
14...	1.85	.81	84	.0	69	33.7	.26	.11	6.18	119	121	<.002	.039
JUL													
07...	2.41	1.43	80	.0	66	30.5	.54	.12	6.97	138	118	E.001	.075
AUG													
04...	2.88	1.30	90	.0	74	32.9	.41	.12	7.23	142	127	E.001	.050
30...	2.81	1.49	98	.0	80	37.8	.48	.12	6.34	154	138	E.001	.032

Date	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Alum-inum, water, fltrd, ug/L (01106)	Anti-mony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryll-ium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)
APR													
07...	E.006	E.05	E.06	.004	<.004	<.006	E1.5	E.1	.4	51.5	<.06	E6	E.04
MAY													
11...	<.010	.6	.4	.46	.009	<.006	40.1	E.1	.5	41.1	<.06	E5	.05
24...	<.010	.7	.3	.80	E.003	<.006	39.5	E.2	.6	38.2	<.06	E5	E.03
JUN													
14...	<.010	.2	E.10	.31	<.004	<.006	26.4	E.2	.5	40.6	<.06	<8	<.04
JUL													
07...	E.005	.7	.2	.90	.004	<.006	27.6	E.2	.7	35.9	<.06	10	<.04
AUG													
04...	<.010	.4	.2	.40	E.003	<.006	28.6	E.2	.6	37.5	<.06	14	<.04
30...	<.010	.2	.1	.34	E.003	<.006	23.5	.2	.6	35.9	<.06	13	<.04

E Estimated

15356000 YUKON RIVER AT EAGLE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)
APR													
07...	<.8	.089	1.1	E4	<.08	1.9	1.2	1.3	1.86	.5	<.20	179	.42
MAY													
11...	<.8	.139	3.1	104	E.08	1.7	13.9	.7	2.79	.5	<.20	121	.55
24...	<.8	.204	2.7	60	E.06	2.2	7.2	.8	3.42	.6	<.20	118	.47
JUN													
14...	<.8	.068	1.9	17	.18	2.8	2.2	.9	2.37	.6	<.20	129	.38
JUL													
07...	<.8	.096	2.9	28	<.08	2.7	2.0	1.2	2.47	.5	<.20	132	.77
AUG													
04...	<.8	.119	2.2	23	<.08	2.4	3.6	1.2	1.80	.4	<.20	146	.60
30...	.1	.089	4.3	13	E.05	3.1	1.6	1.5	2.37	.6	<.20	155	.51

Date	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Organic carbon, water, fltrd, mg/L (00681)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Total carbon, suspnd sedimnt total, mg/L (00694)	Particulate nitrogen, susp, water, mg/L (49570)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)
APR										
07...	1.5	1.08	1.3	<.12	.163	.163	<.022	27	1400	23
MAY										
11...	4.8	.75	12	.641	2.66	3.30	.230	424	163000	49
24...	1.0	.63	6.7	.849	5.08	5.93	.319	933	756000	60
JUN										
14...	.7	.69	3.2	.550	1.95	2.50	.074	311	202000	57
JUL										
07...	.9	.78	6.8	6.87	6.54	13.4	.324	1240	736000	83
AUG										
04...	E.4	.81	5.4	1.40	3.38	4.78	.220	378	166000	69
30...	1.2	.86	3.3	1.58	2.05	3.63	.086	400	137000	75

E Estimated

15388960 PORCUPINE RIVER NEAR INTERNATIONAL BOUNDARY
(International Gaging Station)

LOCATION.--Lat 67°25′2″, long 140°53′28″, 3.1 mi upstream from old townsite of Ramparts House, at Alaska-Yukon Territory Boundary.

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

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3050	e1820	e1320	e964	e727	e583	e487	e5830	54500	4560	3900	6190
2	2800	e1800	e1310	e946	e724	e576	e491	e7240	52400	4450	4070	6070
3	2910	e1780	e1300	e939	e720	e572	e491	e10400	46600	4280	5160	5680
4	2740	e1760	e1290	e929	e713	e569	e494	e26300	42700	4160	8040	5400
5	3210	e1740	e1280	e918	e706	e558	e494	e36200	42900	4370	9120	5240
6	3740	e1720	e1270	e904	e699	e551	e494	e44100	40300	4780	8690	5140
7	3320	e1710	e1250	e886	e689	e547	e498	e55600	37400	5110	8200	5220
8	3250	e1690	e1240	e876	e678	e540	e501	e71500	34400	5550	7640	5610
9	3240	e1660	e1230	e865	e674	e530	e505	e97100	30800	5890	7180	6140
10	3050	e1630	e1210	e862	e671	e523	e508	e126000	27200	8060	6690	6690
11	2510	e1610	e1200	e855	e667	e519	e512	100000	24700	10200	6370	7400
12	2480	e1590	e1190	e851	e660	e516	e519	85000	23100	13000	6130	7860
13	2810	e1580	e1170	e844	e657	e512	e526	73900	22000	16300	6030	8540
14	2140	e1560	e1160	e840	e650	e508	e530	69100	20200	19500	5920	9140
15	e1950	e1550	e1150	e837	e646	e505	e537	67300	17200	20900	5740	9940
16	e1720	e1540	e1140	e830	e643	e501	e544	75700	14400	18800	5530	11100
17	e1620	e1530	e1130	e823	e639	e501	e569	88300	12000	15600	5240	12300
18	e1560	e1530	e1130	e816	e632	e498	e593	88400	10500	13200	4900	13600
19	e1530	e1520	e1120	e812	e625	e498	e643	77900	9410	11300	5090	13900
20	e1520	e1500	e1110	e805	e621	e494	e699	64200	8920	10100	4940	13500
21	e1540	e1490	e1100	e798	e618	e494	e770	53700	9360	8850	4870	13200
22	e1590	e1480	e1090	e794	e614	e491	e855	51500	9070	7960	4830	13300
23	e1640	e1470	e1080	e787	e611	e491	e982	48800	8040	7250	4770	13900
24	e1740	e1450	e1070	e777	e604	e491	e1160	48200	6990	6320	4860	14200
25	e1800	e1430	e1060	e766	e597	e487	e1390	45800	6410	5810	4950	15400
26	e1840	e1410	e1050	e756	e593	e487	e1640	40800	5990	5420	4910	19000
27	e1870	e1390	e1030	e745	e590	e487	e2080	40400	5700	5290	4960	22600
28	e1870	e1370	e1020	e742	e586	e487	e2750	44700	5350	4840	5040	25900
29	e1870	e1360	e999	e738	---	e487	e3880	47400	5010	4500	5170	26500
30	e1860	e1340	e985	e731	---	e487	e4770	47800	4690	4090	5480	24300
31	e1840	---	e975	e731	---	e487	---	50200	---	3910	5960	---
TOTAL	70610	47010	35659	25767	18254	15977	30912	1789370	638240	264350	180380	352960
MEAN	2278	1567	1150	831	652	515	1030	57720	21270	8527	5819	11770
MAX	3740	1820	1320	964	727	583	4770	126000	54500	20900	9120	26500
MIN	1520	1340	975	731	586	487	487	5830	4690	3910	3900	5140
AC-FT	140100	93240	70730	51110	36210	31690	61310	3549000	1266000	524300	357800	700100
CFSM	0.10	0.07	0.05	0.04	0.03	0.02	0.04	2.50	0.92	0.37	0.25	0.51
IN.	0.11	0.08	0.06	0.04	0.03	0.03	0.05	2.88	1.03	0.43	0.29	0.57

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

MEAN	4530	1878	1145	843	695	649	781	35120	40850	14750	18490	15760
MAX	8241	3161	1638	1176	966	870	1711	63160	86470	29580	37940	34320
(WY)	1996	1999	2004	2004	2001	2001	1998	1990	1992	1994	1991	1995
MIN	2278	1122	870	551	398	383	562	1369	20410	4187	5819	3932
(WY)	2005	1997	2000	1997	1997	1997	1997	2001	1999	2004	2005	2004

e Estimated

15388960 PORCUPINE RIVER NEAR INTERNATIONAL BOUNDARY—Continued
(International Gaging Station)

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005	
ANNUAL TOTAL	3100036		3469489			
ANNUAL MEAN	8470		9505		11330	
HIGHEST ANNUAL MEAN					16090	1995
LOWEST ANNUAL MEAN					6569	1999
HIGHEST DAILY MEAN	194000	May 20	126000	May 10	248000	Jun 1 1992
LOWEST DAILY MEAN	763	Apr 11	a487	Mar 25	b367	Mar 3 1997
ANNUAL SEVEN-DAY MINIMUM	766	Apr 7	487	Mar 25	369	Mar 1 1997
MAXIMUM PEAK FLOW			c	May 10	250000	Jun 1 1992
MAXIMUM PEAK STAGE					50.76	Jun 1 1992
ANNUAL RUNOFF (AC-FT)	6149000		6882000		8209000	
ANNUAL RUNOFF (CFSM)	0.367		0.411		0.491	
ANNUAL RUNOFF (INCHES)	4.99		5.59		6.66	
10 PERCENT EXCEEDS	13000		28600		32900	
50 PERCENT EXCEEDS	1590		1760		1990	
90 PERCENT EXCEEDS	801		530		639	

a From Mar. 25 to Apr. 1
b From Mar. 3 to 6
c Not determined see highest daily mean

15392000 BIRCH CREEK ABOVE TWELVEMILE CREEK NEAR MILLER HOUSE

LOCATION.--Lat 65°23'33", Long 145°42'45", in NW$^1/_4$, SW$^1/_4$, NW$^1/_4$ sec.33, T. 7 N., R. 10 E., Fairbanks Meridian (Circle B-4 quad), Yukon-Koyukuk Borough, Hydrologic Unit 19040402, on right bank one quarter mile upstream of the Bureau of Land Management Twelvemile wayside parking lot at mile 93.9 of the Steese Highway.

DRAINAGE AREA.--89.2 mi^2.

WATER-DISCHARGE RECORDS

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

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

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

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

EXTREMES FOR WATER YEAR 2005.--Maximum discharge, 1,180 ft^3/s, May 30, gage height, 46.27 ft, minimum not determined occurs during winter.

DISCHARGE, CUBIC FEET PER SECOND,WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	e200	1030	e574	54	51
2	---	---	---	---	---	---	---	e300	609	e350	53	51
3	---	---	---	---	---	---	---	e400	380	e250	50	50
4	---	---	---	---	---	---	---	e500	249	e200	48	49
5	---	---	---	---	---	---	---	e600	184	e165	50	48
6	---	---	---	---	---	---	---	e650	140	126	51	48
7	---	---	---	---	---	---	---	e700	112	194	49	50
8	---	---	---	---	---	---	---	e700	93	255	47	54
9	---	---	---	---	---	---	---	e650	80	178	46	56
10	---	---	---	---	---	---	---	555	71	290	44	58
11	---	---	---	---	---	---	---	456	66	269	43	58
12	---	---	---	---	---	---	---	416	93	225	42	59
13	---	---	---	---	---	---	---	421	137	183	41	67
14	---	---	---	---	---	---	---	415	100	152	40	72
15	---	---	---	---	---	---	---	455	80	122	40	73
16	---	---	---	---	---	---	---	542	73	118	39	72
17	---	---	---	---	---	---	---	435	71	170	40	69
18	---	---	---	---	---	---	---	561	61	300	39	67
19	---	---	---	---	---	---	---	384	56	230	39	63
20	---	---	---	---	---	---	---	294	54	175	39	61
21	---	---	---	---	---	---	---	217	49	146	39	62
22	---	---	---	---	---	---	---	172	45	126	38	71
23	---	---	---	---	---	---	---	145	41	109	38	96
24	---	---	---	---	---	---	---	134	37	95	41	210
25	---	---	---	---	---	---	---	136	35	85	44	281
26	---	---	---	---	---	---	---	139	32	76	43	268
27	---	---	---	---	---	---	---	174	29	69	44	236
28	---	---	---	---	---	---	---	358	27	63	46	197
29	---	---	---	---	---	---	---	310	e40	60	47	160
30	---	---	---	---	---	---	---	531	e130	59	46	137
31	---	---	---	---	---	---	---	728	---	56	49	---
TOTAL	---	---	---	---	---	---	---	12678	4204	5470	1369	2894
MEAN	---	---	---	---	---	---	---	409	140	176	44.2	96.5
MAX	---	---	---	---	---	---	---	728	1030	574	54	281
MIN	---	---	---	---	---	---	---	134	27	56	38	48
MED	---	---	---	---	---	---	---	416	72	165	44	65
AC-FT	---	---	---	---	---	---	---	25150	8340	10850	2720	5740
CFSM	---	---	---	---	---	---	---	4.58	1.57	1.98	0.50	1.08
IN.	---	---	---	---	---	---	---	5.29	1.75	2.28	0.57	1.21

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)

MEAN	---	---	---	---	---	---	---	291	125	128	78.3	121
MAX	---	---	---	---	---	---	---	409	178	176	145	260
(WY)	---	---	---	---	---	---	---	2005	2002	2005	2002	2003
MIN	---	---	---	---	---	---	---	173	79.4	38.2	41.5	17.7
(WY)	---	---	---	---	---	---	---	2003	2004	2004	2004	2004

e Estimated

15392000 BIRCH CREEK ABOVE TWELVEMILE CREEK NEAR MILLER HOUSE—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2003 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Stream width feet (00004)	Sample location, cross section ft from rt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)
JUN													
01...	1208	9	9	--	1.5	45.66	E1000	70	3044	52	7.3	6.9	3.4
13...	1240	9	9	52.5	--	43.00	142	10	3044	--	--	23.6	12.5
27...	1810	9	9	36.0	--	42.27	28	10	3044	194	7.6	23.8	12.2
SEP													
12...	1730	9	9	--	--	--	59	10	3044	--	--	--	--

Date	Dissolved oxygen, mg/L (00300)	Hardness, water. mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Flouride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water mg/L as N (00631)
JUN													
01...	11.7	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	9.8	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
12...	--	96	24.9	8.21	.89	.69	28.2	E.11	E.1	5.10	115	<.002	.110

Date	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recoverable, ug/L (71900)	Mercury water, fltrd, ug/L (71890)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
JUN												
01...	--	--	--	--	--	--	--	--	--	--	E785	--
13...	--	--	--	--	--	--	--	--	--	--	17	6.5
27...	--	--	--	--	--	--	--	--	--	--	2	.15
SEP												
12...	<.010	.11	.19	.009	.010	<.006	19	11.0	<.01	<.01	--	--

E Estimated

15453500 YUKON RIVER NEAR STEVENS VILLAGE

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

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

WATER-DISCHARGE RECORDS

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	85200	e55000	e38000	e29000	e26000	e24000	e22000	e64000	387000	e203000	172000	154000
2	84600	e54000	e37000	e29000	e26000	e24000	e22000	e72000	396000	197000	170000	154000
3	84200	e52000	e37000	e29000	e26000	e24000	e22000	e84000	399000	195000	169000	151000
4	83800	e51000	e36000	e29000	e25000	e24000	e22000	e100000	406000	194000	172000	150000
5	83500	e50000	e36000	e28000	e25000	e24000	e22000	e126000	411000	192000	176000	150000
6	83400	e48000	e36000	e28000	e25000	e23000	e22000	e158000	408000	193000	180000	153000
7	83300	e46000	e35000	e28000	e25000	e23000	e22000	e190000	397000	198000	183000	159000
8	83400	e44000	e35000	e28000	e25000	e23000	e22000	e220000	382000	212000	183000	164000
9	83300	e43000	e35000	e28000	e25000	e23000	e22000	e248000	366000	230000	182000	166000
10	83100	e43000	e34000	e28000	e25000	e23000	e22000	e276000	352000	239000	181000	167000
11	83100	e45000	e34000	e28000	e25000	e23000	e22000	299000	339000	239000	179000	165000
12	83700	e46000	e34000	e28000	e25000	e23000	e22000	326000	331000	235000	177000	162000
13	84100	e47000	e33000	e27000	e25000	e23000	e22000	368000	320000	230000	175000	159000
14	83500	e48000	e33000	e27000	e25000	e23000	e22000	391000	310000	227000	174000	157000
15	82600	e48000	e33000	e27000	e25000	e23000	e22000	397000	300000	225000	172000	156000
16	81900	e47000	e32000	e27000	e25000	e23000	e22000	397000	299000	221000	170000	157000
17	81300	e46000	e32000	e27000	e25000	e22000	e22000	399000	302000	217000	169000	157000
18	80800	e45000	e32000	e27000	e24000	e22000	e22000	407000	302000	215000	167000	160000
19	80200	e44000	e32000	e27000	e24000	e22000	e22000	425000	302000	214000	166000	164000
20	e78000	e43000	e31000	e27000	e24000	e22000	e22000	449000	299000	211000	166000	167000
21	e76000	e43000	e31000	e26000	e24000	e22000	e22000	471000	293000	206000	165000	169000
22	e75000	e42000	e31000	e26000	e24000	e22000	e23000	486000	284000	202000	163000	171000
23	e73000	e41000	e31000	e26000	e24000	e22000	e25000	482000	274000	202000	161000	173000
24	e71000	e40000	e30000	e26000	e24000	e22000	e28000	458000	265000	207000	159000	176000
25	e69000	e40000	e30000	e26000	e24000	e22000	e31000	428000	262000	210000	155000	182000
26	e67000	e39000	e30000	e26000	e24000	e22000	e35000	409000	267000	210000	151000	184000
27	e65000	e39000	e30000	e26000	e24000	e22000	e41000	401000	264000	206000	147000	185000
28	e62000	e39000	e30000	e26000	e24000	e22000	e48000	396000	253000	199000	145000	186000
29	e60000	e38000	e29000	e26000	---	e22000	e55000	389000	e235000	191000	144000	190000
30	e58000	e38000	e29000	e26000	---	e22000	e60000	382000	e216000	183000	146000	197000
31	e56000	---	e29000	e26000	---	e22000	---	378000	---	177000	151000	---
TOTAL	2389000	1344000	1015000	842000	692000	703000	808000	10076000	9621000	6480000	5170000	4985000
MEAN	77060	44800	32740	27160	24710	22680	26930	325000	320700	209000	166800	166200
MAX	85200	55000	38000	29000	26000	24000	60000	486000	411000	239000	183000	197000
MIN	56000	38000	29000	26000	24000	22000	22000	64000	216000	177000	144000	150000
AC-FT	4739000	2666000	2013000	1670000	1373000	1394000	1603000	19990000	19080000	12850000	10250000	9888000
CFSM	0.39	0.23	0.17	0.14	0.13	0.12	0.14	1.66	1.63	1.06	0.85	0.85
IN.	0.45	0.25	0.19	0.16	0.13	0.13	0.15	1.91	1.82	1.23	0.98	0.94

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2005, BY WATER YEAR (WY)

MEAN	99070	51440	36580	29850	25500	22540	22390	212000	335000	228300	196700	163200
MAX	164500	70300	48450	37680	32140	28970	28170	373000	614100	320200	255100	229500
(WY)	2001	2003	1983	1977	1981	1981	1981	1991	1992	1992	2000	2000
MIN	75340	34530	26770	23550	19320	16000	14800	90680	226800	168600	142400	97800
(WY)	1993	1990	1990	1996	1999	1999	1997	1992	1995	2004	1989	2004

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1977 - 2005	
ANNUAL TOTAL	38472100		44125000			
ANNUAL MEAN	105100		120900		119000	
HIGHEST ANNUAL MEAN					144400	1992
LOWEST ANNUAL MEAN					93910	1996
HIGHEST DAILY MEAN	466000	May 26	486000	May 22	823000	Jun 11 1992
LOWEST DAILY MEAN	a21000	Mar 17	b22000	Mar 17	c14000	Apr 14 1997
ANNUAL SEVEN-DAY MINIMUM	21000	Mar 17	22000	Mar 17	14000	Apr 14 1997
MAXIMUM PEAK FLOW			489000	May 22	827000	Jun 11 1992
MAXIMUM PEAK STAGE			47.58	May 22	59.60	Jun 11 1992
ANNUAL RUNOFF (AC-FT)	76310000		87520000		86210000	
ANNUAL RUNOFF (CFSM)	0.535		0.616		0.606	
ANNUAL RUNOFF (INCHES)	7.29		8.36		8.24	
10 PERCENT EXCEEDS	274000		302000		277000	
50 PERCENT EXCEEDS	50000		60000		58000	

a From Mar. 17 to Apr. 27
b From Mar. 17 to Apr. 21
c From Apr. 14 to Apr. 25
e Estimated

15453500 YUKON RIVER NEAR STEVENS VILLAGE—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-72, 1978, and 2001 to August 2005 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sample location, cross section ft from rt bank (72103)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
MAR								
30...	1750	225.0	277	--	.1	757	8.6	59
30...	1752	380.0	273	--	.1	757	8.6	59
30...	1754	600.0	274	--	.1	757	8.7	60
30...	1756	850.0	--	--	.1	757	8.6	--
30...	1758	1275	274	--	.1	757	8.6	59
MAY								
13...	1135	375.0	171	8.0	5.9	756	11.4	92
13...	1137	700.0	171	8.0	5.8	756	12.6	101
13...	1139	1050	171	8.0	5.8	756	12.6	101
13...	1141	1400	171	8.0	5.7	756	11.5	92
13...	1143	1750	170	8.0	5.8	756	11.5	93
23...	1620	318.0	155	8.4	9.7	--	10.7	--
23...	1622	744.0	155	8.3	9.6	--	9.7	--
23...	1624	1150	155	8.4	9.6	--	9.7	--
23...	1626	1520	152	8.5	9.6	--	9.7	--
23...	1628	1873	155	8.5	9.6	--	9.7	--
JUN								
02...	1720	312.0	188	7.9	12.8	767	10.0	94
02...	1722	770.0	189	8.0	12.8	767	9.7	91
02...	1724	1125	189	8.0	12.7	767	9.5	89
02...	1726	1500	189	8.0	12.6	767	9.5	89
02...	1728	1890	189	8.0	12.6	767	9.6	89
JUL								
06...	1750	223.0	228	7.9	17.3	750	10.4	110
06...	1752	569.0	228	8.0	17.2	750	10.3	109
06...	1754	872.0	228	8.0	17.2	750	10.4	110
06...	1756	1176	226	8.0	17.2	750	10.4	110
06...	1758	1538	228	8.0	17.2	750	10.3	109
AUG								
01...	1620	200.0	242	8.1	15.1	762	9.8	97
01...	1622	570.0	240	8.1	15.0	762	9.8	97
01...	1624	885.0	240	8.1	14.9	762	9.9	98
01...	1626	1180	238	8.1	14.9	762	9.8	97
01...	1628	1530	242	8.1	14.9	762	9.8	97
22...	1740	240.0	247	7.9	13.4	--	11.6	--
22...	1742	604.0	247	7.9	13.4	--	11.6	--
22...	1744	892.0	247	7.9	13.4	--	11.6	--
22...	1746	1200	247	7.9	13.4	--	11.6	--
22...	1748	1502	247	7.9	13.4	--	11.6	--

Date	Time	Medium code	Sample type	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Type of blank sample, code (99102)	Type of repli-cate, code (99105)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)
MAR													
30...	1730	9	9	--	22000	20	3039	110	--	--	274	--	-7.8
MAY													
13...	1115	9	9	--	402000	20	3055	110	--	--	171	8.0	--
23...	1600	9	9	47.38	466000	20	3055	10	100	--	155	8.4	--
JUN													
02...	1700	9	9	--	398000	20	3055	30	--	10	189	8.0	--
JUL													
06...	1730	9	9	32.08	188000	20	3055	110	--	--	228	8.0	--
AUG													
01...	1600	9	9	30.60	173000	20	3055	110	--	--	240	8.1	--
22...	1720	9	9	29.90	163000	20	3055	110	--	--	247	7.9	--

Date	Temper-ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)
MAR													
30...	.0	--	.0353	.0248	757	8.6	59	150	43.0	10.5	2.93	1.20	133
MAY													
13...	5.8	268	.6188	.4631	756	11.9	96	86	25.1	5.63	1.96	1.52	72
23...	9.6	235	.4134	.3108	--	9.9	--	80	23.3	5.25	1.70	1.12	70
JUN													
02...	12.7	156	.2852	.2129	767	9.7	91	36	10.4	2.49	.80	.40	84
JUL													
06...	17.2	223	.1086	.0802	750	10.4	110	120	33.3	8.64	2.60	1.44	91
AUG													
01...	14.9	135	.3118	.2445	762	9.8	97	120	32.5	8.59	2.83	1.23	103
22...	13.4	534	.0874	.0637	--	11.6	--	120	32.8	8.84	3.25	1.70	104

15453500 YUKON RIVER NEAR STEVENS VILLAGE—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
MAR													
30...	.0	109	33.0	.85	.13	7.60	173	165	.002	.097	E.006	.1	E.06
MAY													
13...	.0	55	20.5	1.22	E.07	4.14	140	96	.002	.066	.024	1.4	.6
23...	.0	58	20.1	.45	E.08	4.21	119	91	E.001	.053	<.010	.9	.3
JUN													
02...	.0	69	25.8	.38	E.08	2.09	131	84	E.001	.058	<.010	.6	.3
JUL													
06...	.0	75	33.8	.67	E.10	6.31	140	132	E.001	.044	.010	.3	.1
AUG													
01...	.0	85	37.0	.59	.14	6.42	152	140	E.001	.053	.013	.3	.2
22...	.0	86	34.8	.62	.12	6.14	142	140	.002	.038	.015	.4	.2

Date	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)
MAR													
30...	.022	<.004	<.006	E1.0	E.1	.4	57.5	<.06	12	<.04	<.8	.079	.7
MAY													
13...	.62	.015	<.006	28.7	E.1	.7	45.4	<.06	E6	E.02	<.8	.329	5.7
23...	.55	.008	<.006	33.2	<.2	.7	38.0	<.06	13	<.04	<.8	.198	4.8
JUN													
02...	.47	E.004	<.006	11.4	<.2	.2	17.3	<.06	E5	E.03	<.8	.076	5.1
JUL													
06...	.43	E.003	<.006	24.1	E.2	.7	50.3	<.06	10	<.04	<.8	.080	1.8
AUG													
01...	.28	E.002	<.006	19.9	E.2	.7	41.9	<.06	12	<.04	<.8	.097	2.1
22...	.52	E.003	<.006	17.4	.3	.7	48.3	<.06	14	<.04	<.8	.105	2.9

Date	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Organic carbon, water, fltrd, mg/L (00681)
MAR													
30...	9	<.08	2.4	6.8	1.2	1.32	.7	<.20	180	.70	.6	.91	1.4
MAY													
13...	163	.13	2.8	31.7	.5	4.15	E.2	<.20	92.1	.65	5.5	.53	17
23...	112	<.08	2.7	9.4	.6	2.63	.4	<.20	83.8	.57	1.7	.61	11
JUN													
02...	26	1.44	1.0	2.5	E.3	3.54	<.4	<.20	43.2	.25	16.5	.22	8.0
JUL													
06...	10	<.08	3.3	3.4	1.2	1.77	.6	<.20	140	.64	2.5	.89	3.8
AUG													
01...	8	<.08	3.1	5.0	1.3	1.51	.7	<.20	148	.71	E.5	.78	3.8
22...	9	<.08	4.1	3.8	1.5	2.42	.6	<.20	148	.81	.7	.83	2.8

Date	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Total carbon, suspnd sedimnt total, mg/L (00694)	Particulate nitrogen, susp, water, mg/L (49570)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)
MAR							
30...	<.12	.418	.439	.027	14	832	94
MAY							
13...	4.04	13.6	17.6	.823	985	1070000	84
23...	2.51	2.61	5.12	.241	781	984000	80
JUN							
02...	3.17	6.72	9.89	.347	499	536000	79
JUL							
06...	2.08	2.58	4.65	.156	403	205000	81
AUG							
01...	2.66	3.19	5.84	.205	311	145000	75
22...	5.43	2.32	7.75	.209	616	271000	91

E Estimated

15477740 GOODPASTER RIVER NEAR BIG DELTA

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

DRAINAGE AREA.--677 mi^2.

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	288	e100	e110	e90	e85	e75	e75	2840	963	673	1020	554
2	269	e100	e110	e90	e85	e75	e75	1960	1070	648	1750	640
3	251	e100	e100	e90	e80	e75	e75	1600	1460	641	1320	597
4	263	e100	e100	e90	e80	e75	e75	1470	2110	647	1090	556
5	248	e100	e100	e90	e80	e75	e75	1260	1550	747	988	524
6	249	e110	e90	e90	e80	e75	e75	1170	1150	742	965	503
7	248	e110	e90	e90	e80	e75	e75	1190	961	787	965	489
8	246	e120	e90	e90	e80	e75	e75	1430	847	854	883	506
9	239	e130	e90	e90	e80	e75	e75	1710	786	769	822	569
10	222	e130	e90	e85	e80	e75	e75	2050	728	764	757	570
11	224	e120	e90	e85	e80	e75	e75	1820	682	705	711	548
12	e200	e120	e90	e85	e80	e75	e80	1550	722	648	676	532
13	220	e120	e90	e85	e80	e75	e80	1820	1270	608	648	527
14	214	e120	e90	e85	e80	e75	e80	1920	1270	581	624	509
15	207	e120	e90	e85	e80	e75	e80	1800	1060	562	608	504
16	e200	e120	e90	e85	e80	e75	e80	2110	881	543	595	491
17	e180	e120	e90	e85	e80	e75	e80	1410	796	544	584	479
18	e170	e120	e90	e85	e75	e75	e80	5430	828	806	574	487
19	e160	e120	e90	e85	e75	e75	e90	2640	1190	1150	553	507
20	e150	e110	e90	e85	e75	e75	e90	1720	4270	1020	541	659
21	e160	e110	e90	e85	e75	e75	e90	1310	2520	845	534	829
22	e180	e110	e90	e85	e75	e75	e90	1150	1590	746	556	792
23	e180	e110	e90	e85	e75	e75	e100	1020	1290	689	555	837
24	e170	e110	e90	e85	e75	e75	e200	903	1060	653	526	1010
25	e160	e110	e90	e85	e75	e75	e400	887	942	619	516	1440
26	e160	e110	e90	e85	e75	e75	e1000	879	870	588	510	1240
27	e150	e110	e90	e85	e75	e75	e1400	945	787	565	507	1030
28	e150	e110	e90	e85	e75	e75	e2000	1140	732	597	504	946
29	e140	e110	e90	e85	---	e75	e3000	1020	684	584	491	905
30	e140	e110	e90	e85	---	e75	e3300	891	650	649	487	902
31	e120	---	e90	e85	---	e75	---	871	---	724	528	---
TOTAL	6158	3390	2860	2680	2195	2325	13145	49916	35719	21698	22388	20682
MEAN	199	113	92.3	86.5	78.4	75.0	438	1610	1191	700	722	689
MAX	288	130	110	90	85	75	3300	5430	4270	1150	1750	1440
MIN	120	100	90	85	75	75	75	871	650	543	487	479
AC-FT	12210	6720	5670	5320	4350	4610	26070	99010	70850	43040	44410	41020
CFSM	0.29	0.17	0.14	0.13	0.12	0.11	0.65	2.38	1.76	1.03	1.07	1.02
IN.	0.34	0.19	0.16	0.15	0.12	0.13	0.72	2.74	1.96	1.19	1.23	1.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#

MEAN	267	121	88.9	66.6	56.5	51.5	190	1069	932	769	940	748
MAX	385	153	123	90.6	83.3	76.4	440	1610	1993	1158	1651	1785
(WY)	2004	2003	2003	2001	2004	2001	2003	2005	2000	2003	2000	2003
MIN	149	90.1	57.5	28.9	13.6	10.5	52.7	562	468	384	481	329
(WY)	2000	1999	1999	1999	1999	1999	2002	2003	1998	2004	2004	2004

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005#	
ANNUAL TOTAL	132953		183156			
ANNUAL MEAN	363		502		448	
HIGHEST ANNUAL MEAN					595	2000
LOWEST ANNUAL MEAN					272	1999
HIGHEST DAILY MEAN	4820	May 7	5430	May 18	8890	Sep 2 2003
LOWEST DAILY MEAN	a72	Mar 25	b75	Feb 18	c10	Mar 8 1999
ANNUAL SEVEN-DAY MINIMUM	72	Mar 25	75	Feb 18	10	Mar 8 1999
MAXIMUM PEAK FLOW			7750	May 18	11300	Sep 2 2003
MAXIMUM PEAK STAGE			19.08	May 18	d17.97	Sep 2 2003
ANNUAL RUNOFF (AC-FT)	263700		363300		324400	
ANNUAL RUNOFF (CFSM)	0.537		0.741		0.661	
ANNUAL RUNOFF (INCHES)	7.31		10.06		8.99	
10 PERCENT EXCEEDS	836		1210		1060	
50 PERCENT EXCEEDS	160		160		180	
90 PERCENT EXCEEDS	76		75		44	

\# See Period of Record; partial years used in monthly statistics
a From Mar. 25 to Apr. 9
b From Feb. 18 to Apr. 11
c From Mar. 8 to 24, 1999
d Recorded at downstream gage site. (19.49 ft was recorded Aug. 14, 2000 at upstream gage site but corresponds to a lower peak flow.)
e Estimated

15477768 SONORA CREEK ABOVE TRIBUTARY NEAR BIG DELTA

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

DRAINAGE AREA.--6.05 mi^2.

PERIOD OF RECORD.--May 2000 to September 2005 (discontinued).

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

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

REVISIONS.--Peak discharges for the period of record have been revised and are tabulated below. They supersede figures published in reports for 2001 to 2004:

Date	Discharge (ft^3/s)	Gage Height (ft)	Date	Discharge (ft^3/s)	Gage Height (ft)
May 22, 2000	a47	21.17	Apr. 27, 2003	a42	21.09
May 23, 2001	17	20.47	May 7, 2004	a92	21.74
May 14, 2002	a76	21.56			

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2.6	1.9	e1.4	e1.2	e1.1	e1.0	e1.0	9.5	3.0	5.3	8.5	4.6
2	2.3	1.9	e1.4	e1.2	e1.1	e1.0	e1.0	6.4	4.0	5.4	9.9	4.6
3	2.6	1.9	e1.4	e1.2	e1.1	e1.0	e1.0	6.9	7.3	5.4	7.9	4.5
4	2.5	1.9	e1.4	e1.2	e1.1	e1.0	e1.0	8.4	7.8	5.5	6.9	4.4
5	2.4	1.8	e1.4	e1.2	e1.0	e1.0	e1.0	7.0	5.7	6.0	6.5	4.3
6	2.5	e1.8	e1.4	e1.2	e1.0	e1.0	e1.0	6.4	4.3	6.3	6.6	4.3
7	2.5	e1.8	e1.4	e1.2	e1.0	e1.0	e1.0	8.1	3.7	6.4	6.3	4.2
8	2.5	e1.8	e1.4	e1.2	e1.0	e1.0	e1.0	10	3.5	6.2	5.9	4.3
9	2.4	e1.8	e1.3	e1.2	e1.0	e1.0	e1.0	10	3.3	6.1	5.7	4.3
10	2.4	e1.8	e1.3	e1.1	e1.0	e1.0	e1.0	8.3	3.2	6.0	5.4	4.3
11	2.3	e1.8	e1.3	e1.1	e1.0	e1.0	e1.0	6.5	3.1	5.7	5.2	4.3
12	2.3	e1.7	e1.3	e1.1	e1.0	e1.0	e1.0	5.0	3.2	5.5	5.1	4.3
13	2.4	e1.7	e1.3	e1.1	e1.0	e1.0	e1.0	5.0	4.4	5.3	4.9	4.2
14	2.3	e1.7	e1.3	e1.1	e1.0	e1.0	e1.0	4.3	4.2	5.1	4.8	4.2
15	2.2	e1.7	e1.3	e1.1	e1.0	e1.0	e1.0	3.6	4.6	5.0	4.7	4.2
16	2.2	e1.6	e1.3	e1.1	e1.0	e1.0	e1.0	3.1	3.9	4.9	4.6	4.1
17	2.0	e1.6	e1.3	e1.1	e1.0	e1.0	e1.0	4.0	4.5	5.6	4.6	4.1
18	e1.8	e1.6	e1.3	e1.1	e1.0	e1.0	e1.0	18	5.5	6.8	4.5	4.3
19	1.8	e1.6	e1.3	e1.1	e1.0	e1.0	e1.0	6.3	13	7.9	4.4	4.4
20	2.1	e1.6	e1.3	e1.1	e1.0	e1.0	e1.1	4.2	21	6.4	4.4	4.6
21	2.2	e1.6	e1.3	e1.1	e1.0	e1.0	e1.3	3.6	10	5.8	4.4	4.9
22	2.3	e1.6	e1.3	e1.1	e1.0	e1.0	e1.7	3.5	7.5	5.5	4.3	4.9
23	2.2	e1.5	e1.3	e1.1	e1.0	e1.0	e2.3	3.2	6.5	5.3	4.3	5.1
24	2.1	e1.5	e1.3	e1.1	e1.0	e1.0	e3.4	3.0	5.9	5.1	4.2	6.2
25	2.1	e1.5	e1.2	e1.1	e1.0	e1.0	e5.0	3.0	5.9	5.0	4.2	6.5
26	2.1	e1.5	e1.2	e1.1	e1.0	e1.0	6.4	3.1	5.7	4.9	4.2	6.0
27	2.1	e1.5	e1.2	e1.1	e1.0	e1.0	8.1	3.0	5.5	4.8	4.1	5.7
28	2.0	e1.5	e1.2	e1.1	e1.0	e1.0	8.5	3.0	5.3	5.0	4.1	5.4
29	2.0	e1.5	e1.2	e1.1	---	e1.0	9.5	3.0	5.1	4.8	4.1	5.4
30	2.0	e1.4	e1.2	e1.1	---	e1.0	11	2.9	5.0	5.1	4.2	5.4
31	2.0	---	e1.2	e1.1	---	e1.0	---	2.9	---	4.9	4.3	---
TOTAL	69.2	50.1	40.4	35.0	28.4	31.0	77.3	175.2	175.6	173.0	163.2	142.0
MEAN	2.23	1.67	1.30	1.13	1.01	1.00	2.58	5.65	5.85	5.58	5.26	4.73
MAX	2.6	1.9	1.4	1.2	1.1	1.0	11	18	21	7.9	9.9	6.5
MIN	1.8	1.4	1.2	1.1	1.0	1.0	1.0	2.9	3.0	4.8	4.1	4.1
MED	2.2	1.6	1.3	1.1	1.0	1.0	1.0	4.3	5.1	5.4	4.6	4.4
AC-FT	137	99	80	69	56	61	153	348	348	343	324	282
CFSM	0.37	0.28	0.22	0.19	0.17	0.17	0.43	0.93	0.97	0.92	0.87	0.78
IN.	0.43	0.31	0.25	0.22	0.17	0.19	0.48	1.08	1.08	1.06	1.00	0.87

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2000 - 2005, BY WATER YEAR (WY)#

MEAN	4.15	2.64	1.90	1.51	1.39	1.31	2.47	7.00	3.82	3.89	5.42	5.90
MAX	6.03	3.89	2.63	2.03	1.68	1.50	4.24	10.7	5.85	5.58	7.97	9.42
(WY)	2001	2001	2001	2001	2001	2003	2003	2002	2005	2005	2002	2000
MIN	2.23	1.67	1.16	1.12	1.01	1.00	1.23	3.79	2.10	2.58	3.32	2.70
(WY)	2005	2005	2002	2002	2005	2005	2002	2003	2003	2000	2004	2004

\# See Period of Record; partial year was used in monthly statistics
a From rating curve extended above 16 cfs based on step-backwater analysis
e Estimated

15453500 YUKON RIVER NEAR STEVENS VILLAGE—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1970-72, 1978, and 2001 to August 2005 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Sample location, cross section ft from rt bank (72103)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
MAR								
30...	1750	225.0	277	--	.1	757	8.6	59
30...	1752	380.0	273	--	.1	757	8.6	59
30...	1754	600.0	274	--	.1	757	8.7	60
30...	1756	850.0	--	--	.1	757	8.6	--
30...	1758	1275	274	--	.1	757	8.6	59
MAY								
13...	1135	375.0	171	8.0	5.9	756	11.4	92
13...	1137	700.0	171	8.0	5.8	756	12.6	101
13...	1139	1050	171	8.0	5.8	756	12.6	101
13...	1141	1400	171	8.0	5.7	756	11.5	92
13...	1143	1750	170	8.0	5.8	756	11.5	93
23...	1620	318.0	155	8.4	9.7	--	10.7	--
23...	1622	744.0	155	8.3	9.6	--	9.7	--
23...	1624	1150	155	8.4	9.6	--	9.7	--
23...	1626	1520	152	8.5	9.6	--	9.7	--
23...	1628	1873	155	8.5	9.6	--	9.7	--
JUN								
02...	1720	312.0	188	7.9	12.8	767	10.0	94
02...	1722	770.0	189	8.0	12.8	767	9.7	91
02...	1724	1125	189	8.0	12.7	767	9.5	89
02...	1726	1500	189	8.0	12.6	767	9.5	89
02...	1728	1890	189	8.0	12.6	767	9.6	89
JUL								
06...	1750	223.0	228	7.9	17.3	750	10.4	110
06...	1752	569.0	228	8.0	17.2	750	10.3	109
06...	1754	872.0	228	8.0	17.2	750	10.4	110
06...	1756	1176	226	8.0	17.2	750	10.4	110
06...	1758	1538	228	8.0	17.2	750	10.3	109
AUG								
01...	1620	200.0	242	8.1	15.1	762	9.8	97
01...	1622	570.0	240	8.1	15.0	762	9.8	97
01...	1624	885.0	240	8.1	14.9	762	9.9	98
01...	1626	1180	238	8.1	14.9	762	9.8	97
01...	1628	1530	242	8.1	14.9	762	9.8	97
22...	1740	240.0	247	7.9	13.4	--	11.6	--
22...	1742	604.0	247	7.9	13.4	--	11.6	--
22...	1744	892.0	247	7.9	13.4	--	11.6	--
22...	1746	1200	247	7.9	13.4	--	11.6	--
22...	1748	1502	247	7.9	13.4	--	11.6	--

Date	Time	Medium code	Sample type	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Type of blank sample, code (99102)	Type of repli-cate, code (99105)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)
MAR													
30...	1730	9	9	--	22000	20	3039	110	--	--	274	--	-7.8
MAY													
13...	1115	9	9	--	402000	20	3055	110	--	--	171	8.0	--
23...	1600	9	9	47.38	466000	20	3055	10	100	--	155	8.4	--
JUN													
02...	1700	9	9	--	398000	20	3055	30	--	10	189	8.0	--
JUL													
06...	1730	9	9	32.08	188000	20	3055	110	--	--	228	8.0	--
AUG													
01...	1600	9	9	30.60	173000	20	3055	110	--	--	240	8.1	--
22...	1720	9	9	29.90	163000	20	3055	110	--	--	247	7.9	--

Date	Temper-ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)
MAR													
30...	.0	--	.0353	.0248	757	8.6	59	150	43.0	10.5	2.93	1.20	133
MAY													
13...	5.8	268	.6188	.4631	756	11.9	96	86	25.1	5.63	1.96	1.52	72
23...	9.6	235	.4134	.3108	--	9.9	--	80	23.3	5.25	1.70	1.12	70
JUN													
02...	12.7	156	.2852	.2129	767	9.7	91	36	10.4	2.49	.80	.40	84
JUL													
06...	17.2	223	.1086	.0802	750	10.4	110	120	33.3	8.64	2.60	1.44	91
AUG													
01...	14.9	135	.3118	.2445	762	9.8	97	120	32.5	8.59	2.83	1.23	103

15477768 SONORA CREEK ABOVE TRIBUTARY NEAR BIG DELTA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2000 - 2005#	
ANNUAL TOTAL	1090.4		1160.4			
ANNUAL MEAN	2.98		3.18		3.35	
HIGHEST ANNUAL MEAN					3.64	2002
LOWEST ANNUAL MEAN					3.18	2005
HIGHEST DAILY MEAN	37	May 7	21	Jun 20	37	May 7 2004
LOWEST DAILY MEAN	b1.2	Dec 25	c1.0	Feb 5	0.94	Apr 20 2002
ANNUAL SEVEN-DAY MINIMUM	1.2	Dec 25	1.0	Feb 5	0.95	Apr 20 2002
MAXIMUM PEAK FLOW			36	Jun 20	92	May 7 2004
MAXIMUM PEAK STAGE			20.96	Jun 20	21.74	May 7 2004
INSTANTANEOUS LOW FLOW					d0.56	Mar 21 2000
ANNUAL RUNOFF (AC-FT)	2160		2300		2430	
ANNUAL RUNOFF (CFSM)	0.492		0.525		0.554	
ANNUAL RUNOFF (INCHES)	6.70		7.14		7.53	
10 PERCENT EXCEEDS	4.9		6.3		6.3	
50 PERCENT EXCEEDS	2.1		2.1		2.5	
90 PERCENT EXCEEDS	1.4		1.0		1.1	

\# See Period of Record; partial year was used in monthly statistics
b Dec. 25 through Dec. 31
c Feb. 5 through Apr. 19
d Minimum observed outside period of record, result of discharge measurement

15477770 SONORA CREEK NEAR BIG DELTA

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

DRAINAGE AREA.--10.5 mi^2.

PERIOD OF RECORD.--August 1997 to September 2005 (discontinued).

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3.7	e2.3	e1.9	e1.8	e1.6	e1.6	e1.7	21	e6.8	10	17	7.6
2	3.1	e2.3	e1.9	e1.8	e1.6	e1.6	e1.7	15	e8.8	11	19	7.6
3	3.5	e2.2	e1.9	e1.8	e1.6	e1.6	e1.7	14	e15	10	15	7.4
4	3.5	e2.2	e1.8	e1.8	e1.6	e1.6	e1.7	14	e16	11	12	7.0
5	3.3	e2.2	e1.8	e1.8	e1.6	e1.6	e1.7	11	e12	12	11	6.7
6	3.3	e2.2	e1.8	e1.8	e1.6	e1.6	e1.7	10	e9.6	12	11	6.7
7	3.3	e2.2	e1.8	e1.8	e1.6	e1.6	e1.7	12	e8.4	12	11	6.6
8	3.3	e2.1	e1.8	e1.8	e1.6	e1.7	e1.7	15	e7.8	11	10	6.9
9	3.1	e2.1	e1.8	e1.7	e1.6	e1.7	e1.7	15	e7.4	11	9.4	6.9
10	3.3	e2.1	e1.8	e1.7	e1.6	e1.7	e1.7	12	e7.2	11	8.7	6.8
11	3.0	e2.1	e1.8	e1.7	e1.6	e1.7	e1.7	9.5	e7.0	10	8.2	6.7
12	3.0	e2.0	e1.8	e1.7	e1.6	e1.7	e1.7	7.4	e7.2	9.7	8.0	6.7
13	3.1	e2.0	e1.8	e1.7	e1.6	e1.7	e1.7	7.5	e9.8	9.2	7.8	6.6
14	3.0	e2.0	e1.8	e1.7	e1.6	e1.7	e1.7	6.6	e9.4	8.9	7.5	6.7
15	2.7	e2.0	e1.8	e1.7	e1.6	e1.7	e1.7	5.5	e10	8.6	7.4	6.6
16	2.8	e2.0	e1.8	e1.7	e1.6	e1.7	e1.7	e5.0	e8.2	8.4	7.4	6.5
17	2.3	e2.0	e1.8	e1.7	e1.6	e1.7	e1.7	e8.0	e9.6	9.7	7.3	6.3
18	e2.0	e2.0	e1.8	e1.7	e1.6	e1.7	e1.7	e40	e13	16	7.1	6.6
19	e2.2	e2.0	e1.8	e1.7	e1.6	e1.7	e1.7	e13	e28	20	7.0	6.9
20	e2.4	e2.0	e1.8	e1.7	e1.6	e1.7	e1.8	e9.0	e50	14	7.1	7.4
21	e2.5	e2.0	e1.8	e1.7	e1.6	e1.7	e2.0	e8.0	e23	12	6.9	7.9
22	e2.6	e2.0	e1.8	e1.7	e1.6	e1.7	e2.5	e7.6	e15	10	6.6	7.7
23	e2.6	e1.9	e1.8	e1.7	e1.6	e1.7	e3.5	e6.8	e13	9.8	6.7	8.1
24	e2.5	e1.9	e1.8	e1.7	e1.6	e1.7	e5.0	e6.3	e12	9.1	6.4	10
25	e2.5	e1.9	e1.8	e1.7	e1.6	e1.7	e8.0	e6.2	e12	8.7	6.6	11
26	e2.5	e1.9	e1.8	e1.7	e1.6	e1.7	e12	e6.3	e11	8.2	6.5	10
27	e2.4	e1.9	e1.8	e1.6	e1.6	e1.7	e16	e6.0	e10	8.3	6.4	9.2
28	e2.4	e1.9	e1.8	e1.6	e1.6	e1.7	e19	e6.0	e10	8.5	6.5	8.6
29	e2.4	e1.9	e1.8	e1.6	---	e1.7	23	e6.0	e9.8	8.1	6.4	8.7
30	e2.3	e1.9	e1.8	e1.6	---	e1.7	23	e5.8	9.7	8.8	6.7	8.8
31	e2.3	---	e1.8	e1.6	---	e1.7	---	e5.8	---	8.4	6.9	---
TOTAL	86.9	61.2	56.1	53.0	44.8	52.0	148.1	321.3	376.7	325.4	271.5	227.2
MEAN	2.80	2.04	1.81	1.71	1.60	1.68	4.94	10.4	12.6	10.5	8.76	7.57
MAX	3.7	2.3	1.9	1.8	1.6	1.7	23	40	50	20	19	11
MIN	2.0	1.9	1.8	1.6	1.6	1.6	1.7	5.0	6.8	8.1	6.4	6.3
AC-FT	172	121	111	105	89	103	294	637	747	645	539	451
CFSM	0.27	0.19	0.17	0.16	0.15	0.16	0.47	0.99	1.20	1.00	0.83	0.72
IN.	0.31	0.22	0.20	0.19	0.16	0.18	0.52	1.14	1.33	1.15	0.96	0.80

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#

MEAN	4.52	2.80	1.95	1.45	1.29	1.21	2.99	10.3	5.98	5.64	7.71	8.00
MAX	8.88	5.06	3.41	2.69	2.34	2.12	7.40	16.4	12.6	10.5	16.0	18.5
(WY)	2001	2004	2004	2004	2004	2004	2003	2000	2005	2005	2000	2000
MIN	1.63	1.31	0.98	0.71	0.56	0.45	0.91	4.27	1.74	3.11	4.29	2.69
(WY)	2000	2000	1998	1998	1998	1998	1998	1998	1998	1998	1998	1999

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005#	
ANNUAL TOTAL	1661.0		2024.2			
ANNUAL MEAN	4.54		5.55		4.54	
HIGHEST ANNUAL MEAN					5.91	2000
LOWEST ANNUAL MEAN					2.07	1998
HIGHEST DAILY MEAN	99	May 7	50	Jun 20	99	May 7 2004
LOWEST DAILY MEAN	a1.8	Dec 4	b1.6	Jan 27	0.40	Mar 7 1998
ANNUAL SEVEN-DAY MINIMUM	1.8	Dec 4	1.6	Jan 27	0.40	Mar 7 1998
MAXIMUM PEAK FLOW			86	Jun 20	c180	May 7 2004
MAXIMUM PEAK STAGE			d29.82	Jun 20	30.46	May 7 2004
ANNUAL RUNOFF (AC-FT)	3290		4020		3290	
ANNUAL RUNOFF (CFSM)	0.432		0.528		0.432	
ANNUAL RUNOFF (INCHES)	5.88		7.17		5.87	
10 PERCENT EXCEEDS	7.9		12		9.5	
50 PERCENT EXCEEDS	2.8		2.5		2.7	
90 PERCENT EXCEEDS	1.9		1.6		0.80	

\# See Period of Record; partial years used in monthly statistics
a From Dec 4 to Dec 31
b From Jan 27 to Mar 7
c From rating curve extended above 30 ft^3/s
d From crest-stage gage
e Estimated

15477790 CENTRAL CREEK NEAR BIG DELTA

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

DRAINAGE AREA.--115 mi^2.

PERIOD OF RECORD.--August 1997 to September 2005 (discontinued).

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.

REVISIONS.--Revised daily discharges in cubic feet per second for water year 2004 are given below. These figures supersede those published in report and AK-04-1.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	27	e8.5	e7.5	e5.5	e5.0	e4.5	e4.2	483	61	85	283	91
2	22	e8.0	e7.0	e5.5	e5.0	e4.5	e4.2	337	77	83	346	107
3	24	e7.6	e7.0	e5.5	e5.0	e4.5	e4.2	280	230	81	217	100
4	25	e7.4	e7.0	e5.5	e5.0	e4.5	e4.2	288	324	82	167	92
5	21	e7.0	e7.0	e5.5	e4.5	e4.5	e4.2	257	200	90	159	86
6	25	e7.4	e7.0	e5.5	e4.5	e4.5	e4.2	225	138	91	154	82
7	23	e8.0	e7.0	e5.5	e4.5	e4.5	e4.2	248	108	89	148	80
8	23	e9.0	e7.0	e5.0	e4.5	e4.5	e4.2	311	91	90	135	81
9	22	e9.4	e6.5	e5.0	e4.5	e4.5	e4.2	329	79	89	123	81
10	20	e10	e6.5	e5.0	e4.5	e4.5	e4.2	301	71	100	113	80
11	22	e11	e6.5	e5.0	e4.5	e4.5	e4.2	231	64	94	105	79
12	18	e11	e6.5	e5.0	e4.5	e4.5	e4.5	190	63	86	99	78
13	22	e10	e6.5	e5.0	e4.5	e4.5	e4.5	193	81	80	94	78
14	21	e9.5	e6.5	e5.0	e4.5	e4.5	e4.5	169	96	75	90	78
15	20	e9.5	e6.5	e5.0	e4.5	e4.2	e4.5	144	110	72	85	77
16	16	e9.0	e6.0	e5.0	e4.5	e4.2	e4.5	128	93	69	85	77
17	e13	e9.0	e6.0	e5.0	e4.5	e4.2	e4.5	105	94	71	83	76
18	e10	e8.5	e6.0	e5.0	e4.5	e4.2	e4.5	526	103	96	81	77
19	e9.0	e8.5	e6.0	e5.0	e4.5	e4.2	e5.0	255	183	257	79	83
20	e10	e8.0	e6.0	e5.0	e4.5	e4.2	e7.0	156	769	172	78	102
21	e12	e8.0	e6.0	e5.0	e4.5	e4.2	e10	121	318	131	76	122
22	e15	e8.0	e6.0	e5.0	e4.5	e4.2	e14	119	189	111	75	116
23	e15	e8.0	e6.0	e5.0	e4.5	e4.2	18	106	143	100	73	117
24	e14	e8.0	e6.0	e5.0	e4.5	e4.2	30	94	120	92	72	132
25	e14	e8.0	e6.0	e5.0	e4.5	e4.2	62	85	111	87	72	162
26	e13	e8.0	e6.0	e5.0	e4.5	e4.2	136	84	106	81	72	151
27	e12	e8.0	e5.5	e5.0	e4.5	e4.2	241	79	99	77	71	137
28	e11	e8.0	e5.5	e5.0	e4.5	e4.2	318	75	96	85	70	127
29	e10	e8.0	e5.5	e5.0	---	e4.2	358	70	89	84	70	121
30	e9.5	e8.0	e5.5	e5.0	---	e4.2	482	65	82	93	70	122
31	e9.0	---	e5.5	e5.0	---	e4.2	---	61	---	111	82	---
TOTAL	527.5	256.3	195.5	158.5	128.0	134.4	1758.7	6115	4388	3004	3527	2992
MEAN	17.0	8.54	6.31	5.11	4.57	4.34	58.6	197	146	96.9	114	99.7
MAX	27	11	7.5	5.5	5.0	4.5	482	526	769	257	346	162
MIN	9.0	7.0	5.5	5.0	4.5	4.2	4.2	61	61	69	70	76
AC-FT	1050	508	388	314	254	267	3490	12130	8700	5960	7000	5930
CFSM	0.15	0.07	0.05	0.04	0.04	0.04	0.51	1.72	1.27	0.84	0.99	0.87
IN.	0.17	0.08	0.06	0.05	0.04	0.04	0.57	1.98	1.42	0.97	1.14	0.97

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	32.3	14.2	7.29	4.36	3.43	3.06	24.4	179	97.6	80.3	111	92.5
MAX	60.3	30.9	17.4	11.3	8.74	8.00	68.4	318	170	128	237	228
(WY)	2003	2001	2003	2001	2001	2004	2003	2004	2000	2001	2000	2003
MIN	13.8	4.71	0.75	0.03	0.00	0.00	3.83	81.6	26.3	33.0	36.1	26.0
(WY)	2000	1999	1999	1999	1999	1999	2002	1998	1998	2004	2004	2004

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	18315.2		23184.9			
ANNUAL MEAN	50.0		63.5		55.0	
HIGHEST ANNUAL MEAN					75.7	2002
LOWEST ANNUAL MEAN					26.8	1998
HIGHEST DAILY MEAN	2040	May 7	769	Jun 20	2040	May 7 2004
LOWEST DAILY MEAN	a5.5	Dec 27	b4.2	Mar 15	c0.00	Jan 8 1999
ANNUAL SEVEN-DAY MINIMUM	5.6	Dec 25	4.2	Mar 15	0.00	Jan 8 1999
MAXIMUM PEAK FLOW			1090	Jun 20	d2800	May 7 2004
MAXIMUM PEAK STAGE			46.06	Jun 20	46.42	May 7 2004
ANNUAL RUNOFF (AC-FT)	36330		45990		39850	
ANNUAL RUNOFF (CFSM)	0.435		0.552		0.478	
ANNUAL RUNOFF (INCHES)	5.92		7.50		6.50	
10 PERCENT EXCEEDS	96		155		132	
50 PERCENT EXCEEDS	14		13		21	
90 PERCENT EXCEEDS	8.0		4.5		0.40	

\# See Period of Record; partial years used in monthly statistics
a From Dec 27 to Dec 31
b From Mar 15 to Apr 11
c From Jan. 8 to Apr.17, 1999 and Feb. 18 to Apr. 17, 2000
d From rating curve extended above 430 ft^3/s
e Estimated

15478040 PHELAN CREEK NEAR PAXSON

LOCATION.--Lat 63°14'27", Long 145°28'03", in SW$^1/_4$ sec. 28, T. 19 S., R. 12 E. (Mt.Hayes A-3 quad), Hydrologic Unit 19020102, on left bank about 1 mi downstream from terminus of Gulkana Glacier and 14.5 mi north of Paxson, Alaska.

DRAINAGE AREA.--12.2 mi^2.

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

GAGE.--Water-stage recorder. Datum of gage is 3,690 ft above sea level.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	15	e8.7	e6.2	e5.3	e4.5	e3.8	e3.4	e4.5	112	306	139	83
2	15	e8.5	e6.1	e5.2	e4.5	e3.8	e3.4	e5.0	101	314	163	74
3	16	e8.4	e6.1	e5.2	e4.4	e3.8	e3.4	e6.0	103	389	175	74
4	16	e8.3	e6.1	e5.2	e4.4	e3.8	e3.4	e7.0	124	376	206	94
5	17	e8.1	e6.0	e5.2	e4.4	e3.8	e3.4	e8.0	152	391	229	113
6	16	e8.0	e6.0	e5.2	e4.4	e3.8	e3.4	e10	190	330	225	124
7	15	e7.8	e5.9	e5.1	e4.3	e3.8	e3.4	e15	194	438	238	125
8	e14	e7.7	e5.9	e5.1	e4.3	e3.7	e3.3	e20	196	475	288	98
9	14	e7.6	e5.9	e5.0	e4.3	e3.7	e3.3	e30	203	446	358	110
10	13	e7.5	e5.9	e5.0	e4.2	e3.7	e3.3	e40	236	511	457	189
11	13	e7.4	e5.8	e5.0	e4.2	e3.7	e3.3	e50	289	476	517	127
12	13	e7.3	e5.8	e5.0	e4.2	e3.7	e3.3	e60	255	363	508	142
13	12	e7.2	e5.8	e5.0	e4.2	e3.6	e3.3	e70	352	611	448	136
14	12	e7.1	e5.8	e5.0	e4.1	e3.6	e3.3	e85	339	631	487	101
15	12	e7.1	e5.7	e4.9	e4.1	e3.6	e3.3	e100	294	399	368	89
16	e12	e7.0	e5.7	e4.9	e4.1	e3.6	e3.3	e125	330	401	414	99
17	e12	e6.9	e5.7	e4.9	e4.0	e3.6	e3.3	e125	353	397	480	92
18	e11	e6.8	e5.6	e4.9	e4.0	e3.6	e3.3	e100	320	696	364	70
19	e11	e6.8	e5.6	e4.9	e4.0	e3.6	e3.3	84	370	473	299	65
20	e11	e6.7	e5.6	e4.8	e4.0	e3.6	e3.3	97	330	369	271	59
21	e11	e6.7	e5.6	e4.8	e4.0	e3.6	e3.3	102	303	306	422	49
22	e11	e6.6	e5.5	e4.8	e3.9	e3.6	e3.3	98	265	314	289	45
23	e10	e6.6	e5.5	e4.8	e3.9	e3.5	e3.4	96	256	238	375	59
24	e10	e6.5	e5.5	e4.7	e3.9	e3.5	e3.4	104	257	246	307	92
25	e10	e6.5	e5.5	e4.7	e3.9	e3.5	e3.4	108	259	235	186	56
26	e9.8	e6.4	e5.5	e4.7	e3.8	e3.5	e3.5	106	281	284	165	48
27	e9.6	e6.4	e5.4	e4.7	e3.8	e3.5	e3.6	111	314	344	143	44
28	e9.4	e6.3	e5.4	e4.6	e3.8	e3.5	e3.7	119	326	275	123	40
29	e9.3	e6.3	e5.4	e4.6	---	e3.4	e3.8	118	387	268	124	37
30	e9.1	e6.2	e5.3	e4.5	---	e3.4	e3.9	121	317	223	137	32
31	e8.9	---	e5.3	e4.5	---	e3.4	---	120	---	167	117	---
TOTAL	378.1	215.4	177.1	152.2	115.6	112.3	102.0	2244.5	7808	11692	9022	2566
MEAN	12.2	7.18	5.71	4.91	4.13	3.62	3.40	72.4	260	377	291	85.5
MAX	17	8.7	6.2	5.3	4.5	3.8	3.9	125	387	696	517	189
MIN	8.9	6.2	5.3	4.5	3.8	3.4	3.3	4.5	101	167	117	32
AC-FT	750	427	351	302	229	223	202	4450	15490	23190	17900	5090
CFSM	1.00	0.59	0.47	0.40	0.34	0.30	0.28	5.93	21.3	30.9	23.9	7.01
IN.	1.15	0.66	0.54	0.46	0.35	0.34	0.31	6.84	23.81	35.65	27.51	7.82

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2005, BY WATER YEAR (WY)#

MEAN	12.5	6.18	4.36	3.38	2.84	2.51	2.38	19.7	156	318	260	62.5
MAX	36.6	15.1	8.67	5.32	5.00	4.71	4.00	72.4	414	536	516	129
(WY)	2004	2003	2003	1996	2004	2004	1971	2005	2004	2004	2004	1995
MIN	5.55	2.50	2.00	1.48	1.00	1.00	1.00	2.39	72.9	181	73.6	14.3
(WY)	1999	1978	1978	1967	1967	1967	1967	1992	1975	1991	1992	1992

\# See Period of Record; breaks in record.
e Estimated

15478040 PHELAN CREEK NEAR PAXSON—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1967 - 2005#	
ANNUAL TOTAL	49146.6		34585.2			
ANNUAL MEAN	134		94.8		71.5	
HIGHEST ANNUAL MEAN					136	2004
LOWEST ANNUAL MEAN					43.0	1973
HIGHEST DAILY MEAN	725	Aug 7	696	Jul 18	1330	Aug 13 1997
LOWEST DAILY MEAN	a4.0	Mar 23	b3.3	Apr 8	c1.0	Jan 16 1967
ANNUAL SEVEN-DAY MINIMUM	4.0	Mar 23	3.3	Apr 8	1.0	Jan 16 1967
MAXIMUM PEAK FLOW			1120	Jul 14	2320	Aug 13 1967
MAXIMUM PEAK STAGE			9.59	Jul 14	11.51	Aug 13 1967
MAXIMUM PEAK STAGE					df14.70	Jun 1 1967
ANNUAL RUNOFF (AC-FT)	97480		68600		51820	
ANNUAL RUNOFF (CFSM)	11.0		7.77		5.86	
ANNUAL RUNOFF (INCHES)	149.86		105.46		79.66	
10 PERCENT EXCEEDS	546		330		261	
50 PERCENT EXCEEDS	7.6		8.3		6.0	
90 PERCENT EXCEEDS	4.0		3.6		2.0	

\# See Period of Record; breaks in record.
a From Mar. 23 to May 2
b From Apr. 8 to 22
c For many days in the winter and spring during water years 1967, 1969, 1978, and 1991
d Backwater from snow and ice
f Occurred in early Jun. as a result of flow over ice.

15484000 SALCHA RIVER NEAR SALCHAKET

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

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

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

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

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

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

Date	Time	Discharge (ft^3/s)	Gage Height (ft)
May 19	0730	*12400	*12.19

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	932	e460	e430	e350	e310	e270	e330	7920	2550	2170	1950	1560
2	949	e430	e430	e350	e310	e270	e330	7180	6450	3100	2010	1680
3	920	e410	e430	e350	e310	e270	e330	5630	6810	3090	2100	1720
4	920	e420	e420	e340	e300	e270	e330	4690	6710	2820	2140	1700
5	939	e430	e410	e340	e300	e270	e330	4340	6190	2670	2060	1650
6	925	e440	e400	e340	e290	e270	e330	3960	4810	2950	2100	1590
7	928	e450	e390	e330	e290	e270	e340	3700	3810	3120	2220	1560
8	922	e460	e390	e330	e290	e270	e340	3740	3210	3370	2330	1560
9	906	e480	e390	e330	e280	e270	e340	4260	2810	3660	2250	1660
10	880	e500	e390	e330	e280	e270	e350	5220	2520	3380	2120	1820
11	874	e520	e390	e330	e270	e270	e360	5230	2310	3730	2010	1840
12	862	e520	e380	e330	e270	e270	e370	4680	2240	3720	1900	1810
13	854	e510	e380	e330	e270	e270	e370	4190	2720	3250	1820	1780
14	848	e500	e370	e320	e270	e280	e370	4520	3300	2900	1760	1830
15	853	e490	e370	e320	e260	e280	e380	4530	3400	2640	1720	1890
16	834	e480	e360	e320	e260	e280	e380	4700	2920	2460	1680	1910
17	800	e470	e360	e320	e260	e280	e390	5070	2610	2320	1650	1880
18	e770	e460	e350	e320	e260	e280	e400	4910	2540	2340	1620	1850
19	e740	e460	e350	e320	e260	e280	e410	10100	2500	2920	1590	1900
20	e710	e460	e350	e320	e260	e280	e420	6360	4410	3580	1570	2040
21	e680	e470	e350	e320	e260	e280	e440	4610	8310	3220	1560	2170
22	e680	e470	e350	e320	e260	e280	e480	3680	5540	2850	1560	2350
23	e690	e460	e350	e320	e270	e290	e550	3070	4330	2590	1500	2450
24	e700	e460	e350	e320	e270	e290	e700	2630	3900	2400	1490	2670
25	e690	e450	e350	e320	e270	e300	e1000	2350	3330	2260	1510	3510
26	e680	e440	e350	e320	e270	e300	e1800	2260	2980	2150	1530	5160
27	e670	e440	e350	e320	e270	e310	e3400	2190	2750	2070	1540	4880
28	e660	e430	e350	e310	e270	e310	e4500	2170	2540	1990	1510	4240
29	e630	e430	e350	e310	---	e310	6670	2310	2340	1950	1490	3890
30	e600	e430	e350	e310	---	e320	7430	2510	2200	1880	1480	3680
31	e540	---	e350	e310	---	e320	---	2280	---	1900	1490	---
TOTAL	24586	13830	11590	10100	7740	8780	34170	134990	113040	85450	55260	70230
MEAN	793	461	374	326	276	283	1139	4355	3768	2756	1783	2341
MAX	949	520	430	350	310	320	7430	10100	8310	3730	2330	5160
MIN	540	410	350	310	260	270	330	2170	2200	1880	1480	1560
AC-FT	48770	27430	22990	20030	15350	17420	67780	267800	224200	169500	109600	139300
CFSM	0.37	0.21	0.17	0.15	0.13	0.13	0.52	2.01	1.74	1.27	0.82	1.08
IN.	0.42	0.24	0.20	0.17	0.13	0.15	0.59	2.31	1.94	1.46	0.95	1.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1949 - 2005, BY WATER YEAR (WY)#

MEAN	1095	513	363	265	215	195	426	4251	3741	2654	3035	2484
MAX	1969	1028	730	471	449	377	1373	8666	8640	7330	13350	6186
(WY)	1994	1994	1994	1992	1994	1992	1993	1962	1964	1949	1967	1952
MIN	484	230	160	130	62.0	60.0	104	1564	963	568	717	636
(WY)	1959	1954	1954	1954	1953	1953	1974	1964	1969	1958	1966	1966

\# See Period of Record
e Estimated

15484000 SALCHA RIVER NEAR SALCHAKET—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1949 - 2005#	
ANNUAL TOTAL	446350		569766			
ANNUAL MEAN	1220		1561		1612	
HIGHEST ANNUAL MEAN					2957	1967
LOWEST ANNUAL MEAN					796	1999
HIGHEST DAILY MEAN	15300	May 8	10100	May 19	94100	Aug 14 1967
LOWEST DAILY MEAN	a300	Mar 27	b260	Feb 15	c60	Mar 1 1953
ANNUAL SEVEN-DAY MINIMUM	300	Mar 27	260	Feb 15	60	Mar 1 1953
MAXIMUM PEAK FLOW			12400	May 19	97000	Aug 14 1967
MAXIMUM PEAK STAGE			12.19	May 19	21.78	Aug 14 1967
ANNUAL RUNOFF (AC-FT)	885300		1130000		1167000	
ANNUAL RUNOFF (CFSM)	0.562		0.719		0.743	
ANNUAL RUNOFF (INCHES)	7.65		9.77		10.09	
10 PERCENT EXCEEDS	2780		3840		3940	
50 PERCENT EXCEEDS	700		690		660	
90 PERCENT EXCEEDS	320		280		170	

\# See Period of Record
a From Mar. 27 to Apr. 6
b From Feb. 15 to Feb. 22
c Monthly mean published for Mar. 1953

15485500 TANANA RIVER AT FAIRBANKS

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

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

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	14300	e7700	e6400	e5600	e5500	e5500	e6900	e40000	34000	55800	49300	34600
2	14400	e6900	e6400	e5600	e5500	e5500	e6900	e40000	35300	58000	46700	33600
3	14400	e6500	e6300	e5600	e5500	e5500	e7000	e39000	38900	59100	44700	31800
4	14300	e6400	e6300	e5600	e5500	e5500	e7000	36900	38700	59600	45400	30400
5	14700	e6400	e6200	e5600	e5500	e5500	e7100	33000	39000	59800	45400	29900
6	14700	e6400	e6100	e5500	e5500	e5600	e7200	30600	39200	61300	45600	30200
7	14600	e6500	e6100	e5500	e5500	e5600	e7300	29500	38200	64000	46200	31400
8	14400	e6600	e6100	e5500	e5500	e5600	e7400	28200	36700	65200	46000	33000
9	14300	e7000	e6100	e5500	e5500	e5600	e7500	28000	36300	65900	45100	33500
10	14100	e7500	e6000	e5500	e5500	e5600	e7600	28600	36000	65100	45800	33000
11	14000	e7800	e6000	e5500	e5500	e5600	e7700	29500	36500	64300	48200	32900
12	13900	e7900	e6000	e5500	e5500	e5600	e7900	30100	37700	66200	51200	33400
13	13500	e7800	e5900	e5500	e5500	e5600	e8000	30500	39600	67800	54000	32400
14	13600	e7500	e5900	e5500	e5500	e5600	e8100	30700	42800	67000	56200	32500
15	13700	e7200	e5900	e5500	e5500	e5600	e8300	31600	48200	64800	58100	31800
16	13600	e7100	e5900	e5500	e5500	e5600	e8400	32600	50900	63400	58200	30200
17	13500	e7100	e5900	e5500	e5500	e5600	e8500	34000	52000	64100	57300	29600
18	13200	e7100	e5900	e5500	e5500	e5600	e8600	33800	53300	64800	56700	29700
19	12600	e7000	e5800	e5500	e5500	e5700	e8700	36300	56800	67900	56100	30000
20	12400	e6900	e5800	e5500	e5500	e5800	e8900	38400	62000	71000	50700	29800
21	11900	e6900	e5800	e5500	e5500	e5800	e9200	34900	70400	68200	47800	29100
22	12000	e6900	e5800	e5500	e5500	e5900	e9400	33200	69900	64200	46600	28600
23	11900	e6800	e5800	e5500	e5500	e5900	e9700	32300	64200	60500	46800	28000
24	11500	e6700	e5700	e5500	e5500	e6000	e10000	31500	60600	58700	44800	27700
25	11300	e6600	e5700	e5500	e5500	e6000	e10500	31000	57300	57000	47200	28300
26	11300	e6600	e5700	e5500	e5500	e6100	e11000	30900	53500	55000	46500	29900
27	11200	e6500	e5700	e5500	e5500	e6200	e12000	30700	51800	54400	40700	29500
28	e11000	e6400	e5700	e5500	e5500	e6300	e20000	30600	51000	55500	38100	28500
29	e10500	e6400	e5700	e5500	---	e6500	e32000	31200	51600	55100	36900	27700
30	e10000	e6400	e5600	e5500	---	e6700	e39000	32200	52500	53100	35600	27200
31	e8600	---	e5600	e5500	---	e6800	---	33000	---	52000	35200	---
TOTAL	399400	207500	183800	171000	154000	180000	317800	1012800	1434900	1908800	1473100	918200
MEAN	12880	6917	5929	5516	5500	5806	10590	32670	47830	61570	47520	30610
MAX	14700	7900	6400	5600	5500	6800	39000	40000	70400	71000	58200	34600
MIN	8600	6400	5600	5500	5500	5500	6900	28000	34000	52000	35200	27200
AC-FT	792200	411600	364600	339200	305500	357000	630400	2009000	2846000	3786000	2922000	1821000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1973 - 2005, BY WATER YEAR (WY)#

MEAN	13920	7894	6265	5665	5473	5426	7594	23080	36670	53230	48880	27290
MAX	20840	12520	8252	7135	6700	6761	12700	36290	51350	66090	70080	44880
(WY)	2003	2003	2004	1986	1991	1993	1995	1991	1992	1992	1997	1990
MIN	8669	5000	4500	4016	3207	3100	4230	14810	25120	39550	34680	16950
(WY)	1997	1977	1977	1974	1974	1974	1974	1998	1978	1996	1996	1976

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1973 - 2005#	
ANNUAL TOTAL	7910100		8361300			
ANNUAL MEAN	21610		22910		20290	
HIGHEST ANNUAL MEAN					22970	2002
LOWEST ANNUAL MEAN					16080	1996
HIGHEST DAILY MEAN	67300	Jun 30	71000	Jul 20	92400	Jul 22 1986
LOWEST DAILY MEAN	a5600	Dec 30	b5500	Jan 6	c3100	Feb 14 1974
ANNUAL SEVEN-DAY MINIMUM	5670	Dec 25	5500	Jan 6	3100	Feb 14 1974
MAXIMUM PEAK FLOW			73600	Jun 21	96400	Jul 22 1986
MAXIMUM PEAK STAGE			24.50	Jun 21	26.25	Aug 14 1997
ANNUAL RUNOFF (AC-FT)	15690000		16580000		14700000	
10 PERCENT EXCEEDS	55600		56100		50600	
50 PERCENT EXCEEDS	11700		11300		10000	
90 PERCENT EXCEEDS	6100		5500		5200	

\# See Period of Record, partial years used in monthly statistics
a From Dec. 30 to Dec. 31
b From Jan. 06 to Mar. 05
c From Feb. 14 to Mar. 31, 1974
e Estimated

15493000 CHENA RIVER NEAR TWO RIVERS

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

DRAINAGE AREA.--937 mi^2.

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

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

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

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of August 13, 1967 reached a stage of 26.60 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	407	e150	e190	e150	e120	e110	e150	3830	1920	1470	1050	758
2	413	e150	e180	e150	e120	e110	e150	2960	3980	2390	1020	779
3	396	e150	e170	e140	e120	e110	e150	2240	2600	1940	988	762
4	399	e160	e170	e140	e110	e110	e150	2060	2320	1710	952	741
5	392	e170	e170	e140	e110	e110	e150	1840	1950	1730	978	717
6	386	e180	e170	e140	e110	e110	e150	1620	1590	1680	1030	695
7	390	e190	e170	e140	e110	e110	e150	1520	1350	1720	1060	685
8	385	e200	e170	e140	e110	e110	e150	1570	1190	2240	1020	721
9	380	e220	e170	e140	e110	e120	e160	1680	1090	2000	973	782
10	372	e230	e170	e140	e110	e120	e160	1750	1010	2570	927	806
11	361	e240	e160	e140	e110	e120	e160	1540	939	2860	886	801
12	353	e250	e160	e140	e110	e120	e160	1390	981	2320	852	786
13	343	e250	e160	e140	e110	e120	e160	1340	1170	1960	819	792
14	339	e240	e160	e140	e110	e120	e170	1470	1190	1720	795	822
15	336	e230	e160	e140	e110	e120	e170	1360	1080	1550	774	823
16	330	e220	e160	e140	e110	e120	e170	1590	962	1450	758	813
17	e320	e210	e160	e130	e110	e120	e180	1460	1480	1490	745	793
18	e310	e210	e160	e130	e110	e130	e190	3290	1480	2000	732	786
19	e300	e220	e160	e130	e110	e130	e200	3000	1290	3460	716	788
20	e290	e230	e160	e130	e110	e130	e220	1920	2400	2910	700	801
21	e280	e230	e160	e130	e110	e130	e260	1500	2520	2240	694	872
22	e280	e230	e160	e130	e110	e140	e340	1260	1840	1890	685	944
23	e280	e220	e160	e130	e110	e140	e450	1110	1540	1670	672	1020
24	e280	e210	e150	e130	e110	e140	e600	996	1340	1520	661	1390
25	e280	e200	e150	e130	e110	e140	e900	918	1180	1410	696	2600
26	e270	e200	e150	e130	e110	e140	e1500	869	1100	1320	701	3020
27	e270	e200	e150	e130	e110	e140	e2300	834	1020	1250	687	2580
28	e260	e190	e150	e130	e110	e140	e3000	814	951	1180	683	2170
29	e230	e190	e150	e130	---	e140	3410	804	894	1120	684	1930
30	e200	e190	e150	e120	---	e140	3670	766	846	1110	683	1690
31	e170	---	e150	e120	---	e140	---	759	---	1090	690	---
TOTAL	10002	6160	5010	4190	3110	3880	19730	50060	45203	56970	25311	33667
MEAN	323	205	162	135	111	125	658	1615	1507	1838	816	1122
MAX	413	250	190	150	120	140	3670	3830	3980	3460	1060	3020
MIN	170	150	150	120	110	110	150	759	846	1090	661	685
AC-FT	19840	12220	9940	8310	6170	7700	39130	99290	89660	113000	50200	66780
CFSM	0.34	0.22	0.17	0.14	0.12	0.13	0.70	1.72	1.61	1.96	0.87	1.20
IN.	0.40	0.24	0.20	0.17	0.12	0.15	0.78	1.99	1.79	2.26	1.00	1.34

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2005, BY WATER YEAR (WY)

MEAN	573	277	191	136	110	97.5	259	1851	1334	1083	1302	1167
MAX	1656	617	369	242	246	171	912	4210	4038	2505	3207	2739
(WY)	1987	1987	1994	1994	1994	1991	2003	1971	1992	1984	1969	2003
MIN	260	120	85.5	38.1	20.2	21.9	68.3	625	323	380	437	423
(WY)	1969	1969	1977	1970	1970	1970	1982	1998	1969	1976	1976	2004

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1968 - 2005	
ANNUAL TOTAL	182163		263293			
ANNUAL MEAN	498		721		702	
HIGHEST ANNUAL MEAN					1080	1971
LOWEST ANNUAL MEAN					398	1997
HIGHEST DAILY MEAN	4350	May 8	3980	Jun 2	17700	Jun 3 1992
LOWEST DAILY MEAN	a140	Mar 24	b110	Feb 4	c20	Feb 6 1970
ANNUAL SEVEN-DAY MINIMUM	140	Mar 24	110	Feb 4	20	Feb 6 1970
MAXIMUM PEAK FLOW			4820	Jun 2	20000	Jun 3 1992
MAXIMUM PEAK STAGE			18.34	Jun 2	d22.04	Jun 3 1992
MAXIMUM PEAK STAGE					f23.56	Jul 28 2003
ANNUAL RUNOFF (AC-FT)	361300		522200		508700	
ANNUAL RUNOFF (CFSM)	0.531		0.770		0.749	
ANNUAL RUNOFF (INCHES)	7.23		10.45		10.18	
10 PERCENT EXCEEDS	1170		1860		1650	
50 PERCENT EXCEEDS	330		280		340	
90 PERCENT EXCEEDS	150		120		87	

a From Mar. 24 to Apr. 5
b From Feb. 4 to Mar. 8
c From Feb. 6 to Mar. 12, 1970
d At site and datum then in use
e Estimated
f At present gage site and datum, corresponds to a discharge of 16000 ft^3/s

15511000 LITTLE CHENA RIVER NEAR FAIRBANKS

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

DRAINAGE AREA.--372 mi^2.

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	136	e50	e75	e50	e40	e35	e45	1160	317	381	392	258
2	148	e50	e75	e45	e40	e35	e50	956	775	889	381	252
3	141	e50	e75	e45	e40	e35	e50	776	631	827	368	243
4	140	e50	e75	e45	e40	e35	e50	685	652	731	354	237
5	138	e55	e70	e45	e40	e35	e50	620	699	748	353	232
6	138	e60	e70	e45	e40	e35	e50	553	618	721	361	227
7	137	e65	e70	e45	e40	e35	e50	493	522	706	356	226
8	134	e70	e70	e45	e40	e35	e50	459	455	775	340	242
9	132	e75	e65	e45	e40	e35	e50	446	409	713	327	251
10	128	e80	e65	e45	e35	e35	e50	439	378	794	314	246
11	122	e85	e65	e45	e35	e35	e50	417	354	838	301	247
12	117	e85	e60	e45	e35	e35	e55	389	370	787	291	243
13	115	e90	e60	e45	e35	e35	e55	375	403	713	284	239
14	112	e90	e60	e45	e35	e40	e55	369	477	663	276	239
15	111	e90	e60	e45	e35	e40	e60	357	457	618	267	241
16	106	e90	e60	e45	e35	e40	e60	345	394	579	260	237
17	105	e90	e55	e45	e35	e40	e60	344	409	554	258	232
18	100	e90	e55	e45	e35	e40	e70	656	479	563	261	230
19	e95	e85	e55	e45	e35	e40	e80	989	453	736	254	232
20	e90	e85	e55	e45	e35	e40	e95	641	631	846	250	230
21	e90	e85	e55	e45	e35	e40	e130	511	751	707	249	238
22	e90	e85	e55	e45	e35	e40	e170	436	611	633	248	245
23	e85	e85	e50	e45	e35	e40	e250	386	536	584	245	263
24	e85	e80	e50	e45	e35	e40	e330	350	474	549	240	314
25	e85	e80	e50	e45	e35	e40	e500	319	435	518	245	442
26	e85	e80	e50	e45	e35	e45	e800	296	414	491	247	530
27	e85	e80	e50	e45	e35	e45	e1400	280	391	472	243	539
28	e80	e80	e50	e45	e35	e45	e1800	270	372	450	237	506
29	e70	e80	e50	e45	---	e45	e1700	260	348	430	236	485
30	e60	e80	e50	e45	---	e45	e1350	248	331	418	243	448
31	e55	---	e50	e40	---	e45	---	246	---	405	241	---
TOTAL	3315	2300	1855	1395	1025	1205	9565	15071	14546	19839	8922	8794
MEAN	107	76.7	59.8	45.0	36.6	38.9	319	486	485	640	288	293
MAX	148	90	75	50	40	45	1800	1160	775	889	392	539
MIN	55	50	50	40	35	35	45	246	317	381	236	226
AC-FT	6580	4560	3680	2770	2030	2390	18970	29890	28850	39350	17700	17440
CFSM	0.29	0.21	0.16	0.12	0.10	0.10	0.86	1.31	1.30	1.72	0.77	0.79
IN.	0.33	0.23	0.19	0.14	0.10	0.12	0.96	1.51	1.45	1.98	0.89	0.88

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2005, BY WATER YEAR (WY)#

MEAN	194	105	72.1	48.6	36.9	32.6	98.2	544	340	303	385	325
MAX	490	264	176	112	74.8	72.0	319	1217	932	665	2147	773
(WY)	1987	1994	1986	1987	2001	1993	2005	1991	1992	1981	1967	2003
MIN	69.8	32.0	22.5	7.90	6.00	3.23	19.1	147	99.2	85.0	124	107
(WY)	1967	1967	1978	1970	1970	1967	1970	1998	1998	1997	1997	1966

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1966 - 2005#	
ANNUAL TOTAL	56822		87832			
ANNUAL MEAN	155		241		209	
HIGHEST ANNUAL MEAN					414	1967
LOWEST ANNUAL MEAN					103	1997
HIGHEST DAILY MEAN	1120	May 8	1800	Apr 28	12000	Aug 13 1967
LOWEST DAILY MEAN	a50	Nov 1	b35	Feb 10	c0.00	Mar 11 1967
ANNUAL SEVEN-DAY MINIMUM	50	Dec 23	35	Feb 10	0.00	Mar 11 1967
MAXIMUM PEAK FLOW			d	Apr 28	f17000	Aug 13 1967
MAXIMUM PEAK STAGE			g22.53	Apr 28	31.95	Aug 13 1967
ANNUAL RUNOFF (AC-FT)	112700		174200		151700	
ANNUAL RUNOFF (CFSM)	0.417		0.647		0.563	
ANNUAL RUNOFF (INCHES)	5.68		8.78		7.65	
10 PERCENT EXCEEDS	380		619		480	
50 PERCENT EXCEEDS	100		95		120	
90 PERCENT EXCEEDS	60		40		25	

\# See Period of Record; partial years used in monthly statistics
a From Nov. 1-4 and Dec.23-31
b From Feb. 10 to Mar. 13
c From Mar. 11 to Apr. 15, 1967
d Not determined, occurred during period of backwater from ice, see highest daily mean
e Estimated
f From rating curve extended above 3,000 ft^3/s on basis of contracted-opening determination of peak flow
g Backwater from ice

15514000 CHENA RIVER AT FAIRBANKS

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

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

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	802	e350	e450	e360	e320	e260	e310	5970	1570	1910	2100	1420
2	826	e345	e450	e350	e320	e260	e310	5690	2000	2440	2040	1460
3	848	e340	e450	e350	e310	e270	e310	4850	4050	3900	1990	1500
4	851	e350	e430	e350	e300	e270	e310	4050	3810	3830	1940	1500
5	844	e360	e420	e350	e300	e270	e310	3610	3720	3590	1890	1490
6	833	e370	e410	e340	e290	e270	e320	3270	3500	3530	1880	1470
7	829	e380	e400	e340	e290	e270	e320	2950	3040	3520	1890	1440
8	824	e410	e390	e340	e280	e270	e320	2700	2660	3550	1920	1420
9	824	e440	e390	e340	e280	e270	e330	2600	2380	3900	1890	1440
10	815	e460	e400	e340	e280	e270	e340	2610	2170	3850	1840	1500
11	802	e500	e390	e340	e270	e270	e350	2630	2030	4100	1790	1540
12	790	e520	e390	e340	e270	e270	e360	2480	1930	4540	1740	1560
13	777	e530	e380	e330	e270	e270	e360	2330	1940	4210	1700	1550
14	770	e540	e380	e330	e270	e280	e360	2220	2060	3800	1670	1550
15	761	e530	e370	e330	e260	e280	e370	2230	2260	3460	1630	1570
16	756	e510	e370	e330	e260	e280	e370	2170	2190	3190	1590	1570
17	744	e480	e360	e330	e260	e290	e380	2190	2010	2980	1560	1570
18	e710	e470	e360	e330	e260	e290	e380	2340	2140	2920	1540	1550
19	e690	e470	e360	e330	e260	e290	e380	3930	2440	3190	1520	1540
20	e650	e490	e360	e330	e260	e290	e380	4670	2420	4280	1490	1520
21	e630	e500	e360	e330	e260	e290	e390	3650	3380	4510	1470	1520
22	e640	e500	e370	e330	e270	e280	e400	3010	4180	3920	1460	1570
23	e660	e490	e370	e330	e270	e280	e460	2610	3560	3500	1450	1640
24	e665	e480	e370	e330	e270	e290	e570	2330	3070	3170	1440	1740
25	e650	e470	e370	e330	e270	e290	e780	1970	2740	2930	1430	2020
26	e645	e450	e370	e330	e270	e290	e1300	1960	2490	2740	1430	3020
27	e640	e450	e360	e330	e270	e300	e2700	1850	2310	2580	1440	3860
28	e645	e450	e360	e320	e270	e300	e5000	1760	2170	2450	1430	3840
29	e580	e450	e360	e320	---	e300	5710	1690	2050	2340	1420	3530
30	e540	e450	e360	e320	---	e310	6170	1640	1950	2240	1410	3270
31	e450	---	e360	e320	---	e310	---	1600	---	2160	1410	---
TOTAL	22491	13535	11920	10370	7760	8730	30350	89560	78220	103230	51400	56170
MEAN	726	451	385	335	277	282	1012	2889	2607	3330	1658	1872
MAX	851	540	450	360	320	310	6170	5970	4180	4540	2100	3860
MIN	450	340	360	320	260	260	310	1600	1570	1910	1410	1420
MED	756	465	370	330	270	280	370	2600	2350	3500	1590	1550
AC-FT	44610	26850	23640	20570	15390	17320	60200	177600	155100	204800	102000	111400
CFSM	0.36	0.23	0.19	0.17	0.14	0.14	0.51	1.45	1.31	1.67	0.83	0.94
IN.	0.42	0.25	0.22	0.19	0.14	0.16	0.57	1.67	1.46	1.92	0.96	1.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1948 - 2005, BY WATER YEAR (WY)#

MEAN	1200	599	453	347	287	264	488	3601	2521	2057	2478	2185
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

\# See Period of Record
e Estimated

15514000 CHENA RIVER AT FAIRBANKS—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1948 - 2005#	
ANNUAL TOTAL	347081		483736			
ANNUAL MEAN	948		1325		1360	
HIGHEST ANNUAL MEAN					2603	1962
LOWEST ANNUAL MEAN					713	1958
HIGHEST DAILY MEAN	6350	May 9	6170	Apr 30	64600	Aug 15 1967
LOWEST DAILY MEAN	a330	Mar 30	b260	Feb 15	c120	Feb 1 1953
ANNUAL SEVEN-DAY MINIMUM	330	Mar 30	260	Feb 15	120	Feb 1 1953
MAXIMUM PEAK FLOW			6300	Apr 30	74400	Aug 15 1967
MAXIMUM PEAK STAGE			6.53	Apr 30	d18.82	Aug 15 1967
INSTANTANEOUS LOW FLOW			260	Feb 15	260	Feb 15 2005
ANNUAL RUNOFF (AC-FT)	688400		959500		985100	
ANNUAL RUNOFF (CFSM)	0.475		0.664		0.682	
ANNUAL RUNOFF (INCHES)	6.47		9.02		9.26	
10 PERCENT EXCEEDS	2220		3480		3080	
50 PERCENT EXCEEDS	700		645		725	
90 PERCENT EXCEEDS	360		280		240	

\# See Period of Record
a Mar. 30 to Apr. 5
b Feb. 15-21, and Mar. 1-2
c Monthly means published for Feb. 1953 and Mar. 1958
d Site then in use

15515060 MARGUERITE CREEK ABOVE EMMA CREEK NEAR HEALY

LOCATION.--Lat 64°00'32", long 148°43'33", in NE$^1/_4$ sec. 33, T. 10 S., R. 6 W., (Fairbanks A-4 quad), Hydrologic Unit 19040507, on left bank 1200 ft upstream of mouth of Emma Cr, 12.6 mi northeast of Healy.

DRAINAGE AREA.--15.2 mi^2.

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

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

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

EXTREMES FOR CURRENT YEAR.--

Water year 2004--Maximum discharge for period June through September, 51 ft^3/s, August 1, 2004, gage height 24.81 ft; minimum not determined, occurs during winter.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	---	8.1	30	6.2
2	---	---	---	---	---	---	---	---	---	8.0	20	6.4
3	---	---	---	---	---	---	---	---	---	8.7	12	6.0
4	---	---	---	---	---	---	---	---	---	8.2	9.8	5.7
5	---	---	---	---	---	---	---	---	---	9.1	8.9	5.7
6	---	---	---	---	---	---	---	---	---	13	8.1	5.4
7	---	---	---	---	---	---	---	---	---	10	7.4	5.6
8	---	---	---	---	---	---	---	---	---	9.5	6.9	5.4
9	---	---	---	---	---	---	---	---	---	9.1	6.5	5.4
10	---	---	---	---	---	---	---	---	---	9.6	6.5	5.4
11	---	---	---	---	---	---	---	---	---	8.3	6.5	5.4
12	---	---	---	---	---	---	---	---	---	7.6	6.4	5.3
13	---	---	---	---	---	---	---	---	---	7.1	6.0	6.2
14	---	---	---	---	---	---	---	---	---	6.9	5.8	6.6
15	---	---	---	---	---	---	---	---	---	7.6	5.9	6.5
16	---	---	---	---	---	---	---	---	---	9.5	5.8	6.0
17	---	---	---	---	---	---	---	---	---	7.4	5.8	6.3
18	---	---	---	---	---	---	---	---	---	6.6	5.8	8.6
19	---	---	---	---	---	---	---	---	---	6.6	5.8	7.4
20	---	---	---	---	---	---	---	---	---	7.3	5.8	7.5
21	---	---	---	---	---	---	---	---	e8.8	6.7	5.9	8.3
22	---	---	---	---	---	---	---	---	8.7	6.2	5.9	7.7
23	---	---	---	---	---	‡5.1	---	---	8.4	8.4	5.8	9.2
24	---	---	---	---	---	---	---	---	8.1	8.8	5.9	8.8
25	---	---	---	---	---	‡5.8	---	---	7.9	7.2	6.0	e8.4
26	---	---	---	---	---	---	---	---	7.8	6.7	6.5	e8.2
27	---	---	---	---	---	---	---	---	7.6	6.4	6.5	8.3
28	---	---	---	---	---	---	---	---	7.6	6.4	6.4	8.4
29	---	---	---	---	---	---	---	---	7.7	7.0	6.3	e8.2
30	---	---	---	---	---	---	---	---	7.8	7.6	6.2	e7.8
31	---	---	---	---	---	---	---	---	---	6.9	6.1	---
TOTAL	---	---	---	---	---	---	---	---	---	246.5	243.2	206.3
MEAN	---	---	---	---	---	---	---	---	---	7.95	7.85	6.88
MAX	---	---	---	---	---	---	---	---	---	13	30	9.2
MIN	---	---	---	---	---	---	---	---	---	6.2	5.8	5.3
AC-FT	---	---	---	---	---	---	---	---	---	489	482	409
CFSM	---	---	---	---	---	---	---	---	---	0.52	0.52	0.45
IN.	---	---	---	---	---	---	---	---	---	0.60	0.59	0.50

‡ Result of discharge measurement
e Estimated

15515060 MARGUERITE CREEK ABOVE EMMA CREEK NEAR HEALY—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

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

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

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

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

\# See Period of Record, partial year used in monthly statistics
a From Apr. 17-21
b Not determined, occurred during period of backwater from ice and snow, see highest daily mean
c Backwater from snow and ice
e Estimated

15515060 MARGUERITE CREEK ABOVE EMMA CREEK NEAR HEALY—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2004 to current year.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Sampler type, code (84164)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)
JUN													
21...	1702	9	9	22.4	24.45	20	10	3044	18.8	12.8	16	.86	68
JUL													
21...	1420	9	9	21.7	24.34	17	10	3044	18.9	10.8	10	.46	58

15515080 EMMA CREEK CREEK NEAR HEALY

LOCATION.--Lat 64°00'42", long 148°43'31", in SE$^1/_4$ sec. 28, T. 10 S., R. 6 W., (Fairbanks A-4 quad), Hydrologic Unit 19040507, on right bank 70 ft upstream of mouth, 13.1 mi northeast of Healy.

DRAINAGE AREA.--5.80 mi^2.

PERIOD OF RECORD.--October 2004 to September 2005.

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

REMARKS.--Records poor.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 18 ft^3/s, April 30, gage height 10.60 ft from floodmark; minimum discharge 1.9 cfs, August 27-28, gage height, 10.04 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e4.0	e3.6	e3.3	e2.9	e2.3	e2.8	e2.8	e16	4.0	2.9	4.6	3.3
2	e4.5	e3.6	e3.3	e2.9	e2.3	e2.8	e2.8	e12	3.2	2.9	4.3	2.9
3	e5.0	e3.5	e3.2	e2.9	e2.3	e2.8	e2.8	e10	3.7	2.7	4.1	2.6
4	e6.0	e3.5	e3.2	e2.9	e2.3	e2.8	e2.8	e9.0	4.7	3.8	4.5	2.7
5	e5.5	e3.6	e3.2	e2.9	e2.3	e2.8	e2.8	e8.0	4.5	4.2	4.9	3.2
6	e5.0	e3.6	e3.2	e2.8	e2.3	e2.8	e2.8	e7.0	3.8	3.4	4.6	2.8
7	e4.6	e3.7	e3.2	e2.8	e2.3	e2.8	e2.8	e8.0	3.4	4.5	4.2	4.3
8	e4.4	e3.7	e3.2	e2.8	e2.3	e2.8	e2.8	e7.0	2.8	4.1	4.3	7.9
9	e5.2	e3.8	e3.2	e2.8	e2.4	e2.8	e2.8	e6.4	2.6	e8.0	4.2	5.8
10	e4.6	e3.8	e3.2	e2.8	e2.4	e2.8	e2.8	e6.0	2.3	e7.0	4.1	5.8
11	e4.4	e3.7	e3.1	e2.8	e2.5	e2.8	e2.8	e5.6	2.4	e6.0	4.0	5.7
12	e4.3	e3.7	e3.1	e2.8	e2.5	e2.8	e2.8	e5.3	2.7	e5.5	e3.9	5.9
13	e4.2	e3.6	e3.1	e2.8	e2.5	e2.8	e2.8	e5.1	3.6	e5.2	e3.9	5.4
14	e4.1	e3.6	e3.1	e2.7	e2.6	e2.8	e2.8	e4.9	3.2	e5.0	e3.8	5.1
15	e4.0	e3.6	e3.1	e2.7	e2.6	e2.8	e2.8	e6.0	3.0	e4.8	e3.8	4.8
16	e4.0	e3.5	e3.1	e2.7	e2.7	e2.8	e2.8	e6.5	3.5	e4.6	e3.7	4.7
17	e3.9	e3.5	e3.1	e2.6	e2.7	e2.8	e2.8	e7.0	5.3	e4.5	3.3	4.8
18	e3.9	e3.5	e3.1	e2.6	e2.8	e2.8	e2.8	e8.0	4.7	e6.5	3.4	4.7
19	e3.9	e3.5	e3.0	e2.6	e2.8	e2.8	e2.8	e6.0	4.0	e6.2	3.1	6.6
20	e3.9	e3.5	e3.0	e2.5	e2.8	e2.8	e2.8	e4.5	6.2	e5.7	2.9	6.7
21	e4.0	e3.5	e3.0	e2.5	e2.8	e2.8	e2.9	4.3	5.0	e5.1	3.1	6.1
22	e4.0	e3.4	e3.0	e2.5	e2.8	e2.8	e3.0	4.9	4.6	4.5	3.0	6.2
23	e4.0	e3.4	e3.0	e2.5	e2.8	e2.8	e4.0	5.7	4.7	4.3	2.5	6.0
24	e4.1	e3.4	e3.0	e2.5	e2.8	e2.8	e5.2	4.3	3.7	4.8	2.4	6.1
25	e4.2	e3.4	e3.0	e2.5	e2.8	e2.8	e7.4	3.7	4.0	4.5	2.2	5.1
26	e4.2	e3.4	e3.0	e2.5	e2.8	e2.8	e10	3.5	3.8	4.3	2.2	4.9
27	e4.1	e3.4	e3.0	e2.5	e2.8	e2.8	e13	3.3	3.2	4.3	2.1	4.7
28	e4.0	e3.3	e2.9	e2.4	e2.8	e2.8	e15	3.1	3.0	4.0	2.0	5.0
29	e3.9	e3.3	e2.9	e2.4	---	e2.8	e17	3.0	2.8	3.9	2.2	4.8
30	e3.8	e3.3	e2.9	e2.4	---	e2.8	e18	2.8	2.9	6.0	2.9	4.4
31	e3.7	---	e2.9	e2.4	---	e2.8	---	3.8	---	4.9	3.5	---
TOTAL	133.4	105.9	95.6	82.4	72.1	86.8	151.5	190.7	111.3	148.1	107.7	149.0
MEAN	4.30	3.53	3.08	2.66	2.58	2.80	5.05	6.15	3.71	4.78	3.47	4.97
MAX	6.0	3.8	3.3	2.9	2.8	2.8	18	16	6.2	8.0	4.9	7.9
MIN	3.7	3.3	2.9	2.4	2.3	2.8	2.8	2.8	2.3	2.7	2.0	2.6
AC-FT	265	210	190	163	143	172	301	378	221	294	214	296
CFSM	0.74	0.61	0.53	0.46	0.44	0.48	0.87	1.06	0.64	0.82	0.60	0.86
IN.	0.86	0.68	0.61	0.53	0.46	0.56	0.97	1.22	0.71	0.95	0.69	0.96

e Estimated

15515500 TANANA RIVER AT NENANA

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

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

WATER-DISCHARGE RECORDS

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

REVISED RECORDS.--WSP 2136: Drainage area.

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17700	e9200	e7400	e6200	e6000	e6000	e7600	e46400	42600	65600	61400	42400
2	17500	e8400	e7400	e6200	e6000	e6000	e7700	e48000	43900	68100	58100	41000
3	17700	e8000	e7300	e6200	e6000	e6000	e7800	e48000	46800	69100	55900	38700
4	18000	e7600	e7300	e6100	e6000	e6000	e7800	e45600	49000	69900	55500	36300
5	18400	e7500	e7200	e6100	e6000	e6000	e7900	e45600	50500	70200	56000	35200
6	18500	e7600	e7200	e6100	e6000	e6000	e8000	e44000	53300	71100	55900	35800
7	18300	e8000	e7100	e6100	e6000	e6000	e8100	e36800	52600	72800	56200	38500
8	18000	e8400	e7100	e6100	e6000	e6000	e8200	e36800	50400	74300	56300	42600
9	17900	e8800	e7000	e6100	e6000	e6000	e8300	e36800	48800	75200	55600	44400
10	17600	e9200	e6900	e6100	e6000	e6000	e8400	e36000	48000	75600	55600	44100
11	17400	e9600	e6900	e6100	e6000	e6000	e8500	e36000	48100	75200	57400	44400
12	e17500	e9800	e6800	e6100	e6000	e6000	e8600	36400	50300	75500	60300	45200
13	e17500	e9800	e6800	e6000	e6000	e6000	e8800	35900	51500	76800	62500	44400
14	e17500	e9600	e6700	e6000	e6000	e6000	e8900	35700	55700	76400	64300	43700
15	e17500	e9400	e6600	e6000	e6000	e6000	e9000	37000	62600	74100	65700	42800
16	e17500	e9200	e6600	e6000	e6000	e6000	e9100	39400	67400	72800	66300	40500
17	e17000	e9000	e6600	e6000	e6000	e6000	e9200	40300	68900	73600	65500	38600
18	e17000	e8800	e6500	e6000	e6000	e6000	e9300	40600	69800	73700	64500	38700
19	e16500	e8600	e6500	e6000	e6000	e6000	e9600	39400	71300	75800	63600	39500
20	e16000	e8400	e6500	e6000	e6000	e6100	e9700	44900	73800	79100	60100	39800
21	e16000	e8200	e6500	e6000	e6000	e6100	e9800	43500	77400	78900	55500	38800
22	e15000	e8100	e6400	e6000	e6000	e6200	e10000	40000	79400	74900	54100	37300
23	e15000	e8000	e6400	e6000	e6000	e6200	e10200	39500	75500	70800	53900	36700
24	e15000	e7900	e6400	e6000	e6000	e6300	e10500	38300	72300	68500	52700	37000
25	e14500	e7800	e6400	e6000	e6000	e6300	e11000	37400	70300	66800	53300	39000
26	e14500	e7800	e6300	e6000	e6000	e6500	e12000	36600	68200	65800	55100	41400
27	e14500	e7700	e6300	e6000	e6000	e6700	e13000	36800	66700	65200	51600	42400
28	e14500	e7600	e6300	e6000	e6000	e7000	e17000	37000	65700	65200	47600	41200
29	e14000	e7600	e6300	e6000	---	e7200	e30000	38100	65500	64700	45700	39300
30	e13500	e7500	e6300	e6000	---	e7400	e44500	39400	64900	63200	44200	37500
31	e11500	---	e6300	e6000	---	e7500	---	40800	---	63100	43100	---
TOTAL	509000	253100	208300	187500	168000	193500	338500	1237000	1811200	2212000	1753500	1207200
MEAN	16420	8437	6719	6048	6000	6242	11280	39900	60370	71350	56560	40240
MAX	18500	9800	7400	6200	6000	7500	44500	48000	79400	79100	66300	45200
MIN	11500	7500	6300	6000	6000	6000	7600	35700	42600	63100	43100	35200
MED	17400	8300	6600	6000	6000	6000	9050	39400	63800	72800	55900	39600
AC-FT	1010000	502000	413200	371900	333200	383800	671400	2454000	3593000	4388000	3478000	2394000
CFSM	0.64	0.33	0.26	0.24	0.23	0.24	0.44	1.56	2.36	2.79	2.21	1.57
IN.	0.74	0.37	0.30	0.27	0.24	0.28	0.49	1.80	2.63	3.21	2.55	1.75

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2005, BY WATER YEAR (WY)#

MEAN	17270	9451	7486	6786	6567	6502	8857	31380	47770	60420	56960	33680
MAX	26870	14460	10770	9065	8171	8161	15090	62210	87390	76770	98210	57690
(WY)	2001	2003	1986	1986	1986	1993	1995	1963	1962	1988	1967	1990
MIN	11420	5517	4532	4694	4421	4071	5870	16030	29750	44920	41510	21710
(WY)	1977	1977	1977	1977	1974	1974	1974	1964	1970	1996	1996	1976

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

15515500 TANANA RIVER AT NENANA—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1962 - 2005 #	
ANNUAL TOTAL	9459700		10078800			
ANNUAL MEAN	25850		27610		24350	
HIGHEST ANNUAL MEAN					29310	1967
LOWEST ANNUAL MEAN					19530	1970
HIGHEST DAILY MEAN	70800	Jul 1	79400	Jun 22	183000	Aug 18 1967
LOWEST DAILY MEAN	a6300	Dec 26	b6000	Jan 13	c4000	Mar 6 1974
ANNUAL SEVEN-DAY MINIMUM	6310	Dec 25	6000	Jan 13	4000	Mar 6 1974
MAXIMUM PEAK FLOW			80200	Jul 20	186000	Aug 18 1967
MAXIMUM PEAK STAGE			11.08	Jul 20	d18.90	Aug 18 1967
ANNUAL RUNOFF (AC-FT)	18760000		19990000		17640000	
ANNUAL RUNOFF (CFSM)	1.01		1.08		0.951	
ANNUAL RUNOFF (INCHES)	13.75		14.65		12.92	
10 PERCENT EXCEEDS	61100		66500		58500	
50 PERCENT EXCEEDS	15000		14500		12000	
90 PERCENT EXCEEDS	6600		6000		6200	

\# See Period of Record; partial years used in monthly statistics
a From Dec. 26 to Dec. 31
b From Jan. 13 to Mar. 13
c From Mar. 6 to Mar. 20, 1974
d At site then in use

15515500 TANANA RIVER AT NENANA—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-57, 1963-64, 1966-75, 1978-1995, and 2001 to August 2005 (discontinued).

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Location in X-sect. looking dwnstrm ft from l bank (00009)	Sample location, cross section ft from rt bank (72103)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
MAR									
31...	1820	--	205.0	304	7.8	.0	747	10.0	70
31...	1822	--	345.0	303	7.8	.0	747	10.1	71
31...	1824	--	485.0	308	7.8	.0	747	10.1	71
31...	1826	--	655.0	300	7.7	.0	747	10.1	71
31...	1828	--	735.0	302	7.5	.0	747	10.1	71
MAY									
10...	1820	--	110.0	218	7.9	11.8	745	9.9	94
10...	1822	--	160.0	217	7.3	11.8	745	10.1	96
10...	1824	--	250.0	217	7.5	11.9	745	10.0	95
10...	1826	--	330.0	217	7.3	11.9	745	9.9	94
10...	1828	--	440.0	217	7.4	11.9	745	9.8	93
18...	1650	--	200.0	222	7.8	10.4	--	10.1	--
18...	1652	--	280.0	221	7.8	10.4	--	10.1	--
18...	1654	--	380.0	222	7.8	10.4	--	10.1	--
18...	1656	--	470.0	222	7.8	10.4	--	10.1	--
18...	1658	--	585.0	223	7.7	10.4	--	10.2	--
27...	1520	--	189.0	269	8.0	13.9	--	10.4	--
27...	1522	--	298.0	268	7.9	13.8	--	10.2	--
27...	1524	--	365.0	268	7.9	13.8	--	10.3	--
27...	1526	--	428.0	267	7.9	13.8	--	10.3	--
27...	1528	--	507.0	267	7.9	13.8	--	10.4	--
JUL									
12...	1450	--	279.0	252	8.0	15.8	758	9.3	94
12...	1452	--	379.0	252	7.9	15.8	758	9.3	94
12...	1454	--	489.0	251	7.9	15.7	758	9.3	94
12...	1456	--	652.0	255	7.9	15.6	758	9.2	93
12...	1458	--	768.0	256	7.9	15.5	758	9.3	94
AUG									
05...	1510	--	296.0	259	7.9	14.2	--	10.3	--
05...	1512	--	379.0	258	7.9	14.1	--	10.4	--
05...	1514	--	453.0	256	7.9	14.2	--	10.4	--
05...	1516	--	519.0	252	7.9	14.1	--	10.5	--
05...	1518	--	587.0	258	7.9	14.1	--	10.6	--
30...	1430	--	123.0	264	7.9	10.8	756	10.3	93
30...	1432	--	155.0	264	7.9	10.9	756	10.7	98
30...	1434	--	211.0	263	7.9	10.9	756	10.7	98
30...	1436	--	285.0	263	7.9	10.9	756	10.7	98
30...	1438	--	416.0	263	7.9	10.9	756	10.7	98

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sam-pler type, code (84164)	Type of sample related QA data, code (99111)	Type of repli-cate, code (99105)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH water, unfl-trd field, std units (00400)	Temper-ature, air, deg C (00020)
MAR													
31...	1800	9	7	840	--	7500	20	3011	30	10	303	7.8	25.0
MAY													
10...	1800	9	9	654	5.96	36200	20	3056	110	--	217	7.4	18.0
18...	1630	9	9	900	7.27	40600	20	3055	110	--	222	7.8	--
27...	1500	9	9	632	6.83	34800	20	3055	110	--	268	7.9	--
JUL													
12...	1430	9	9	829	10.58	759000	20	3055	30	--	253	7.9	--
AUG													
05...	1450	9	7	703	8.41	54000	20	3055	30	10	257	7.9	--
30...	1410	9	9	611	6.92	43900	20	3055	110	--	264	7.9	--

15515500 TANANA RIVER AT NENANA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Temperature, water deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorbance, 254 nm, wat flt units/cm (50624)	UV absorbance, 280 nm, wat flt units/cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bocarbonate, wat flt incrm. titr., field, mg/L (00453)
MAR													
31...	.0	7	.0254	.0191	747	10.1	71	160	47.0	10.1	4.45	2.34	156
MAY													
10...	11.9	128	.2391	.1774	745	9.9	94	110	30.3	7.15	3.70	1.76	93
18...	10.4	211	.1377	.1032	--	10.1	--	110	29.8	7.86	3.57	1.77	73
27...	13.8	157	.0826	.0607	--	10.3	--	130	34.7	10.2	4.50	2.13	109
JUL													
12...	15.7	648	.0893	.0655	758	9.3	94	120	33.4	7.91	3.81	2.04	87
AUG													
05...	14.1	388	.0847	.0617	--	10.4	--	120	35.6	7.91	4.12	1.88	100
30...	10.9	344	.0480	.0345	--	10.7	--	130	38.7	8.88	4.81	2.4	105

Date	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum on constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N water, fltrd, mg/L as N (00623)
MAR													
31...	.0	128	35.3	1.26	.14	16.1	184	195	.003	.164	.053	.1	.1
MAY													
10...	.0	76	30.8	1.82	.10	9.14	152	132	.003	.148	.010	.5	.2
18...	.0	60	38.0	1.48	E.10	8.36	159	128	E.001	.188	E.009	.4	.2
27...	.0	89	46.3	1.91	.10	9.57	170	165	E.001	.142	E.009	.3	.2
JUL													
12...	.0	72	47.0	1.23	.10	7.10	154	146	E.001	.112	E.006	.6	.2
AUG													
05...	.0	82	46.7	1.34	.11	8.11	164	156	E.001	.125	E.005	.4	.1
30...	.0	86	50.0	1.75	.12	8.77	172	167	E.001	.089	.012	.4	.6

E Estimated

15515500 TANANA RIVER AT NENANA—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Phos-pho-rus, water, unfl-trd mg/L (00665)	Phos-pho-rus, water fltrd mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Alumi-num, water, fltrd, ug/L (01106)	Anti-mony water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Bar-ium, water, fltrd, ug/L (01005)	Beryl-lium water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cad-mium water, fltrd, ug/L (01025)	Chro-mium, wter fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Cop-per, water, fltrd, ug/L (01040)
MAR													
31...	.028	<.004	E.003	E1.6	E.2	.5	50.0	<.06	18	E.03	<.08	.247	1.5
MAY													
10...	.60	.010	E.004	18.4	.2	1.1	33.7	<.06	28	E.03	<.8	.164	4.3
18...	.71	.005	<.006	16.2	.2	.9	32.8	<.06	18	<.04	<.8	.184	4.2
27...	.47	.49	.494	14.0	.3	1.0	32.6	<.06	29	<.04	<.8	.151	2.2
JUL													
12...	1.19	.005	<.006	14.1	.3	1.1	35.7	<.06	26	E.02	<.8	.104	2.2
AUG													
05...	.76	E.003	<.006	14.0	.3	1.0	31.0	<.06	22	<.04	<.8	.109	2.3
30...	.71	E.003	<.006	14.9	.3	1.0	35.8	<.06	27	.04	<.8	.129	1.6

Date	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lith-ium water, fltrd, ug/L (01130)	Manga-nese, water, fltrd, ug/L (01056)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Sele-nium, water, fltrd, ug/L (01145)	Sil-ver, water, fltrd, ug/L (01075)	Stron-tium, water, fltrd, ug/L (01080)	Vana-dium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Ura-nium natu-ral water, fltrd, ug/L (22703)	Organic car-bon, water, fltrd, mg/L (00681)
MAR													
31...	12	<.08	2.7	88.0	1.2	3.31	.5	<.20	222	1.02	1.2	.84	1.0
MAY													
10...	88	.09	3.4	16.2	.9	1.85	.5	<.20	148	.71	1.3	.73	6.9
18...	41	E.06	3.4	15.5	.9	2.50	.6	<.20	132	.58	4.0	.80	3.8
27...	20	<.08	5.1	10.5	1.1	2.69	.6	<.20	168	.52	E.5	.79	3.8
JUL													
12...	8	E.05	4.3	5.0	1.2	2.29	.8	<.20	151	.57	E.5	.81	4.4
AUG													
05...	14	<.08	3.9	7.1	1.2	1.54	.6	<.20	159	1.18	E.5	.78	2.9
30...	E3	<.08	5.3	22.2	1.3	1.40	.6	<.20	182	1.75	E.6	.93	2.0

Date	Inor-ganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Total carbon, suspnd sedimnt total, mg/L (00694)	Partic-ulate nitro-gen, susp, water, mg/L (49570)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Suspnd. sedi-ment, sieve diametr percent <.063mm (70331)
MAR							
31...	<.12	.318	.337	<.022	20	405	68
MAY							
10...	.434	4.54	4.97	.291	787	76900	43
18...	.360	4.07	4.43	.257	930	102000	52
27...	.329	2.33	2.66	.164	646	60700	53
JUL							
12...	1.53	5.31	6.84	.360	2210	4530000	70
AUG							
05...	.547	2.11	2.66	.192	1600	233000	50
30...	.317	2.00	2.31	.137	1090	129000	66

E Estimated

15518040 NENANA RIVER AT HEALY

LOCATION.--Lat 63°51'15", long 148°57'20", in SE$^1/_4$ sec. 20, T. 12 S., R. 7 W. (Healy D-4 quad), Denali Borough, Hydrologic Unit 19040508, on left bank upstream side of Healy Spur railroad bridge, 0.3 mi east of Parks Hwy in Healy, 0.4 mi downstream from Healy Creek, and 4 mi upstream of Lignite Creek.

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

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

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

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

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

EXTREMES FOR CURRENT PERIOD.-- Maximum discharge 20,800 ft^3/s, June 19, gage-height, 13.20 ft; minimum discharge not determined, occurred during the winter.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2200	---	---	---	---	---	---	e2700	13500	11400	6560	4770
2	1970	---	---	---	---	---	---	e2900	12900	11300	6040	4250
3	2250	---	---	---	---	---	---	e3100	12100	10900	5950	3970
4	2780	---	---	---	---	---	---	e3300	12200	10800	6050	4380
5	2720	---	---	---	---	---	---	3520	12900	11100	6400	4940
6	2520	---	---	---	---	---	---	3840	14100	10800	6620	6060
7	2380	---	---	---	---	---	---	4430	14000	10800	6510	7850
8	2290	---	---	---	---	---	---	5250	14300	10900	6350	8300
9	2220	---	---	---	---	---	---	5610	14300	10800	6490	7380
10	2160	---	---	---	---	---	---	6490	14300	10600	6910	8630
11	2110	---	---	---	---	---	---	7320	14600	10600	7540	8860
12	2080	---	---	---	---	---	---	7840	14500	10600	7860	8410
13	2060	---	---	---	---	---	---	8250	14800	9960	8070	8530
14	2130	---	---	---	---	---	---	9540	17100	9260	8020	7790
15	2170	---	---	---	---	---	---	10900	17800	9130	7760	7170
16	2070	---	---	---	---	---	---	10900	17800	9430	7450	6810
17	1910	---	---	---	---	---	---	10400	18900	9410	6820	6790
18	e1400	---	---	---	---	---	---	9770	19400	9710	6680	7030
19	e1300	---	---	---	---	---	---	9210	19900	9430	5840	7130
20	e1200	---	---	---	---	---	---	9390	19300	9180	5220	6680
21	e1100	---	---	---	---	---	---	10200	14700	8500	5280	6270
22	e1000	---	---	---	---	---	---	11300	12500	7800	5790	6040
23	e1000	---	---	---	---	---	---	11700	12200	7700	5540	6410
24	e950	---	---	---	---	---	---	11900	11300	7690	6200	8070
25	e950	---	---	---	---	---	---	11900	11200	7510	6470	8810
26	e900	---	---	---	---	---	---	11900	11000	7800	5810	8060
27	e900	---	---	---	---	---	---	12000	11200	7860	5260	7460
28	e850	---	---	---	---	---	---	13000	11300	7600	4880	7020
29	e850	---	---	---	---	---	---	13100	11200	7250	4800	6730
30	e800	---	---	---	---	---	---	13400	11300	7750	4940	6400
31	e800	---	---	---	---	---	---	13800	---	7790	4880	---
TOTAL	52020	---	---	---	---	---	---	268860	426600	291360	194990	207000
MEAN	1678	---	---	---	---	---	---	8673	14220	9399	6290	6900
MAX	2780	---	---	---	---	---	---	13800	19900	11400	8070	8860
MIN	800	---	---	---	---	---	---	2700	11000	7250	4800	3970
AC-FT	103200	---	---	---	---	---	---	533300	846200	577900	386800	410600
CFSM	0.80	---	---	---	---	---	---	4.13	6.77	4.48	3.00	3.29
IN.	0.92	---	---	---	---	---	---	4.76	7.56	5.16	3.45	3.67

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)#

MEAN	3263	1407	1123	965	925	826	828	6446	11340	10180	8304	6802
MAX	4197	1407	1123	965	925	826	828	8945	14370	13410	11230	13440
(WY)	2004	1991	1991	1991	1991	1991	1991	1990	1990	2003	1990	1990
MIN	1678	1407	1123	965	925	826	828	2811	8150	7045	6210	2549
(WY)	2005	1991	1991	1991	1991	1991	1991	2003	2004	2004	2004	2004

\# See Period of Record; partial years were used in monthly statistics and break in record
e Estimated

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 40 ft downstream from bridge on Dalton Highway, 1.1 mi upstream from mouth and 0.1 mi north of Coldfoot.

DRAINAGE AREA.--73.4 mi^2.

WATER-DISCHARGE RECORDS

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e19	e4.2	e0.00	e0.00	e0.00	e0.00	e0.00	e20	333	93	83	98
2	e20	e3.8	e0.00	e0.00	e0.00	e0.00	e0.00	e23	290	91	79	92
3	e22	e3.4	e0.00	e0.00	e0.00	e0.00	e0.00	e27	274	87	76	91
4	e21	e2.8	e0.00	e0.00	e0.00	e0.00	e0.00	e34	254	92	73	88
5	e20	e2.4	e0.00	e0.00	e0.00	e0.00	e0.00	e42	253	90	71	90
6	e18	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e54	246	88	70	107
7	e16	e1.6	e0.00	e0.00	e0.00	e0.00	e0.00	e68	231	87	70	107
8	e15	e1.2	e0.00	e0.00	e0.00	e0.00	e0.00	e100	220	83	69	98
9	e14	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e160	212	85	66	95
10	e13	e0.8	e0.00	e0.00	e0.00	e0.00	e0.00	e290	207	112	64	98
11	e13	e0.8	e0.00	e0.00	e0.00	e0.00	e0.00	487	206	263	63	98
12	e12	e0.6	e0.00	e0.00	e0.00	e0.00	e0.00	509	206	455	62	100
13	e12	e0.6	e0.00	e0.00	e0.00	e0.00	e0.00	546	211	371	61	121
14	e11	e0.6	e0.00	e0.00	e0.00	e0.00	e0.00	512	196	260	60	156
15	e11	e0.4	e0.00	e0.00	e0.00	e0.00	e0.00	803	195	205	59	161
16	e10	e0.4	e0.00	e0.00	e0.00	e0.00	e0.00	1440	188	171	58	149
17	e10	e0.4	e0.00	e0.00	e0.00	e0.00	e0.00	1020	175	160	56	139
18	e9.6	e0.2	e0.00	e0.00	e0.00	e0.00	e0.00	1040	160	156	55	132
19	e9.4	e0.2	e0.00	e0.00	e0.00	e0.00	e0.00	816	148	177	55	124
20	e9.0	e0.2	e0.00	e0.00	e0.00	e0.00	e0.00	639	137	161	55	119
21	e8.8	e0.00	e0.00	e0.00	e0.00	e0.00	e1.0	572	130	142	54	116
22	e8.6	e0.00	e0.00	e0.00	e0.00	e0.00	e2.0	503	123	130	53	118
23	e8.2	e0.00	e0.00	e0.00	e0.00	e0.00	e3.0	427	116	122	55	168
24	e7.8	e0.00	e0.00	e0.00	e0.00	e0.00	e4.0	404	111	113	78	207
25	e7.4	e0.00	e0.00	e0.00	e0.00	e0.00	e6.0	392	107	105	85	177
26	e7.0	e0.00	e0.00	e0.00	e0.00	e0.00	e8.0	367	102	99	92	185
27	e6.6	e0.00	e0.00	e0.00	e0.00	e0.00	e10	383	98	94	88	182
28	e6.0	e0.00	e0.00	e0.00	e0.00	e0.00	e13	389	95	90	83	163
29	e5.6	e0.00	e0.00	e0.00	---	e0.00	e15	350	93	87	79	147
30	e5.0	e0.00	e0.00	e0.00	---	e0.00	e18	343	91	83	76	136
31	e4.6	---	e0.00	e0.00	---	e0.00	---	376	---	81	89	---
TOTAL	360.6	27.60	0.00	0.00	0.00	0.00	80.00	13136	5408	4433	2137	3862
MEAN	11.6	0.92	0.00	0.00	0.00	0.00	2.67	424	180	143	68.9	129
MAX	22	4.2	0.00	0.00	0.00	0.00	18	1440	333	455	92	207
MIN	4.6	0.00	0.00	0.00	0.00	0.00	0.00	20	91	81	53	88
AC-FT	715	55	0.00	0.00	0.00	0.00	159	26060	10730	8790	4240	7660
CFSM	0.16	0.01	0.00	0.00	0.00	0.00	0.04	5.77	2.46	1.95	0.94	1.75
IN.	0.18	0.01	0.00	0.00	0.00	0.00	0.04	6.66	2.74	2.25	1.08	1.96

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1995 - 2005, BY WATER YEAR (WY)#

MEAN	51.9	15.3	6.73	2.84	1.70	1.32	2.52	219	207	104	172	143
MAX	107	31.1	17.3	12.1	9.07	7.13	9.32	424	319	184	435	234
(WY)	2004	2004	1999	1999	1999	1999	1998	2005	2003	1995	1998	2003
MIN	11.6	0.92	0.00	0.00	0.00	0.00	0.00	27.5	114	25.6	52.8	33.4
(WY)	2005	2005	2005	2005	2001	2001	2001	2003	2004	2004	2002	2004

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

15564879 SLATE CREEK AT COLDFOOT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1995 - 2005#	
ANNUAL TOTAL	13651.90		29444.20			
ANNUAL MEAN	37.3		80.7		73.0	
HIGHEST ANNUAL MEAN					93.4	2003
LOWEST ANNUAL MEAN					48.4	2004
HIGHEST DAILY MEAN	560	May 26	1440	May 16	a2850	May 26 1998
LOWEST DAILY MEAN	b0.00	Jan 9	c0.00	Nov 21	0.00	Jan 13 2001
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 9	0.00	Nov 21	0.00	Jan 13 2001
MAXIMUM PEAK FLOW			1720	May 16	d4930	May 26 1998
MAXIMUM PEAK STAGE			17.64	May 16	19.73	May 26 1998
ANNUAL RUNOFF (AC-FT)	27080		58400		52860	
ANNUAL RUNOFF (CFSM)	0.508		1.10		0.994	
ANNUAL RUNOFF (INCHES)	6.92		14.92		13.51	
10 PERCENT EXCEEDS	85		209		191	
50 PERCENT EXCEEDS	4.4		7.4		17	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

\# See Period of Record; partial year was used in monthly statistics
a Revised in 1999 from 2740 ft^3/s
b From Jan. 9 to Apr. 26
c From Nov. 21 to Apr. 20
d From rating curve extended above 2,190 ft^3/s on basis of slope-area measurement at discharge 4,700 ft3/s, gage height 19.6 ft, at previous site 60 ft downstream.

15564879 SLATE CREEK AT COLDFOOT—Continued

WATER-QUALITY RECORDS

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

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

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

REMARKS.--Record missing October 1 to May 10 due to probe frozen in ice or malfunctioning 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 May 26, June 5, July 19 and September 12. Variation within the cross sections was less than 0.2°C. The variation found between mean stream temperature and sensor temperature was less than 0.2°C.

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

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 14.0°C, June 28-29, and August 13; minimum, 0.0°C, on several days during winter and spring breakup.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
MAY								
26...	1009	64.0	5.0	15.24	381	10	2.9	18.2
26...	1010	64.0	15.0	15.24	381	10	3.0	18.2
26...	1011	64.0	25.0	15.24	381	10	2.9	18.2
26...	1012	64.0	35.0	15.24	381	10	2.9	18.2
26...	1013	64.0	45.0	15.24	381	10	3.0	18.2
26...	1014	64.0	55.0	15.24	381	10	2.9	18.2
JUN								
5...	1006	55.5	9.2	14.93	255	10	3.8	11.5
5...	1007	55.5	18.5	14.93	255	10	3.8	11.5
5...	1008	55.5	27.8	14.93	255	10	3.8	11.5
5...	1009	55.5	37.0	14.93	255	10	4.0	11.5
5...	1010	55.5	46.2	14.93	255	10	3.9	11.5
JUL								
19...	0923	55.5	51.0	14.75	188	10	8.4	13.6
19...	0924	55.5	41.0	14.75	188	10	8.4	13.6
19...	0925	55.5	31.0	14.75	188	10	8.4	13.6
19...	0927	55.5	21.0	14.75	188	10	8.4	13.6
19...	0928	55.5	11.0	14.75	188	10	8.4	13.6
19...	0930	55.5	1.0	14.75	188	10	8.4	13.6
SEP								
12...	1945	53.5	50.5	14.46	101	10	6.5	7.3
12...	1950	53.5	40.5	14.46	101	10	6.5	7.3
12...	1955	53.5	30.5	14.46	101	10	6.6	7.3
12...	2000	53.5	20.5	14.46	101	10	6.6	7.3
12...	2005	53.5	10.5	14.46	101	10	6.4	7.3

15564879 SLATE CREEK AT COLDFOOT—Continued

WATER TEMPERATURE, DEGREES CELSIUS, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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	---	---	---	---	---	---	---	---	---	1.0	0.0	---
12	---	---	---	---	---	---	---	---	---	1.5	0.0	0.5
13	---	---	---	---	---	---	---	---	---	1.5	0.0	0.5
14	---	---	---	---	---	---	---	---	---	1.5	0.0	0.5
15	---	---	---	---	---	---	---	---	---	1.0	0.0	0.5
16	---	---	---	---	---	---	---	---	---	1.5	0.0	0.5
17	---	---	---	---	---	---	---	---	---	2.0	0.0	0.5
18	---	---	---	---	---	---	---	---	---	1.5	0.5	1.0
19	---	---	---	---	---	---	---	---	---	4.0	0.0	2.0
20	---	---	---	---	---	---	---	---	---	4.5	0.5	2.5
21	---	---	---	---	---	---	---	---	---	5.0	1.0	3.0
22	---	---	---	---	---	---	---	---	---	5.0	1.5	3.0
23	---	---	---	---	---	---	---	---	---	6.0	0.5	3.5
24	---	---	---	---	---	---	---	---	---	7.5	1.0	4.0
25	---	---	---	---	---	---	---	---	---	8.0	1.0	4.5
26	---	---	---	---	---	---	---	---	---	6.0	1.5	4.0
27	---	---	---	---	---	---	---	---	---	8.0	3.0	5.0
28	---	---	---	---	---	---	---	---	---	7.5	2.0	5.0
29	---	---	---	---	---	---	---	---	---	8.0	3.5	5.5
30	---	---	---	---	---	---	---	---	---	8.0	3.0	5.0
31	---	---	---	---	---	---	---	---	---	8.0	2.5	5.0
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	7.5	3.5	5.0	11.5	8.5	10.5	11.5	8.0	9.5	6.5	4.5	5.5
2	5.0	3.0	4.0	12.0	8.5	10.0	12.5	7.5	10.0	6.5	4.0	5.0
3	8.5	2.5	5.0	12.5	8.5	10.5	12.5	7.0	9.5	6.5	5.0	5.5
4	7.5	3.0	5.5	11.0	9.0	9.5	12.5	7.0	10.0	7.0	5.0	6.0
5	8.5	3.5	5.5	12.5	7.5	10.0	10.5	7.0	9.0	7.0	5.0	6.0
6	8.5	3.5	6.0	11.0	8.0	9.5	9.5	8.5	9.0	7.5	5.0	6.0
7	9.5	3.5	6.5	13.5	7.0	10.0	9.0	8.0	8.5	8.0	4.5	6.5
8	8.0	3.5	6.0	11.0	8.0	9.0	10.5	8.0	9.0	7.5	5.5	6.5
9	9.5	4.5	7.0	9.5	8.5	9.0	13.5	8.5	10.5	5.5	3.0	4.5
10	12.5	5.5	8.5	9.0	8.0	8.5	13.0	8.0	10.5	7.0	5.0	6.0
11	11.0	5.5	8.5	8.5	6.5	7.5	12.0	8.5	10.5	8.0	6.0	6.5
12	12.5	6.0	8.5	7.0	5.5	6.0	13.5	8.5	10.5	7.0	6.0	6.5
13	12.5	6.0	9.0	10.5	5.5	7.5	14.0	8.5	11.0	6.5	5.0	5.5
14	13.0	7.0	9.5	11.0	6.0	8.5	13.5	9.5	11.5	7.0	5.0	6.0
15	12.5	6.0	9.0	13.0	6.0	9.5	13.5	9.0	11.0	7.0	5.0	6.0
16	11.5	6.5	9.0	12.5	7.5	10.0	13.5	8.5	11.0	7.5	5.0	6.0
17	13.0	6.5	9.5	11.0	8.0	9.5	13.0	8.5	11.0	7.5	5.5	6.0
18	11.5	6.0	8.5	11.5	8.0	10.0	11.0	7.5	9.0	6.5	4.5	5.5
19	10.5	6.0	8.0	13.0	8.0	10.0	10.0	6.0	8.5	6.5	4.5	5.5
20	12.5	6.0	9.0	12.5	8.0	10.0	10.0	6.0	8.0	5.5	5.0	5.5
21	12.0	6.5	9.5	13.5	6.5	9.5	10.0	8.5	9.0	5.5	4.0	5.0
22	12.5	6.5	9.0	13.0	7.0	10.0	10.5	8.5	9.0	5.0	4.0	4.5
23	10.0	6.5	8.5	13.5	7.5	10.5	9.5	8.0	8.5	5.0	3.5	4.5
24	10.5	6.0	8.5	13.5	8.5	10.5	10.0	8.0	9.0	4.5	2.5	3.5
25	11.0	6.0	8.5	13.5	7.5	10.5	9.5	8.0	8.5	5.0	3.5	4.0
26	12.0	6.5	9.5	13.0	7.5	10.5	8.5	6.5	7.5	4.5	3.0	4.0
27	13.5	7.5	10.5	13.0	7.5	10.0	9.5	5.5	7.0	3.0	1.5	2.0
28	14.0	8.0	11.0	13.5	8.0	10.5	9.0	6.5	7.5	3.0	0.5	1.5
29	14.0	9.0	11.5	13.0	8.0	10.5	9.5	6.5	8.0	2.0	1.0	1.5
30	13.0	9.0	11.0	12.0	7.5	10.0	9.5	6.5	8.0	2.0	1.0	1.5
31	---	---	---	12.0	8.0	10.0	8.0	5.0	6.0	---	---	---
MONTH	14.0	2.5	8.2	13.5	5.5	9.6	14.0	5.0	9.2	8.0	0.5	5.0

15565400 ANVIK RIVER NEAR ANVIK

LOCATION.--Lat 62°47'22", long 160°41'49", in NW¼ NW¼ SE¼ sec. 10, T.31 N., R.61 W. (Holy Cross D-4 quad), Hydrologic Unit 19040801, on the right bank, approximately 25 river mi upstream from mouth, 18 mi northwest of Anvik.

DRAINAGE AREA.-- 1420 mi^2.

WATER-DISCHARGE RECORDS

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	853	e1800	e630	e430	e360	e340	e320	e2400	5770	1880	657	1660
2	812	e1600	e620	e430	e360	e340	e320	e4000	7190	1770	638	1450
3	780	e1400	e610	e430	e360	e340	e320	e4200	7950	1650	623	1390
4	818	e1300	e600	e420	e360	e340	e320	e6000	6280	1560	618	1550
5	857	e1200	e590	e420	e360	e330	e320	e6300	5420	1480	617	1560
6	891	e1100	e570	e420	e350	e330	e320	e10000	4940	1410	621	1530
7	853	e1050	e560	e420	e350	e330	e320	e18000	4660	1330	617	1670
8	815	e1000	e560	e410	e350	e330	e320	e19500	4530	1280	638	1590
9	802	e970	e550	e410	e350	e330	e320	e17000	4400	1230	653	1530
10	830	e940	e550	e410	e350	e330	e320	e16500	4170	1200	619	2300
11	955	e910	e540	e410	e350	e330	e320	e17000	4130	1170	589	2950
12	1020	e880	e540	e400	e350	e330	e320	e18500	4210	1130	578	3350
13	1000	e860	e530	e400	e350	e330	e320	18500	4030	1090	573	4160
14	972	e840	e530	e400	e350	e330	e320	17200	3740	1040	554	4930
15	944	e820	e520	e400	e350	e330	e320	15800	3590	998	540	5490
16	1170	e800	e520	e390	e350	e330	e320	15000	3450	972	533	7650
17	1350	e780	e510	e390	e340	e330	e320	12800	3260	966	522	8430
18	1310	e760	e510	e390	e340	e330	e320	11000	3360	992	525	6790
19	2090	e740	e500	e390	e340	e330	e320	9700	4000	1050	526	5490
20	3330	e730	e490	e390	e340	e330	e320	8550	3580	983	522	4660
21	3560	e720	e490	e380	e340	e330	e320	8280	3150	931	564	4170
22	3160	e710	e480	e380	e340	e330	e320	7830	2900	883	632	4820
23	3110	e700	e480	e380	e340	e330	e330	7100	2830	837	819	8100
24	3890	e690	e460	e380	e340	e330	e340	6590	2790	804	1260	10000
25	3800	e680	e450	e380	e340	e330	e350	6320	2730	783	1680	8880
26	3180	e670	e440	e370	e340	e330	e370	6700	2600	781	1660	8320
27	3040	e660	e440	e370	e340	e330	e400	6820	2380	757	1370	7350
28	3010	e650	e430	e370	e340	e330	e700	6640	2200	723	1370	6260
29	2830	e640	e430	e370	---	e330	e1000	6470	2070	700	1700	5480
30	2560	e640	e430	e360	---	e325	e1600	6310	1960	685	2070	4980
31	2120	---	e430	e360	---	e320	---	6090	---	670	1970	---
TOTAL	56712	27240	15990	12260	9730	10255	12130	323100	118270	33735	26858	138490
MEAN	1829	908	516	395	348	331	404	10420	3942	1088	866	4616
MAX	3890	1800	630	430	360	340	1600	19500	7950	1880	2070	10000
MIN	780	640	430	360	340	320	320	2400	1960	670	522	1390
MED	1170	810	520	390	350	330	320	8280	3670	998	621	4740
AC-FT	112500	54030	31720	24320	19300	20340	24060	640900	234600	66910	53270	274700
CFSM	1.29	0.64	0.36	0.28	0.24	0.23	0.28	7.34	2.78	0.77	0.61	3.25
IN.	1.49	0.71	0.42	0.32	0.25	0.27	0.32	8.46	3.10	0.88	0.70	3.63

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2001 - 2005, BY WATER YEAR (WY)#

MEAN	2108	1084	441	294	246	226	777	6975	3802	1799	1758	2592
MAX	2762	1728	571	395	348	331	1610	10420	4998	3051	3320	4616
(WY)	2004	2004	2003	2005	2005	2005	2004	2005	2003	2001	2003	2005
MIN	1302	520	304	233	198	176	162	4266	2881	984	656	922
(WY)	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2002	2004

\# See Period of Record: partial year was used in monthly statistics
e Estimated

15565400 ANVIK RIVER NEAR ANVIK—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2001 - 2005#	
ANNUAL TOTAL	601223		784770			
ANNUAL MEAN	1643		2150		1795	
HIGHEST ANNUAL MEAN					2150	2005
LOWEST ANNUAL MEAN					1130	2002
HIGHEST DAILY MEAN	10000	May 1	e19500	May 8	e19500	May 8 2005
LOWEST DAILY MEAN	a180	Mar 16	b320	Mar 31	c160	Apr 1 2002
ANNUAL SEVEN-DAY MINIMUM	180	Mar 16	320	Mar 31	160	Apr 1 2002
MAXIMUM PEAK FLOW			d	May 8	20700	May 25 2002
MAXIMUM PEAK STAGE			f27.70	May 8	f27.70	May 8 2005
INSTANTANEOUS LOW FLOW			320	Mar 31	160	Apr 1 2002
ANNUAL RUNOFF (AC-FT)	1193000		1557000		1301000	
ANNUAL RUNOFF (CFSM)	1.16		1.51		1.26	
ANNUAL RUNOFF (INCHES)	15.75		20.56		17.18	
10 PERCENT EXCEEDS	5020		6290		4820	
50 PERCENT EXCEEDS	846		710		800	
90 PERCENT EXCEEDS	190		330		210	

\# See Period of Record: partial year was used in monthly statistics
a From Mar. 16 to Apr. 8
b From Mar. 31 to Apr. 22
c From Apr. 1 to Apr. 26, 2002
d Not determined, occurred during period of backwater from ice and snow, see highest daily mean
e Estimated
f Backwater from ice

15565400 ANVIK RIVER NEAR ANVIK—Continued

WATER-QUALITY RECORDS

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

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

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

REMARKS.--No record from May 11 to July 10 due to probe damage by ice and from August 24 to September 14 from animal damage. Records represent water temperature at the sensor within 0.5°C. Temperature was compared with the stream average by cross section on July 10 and September 14. No variation was found within the cross sections. The variation between mean stream temperature and sensor temperature was less than 0.5°C.

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

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum recorded, 18.5°C, July 25; minimum, 0.0°C, many days during fall, winter and spring breakup period.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Sample location, cross section ft from rt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUL								
10...	1555	195	10.0	20.07	1220	10	14.0	17.0
10...	1556	195	80.0	20.07	1220	10	14.0	17.0
10...	1557	195	120.0	20.07	1220	10	14.0	17.0
10...	1558	195	150.0	20.07	1220	10	14.0	17.0
10...	1559	195	180.0	20.07	1220	10	14.0	17.0
SEP								
14...	1351	202	10.0	22.47	5030	10	7.5	6.0
14...	1352	202	70.0	22.47	5030	10	7.5	6.0
14...	1353	202	110.0	22.47	5030	10	7.5	6.0
14...	1354	202	150.0	22.47	5030	10	7.5	6.0
14...	1355	202	180.0	22.47	5030	10	7.5	6.0

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		OCTOBER			NOVEMBER			DECEMBER			JANUARY	
1	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	2.0	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	2.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	2.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	2.0	1.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
8	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
9	3.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10	3.5	2.5	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
11	3.5	3.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12	3.5	3.0	3.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0	0.0
14	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15	2.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
16	2.5	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
18	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
19	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20	3.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
21	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	2.0	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.5	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
28	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
29	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
31	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0
MONTH	3.5	0.0	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

15565400 ANVIK RIVER NEAR ANVIK—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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	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	0.0	0.0	0.0	0.5	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.5
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	0.0	0.5
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5	0.5	1.5
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.5	2.5
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.5	3.0
11	0.0	0.0	0.0	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	0.0	0.0	0.0	---	---	---
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
15	0.0	0.0	0.0	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	0.0	0.0	0.0	---	---	---
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
19	0.0	0.0	0.0	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	0.0	0.0	0.0	---	---	---
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
24	0.0	0.0	0.0	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	0.0	0.0	0.0	---	---	---
26	0.0	0.0	0.0	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	0.0	0.0	0.0	---	---	---
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
29	---	---	---	0.0	0.0	0.0	0.5	0.0	0.0	---	---	---
30	---	---	---	0.0	0.0	0.0	0.5	0.0	0.0	---	---	---
31	---	---	---	0.0	0.0	0.0	---	---	---	---	---	---
MONTH	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.0	0.0	---	---	---

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

15565447 YUKON RIVER AT PILOT STATION

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

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

WATER-DISCHARGE RECORDS

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

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

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

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e173000	e136000	e80000	e53000	e44500	e42000	e41000	e250000	716000	e538000	389000	308000
2	e170000	e134000	e78000	e53000	e44000	e42000	e41000	e290000	710000	e522000	386000	303000
3	e166000	e132000	e76000	e52000	e44000	e42000	e41000	e325000	706000	e510000	382000	302000
4	e163000	e130000	e74000	e52000	e43500	e42000	e41000	e400000	701000	e496000	377000	300000
5	e160000	e128000	e72000	e51000	e43500	e42000	e41000	e450000	699000	e485000	371000	298000
6	e158000	e125000	e70000	e51000	e43500	e42000	e41000	e530000	701000	e472000	364000	297000
7	156000	e122000	e68000	e50500	e43500	e41500	e41000	e620000	696000	e459000	357000	296000
8	152000	e120000	e67000	e50500	e43500	e41500	e41000	e750000	691000	e447000	351000	294000
9	152000	e118000	e66000	e50000	e43000	e41500	e41000	e820000	693000	e435000	344000	293000
10	e151000	e116000	e65000	e50000	e43000	e41500	e41000	e930000	701000	e425000	338000	294000
11	e151000	e114000	e64000	e49500	e43000	e41500	e41000	e1150000	707000	e416000	333000	296000
12	e150000	e112000	e63000	e49500	e43000	e41500	e41000	e1160000	709000	408000	329000	296000
13	e148000	e110000	e62000	e49000	e43000	e41500	e41000	e1160000	704000	402000	326000	305000
14	e147000	e108000	e61000	e49000	e43000	e41500	e41000	e1170000	698000	397000	323000	309000
15	e147000	e106000	e60000	e48500	e43000	e41500	e41000	e1170000	689000	394000	320000	311000
16	151000	e104000	e59000	e48500	e43000	e41500	e41000	1180000	680000	394000	317000	319000
17	151000	e102000	e59000	e48000	e42500	e41500	e41000	1180000	669000	397000	316000	330000
18	150000	e100000	e58000	e48000	e42500	e41500	e41000	1080000	653000	400000	315000	338000
19	e150000	e100000	e58000	e47500	e42500	e41500	e41000	932000	646000	401000	314000	346000
20	e149000	e99000	e57000	e47500	e42500	e41500	e41000	831000	635000	402000	311000	349000
21	e148000	e98000	e57000	e47000	e42500	e41500	e42000	771000	626000	401000	311000	349000
22	e147000	e97000	e56000	e47000	e42500	e41500	e48000	741000	618000	400000	310000	351000
23	e146000	e96000	e56000	e46500	e42500	e41500	e56000	724000	610000	399000	312000	356000
24	e145000	e95000	e56000	e46500	e42500	e41500	e61000	706000	602000	398000	314000	364000
25	e144000	e93000	e55000	e46000	e42500	e41000	e67000	694000	597000	397000	314000	367000
26	e143000	e91000	e55000	e46000	e42000	e41000	e75000	703000	e590000	397000	314000	370000
27	e142000	e89000	e55000	e45500	e42000	e41000	e100000	714000	e580000	396000	313000	375000
28	e141000	e87000	e54000	e45500	e42000	e41000	e130000	717000	e570000	395000	311000	379000
29	e140000	e85000	e54000	e45000	---	e41000	e165000	723000	e560000	394000	313000	382000
30	e139000	e83000	e54000	e45000	---	e41000	e205000	723000	e550000	392000	314000	386000
31	e138000	---	e53000	e44500	---	e41000	---	721000	---	390000	312000	---
TOTAL	4668000	3230000	1922000	1502500	1202500	1286000	1769000	24315000	19707000	13159000	10301000	9863000
MEAN	150600	107700	62000	48470	42950	41480	58970	784400	656900	424500	332300	328800
MAX	173000	136000	80000	53000	44500	42000	205000	1180000	716000	538000	389000	386000
MIN	138000	83000	53000	44500	42000	41000	41000	250000	550000	390000	310000	293000
AC-FT	9259000	6407000	3812000	2980000	2385000	2551000	3509000	48230000	39090000	26100000	20430000	19560000
CFSM	0.47	0.34	0.19	0.15	0.13	0.13	0.18	2.44	2.05	1.32	1.04	1.02
IN.	0.54	0.37	0.22	0.17	0.14	0.15	0.21	2.82	2.28	1.52	1.19	1.14

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005, BY WATER YEAR (WY)#

MEAN	248800	128700	75520	61000	52740	47890	46810	299600	582500	444400	388800	356200
MAX	335900	211800	94840	76000	65360	56770	58970	784400	844600	563500	515800	481300
(WY)	1991	2003	1986	1986	1994	1980	2005	2005	1985	1992	1981	1994
MIN	150600	72500	50000	48470	38380	35160	38430	100200	364400	314000	312500	226700
(WY)	2005	1989	1988	2005	1984	1984	1976	1985	1978	1996	2004	2004

\# See Period of Record; partial year was used in monthly statistics and break in record
e Estimated

15565447 YUKON RIVER AT PILOT STATION—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1976 - 2005#	
ANNUAL TOTAL	74686000		92925000			
ANNUAL MEAN	204100		254600		227500	
HIGHEST ANNUAL MEAN					254600	2005
LOWEST ANNUAL MEAN					185300	1978
HIGHEST DAILY MEAN	a645000	Jun 12	b1180000	May 16	b1180000	May 16 2005
LOWEST DAILY MEAN	c46500	Mar 23	d41000	Mar 25	f35000	Feb 23 1984
ANNUAL SEVEN-DAY MINIMUM	46500	Mar 23	41000	Mar 25	35000	Feb 23 1984
MAXIMUM PEAK FLOW			1240000	May 16	1240000	May 16 2005
MAXIMUM PEAK STAGE			27.83	May 16		
MAXIMUM PEAK STAGE			g29.48	May 13	g36.25	May 25 1989
ANNUAL RUNOFF (AC-FT)	148100000		184300000		164800000	
ANNUAL RUNOFF (CFSM)	0.636		0.793		0.709	
ANNUAL RUNOFF (INCHES)	8.66		10.77		9.63	
10 PERCENT EXCEEDS	517000		693000		502000	
50 PERCENT EXCEEDS	133000		141000		130000	
90 PERCENT EXCEEDS	47500		41500		47000	

\# See Period of Record; partial year was used in monthly statistics and break in record
a June 12-13
b May 16-17
c Mar. 23 - Apr. 17
d Mar. 25 - Apr. 20
f Feb. 23 - Mar. 27, 1984
g Backwater from ice

15565447 YUKON RIVER AT PILOT STATION—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1954-1956, 1975-96, and April 2001 to September 2005 (discontinued).

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

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Location in X-sect. looking dwnstrm ft from l bank (00009)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
MAR								
17...	1750	1850	313	7.0	.0	767	2.6	18
17...	1800	1650	302	7.0	.0	767	2.5	17
17...	1810	1400	322	7.0	.0	767	2.8	19
17...	1820	1150	322	7.0	.0	767	2.5	17
17...	1830	700	315	7.2	.0	767	2.8	19
MAY								
17...	1005	2150	156	7.9	5.5	748	10.0	79
17...	1028	1850	152	7.9	5.5	748	10.1	79
17...	1040	1580	150	7.9	5.5	748	10.1	80
17...	1050	1250	149	7.9	5.5	748	10.1	80
17...	1055	800	149	8.0	5.5	748	10.1	80
JUN								
01...	1118	2480	164	7.8	12.5	762	9.2	86
01...	1139	2180	165	7.8	12.5	762	9.2	86
01...	1202	1900	165	7.8	12.5	762	9.2	86
01...	1219	1580	165	7.8	12.5	762	9.2	87
01...	1231	1130	165	7.8	12.5	762	9.2	86
14...	1500	2500	190	7.9	15.5	762	7.9	79
14...	1514	2200	189	7.9	15.5	762	8.0	81
14...	1531	1920	189	7.9	15.5	762	8.1	81
14...	1544	1600	189	7.9	15.5	762	8.1	81
14...	1605	1150	189	7.9	15.5	762	8.2	82
JUL								
12...	0900	650	213	8.2	17.0	756	9.2	95
12...	0915	1200	221	8.2	17.5	756	8.9	93
12...	0927	1600	222	8.1	17.5	756	8.9	93
12...	0945	1850	222	8.0	17.5	756	9.1	95
12...	1030	2150	222	8.0	17.5	756	9.4	98
AUG								
16...	1800	1850	251	7.8	17.0	762	8.5	88
16...	1813	1550	257	8.1	17.0	762	8.6	88
16...	1821	1300	255	7.9	17.0	762	8.6	89
16...	1835	925	255	8.0	17.0	762	8.5	88
16...	1851	400	255	8.0	17.0	762	8.4	87
SEP								
27...	1410	620	228	7.9	9.0	742	10.9	94
27...	1425	1100	225	8.0	9.0	742	10.8	93
27...	1440	1480	225	8.0	9.0	742	10.8	94
27...	1510	1800	225	8.0	9.0	742	10.9	94
27...	1530	2000	215	7.9	9.0	742	10.9	94

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Type of repli-cate, code (99105)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)
MAR													
17...	1930	9	9	2000	--	41600	20	8010	10	--	315	7.0	-.5
MAY													
17...	1030	9	9	2600	27.76	1150000	20	3055	--	--	150	7.9	4.5
JUN													
01...	1200	9	7	2930	26.28	761000	20	3055	30	10.00	165	7.8	12.5
14...	1530	9	9	2950	26.10	680000	20	3055	--	--	189	7.9	19.5
JUL													
12...	0930	9	9	2600	18.98	416000	20	3055	--	--	222	8.1	--
AUG													
16...	1820	9	9	2300	15.59	316000	20	3055	--	--	255	7.9	19.5
SEP													
27...	1450	9	9	2530	17.84	377000	20	3055	--	--	225	7.9	9.0

15565447 YUKON RIVER AT PILOT STATION—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Temperature, water, deg C (00010)	UV absorbance, 254 nm, wat flt units /cm (50624)	UV absorbance, 280 nm, wat flt units /cm (61726)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)
MAR													
17...	.0	.063	.045	767	2.5	17	170	47.9	11.7	3.93	1.39	156	.0
MAY													
17...	5.5	.524	.393	748	10.1	82	73	22.4	4.20	1.72	1.16	76	.0
JUN													
01...	12.5	.371	.277	762	9.2	86	80	24.2	4.63	1.66	1.16	79	.0
14...	15.5	.255	.189	762	8.0	80	94	27.6	5.95	1.80	1.11	72	.0
JUL													
12...	17.5	.194	.143	756	9.1	96	110	30.8	7.39	2.76	1.58	122	.0
AUG													
16...	17.0	.197	.160	762	8.5	88	120	35.2	8.61	3.24	1.53	145	.0
SEP													
27...	9.0	.248	.184	742	10.9	97	110	30.8	7.86	2.75	1.07	124	.0

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phosphorus, water, unfltrd mg/L (00665)
MAR													
17...	128	26.8	1.15	.1	13.2	189	184	.002	.195	.080	.22	.20	.022
MAY													
17...	62	12.8	.73	E.1	4.76	112	86	.004	.121	.049	.98	.51	.70
JUN													
01...	64	18.0	.52	E.1	4.97	120	95	.002	.079	E.008	.68	.31	.30
14...	59	25.7	.51	E.1	5.86	114	105	E.001	.084	E.005	.51	.22	.30
JUL													
12...	100	32.3	.83	.1	6.88	144	144	E.001	.094	E.006	.64	.19	.39
AUG													
16...	119	39.4	.78	.1	7.27	165	168	.002	.105	E.007	.35	E.10	.32
SEP													
27...	101	36.6	1.26	E.1	7.55	160	150	E.001	.113	E.006	.40	.22	.173

Date	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)
MAR													
17...	E.003	E.003	E1	<.20	.4	81	<.06	14	E.04	<.8	.239	1.4	94
MAY													
17...	.018	.006	29	.22	1.1	39	<.06	9	<.04	<.8	.294	6.0	332
JUN													
01...	.010	<.006	21	.25	1.0	45	<.06	E4	<.04	<.8	.176	5.3	193
14...	.007	<.006	14	.25	.9	43	<.06	E5	E.02	<.8	.118	2.9	150
JUL													
12...	.009	E.004	12	.29	1.1	48	<.06	12	.06	<.8	.092	2.6	207
AUG													
16...	.006	E.003	13	.27	.9	50	<.06	12	<.04	<.8	.104	2.4	50
SEP													
27...	.013	E.005	17	.22	.92	46	<.06	12	E.03	.21	.08	3.1	178

E Estimated

15565447 YUKON RIVER AT PILOT STATION—Continued

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Organic carbon, water, fltrd, mg/L (00681)	Inorganic carbon, suspnd sedimnt total, mg/L (00688)
MAR													
17...	.20	2.9	139	.8	1.92	E.3	<.2	208	1.4	3.8	.95	2.1	<.1
MAY													
17...	.23	1.9	72.4	.6	2.57	<.4	<.2	80.2	1.1	1.2	.56	14.4	2.4
JUN													
01...	.63	1.7	29.3	.6	2.76	E.3	<.2	95.0	.8	1.7	.47	10.2	.6
14...	.17	2.4	16.8	.7	2.38	E.3	<.2	105	.8	2.4	.47	7.0	.4
JUL													
12...	.20	2.7	2.7	1.2	2.03	.5	<.2	128	.8	1.7	.70	5.8	1.7
AUG													
16...	E.07	3.5	3.7	1.3	2.26	.5	<.2	156	.6	1.1	.84	3.5	1.4
SEP													
27...	.14	2.4	10.0	.9	1.1	.37	<.2	135	.63	.74	.76	6.5	.1

Date	Organic carbon, suspnd sedimnt total, mg/L (00689)	Total carbon, suspnd sedimnt total, mg/L (00694)	Particulate nitrogen, susp, water, mg/L (49570)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)
MAR						
17...	.4	.4	.03	5	562	95
MAY						
17...	9.4	11.8	.64	863	2680000	72
JUN						
01...	5.5	6.0	.34	612	1260000	63
14...	4.9	5.4	.37	393	722000	69
JUL						
12...	4.8	6.6	.35	461	518000	86
AUG						
16...	4.2	5.6	.27	413	352000	64
SEP						
27...	3.1	3.3	.21	287	292000	82

E Estimated

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1090	e940	e380	e228	e164	e142	e125	e2000	4770	1610	803	1830
2	1060	e900	e372	e226	e163	e142	e125	e4000	6290	1550	772	1720
3	1040	e870	e366	e224	e162	e141	e125	e4000	9340	1470	750	1630
4	1030	e830	e360	e222	e161	e140	e124	e3500	7370	1400	728	1630
5	1090	e800	e344	e220	e160	e140	e124	e3600	5870	1410	698	1630
6	1100	e770	e334	e217	e159	e139	e124	e4500	4950	1360	675	1640
7	1060	e740	e324	e215	e158	e139	e123	e6000	4360	1280	673	1810
8	1030	e710	e316	e213	e157	e138	e123	e8000	4020	1240	716	1770
9	1020	e690	e310	e208	e156	e138	e122	e10000	3850	1220	714	1690
10	1010	e670	e305	e200	e155	e137	e122	e11000	3540	1240	664	1890
11	1050	e650	e296	e196	e154	e137	e122	e12000	3290	1570	622	2410
12	1090	e630	e294	e193	e153	e136	e121	e13000	3230	1560	606	2900
13	1080	e610	e292	e190	e152	e136	e121	e15000	3060	1400	588	3610
14	1050	e590	e288	e187	e151	e135	e121	e17500	2870	1300	568	5260
15	1030	e575	e286	e184	e150	e135	e120	e18000	2810	1230	552	6090
16	1080	e560	e283	e183	e150	e134	e120	e17000	2680	1190	539	8820
17	1200	e545	e280	e181	e149	e134	e120	e16000	2520	1170	527	10600
18	1210	e530	e278	e180	e149	e133	e120	13200	2470	1190	522	9400
19	1230	e515	e274	e179	e148	e133	e120	10000	3100	1220	518	6970
20	1350	e495	e270	e178	e147	e132	e120	8490	2860	1160	519	5390
21	1460	e480	e265	e177	e147	e132	e120	7990	2530	1100	573	4460
22	1460	e465	e260	e175	e146	e131	e122	7720	2350	1040	774	5030
23	1490	e450	e250	e173	e146	e131	e128	7030	2220	986	969	6820
24	e1500	e440	e246	e172	e145	e130	e136	6390	2140	952	1510	8400
25	e1400	e430	e244	e171	e144	e129	e150	5920	2030	952	1960	8270
26	e1440	e420	e242	e170	e144	e128	e170	5920	1920	985	2120	7930
27	e1480	e410	e240	e169	e143	e128	e200	6370	1830	934	1900	7170
28	e1420	e400	e238	e168	e143	e127	e400	6290	1740	895	1750	6310
29	e1300	e395	e235	e167	---	e127	e700	5780	1670	867	1770	5380
30	e1160	e385	e233	e166	---	e126	e1000	5480	1610	863	1900	4540
31	e1000	---	e230	e165	---	e126	---	5200	---	843	1930	---
TOTAL	37010	17895	8935	5897	4256	4156	5568	266880	103290	37187	29910	143000
MEAN	1194	596	288	190	152	134	186	8609	3443	1200	965	4767
MAX	1500	940	380	228	164	142	1000	18000	9340	1610	2120	10600
MIN	1000	385	230	165	143	126	120	2000	1610	843	518	1630
AC-FT	73410	35490	17720	11700	8440	8240	11040	529400	204900	73760	59330	283600
CFSM	1.14	0.57	0.28	0.18	0.15	0.13	0.18	8.21	3.29	1.14	0.92	4.55
IN.	1.31	0.64	0.32	0.21	0.15	0.15	0.20	9.47	3.67	1.32	1.06	5.08
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)#												
MEAN	1534	690	269	166	131	117	256	4520	3537	1620	2721	2762
MAX	2190	1181	342	200	152	134	783	8609	8788	2571	5690	4767
(WY)	2003	2004	2003	2003	2005	2005	2004	2005	2001	2003	1998	2005
MIN	1037	394	198	147	116	98.2	105	1182	1216	562	809	1339
(WY)	2002	2002	2002	2002	2001	2001	2001	2001	1997	1997	2002	2004

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

15565700 UNALAKLEET RIVER ABOVE CHIROSKEY RIVER NEAR UNALAKLEET—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005#	
ANNUAL TOTAL	609190		663984			
ANNUAL MEAN	1664		1819		1528	
HIGHEST ANNUAL MEAN					1819	2005
LOWEST ANNUAL MEAN					1005	2002
HIGHEST DAILY MEAN	15500	Aug 15	18000	May 15	19600	Jun 8 2001
LOWEST DAILY MEAN	a120	Feb 11	b120	Apr 15	c95	Mar 21 2001
ANNUAL SEVEN-DAY MINIMUM	120	Feb 11	120	Apr 15	95	Mar 21 2001
MAXIMUM PEAK FLOW			d	May 15	f19700	Jun 8 2001
MAXIMUM PEAK STAGE					98.41	Jun 8 2001
MAXIMUM PEAK STAGE			g98.19	May 14	g99.58	May 23 2002
ANNUAL RUNOFF (AC-FT)	1208000		1317000		1107000	
ANNUAL RUNOFF (CFSM)	1.59		1.74		1.46	
ANNUAL RUNOFF (INCHES)	21.62		23.57		19.81	
10 PERCENT EXCEEDS	5460		5890		3780	
50 PERCENT EXCEEDS	1030		673		718	
90 PERCENT EXCEEDS	120		133		120	

\# See Period of Record; partial years were used in monthly statistics
a From Feb. 11 to Apr. 5
b From Apr. 15 to Apr. 21
c From Mar. 21 to Apr. 10
d Undetermined, see highest daily mean
f From rating curve extended above 8800 ft^3/s
g Backwater from ice

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 from December 26 to January 21 and February 15-16 due to frozen probe. Records represent water temperature at the sensor within 0.5°C. Temperature was compared with the stream average by cross section on June 29 and August 13. No variation was found within the June 29 cross section, a 0.1°C variation found within the August 13 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, 15.5°C, July 14, 2004; minimum, 0.0°C, many days during winter and spring breakup periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 14.0°C, June 28-29 July 25-27; minimum, 0.0°C, many days during fall, winter and spring breakup periods.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Sample location, cross section ft from rt bank (72103)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUN								
29...	1701	249	10.0	88.42	1660	10	14.0	19.5
29...	1702	249	50.0	88.42	1660	10	14.0	19.5
29...	1703	249	100.0	88.42	1660	10	14.0	19.5
29...	1704	249	200.0	88.42	1660	10	14.0	19.5
29...	1705	249	200.0	88.42	1660	10	14.0	19.5
AUG								
13...	1800	250	5.0	87.24	584	10	12.9	24.5
13...	1820	250	30.0	87.24	584	10	12.8	24.5
13...	1830	250	75.0	87.24	584	10	12.8	24.5
13...	1840	250	115.0	87.24	584	10	12.9	24.5
13...	1855	250	215.0	87.24	584	10	12.9	24.5

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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	0.0	0.0	---	---	---
2	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
3	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
4	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
5	3.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
6	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
7	2.5	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
8	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
9	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
10	3.0	2.5	2.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
11	3.0	2.5	3.0	0.0	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	0.0	0.0	---	---	---
13	2.5	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
14	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
15	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
16	3.0	2.0	2.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
17	2.5	2.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
18	2.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
19	2.0	1.5	2.0	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---
20	2.5	2.0	2.0	0.0	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	0.0	0.0	---	---	---
22	1.5	0.5	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
23	1.5	1.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
24	1.5	1.0	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25	1.0	0.0	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
26	0.5	0.0	0.0	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0
27	2.0	0.5	1.0	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0
28	1.0	1.0	1.0	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0
29	1.5	1.0	1.0	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0
30	1.0	0.0	0.5	0.0	0.0	0.0	---	---	---	0.0	0.0	0.0
31	0.0	0.0	0.0	---	---	---	---	---	---	0.0	0.0	0.0
MONTH	3.0	0.0	1.7	0.0	0.0	0.0	---	---	---	---	---	---

15565700 UNALAKLEET RIVER ABOVE CHIROSKEY RIVER NEAR UNALAKLEET—Continued

TEMPERATURE, WATER (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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	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	0.0	0.0	0.0	1.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5	1.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5	1.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5	1.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.5	0.5	1.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.5	1.0
8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	1.0	1.5
9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.5	2.0
10	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	2.5	3.0
11	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.5	3.0
12	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.0	3.0
13	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.5	4.0
14	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.0	3.5
15	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	4.0	2.5	3.0
16	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	4.0	3.5	4.0
17	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.0	3.5
18	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	3.5	4.0
19	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.5	3.0	3.5
20	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	3.5	4.0
21	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.5	4.0	5.0
22	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.5	4.0	4.0
23	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	4.5	5.0
24	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	5.0	5.0
25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	5.0	6.0
26	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.0	6.5
27	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.5	6.0	6.0
28	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.0	6.5	6.5
29	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	7.0	6.5	6.5
30	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	7.5	6.5	7.0
31	---	---	---	0.0	0.0	0.0	---	---	---	---	---	---
MONTH	---	---	---	0.0	0.0	0.0	0.0	0.0	0.0	---	---	---

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	6.0	5.5	6.0	13.0	11.0	12.0	13.0	11.0	12.0	8.5	7.5	8.0
2	5.5	5.0	5.5	13.5	11.5	12.5	12.0	10.5	11.5	7.5	7.0	7.0
3	5.0	4.5	4.5	13.5	11.5	12.5	11.5	10.0	10.5	7.5	7.0	7.0
4	5.0	4.5	5.0	13.5	11.5	12.5	11.5	10.5	10.5	8.0	7.0	7.5
5	7.0	5.0	5.5	13.5	11.5	12.5	11.0	10.5	10.5	7.5	7.5	7.5
6	---	7.0	7.0	13.5	11.5	12.5	11.0	10.5	10.5	8.0	7.5	7.5
7	8.5	---	---	12.5	11.5	12.0	11.0	10.0	10.5	8.5	8.0	8.0
8	9.0	8.5	8.5	11.5	10.5	11.0	11.5	10.0	11.0	8.5	7.5	8.0
9	8.5	8.0	8.5	10.5	10.0	10.0	12.5	10.0	11.5	8.0	7.5	7.5
10	9.5	8.0	8.5	10.0	9.0	9.5	13.0	11.5	12.0	8.0	7.5	7.5
11	9.0	8.0	9.0	9.0	8.5	9.0	12.0	11.0	11.5	8.0	8.0	8.0
12	8.5	7.5	8.0	10.0	9.0	9.5	11.5	10.0	10.5	8.0	7.0	7.5
13	10.0	8.5	9.0	11.0	10.0	10.5	13.0	10.5	11.5	7.5	7.0	7.0
14	11.0	9.5	10.0	11.5	9.5	10.5	12.5	11.5	12.0	7.0	7.0	7.0
15	11.5	10.0	10.5	13.0	10.5	12.0	12.0	11.0	11.5	7.0	7.0	7.0
16	12.0	10.5	11.0	13.5	12.0	12.5	12.0	10.5	11.5	7.0	6.5	7.0
17	12.5	11.0	12.0	12.5	11.5	12.0	11.5	10.5	11.0	6.5	6.5	6.5
18	12.0	10.0	11.5	12.0	11.0	11.5	10.5	9.5	10.0	6.5	6.0	6.0
19	10.0	9.0	9.5	11.5	10.0	10.5	9.5	8.5	9.0	6.0	6.0	6.0
20	10.5	8.5	9.5	12.5	10.5	11.5	9.0	8.5	9.0	6.0	6.0	6.0
21	10.5	10.0	10.0	13.0	11.5	12.0	9.5	8.5	9.0	6.0	6.0	6.0
22	10.5	9.5	10.0	13.5	11.5	12.5	9.5	9.0	9.5	6.5	6.0	6.0
23	11.0	9.5	10.0	13.5	12.0	12.5	10.0	9.5	9.5	6.5	6.5	6.5
24	12.0	10.0	11.0	13.5	12.0	12.5	10.0	9.5	9.5	6.5	5.5	5.5
25	12.0	10.5	11.5	14.0	11.5	12.5	10.0	9.0	9.5	5.5	5.5	5.5
26	12.5	11.0	11.5	14.0	12.5	13.0	9.5	9.0	9.0	5.5	5.5	5.5
27	13.0	11.5	12.0	14.0	12.0	13.0	9.0	8.5	8.5	5.5	5.0	5.0
28	14.0	12.0	13.0	13.5	12.5	13.0	8.5	8.5	8.5	5.0	4.0	4.5
29	14.0	13.0	13.5	13.0	11.5	12.0	9.0	8.0	8.5	4.5	4.0	4.0
30	13.5	12.0	12.5	11.5	11.0	11.5	9.5	8.5	9.0	4.0	3.0	3.5
31	---	---	---	13.0	11.0	11.5	9.0	8.5	9.0	---	---	---
MONTH	---	---	---	14.0	8.5	11.7	13.0	8.0	10.2	8.5	3.0	6.5

15583500 ETTA CREEK NEAR COUNCIL

LOCATION.--Lat 64°41'56", long 164°09'57", in SE¼ NE¼ NE¼ sec. 24, T.9 S., R.28 W. (Solomon C-5 quad),Seward Peninsula, Hydrologic Unit 19050104, on the left bank, .2 mi upstream from mouth at the East Fork of Solomon River, 25 miles southwest of Council, Alaska.

DRAINAGE AREA.--1.33 mi^2.

PERIOD OF RECORD.--July 2001 to current year (no winter record).

GAGE.--Water-stage recorder. Elevation of gage is 330 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 PERIOD OF RECORD.-- Maximum discharge, 20 ft^3/s, September 24, 2005, gage-height 50.55 ft; Minimum discharge not determined, occurs during winter.

EXTREMES FOR CURRENT PERIOD.-- October 2004, May to September 2005: maximum discharge during period, 20 ft^3/s, September 24, gage height 50.55 ft. Minimum discharge not determined, occurs during winter.

WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.4	---	---	---	---	---	---	e0.40	6.9	3.6	2.3	3.8
2	1.4	---	---	---	---	---	---	e0.45	6.8	3.4	2.3	3.9
3	1.4	---	---	---	---	---	---	e0.50	6.4	3.3	2.3	3.8
4	1.3	---	---	---	---	---	---	e0.55	6.0	3.3	2.3	3.7
5	1.3	---	---	---	---	---	---	e0.60	5.9	3.1	2.4	3.7
6	1.3	---	---	---	---	---	---	e0.65	6.2	2.9	2.6	3.6
7	1.3	---	---	---	---	---	---	e0.70	6.4	2.8	3.1	3.5
8	1.3	---	---	---	---	---	---	e0.80	6.4	2.7	3.0	3.4
9	1.3	---	---	---	---	---	---	e0.90	6.0	2.8	3.2	3.9
10	1.4	---	---	---	---	---	---	e1.0	5.9	3.1	3.4	3.8
11	1.3	---	---	---	---	---	---	e1.4	6.0	3.2	3.6	4.1
12	1.2	---	---	---	---	---	---	e1.8	6.0	2.9	3.9	5.0
13	1.2	---	---	---	---	---	---	e2.0	5.8	2.9	3.9	5.7
14	1.2	---	---	---	---	---	---	e2.2	5.8	2.9	3.8	5.8
15	e1.1	---	---	---	---	---	---	e2.4	5.6	2.9	3.7	9.9
16	e1.1	---	---	---	---	---	---	e2.6	5.4	3.1	3.6	13
17	e1.1	---	---	---	---	---	---	e2.7	5.6	2.8	3.5	11
18	e1.0	---	---	---	---	---	---	e2.8	5.9	2.7	3.4	11
19	e1.0	---	---	---	---	---	---	e2.9	5.3	2.7	3.3	11
20	e1.0	---	---	---	---	---	---	e3.0	5.0	2.7	3.2	10
21	e0.90	---	---	---	---	---	---	e3.3	4.8	2.7	3.1	9.9
22	e0.90	---	---	---	---	---	---	e3.6	4.7	2.7	3.0	10
23	e0.90	---	---	---	---	---	---	e4.0	4.5	2.7	3.1	15
24	e0.80	---	---	---	---	---	---	e4.6	4.2	2.6	2.9	18
25	e0.80	---	---	---	---	---	---	e5.5	4.2	2.8	2.8	17
26	e0.80	---	---	---	---	---	---	e7.0	4.1	2.6	2.7	16
27	e0.70	---	---	---	---	---	---	7.7	4.0	2.5	2.9	15
28	e0.70	---	---	---	---	---	---	7.4	3.9	2.6	3.4	14
29	e0.70	---	---	---	---	---	---	7.3	3.8	2.4	3.5	13
30	e0.60	---	---	---	---	---	---	7.1	3.7	2.3	3.7	11
31	e0.60	---	---	---	---	---	---	6.9	---	2.3	3.9	---
TOTAL	33.00	---	---	---	---	---	---	94.75	161.2	88.0	97.8	262.5
MEAN	1.06	---	---	---	---	---	---	3.06	5.37	2.84	3.15	8.75
MAX	1.4	---	---	---	---	---	---	7.7	6.9	3.6	3.9	18
MIN	0.60	---	---	---	---	---	---	0.40	3.7	2.3	2.3	3.4
MED	1.1	---	---	---	---	---	---	2.6	5.7	2.8	3.2	9.9
AC-FT	65	---	---	---	---	---	---	188	320	175	194	521
CFSM	0.80	---	---	---	---	---	---	2.30	4.04	2.13	2.37	6.58
IN.	0.92	---	---	---	---	---	---	2.65	4.51	2.46	2.74	7.34

e Estimated

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 bridge on road to Bornite at west end of Dahl Creek landing strip, 3.5 mi upstream from mouth, 3 mi north of Kobuk, and 7.3 miles northeast of Shungnak.

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, 1996 and 2005.)

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

EXTREMES FOR PERIOD OF RECORD.-- Maximum discharge, 1840 ft^3/s, August 17, 1994, gage height 6.73 ft, from rating curve extended above 170 ft^3/s on basis of slope-area measurement of peak flow; minimum not determined, occurs during winter.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, 192 ft^3/s, May 30, gage height 5.32 ft; minimum not determined, occurs during winter.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	18	---	---	---	---	---	---	15	155	35	34	30
2	17	---	---	---	---	---	---	17	144	35	33	31
3	17	---	---	---	---	---	---	17	137	34	32	31
4	17	---	---	---	---	---	---	15	127	33	31	30
5	17	---	---	---	---	---	---	16	115	31	33	30
6	16	---	---	---	---	---	---	21	107	31	39	30
7	16	---	---	---	---	---	---	29	99	30	40	30
8	16	---	---	---	---	---	---	38	93	30	37	29
9	16	---	---	---	---	---	---	43	88	31	35	30
10	16	---	---	---	---	---	---	47	83	43	34	30
11	16	---	---	---	---	---	---	58	80	52	33	31
12	15	---	---	---	---	---	---	72	79	107	33	37
13	15	---	---	---	---	---	---	97	76	76	32	56
14	15	---	---	---	---	---	---	112	73	66	31	75
15	15	---	---	---	---	---	---	118	70	61	31	66
16	15	---	---	---	---	---	---	109	68	59	31	63
17	15	---	---	---	---	---	---	103	66	56	30	78
18	14	---	---	---	---	---	---	110	63	54	30	72
19	15	---	---	---	---	---	---	100	64	52	29	69
20	15	---	---	---	---	---	---	102	59	50	29	68
21	15	---	---	---	---	---	---	108	55	48	29	66
22	14	---	---	---	---	---	---	113	52	46	29	67
23	14	---	---	---	---	---	---	113	49	44	30	78
24	14	---	---	---	---	---	---	114	47	43	31	70
25	e14	---	---	---	---	---	---	122	45	41	32	69
26	14	---	---	---	---	---	---	138	41	40	31	69
27	14	---	---	---	---	---	e10	157	39	39	30	68
28	13	---	---	---	---	---	e11	159	38	38	31	67
29	e12	---	---	---	---	---	e13	163	37	37	33	65
30	e11	---	---	---	---	---	14	170	36	36	31	62
31	e10	---	---	---	---	---	---	163	---	35	31	---
TOTAL	461	---	---	---	---	---	---	2759	2285	1413	995	1597
MEAN	14.9	---	---	---	---	---	---	89.0	76.2	45.6	32.1	53.2
MAX	18	---	---	---	---	---	---	170	155	107	40	78
MIN	10	---	---	---	---	---	---	15	36	30	29	29
AC-FT	914	---	---	---	---	---	---	5470	4530	2800	1970	3170
CFSM	1.35	---	---	---	---	---	---	8.09	6.92	4.14	2.92	4.84
IN.	1.56	---	---	---	---	---	---	9.33	7.73	4.78	3.36	5.40

e Estimated

15747000 WULIK RIVER BELOW TUTAK CREEK NEAR KIVALINA

LOCATION.--Lat 67°52'34", long 163°40'28", in NW$^1/_4$ sec. 34, T. 29 N., R. 22 W. (Noatak D-4 quad), Northwest Arctic Borough, Hydrologic Unit 19050404, on left bank 0.1 mi downstream from Tutak Creek and 25 mi northeast of Kivalina.

DRAINAGE AREA.--705 mi^2.

PERIOD OF RECORD.--September 1984 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 175 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. GOES satellite telemetry at station. Flow from 2.8 square miles of the drainage basin is regulated by a tailings dam at the Red Dog Mine site. Up to 25 ft^3/s of the flow at the gage may be discharge from Red Dog Mine during the summer period.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e270	e130	e94	e50	e38	e34	e32	e65	8450	1200	334	1330
2	e280	e120	e92	e49	e38	e34	e32	e72	6480	1020	325	1880
3	e290	e120	e90	e48	e38	e34	e32	e79	4980	879	320	2140
4	e290	e110	e88	e47	e38	e33	e32	e85	3790	770	321	1860
5	e280	e110	e86	e46	e37	e33	e32	e100	2930	696	378	1610
6	e260	e100	e84	e46	e37	e33	e32	e120	2640	655	679	1450
7	e250	e100	e82	e45	e37	e33	e32	e190	2560	613	3270	1320
8	e240	e95	e80	e45	e37	e33	e31	e300	2920	595	6190	1210
9	e230	e95	e78	e45	e37	e33	e31	e450	3730	579	21600	1140
10	e220	e90	e76	e44	e37	e33	e31	e760	3970	577	7720	1110
11	e220	e90	e76	e44	e36	e33	e31	e1200	4710	517	7120	1070
12	e210	e90	e74	e43	e36	e33	e31	e1900	4510	459	8100	1210
13	e210	e90	e72	e43	e36	e33	e31	e3000	4070	426	6520	1350
14	e210	e95	e70	e42	e36	e33	e31	e5200	3960	516	4570	1310
15	e220	e95	e68	e42	e36	e33	e31	e8000	3980	807	3370	1640
16	e220	e100	e68	e42	e36	e33	e31	4970	3930	860	2660	3090
17	e220	e105	e66	e42	e36	e33	e31	3320	3080	814	2190	3410
18	e210	e110	e66	e41	e35	e33	e31	3290	3140	793	1870	2920
19	e210	e110	e64	e41	e35	e33	e32	2560	3230	711	1650	2440
20	e200	e110	e62	e41	e35	e32	e33	2390	2320	646	1500	2070
21	e190	e110	e62	e41	e35	e32	e35	3040	2000	583	1410	1880
22	e190	e110	e60	e40	e35	e32	e37	3860	1840	526	1330	2720
23	e180	e110	e60	e40	e35	e32	e39	4760	1610	488	1420	5210
24	e170	e105	e58	e40	e35	e32	e40	6130	1540	455	1670	6640
25	e170	e105	e56	e40	e34	e32	e43	7300	1470	433	2480	4550
26	e160	e105	e56	e40	e34	e32	e46	11800	1420	421	2320	3420
27	e160	e100	e54	e39	e34	e32	e48	11800	1380	411	2010	2900
28	e150	e100	e54	e39	e34	e32	e53	10300	1320	390	1840	2420
29	e150	e98	e52	e39	---	e32	e55	9800	1340	381	1860	2020
30	e140	e96	e52	e39	---	e32	e60	10400	1310	365	1630	1700
31	e140	---	e50	e39	---	e32	---	9730	---	348	1420	---
TOTAL	6540	3104	2150	1322	1007	1014	1086	126971	94610	18934	100077	69020
MEAN	211	103	69.4	42.6	36.0	32.7	36.2	4096	3154	611	3228	2301
MAX	290	130	94	50	38	34	60	11800	8450	1200	21600	6640
MIN	140	90	50	39	34	32	31	65	1310	348	320	1070
AC-FT	12970	6160	4260	2620	2000	2010	2150	251800	187700	37560	198500	136900
CFSM	0.30	0.15	0.10	0.06	0.05	0.05	0.05	5.81	4.47	0.87	4.58	3.26
IN.	0.35	0.16	0.11	0.07	0.05	0.05	0.06	6.70	4.99	1.00	5.28	3.64

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2005, BY WATER YEAR (WY)#

MEAN	535	137	65.8	37.9	25.8	20.1	18.4	1994	3222	1595	2813	1679
MAX	1542	290	111	70.0	49.3	39.5	38.8	4856	6669	6144	8458	3076
(WY)	1994	1994	1986	1986	1986	1991	1991	1993	1989	1989	1994	2002
MIN	207	63.1	34.2	21.5	12.0	9.10	9.00	20.6	1372	424	496	386
(WY)	1997	2002	1988	1992	1992	1992	1992	1989	1988	1999	1991	1991

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1985 - 2005#	
ANNUAL TOTAL	356246		425835			
ANNUAL MEAN	973		1167		1017	
HIGHEST ANNUAL MEAN					1843	1994
LOWEST ANNUAL MEAN					530	1987
HIGHEST DAILY MEAN	13600	Aug 9	21600	Aug 9	29400	Aug 17 1994
LOWEST DAILY MEAN	a22	Apr 3	b31	Apr 8	c9.0	Apr 30 1985
ANNUAL SEVEN-DAY MINIMUM	22	Apr 3	31	Apr 8	9.0	Apr 30 1985
MAXIMUM PEAK FLOW			30300	Aug 9	38500	Aug 17 1994
MAXIMUM PEAK STAGE			11.38	Aug 9	12.21	Aug 17 1994
MAXIMUM PEAK STAGE					d13.5	May 16 1999
ANNUAL RUNOFF (AC-FT)	706600		844600		736500	
ANNUAL RUNOFF (CFSM)	1.38		1.65		1.44	
ANNUAL RUNOFF (INCHES)	18.80		22.47		19.59	
10 PERCENT EXCEEDS	2880		3410		2900	
50 PERCENT EXCEEDS	145		110		130	
90 PERCENT EXCEEDS	24		33		15	

\# See Period of Record
a From Apr. 3-25
b From Apr. 8-18
c From Apr. 30 to May 10, 1985, and Mar. 4 to May 17, 1992
d From floodmarks, backwater from snow and ice
e Estimated

1574699020 IKALUKROK CREEK 0.6 MILE BELOW RED DOG CREEK NEAR KIVALINA

LOCATION.--Lat 68°05'09", long 162°58'07", in $NE^1/_4$ sec. 15, T. 31 N., R. 19 W. (De Long Mountains A-2 quad), Northwest Arctic Borough, Hydrologic Unit 19050404, on left bank 0.6 miles downstream from Red Dog Creek, 3 miles northwest of Red Dog Mine, 36 miles north of Noatak, and 48 miles northeast of Kivalina.

DRAINAGE AREA.--86.7 mi^2.

PERIOD OF RECORD.--June 2005 to current year. Miscellaneous measurements were collected from June 2001 to September 2004.

GAGE.--Water-stage recorder. Elevation of gage is 660 ft above sea level, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. Meteorburst telemetry at station. Flow from 2.8 square miles of the drainage basin is regulated by a tailings dam at the Red Dog Mine site. Up to 25 ft^3/s of the flow at the gage may be discharge from Red Dog Mine during the summer period.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, to be determined, August 9, 2005, gage height, 31.93 ft from flood marks; minimum not determined, occurs during the winter.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, to be determined, August 9, gage height, 31.93 ft from flood marks; minimum not determined, occurs during the winter.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	---	---	---	---	---	---	---	---	1110	191	60	188
2	---	---	---	---	---	---	---	---	805	163	60	250
3	---	---	---	---	---	---	---	---	668	145	60	243
4	---	---	---	---	---	---	---	---	523	127	60	230
5	---	---	---	---	---	---	---	---	431	116	96	213
6	---	---	---	---	---	---	---	---	379	115	302	195
7	---	---	---	---	---	---	---	---	378	104	946	177
8	---	---	---	---	---	---	---	---	457	106	1530	172
9	---	---	---	---	---	---	---	---	544	101	1680	165
10	---	---	---	---	---	---	---	---	535	99	741	158
11	---	---	---	---	---	---	---	---	614	84	1050	149
12	---	---	---	---	---	---	---	---	593	75	1020	170
13	---	---	---	---	---	---	---	---	587	76	798	170
14	---	---	---	---	---	---	---	---	568	128	583	190
15	---	---	---	---	---	---	---	---	570	192	451	243
16	---	---	---	---	---	---	---	---	538	160	372	496
17	---	---	---	---	---	---	---	---	468	147	319	406
18	---	---	---	---	---	---	---	---	523	128	282	339
19	---	---	---	---	---	---	---	---	448	114	258	296
20	---	---	---	---	---	---	---	e300	332	104	238	264
21	---	---	---	---	---	---	---	e400	300	95	218	249
22	---	---	---	---	---	---	---	e500	280	88	210	346
23	---	---	---	---	---	---	---	e700	269	81	223	862
24	---	---	---	---	---	---	---	e900	256	77	265	693
25	---	---	---	---	---	---	---	e1200	245	75	293	527
26	---	---	---	---	---	---	---	e1700	242	72	267	441
27	---	---	---	---	---	---	---	e1700	228	70	248	390
28	---	---	---	---	---	---	---	e1500	233	73	240	343
29	---	---	---	---	---	---	---	e1350	236	66	229	295
30	---	---	---	---	---	---	---	1360	221	66	211	249
31	---	---	---	---	---	---	---	1200	---	62	195	---
TOTAL	---	---	---	---	---	---	---	---	13581	3300	13505	9109
MEAN	---	---	---	---	---	---	---	---	453	106	436	304
MAX	---	---	---	---	---	---	---	---	1110	192	1680	862
MIN	---	---	---	---	---	---	---	---	221	62	60	149
MED	---	---	---	---	---	---	---	---	453	101	265	249
AC-FT	---	---	---	---	---	---	---	---	26940	6550	26790	18070

e Estimated

15860000 FISH CREEK NEAR NUIQSUT

LOCATION.--Lat 70°16'14", long 151°52'09", in NE¼, NW¼, NW¼ sec. 34, T. 11 N., R. 1 E. (Harrison Bay B-4 quad), Hydrologic Unit 19060205, on left bank, 4 mi upstream from mouth of Judy Creek, 30 mi upstream from mouth in Harrison Bay, and 21 mi west of Nuiqsut.

DRAINAGE AREA.--787 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 2004 to September 2005.

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

REMARKS.--Records poor. GOES satellite telemetry at station.

EXTREMES FOR CURRENT PERIOD.--Maximum discharge, 2,830 ft^3/s, June 18, 2005, gage height, 21.44 ft; maximum gage height, 21.74 ft, June 6, 2005, (backwater from ice); minimum discharge, 0.0 ft^3/s December 2, 2004 to June 4, 2005.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e345	e95	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1200	364	201
2	e340	e90	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1150	353	198
3	e330	e85	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1080	340	201
4	e320	e80	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1020	328	204
5	e310	e75	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e2.0	970	319	202
6	e300	e70	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e6.0	955	307	200
7	e290	e65	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e20	930	303	194
8	e280	e60	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e60	875	308	192
9	e270	e55	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e200	849	318	193
10	e260	e50	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e700	836	318	186
11	e250	e45	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e2030	825	313	186
12	e245	e40	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e1600	819	304	184
13	e240	e40	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e1270	804	295	176
14	e230	e35	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1840	774	280	172
15	e220	e30	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2080	748	267	175
16	e210	e30	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1970	722	263	171
17	e200	e25	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2330	683	257	167
18	e190	e20	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2740	652	252	171
19	e180	e20	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2670	624	243	177
20	e175	e15	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2420	595	237	165
21	e170	e15	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2460	562	232	162
22	e160	e10	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2240	544	226	174
23	e150	e9.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2020	518	222	170
24	e145	e8.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1850	491	215	166
25	e140	e7.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1720	474	213	160
26	e135	e6.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1630	460	213	161
27	e130	e5.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1540	442	209	e155
28	e125	e4.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1460	422	211	e150
29	e120	e3.0	e0.00	e0.00	---	e0.00	e0.00	e0.00	1380	405	207	e145
30	e110	e2.0	e0.00	e0.00	---	e0.00	e0.00	e0.00	1300	391	207	e140
31	e100	---	e0.00	e0.00	---	e0.00	---	e0.00	---	376	206	---
TOTAL	6670	1094.0	1.00	0.00	0.00	0.00	0.00	0.00	39538.00	22196	8330	5298
MEAN	215	36.5	0.03	0.00	0.00	0.00	0.00	0.00	1318	716	269	177
MAX	345	95	1.0	0.00	0.00	0.00	0.00	0.00	2740	1200	364	204
MIN	100	2.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	376	206	140
AC-FT	13230	2170	2.0	0.00	0.00	0.00	0.00	0.00	78420	44030	16520	10510
CFSM	0.27	0.05	0.00	0.00	0.00	0.00	0.00	0.00	1.67	0.91	0.34	0.22
IN.	0.32	0.05	0.00	0.00	0.00	0.00	0.00	0.00	1.87	1.05	0.39	0.25

e Estimated

15861000 JUDY CREEK NEAR NUIQSUT

LOCATION.--Lat 70°13'14", long 151°50'05", in NE¼ NE¼ SE¼ sec. 15, T. 10 N., R. 1 E. (Harrison Bay A-4 quad), Hydrologic Unit 19060205, on left bank, 6 mi upstream from mouth, and 20 mi west of Nuiqsut.

DRAINAGE AREA.--639 mi^2.

PERIOD OF RECORD.--October 2004 to September 2005.

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

REMARKS.--Records poor. GOES satellite telemetry at station.

EXTREMES FOR CURRENT PERIOD.--Maximum daily discharge, 5,390 ft^3/s, June 9; maximum instantaneous discharge not determined; maximum gage height, 27.47 ft, June 6 (backwater from ice); minimum discharge, 0.0 ft^3/s, November 18, 2004 to June 1, 2005.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e90	e15	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	450	84	65
2	e85	e10	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e1.0	423	79	64
3	e80	e10	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e2.0	391	75	67
4	e80	e9.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e4.0	376	72	69
5	e75	e8.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e20	382	71	69
6	e75	e7.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e100	372	69	69
7	e70	e6.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e800	354	71	68
8	e70	e5.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e3000	332	74	66
9	e70	e4.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e5390	313	86	69
10	e65	e3.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	4730	309	92	68
11	e65	e3.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	4030	325	91	69
12	e65	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	3460	343	89	67
13	e60	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	3120	357	85	60
14	e60	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2860	429	79	59
15	e55	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2830	490	73	63
16	e55	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2540	361	72	64
17	e50	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2390	299	70	61
18	e50	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	2220	261	70	63
19	e45	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1860	232	68	66
20	e45	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1600	209	66	59
21	e40	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1410	183	63	59
22	e35	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1200	165	62	70
23	e35	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	1030	150	63	67
24	e30	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	908	137	61	64
25	e30	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	808	128	60	60
26	e25	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	718	121	62	57
27	e25	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	645	112	63	e55
28	e20	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	587	104	67	e55
29	e20	e0.00	e0.00	e0.00	---	e0.00	e0.00	e0.00	535	96	66	e50
30	e15	e0.00	e0.00	e0.00	---	e0.00	e0.00	e0.00	490	92	65	e50
31	e15	---	e0.00	e0.00	---	e0.00	---	e0.00	---	88	65	---
TOTAL	1600	89.00	0.00	0.00	0.00	0.00	0.00	0.00	49288.00	8384	2233	1892
MEAN	51.6	2.97	0.00	0.00	0.00	0.00	0.00	0.00	1643	270	72.0	63.1
MAX	90	15	0.00	0.00	0.00	0.00	0.00	0.00	5390	490	92	70
MIN	15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	88	60	50
AC-FT	3170	177	0.00	0.00	0.00	0.00	0.00	0.00	97760	16630	4430	3750
CFSM	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.57	0.42	0.11	0.10
IN.	0.09	0.01	0.00	0.00	0.00	0.00	0.00	0.00	2.87	0.49	0.13	0.11

e Estimated

15875000 COLVILLE RIVER AT UMIAT

LOCATION.--Lat 69°21'38", long 152°07'18", in NW¼, sec. 15, T. 1 S., R. 1 W. (Umiat B-4 quad), Hydrologic Unit 19060303, on left bank, 1 mile upstream from Seabee Creek, and 1.0 mile east of Umiat.

DRAINAGE AREA.--13,830 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 2002 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 275 ft above sea level, from topographic map.

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

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e1900	e220	e85	e35	e9.5	e0.50	e0.00	e0.00	104000	16800	3430	7190
2	e1600	e210	e80	e35	e9.0	e0.00	e0.00	e0.00	88200	24600	3250	6490
3	e1300	e200	e80	e30	e8.5	e0.00	e0.00	e0.00	72800	23300	3070	5750
4	e976	e200	e80	e30	e8.0	e0.00	e0.00	e0.00	66600	17700	2930	5100
5	e900	e190	e75	e30	e7.5	e0.00	e0.00	e3.0	80900	13800	2850	5740
6	e800	e190	e75	e30	e7.0	e0.00	e0.00	e4.0	117000	11300	2820	7260
7	e700	e180	e70	e30	e6.5	e0.00	e0.00	e5.0	154000	9760	2810	6630
8	e650	e180	e70	e25	e6.0	e0.00	e0.00	e8.0	171000	9920	2950	5880
9	e600	e170	e65	e25	e5.5	e0.00	e0.00	e10	146000	10800	3010	5140
10	e575	e160	e65	e25	e5.5	e0.00	e0.00	e15	131000	11600	3370	4570
11	e550	e160	e65	e25	e5.0	e0.00	e0.00	e20	139000	19500	5310	4150
12	e500	e150	e60	e23	e4.5	e0.00	e0.00	e30	114000	33600	6040	3700
13	e475	e150	e60	e23	e4.0	e0.00	e0.00	e50	96800	33300	5690	3320
14	e450	e140	e60	e20	e4.0	e0.00	e0.00	e70	97700	25500	e4800	3180
15	e425	e140	e55	e20	e3.5	e0.00	e0.00	e100	103000	20500	e4300	3140
16	e400	e130	e55	e20	e3.5	e0.00	e0.00	e200	97100	16600	e4000	3580
17	e380	e130	e55	e20	e3.0	e0.00	e0.00	e400	86800	13800	e3700	e8200
18	e360	e130	e50	e20	e2.5	e0.00	e0.00	e800	82400	12100	3440	e8000
19	e350	e120	e50	e20	e2.5	e0.00	e0.00	e1500	68900	13900	3150	e7800
20	e340	e120	e50	e15	e2.5	e0.00	e0.00	e3000	52300	16100	3010	7420
21	e330	e120	e50	e15	e2.0	e0.00	e0.00	e5000	38000	13600	2950	6930
22	e320	e110	e45	e15	e2.0	e0.00	e0.00	e9000	27600	11500	e2900	6550
23	e300	e110	e45	e15	e1.5	e0.00	e0.00	e14000	21500	9690	e2950	7140
24	e290	e100	e45	e15	e1.5	e0.00	e0.00	e19000	18900	8030	e3000	6930
25	e280	e100	e40	e15	e1.0	e0.00	e0.00	e23000	15500	6700	e3100	6340
26	e270	e100	e40	e15	e1.0	e0.00	e0.00	e26000	13100	5850	e3500	6560
27	e260	e95	e40	e15	e1.0	e0.00	e0.00	28200	12100	5180	e4000	7320
28	e250	e90	e40	e10	e0.50	e0.00	e0.00	35900	11200	4670	e5000	e7000
29	e250	e90	e35	e10	---	e0.00	e0.00	59700	10800	4260	e9900	e6800
30	e240	e85	e35	e10	---	e0.00	e0.00	75900	11300	3920	9130	e6600
31	e230	---	e35	e10	---	e0.00	---	95900	---	3670	8080	---
TOTAL	17251	4270	1755	646	118.50	0.50	0.00	397815.00	2249500	431550	128440	180410
MEAN	556	142	56.6	20.8	4.23	0.02	0.00	12830	74980	13920	4143	6014
MAX	1900	220	85	35	9.5	0.50	0.00	95900	171000	33600	9900	8200
MIN	230	85	35	10	0.50	0.00	0.00	0.00	10800	3670	2810	3140
AC-FT	34220	8470	3480	1280	235	1.0	0.00	789100	4462000	856000	254800	357800
CFSM	0.04	0.01	0.00	0.00	0.00	0.00	0.00	0.93	5.42	1.01	0.30	0.43
IN.	0.05	0.01	0.00	0.00	0.00	0.00	0.00	1.07	6.05	1.16	0.35	0.49
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2005, BY WATER YEAR (WY)#												
MEAN	6090	516	76.4	10.4	2.14	0.06	0.00	18550	55890	17750	20270	12970
MAX	10490	844	100	20.8	4.23	0.16	0.00	42120	74980	24030	31800	21030
(WY)	2004	2003	2003	2005	2005	2004	2003	2004	2005	2003	2003	2002
MIN	556	142	56.6	3.55	0.00	0.00	0.00	690	24940	13920	4143	6014
(WY)	2005	2005	2005	2003	2003	2003	2003	2003	2004	2005	2005	2005

\# See Period of Record; partial year was used in monthly statistics.
e Estimated

15875000 COLVILLE RIVER AT UMIAT—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 2002 - 2005#	
ANNUAL TOTAL	3685071.00		3411756.00			
ANNUAL MEAN	10070		9347		10800	
HIGHEST ANNUAL MEAN					12110	2003
LOWEST ANNUAL MEAN					9347	2005
HIGHEST DAILY MEAN	227000	May 24	171000	Jun 8	227000	May 24 2004
LOWEST DAILY MEAN	a0.00	Mar 6	b0.00	Mar 2	c0.00	Jan 19 2003
ANNUAL SEVEN-DAY MINIMUM	0.00	Mar 6	0.00	Mar 2	0.00	Jan 19 2003
MAXIMUM PEAK FLOW			179000	Jun 8	261000	May 24 2004
MAXIMUM PEAK STAGE			57.17	Jun 8	58.86	May 24 2004
ANNUAL RUNOFF (AC-FT)	7309000		6767000		7825000	
ANNUAL RUNOFF (CFSM)	0.728		0.676		0.781	
ANNUAL RUNOFF (INCHES)	9.91		9.18		10.61	
10 PERCENT EXCEEDS	26300		19900		27300	
50 PERCENT EXCEEDS	130		140		275	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

\# See Period of Record; partial year was used in monthly statistics.
a Mar. 6 to May 9
b Mar. 2 to May 4
c No flow during winter months

15875000 COLVILLE RIVER AT UMIAT—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1953, 1969, 1975, 1978, 2002 to current year.

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

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

REMARKS.--No record from October 1 to May 15, August 14 - 17, 21 - 29, and September 17 - 19, 27 - 30 due to water levels dropping below the sensor, the sensor encased in ice, or equipment malfunctions. 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 July 27. A variation of 0.1°C was found in the cross section. The variation found between mean stream temperature and the recorded sensor temperature was 1.8°C. This difference is due to the location of the sensor which is in a backwater area of the stream during moderate to low flows.

EXTREMES FOR PERIOD OF RECORD.--
WATER TEMPERATURE: Maximum, 18.5°C, July 2 and 26, 2004; minimum, 0.0°C on many days during winter periods.

EXTREMES FOR CURRENT YEAR.--
WATER TEMPERATURE: Maximum, 15.5°C, July 26; minimum recorded 0.5°C, May 16-22.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Stream width, feet (00004)	Location in X-sect. looking dwnstrm ft from l bank (00009)	Gage height, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Temperature, water, deg C (00010)	Temperature, air, deg C (00020)
JUL								
27...	1247	384	40.0	43.91	5200	10	12.7	13.5
27...	1248	384	120	43.91	5200	10	12.7	13.5
27...	1249	384	200	43.91	5200	10	12.7	13.5
27...	1250	384	280	43.91	5200	10	12.7	13.5
27...	1251	384	360	43.91	5200	10	12.8	13.5

WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

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	---	---	---	---	---	---	---	---	---	0.5	0.5	0.5
17	---	---	---	---	---	---	---	---	---	0.5	0.0	0.5
18	---	---	---	---	---	---	---	---	---	0.5	0.5	0.5
19	---	---	---	---	---	---	---	---	---	0.5	0.5	0.5
20	---	---	---	---	---	---	---	---	---	1.0	0.5	0.5
21	---	---	---	---	---	---	---	---	---	0.5	0.5	0.5
22	---	---	---	---	---	---	---	---	---	0.5	0.5	0.5
23	---	---	---	---	---	---	---	---	---	1.0	0.5	0.5
24	---	---	---	---	---	---	---	---	---	1.5	0.5	0.5
25	---	---	---	---	---	---	---	---	---	1.0	0.5	0.5
26	---	---	---	---	---	---	---	---	---	1.5	0.5	0.5
27	---	---	---	---	---	---	---	---	---	1.5	0.5	0.5
28	---	---	---	---	---	---	---	---	---	2.0	0.5	1.0
29	---	---	---	---	---	---	---	---	---	2.5	1.0	2.0
30	---	---	---	---	---	---	---	---	---	2.5	2.0	2.0
31	---	---	---	---	---	---	---	---	---	3.0	2.0	2.5
MONTH	---	---	---	---	---	---	---	---	---	---	---	---

15875000 COLVILLE RIVER AT UMIAT—Continued

WATER TEMPERATURE, (DEGREES CELSIUS), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

DAY	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN	MAX	MIN	MEAN
		JUNE			JULY			AUGUST			SEPTEMBER	
1	3.0	2.0	2.5	14.5	10.5	12.5	12.0	8.0	10.0	10.0	7.5	8.5
2	3.0	2.0	2.5	14.0	11.5	13.0	12.5	8.0	10.0	9.0	8.5	8.5
3	2.0	1.5	1.5	11.5	10.0	10.5	13.0	8.5	10.5	9.0	8.0	8.5
4	2.0	1.5	1.5	10.5	8.5	9.5	12.5	---	10.5	8.5	8.0	8.0
5	4.0	1.5	2.0	9.5	8.5	9.0	10.5	8.5	9.5	8.5	6.0	7.5
6	5.0	3.0	4.5	9.0	7.0	8.0	12.0	9.0	10.0	7.0	5.0	6.0
7	4.5	2.0	4.0	11.5	6.0	9.0	11.0	9.0	10.0	8.0	7.0	7.5
8	4.5	3.5	3.5	10.0	7.0	8.0	12.0	8.5	10.0	9.0	7.0	7.5
9	4.0	3.0	3.5	9.5	7.5	8.5	12.0	9.5	10.5	7.0	4.5	5.5
10	4.0	3.5	3.5	9.0	7.5	8.0	13.0	9.0	10.5	8.5	6.0	7.0
11	4.5	3.5	4.0	11.0	8.5	10.0	11.0	9.5	10.0	7.0	5.5	6.5
12	4.5	3.5	4.0	11.0	10.0	10.5	14.0	9.5	11.0	7.5	5.0	6.0
13	5.5	4.0	4.5	12.0	10.0	11.0	14.0	10.5	12.5	7.5	6.0	6.5
14	7.5	5.0	6.0	13.0	11.5	12.0	---	---	---	6.5	6.0	6.5
15	8.5	7.0	7.5	13.5	12.0	12.5	---	---	---	7.5	6.0	6.5
16	9.5	8.0	8.5	13.5	11.5	12.5	---	---	---	7.5	5.0	6.0
17	9.5	8.5	9.0	12.5	11.0	11.5	---	---	---	---	---	---
18	10.0	8.5	9.0	12.0	9.5	10.5	11.5	7.0	9.0	---	---	---
19	10.5	9.5	10.0	12.5	9.0	11.0	12.5	7.5	10.0	---	---	---
20	10.0	9.0	9.5	12.0	10.0	11.0	13.0	7.5	10.5	5.5	5.0	5.5
21	10.0	8.5	9.5	12.0	9.0	10.5	---	---	---	6.0	5.0	5.5
22	9.5	8.0	8.5	13.0	9.5	11.0	---	---	---	5.0	4.0	4.5
23	9.5	8.0	8.5	13.5	9.5	11.5	---	---	---	5.5	4.0	4.5
24	10.5	8.5	9.5	13.5	9.0	11.0	---	---	---	5.5	4.5	5.0
25	12.0	9.0	10.5	13.5	8.5	10.5	---	---	---	4.5	3.0	3.5
26	13.0	9.5	11.0	15.5	7.5	11.5	---	---	---	3.0	2.5	2.5
27	12.5	10.5	11.5	12.0	6.5	10.0	---	---	---	3.5	---	---
28	15.0	11.5	13.0	12.0	8.5	10.0	---	---	---	---	---	---
29	15.0	13.0	14.0	11.5	8.0	10.0	---	---	---	---	---	---
30	13.5	10.5	12.0	11.0	8.5	9.5	10.0	8.5	9.0	---	---	---
31	---	---	---	12.0	8.0	9.5	9.5	8.5	8.5	---	---	---
MONTH	15.0	1.5	7.0	15.5	6.0	10.4	---	---	---	---	---	---

15896000 KUPARUK RIVER NEAR DEADHORSE

LOCATION.--Lat 70°16'54", long 148°57'35", in NE$^{1}/_{4}$ 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, 3 miles upstream of Spine Road, 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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e730	e250	e35	e3.0	e0.0	e0.0	e0.0	e0.0	e9000	1020	393	162
2	e720	e240	e30	e3.0	e0.0	e0.0	e0.0	e0.0	e9400	1000	364	174
3	e710	e220	e30	e2.0	e0.0	e0.0	e0.0	e0.0	e10000	1050	342	167
4	e700	e200	e25	e2.0	e0.0	e0.0	e0.0	e0.0	e11500	1030	330	158
5	e690	e190	e25	e2.0	e0.0	e0.0	e0.0	e0.0	e14000	999	317	153
6	e680	e180	e25	e2.0	e0.0	e0.0	e0.0	e0.0	19700	1020	310	146
7	e670	e160	e20	e1.0	e0.0	e0.0	e0.0	e0.0	29500	1000	299	156
8	e660	e150	e20	e1.0	e0.0	e0.0	e0.0	e0.0	32100	1010	292	156
9	e650	e140	e20	e1.0	e0.0	e0.0	e0.0	e0.0	33500	1020	316	140
10	e640	e130	e15	e1.0	e0.0	e0.0	e0.0	e0.0	32200	1130	309	145
11	e630	e120	e15	e0.0	e0.0	e0.0	e0.0	e0.0	26100	1230	303	140
12	e620	e110	e15	e0.0	e0.0	e0.0	e0.0	e0.0	21300	1690	289	144
13	e610	e100	e15	e0.0	e0.0	e0.0	e0.0	e0.0	16300	3380	269	153
14	e600	e90	e10	e0.0	e0.0	e0.0	e0.0	e0.0	12300	3820	253	147
15	e580	e85	e10	e0.0	e0.0	e0.0	e0.0	e0.0	11000	3590	250	131
16	e560	e80	e10	e0.0	e0.0	e0.0	e0.0	e0.0	11300	2980	237	124
17	e540	e75	e9.0	e0.0	e0.0	e0.0	e0.0	e0.0	9010	2250	228	130
18	e520	e70	e8.0	e0.0	e0.0	e0.0	e0.0	e0.0	6760	1740	219	114
19	e500	e65	e8.0	e0.0	e0.0	e0.0	e0.0	e20	5530	1420	213	106
20	e480	e60	e7.0	e0.0	e0.0	e0.0	e0.0	e40	4390	1180	206	121
21	e460	e60	e7.0	e0.0	e0.0	e0.0	e0.0	e80	3360	1030	196	133
22	e440	e55	e6.0	e0.0	e0.0	e0.0	e0.0	e200	2640	916	194	113
23	e420	e50	e6.0	e0.0	e0.0	e0.0	e0.0	e400	2160	827	185	119
24	e400	e50	e5.0	e0.0	e0.0	e0.0	e0.0	e700	1760	740	186	118
25	e390	e45	e5.0	e0.0	e0.0	e0.0	e0.0	e1200	1520	660	181	119
26	e370	e45	e5.0	e0.0	e0.0	e0.0	e0.0	e1800	1410	603	180	e120
27	e350	e40	e4.0	e0.0	e0.0	e0.0	e0.0	e2800	1290	558	175	e115
28	e330	e40	e4.0	e0.0	e0.0	e0.0	e0.0	e4300	1190	510	159	e110
29	e310	e35	e4.0	e0.0	---	e0.0	e0.0	e6000	1120	480	162	e105
30	e290	e35	e3.0	e0.0	---	e0.0	e0.0	e7200	1070	441	162	e100
31	e270	---	e3.0	e0.0	---	e0.0	---	e8300	---	415	159	---
TOTAL	16520	3170	404.0	18.0	0.0	0.0	0.0	33040.0	342410	40739	7678	4019
MEAN	533	106	13.0	0.58	0.00	0.00	0.00	1066	11410	1314	248	134
MAX	730	250	35	3.0	0.0	0.0	0.0	8300	33500	3820	393	174
MIN	270	35	3.0	0.0	0.0	0.0	0.0	0.0	1070	415	159	100
MED	560	82	10	0.0	0.0	0.0	0.0	0.0	9210	1020	237	132
AC-FT	32770	6290	801	36	0.00	0.00	0.00	65530	679200	80810	15230	7970
CFSM	0.17	0.03	0.00	0.00	0.00	0.00	0.00	0.34	3.65	0.42	0.08	0.04
IN.	0.20	0.04	0.00	0.00	0.00	0.00	0.00	0.39	4.07	0.48	0.09	0.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2005, BY WATER YEAR (WY)#

MEAN	294	26.8	3.05	0.92	0.88	0.88	0.88	1679	10420	1223	1793	1581
MAX	1675	174	24.3	10.0	10.0	10.0	10.0	8877	26360	3309	5229	4863
(WY)	2003	1973	1973	1972	1972	1972	1972	1996	1982	2003	2002	1997
MIN	10.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00	726	300	127	134
(WY)	1975	1977	1976	1976	1975	1975	1975	1975	1990	1971	1990	2005

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1971 - 2005#	
ANNUAL TOTAL	668723.0		447998.0			
ANNUAL MEAN	1827		1227		1403	
HIGHEST ANNUAL MEAN					2304	1982
LOWEST ANNUAL MEAN					658	1974
HIGHEST DAILY MEAN	30000	Jun 3	33500	Jun 9	100000	Jun 7 1978
LOWEST DAILY MEAN	a0.0	Jan 1	b0.0	Jan 11	c0.0	Feb 1 1975
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Jan 11	0.00	Feb 1 1975
MAXIMUM PEAK FLOW			34900	Jun 9	118000	Jun 7 1978
MAXIMUM PEAK STAGE			33.30	Jun 9	37.60	Jun 7 1978
ANNUAL RUNOFF (AC-FT)	1326000		888600		1016000	
ANNUAL RUNOFF (CFSM)	0.584		0.392		0.448	
ANNUAL RUNOFF (INCHES)	7.95		5.32		6.09	
10 PERCENT EXCEEDS	4600		1710		2890	
50 PERCENT EXCEEDS	62		65		10	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

\# See Period of Record; partial years used in monthly statistics
a From Jan. 1 to May 18
b From Jan. 11 to May 18
c No flow during winter months
e Estimated

15904800 ATIGUN RIVER NEAR PUMP STATION 4

LOCATION.--Lat 68°12'54", long 149°24'13", in SW¼, sec. 20, T. 14 S., R. 12 E. (Phillip Smith Mt. A-5 quad), North Slope Borough, Hydrologic Unit 19060402, on left bank, upstream of bridge at mi 254.6 on Dalton Highway, and 15 mi south of Pump Station 4.

DRAINAGE AREA.--48.7 mi^2.

PERIOD OF RECORD.--October 1991 to September 1995, October 2000 to current year.

GAGE.--Water-stage recorder. Elevation is 3,150 ft above sea level, from topographic map.

REMARKS.--Records 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 Science Center, Water Resources Office. GOES satellite telemetry at station.

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e16	e3.6	e0.3	e0.00	e0.00	e0.00	e0.00	e0.00	e8.0	147	91	34
2	e16	e3.4	e0.3	e0.00	e0.00	e0.00	e0.00	e0.00	e15	124	94	33
3	e15	e3.2	e0.3	e0.00	e0.00	e0.00	e0.00	e0.00	e30	118	101	34
4	e15	e3.0	e0.2	e0.00	e0.00	e0.00	e0.00	e0.00	e60	124	100	34
5	e14	e2.8	e0.2	e0.00	e0.00	e0.00	e0.00	e0.00	e140	109	94	34
6	e14	e2.6	e0.2	e0.00	e0.00	e0.00	e0.00	e0.00	e300	83	82	34
7	e13	e2.4	e0.2	e0.00	e0.00	e0.00	e0.00	e0.00	e330	72	74	34
8	e12	e2.3	e0.2	e0.00	e0.00	e0.00	e0.00	e0.00	e320	64	73	33
9	e12	e2.1	e0.1	e0.00	e0.00	e0.00	e0.00	e0.00	e300	58	74	33
10	e11	e1.9	e0.1	e0.00	e0.00	e0.00	e0.00	e0.00	e270	59	94	33
11	e11	e1.8	e0.1	e0.00	e0.00	e0.00	e0.00	e0.00	e230	94	113	33
12	e10	e1.7	e0.1	e0.00	e0.00	e0.00	e0.00	e0.00	e200	143	114	32
13	e10	e1.5	e0.1	e0.00	e0.00	e0.00	e0.00	e0.00	198	131	132	30
14	e9.6	e1.4	e0.1	e0.00	e0.00	e0.00	e0.00	e0.00	206	129	180	29
15	e9.2	e1.3	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	170	139	156	29
16	e8.8	e1.2	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	192	134	113	28
17	e8.4	e1.1	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	272	148	89	27
18	e8.0	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	257	152	74	26
19	e7.6	e0.9	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	215	130	64	25
20	e7.2	e0.9	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	205	135	56	24
21	e6.8	e0.8	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	216	133	51	23
22	e6.4	e0.7	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	213	110	46	22
23	e6.2	e0.7	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	227	117	44	21
24	e5.8	e0.6	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	188	142	40	21
25	e5.6	e0.6	e0.00	e0.00	e0.00	e0.00	e0.00	e0.1	194	132	39	20
26	e5.2	e0.5	e0.00	e0.00	e0.00	e0.00	e0.00	e0.2	169	115	37	19
27	e4.9	e0.5	e0.00	e0.00	e0.00	e0.00	e0.00	e0.3	138	113	36	19
28	e4.6	e0.4	e0.00	e0.00	e0.00	e0.00	e0.00	e0.8	112	110	35	18
29	e4.3	e0.4	e0.00	e0.00	---	e0.00	e0.00	e1.5	128	112	34	18
30	e4.1	e0.4	e0.00	e0.00	---	e0.00	e0.00	e3.0	153	109	34	18
31	e3.9	---	e0.00	e0.00	---	e0.00	---	e5.0	---	98	34	---
TOTAL	285.6	45.7	2.50	0.00	0.00	0.00	0.00	10.90	5656.0	3584	2398	818
MEAN	9.21	1.52	0.08	0.00	0.00	0.00	0.00	0.35	189	116	77.4	27.3
MAX	16	3.6	0.3	0.00	0.00	0.00	0.00	5.0	330	152	180	34
MIN	3.9	0.4	0.00	0.00	0.00	0.00	0.00	0.00	8.0	58	34	18
AC-FT	566	91	5.0	0.00	0.00	0.00	0.00	22	11220	7110	4760	1620
CFSM	0.19	0.03	0.00	0.00	0.00	0.00	0.00	0.01	3.87	2.37	1.59	0.56
IN.	0.22	0.03	0.00	0.00	0.00	0.00	0.00	0.01	4.32	2.74	1.83	0.62

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2001, BY WATER YEAR (WY)#

MEAN	11.0	2.85	0.28	0.00	0.00	0.00	0.00	17.1	248	191	158	55.8
MAX	19.6	4.27	0.84	0.00	0.00	0.00	0.00	26.3	275	339	204	96.0
(WY)	1994	1993	1993	1992	1992	1992	1992	1993	1992	1994	1994	1993
MIN	6.42	1.52	0.06	0.00	0.00	0.00	0.00	0.35	189	116	77.4	27.3
(WY)	1993	2001	1995	1992	1992	1992	1992	2001	2001	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 WATER YEAR		WATER YEARS 1992 - 2001#	
ANNUAL TOTAL	12800.70			
ANNUAL MEAN	35.1		57.2	
HIGHEST ANNUAL MEAN			76.4	1994
LOWEST ANNUAL MEAN			35.1	2001
HIGHEST DAILY MEAN	330	Jun 7	1100	Aug 27 1994
LOWEST DAILY MEAN	a0.00	Dec 15	b0.00	Dec 6 1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Dec 15	0.00	Dec 6 1991
MAXIMUM PEAK FLOW	365	Jun 7	1500	Aug 27 1994
MAXIMUM PEAK STAGE	23.82	Jun 7	c17.80	Aug 27 1994
ANNUAL RUNOFF (AC-FT)	25390		41420	
ANNUAL RUNOFF (CFSM)	0.720		1.17	
ANNUAL RUNOFF (INCHES)	9.78		15.95	
10 PERCENT EXCEEDS	132		196	
50 PERCENT EXCEEDS	0.50		2.1	
90 PERCENT EXCEEDS	0.00		0.00	

\# See Period of Record; break in record
a From Dec. 15 to May 24
b No flow during winter months
c At datum then in use
e Estimated

15904800 ATIGUN RIVER NEAR PUMP STATION 4—Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	17	e6.0	e1.6	e0.00	e0.00	e0.00	e0.00	e0.00	48	146	75	95
2	17	e5.8	e1.5	e0.00	e0.00	e0.00	e0.00	e0.00	53	157	77	91
3	16	e5.8	e1.4	e0.00	e0.00	e0.00	e0.00	e0.00	58	148	84	88
4	16	e5.6	e1.3	e0.00	e0.00	e0.00	e0.00	e0.00	67	131	90	86
5	16	e5.4	e1.2	e0.00	e0.00	e0.00	e0.00	e0.00	77	120	96	94
6	16	e5.2	e1.1	e0.00	e0.00	e0.00	e0.00	e0.00	95	113	90	195
7	15	e5.0	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	116	129	86	172
8	e14	e4.8	e0.90	e0.00	e0.00	e0.00	e0.00	e0.00	127	160	83	143
9	e14	e4.6	e0.90	e0.00	e0.00	e0.00	e0.00	e0.00	142	144	84	126
10	e13	e4.4	e0.80	e0.00	e0.00	e0.00	e0.00	e0.00	142	132	82	108
11	e12	e4.4	e0.70	e0.00	e0.00	e0.00	e0.00	e0.00	134	127	86	92
12	e12	e4.2	e0.60	e0.00	e0.00	e0.00	e0.00	e0.00	115	139	94	81
13	e12	e4.2	e0.60	e0.00	e0.00	e0.00	e0.00	e0.00	119	151	107	77
14	e11	e4.0	e0.50	e0.00	e0.00	e0.00	e0.00	e0.00	126	148	106	76
15	e11	e3.8	e0.40	e0.00	e0.00	e0.00	e0.00	e0.00	123	140	121	74
16	e10	e3.8	e0.40	e0.00	e0.00	e0.00	e0.00	e0.50	129	137	146	72
17	e10	e3.6	e0.30	e0.00	e0.00	e0.00	e0.00	e1.0	139	134	133	69
18	e9.6	e3.5	e0.30	e0.00	e0.00	e0.00	e0.00	e2.0	121	130	121	68
19	e9.2	e3.3	e0.30	e0.00	e0.00	e0.00	e0.00	e4.0	126	131	112	67
20	e8.8	e3.2	e0.20	e0.00	e0.00	e0.00	e0.00	e7.0	125	134	103	64
21	e8.6	e3.0	e0.20	e0.00	e0.00	e0.00	e0.00	e11	114	131	95	62
22	e8.2	e2.9	e0.20	e0.00	e0.00	e0.00	e0.00	e15	111	128	88	60
23	e8.0	e2.8	e0.20	e0.00	e0.00	e0.00	e0.00	e22	147	122	84	59
24	e7.8	e2.6	e0.10	e0.00	e0.00	e0.00	e0.00	e28	156	116	80	57
25	e7.6	e2.5	e0.10	e0.00	e0.00	e0.00	e0.00	e32	155	115	79	57
26	e7.2	e2.3	e0.10	e0.00	e0.00	e0.00	e0.00	e33	177	112	81	56
27	e7.0	e2.2	e0.00	e0.00	e0.00	e0.00	e0.00	e30	183	101	89	58
28	e6.8	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e26	166	90	96	57
29	e6.6	e1.9	e0.00	e0.00	---	e0.00	e0.00	e28	143	84	104	56
30	e6.4	e1.7	e0.00	e0.00	---	e0.00	e0.00	e38	148	78	104	55
31	e6.2	---	e0.00	e0.00	---	e0.00	---	47	---	76	100	---
TOTAL	340.0	114.5	16.90	0.00	0.00	0.00	0.00	324.50	3682	3904	2976	2515
MEAN	11.0	3.82	0.55	0.00	0.00	0.00	0.00	10.5	123	126	96.0	83.8
MAX	17	6.0	1.6	0.00	0.00	0.00	0.00	47	183	160	146	195
MIN	6.2	1.7	0.00	0.00	0.00	0.00	0.00	0.00	48	76	75	55
AC-FT	674	227	34	0.00	0.00	0.00	0.00	644	7300	7740	5900	4990
CFSM	0.23	0.08	0.01	0.00	0.00	0.00	0.00	0.21	2.52	2.59	1.97	1.72
IN.	0.26	0.09	0.01	0.00	0.00	0.00	0.00	0.25	2.81	2.98	2.27	1.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2002, BY WATER YEAR (WY)#

MEAN	11.0	3.01	0.32	0.00	0.00	0.00	0.00	15.8	223	178	145	61.4
MAX	19.6	4.27	0.84	0.00	0.00	0.00	0.00	26.3	275	339	204	96.0
(WY)	1994	1993	1993	1992	1992	1992	1992	1993	1992	1994	1994	1993
MIN	6.42	1.52	0.06	0.00	0.00	0.00	0.00	0.35	123	116	77.4	27.3
(WY)	1993	2001	1995	1992	1992	1992	1992	2001	2002	2001	2001	2001

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1992 - 2002#	
ANNUAL TOTAL	12938.30		13872.90			
ANNUAL MEAN	35.4		38.0		53.3	
HIGHEST ANNUAL MEAN					76.4	1994
LOWEST ANNUAL MEAN					35.1	2001
HIGHEST DAILY MEAN	330	Jun 7	195	Sep 6	1100	Aug 27 1994
LOWEST DAILY MEAN	a0.00	Jan 1	b0.00	Dec 27	c0.00	Dec 6 1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Dec 27	0.00	Dec 6 1991
MAXIMUM PEAK FLOW			216	Sep 6	1500	Aug 27 1994
MAXIMUM PEAK STAGE			24.39	Sep 6	d17.80	Aug 27 1994
MAXIMUM PEAK STAGE			f25.77	May 24		
ANNUAL RUNOFF (AC-FT)	25660		27520		38640	
ANNUAL RUNOFF (CFSM)	0.728		0.780		1.10	
ANNUAL RUNOFF (INCHES)	9.88		10.60		14.88	
10 PERCENT EXCEEDS	132		128		165	
50 PERCENT EXCEEDS	2.0		3.6		3.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

\# See Period of Record; break in record
a From Jan. 1 to May 24 and Dec. 27 to 31
b From Dec. 27 to May 15
c No flow during winter months
d At datum then in use
e Estimated
f Backwater from snow and ice

15904800 ATIGUN RIVER NEAR PUMP STATION 4—Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	55	e11	e2.5	e0.00	e0.00	e0.00	e0.00	e0.00	e70	278	182	105
2	55	e10	e2.4	e0.00	e0.00	e0.00	e0.00	e0.00	e80	311	182	106
3	54	e10	e2.3	e0.00	e0.00	e0.00	e0.00	e0.00	e90	340	179	127
4	53	e9.0	e2.2	e0.00	e0.00	e0.00	e0.00	e0.00	e110	235	171	122
5	e52	e8.6	e2.1	e0.00	e0.00	e0.00	e0.00	e0.00	e240	217	170	109
6	e50	e8.2	e2.0	e0.00	e0.00	e0.00	e0.00	e0.00	e310	217	166	87
7	e48	e7.6	e1.9	e0.00	e0.00	e0.00	e0.00	e0.00	e380	214	159	78
8	e48	e7.2	e1.8	e0.00	e0.00	e0.00	e0.00	e0.00	402	203	154	71
9	e46	e7.0	e1.7	e0.00	e0.00	e0.00	e0.00	e0.00	417	204	149	64
10	e44	e6.6	e1.6	e0.00	e0.00	e0.00	e0.00	e0.00	468	208	163	59
11	e42	e6.2	e1.5	e0.00	e0.00	e0.00	e0.00	e0.00	418	209	194	55
12	e42	e6.0	e1.4	e0.00	e0.00	e0.00	e0.00	e0.00	399	204	222	52
13	e40	e5.6	e1.3	e0.00	e0.00	e0.00	e0.00	e0.00	356	196	252	46
14	e38	e5.4	e1.2	e0.00	e0.00	e0.00	e0.00	e0.00	318	199	241	41
15	e36	e5.2	e1.1	e0.00	e0.00	e0.00	e0.00	e0.00	311	196	214	39
16	e34	e5.0	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	345	193	208	38
17	e32	e4.6	e0.9	e0.00	e0.00	e0.00	e0.00	e0.00	346	193	267	35
18	e30	e4.4	e0.8	e0.00	e0.00	e0.00	e0.00	e0.00	328	190	219	34
19	e28	e4.2	e0.7	e0.00	e0.00	e0.00	e0.00	e0.00	314	207	196	32
20	e26	e4.0	e0.6	e0.00	e0.00	e0.00	e0.00	e0.00	299	217	179	29
21	e24	e3.8	e0.5	e0.00	e0.00	e0.00	e0.00	e0.00	297	216	166	28
22	e22	e3.7	e0.4	e0.00	e0.00	e0.00	e0.00	e0.00	293	215	159	28
23	e22	e3.5	e0.4	e0.00	e0.00	e0.00	e0.00	e0.00	291	202	e150	26
24	e20	e3.3	e0.3	e0.00	e0.00	e0.00	e0.00	e0.00	292	210	e140	e24
25	e18	e3.2	e0.2	e0.00	e0.00	e0.00	e0.00	e0.00	272	282	e130	e23
26	e17	e3.1	e0.2	e0.00	e0.00	e0.00	e0.00	e0.1	264	283	e130	e22
27	e16	e3.0	e0.1	e0.00	e0.00	e0.00	e0.00	e0.6	265	248	e120	e21
28	e15	e2.8	e0.1	e0.00	e0.00	e0.00	e0.00	e1.5	261	214	120	e21
29	e14	e2.7	e0.00	e0.00	---	e0.00	e0.00	e4.0	267	200	124	22
30	e13	e2.6	e0.00	e0.00	---	e0.00	e0.00	e10	301	190	120	24
31	e12	---	e0.00	e0.00	---	e0.00	---	e30	---	184	118	---
TOTAL	1046	167.5	33.20	0.00	0.00	0.00	0.00	46.20	8804	6875	5344	1568
MEAN	33.7	5.58	1.07	0.00	0.00	0.00	0.00	1.49	293	222	172	52.3
MAX	55	11	2.5	0.00	0.00	0.00	0.00	30	468	340	267	127
MIN	12	2.6	0.00	0.00	0.00	0.00	0.00	0.00	70	184	118	21
AC-FT	2070	332	66	0.00	0.00	0.00	0.00	92	17460	13640	10600	3110
CFSM	0.69	0.11	0.02	0.00	0.00	0.00	0.00	0.03	6.03	4.55	3.54	1.07
IN.	0.80	0.13	0.03	0.00	0.00	0.00	0.00	0.04	6.73	5.25	4.08	1.20

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2003, BY WATER YEAR (WY)#

MEAN	14.2	3.38	0.43	0.00	0.00	0.00	0.00	13.4	235	185	150	59.9
MAX	33.7	5.58	1.07	0.00	0.00	0.00	0.00	26.3	293	339	204	96.0
(WY)	2003	2003	2003	1992	1992	1992	1992	1993	2003	1994	1994	1993
MIN	6.42	1.52	0.06	0.00	0.00	0.00	0.00	0.35	123	116	77.4	27.3
(WY)	1993	2001	1995	1992	1992	1992	1992	2001	2002	2001	2001	2001

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1992 - 2003#	
ANNUAL TOTAL	14648.20		23883.90			
ANNUAL MEAN	40.1		65.4		55.4	
HIGHEST ANNUAL MEAN					76.4	1994
LOWEST ANNUAL MEAN					35.1	2001
HIGHEST DAILY MEAN	195	Sep 6	468	Jun 10	1100	Aug 27 1994
LOWEST DAILY MEAN	a0.00	Jan 1	b0.00	Dec 29	c0.00	Dec 6 1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Dec 29	0.00	Dec 6 1991
MAXIMUM PEAK FLOW			493	Jun 10	1500	Aug 27 1994
MAXIMUM PEAK STAGE			24.95	Jun 10	d17.80	Aug 27 1994
MAXIMUM PEAK STAGE			f27.27	May 29		
ANNUAL RUNOFF (AC-FT)	29050		47370		40100	
ANNUAL RUNOFF (CFSM)	0.824		1.34		1.14	
ANNUAL RUNOFF (INCHES)	11.19		18.24		15.44	
10 PERCENT EXCEEDS	128		227		188	
50 PERCENT EXCEEDS	4.4		3.0		3.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

\# See Period of Record; break in record
a From Jan. 1 to May 15 and Dec. 29 to 31
b From Dec. 29 to May 25
c No flow during winter months
d At datum then in use
e Estimated
f Backwater from snow and ice

15904800 ATIGUN RIVER NEAR PUMP STATION 4—Continued

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

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	30	e7.2	e0.90	e0.00	e0.00	e0.00	e0.00	e0.00	299	120	177	40
2	90	e7.0	e0.90	e0.00	e0.00	e0.00	e0.00	e0.00	259	120	144	39
3	128	e6.8	e0.80	e0.00	e0.00	e0.00	e0.00	e0.00	241	120	118	36
4	100	e6.4	e0.80	e0.00	e0.00	e0.00	e0.00	e0.00	230	119	99	34
5	78	e6.2	e0.80	e0.00	e0.00	e0.00	e0.00	e0.00	246	118	84	31
6	69	e5.8	e0.70	e0.00	e0.00	e0.00	e0.00	e0.00	216	129	73	29
7	65	e5.4	e0.70	e0.00	e0.00	e0.00	e0.00	e0.00	194	132	66	27
8	56	e5.0	e0.60	e0.00	e0.00	e0.00	e0.00	e0.00	181	141	61	25
9	46	e4.6	e0.60	e0.00	e0.00	e0.00	e0.00	e0.00	169	142	57	24
10	42	e4.4	e0.60	e0.00	e0.00	e0.00	e0.00	e0.00	162	157	55	23
11	40	e4.0	e0.50	e0.00	e0.00	e0.00	e0.00	e0.20	170	164	53	22
12	36	e3.8	e0.50	e0.00	e0.00	e0.00	e0.00	e0.40	157	156	52	20
13	31	e3.4	e0.50	e0.00	e0.00	e0.00	e0.00	e0.8	152	145	90	19
14	e26	e3.0	e0.40	e0.00	e0.00	e0.00	e0.00	e2.0	155	132	183	18
15	e24	e2.8	e0.40	e0.00	e0.00	e0.00	e0.00	e5.0	159	124	154	17
16	e22	e2.6	e0.40	e0.00	e0.00	e0.00	e0.00	e9.0	157	118	127	16
17	e20	e2.4	e0.30	e0.00	e0.00	e0.00	e0.00	e12	160	117	108	15
18	e18	e2.2	e0.30	e0.00	e0.00	e0.00	e0.00	e14	148	148	94	14
19	e17	e2.0	e0.30	e0.00	e0.00	e0.00	e0.00	e16	139	144	83	14
20	e15	e2.0	e0.20	e0.00	e0.00	e0.00	e0.00	e18	140	144	75	13
21	e14	e1.8	e0.20	e0.00	e0.00	e0.00	e0.00	e20	143	155	70	14
22	e13	e1.8	e0.20	e0.00	e0.00	e0.00	e0.00	e30	139	163	67	14
23	e12	e1.6	e0.20	e0.00	e0.00	e0.00	e0.00	e40	134	159	65	13
24	e11	e1.6	e0.10	e0.00	e0.00	e0.00	e0.00	e50	130	150	61	11
25	e10	e1.4	e0.10	e0.00	e0.00	e0.00	e0.00	e55	128	142	60	11
26	e9.4	e1.4	e0.10	e0.00	e0.00	e0.00	e0.00	e60	123	132	56	10
27	e9.0	e1.2	e0.00	e0.00	e0.00	e0.00	e0.00	e65	116	126	53	9.0
28	e8.6	e1.2	e0.00	e0.00	e0.00	e0.00	e0.00	e70	112	122	50	e9.0
29	e8.2	e1.0	e0.00	e0.00	e0.00	e0.00	e0.00	e80	114	117	48	e8.0
30	e7.8	e1.0	e0.00	e0.00	---	e0.00	e0.00	e120	117	115	45	e8.0
31	e7.6	---	e0.00	e0.00	---	e0.00	---	210	---	143	42	---
TOTAL	1063.6	101.0	12.10	0.00	0.00	0.00	0.00	877.40	4990	4214	2570	583.0
MEAN	34.3	3.37	0.39	0.00	0.00	0.00	0.00	28.3	166	136	82.9	19.4
MAX	128	7.2	0.9	0.00	0.00	0.00	0.00	210	299	164	183	40
MIN	7.6	1.0	0.00	0.00	0.00	0.00	0.00	0.00	112	115	42	8.0
AC-FT	2110	200	24	0.00	0.00	0.00	0.00	1740	9900	8360	5100	1160
CFSM	0.70	0.07	0.01	0.00	0.00	0.00	0.00	0.58	3.42	2.79	1.70	0.40
IN.	0.81	0.08	0.01	0.00	0.00	0.00	0.00	0.67	3.81	3.22	1.96	0.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2004, BY WATER YEAR (WY)#

MEAN	16.7	3.38	0.43	0.00	0.00	0.00	0.00	15.5	225	178	140	54.1
MAX	34.3	5.58	1.07	0.00	0.00	0.00	0.00	28.3	293	339	204	96.0
(WY)	2004	2003	2003	1992	1992	1992	1992	2004	2003	1994	1994	1993
MIN	6.42	1.52	0.06	0.00	0.00	0.00	0.00	0.35	123	116	77.4	19.4
(WY)	1993	2001	1995	1992	1992	1992	1992	2001	2002	2001	2001	2004

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1992 - 2004#	
ANNUAL TOTAL	23813.90		14411.10			
ANNUAL MEAN	65.2		39.4		53.1	
HIGHEST ANNUAL MEAN					76.4	1994
LOWEST ANNUAL MEAN					35.1	2001
HIGHEST DAILY MEAN	468	Jun 10	299	Jun 1	1100	Aug 27 1994
LOWEST DAILY MEAN	a0.00	Jan 1	b0.00	Dec 27	c0.00	Dec 6 1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Dec 27	0.00	Dec 6 1991
MAXIMUM PEAK FLOW			382	Jun 4	1500	Aug 27 1994
MAXIMUM PEAK STAGE			24.32	Jun 4	d17.80	Aug 27 1994
ANNUAL RUNOFF (AC-FT)	47230		28580		38440	
ANNUAL RUNOFF (CFSM)	1.34		0.809		1.09	
ANNUAL RUNOFF (INCHES)	18.19		11.01		14.81	
10 PERCENT EXCEEDS	227		142		171	
50 PERCENT EXCEEDS	1.4		3.2		3.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

\# See Period of Record; break in record
a From Jan. 1 to May 25 and Dec. 27 to 31
b From Dec. 27 to May 10
c No flow during winter months
d At datum then in use
e Estimated

15904800 ATIGUN RIVER NEAR PUMP STATION 4—Continued

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e8.6	e4.1	e1.5	e0.1	e0.0	e0.0	e0.0	e0.0	177	169	61	39
2	e9.0	e3.8	e1.4	e0.0	e0.0	e0.0	e0.0	e0.0	135	154	59	36
3	e9.6	e3.6	e1.4	e0.0	e0.0	e0.0	e0.0	e0.0	108	144	58	34
4	e10	e3.4	e1.3	e0.0	e0.0	e0.0	e0.0	e0.0	109	133	57	34
5	e9.8	e3.2	e1.3	e0.0	e0.0	e0.0	e0.0	e0.0	116	129	59	31
6	e9.6	e3.1	e1.2	e0.0	e0.0	e0.0	e0.0	e0.2	128	129	56	28
7	e9.2	e3.0	e1.1	e0.0	e0.0	e0.0	e0.0	e0.3	141	124	55	25
8	e9.0	e2.9	e1.1	e0.0	e0.0	e0.0	e0.0	e0.5	155	121	54	24
9	e8.8	e2.8	e1.0	e0.0	e0.0	e0.0	e0.0	e1.0	176	121	53	23
10	e8.6	e2.7	e0.9	e0.0	e0.0	e0.0	e0.0	e2.0	188	144	52	22
11	e8.4	e2.7	e0.9	e0.0	e0.0	e0.0	e0.0	e4.0	177	206	53	21
12	e8.2	e2.6	e0.8	e0.0	e0.0	e0.0	e0.0	e7.0	179	207	52	21
13	e8.0	e2.5	e0.8	e0.0	e0.0	e0.0	e0.0	e10	199	203	50	20
14	e7.8	e2.5	e0.7	e0.0	e0.0	e0.0	e0.0	e15	219	190	50	19
15	e7.6	e2.4	e0.7	e0.0	e0.0	e0.0	e0.0	e25	214	164	51	20
16	e7.4	e2.4	e0.6	e0.0	e0.0	e0.0	e0.0	e35	205	157	51	21
17	e7.2	e2.3	e0.6	e0.0	e0.0	e0.0	e0.0	e45	193	137	e49	21
18	e7.0	e2.2	e0.6	e0.0	e0.0	e0.0	e0.0	e65	172	144	e48	19
19	e6.9	e2.2	e0.5	e0.0	e0.0	e0.0	e0.0	e85	157	161	47	19
20	e6.7	e2.1	e0.5	e0.0	e0.0	e0.0	e0.0	e95	148	144	47	19
21	e6.6	e2.1	e0.4	e0.0	e0.0	e0.0	e0.0	115	143	126	47	19
22	e6.5	e2.0	e0.4	e0.0	e0.0	e0.0	e0.0	124	138	103	46	18
23	e6.4	e1.9	e0.4	e0.0	e0.0	e0.0	e0.0	115	133	94	46	18
24	e6.2	e1.9	e0.3	e0.0	e0.0	e0.0	e0.0	117	128	86	46	17
25	e6.0	e1.8	e0.3	e0.0	e0.0	e0.0	e0.0	121	126	81	48	17
26	e5.7	e1.8	e0.3	e0.0	e0.0	e0.0	e0.0	137	130	77	e47	16
27	e5.5	e1.7	e0.2	e0.0	e0.0	e0.0	e0.0	154	131	74	47	16
28	e5.2	e1.6	e0.2	e0.0	e0.0	e0.0	e0.0	183	135	69	46	15
29	e4.9	e1.6	e0.2	e0.0	---	e0.0	e0.0	226	140	67	46	14
30	e4.6	e1.5	e0.1	e0.0	---	e0.0	e0.0	247	147	65	46	14
31	e4.3	---	e0.1	e0.0	---	e0.0	---	217	---	63	45	---
TOTAL	229.3	74.4	21.8	0.1	0.0	0.0	0.0	2146.0	4647	3986	1572	660
MEAN	7.40	2.48	0.70	0.00	0.00	0.00	0.00	69.2	155	129	50.7	22.0
MAX	10	4.1	1.5	0.1	0.00	0.00	0.00	247	219	207	61	39
MIN	4.3	1.5	0.1	0.00	0.00	0.00	0.00	0.00	108	63	45	14
AC-FT	455	148	43	0.2	0.00	0.00	0.00	4260	9220	7910	3120	1310
CFSM	0.15	0.05	0.01	0.00	0.00	0.00	0.00	1.42	3.18	2.64	1.04	0.45
IN.	0.18	0.06	0.02	0.00	0.00	0.00	0.00	1.64	3.55	3.04	1.20	0.50

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1992 - 2005, BY WATER YEAR (WY)#

MEAN	15.7	3.28	0.46	0.00	0.00	0.00	0.00	22.2	216	172	129	50.1
MAX	34.3	5.58	1.07	0.00	0.00	0.00	0.00	69.2	293	339	204	96.0
(WY)	2004	2003	2003	2005	1992	1992	1992	2005	2003	1994	1994	1993
MIN	6.42	1.52	0.06	0.00	0.00	0.00	0.00	0.35	123	116	50.7	19.4
(WY)	1993	2001	1995	1992	1992	1992	1992	2001	2002	2001	2005	2004

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1992 - 2005#	
ANNUAL TOTAL	13559.90		13336.6			
ANNUAL MEAN	37.0		36.5		51.0	
HIGHEST ANNUAL MEAN					76.4	1994
LOWEST ANNUAL MEAN					35.1	2001
HIGHEST DAILY MEAN	299	Jun 1	247	May 30	1100	Aug 27 1994
LOWEST DAILY MEAN	a0.00	Jan 1	b0.00	Jan 2	c0.00	Dec 6 1991
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Jan 2	0.00	Dec 6 1991
MAXIMUM PEAK FLOW			289	May 29	1500	Aug 27 1994
MAXIMUM PEAK STAGE			23.74	May 29	d17.80	Aug 27 1994
ANNUAL RUNOFF (AC-FT)	26900		26450		36950	
ANNUAL RUNOFF (CFSM)	0.761		0.750		1.05	
ANNUAL RUNOFF (INCHES)	10.36		10.19		14.23	
10 PERCENT EXCEEDS	142		139		164	
50 PERCENT EXCEEDS	2.5		2.8		3.0	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

\# See Period of Record; break in record
a From Jan. 1 to May 10
b From Dec. 2 to May 5
c No flow during winter months
d At datum then in use
e Estimated

15906000 SAGAVANIRKTOK RIVER TRIBUTARY NEAR PUMP STATION 3

LOCATION.--Lat 68°41'13", long 149°05'42", in SW$^1/_4$ 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 good except for estimated daily discharges, which are poor.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e0.8	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	27	4.2	5.7	2.1
2	e0.8	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	23	4.3	5.3	2.2
3	e0.7	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	21	4.2	5.1	2.3
4	e0.7	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	19	4.3	4.8	2.4
5	e0.7	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	18	4.1	4.7	2.5
6	e0.7	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	17	5.8	4.6	2.3
7	e0.6	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	16	8.0	4.5	2.3
8	e0.6	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.5	15	6.7	4.5	2.2
9	e0.6	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e1.0	13	13	4.3	2.1
10	e0.6	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e1.0	13	16	4.1	2.1
11	e0.5	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e1.0	12	25	3.9	2.1
12	e0.5	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e5.0	12	96	3.7	1.9
13	e0.5	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e10	11	173	3.6	1.9
14	e0.5	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e10	10	104	3.4	1.8
15	e0.4	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e5.0	9.3	61	3.2	1.7
16	e0.4	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e5.0	8.5	40	3.1	1.7
17	e0.4	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e5.0	7.9	30	2.8	1.6
18	e0.4	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e30	6.9	25	2.7	1.6
19	e0.3	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e140	6.0	21	2.6	1.6
20	e0.3	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e123	5.6	16	2.4	2.0
21	e0.3	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	117	5.4	13	2.3	3.1
22	e0.3	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	133	5.1	12	2.2	3.1
23	e0.2	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	103	4.9	10	2.1	2.7
24	e0.2	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	83	4.6	9.1	2.1	2.5
25	e0.2	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	75	4.3	8.2	2.1	2.3
26	e0.2	e0.0	e0.0	e0.0	e0.0	e0.0	e0.1	67	4.2	7.4	2.2	e2.0
27	e0.1	e0.0	e0.0	e0.0	e0.0	e0.0	e0.1	62	4.0	7.0	2.4	e1.9
28	e0.1	e0.0	e0.0	e0.0	e0.0	e0.0	e0.1	55	3.8	7.1	2.3	e1.8
29	e0.1	e0.0	e0.0	e0.0	---	e0.0	e0.2	46	3.6	6.5	2.1	e1.7
30	e0.1	e0.0	e0.0	e0.0	---	e0.0	e0.1	39	3.8	6.2	2.0	e1.6
31	e0.1	---	e0.0	e0.0	---	e0.0	---	32	---	5.9	2.2	---
TOTAL	12.9	0.0	0.0	0.0	0.0	0.0	0.6	1148.5	314.9	754.0	103.0	63.1
MEAN	0.42	0.00	0.00	0.00	0.00	0.00	0.02	37.0	10.5	24.3	3.32	2.10
MAX	0.80	0.00	0.00	0.00	0.00	0.00	0.20	140	27	173	5.7	3.1
MIN	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	3.6	4.1	2.0	1.6
AC-FT	26	0.00	0.00	0.00	0.00	0.00	1.2	2280	625	1500	204	125
CFSM	0.01	0.00	0.00	0.00	0.00	0.00	0.00	1.30	0.37	0.86	0.12	0.07
IN.	0.02	0.00	0.00	0.00	0.00	0.00	0.00	1.50	0.41	0.99	0.13	0.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)#

MEAN	3.32	0.02	0.00	0.00	0.00	0.00	0.00	33.6	53.1	37.9	50.9	25.5
MAX	15.4	0.40	0.00	0.00	0.00	0.00	0.02	95.6	150	84.3	111	77.4
(WY)	2004	2004	1988	1988	1988	1988	2005	1995	1992	2003	2002	1997
MIN	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	10.4	8.19	3.17	2.10
(WY)	1988	1988	1988	1988	1988	1988	1988	2001	1988	1990	1990	2005

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1988 - 2005#	
ANNUAL TOTAL	5029.40		2397.0			
ANNUAL MEAN	13.7		6.57		17.3	
HIGHEST ANNUAL MEAN					29.4	2003
LOWEST ANNUAL MEAN					6.57	2005
HIGHEST DAILY MEAN	306	Jul 11	173	Jul 13	871	Aug 16 2002
LOWEST DAILY MEAN	a0.00	Jan 1	b0.00	Nov 1	c0.00	Oct 1 1987
ANNUAL SEVEN-DAY MINIMUM	0.00	Jan 1	0.00	Nov 1	0.00	Oct 1 1987
MAXIMUM PEAK FLOW			190	Jul 13	d1810	Aug 15 2002
MAXIMUM PEAK STAGE			19.26	Jul 13	21.90	Aug 15 2002
ANNUAL RUNOFF (AC-FT)	9980		4750		12540	
ANNUAL RUNOFF (CFSM)	0.484		0.231		0.610	
ANNUAL RUNOFF (INCHES)	6.59		3.14		8.28	
10 PERCENT EXCEEDS	38		13		49	
50 PERCENT EXCEEDS	0.00		0.00		0.00	
90 PERCENT EXCEEDS	0.00		0.00		0.00	

\# See Period of Record; partial years were used in monthly statistics.
a From Jan. 1 to May 11
b From Nov. 1 to Apr. 25 and May 1 to 7
c No flow during winter months
d Estimated, from rating extended above 450 ft^3/s on basis of slope-area measurement of peak discharge.
e Estimated

15908000 SAGAVANIRKTOK RIVER NEAR PUMP STATION 3

LOCATION.--Lat 69°00'54", long 148°49'02", in NW$^1/_4$ 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.

REVISED RECORDS-- WDR AK-03-1:1991(M), 1992(M), 1999(M).

REMARKS.--Records good 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 Science Center, Water Resources Office. GOES satellite telemetry at station.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e820	e470	e270	e220	e190	e180	e160	e180	6180	4020	1590	1200
2	e810	e450	e270	e220	e190	e180	e160	e170	4250	4430	1540	1170
3	e800	e430	e270	e220	e190	e180	e160	e160	3160	3340	1490	1140
4	e790	e420	e260	e210	e190	e180	e160	e160	2990	2560	1430	1130
5	e780	e410	e260	e210	e190	e170	e160	e160	3450	2180	1470	1110
6	e760	e400	e260	e210	e190	e170	e160	e160	4280	2220	1490	1080
7	e740	e390	e260	e210	e190	e170	e160	e160	4560	2400	1470	1050
8	e720	e380	e250	e210	e190	e170	e160	e170	4500	2160	1540	1020
9	e700	e380	e250	e210	e190	e170	e160	e200	4780	2200	1570	994
10	e660	e370	e250	e210	e190	e170	e160	e240	5400	2260	1720	975
11	e640	e360	e250	e210	e190	e170	e160	e350	5480	2690	1680	963
12	e660	e360	e250	e210	e190	e170	e160	e440	5480	3950	1640	937
13	e680	e350	e250	e210	e190	e170	e150	e420	5360	5790	1620	912
14	e700	e350	e240	e210	e190	e170	e150	e400	5840	5860	1600	897
15	e710	e340	e240	e200	e180	e170	e150	e330	5620	4830	1600	890
16	e720	e340	e240	e200	e180	e170	e150	e300	5190	4060	1610	884
17	e720	e340	e240	e200	e180	e170	e150	e280	4980	3620	1560	871
18	e710	e330	e240	e200	e180	e170	e150	e360	4270	4800	1510	865
19	e700	e330	e240	e200	e180	e170	e150	e440	3310	4640	1450	871
20	e690	e320	e230	e200	e180	e170	e150	e480	2690	3830	1400	921
21	e680	e320	e230	e200	e180	e170	e150	e550	2350	3100	1340	1050
22	e660	e320	e230	e200	e180	e170	e150	e700	2170	2620	1350	994
23	e640	e310	e230	e200	e180	e170	e150	e900	1960	2330	1300	937
24	e620	e310	e230	e200	e180	e160	e150	e1500	1860	2140	1280	916
25	e600	e300	e230	e200	e180	e160	e150	e3000	1760	2010	1320	929
26	e580	e300	e230	e200	e180	e160	e160	e5000	1770	1950	1360	927
27	e560	e290	e220	e200	e180	e160	e170	e6000	1820	1910	1390	895
28	e540	e290	e220	e200	e180	e160	e180	e7000	1880	1890	1310	e850
29	e520	e280	e220	e200	---	e160	e190	7210	2080	1810	1260	e810
30	e510	e280	e220	e190	---	e160	e200	7540	2630	1730	1250	e790
31	e490	---	e220	e190	---	e160	---	8070	---	1650	1250	---
TOTAL	20910	10520	7500	6350	5180	5230	4770	53030	112050	94980	45390	28978
MEAN	675	351	242	205	185	169	159	1711	3735	3064	1464	966
MAX	820	470	270	220	190	180	200	8070	6180	5860	1720	1200
MIN	490	280	220	190	180	160	150	160	1760	1650	1250	790
AC-FT	41470	20870	14880	12600	10270	10370	9460	105200	222300	188400	90030	57480
CFSM	0.36	0.19	0.13	0.11	0.10	0.09	0.09	0.92	2.01	1.65	0.79	0.52
IN.	0.42	0.21	0.15	0.13	0.10	0.10	0.10	1.06	2.24	1.90	0.91	0.58

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2005, BY WATER YEAR (WY)#

MEAN	625	232	97.4	54.7	38.2	32.3	32.0	1283	5790	4851	3989	1866
MAX	1372	402	242	205	185	169	159	3588	9737	7370	6355	3984
(WY)	2004	2003	2005	2005	2005	2005	2005	1993	1992	1995	2003	1997
MIN	279	76.0	4.03	0.00	0.00	0.00	0.00	4.77	3304	2839	1464	883
(WY)	1983	1984	1991	1983	1983	1983	1984	1986	2002	1991	2005	1983

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

15908000 SAGAVANIRKTOK RIVER NEAR PUMP STATION 3—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1982 - 2005#	
ANNUAL TOTAL	682583.0		394888			
ANNUAL MEAN	1865		1082		1583	
HIGHEST ANNUAL MEAN					2148	2003
LOWEST ANNUAL MEAN					993	1983
HIGHEST DAILY MEAN	21100	Jul 11	8070	May 31	33000	Aug 16 2002
LOWEST DAILY MEAN	a1.0	Feb 27	b150	Apr 13	c0.00	Dec 25 1982
ANNUAL SEVEN-DAY MINIMUM	1.0	Feb 27	150	Apr 13	0.00	Dec 25 1982
MAXIMUM PEAK FLOW			8880	May 31	d48300	Aug 16 2002
MAXIMUM PEAK STAGE			17.26	May 31	21.94	Aug 16 2002
MAXIMUM PEAK STAGE					f25.68	Jun 8 2000
ANNUAL RUNOFF (AC-FT)	1354000		783300		1147000	
ANNUAL RUNOFF (CFSM)	1.00		0.582		0.851	
ANNUAL RUNOFF (INCHES)	13.65		7.90		11.57	
10 PERCENT EXCEEDS	5670		3120		5000	
50 PERCENT EXCEEDS	340		350		210	
90 PERCENT EXCEEDS	1.0		160		0.00	

\# See Period of Record; partial year was used in monthly statistics
a From Feb. 27 to May 8
b From Apr. 13 to Apr. 25
c No flow during winter months water years 1983 to 1995
d From rating curve extended above 10,000 ft^3/s on basis of slope-area measurement of peak flow at 21.94 ft.
f From floodmarks, backwater from ice and snow

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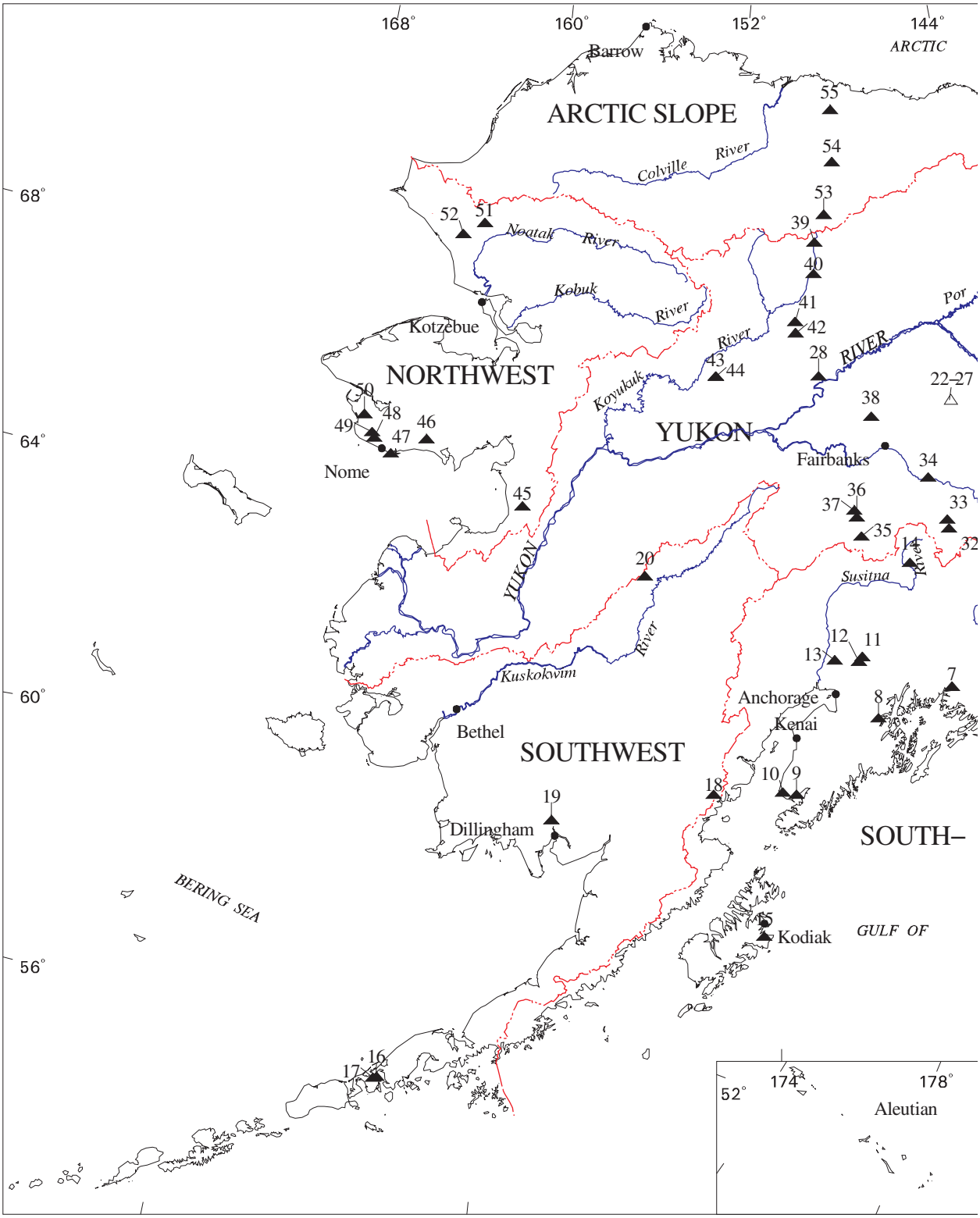
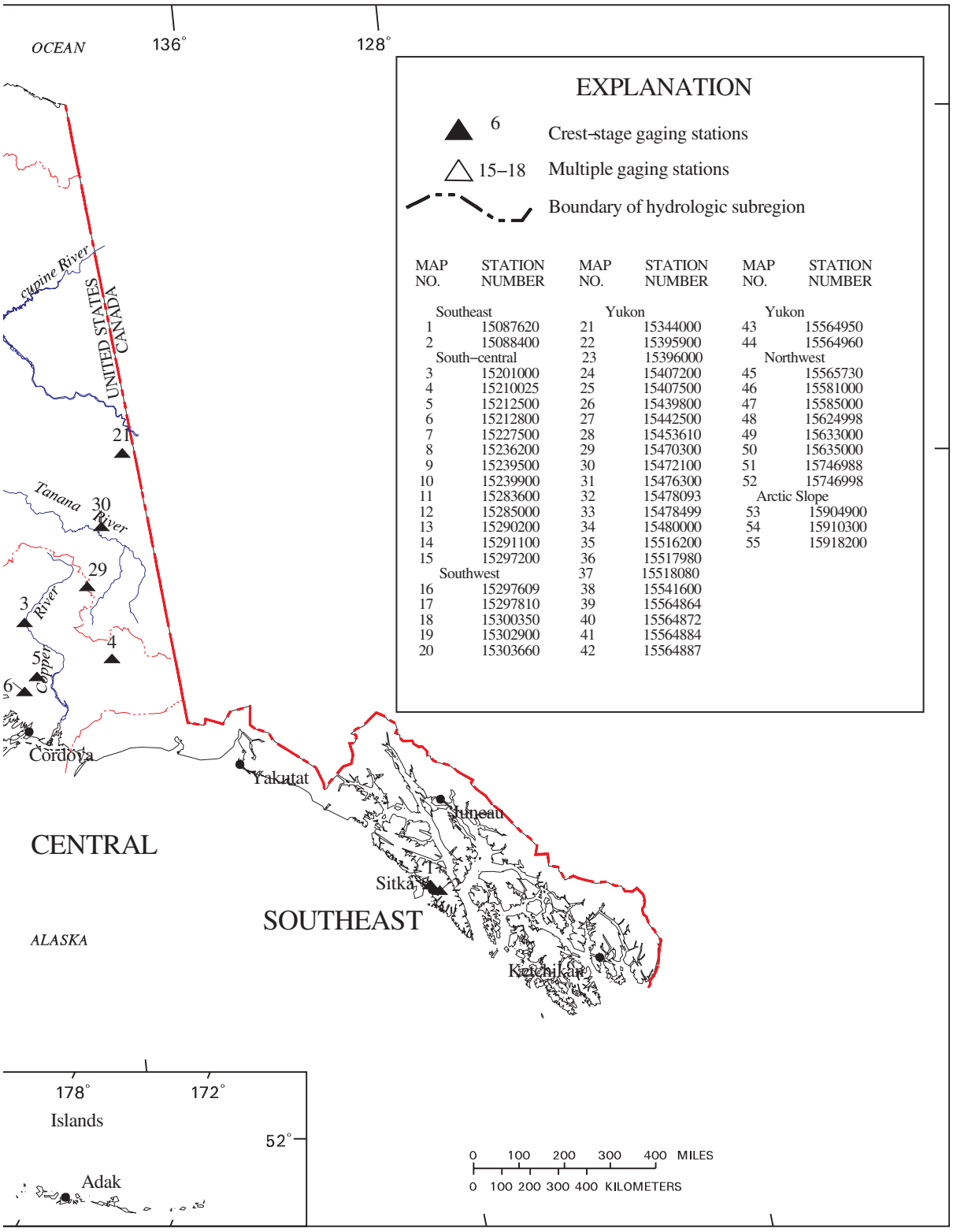


Map 2. Locations of crest-stage partial-record stations


OCEAN
136°
128°
EXPLANATION
6
Crest-stage gaging stations
15–18
Multiple gaging stations
Boundary of hydrologic subregion
MAP NO. STATION NUMBER
Southeast
1 15087620
2 15088400
South–central
3 15201000
4 15210025
5 15212500
6 15212800
7 15227500
8 15236200
9 15239500
10 15239900
11 15283600
12 15285000
13 15290200
14 15291100
15 15297200
Southwest
16 15297609
17 15297810
18 15300350
19 15302900
20 15303660
MAP NO. STATION NUMBER
Yukon
21 15344000
22 15395900
23 15396000
24 15407200
25 15407500
26 15439800
27 15442500
28 15453610
29 15470300
30 15472100
31 15476300
32 15478093
33 15478499
34 15480000
35 15516200
36 15517980
37 15518080
38 15541600
39 15564864
40 15564872
41 15564884
42 15564887
MAP NO. STATION NUMBER
Yukon
43 15564950
44 15564960
Northwest
45 15565730
46 15581000
47 15585000
48 15624998
49 15633000
50 15635000
51 15746988
52 15746998
Arctic Slope
53 15904900
54 15910300
55 15918200
Porcupine River
UNITED STATES
CANADA
Tanana River
Upper Copper River
Cordova
Yakutat
Juneau
Sitka
Ketchikan
CENTRAL
SOUTHEAST
ALASKA
178°
172°
Islands
52°
Adak
0 100 200 300 400 MILES
0 100 200 300 400 KILOMETERS

15087620 STARRIGAVIN CREEK TRIBUTARY AT STARRIGAVIN CREEK CAMPGROUND NEAR SITKA

LOCATION.--Lat 57°07'04", long 135°21'29", in SE$^1/_4$ SW$^1/_4$ NW$^1/_4$ sec. 02, T. 55 S, R. 63 E. (Sitka A-5 quad), Baranof Island, 0.2 mi upstream from confluence of Starrigavin Creek and 0.4 mi upstream from bay, and 12 miles north of Sitka.

DRAINAGE AREA.--n

TRIBUTARY TO.--Starrigavin Creek

PERIOD OF RECORD.--2004 to current year.

DISCHARGED MEASURED PREVIOUSLY (WATER YEARS).--2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge
03-02-05	1.97	1.04
05-19-05	1.90	0.41
07-19-05	2.09	1.56
09-10-05	2.04	1.09

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
12-02-04	3.03	n	12-02-04	3.03	n

n To be determined

15088400 CUPOLA PEAK CREEK AT BEAR COVE NEAR SITKA

LOCATION.-- Lat 57°00'39", long 135°09'11", in NE$^1/_4$ SE$^1/_4$ SE$^1/_4$, 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.

DRAINAGE AREA.--0.43 mi^2.

TRIBUTARY TO.--Bear Cove

PERIOD OF RECORD.--2000 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--2000-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
11-17-04		c no flow
1-12-05		c no flow
3-03-05		c no flow
5-19-05		c no flow
7-20-05		c no flow
9-09-05		c no flow

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
12-02-04	18.36	e294	12-02-04	18.36	e294

c Channel Dry
e Estimated

15201000 DRY CREEK NEAR GLENNALLEN

LOCATION.--Lat 62°08'49", Long 145°28'31", in NE$^1/_4$ 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.--11.4 mi^2.

TRIBUTARY TO.--Copper River

PERIOD OF RECORD.--1963 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1963-1968, 1971-2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
5-09-05	14.70	29
5-18-05	14.22	13
7-18-05	14.20	13
8-25-05	13.94	5.8

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
4-27-05	15.75	S/146	5- -72	d25.88	546
6-21-05	15.08	R/55			

d At different site or datum
R/ Rainfall
S/ Spring runoff

15210025 MCCARTHY CREEK AT MCCARTHY

LOCATION.--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 left bank 1100 ft upstream from large boulder near footbridge at trail crossing at McCarthy, 0.8 mi upstream from mouth.

DRAINAGE AREA.--79.0 mi^2.

TRIBUTARY TO.--Kennicott River.

PERIOD OF RECORD.--1994 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1993-2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
7-14-05	69.71	335

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
4- -05	70.97	u	9-27-00	dj80.27	e4000
6-04-05	70.22	S/776			
8-24-05	70.63	R/1250			

d At different site or datum
e Estimated
j From floodmarks
R/ Rainfall
S/ Spring runoff
u Unknown

15212500 BOULDER CREEK NEAR TIEKEL

LOCATION.--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, 0.7 mi north of Tiekel.

DRAINAGE AREA.--9.80 mi^2.

TRIBUTARY TO.--Tiekel River

PERIOD OF RECORD.--1964 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1964-67, 1970-96, 1998-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
06-07-05	10.35	119

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
1-04-05	f10.98	u	8-07-81	11.72	1,330
6-15-05	10.56	S/346			
7-03-05	10.46	R/238			

f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15212800 PTARMIGAN CREEK TRIBUTARY NEAR VALDEZ

LOCATION.--Lat 61°08'12", Long 145°44'32", in NW$^1/_4$ NE$^1/_4$ 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.--0.72 mi^2.

TRIBUTARY TO.--Ptarmigan Creek

PERIOD OF RECORD.--1965-70, 1996 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1965-70, 1995-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
10-08-04	76.97	5.5
06-07-05	77.22	13
06-16-05	77.26	18

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05- -05	f78.13	u	9- -65	d10.82	85
06-15-05	77.42	S/25			
07-31-05	77.20	R/16			

d From site and datum then in use
f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15227500 MINERAL CREEK NEAR VALDEZ

LOCATION.--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.--44.0 mi^2.

TRIBUTARY TO.--Port Valdez

PERIOD OF RECORD.--i1976-81, 1990 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1913, 1948-50, 1972-73, 1990-2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
08-17-05	9.37	773

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
06-17-05	10.17	S/1160	6- -76	di90.81	5,570
08-23-05	12.86	R/2780			

i Data collected by Dept. of Transportation and Public Facilities
d At different site or datum
R/ Rainfall
S/ Spring runoff

15236200 SHAKESPEARE CREEK AT WHITTIER

LOCATION.--Lat 60°46'35", Long 148°43'35", in NE$^1/_4$ 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.

DRAINAGE AREA.--1.61 mi^2.

TRIBUTARY TO.--Passage Channel

PERIOD OF RECORD.--1970-80, 1984 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).-- †1969, 1970-80, 1985-2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
4-25-05	9.25	19
6-14-05	9.33	51

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
5-14-05	10.23	S/247	9-20-95	14.90	690
7-26-05	12.49	R/538			

† Miscellaneous measurement
R/ Rainfall
S/ Spring runoff

15239500 FRITZ CREEK NEAR HOMER

LOCATION.--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 15 ft upstream from culvert under East End Road, 8 mi northeast of Homer.

DRAINAGE AREA.--10.4 mi^2.

TRIBUTARY TO.--Kachemak Bay

PERIOD OF RECORD.--1963-85, ‡1986-92, 1993 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1963-66, *f*1967-70, 1971-77, *f*1978-80, +1981-85, ‡1986-92, 1993-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
10-05-04	12.30	18
4-25-05	12.63	62

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
3-09-05	f14.13	u	10-22-80	dj18.53	852
4-25-05	12.91	S/138			
9-24-05	13.50	R/260			

‡ Operated as a continuous-record station
\+ See analysis of samples collected at miscellaneous water-quality sites
d At different site or datum
f Ice affected
f Low-flow partial-record station
j From floodmarks
R/ Rainfall
S/ Spring runoff
u Unknown

15239900 ANCHOR RIVER NEAR ANCHOR POINT

LOCATION.--Lat 59°44'50", Long 151°45'11", in NE$^1/_4$ sec. 13, T. 5 S., R. 15 W. (Seldovia C-5 quad), Kenai Peninsula Borough, on right bank underneath bridge on Sterling Highway, 4.3 mi southeast of Anchor Point. Mile Post 161.

DRAINAGE AREA.--137 mi^2.

TRIBUTARY TO.--Cook Inlet

PERIOD OF RECORD.--‡1965-73, 1974, ‡1978-86, 1987, ‡1991-92, 2000 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--‡1965-73, 1974, ‡1978-86, 1987, †1988 ‡1991-92, †1993, †1995, †1996, †1999, 2000-04.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
10-05-04	1.77	295
6-06-05	1.39	121
8-03-05	1.43	139
9-22-05	1.53	184

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
1-04-05	f6.68	u	11-23-02	j9.10	9,000
4-23-05	3.72	S/1,810			
9-10-05	3.67	R/1,760			

‡ Operated as a continuous-record station
† Miscellaneous measurement
f Ice affected
j From floodmarks
R/ Rainfall
S/ Spring runoff
u Unknown

15283600 PREMIER CREEK NEAR SUTTON

LOCATION.--Lat 61°42'40", Long 149°05'12", in SE¼ NE¼ sec. 28, T. 19 N., R. 2 E. (Anchorade C-6 quad), Matanuska-Susitna Borough, on left bank 10 ft downstream from culvert on Buffalo Mine Road (called Moose Creek Road on Anchorage C-6 quad), 4 mi north from the Glenn Highway, 6 mi west of Sutton, and 7 mi northeast of Palmer.

DRAINAGE AREA.--3.38 mi^2.

TRIBUTARY TO.--Moose Creek.

PERIOD OF RECORD.--1997 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1996-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
10-01-04	6.88	17
04-29-05	7.29	42
05-09-05	6.58	10
07-08-05	6.47	6.4

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
10-01-04	7.65	R/157	10-01-04	7.65	157
04-28-05	7.64	S/154			

R/ Rainfall
S/ Spring runoff

15285000 WASILLA CREEK NEAR PALMER

LOCATION.--Lat 61°38'37", Long 149°11'46", 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 Palmer-Fishhook Road, and 4.1 mi northeast of Palmer.

DRAINAGE AREA.--16.8 mi^2.

TRIBUTARY TO.--Knik Arm

PERIOD OF RECORD.--1971, 1976 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).-- 1971, *f*1976-83, 1984-2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
10-01-04	7.63	137
10-06-04	6.94	30
04-29-05	8.00	169
05-09-05	7.27	58
07-08-05	7.08	36
09-13-05	7.54	101

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-08-05	8.16	S/202	8-10-71	d17.74	700
09-10-05	8.07	R/187			

d At different site or datum
f Low-flow partial-record station
R/ Rainfall
S/ Spring runoff

15290200 NANCY LAKE TRIBUTARY NEAR WILLOW

LOCATION.--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 150 ft upstream from culverts on Parks Highway, 0.3 mi upstream from mouth and 4.5 mi southeast of Willow.

DRAINAGE AREA.--8.00 mi^2.

TRIBUTARY TO.--Nancy Lake

PERIOD OF RECORD.--1980, 1983-87, 1989 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--*f*1978-79, 1980, *f*1981, 1983-86, 1990-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
10-01-04	10.29	117
04-29-05	9.92	67
05-19-05	9.00	5.6

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
04-26-05	10.47	S/179	10-11-86	13.21	465
09-07-05	9.64	R/41			

f Low-flow partial-record station
R/ Rainfall
S/ Spring runoff

15291100 RAFT CREEK NEAR DENALI

LOCATION.--Lat 63°03'04", Long 147°16'22", in SE$^1/_4$ sec. 36, T. 21 S., R. 2 E. (Healy A-1 quad), Matanuska-Susitna Borough, on right bank 35 ft upstream from culvert at mi 68.9 on the Denali Highway, and 10.7 mi southeast of Denali.

DRAINAGE AREA.--4.33 mi^2.

TRIBUTARY TO.--Susitna River

PERIOD OF RECORD.--1963 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1963-67, 1970-75, 1977-82, 1984-94, 1997-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-20-05	10.32	20
07-20-05	10.11	11
08-24-05	10.31	24

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-01-05	f11.83	u	6- -64	11.72	133
05-11-05	11.68	S/132			
07-30-05	10.59	R/55			

f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15297200 MYRTLE CREEK NEAR KODIAK

LOCATION.--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.--4.74 mi^2.

TRIBUTARY TO.--Kalsin Bay

PERIOD OF RECORD.--1968, 1975 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--‡1963-86, 1987-89, 1991-2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
4-14-05	2.95	26
6-08-05	3.17	61

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
2-03-05	f6.06	u	1-03-77	6.93	1,350
5-06-05	5.57	S/764			
8-03-05	4.96	R/542			

‡ Operated as a continuous-record station
f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15297609 STAPP CREEK NEAR COLD BAY

LOCATION.--Lat 55°11'17", Long 162°42'47", in $SE^1/_4$ $SE^1/_4$ $NW^1/_4$ sec. 1, T. 58 S., R. 89 W. (Cold Bay A-3 quad), Aleutians East Borough, on left bank, 0.9 mi upstream from mouth, and 1.0 mi south of Cold Bay.

DRAINAGE AREA.--1.68 mi^2.

TRIBUTARY TO.--Cold Bay

PERIOD OF RECORD.--2001 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--2001-04.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
11-08-04	14.71	1.2
02-07-05	14.88	2.4
04-11-05	14.74	2.0
06-09-05	14.65	1.4

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
01-14-05	15.65	S/24	5-24-02	15.85	34
03-30-05	f15.99	u			
06-17-05	<14.96	R/<4.4			

< Less than
f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15297810 FROSTY CREEK NEAR COLD BAY

LOCATION.--Lat 55°09'59", Long 162°48'22", in SE$^1/_4$ SW$^1/_4$ SE$^1/_4$ sec. 8, T. 58 S., R. 89 W. (Cold Bay A-3 quad), Aleutians East Borough, on left bank, 2.8 mi. upstream from mouth, and 4.5 mi southwest of Cold Bay.

DRAINAGE AREA.--5.92 mi^2.

TRIBUTARY TO.--Izembek Lagoon

PERIOD OF RECORD.--2001 to current year.

DISCHARGED MEASURED PREVIOUSLY (WATER YEARS).--2001-04.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
11-08-04	9.82	30
02-07-05	9.88	37
04-11-05	9.71	21
06-09-05	10.12	73
08-02-05	9.96	53

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
01-13-05	10.84	S/187	10-24-00	11.92	497
06-17-05	10.61	R/141			

R/ Rainfall
S/ Spring runoff

15300350 CHINKELYES CREEK TRIBUTARY NEAR PEDRO BAY

LOCATION.--Lat 59°44'02", Long 153°48'40", in $SE^1/_4$ $NE^1/_4$ $NE^1/_4$ sec. 23, T. 5 S., R. 27 W. (Iliamna C-3 quad), Lake and Peninsula Borough, on left bank 60 ft upstream from culvert, 8 mi east of Pile Bay, and 11 mi east of Pedro Bay.

DRAINAGE AREA.--0.40 mi^2.

TRIBUTARY TO.--Chinkelyes Creek

PERIOD OF RECORD.--1997 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1998-2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
10-08-04	10.03	1.3
04-26-05	10.27	3.5
06-16-05	10.14	1.3

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-28-05	11.18	S/32	10-01-04	14.18	e257
09-10-05	<10.99	R/<25			

< Less than
e Estimated
R/ Rainfall
S/ Spring runoff

15302900 MOODY CREEK AT ALEKNAGIK

LOCATION.--Lat 59°16'34", Long 158°35'42", in SE$^1/_4$ 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 the Aleknagik Mission.

DRAINAGE AREA.--1.28 mi^2.

TRIBUTARY TO.--Wood River.

PERIOD OF RECORD.--1969-73, 1975-85, 1988 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--†1968, 1969-72, 1975, 1977-81, 1983, 1988-90, 1993-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
10-07-04	17.15	1.4
05-05-05	18.08	20
09-04-05	17.17	1.0

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-11-05	18.40	S/27	6-07-71	19.60	55
08-22-05	18.18	R/22			

† Miscellaneous measurement
R/ Rainfall
S/ Spring runoff

15303660 GOLD CREEK AT TAKOTNA

LOCATION.--Lat 62°59'20", Long 156°04'08", in $SE^1/_4$ $SE^1/_4$ 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.--6.31 mi^2.

TRIBUTARY TO.--Takotna River.

PERIOD OF RECORD.--1987 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1987-2004

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
05-12-05	7.77	90
08-24-05	6.58	6.1

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-11-05	8.22	S/125	5-16-99	8.30	131
09-23-05	<6.92	R/<29			

< Less than
R/ Rainfall
S/ Spring runoff

15344000 KING CREEK NEAR DOME CREEK

LOCATION.--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.--5.87 mi^2.

TRIBUTARY TO.--O'Brien Creek.

PERIOD OF RECORD.--1975-82, ‡1983-90, 1991 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1975-77, 1979-80, 1982, ‡1983-1990,1991-2002, 2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-10-05	13.94	5.5
07-12-05	13.69	2.2
09-21-05	13.82	4.1

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-28-05	15.54	R/58	6-13-97	j17.65	n

‡ Operated as a continuous-record station
j From floodmarks
n To be determined
R/ Rainfall

15395900 UPPER FRYINGPAN CREEK NEAR CENTRAL

LOCATION.--Lat 65°19'37", Long 145°33'01", in SE$^1/_4$ sec. 19, T. 6 N., R. 10 E. (Circle B-4 quad), on right bank, 0.3 mi upstream of the confluence with Fryingpan Creek, 3.2 mi upstream from the mouth of Fryingpan Creek, 16.6 mi southwest of Miller House site and 27.3 mi southwest of Central.

DRAINAGE AREA.--8.11 mi^2.

TRIBUTARY TO.--Birch Creek.

WATER-MAXIMUM DISCHARGE RECORDS

PERIOD OF RECORD.--2002-05 (discontinued).

DISCHARGED MEASURED PREVIOUSLY (WATER YEARS).-- †2001, 2002, 2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
06-15-05	15.00	3.0
06-25-05	14.80	1.2
07-19-05	15.46	13
08-11-05	14.94	2.0
09-04-05	15.00	2.9
09-13-05	15.26	7.2

Water year 2002-2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
06-11-02	16.36	gR/83	07-27-03	17.75	g244
07-27-03	17.75	gR/244			
05-24-04	16.72	gR/90			
05-30-05	16.88	R/109			

† Miscellaneous measurement
g Not previously published
R/ Rainfall

15395900 UPPER FRYINGPAN CREEK NEAR CENTRAL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2002-05 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage heigt, feet (00065)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Sampler type code (84164)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	pH, water, unfl-trd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, waer, deg C (00010)	Dissolved oxygen, mg/L (00300)
JUN													
15...	1230	9	9	9.60	15.00	3.0	10	3044	156	7.2	23.3	9.9	9.5
25...	1420	9	9	9.70	14.80	1.2	10	3044	--	--	--	--	--
JUL													
19...	1630	9	9	11.4	15.46	13	10	3044	92	7.1	18.9	8.2	8.0
AUG													
11...	1740	9	9	10.4	14.94	2.0	10	3044	214	7.2	26.5	10.8	9.9
SEP													
04...	1330	9	9	--	--	--	--	--	--	--	--	--	--
04...	1544	9	9	--	--	2.9	--	--	194	7.4	--	5.0	10.8
13...	1700	9	9	12.3	15.26	7.2	10	3044	124	7.3	--	4.3	11.7

Date	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Flouride, water, fltrd, mg/L (00950)	Silica, water, lftrd, mg/L (00955)	Residue on evap. at 180 deg C wat flt mg/L (70300)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)
JUN													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
04...	75	17.9	7.36	1.01	.34	48.0	<.20	<.1	5.03	149	<.002	.104	e.006
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover-able, ug/L (71900)	Mercury water, fltrd, ug/L (71890)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)
JUN											
15...	--	--	--	--	--	--	--	--	--	1	.01
25...	--	--	--	--	--	--	--	--	--	1	.00
JUL											
19...	--	--	--	--	--	--	--	--	--	6	.22
AUG											
11...	--	--	--	--	--	--	--	--	--	1	.01
SEP											
04...	.27	.32	<.004	e.003	<.006	54	7.3	<.01	<.01	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	1	.02

e Estimated

15396000 FRYINGPAN CREEK NEAR MILLER HOUSE

LOCATION.--Lat 65°9'18", Long 145°33'02", in NE¼ sec. 30, T. 6 N., R. 10 E. (Circle B-4 quad), on left bank, 2.8 mi upstream of the confluence with Birch Creek, 16.9 mi southwest of Miller House site and 27.6 mi southwest of Central.

DRAINAGE AREA.--14.7 mi^2.

TRIBUTARY TO.--Birch Creek.

WATER-MAXIMUM DISCHARGE RECORDS

PERIOD OF RECORD.--2005 (discontinued).

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--†1910, †2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
06-15-05	45.48	4.6
06-25-05	45.29	1.9
07-19-05	46.02	28
08-11-05	45.52	3.4
09-13-05	45.76	13

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-30-05	47.76	171	05-30-05	47.76	171

† Miscellaneous measurement

15396000 FRYINGPAN CREEK NEAR MILLER HOUSE—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2004-05 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage heigt, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sam-pler type code (84164)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfl-trd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, waer, deg C (00010)	Dis-solved oxy-gen, mg/L (00300)
JUN													
15...	1130	9	9	14.2	45.48	4.6	10	3044	177	7.3	21.6	10.2	9.5
25...	1330	9	9	13.9	45.29	1.9	10	3044	--	--	--	--	--
JUL													
19...	1230	9	9	15.2	46.02	28	10	3044	97	7.1	20.5	7.5	8.2
AUG													
11...	1340	9	9	14.5	45.52	3.4	10	3044	228	7.3	25.6	12.0	10.3
SEP													
04...	1630	9	9	--	--	--	--	--	--	--	--	--	--
04...	1659	9	9	--	--	4.6	--	--	216	7.6	--	4.6	10.8
13...	1430	9	9	14.6	45.76	13	10	3044	142	7.3	--	4.6	11.9

Date	Hard-ness, water, mg/L as CaCO3 (00900)	Cal-cium water, fltrd, mg/L (00915)	Magne-sium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Sul-fate water, fltrd, mg/L (00945)	Chlo-ride, water, fltrd, mg/L (00940)	Flou-ride, water, fltrd, mg/L (00950)	Sil-ica, water, lftrd, mg/L (00955)	Resi-due on evap. at 180 deg C wat flt mg/L (70300)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammo-nia water, fltrd, mg/L as N (00608)
JUN													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
25...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
19...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
11...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
04...	110	25.1	11.4	1.16	.43	50.8	<.20	<.1	6.12	165	<.002	.113	e.009
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover-able, ug/L (71900)	Mercury water, fltrd, ug/L (71890)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)
JUN											
15...	--	--	--	--	--	--	--	--	--	1	.01
25...	--	--	--	--	--	--	--	--	--	<1	--
JUL											
19...	--	--	--	--	--	--	--	--	--	10	.75
AUG											
11...	--	--	--	--	--	--	--	--	--	2	.02
SEP											
04...	.25	.27	e.003	e.003	<.006	43	101	<.01	<.01	--	--
04...	--	--	--	--	--	--	--	--	--	--	--
13...	--	--	--	--	--	--	--	--	--	2	.07

e Estimated

15407200 SOUTH FORK HARRISON CREEK NEAR CENTRAL

LOCATION.--Lat 65°21'52", Long 145°15'25", in NW$^1/_4$ sec. 10, T. 6 N., R. 12 E. (Circle B-3 quad), on right bank 3.5 mi above confluence with North Fork Harrison Creek, 5.1 mi southeast of Mastodon Dome and 19.3 mi southwest of Central.

DRAINAGE AREA.--9.11 mi^2.

TRIBUTARY TO.--Birch Creek.

WATER-MAXIMUM DISCHARGE RECORDS

PERIOD OF RECORD.--2002-05 (discontinued).

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--†2001, 2002-04.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
06-15-05	46.29	6.0
06-27-05	46.22	4.6
07-20-05	46.40	12
08-14-05	46.21	5.0
08-18-05	46.21	5.0
09-27-05	46.57	24

Water years 2003 & 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
07-27-03	47.36	gR/184	05-30-05	47.42	g199
05-30-05	47.42	R/199			

† Miscellaneous measurement
g Not previously published
R/ Rainfall

15407200 SOUTH FORK HARRISON CREEK NEAR CENTRAL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2003-05 (discontinued).

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage heigt, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sam-pler type code (84164)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfl-trd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, waer, deg C (00010)	Dis-solved oxy-gen, mg/L (00300)
JUN													
15...	1800	9	9	12.5	46.29	6.0	10	3044	84	7.4	20.0	11.0	9.2
27...	1330	9	9	16.0	46.22	4.6	10	3044	98	7.4	19.0	9.5	10.6
JUL													
20...	1300	9	9	18.5	46.40	12	10	3044	76	7.4	9.6	8.6	10.1
AUG													
14...	1750	9	9	13.8	46.21	5.0	10	3044	96	7.3	--	11.6	10.7
18...	1620	9	9	--	--	--	--	--	--	--	--	--	--
18...	1630	9	9	16.0	46.21	5.0	10	3044	105	7.4	--	7.6	10.6
SEP													
27...	1430	9	9	21.5	46.57	24	10	3044	66	7.3	--	2.6	12.3

Date	Hard-ness, water, mg/L as CaCO3 (00900)	Cal-cium water, fltrd, mg/L (00915)	Magne-sium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Sul-fate water, fltrd, mg/L (00945)	Chlo-ride, water, fltrd, mg/L (00940)	Flou-ride, water, fltrd, mg/L (00950)	Sil-ica, water, lftrd, mg/L (00955)	Resi-due on evap. at 180 deg C wat flt mg/L (70300)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammo-nia water, fltrd, mg/L as N (00608)
JUN													
15...	--	--	--	--	--	--	--	--	--	--	--	--	--
27...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
14...	--	--	--	--	--	--	--	--	--	--	--	--	--
18...	43	14.8	1.35	.74	.48	11.0	<.20	e.1	4.64	66	.038	.133	<.010
18...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
27...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover-able, ug/L (71900)	Mercury water, fltrd, ug/L (71890)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)
JUN											
15...	--	--	--	--	--	--	--	--	--	5	.08
27...	--	--	--	--	--	--	--	--	--	1	.01
JUL											
20...	--	--	--	--	--	--	--	--	--	1	.03
AUG											
14...	--	--	--	--	--	--	--	--	--	1	.01
18...	e.06	<.10	<.004	<.004	<.006	<6	.8	<.01	<.01	--	--
18...	--	--	--	--	--	--	--	--	--	1	.01
SEP											
27...	--	--	--	--	--	--	--	--	--	<1	--

e Estimated

15407500 HARRISON CREEK NEAR CENTRAL

LOCATION.--Lat 65°22'45", Long 144°49'58", in NE$^1/_4$ sec. 3, T. 6 N., R. 14 E. (Circle B-2 quad), on left bank 0.3 mi upstream from Bottom Dollar Creek confluence, 14.9 mi southeast of Mastodon Dome, and 13.3 mi south of Central.

DRAINAGE AREA.--71.6 mi^2.

TRIBUTARY TO.--Birch Creek.

WATER-MAXIMUM DISCHARGE RECORDS

PERIOD OF RECORD.--2002-05 (discontinued).

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--†2001, 2002-04.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
06-13-05	44.73	46
06-28-05	44.43	21
08-12-05	44.70	36
08-17-05	44.64	35
09-12-05	44.84	53

Water year 2002-2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
06-11-02	47.01	gR/877	07-27-03	47.79	g1,320
07-27-03	47.79	gR/1,320			
05-24-04	46.34	gR/556			
05-30-05	46.19	gR/492			

† Miscellaneous measurement
g Not previously published
R/ Rainfall

15407500 HARRISON CREEK NEAR CENTRAL—Continued

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2003-05 (discontinued.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage heigt, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sam-pler type code (84164)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfl-trd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, waer, deg C (00010)	Dis-solved oxy-gen, mg/L (00300)
JUN													
13...	1745	9	9	32.8	44.73	46	10	3044	--	--	25.0	17.8	--
28...	1540	9	9	27.5	44.43	21	10	3044	186	7.8	24.3	15.8	9.5
JUL													
20...	1944	9	9	--	--	--	--	--	112	7.7	--	11.3	9.4
AUG													
12...	1410	9	9	39.2	44.70	36	10	3044	191	7.9	20.4	14.0	9.7
17...	1600	9	9	--	--	--	--	--	--	--	--	--	--
17...	1610	9	9	38.0	44.64	35	10	3044	179	7.8	--	11.3	10.5
SEP													
12...	1340	9	9	43.0	44.84	53	10	3044	176	7.7	--	7.4	11.5

Date	Hard-ness, water, mg/L as CaCO3 (00900)	Cal-cium water, fltrd, mg/L (00915)	Magne-sium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Sul-fate water, fltrd, mg/L (00945)	Chlo-ride, water, fltrd, mg/L (00940)	Flou-ride, water, fltrd, mg/L (00950)	Sil-ica, water, lftrd, mg/L (00955)	Resi-due on evap. at 180 deg C wat flt mg/L (70300)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammo-nia water, fltrd, mg/L as N (00608)
JUN													
13...	--	--	--	--	--	--	--	--	--	--	--	--	--
28...	--	--	--	--	--	--	--	--	--	--	--	--	--
JUL													
20...	--	--	--	--	--	--	--	--	--	--	--	--	--
AUG													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--
17...	96	30.4	4.95	1.10	.86	27.0	<.20	<.1	5.48	111	.002	.218	e.005
17...	--	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
12...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover-able, ug/L (71900)	Mercury water, fltrd, ug/L (71890)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)
JUN											
13...	--	--	--	--	--	--	--	--	--	2	.25
28...	--	--	--	--	--	--	--	--	--	1	.06
JUL											
20...	--	--	--	--	--	--	--	--	--	--	--
AUG											
12...	--	--	--	--	--	--	--	--	--	1	.10
17...	.13	.10	<.004	e.003	<.006	12	5.7	<.01	<.01	--	--
17...	--	--	--	--	--	--	--	--	--	1	.10
SEP											
12...	--	--	--	--	--	--	--	--	--	1	.14

e Estimated

15439800 BOULDER CREEK NEAR CENTRAL

LOCATION.--Lat 65°34'05", Long 144°53'13", in NW$^1/_4$ 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.--31.3 mi^2.

TRIBUTARY TO.--Crooked Creek.

PERIOD OF RECORD.--1964-65, ‡1966-82, 1983, ‡1984-86, 1987 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1964-65, ‡1966-82, 1983, ‡1984-86, 1988-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-09-05	5.05	105
06-03-05	4.75	73
08-10-05	3.85	7.6
09-21-05	4.09	18

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-01-05	f7.27	u	06-25-89	10.01	1,460
05-06-05	d38.55	S/227			
06-01-05	8.07	R/716			

‡ Operated as a continuous-record station
d At different site or datum
f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15442500 QUARTZ CREEK NEAR CENTRAL

LOCATION.--Lat 65°37'09", Long 144°28'55", in SW$^1/_4$ 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 miles southwest of Circle, and 10 mi east of Central.

DRAINAGE AREA.--17.2 mi^2.

TRIBUTARY TO.--Crooked Creek.

PERIOD OF RECORD.--1967, 1969-79, 1989 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1990, 1992-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-09-05	15.51	14
06-03-05	15.81	23
07-21-05	15.89	28
08-10-05	15.51	18
09-21-05	15.71	20

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-01-05	f19.49	u	07-15-95	dj23.08	700
05-06-05	17.91	S/285			
06-01-05	19.43	R/495			

d At different site or datum
f Ice affected
j From floodmarks
R/ Rainfall
S/ Spring runoff
u Unknown

15453610 RAY RIVER TRIBUTARY NEAR STEVENS VILLAGE

LOCATION.--Lat 65°56'57", Long 149°54'55", in SE$^1/_4$ 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.--8.00 mi^2.

TRIBUTARY TO.--Ray River.

PERIOD OF RECORD.--1977 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1977, 1979-80, 1982, 1987-88, 1990-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-04-05	f20.15	49
05-12-05	f17.89	64
05-25-05	16.40	14
07-18-05	15.59	1.9
09-16-05	15.78	4.5

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-01-05	f 22.10	u	5- - 79	d21.10	860
05-16-05	f 118.40	S/128			
06-01-05	17.17	R/48			

d At different site or datum
f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15470300 LITTLE JACK CREEK NEAR NABESNA

LOCATION.--Lat 62°32'39", Long 143°19'22", in SW¼ NW¼ SE¼ sec. 22, T. 9 N., R. 11 E. (Nabesna C-5 quad), on left bank 70 ft upstream from culvert at mi 25.8 Nabesna Road, and 15.6 mi northeast of Nabesna (previously 0.2 mi upstream on left bank).

DRAINAGE AREA.--6.73 mi^2.

TRIBUTARY TO.--Jack Lake

PERIOD OF RECORD.--1975 to current year.

CORRECTIONS.--Period of Record Maximum was incorrect in WRD-AK 1999, WRD-AK 2000, and WRD-AK 2001.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1975-77, 1980, 1982-83, 1985-87, 1989-95, 1997-2004.

Water Year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
10-04-04	16.12	2.9
05-10-05	d10.47	7.4
05-19-05	d10.73	5.4
07-18-05	15.95	46
08-25-05	15.12	7.3

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
04-29-05	d11.42	S/31	7-25-01	21.42	254
07-28-05	16.41	R/112			

d At different site or datum
R/ Rainfall
S/ Spring runoff

15472100 PORCUPINE CREEK NEAR TETLIN JUNCTION

LOCATION.--Lat 63°22'53", Long 142°32'31", in $SE^1/_4$ sec. 33, T. 19 N., R. 15 E. (Tanacross B-4 quad), on right bank at mi 6.1 of the Taylor Highway, 4.5 mi upstream from the confluence with the Tanana River, 6 mi north of Tetlin Junction, 14.3 mi northeast of Tok.

DRAINAGE AREA.--8.13 mi^2.

TRIBUTARY TO.--Tanana River.

PERIOD OF RECORD.--2004 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEAR).--2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
09-14-04	g16.08	g3.4
05-09-05	16.16	4.9
07-11-05	16.34	13
09-20-05	16.19	5.3

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
04-24-05	fj22.06	u	06-20-05	17.17	n
04-29-05	17.05	S/n			
06-20-05	17.17	R/n			

f Ice affected
g Not previously published
j From floodmarks
n To be determined
R/ Rainfall
S/ Spring runoff
u Unknown

15476300 BERRY CREEK NEAR DOT LAKE

LOCATION.--Lat 63°41'23", Long 144°21'47", in NW$^1/_4$ 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.--65.1 mi^2.

TRIBUTARY TO.--Tanana River.

PERIOD OF RECORD.--1964-71, ‡1972-81, 1982 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1963-71, ‡1972-81, 1982, 1984, 1988, 1990-94, 1997-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-09-05	d10.87	129
06-16-05	10.88	106
07-11-05	10.83	e110
09-20-05	10.64	73

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
04-28-05	dfj14.71	u	07-19-64	15.49	2,800
05-01-05	d12.33	S/633			
06-20-05	12.68	R/826			

‡ Operated as a continuous-record station
d At different site or datum
e Estimated
f Ice affected
j From floodmarks
R/ Rainfall
S/ Spring runoff
u Unknown

15478093 SUZY Q CREEK NEAR PUMP STATION 10

LOCATION.--Lat 63°29'43", Long 145°51'27", in SW$^1/_4$ 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.--1.29 mi^2.

TRIBUTARY TO.--Delta River.

PERIOD OF RECORD.--1987, 1989 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1987, 1991-94, 1997-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-18-05	29.52	4.0
06-16-05	29.83	12

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-10-05	fj30.80	u	07-14-87	33.83	1070
05-14-05	30.04	S/29			
06-01-05	30.06	R/30			

f Ice affected
j From floodmarks
R/ Rainfall
S/ Spring runoff
u Unknown

15478499 RUBY CREEK ABOVE RICHARDSON HIGHWAY NEAR DONNELLY

LOCATION.--Lat 63°37'54", Long 145°52'14", in NE$^1/_4$ sec. 7, T. 15 S., R. 10 E. (Mt. Hayes C-4 quad), on right 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.--4.89 mi^2.

TRIBUTARY TO.--Delta River.

PERIOD OF RECORD.--1987 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1987-88, 1991-97, 1999-2000, 2002-04.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-18-05	13.78	18
06-16-05	13.54	17

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-20-05	14.11	S/77	07-14-87	16.95	1660
06-20-05	14.49	R/146			

R/ Rainfall
S/ Spring runoff

15480000 BANNER CREEK AT RICHARDSON

LOCATION.--Lat 64°17'24", Long 146°20'56", in SW$^1/_4$ 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.--20.2 mi^2.

TRIBUTARY TO.--Tanana River.

PERIOD OF RECORD.--1964 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1964-67, 1969-70, 1972, 1974-75, 1977, 1982-84, 1989-93, 1995-96, 1998-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-03-05	f13.91	9.1
05-18-05	13.48	14
06-15-05	13.23	4.4
06-15-05	13.23	4.6
07-11-05	13.45	12

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
04-28-05	fj17.18	S/ u	06-26-89	16.38	950
06-19-05	14.00	R/75			

f Ice affected
j From floodmarks
R/ Rainfall
S/ Spring runoff

15516200 SLIME CREEK NEAR CANTWELL

LOCATION.--Lat 63°30'34", Long 148°48'39", in SE$^1/_4$ sec. 24, T. 16 S., R. 7 W. (Healy C-4 quad), on right bank 25 ft downstream from culverts at mi 219.9 on the George Parks Highway, and 9.1 mi northeast of Cantwell.

DRAINAGE AREA.--6.90 mi^2.

TRIBUTARY TO.--Nenana River

PERIOD OF RECORD.--1966 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1990-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
10-14-05	16.13	6.7
05-20-05	16.42	24
06-09-05	16.91	74
07-20-05	16.56	32

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
06-09-05	m16.91	S/74	7- -67	d14.52	685
07-08-05	17.16	R/102			

d At different site or datum
m Maximum observed
R/ Rainfall
S/ Spring runoff

15517980 DRAGONFLY CREEK NEAR HEALY

LOCATION.--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 on the George Parks Highway, and 6 mi southeast of Healy.

DRAINAGE AREA.--0.71 mi^2.

TRIBUTARY TO.--Nenana River

PERIOD OF RECORD.--1990 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1990-95, 1997-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-04-05	36.12	0.74
06-27-05	36.24	0.85

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
04-30-05	fj38.97	u	7-12-90	d7.59	535
06-04-05	36.51	S/17			
09-11-05	36.59	R/35			

d At different site or datum
f Ice affected
j From floodmarks
R/ Rainfall
S/ Spring runoff
u Unknown

15518080 LIGHNITE CREEK ABOVE MOUTH NEAR HEALY

LOCATION.--Lat 63°54'17", Long 148°59'01", in SE$^1/_4$, NE$^1/_4$ sec. 6, T. 11 S., R. 7 W. (Healy D-4 quad), on left bank, 300 ft downstream from culverts on access road to Usibelli Coal Mine office, 1,000 ft upstream from mouth, and 3.5 fi north of Healy.

DRAINAGE AREA.--48.1 mi^2.

TRIBUTARY TO.--Nenana River.

PERIOD OF RECORD.--‡1985-2004, current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--‡1985-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-19-05	2.38	62
05-24-05	2.42	64
06-22-05	2.41	67
06-22-05	2.40	64
06-27-05	u	54
08-04-05	2.38	37
08-04-05	2.39	36

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-10-05	j4.10	S/417	08-21-86	d11.05	t2400
06-05-05	4.13	R/426			

‡ Operated as a continuous-record station
d At different site or datum
j From floodmarks
R/ Rainfall
S/ Spring runoff
t Estimated discharge from rating curve extended above 280 ft^3/s based on surface-float mmt at gage.
u Unknown

15541600 GLOBE CREEK NEAR LIVENGOOD

LOCATION.--Lat 65°17'08", Long 148°07'56", in SE$^1/_4$ sec. 3, T. 5 N., R. 3 W. (Livengood B-3 quad), on right bank 0.2 mi upstream from culvert at mi 37.6 Elliot Highway, 9 mi upstream from mouth, and 19 mi southeast of Livengood.

DRAINAGE AREA.--23.0 mi^2.

TRIBUTARY TO.--Tatilina River.

PERIOD OF RECORD.--1964 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1964-70, 1972-74, 1976, 1982-83, 1985-86, 1989-91, 1993, 1995-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-04-05	13.24	86
07-18-05	11.72	4.9

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
04-29-05	14.73	S/285	7-27-03	17.75	1,850
06-01-05	15.66	R/486			

R/ Rainfall
S/ Spring runoff

15564864 DIETRICH RIVER TRIBUTARY NEAR WISEMAN

LOCATION.--Lat 67°57'48", Long 149°46'02", in NE$^1/_4$ sec. 10, T. 36 N., R. 10 W. (Chandalar D-6 quad), on left bank, 200 ft upstream from edge of ditch at mi 229.5 of Dalton Highway and 39 mi north of Wiseman.

DRAINAGE AREA.--0.88 mi^2.

TRIBUTARY TO.--Dietrich River.

PERIOD OF RECORD.--2004 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
05-12-05	95.47	10
05-26-05	95.19	1.2
07-19-05	95.24	1.9

Water year 2004 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-17-04	fgj96.14	u	08-13-04	g95.53	g14
08-13-04	g95.53	gR/14			

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-05-05	96.69	u	05-11-05	95.69	27
05-11-05	95.69	S/27			
05-16-05	95.61	R/20			

f Ice affected
g Not previously published
j From floodmarks
R/ Rainfall
S/ Spring runoff
u Unknown

15564872 NUGGET CREEK NEAR WISEMAN

LOCATION.--Lat 67°29'25", Long 149°52'20", in NW$^1/_4$ 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.--9.47 mi^2.

TRIBUTARY TO.--Middle Fork Koyukuk River.

PERIOD OF RECORD.--d1975-88, d1990-92, 1993 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1975-79, 1982, 1985, 1987, 1989-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-12-05	38.38	62.8
06-04-05	37.65	13.5
07-19-05	37.71	14.1

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-16-05	39.96	S/443	5-26-98	40.17	540
06-02-05	38.30	R/54			

d At different site or datum
R/ Rainfall
S/ Spring runoff

15564884 PROSPECT CREEK NEAR PROSPECT CAMP

LOCATION.--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 about 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.--110 mi^2.

TRIBUTARY TO.--Jim River.

PERIOD OF RECORD.--1968, 1975 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1975-78, 1980, 1982, 1989, 1992-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-13-05	7.64	1350
06-05-05	5.51	330
07-22-05	5.42	291

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
04-30-05	fj9.22	u	1968	d10.22	6800
05-16-05	7.75	S/1410			
07-12-05	7.24	R/1040			

d At different site or datum
f Ice affected
j From floodmarks
R/ Rainfall
S/ Spring runoff
u Unknown

15564887 BONANZA CREEK TRIBUTARY NEAR PROSPECT CAMP

LOCATION.--Lat 66°36'52", Long 150°41'24", in SE$^1/_4$ 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.--11.7 mi^2.

TRIBUTARY TO.--Bonanza Creek.

PERIOD OF RECORD.--1975 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1975-76, 1982, 1985-86, 1989-95, 1997-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-12-05	f18.62	108
05-25-05	16.48	25
07-18-05	16.32	16

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
04-30-05	f19.71	u	9-2-03	19.94	243
05-16-05	18.78	S/141			
07-12-05	18.86	R/146			

f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15564950 INDIAN RIVER AT UTOPIA

LOCATION.--Lat 65°59'49", Long 153°41'31", in NW$^1/_4$ 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, 0.3 mile south of Utopia, 5 miles south of Indian Mt, and 16 miles east-southeast of Hughes.

DRAINAGE AREA.--38.8 mi^2.

TRIBUTARY TO.--Koyukuk River.

PERIOD OF RECORD.--1998 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1998-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-27-05	16.88	254
07-12-05	16.97	286
09-29-05	16.18	95

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
04-29-05	f18.13	u	08-16-03	18.91	906
05-14-05	17.72	S/489			
09-23-05	18.06	R/603			

f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15564960 UTOPIA CREEK AT UTOPIA

LOCATION.--Lat 65°59'26", Long 153°41'44", in SW$^1/_4$ sec. 19, T. 7 N., R. 25 E. (Melozitna D-2 quad), on right bank, 460 ft downstream of 4 wheeler crossing west of airstrip, 0.5 mi above mouth, 0.3 mi south-southeast of Utopia, 5.4 mi south of Indian Mt, and 16 mi east-southeast of Hughes.

DRAINAGE AREA.--5.18 mi^2.

TRIBUTARY TO.--Indian River.

PERIOD OF RECORD.--1999 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1998-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-27-05	6.80	62
07-12-05	6.24	18
09-29-05	6.24	18

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-18-05	7.13	S/102	06-03-03	7.28	152
07-10-05	6.91	R/74			

R/ Rainfall
S/ Spring runoff

15565730 CHIROSKEY RIVER NEAR UNALAKLEET

LOCATION.--Lat 63°55'06", Long 160°18'58", in NW$^1/_4$ sec. 19, T. 18 S., R. 8 W. (Unalakleet D-3 quad), on left bank 1 mi upstream from mouth, and 14 mi northeast of Unalakleet.

DRAINAGE AREA.--296 mi^2.

TRIBUTARY TO.--Unalakleet River

PERIOD OF RECORD.--1998 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1998, 2001-2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
08-13-05	43.76	151

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-02-05	f48.38	u	5-14-05	48.38	1,860
05-14-05	48.02	S/1,860			
09-17-05	u	R/u			

f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15581000 HUGH ROWE CREEK NEAR COUNCIL

LOCATION.--Lat 64°44'35", Long 163°53'44", in NW¼ NW¼ sec. 4, T. 09 S., R. 26 W. (Solomon C-4 quad), on left bank 150 ft upstream from culvert on Nome-Council Road, 0.1 mi upstream from mouth, and 60 mi east of Nome.

DRAINAGE AREA.--2.34 mi^2.

TRIBUTARY TO.--Fox River

PERIOD OF RECORD.--2001 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--2002-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
10-04-04	71.19	2.3
6-14-05	71.42	7.8
8-25-05	71.26	3.8

Water year 2004 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
5-01-05	f73.87	u	5-26-02	73.07	72
5-26-05	72.33	S/42			
9-24-05	72.35	R/43			

f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15585000 GOLDENGATE CREEK NEAR NOME

LOCATION.--Lat 64°26'51", Long 165°03'14", in SW$^1/_4$ sec. 15, T. 12 S., R. 32 W. (Nome B-1 quad), on right bank 80 ft upstream from culvert on Nome-Council Road, and 11 mi southeast of Nome.

DRAINAGE AREA.--1.55 mi^2.

TRIBUTARY TO.--Norton Sound

PERIOD OF RECORD.--1965, 1977-84, 1986 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1965, †1966, 1978-80, 1982-83, †1985, 1986-87, 1989, 1991-2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
05-25-05	10.69	5.2

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-11-05	f13.77	u	7-11-05	12.30	91
05-26-05	11.52	S/35			
07-11-05	12.30	R/91			

† Miscellaneous measurement
f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15624998 ARCTIC CREEK ABOVE TRIBUTARY NEAR NOME

LOCATION.--Lat 64°38'16", Long 165°42'42", in NE$^1/_4$ sec. 8, T. 10 S., R. 35 W. (Nome C-2 quad), on right bank 300 ft upstream from culvert on the Nome-Teller Road, 2 mi upstream from mouth, and 13 mi northwest of Nome.

DRAINAGE AREA.--1.13 mi^2.

TRIBUTARY TO.--Cripple River

PERIOD OF RECORD.--1975, 1979 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1975, 1979-84, 1986-1991, 1993-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
10-05-04	17.60	1.9
06-13-05	f18.02	4.6
08-24-05	17.64	3.3

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-26-05	f20.05	u	8-20-98	19.06	182
06-17-05	18.17	S/41			
09-23-05	18.27	R/52			

f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15633000 WASHINGTON CREEK NEAR NOME

LOCATION.--Lat 64°42'52", Long 165°49'13", in NW$^1/_4$ 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.--6.34 mi^2.

TRIBUTARY TO.--Sinuk River

PERIOD OF RECORD.--1964 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1964-66, 1968-78, 1980-2004.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
6-13-05	18.82	0.24
8-24-05	18.74	0.13

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
5-01-05	f23.62	u	7-10-75	d19.35	620
6-07-05	19.86	S/30			
9-15-05	20.15	R/49			

d At different site or datum
f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15635000 ELDORADO CREEK NEAR TELLER

LOCATION.--Lat 64°57'38", Long 166°11'59", in NE$^1/_4$ NE$^1/_4$ sec. 20, T. 6 S., R. 37 W. (Nome D-3 quad), on right bank 30 ft downstream from bridge at mi 46.3 on Nome-Teller Road, 0.5 mi upstream from mouth, and 21 mi south of Teller.

DRAINAGE AREA.--5.83 mi^2.

TRIBUTARY TO.--Tisuk River

PERIOD OF RECORD.--1986-87, ‡1988-90, 1991, ‡1992-98, 1999 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1986-87, ‡1988-90, 1991, ‡1992-98, 1999-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
10-05-04	7.90	5.4
05-25-05	8.46	73
08-24-05	8.10	16

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
05-11-05	f9.66	u	9-04-86	9.42	600
05-26-05	9.04	S/314			
09-15-05	9.10	R/351			

‡ Operated as a continuous-record station
f Ice affected
R/ Rainfall
S/ Spring runoff
u Unknown

15746988 NORTH FORK RED DOG CREEK NEAR KIVALINA

LOCATION.--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. Teck Cominco Station 12.

DRAINAGE AREA.--15.9 mi^2.

TRIBUTARY TO.--Ikalukrok Creek.

PERIOD OF RECORD.--‡1991-94, 1995 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--‡1991-94, 1995-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-20-05	f4.32	45
05-23-05	4.49	120
07-07-05	3.56	10
07-10-05	3.56	11
09-11-05	3.77	21

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-26-05	5.49	S/514	08-17-94	6.03	900
08-08-05	5.20	R/362			

‡ Operated as a continuous-record station
f Ice affected
R/ Rainfall
S/ Spring runoff

15746998 TUTAK CREEK NEAR KIVALINA

LOCATION.--Lat 67°52'28", Long 163°40'14", in NW$^1/_4$, NE$^1/_4$ 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.--119 mi^2.

TRIBUTARY TO.--Wulik River.

PERIOD OF RECORD.--1992-2005.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--†1991, 1992-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-25-05	f12.05	574
07-06-05	9.03	23.6
09-11-05	9.85	123

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-10-05	f15.29	u	6-15-92	15.00	3,100
05-27-05	14.15	S/2230			
08-08-05	j14.72	R/2770			

† Miscellaneous measurement
f Ice affected
j From floodmarks
R/ Rainfall
S/ Spring runoff
u Unknown

15904900 ATIGUN RIVER TRIBUTARY NEAR PUMP STATION 4

LOCATION.--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.--32.6 mi^2.

TRIBUTARY TO.--Atigun River.

PERIOD OF RECORD.--1976, ‡1977-86, 1987 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--‡1977-86, 1987-91, 1994, 1996-99, 2001-04.

Water year 2005 Measurements		
Date	Gage Height (ft)	Discharge (ft^3/s)
06-04-05	10.96	46.2

Water year 2005 maximum			Period of record maximum		
Date	Gage height (ft)	Discharge (ft^3/s)	Date	Gage height (ft)	Discharge (ft^3/s)
06-14-05	12.28	S/212	7-17-99	15.51	1,650
07-17-05	13.30	R/509			

‡ Operated as a continuous-record station
R/ Rainfall
S/ Spring runoff

15910300 SAGAVANIRKTOK RIVER TRIBUTARY NEAR HAPPY VALLEY CAMP

LOCATION.--Lat 69°09'39", Long 148°49'40", in NE$^1/_4$ sec. 30, T. 3 S., R. 14 E. (Sagavanirktok A-4 quad), North Slope Borough, on right bank 500 ft upstream from culvert at mi 335.2 on the Dalton Highway, 0.8 mi north of Happy Valley Camp, and 16 mi south of Sagwon.

DRAINAGE AREA.--12.7 mi^2.

TRIBUTARY TO.--Sagavanirktok River.

PERIOD OF RECORD.--1997 to current year.

DISCHARGE MEASURED PREVIOUSLY (WATER YEARS).--1997-2004.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
06-04-05	21.07	115
07-20-05	18.99	4.1
09-14-05	18.44	0

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
06-02-05	f22.02	u	06-08-00	23.82	850
06-03-05	21.68	S/201			
07-13-05	21.53	R/176			

f Ice affected
R/ Rainfall
S/ Spring runoff

15918200 SAGAVANIRKTOK RIVER TRIBUTARY NEAR DEADHORSE

LOCATION.--Lat 69°57'14", Long 148°43'48", in $NW^1/_4$, $NE^1/_4$ 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.--12 mi^2 approximately.

TRIBUTARY TO.--Sagavanirktok River.

PERIOD OF RECORD.--1986, 1988 to current year.

DISCHARGED MEASURED PREVIOUSLY (WATER YEARS).--1988-91, 1995-97, 1999-2001, 2003-04.

Water year 2005 Measurements

Date	Gage Height (ft)	Discharge (ft^3/s)
05-29-05	6.74	8.6

Water year 2005 maximum			Period of record maximum		
Date	Gage Height (ft)	Discharge (ft^3/s)	Date	Gage Height (ft)	Discharge (ft^3/s)
05-26-05	7.35	S/19	05-24-96	j11.8	142
07-13-05	<6.73	R/<8.7			

< Less than
j From floodmarks
R/ Rainfall
S/ Spring runoff

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. Discharge measurements are made at sites not included in the continuous record or partial-record programs. 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.

Discharge measurements made at miscellaneous sites during water year 2005
[Footnotes at end of table on page 377]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTHEAST ALASKA				
15015598 Clear Creek at mouth near Wrangell	Lake Creek	Lat 56°07′33″, long 130°58′03″, in SE¼ SW¼ SW¼ sec. 24, T. 66 S., R. 93 E. (Bradfield Canal A-3 quad), in Misty Fiords National Monument, 0.5 mi upstream from confluence with Lake Creek, 0.3 mi upstream of confluence of Lake Creek and Unuk River, 5.5 mi upstream of Burroughs Bay, and 58 mi southeast of Wrangell.	14.6	†2004	04-16-05	52
+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 1998-2004	11-17-04 01-20-05 02-10-05 03-15-05 04-18-05 05-31-05 06-27-05 08-01-05 08-23-05 09-27-05	60.7 16.0 19.5 49.6 29.8 153 126 90 90.5 100
+15052900 Mendenhall River at Brotherhood Bridge near Auke Bay	Fritz Cove	Lat 58°22′15″, long 134°36′00″, in NW¼ SE¼, sec. 25, T. 40 S., R. 65 E. (Juneau B-2 SW quad), City and Borough of Juneau, at Egan Expressway bridge, 1.0 mi upstream from mouth, and 2.3 mi southeast of Auke Bay.	104	1950 1961-66 1968 1984 1989 1997 1999-2004	12-07-04 02-01-05 06-07-05 09-07-05	346 295 2,230 5,120
15056500 Chilkat River near Klukwan	Lynn Canal	Lat 59°24′55″, long 135°55′45″, in NE¼ NW¼ SW¼, sec. 29, T. 28 S., R. 56 E. (Skagway B-3 quad), at Haines Highway Bridge, 0.25 mi upstream from mouth of Klehine River, and 1.7 mi northwest of Klukwan.	a760	‡1959-61 2001-04	08-09-05	8,260
15087638 Granite Creek at Sitka	Western Channel	Lat 57°06′05″, long 135°23′52″, in SE¼ SW¼ NE¼, sec. 16, T. 55 S., R. 63 E. (Sitka A-5 quad), on Baranof Island, in the Tongass National Forest, 200 ft downstream from Granite Creek Road Bridge, 400 ft upstream from mouth, and about 3.9 mi northwest of Sitka.	2.42	†2002-04	06-14-05	6.3
15087810 Sawmill Creek below Upper Tailrace near Sitka	Silver Bay	Lat 57°03′40″, long 135°12′35″, in NE ¼ SE¼ NE¼, sec 34, T.55S., R. 64E. (Sitka a-4 quad), on Baranof Island, in Tongass National Forest, at footbridge crossing at campground, 240 ft downstream from upper powerplant tailrace, 0.35 mi upstream from dam at Blue Lake, 1.2 mi upstream from mouth, and 4.6 mi east of Sitka.	38.0	1994-95 1998-2004	07-20-05 09-09-05	540 793

Discharge measurements made at miscellaneous sites during water year 2005
[Footnotes at end of table on page 377]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTHEAST ALASKA—Continued				
15109045 North Fork Peterson Creek near Auke Bay	Peterson Creek	Lat 58°17′02″, long 134°39′49″, in SE¼ NW¼ 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.	1.59	†1997-2004	10-15-04	2.87
		SOUTH-CENTRAL ALASKA				
15198600 Slana River near Mentasta	Copper River	Lat 62°51′10″, long 143°41′30″, in NE¼, sec. 3, T. 12 N., R. 9 E. (Nabesna D-6 quad), at bridge, mi 75.2 Tok Cutoff, and 50 mi south of Tok.	327	2002-04	06-08-05	737
15200280 Gulkana River at Sourdough	Copper River	Lat 62°31′15″, long 145°31′51″, in SE¼ NE¼, sec. 35, T. 9 N., R. 2 W. (Gulkana C-4 quad), on downstream side of pier of Alyeska Pipeline Service Co. bridge, 0.3 mi downstream from Sourdough Creek, and 0.8 mi southwest of Sourdough.	1,770	‡1973-78 ‡1982 ‡1989-93 ‡1997-2004	10-05-04 01-05-05 02-24-05	1,150 360 265
15200400 Gulkana River at Gulkana	Copper River	Lat 62°16′13″, long 145°23′05″, in SE¼, sec. 27, T. 6 N., R. 1 W. (Gulkana B-3 quad), at bridge, and mi 126.9 Richardson Highway.	1,966	1948-50 1954 1957-60 1965-66 1970-71 1998 2001-03	08-09-05	1,880
15202000 Tazlina River near Glenallen	Copper River	Lat 62°03′20″, long 145°25′34″, in SW¼, sec. 9, T. 3 N., R. 1 W. (Gulkana A-3 quad), at Bridge, mi 115.3 Richardson Highway, and 5 mi southeast of Glenallen.	a2,670	‡1949-72 1997-99 2001 2003-04	08-02-05	16,600
15214000 Copper River at Million Dollar Bridge near Cordova	Gulf of Alaska	Lat 60°40′18″, long 144°44′41″, in SE¼ NE¼ SE¼, sec. 7, T. 14 S., R. 4 E. (Cordova C-2 quad), 200 ft downstream from bridge, mi 49 Copper River Highway.	a24,200	1907-13 ‡1988-95	07-27-05 09-15-05	210,000 128,000
15214120 Copper River distributary at Bridge 342 near Cordova	Gulf of Alaska	Lat 60°31′16″, long 144°50′13″, in NE¼ NW¼ NE¼, sec. 3, T. 16 S., R. 3 E. (Cordova C-3 quad), at bridge, mi 36.8 Copper River Highway, and 31 mi east of Cordova.	u	1991-92	07-27-05 09-07-05 09-16-05 09-28-05	112,000 101,000 84,300 74,300
15214130 Copper River distributary at Bridge 340 near Cordova	Gulf of Alaska	Lat 60°31′06″, long 144°51′06″, in SW¼ NE¼ NE¼, sec. 3, T. 16 S., R. 3 E. (Cordova C-3 quad), at bridge, mi 34.3 Copper River Highway, and 30 mi east of Cordova.	u	1991-92	09-28-04 06-28-05 07-27-05 09-06-05	1,410 6,840 7,390 3,660

Discharge measurements made at miscellaneous sites during water year 2005
[Footnotes at end of table on page 377]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTH-CENTRAL ALASKA—Continued				
15214140 Copper River distributary at Bridge 339 near Cordova	Gulf of Alaska	Lat 60°31′01″, long 144°51′06″, in NW¼ NE¼ NE¼, sec. 3, T. 16 S., R. 3 E. (Cordova C-3 quad), at bridge, mi 33.2 Copper River Highway, and 30 mi east of Cordova.	u	1991-92	09-28-04 07-26-05 09-07-05 09-16-05 09-28-05	12,500 24,800 25,300 15,000 15,900
602843145240800 Sheridan River near Cordova	Gulf of Alaska	Lat 60°28′43″, long 145°24′08″, in NE¼ SE¼ SE¼, sec. 16, T. 16 S., R. 1 W. (Cordova B-4 quad), at bridge, and mi 14.8 Copper River Highway.	u	--	09-28-04 05-25-05 07-28-05 08-24-05 09-07-05 09-28-05	g5,200 2,190 7,290 8,520 10,300 5,610
15242000 Kasilof River near Kasilof	Cook Inlet	Lat 60°19'05″, long 151°15'35″, in SW1/4, sec. 30, T. 3 N., R. 11 W. (Kenai B-4 quad) Kenai Peninsula Borough, at bridge, mile 67.1 Sterling Highway, and 0.5 mi south of Kasilof.	738	‡1949-70 2002-04	09-01-05	7,550
15280100 Eklutna River above Thunderbird Creek near Eklutna	Knik Arm	Lat 61°26′44″, long 149°21′16″, in NW¼ SW¼, sec. 30, T. 16 N., R. 1 E. (Anchorage B-7 quad), Municipality of Anchorage, 800 ft upstream from Thunder Bird Creek, 3.3 mi upstream from mouth, and 1.6 mi southeast of Eklutna.	u	1955-57 2002-04	10-01-04 11-15-04 12-16-04 01-26-05 03-18-05 04-26-05 06-10-05 07-19-05 08-31-05	14 5.8 6.5 5.3 4.5 9.4 8.2 6.9 6.7
15281500 Camp Creek near Sheep Mountain Lodge	Trail Creek	Lat 61°50′20″, long 147°24′31″, in SE¼ SE¼ NW¼, sec. 11, T. 20 N., R. 11 E. (Anchorage D-2 quad), 5 ft downstream from culvert on old alignment of Glenn Highway, and 3.5 mi northeast of Sheep Mountain Lodge.	1.09	†1966-68 †1971 †1989-90 †1992-95 ‡1996-2004	10-04-04 10-04-04 10-06-04	0.39 0.36 0.43
15292400 Chulitna River near Talkeetna	Susitna River	Lat 62°33′31", long 150°14′02″, in SE¼ , sec. 32, T. 29 S., R. 5 W. (Talkeetna C-1 quad) Matanuska-Susitna Borough, at Parks Highway bridge, 4.5 mi downstream from Troublesome Creek, 18 mi upstream from mouth, and 16 mi northwest of Talkeetna.	2,570	‡1958-86 2003-04	08-11-05	28,500
		SOUTHWEST ALASKA				
15300100 Bear Creek near Iliamna	Newhalen River	Lat 59°49′28″, long 154°52′56″, in SW¼ SW¼, sec. 13 T. 4 S., R. 33 W. (Iliamna D-6 quad), 50 ft upstream from the culvert on the Iliamna-Nondalton road, and 5.2 mi north of Iliamna Airport	2.59	†b1964-68	04-26-05 05-25-05 07-22-05 08-11-05	15 8.3 3.7 2.5
15302000 Nuyakuk River near Dillingham	Nushagak River	Lat 59°56′08″, long 158°11′16″, in NE¼ NE¼, sec. 10, T. 3 S., R. 52 W. (Dillingham D-6 quad), 350 ft downstream from outlet of Tikchik Lake, and 62 mi north of Dillingham.	a1,490	‡ 1953-96 ‡2002-04	09-10-04 09-02-05	g4,110 4,780

Discharge measurements made at miscellaneous sites during water year 2005
[Footnotes at end of table on page 377]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		SOUTHWEST ALASKA—Continued				
15304405 +Martervik Spring Creek near Newtok	Baird Inlet	Lat 60°49′33″, long 164°28′08″, in SW¼ NW¼ SW¼, sec. 36 T. 9 N., R. 86 W. (Baird Inlet D-7 quad), at the mouth, and 10 mi southeast of Newtok.	4.12	--	05-27-05 09-28-05	3.9 3.0
654307144025800 Yukon River 10.3 mi above Circle City	Norton Sound	Lat 65°43′07″, long 144°02′58″, in SE¼, sec. 5, T. 10 N., R. 18 E. (Circle C-1 quad), 7 mi south, and 10 mi upstream of Circle City.	u	--	08-24-05	129,000
		YUKON ALASKA				
+15389000 Porcupine River near Fort Yukon	Yukon River	Lat 66°59′26″,long 143°08′16″, in SW¼, sec. 16, T. 25N., R. 21E. (Black River D-5 quad), 1,000 ft upstream from John Herberts Village, and 65 mi northeast of Fort Yukon.	a29,500	‡1964-79 2001-03	06-02-04 06-07-04 06-11-04 07-29-04 08-09-04 04-06-05 05-25-05 06-07-05 07-14-05 08-08-05 08-26-05	g64,200 g53,700 g37,400 g7,000 g19,900 830 51,300 40,100 16,400 4,790 5,430
+652149145074900 North Fork Harrison Creek 0.1 mi above mouth near Central	Birch Creek	Lat 65°21′49″, long 145°07′49″, in NW¼, sec. 8, T. 6 N., R. 13 E. (Circle B-3 quad), 0.1 mi above Harrison Creek confluence, and 17.2 mi southwest of Central.	u	--	08-18-05	13
+652129145001700 Harrison Creek 0.4 mi above Ptarmigan Gulch near Central	Birch Creek	Lat 65°21′29″, long 145°00′17″, in SE¼, sec. 11, T. 6 N., R. 13 E. (Circle B-3 quad), 0.4 mi above Ptarmigan Gulch , 6.1 mi above Bottom Dollar Creek confluence, 16 mi southwest of Central.	u	--	08-31-05	32
+652209144573700 Harrison Creek 1.3 mi below Ptarmigan Gulch near Central	Birch Creek	Lat 65°22′09″, long 144°57′37″, in NE¼, sec. 12, T. 6 N., R. 13 E. (Circle B-2 quad), 1.3 mi below Ptarmigan Gulch, 4.6 mi above Bottom Dollar Creek confluence, and 14.7 mi southwest of Central.	u	--	08-31-05	31
+652231144541200 Harrison Creek 0.2 mi above Squaw Creek near Central	Birch Creek	Lat 65°22′31″, long 144°54′12″, in SE¼, sec. 5, T. 6 S., R. 14 E. (Circle B-2 quad), 0.2 mi above Squaw Creek , 4.4 mi above Bottom Dollar Creek confluence, and 13.9 mi southwest of Central.	u	--	08-17-05	30
15457800 Hess Creek near Livengood	Yukon River	Lat 65°39′55″ long 149°05′47″, in NW¼, sec. 30, T. 10 N., R. 7 W. (Livengood C-5 quad), at mi 22 of the Dalton Highway, 1.0 mi downstream from Mastodon Creek, 4.0 mi upstream from Richardson Creek, and 18.6 mi northwest of Livengood.	662	‡1970-78 ‡1982-86	05-17-05	2480

Discharge measurements made at miscellaneous sites during water year 2005
[Footnotes at end of table on page 377]

Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		YUKON ALASKA—Continued				
15472000 Tanana River near Tok Junction	Yukon River	Lat 63°19′00″, long 142°38′30″ in NW¼, sec. 25, T. 18 N., R. 14 E. (Tanacross B-4 quad) 1.4 mi west of junction of Alaska and Taylor Highways, at bridge crossing.	6,800	‡1950-53 2001-04	08-03-05	23,900
15473900 Tok River on Slana Tok Highway near Tok Junction	Tanana River	Lat 63°06′36", long 143°17′32″, in NW¼ NE¼, SE¼, sec. 3, T. 15 N., R. 11 E. (Tanacross A-5 quad), at bridge, mi 102.5 Tok Cutoff, and 20 mi south of Tok.	762	2002	06-09-05	2,350
15478000 Tanana River at Big Delta	Yukon River	Lat 64°09′20", long 145°51′00″, in SW¼, sec. 5, T. 9 S., R. 10 E. (Big Delta A-4 quad), near Rika's Roadhouse, 1,900 ft upstream from the bridge, mi 208.3 Alaska Highway, at Big Delta.	a13,500	2004	08-03-05	39,800
632225145434500 Miller Creek near Black Rapids	Delta River	Lat 63°22′25″, long 145°43′45″, in SW¼ NE¼ NE¼, sec. 12, T. 18 S., R.10 E. (Mount Hayes B-4 quad), at bridge, mi 215.1 Richardson Highway, and 12 mi south of Black Rapids.	u	--	08-10-05	1,570
632352145440000 Lower Miller Creek near Black Rapids	Delta River	Lat 63°23′52″, long 145°44′00″, in SW¼ NE¼ SE¼, sec. 36, T. 17 S., R.10 E. (Mount Hayes B-4 quad), at bridge, mi 216.7 Richardson Highway, and 10 mi south of Black Rapids.	u	--	08-10-05	672
632412145435500 Castner Creek near Black Rapids	Delta River	Lat 63°24′12″, long 145°43′55″, in SW¼ NE¼ NE¼, sec. 36, T. 17 S., R.10 E. (Mount Hayes B-4 quad), at bridge, mi 217.2 Richardson Highway, and 10 mi south of Black Rapids.	u	--	08-10-05	1,700
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, and 7 mi east of Two Rivers.	1344	1985 1987-89 1991-2004	06-24-05 08-25-05	1880 851
15493700 Chena River below Moose Creek Dam	Tanana River	Lat 64°48′03″, long 147°13′40″, in NW¼, sec. 30, T. 1 S., R. 3 E. (Fairbanks C-1 quad), 3.1 mi downstream from Moose Creek Dam, 1.4 mi upstream from Potlatch Creek, 5 mi northeast of North Pole, and 14.7 mi east of Fairbanks.	1,460	‡1979-96 1997-99 2001-04	06-20-05	1760
15512000 Chena Slough near Fairbanks	Chena River	Lat 64°49′15″, long 147°26′15″, in SW¼, sec. 4, T. 1 S., R. 2 E. (Fairbanks D-1 quad), on Peede Road off Badger Road in North Pole, 2 mi upstream from confluence with the Chena River .	20.0	2004	10-27-04	43
15515050 Marguerite Creek below trail crossing near Healy	California Creek	Lat 63°58′41″, long 148°45′35″, in NE¼, sec. 8, T.11 S., R. 6 W. (Healy D-4 quad), 3.5 mi upstream from mouth of Emma Creek, and 10.3 mi northeast of Healy.	11.4	2004	03-28-05	1.2

Discharge measurements made at miscellaneous sites during water year 2005
[Footnotes at end of table on page 377]

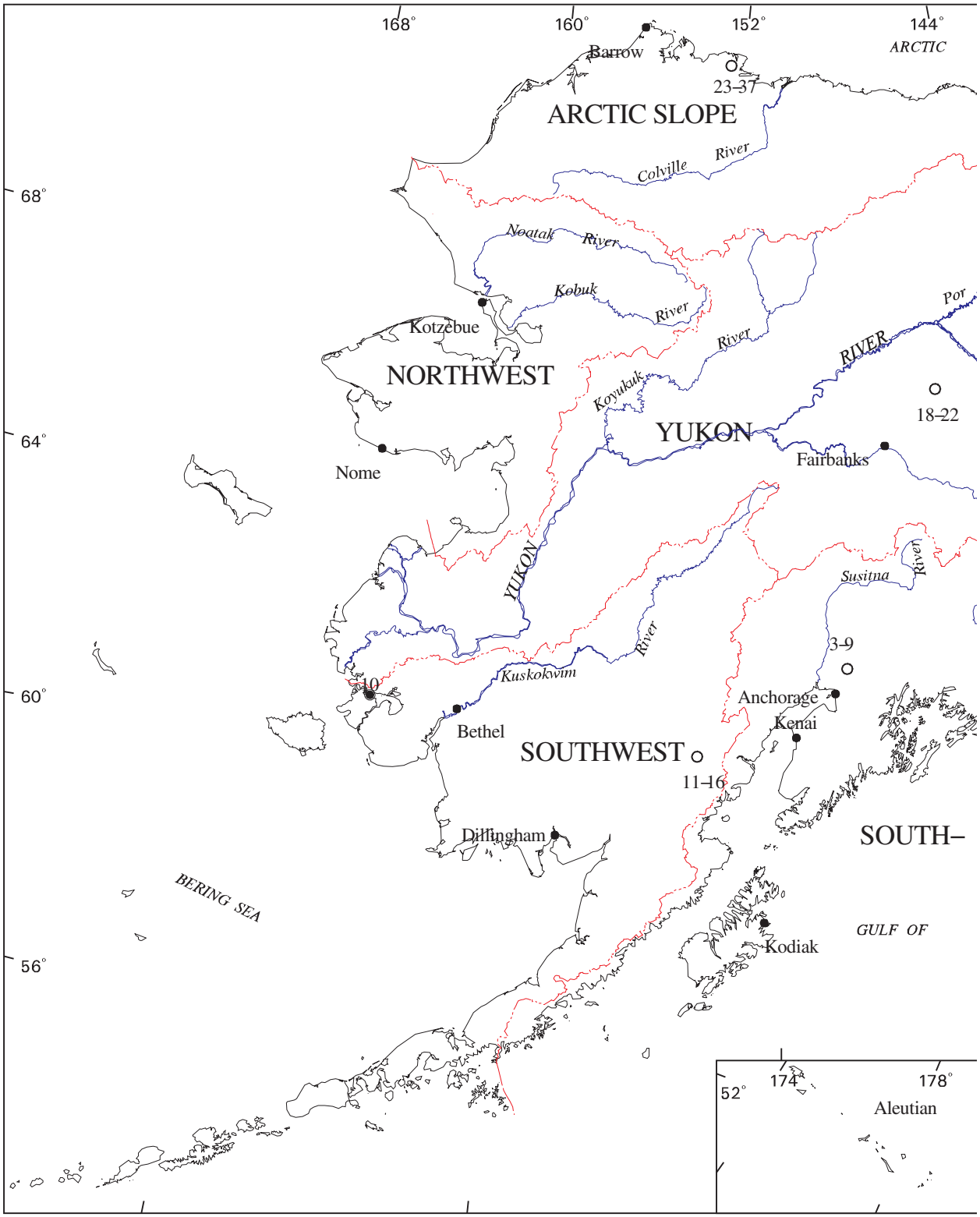
Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
		YUKON ALASKA—Continued				
15515055 Marguerite Creek 0.5 mi above Emma Creek near Healy	California Creek	Lat 64°00′17″, long 148°43′33″, in NE¼, sec. 33, T.10 S., R. 6 W.,(Fairbanks A-4 quad), 0.6 mi upstream of Emma Creek, 1.0 mi upstream of Bonanza Creek, and 12.4 mi northeast of Healy.	26.4	2004	03-28-05	4.0
15515120 Bonanza Creek above mouth near Healy	Marguerite Creek	Lat 64°00′57″, long 148°42′26″, in SW¼, sec. 27, T.10 S., R. 6 W. (Fairbanks A-4 quad), 500 ft above mouth, 0.7 mi below Emma Creek, and 13.4 mi northeast of Healy.	8.63	2004	11-24-04	2.1
15516000 Nenana River near Windy	Tanana River	Lat 63°27′28″, long 148°48′11″, in NE¼, sec. 12, T. 17 S., R. 7 W. (Healy B-4 quad), Matanuska-Susitna Borough, at bridge on Denali Highway, 0.8 mi upstream from Jack River, 1 mi southeast of Windy railroad station, and 2 mi downstream from Schist Creek.	710	‡1950-56 1957 ‡1958-73 2003-04	06-15-05	5,400
15517000 Nenana River near McKinley Village	Tanana River	Lat 63°39′27″, long 148°49′45″, in SW¼, sec. 36, T. 14 S., R. 7 W. (Healy B-4 quad), 10 mi south of entrance to Denali National Park, at mi 231.2 George Parks Highway, and 0.5 mi north of McKinley Village.	1,184	1998 2004	08-11-05	2,690
		NORTHWEST ALASKA				
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, 36 mi north of Noatak, and 50 mi northeast of Kivalina. Teck-Cominco Station 9.	59.2	‡1991-92 1993-2004	07-06-05 09-12-05	78 123
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. TeckCominco Station 140.	4.74 (total) 4.3 (contributing)	‡1991-92 1993-2004	05-19-05 07-07-05 07-10-05 09-10-05	13 3.6 3.0 5.8
15746989 Red Dog Creek below North Fork Red Dog Creek near Kivalina	Ikalukrok Creek	Lat 68°04′58″, long 162°53′38″, in SE¼, sec. 13, T. 31 N., R. 19 W. (DeLong Mts A-2 quad) 0.3 mi downstream of North Fork of Red Dog Creek, 1.5 mi northwest of Red Dog Mine, 36 mi north of Noatak, and 50 mi northeast of Kivalina. TeckCominco Station 151.	23.6	2004	05-20-05 05-22-05 07-07-05 07-10-05 09-11-05	94 183 22 22 42

Discharge measurements made at miscellaneous sites during water year 2005
[Footnotes at end of table on page 377]

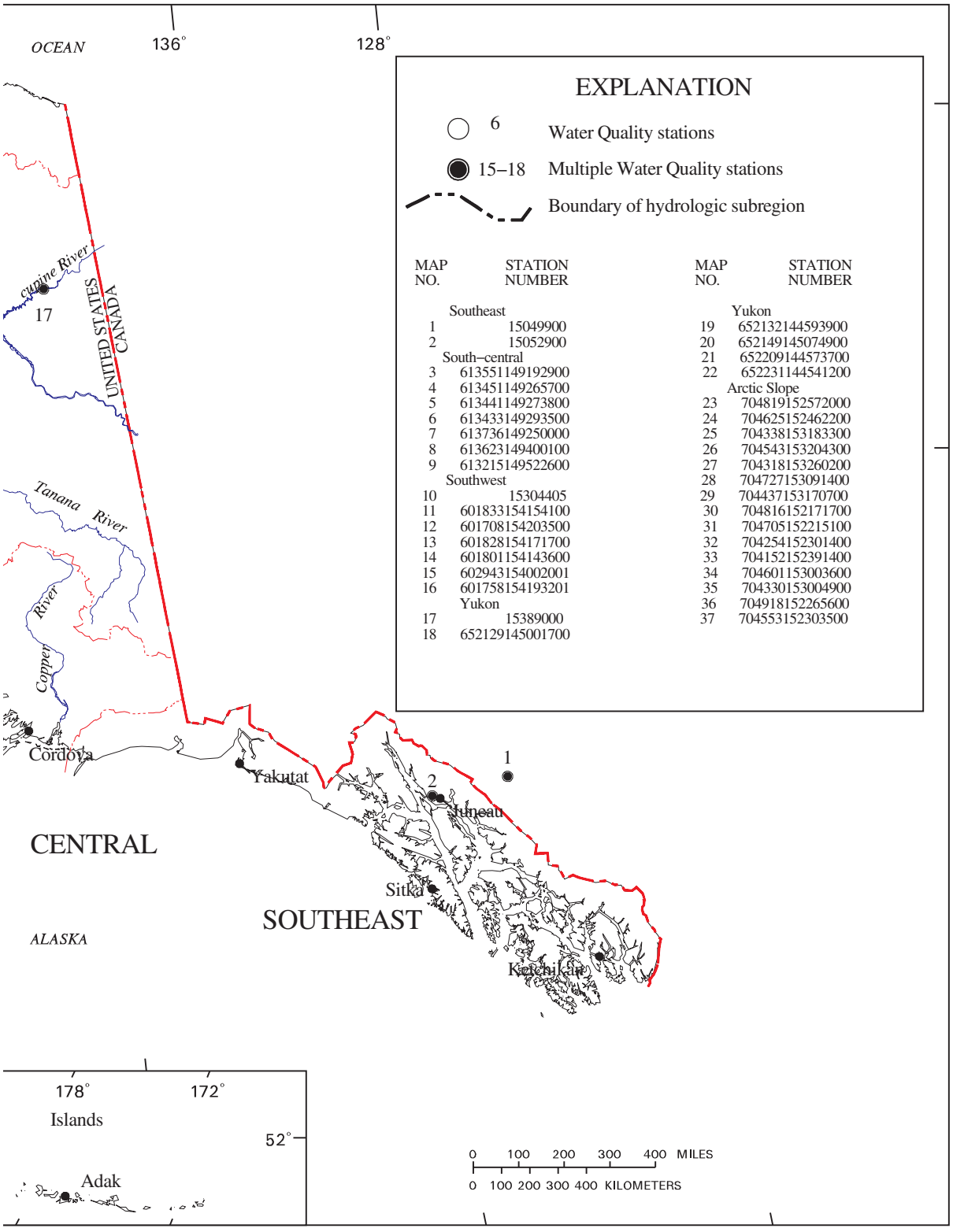
Stream	Tributary to	Location	Drainage area (mi^2)	Measured previously (water years)	Measurements	
					Date	Discharge (ft^3/s)
NORTHWEST ALASKA—Continued						
15746990 Red Dog Creek above Mouth near Kivalina	Ikalukrok Creek	Lat 68°05′22″, long 162°56′22″, in NW¼, sec. 13, T. 31 N., R. 19 W. (DeLong Mts A-2 quad), 1000 ft upstream from mouth, 2.3 mi northwest of Red Dog Mine, 36 mi north of Noatak, and 50 mi northeast of Kivalina. TeckCominco Station 10.	24.6 (total) 21.4 (contributing)	‡1991-92 1993-2004	07-08-05 09-12-05	26 58
15746995 Ikalukrok Creek 4.3 mi below Dudd Creek near Kivalina	Wulik River	Lat 67°58′06″, long 163°09′44″, in SE¼, sec. 26, T. 30 N., R. 20 W. (Noatak D-3 quad), 4.3 miles below Dudd Creek, 11 mi southwest of Red Dog Mine, 28 mi north of Noatak, and 39 mi northeast of Kivalina. TeckCominco Station 160.	147 (total) 140 (contributing)	2002-04	07-05-05 09-12-05	139 286
ARCTIC SLOPE ALASKA						
15803000 Meade River at Atkasuk	Admiralty Bay	Lat 70°29′20″, long 157°24′40″, in SW¼ SE¼ SW¼, sec. 7, T. 13 N., R. 21 W. (Meade River B-3 quad), at Atkasuk, 3 miles upstream from Usuktuk River and 60 miles south of Barrow.	1,780	‡1977 1978	09-02-05	81

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
a Approximately
b Previously published as Newhalen River Tributary
g Not previously published
u Undetermined



Map 3. Locations of samples collected at miscellaneous sites.


OCEAN
136°
128°
EXPLANATION
6 Water Quality stations
15–18 Multiple Water Quality stations
Boundary of hydrologic subregion
MAP NO. STATION NUMBER
Southeast
1 15049900
2 15052900
South–central
3 613551149192900
4 613451149265700
5 613441149273800
6 613433149293500
7 613736149250000
8 613623149400100
9 613215149522600
Southwest
10 15304405
11 601833154154100
12 601708154203500
13 601828154171700
14 601801154143600
15 602943154002001
16 601758154193201
Yukon
17 15389000
18 652129145001700
MAP NO. STATION NUMBER
Yukon
19 652132144593900
20 652149145074900
21 652209144573700
22 652231144541200
Arctic Slope
23 704819152572000
24 704625152462200
25 704338153183300
26 704543153204300
27 704318153260200
28 704727153091400
29 704437153170700
30 704816152171700
31 704705152215100
32 704254152301400
33 704152152391400
34 704601153003600
35 704330153004900
36 704918152265600
37 704553152303500
Yukon River
UNITED STATES
CANADA
17
Tanana River
Copper River
Cordova
Yakutat
1
2
Juneau
Sitka
Ketchikan
CENTRAL
SOUTHEAST
ALASKA
178°
172°
Islands
52°
Adak
0 100 200 300 400 MILES
0 100 200 300 400 KILOMETERS

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTHEAST ALASKA

15049900 -- GOLD CREEK NEAR JUNEAU

PERIOD OF RECORD.-- Water years 1985 to current year.

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Color, water, fltrd, Pt-Co units (00080)
NOV													
17...	1220	9	9	32.0	61	10	3044	10	129	7.8	4.0	3.7	<1
JAN													
20...	1305	9	9	24.6	16	10	3044	--	183	7.5	-.5	2.4	5
FEB													
10...	1010	9	9	28.0	19	10	3044	--	164	8.0	1.5	2.5	5
MAR													
15...	1325	9	9	31.6	50	10	3044	--	129	7.9	11.0	3.2	<1
APR													
18...	1320	9	9	29.0	30	10	3044	--	130	7.4	8.5	4.1	2
MAY													
31...	1055	9	9	41.0	153	10	3044	--	90	7.8	--	5.5	2
JUN													
27...	1000	9	9	38.5	126	10	3044	--	100	7.7	22.0	6.6	<1
AUG													
01...	1100	9	9	37.5	90	10	3044	--	149	7.9	--	7.4	2
23...	1055	9	9	39.0	90	10	3044	30	111	7.9	14.5	8.4	5
SEP													
27...	1145	9	9	37.0	100	10	3044	--	179	7.6	12.0	6.6	<1

Date	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)
NOV													
17...	<2	743	12.6	98	60	17.2	4.21	.89	38	31	26.1	.81	<.10
JAN													
20...	<2	749	13.5	100	90	23.7	7.45	1.32	41	34	50.0	.91	E.05
FEB													
10...	<2	740	13.4	101	75	20.3	5.78	1.50	38	32	38.5	.97	<.10
MAR													
15...	<2	754	13.2	100	62	17.7	4.24	.99	34	28	26.7	.87	<.10
APR													
18...	3	760	12.8	98	66	18.3	4.87	1.02	37	30	27.9	.94	<.10
MAY													
31...	<2	753	12.5	100	40	11.6	2.59	.68	24	20	18.6	.64	.08
JUN													
27...	<2	754	12.1	100	42	11.7	3.04	2.12	22	18	25.3	.39	.08
AUG													
01...	<2	751	12.8	108	64	17.8	4.67	2.42	30	25	39.3	.32	<.10
23...	<2	757	11.8	101	51	15.3	2.98	1.43	29	24	24.5	.30	<.10
SEP													
27...	<2	750	12.1	100	84	24.8	5.44	2.91	39	31	51.3	.33	<.10

Date	Bromide water, fltrd, mg/L (71870)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Orthophosphate, water, fltrd, mg/L as P (00671)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)
NOV													
17...	<.02	2.85	71	<.008	.361	E.02	<.02	<1.9	36.1	<.2	<2.0	<.8	<2
JAN													
20...	E.01	2.92	112	<.008	.326	<.04	<.02	<1.9	40.1	<.2	<2.0	<.8	<2
FEB													
10...	<.02	2.76	101	<.008	.324	<.04	<.02	<1.9	36.4	<.2	<2.0	<.8	<2
MAR													
15...	.04	2.88	68	<.008	.361	<.04	<.02	<1.9	36.5	<.2	<2.0	<.8	<2
APR													
18...	.04	2.87	78	<.008	.386	<.04	<.02	<1.9	37.7	<.2	<2.0	<.8	<2
MAY													
31...	<.01	1.76	58	<.008	E.045	<.04	<.02	<1.9	24.9	<.2	<2.0	<.8	<2
JUN													
27...	<.01	1.59	61	<.008	<.060	<.04	<.02	<1.9	23.0	<.2	<2.0	<.8	<2
AUG													
01...	.03	2.16	91	<.008	.077	<.04	<.02	<1.9	30.2	<.2	<2.0	<.8	<2
23...	.03	2.23	60	<.008	.088	<.04	<.02	.4	31.3	<.2	<2.0	<.8	<2
SEP													
27...	.04	2.73	115	<.008	.192	<.04	<.02	.5	32.6	<.2	<2.0	E.03	<2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTHEAST ALASKA—Continued

15049900 -- GOLD CREEK NEAR JUNEAU—Continued

Date	Copper, water, fltrd, ug/L (01040)	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, fltrd, ug/L (71890)	Molyb-denum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selen-ium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Stront-ium, water, fltrd, ug/L (01080)	Vanad-ium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)
NOV													
17...	E1	<6	E.05	<2	<.6	<.010	<4	<2	<2.6	<2.8	91.6	<2	E5
JAN													
20...	<2	E4	<.08	<2	<.6	<.010	<4	E2	<2.6	<2.8	132	<2	E5
FEB													
10...	<2	<6	<.08	<2	<.6	<.010	E2	E1	<2.6	<2.8	111	<2	E4
MAR													
15...	<2	<6	<.08	<2	<.6	<.010	E2	E2	<2.6	<2.8	88.1	<2	E3
APR													
18...	<2	E3	<.08	<2	<.6	<.010	<4	<2	<2.6	<2.8	90.0	<2	E3
MAY													
31...	<2	<6	<.08	<2	<.6	<.010	E2	<2	<2.6	<2.8	59.9	<2	E6
JUN													
27...	<2	<6	E.07	<2	3.2	<.010	<4	E1	<2.6	<2.8	71.6	<2	6
AUG													
01...	<2	<6	<.08	<2	2.9	<.010	<4	E2	<2.6	<2.8	118	<2	E5
23...	<2	E4	<.08	<2	E.5	.073	<4	E1	.3	<2.8	76.0	<2	<6
SEP													
27...	<2	<6	<.08	<2	2.2	.040	<4	E2	.6	<2.8	150	<2	E6

15052900 -- MENDENHALL RIVER AT BROTHERHOOD BRIDGE AT AUKE BAY

PERIOD OF RECORD--Water years 1948-50, 1968, and 2001-05(discontinued).

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Gage height, feet (00065)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)
DEC													
07...	1415	9	9	158	10.18	346	10	3044	111	6.9	-.5	.5	67
FEB													
01...	1200	9	9	146	--	295	10	3044	797	7.2	.0	.5	24
JUN													
07...	0900	9	9	199	12.24	2230	10	3054	33	7.0	10.0	5.0	--
SEP													
07...	1100	9	9	214	14.55	5120	10	3054	22	7.0	12.5	3.0	71

Date	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	Calcium water unfltrd recover -able, mg/L (00916)	Magnes-ium, water, unfltrd recover -able, mg/L (00927)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Barium, water, unfltrd recover -able, ug/L (01007)	Cadmium water, unfltrd ug/L (01027)	Copper, water, unfltrd recover -able, ug/L (01042)	Iron, water, unfltrd recover -able, ug/L (01045)	Lead, water, unfltrd recover -able, ug/L (01051)
DEC													
07...	737	--	--	10.0	3.93	24	20	.1	162	<.22	3	4570	E.7
FEB													
01...	744	12.6	90	12.2	14.0	29	24	.1	65	<.22	2	2040	<1
JUN													
07...	757	12.9	102	5.03	1.65	11	9	<.1	105	<.22	1	2920	<1
SEP													
07...	755	13.2	99	4.29	2.46	8	7	E.07	154	.04	5.08	4980	.9

Date	Mangan-ese, water, unfltrd recover -able, ug/L (01055)	Selen-ium, water, unfltrd ug/L (01147)	Silver, water, unfltrd recover -able, ug/L (01077)	Zinc, water, unfltrd recover -able, ug/L (01092)
DEC				
07...	89.3	<2.6	<.26	15
FEB				
01...	50.1	<2.6	<.26	8
JUN				
07...	47.4	<2.6	<.26	6
SEP				
07...	79.5	.1	<.16	18

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTHWEST ALASKA

601833154154100 -- KIJIK RIVER ABOVE LITTLE KIJIK RIVER NEAR PORT ALSWORTH

PERIOD OF RECORD--Water years 2003-05 (discontinued).

Date	Time	Medium code	Sample type	Instantaneous discharge, cfs (00061)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)
OCT													
04...	1450	9	9	258	10	3045	92	7.4	6.5	737	11.4	96	38
04...	1455	H	9	258	--	--	--	--	--	--	--	--	--

Date	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)
OCT													
04...	13.2	1.32	2.48	.27	36	.0	28	12.8	.50	.2	7.14	62	56
04...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Organic carbon, water, fltrd, mg/L (00681)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Pheophytin a, phytoplankton, ug/L (62360)
OCT													
04...	E.001	.212	<.010	<.10	<.10	<.004	<.004	<.006	8	1.0	.4	.1	<.1
04...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Suspended sediment concentration mg/L (80154)	Aluminum, bed sed <62.5um wet svd fld,tot percent (34790)	Antimony, bed sed <62.5um wet svd fld,tot ug/g (34795)	Arsenic bed sed <62.5um wet svd field, total, ug/g (34800)	Barium, bed sed <62.5um wet svd field, total, ug/g (34805)	Beryllium, bed sed <62.5um wet svd fld,tot ug/g (34810)	Bismuth bed sed <177um wet svd field, total, ug/g (34816)	Cadmium bed sed <62.5um wet svd field, total, ug/g (34825)	Chromium, bed sed <62.5um wet svd fld,tot ug/g (34840)	Copper, bed sed <62.5um wet svd field, total, ug/g (34850)	Calcium bed sed <62.5um wet svd field, total, percent (34830)	Cobalt, bed sed <62.5um wet svd field, total, ug/g (34845)	Cerium, bed sed <62.5um wet svd field, total, ug/g (34835)
OCT													
04...	<1	--	--	--	--	--	--	--	--	--	--	--	--
04...	--	7.4	1.9	24	810	2.4	<1	.4	62	26	1.7	10	68

Date	Europium, bed sed <62.5um wet svd fld,tot ug/g (34855)	Gold, bed sed <62.5um wet svd field, total, ug/g (34870)	Gallium bed sed <62.5um wet svd field, total, ug/g (34860)	Holmium bed sed <62.5um wet svd field, total, ug/g (34875)	Iron, bed sed <62.5um wet svd field, total, percent (34880)	Lanthanum, bed sed <62.5um wet svd fld,tot ug/g (34885)	Lead, bed sed <62.5um wet svd field, total, ug/g (34890)	Lithium bed sed <62.5um wet svd field, total, ug/g (34895)	Magnesium, bed sed <62.5um wet svd fld,tot percent (34900)	Manganese, bed sed <62.5um wet svd fld,tot ug/g (34905)	Mercury bed sed <62.5um wet svd field, total, ug/g (34910)	Molybdenum, bed sed <62.5um wet svd fld,tot ug/g (34915)	Neodymium, bed sed <62.5um wet svd fld,tot ug/g (34920)
OCT													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
04...	1	<1	19	1	3.7	36	24	32	.960	1000	.02	1.6	37

Date	Nickel, bed sed <62.5um wet svd field, total, ug/g (34925)	Niobium bed sed <62.5um wet svd field, total, ug/g (34930)	Phosphorus, bed sed <62.5um wet svd fld,tot percent (34935)	Scandium, bed sed <62.5um wet svd fld,tot ug/g (34945)	Selenium, bed sed <62.5um wet svd fld,tot ug/g (34950)	Silver, bed sed <62.5um wet svd field, total, ug/g (34955)	Sodium, bed sed <62.5um wet svd field, total, percent (34960)	Strontium, bed sed <62.5um wet svd fld,tot ug/g (34965)	Sulfur, bed sed <62.5um wet svd field, total, percent (34970)	Tantalum, bed sed <62.5um wet svd fld,tot ug/g (34975)	Thorium bed sed <62.5um wet svd field, total, ug/g (34980)	Tin, bed sed <62.5um wet svd field, total, ug/g (34985)	Titanium, bed sed <62.5um wsv nat rec, percent (49274)
OCT													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
04...	16	21	.089	15	.1	.4	2.6	240	<.05	1	7	3	.500

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTHWEST ALASKA—Continued

601708154203500 -- LITTLE KIJIK RIVER ABOVE KIJIK LAKE NEAR PORT ALSWORTH—Continued

Date	Tant-alum, bed sed <62.5um wet svd fld,tot ug/g (34975)	Thorium bed sed <62.5um wet svd field, total, ug/g (34980)	Tin, bed sed <62.5um wet svd field, total, ug/g (34985)	Titan-ium, bed sed <62.5um wsv nat rec, percent (49274)	Uranium bed sed <62.5um wet svd field, total, ug/g (35000)	Vanad-ium, bed sed <62.5um wet svd fld,tot ug/g (35005)	Yttrium bed sed <62.5um wet svd field, total, ug/g (35010)	Ytterb-ium, bed sed <62.5um wet svd fld,tot ug/g (35015)	Zinc, bed sed <62.5um wet svd field, total, ug/g (35020)	Organic carbon, bed sed <62.5um wsv nat field percent (49266)	Inorg. carbon, bed sed <62.5um wsv nat field percent (49269)	Total carbon, sedimnt <62.5um wsv nat field percent (49267)
OCT												
06...	--	--	--	--	--	--	--	--	--	--	--	--
06...	1	12	3	.590	6.2	140	34	3	170	2.4	.02	2.5

601828154171700 -- LITTLE KIJIK RIVER BELOW KIJIK LAKE NEAR PORT ALSWORTH

PERIOD OF RECORD--.Water years 2003-05 (discontinued)

Date	Time	Medium code	Sample type	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	Hard-ness, water, mg/L as CaCO3 (00900)
OCT													
06...	1420	H	9	88	--	--	--	--	--	--	--	--	--
06...	1415	9	9	88	10	3045	62	6.2	8.3	739	10.9	96	25

Date	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon-ate, wat flt incrm. titr., field, mg/L (00452)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of consti-tuents mg/L (70301)
OCT													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	8.58	.872	2.11	.34	25	.0	19	7.5	.50	.1	6.45	38	41

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	Organic carbon, water, fltrd, mg/L (00681)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Pheo-phytin a, phyto-plank-ton, ug/L (62360)
OCT													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	.003	.403	.027	E.08	.11	.004	.008	<.006	E3	.8	.6	.8	.5

Date	Sus-pended sedi-ment concen-tration mg/L (80154)	Alum-inum, bed sed <62.5um wet svd fld,tot percent (34790)	Anti-mony, bed sed <62.5um wet svd fld,tot ug/g (34795)	Arsenic bed sed <62.5um wet svd field, total, ug/g (34800)	Barium, bed sed <62.5um wet svd field, total, ug/g (34805)	Beryll-ium, bed sed <62.5um wet svd fld,tot ug/g (34810)	Bismuth bed sed <177um wet svd field, total, ug/g (34816)	Cadmium bed sed <62.5um wet svd field, total, ug/g (34825)	Chrom-ium, bed sed <62.5um wet svd fld,tot ug/g (34840)	Copper, bed sed <62.5um wet svd field, total, ug/g (34850)	Calcium bed sed <62.5um wet svd field, total, percent (34830)	Cobalt, bed sed <62.5um wet svd field, total, ug/g (34845)	Cerium, bed sed <62.5um wet svd field, total, ug/g (34835)
OCT													
06...	--	6.7	1.2	26	680	2.0	<1	.6	47	25	1.8	9	72
06...	<1	--	--	--	--	--	--	--	--	--	--	--	--

Date	Europ-ium, bed sed <62.5um wet svd fld,tot ug/g (34855)	Gold, bed sed <62.5um wet svd field, total, ug/g (34870)	Gallium bed sed <62.5um wet svd field, total, ug/g (34860)	Holmium bed sed <62.5um wet svd field, total, ug/g (34875)	Iron, bed sed <62.5um wet svd field, total, percent (34880)	Lantha-num, bed sed <62.5um wet svd fld,tot ug/g (34885)	Lead, bed sed <62.5um wet svd field, total, ug/g (34890)	Lithium bed sed <62.5um wet svd field, total, ug/g (34895)	Magnes-ium, bed sed <62.5um wet svd fld,tot percent (34900)	Mangan-ese, bed sed <62.5um wet svd fld,tot ug/g (34905)	Mercury bed sed <62.5um wet svd field, total, ug/g (34910)	Molyb-denum, bed sed <62.5um wet svd fld,tot ug/g (34915)	Neodym-ium, bed sed <62.5um wet svd fld,tot ug/g (34920)
OCT													
06...	1	<1	18	1	2.9	40	24	32	.900	720	.03	3.9	40
06...	--	--	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTHWEST ALASKA—Continued

601828154171700 -- LITTLE KIJIK RIVER BELOW KIJIK LAKE NEAR PORT ALSWORT—Continued

Date	Nickel, bed sed <62.5um wet svd field, total, ug/g (34925)	Niobium bed sed <62.5um wet svd field, total, ug/g (34930)	Phos-phorus, bed sed <62.5um wet svd fld,tot percent (34935)	Scand-ium, bed sed <62.5um wet svd fld,tot ug/g (34945)	Selen-ium, bed sed <62.5um wet svd fld,tot ug/g (34950)	Silver, bed sed <62.5um wet svd field, total, ug/g (34955)	Sodium, bed sed <62.5um wet svd field, total, percent (34960)	Stront-ium, bed sed <62.5um wet svd fld,tot ug/g (34965)	Sulfur, bed sed <62.5um wet svd field, total, percent (34970)	Tant-alum, bed sed <62.5um wet svd fld,tot ug/g (34975)	Thorium bed sed <62.5um wet svd field, total, ug/g (34980)	Tin, bed sed <62.5um wet svd field, total, ug/g (34985)	Titan-ium, bed sed <62.5um wsv nat rec, percent (49274)
OCT													
06...	14	16	.100	14	.6	.3	2.1	230	.10	1	8	3	.400
06...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Uranium bed sed <62.5um wet svd field, total, ug/g (35000)	Vanad-ium, bed sed <62.5um wet svd fld,tot ug/g (35005)	Yttrium bed sed <62.5um wet svd field, total, ug/g (35010)	Ytterb-ium, bed sed <62.5um wet svd fld,tot ug/g (35015)	Zinc, bed sed <62.5um wet svd field, total, ug/g (35020)	Organic carbon, bed sed <62.5um wsv nat field percent (49266)	Inorg. carbon, bed sed <62.5um wsv nat field percent (49269)	Total carbon, sedimnt <62.5um wsv nat field percent (49267)
OCT								
06...	10	75	30	3	120	3.1	.03	3.2
06...	--	--	--	--	--	--	--	--

601801154143600 -- KIJIK RIVER 1.5 MILE ABOVE MOUTH NEAR PORT ALSWORTH

PERIOD OF RECORD--.Water years 2003-05 (discontinued).

Date	Time	Medium code	Sample type	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	Hard-ness, water, mg/L as CaCO3 (00900)
OCT													
04...	1610	9	9	346	10	3045	87	7.5	6.8	738	11.1	94	36
04...	1615	H	9	346	--	--	--	--	--	--	--	--	--

Date	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon-ate, wat flt incrm. titr., field, mg/L (00452)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of consti-tuents mg/L (70301)
OCT													
04...	12.5	1.25	2.33	.35	47	.0	26	11.8	.45	.2	7.06	58	60
04...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	Organic carbon, water, fltrd, mg/L (00681)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Pheo-phytin a, phyto-plank-ton, ug/L (62360)
OCT													
04...	E.001	.252	E.007	<.10	<.10	E.002	<.004	<.006	9	.7	.8	.3	.2
04...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Alum-inum, bed sed <62.5um wet svd fld,tot percent (34790)	Anti-mony, bed sed <62.5um wet svd fld,tot ug/g (34795)	Arsenic bed sed <62.5um wet svd field, total, ug/g (34800)	Barium, bed sed <62.5um wet svd field, total, ug/g (34805)	Beryll-ium, bed sed <62.5um wet svd fld,tot ug/g (34810)	Bismuth bed sed <177um wet svd field, total, ug/g (34816)	Cadmium bed sed <62.5um wet svd field, total, ug/g (34825)	Chrom-ium, bed sed <62.5um wet svd fld,tot ug/g (34840)	Copper, bed sed <62.5um wet svd field, total, ug/g (34850)	Calcium bed sed <62.5um wet svd field, total, percent (34830)	Cobalt, bed sed <62.5um wet svd field, total, ug/g (34845)
OCT													
04...	5	4.7	--	--	--	--	--	--	--	--	--	--	--
04...	--	--	7.4	2.0	32	790	2.4	<1	.7	69	34	1.7	12

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTHWEST ALASKA—Continued

601801154143600 -- KIJIK RIVER 1.5 MILE ABOVE MOUTH NEAR PORT ALSWORTH—Continued

Date	Cerium, bed sed <62.5um wet svd field, total, ug/g (34835)	Europ-ium, bed sed <62.5um wet svd fld,tot ug/g (34855)	Gold, bed sed <62.5um wet svd field, ug/g (34870)	Gallium bed sed <62.5um wet svd field, total, ug/g (34860)	Holmium bed sed <62.5um wet svd field, total, ug/g (34875)	Iron, bed sed <62.5um wet svd field, total, percent (34880)	Lantha-num, bed sed <62.5um wet svd fld,tot ug/g (34885)	Lead, bed sed <62.5um wet svd field, total, ug/g (34890)	Lithium bed sed <62.5um wet svd field, total, ug/g (34895)	Magnes-ium, bed sed <62.5um wet svd fld,tot percent (34900)	Mangan-ese, bed sed <62.5um wet svd fld,tot ug/g (34905)	Mercury bed sed <62.5um wet svd field, total, ug/g (34910)	Molyb-denum, bed sed <62.5um wet svd fld,tot ug/g (34915)
OCT													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
04...	66	1	<1	19	1	3.9	38	32	33	1.1	1200	<.02	2.4

Date	Neodym-ium, bed sed <62.5um wet svd fld,tot ug/g (34920)	Nickel, bed sed <62.5um wet svd field, total, ug/g (34925)	Niobium bed sed <62.5um wet svd field, total, ug/g (34930)	Phos-phorus, bed sed <62.5um wet svd fld,tot percent (34935)	Scand-ium, bed sed <62.5um wet svd fld,tot ug/g (34945)	Selen-ium, bed sed <62.5um wet svd fld,tot ug/g (34950)	Silver, bed sed <62.5um wet svd field, total, ug/g (34955)	Sodium, bed sed <62.5um wet svd field, total, percent (34960)	Stront-ium, bed sed <62.5um wet svd fld,tot ug/g (34965)	Sulfur, bed sed <62.5um wet svd field, total, percent (34970)	Tant-alum, bed sed <62.5um wet svd fld,tot ug/g (34975)	Thorium bed sed <62.5um wet svd field, total, ug/g (34980)	Tin, bed sed <62.5um wet svd field, total, ug/g (34985)
OCT													
04...	--	--	--	--	--	--	--	--	--	--	--	--	--
04...	37	20	17	.086	15	.2	.4	2.4	230	<.05	1	8	4

Date	Titan-ium, bed sed <62.5um wsv nat rec, percent (49274)	Uranium bed sed <62.5um wet svd field, total, ug/g (35000)	Vanad-ium, bed sed <62.5um wet svd fld,tot ug/g (35005)	Yttrium bed sed <62.5um wet svd field, total, ug/g (35010)	Ytterb-ium, bed sed <62.5um wet svd fld,tot ug/g (35015)	Zinc, bed sed <62.5um wet svd field, total, ug/g (35020)	Organic carbon, bed sed <62.5um wsv nat field percent (49266)	Inorg. carbon, bed sed <62.5um wsv nat field percent (49269)	Total carbon, sedimnt <62.5um wsv nat field percent (49267)
OCT									
04...	--	--	--	--	--	--	--	--	--
04...	.460	4.7	90	30	3	150	1.1	.01	1.1

15304405 -- MARTERVIK SPRING CREEK NEAR NEWTOK

PERIOD OF RECORD--.Water year 2005.

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
MAY													
27...	1400	9	9	9.50	3.9	70	98	7.2	15.5	1.8	728	--	--
SEP													
28...	1220	9	9	3.00	3.0	70	98	7.5	--	1.7	740	13.6	100

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

YUKON ALASKA

15389000 -- PORCUPINE RIVER NEAR FORT YUKON

PERIOD OF RECORD--.Water years 1966-72, 1974-75, 1978, and 2001-05 (discontinued).

Date	Time	Location in X-sect. looking dwnstrm ft from l bank (00009)	Sample location, cross section ft from rt bank (72103)	Specif. conduct-ance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
APR									
06...	1620	10.0	--	403	7.4	.0	748	4.6	32
06...	1622	70.0	--	403	7.4	.0	748	4.6	32
06...	1624	135	--	403	7.4	.0	748	4.6	32
06...	1626	190	--	403	7.4	.0	748	4.6	32
06...	1628	250	--	403	7.4	.0	748	4.6	32
06...	1630	460	--	403	7.4	.0	748	4.6	32
06...	1632	485	--	403	7.4	.0	748	4.8	33
MAY									
25...	1530	--	70.0	130	7.7	7.5	--	11.3	--
25...	1532	--	261.0	129	7.7	7.5	--	11.3	--
25...	1534	--	479.0	126	7.7	7.3	--	11.3	--
25...	1536	--	729.0	124	7.7	7.3	--	11.2	--
25...	1538	--	991.0	121	7.6	7.5	--	11.0	--
JUN									
07...	1720	--	70.0	133	7.6	12.0	--	9.3	--
07...	1722	--	250.0	133	7.6	12.0	--	9.3	--
07...	1724	--	440.0	132	7.6	11.8	--	9.2	--
07...	1726	--	650.0	131	7.6	11.8	--	9.1	--
07...	1728	--	910.0	132	7.6	11.9	--	9.2	--
JUL									
14...	1450	--	56.0	262	7.8	15.3	755	9.4	94
14...	1452	--	230.0	262	7.8	15.3	755	9.3	94
14...	1454	--	375.0	261	7.9	15.3	755	9.2	93
14...	1456	--	560.0	261	7.9	15.2	755	9.2	92
14...	1458	--	780.0	261	7.9	15.2	755	9.2	92
AUG									
03...	1350	--	120.0	263	8.0	12.6	--	9.7	--
03...	1352	--	270.0	263	8.0	12.7	--	9.7	--
03...	1354	--	381.0	263	8.0	12.8	--	9.6	--
03...	1356	--	510.0	263	8.0	12.8	--	9.6	--
03...	1358	--	632.0	263	8.0	12.9	--	9.6	--
26...	1320	--	157.0	--	--	--	753	--	--
26...	1322	--	270.0	257	8.1	11.4	753	11.5	107
26...	1324	--	396.0	257	8.0	11.4	753	11.1	103
26...	1326	--	575.0	257	8.0	11.5	753	11.1	103
26...	1328	--	802.0	257	8.0	11.6	753	11.2	104

Date	Time	Medium code	Sample type	Stream width, feet (00004)	Instan-taneous dis-charge, cfs (00061)	Sam-pling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Type of blank sample, code (99102)	Type of repli-cate, code (99105)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)
APR													
06...	1540	9	9	--	830	20	3045	110	--	--	403	7.4	-2.2
MAY													
19...	1300	9	9	1480	E92600	70	3070	1	--	--	100	7.4	--
25...	1510	9	9	--	51300	--	3055	110	--	--	126	7.7	--
JUN													
07...	1700	9	9	--	40100	20	3055	10	100	--	132	7.6	23.8
JUL													
14...	1430	9	7	--	16400	20	3055	30	--	10	261	7.8	--
AUG													
03...	1330	9	9	850	4770	20	3045	110	--	--	263	8.0	17.0
26...	1300	9	9	960	4520	20	3045	110	--	--	257	8.0	15.3

Date	Temper-ature, water, deg C (00010)	Turbdty white light, det ang 90+/-30 corrctd NTRU (63676)	UV absorb-ance, 254 nm, wat flt units /cm (50624)	UV absorb-ance, 280 nm, wat flt units /cm (61726)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)
APR													
06...	.0	<2	.0397	.0287	748	4.6	32	210	62.4	14.1	5.69	.67	209
MAY													
19...	6.1	E99	.6531	.4936	747	11.2	92	50	15.5	2.80	1.20	.97	41
25...	7.5	88	.5441	.4083	--	11.3	--	61	18.7	3.45	1.32	1.02	59
JUN													
07...	11.9	40	.5344	.3967	--	9.2	--	69	20.4	4.45	1.81	.71	62
JUL													
14...	15.3	17	.1871	.1368	755	9.2	93	130	39.8	8.35	4.23	.70	--
AUG													
03...	12.8	2	.1731	.1225	--	9.6	--	130	38.6	8.42	3.55	.67	110
26...	11.5	<2	.2378	.1702	753	11.2	104	79	22.8	5.32	2.70	.36	102

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

YUKON ALASKA—Continued

15389000 -- PORCUPINE RIVER NEAR FORT YUKON—Continued

Date	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)
APR													
06...	.0	173	34.4	5.07	.13	4.69	234	231	<.002	.205	<.010	<.1	<.1
MAY													
19...	.0	34	11.0	.61	E.05	2.20	99	55	E.001	.026	E.005	E.8	.5
25...	.0	48	12.8	.68	E.05	2.50	105	70	.003	.049	E.005	.9	.7
JUN													
07...	.0	51	16.9	.86	E.06	3.14	97	79	E.001	.034	<.010	.6	.4
JUL													
14...	.0	80	40.9	2.18	E.09	2.84	163	147	E.001	<.016	<.010	.3	.2
AUG													
03...	.0	90	43.1	1.67	.11	2.87	168	153	E.001	E.008	<.010	.2	.2
26...	.0	84	43.4	1.78	E.08	1.56	168	128	E.001	E.009	<.010	.3	.2

Date	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Aluminum, water, fltrd, ug/L (01106)	Antimony, water, fltrd, ug/L (01095)	Arsenic water, fltrd, ug/L (01000)	Barium, water, fltrd, ug/L (01005)	Beryllium, water, fltrd, ug/L (01010)	Boron, water, fltrd, ug/L (01020)	Cadmium water, fltrd, ug/L (01025)	Chromium, water, fltrd, ug/L (01030)	Cobalt water, fltrd, ug/L (01035)	Copper, water, fltrd, ug/L (01040)
APR													
06...	.004	E.003	<.006	2.1	<.2	.2	102	<.06	13	<.04	<.8	.173	.9
MAY													
19...	E.154	.015	<.006	68.8	<.2	.4	33.3	<.06	8	E.03	<.8	.304	3.7
25...	.169	.013	<.006	40.4	<.2	.4	42.4	<.06	E4	<.04	E.8	.259	3.3
JUN													
07...	.081	.011	<.006	39.0	<.2	.4	43.1	E.05	E6	<.04	E.6	.135	2.5
JUL													
14...	.041	E.003	<.006	11.2	<.2	.4	67.5	<.06	E7	<.04	<.8	.111	1.4
AUG													
03...	.006	E.003	<.006	9.5	<.2	.3	58.3	<.06	13	<.04	<.8	.093	1.5
26...	.006	E.003	<.006	12.2	<.2	E.2	43.6	E.03	E5	.05	<.8	.105	8.4

Date	Iron, water, fltrd, ug/L (01046)	Lead, water, fltrd, ug/L (01049)	Lithium water, fltrd, ug/L (01130)	Manganese, water, fltrd, ug/L (01056)	Molybdenum, water, fltrd, ug/L (01060)	Nickel, water, fltrd, ug/L (01065)	Selenium, water, fltrd, ug/L (01145)	Silver, water, fltrd, ug/L (01075)	Strontium, water, fltrd, ug/L (01080)	Vanadium, water, fltrd, ug/L (01085)	Zinc, water, fltrd, ug/L (01090)	Uranium natural water, fltrd, ug/L (22703)	Organic carbon, water, fltrd, mg/L (00681)
APR													
06...	7	<.08	8.5	16.0	.7	4.60	.4	<.20	187	.27	1.3	.82	1.3
MAY													
19...	302	<.08	2.6	17.3	<.4	3.61	E.2	<.20	44.3	.38	6.6	.26	17
25...	220	.12	2.4	6.8	E.3	3.74	E.3	<.20	42.9	.46	1.1	.25	15
JUN													
07...	224	.11	3.2	4.0	E.3	3.15	E.3	<.20	65.8	.46	.8	.21	14
JUL													
14...	29	<.08	5.8	1.3	.5	2.29	E.3	<.20	135	.24	.7	.46	6.2
AUG													
03...	16	<.08	5.3	2.2	.5	2.32	E.3	<.20	135	.30	E.5	.40	5.8
26...	20	.27	3.4	4.2	E.3	2.12	<.4	<.20	80.5	.15	16.0	.19	7.6

Date	Inorganic carbon, suspnd sedimnt total, mg/L (00688)	Organic carbon, suspnd sedimnt total, mg/L (00689)	Total carbon, suspnd sedimnt total, mg/L (00694)	Particulate nitrogen, susp, water, mg/L (49570)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)
APR							
06...	<.12	<.12	<.12	<.022	13	29	76
MAY							
19...	E.217	E3.87	E4.08	E.323	E178	--	E98
25...	.136	4.16	4.29	.370	158	21900	95
JUN							
07...	<.12	1.75	1.81	.134	69	7470	94
JUL							
14...	<.12	2.98	3.00	.160	34	1510	96
AUG							
03...	<.12	.274	.274	.037	1	13	81
26...	<.12	.231	.231	<.022	1	12	87

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

YUKON ALASKA—Continued

652149145074900 -- NORTH FORK HARRISON CREEK 0.1 MILE ABOVE MOUTH NEAR CENTRAL

Date	Time	Medium code	Sample type	Mercury water, unfltrd recover -able, ug/L (71900)	Mercury water, fltrd, ug/L (71890)
AUG 18...	1820	9	9	<.01	<.01

652129145001700 -- HARRISON CREEK 0.4 MILE ABOVE PTARMIGAN GULCH NEAR CENTRAL

Date	Time	Medium code	Sample type	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Sulfate water, fltrd, mg/L (00945)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)
AUG 31...	1600	9	9	80	24.9	4.29	.86	.76	22.2	<.20	<.1	4.60	115

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover -able, ug/L (71900)	Mercury water, fltrd, ug/L (71890)
AUG 31...	E.001	.185	<.010	.12	.13	.004	E.002	<.006	19	7.0	<.01	<.01

652132144593900 -- PTARMIGAN GULCH 0.2 MILE ABOVE MOUTH NEAR CENTRAL

Date	Time	Medium code	Sample type	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Dis-solved oxygen, mg/L (00300)	Mercury water, unfltrd recover -able, ug/L (71900)	Mercury water, fltrd, ug/L (71890)
AUG 31...	1500	9	9	173	7.8	6.8	11.7	<.01	<.01

652209144573700 -- HARRISON CREEK 1.3 MILE BELOW PTARMIGAN GULCH NEAR CENTRAL

Date	Time	Medium code	Sample type	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Sulfate water, fltrd, mg/L (00945)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)
AUG 31...	1400	9	9	82	25.2	4.54	.85	.75	24.2	<.20	<.1	4.57	117

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)	Mercury water, unfltrd recover -able, ug/L (71900)	Mercury water, fltrd, ug/L (71890)
AUG 31...	E.001	.205	<.010	.13	.11	E.003	<.004	<.006	16	15.0	<.01	<.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTHWEST ALASKA—Continued

601833154154100 -- KIJIK RIVER ABOVE LITTLE KIJIK RIVER NEAR PORT ALSWORTH—Continued

Date	Uranium bed sed <62.5um wet svd field, total, ug/g (35000)	Vanad-ium, bed sed <62.5um wet svd fld,tot ug/g (35005)	Yttrium bed sed <62.5um wet svd field, total, ug/g (35010)	Ytterb-ium, bed sed <62.5um wet svd fld,tot ug/g (35015)	Zinc, bed sed <62.5um wet svd field, total, ug/g (35020)	Organic carbon, bed sed <62.5um wsv nat field percent (49266)	Inorg. carbon, bed sed <62.5um wsv nat field percent (49269)	Total carbon, sedimnt <62.5um wsv nat field percent (49267)
OCT								
04...	--	--	--	--	--	--	--	--
04...	3.5	90	28	3	120	.42	<.01	.42

601708154203500 -- LITTLE KIJIK RIVER ABOVE KIJIK LAKE NEAR PORT ALSWORTH

PERIOD OF RECORD--.Water years 2003-05 (discontinued).

Date	Time	Medium code	Sample type	Instan-taneous dis-charge, cfs (00061)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Carbon-ate, wat flt incrm. titr., field, mg/L (00452)	Sulfate water, fltrd, mg/L (00945)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)
OCT													
06...	1700	9	9	39	22	7.48	.851	2.02	.36	.0	9.4	.41	E.1
06...	1705	H	9	39	--	--	--	--	--	--	--	--	--

Date	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
OCT													
06...	7.82	44	39	<.002	.423	<.010	<.10	E.05	.006	<.004	<.006	9	1.6
06...	--	--	--	--	--	--	--	--	--	--	--	--	--

Date	Organic carbon, water, fltrd, mg/L (00681)	Chloro-phyll a phyto-plank-ton, fluoro, ug/L (70953)	Pheo-phytin a, phyto-plank-ton, ug/L (62360)	Sus-pended sedi-ment concen-tration mg/L (80154)	Sus-pended sedi-ment dis-charge, tons/d (80155)	Alum-inum, bed sed <62.5um wet svd fld,tot percent (34790)	Anti-mony, bed sed <62.5um wet svd fld,tot ug/g (34795)	Arsenic bed sed <62.5um wet svd field, total, ug/g (34800)	Barium, bed sed <62.5um wet svd field, total, ug/g (34805)	Beryll-ium, bed sed <62.5um wet svd fld,tot ug/g (34810)	Bismuth bed sed <177um wet svd field, total, ug/g (34816)	Cadmium bed sed <62.5um wet svd field, total, ug/g (34825)	Chrom-ium, bed sed <62.5um wet svd fld,tot ug/g (34840)
OCT													
06...	.4	<.1	<.1	2	.21	--	--	--	--	--	--	--	--
06...	--	--	--	--	--	7.7	1.1	29	850	2.0	<1	1.0	110

Date	Copper, bed sed <62.5um wet svd field, total, ug/g (34850)	Calcium bed sed <62.5um wet svd field, total, percent (34830)	Cobalt, bed sed <62.5um wet svd field, total, ug/g (34845)	Cerium, bed sed <62.5um wet svd field, total, ug/g (34835)	Europ-ium, bed sed <62.5um wet svd fld,tot ug/g (34855)	Gold, bed sed <62.5um wet svd field, total, ug/g (34870)	Gallium bed sed <62.5um wet svd field, total, ug/g (34860)	Holmium bed sed <62.5um wet svd field, total, ug/g (34875)	Iron, bed sed <62.5um wet svd field, total, percent (34880)	Lantha-num, bed sed <62.5um wet svd fld,tot ug/g (34885)	Lead, bed sed <62.5um wet svd field, total, ug/g (34890)	Lithium bed sed <62.5um wet svd field, total, ug/g (34895)	Magnes-ium, bed sed <62.5um wet svd fld,tot percent (34900)
OCT													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	40	2.0	16	82	1	<1	20	1	4.7	43	28	48	1.3

Date	Mangan-ese, bed sed <62.5um wet svd fld,tot ug/g (34905)	Mercury bed sed <62.5um wet svd field, total, ug/g (34910)	Molyb-denum, bed sed <62.5um wet svd fld,tot ug/g (34915)	Neodym-ium, bed sed <62.5um wet svd fld,tot ug/g (34920)	Nickel, bed sed <62.5um wet svd field, total, ug/g (34925)	Niobium bed sed <62.5um wet svd field, total, ug/g (34930)	Phos-phorus, bed sed <62.5um wet svd fld,tot percent (34935)	Scand-ium, bed sed <62.5um wet svd fld,tot ug/g (34945)	Selen-ium, bed sed <62.5um wet svd fld,tot ug/g (34950)	Silver, bed sed <62.5um wet svd field, total, ug/g (34955)	Sodium, bed sed <62.5um wet svd field, total, percent (34960)	Stront-ium, bed sed <62.5um wet svd field, fld,tot ug/g (34965)	Sulfur, bed sed <62.5um wet svd field, total, percent (34970)
OCT													
06...	--	--	--	--	--	--	--	--	--	--	--	--	--
06...	1600	.03	3.2	44	32	17	.180	20	.9	.4	1.7	230	.05

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

YUKON ALASKA—Continued

652231144541200 -- HARRISON CREEK 0.2 MILE ABOVE SQUAW CREEK NEAR CENTRAL

Date	Time	Medium code	Sample type	Mercury water, unfltrd recover -able, ug/L (71900)	Mercury water, fltrd, ug/L (71890)
AUG 17...	1900	9	9	<.01	<.01

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTH-CENTRAL ALASKA

613551149192900 -- COTTONWOOD LAKE NORTH COLONIAL PARK LAUNCH NEAR WASILLA

Date	Time	Depth to bot. from surface at samp locatn, meters (82903)	Sampling depth, meters (00098)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, tot, wt 650-700 nm, in-situ ug/L (32234)
AUG										
11...	1254	10.6	1.0	184	8.8	20.9	764	11.0	123	--
11...	1256	10.6	2.0	183	8.8	20.6	764	11.2	124	--
11...	1258	10.6	3.0	188	8.7	18.6	764	10.6	113	--
11...	1300	10.6	4.0	187	8.7	17.6	764	10.2	107	--
11...	1302	10.6	5.0	190	8.4	17.0	764	9.3	96	--
11...	1304	10.6	6.0	199	8.0	16.0	764	7.6	77	--
11...	1306	10.6	7.0	235	7.3	13.9	764	1.2	12	--
11...	1308	10.6	8.0	264	7.2	10.2	764	.8	7	--
11...	1310	10.6	9.0	286	7.3	8.7	764	.7	6	--
11...	1312	10.6	10.0	294	7.2	8.3	764	.6	5	--
11...	1314	10.6	10.5	403	6.5	8.0	764	.6	5	--
SEP										
13...	1220	11.0	.50	211	8.1	13.0	757	8.4	80	3.60
13...	1222	11.0	1.0	211	8.2	12.9	757	8.4	80	3.90
13...	1224	11.0	1.5	211	8.3	12.8	757	8.4	80	4.60
13...	1226	11.0	2.0	211	8.5	12.9	757	9.2	88	4.60
13...	1228	11.0	3.0	210	8.5	12.8	757	9.6	91	4.60
13...	1230	11.0	4.0	211	8.8	12.8	757	8.5	81	4.20
13...	1232	11.0	5.0	211	8.9	12.8	757	8.3	79	3.80
13...	1234	11.0	6.0	211	8.8	12.7	757	7.9	75	3.50
13...	1236	11.0	7.0	212	8.8	12.7	757	7.4	70	3.30
13...	1238	11.0	8.0	212	8.8	12.6	757	7.1	67	3.70
13...	1240	11.0	9.0	213	8.8	12.5	757	6.8	64	3.00
13...	1242	11.0	10.0	219	8.6	12.0	757	4.9	46	4.20
13...	1244	11.0	10.5	262	8.5	10.5	757	.7	6	9.30
13...	1246	11.0	10.8	340	8.8	8.8	757	.9	8	--

Date	Time	Medium code	Sample type	Sampler type, code (84164)	Sampling depth, meters (00098)	Depth to top of samplng intrval meters (82047)	Depth to bottom of samplng intrval meters (82048)	Depth to bot. from surface at samp locatn, meters (82903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency Secchi disc, meters (00078)	Transparency water unfltrd secchi disc feet (49701)
AUG													
11...	1340	9	9	100	--	1.0	2.0	10.6	184	8.6	20.5	4.88	16.0
11...	1350	9	9	100	9.0	--	--	10.6	272	7.6	20.5	4.88	16.0
SEP													
13...	1300	9	9	100	5.0	--	--	11.0	209	--	17.5	3.66	12.0

Date	Barometric pressure, mm Hg (00025)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)
AUG													
11...	764	90	28.0	4.78	3.68	.94	84	3.1	6.50	<.1	5.58	117	103
11...	764	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
13...	758	--	--	--	--	--	--	--	--	--	--	--	--

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by anal ysis, mg/L (62854)	Total nitrogen, wat unf by anal ysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG													
11...	E.001	<.016	.40	.29	<.010	.009	.005	<.006	6	.8	-120	-14.30	3.6
11...	.002	<.016	2.28	2.35	1.68	.044	.006	<.006	--	--	-126	-15.71	3.1
SEP													
13...	.002	.034	.71	.42	.068	.013	<.004	<.006	--	--	-121	-14.39	3.8

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTH-CENTRAL ALASKA—Continued

613451149265700 -- LUCILE LAKE SPRING AREA NORTHEAST CORNER AT WASILLA

Date	Time	Depth to bot. from surface at samp locatn, meters (82903)	Sampling depth, meters (00098)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
SEP									
08...	1801	1.20	.10	228	8.8	14.9	768	11.6	114
08...	1803	1.20	.50	228	8.8	14.8	768	11.6	114
08...	1805	1.20	1.0	360	7.5	11.4	768	12.3	112
08...	1807	1.20	1.2	510	7.2	7.1	768	10.5	86
15...	1752	--	.10	258	8.4	12.8	749	13.6	131
15...	1754	--	.50	262	8.3	12.8	749	13.9	133
15...	1756	--	1.0	267	8.3	12.6	749	14.5	139
15...	1758	--	1.2	503	7.2	9.5	749	12.4	110
15...	1800	--	1.5	531	7.0	5.8	749	7.8	64
15...	1802	--	2.0	526	7.0	5.8	749	7.7	63

Date	Time	Medium code	Sample type	Sampler type, code (84164)	Sampling depth, meters (00098)	Depth to bot. from surface at samp locatn, meters (82903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Barometric pressure, mm Hg (00025)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)
SEP													
15...	1820	9	9	100	1.5	<2.00	392	7.5	12.5	749	.004	1.95	2.39

Date	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
SEP								
15...	2.58	.029	.069	E.004	<.006	-118	-14.08	3.8

613441149273800 -- LUCILE LAKE (STATION 2) AT WASILLA

Date	Time	Depth to bot. from surface at samp locatn, meters (82903)	Sampling depth, meters (00098)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, tot, wt 650-700 nm, in-situ ug/L (32234)
AUG										
15...	1328	5.60	.05	192	9.3	21.4	755	11.4	131	--
15...	1330	5.60	1.0	192	9.4	21.4	755	11.4	130	--
15...	1332	5.60	2.0	192	9.4	21.4	755	11.4	130	--
15...	1334	5.60	3.0	192	9.4	21.3	755	11.5	131	--
15...	1336	5.60	3.5	200	9.1	20.7	755	10.0	113	--
15...	1338	5.60	4.0	200	8.9	20.0	755	9.4	105	--
15...	1340	5.60	5.0	200	8.6	18.8	755	7.1	77	--
15...	1342	5.60	5.5	202	7.8	18.6	755	5.4	58	--
SEP										
08...	1900	5.80	.10	221	8.9	14.1	768	10.1	97	2.00
08...	1902	5.80	.50	221	9.0	14.2	768	10.6	102	1.50
08...	1904	5.80	1.0	222	8.9	14.0	768	10.6	102	1.50
08...	1906	5.80	1.5	227	8.8	13.6	768	10.5	100	1.90
08...	1908	5.80	2.0	228	8.9	13.5	768	10.7	102	1.60
08...	1910	5.80	2.5	228	8.9	13.5	768	11.3	108	2.20
08...	1912	5.80	3.0	229	8.9	13.5	768	11.0	105	2.30
08...	1914	5.80	3.5	229	8.8	13.4	768	10.8	103	2.10
08...	1916	5.80	4.0	225	8.8	13.3	768	10.5	100	1.90
08...	1918	5.80	4.5	222	8.8	13.2	768	10.2	96	2.20
08...	1920	5.80	5.0	220	8.9	13.1	768	10.4	98	1.90
08...	1922	5.80	5.5	219	8.9	13.1	768	10.4	98	4.00
08...	1924	5.80	5.8	221	7.9	13.1	768	4.5	43	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTH-CENTRAL ALASKA—Continued

613441149273800 -- LUCILE LAKE (STATION 2) AT WASILLA—Continued

Date	Time	Medium code	Sample type	Sampler type, code (84164)	Sampling depth, meters (00098)	Depth to top of samplng intrval meters (82047)	Depth to bottom of samplng intrval meters (82048)	Depth to bot. from surface at samp locatn, meters (82903)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, air, deg C (00020)	Trans-parency Secchi disc, meters (00078)	Trans-parency water unfltrd secchi disc feet (49701)
AUG													
15...	1355	9	9	100	--	1.0	3.0	5.60	212	9.0	18.0	4.57	15.0
15...	1410	9	9	100	4.5	--	--	5.60	213	8.4	18.0	4.57	15.0
SEP													
08...	1930	9	9	100	3.0	--	--	5.80	229	--	11.1	4.72	15.5

Date	Baro-metric pres-sure, mm Hg (00025)	Hard-ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnes-ium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potas-sium, water, fltrd, mg/L (00935)	Bicar-bonate, wat flt incrm. titr., field, mg/L (00453)	Carbon-ate, wat flt incrm. titr., field, mg/L (00452)	Alka-linity, wat flt inc tit field, mg/L as CaCO3 (39086)	Alka-linity, wat flt fxd end field, mg/L as CaCO3 (39036)	Sulfate water, fltrd, mg/L (00945)	Chlor-ide, water, fltrd, mg/L (00940)	Fluor-ide, water, fltrd, mg/L (00950)
AUG													
15...	755	76	19.4	6.68	8.61	1.02	--	--	54	--	4.1	26.7	<.1
15...	755	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
08...	768	--	--	--	--	--	78	14	69	71	--	--	--

Date	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of consti-tuents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitro-gen, wat flt by anal ysis, mg/L (62854)	Total nitro-gen, wat unf by anal ysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phos-phorus, water, unfltrd mg/L (00665)	Phos-phorus, water, fltrd, mg/L (00666)	Ortho-phos-phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan-ese, water, fltrd, ug/L (01056)
AUG													
15...	2.63	112	102	E.001	<.016	.62	.52	.031	.010	.007	<.006	10	2.3
15...	--	--	--	E.001	<.016	.82	.60	.051	.013	.009	<.006	--	--
SEP													
08...	--	--	--	.002	.021	.58	.64	.067	.030	.009	<.006	--	--

Date	Deu-terium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG			
15...	-108	-11.88	5.2
15...	-108	-11.93	5.1
SEP			
08...	-108	-11.96	4.1

613433149293500 -- LUCILE LAKE (NORTHWEST END) AT WASILLA

Date	Time	Depth to bot. from surface at samp locatn, meters (82903)	Sam-pling depth, meters (00098)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper-ature, water, deg C (00010)	Baro-metric pres-sure, mm Hg (00025)	Dis-solved oxygen, mg/L (00300)	Dis-solved oxygen, percent of sat-uration (00301)
SEP									
08...	1735	1.15	.10	211	9.2	14.5	768	11.8	115
08...	1745	1.15	.50	210	9.2	14.4	768	12.2	119
08...	1746	1.15	1.0	208	9.2	14.3	768	13.3	129
08...	1755	1.15	1.1	224	9.0	14.1	768	12.6	122

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTH-CENTRAL ALASKA—Continued

613736149250000 -- MEMORY LAKE NEAR WASILLA

Date	Time	Depth to bot. from surface at samp locatn, meters (82903)	Sampling depth, meters (00098)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
AUG									
11...	1712	6.00	1.0	77	8.0	21.3	759	9.0	102
11...	1714	6.00	2.0	77	7.9	21.0	759	9.2	104
11...	1716	6.00	3.0	76	8.0	19.8	759	9.4	103
11...	1718	6.00	4.0	76	7.7	18.8	759	8.7	94
11...	1720	6.00	5.0	76	7.3	18.2	759	7.0	75
11...	1722	6.00	5.5	86	6.7	17.8	759	3.7	39
11...	1724	6.00	6.0	112	6.7	17.3	759	1.0	10
SEP									
15...	1530	6.30	.10	74	7.3	13.4	748	8.7	85
15...	1532	6.30	1.0	74	7.3	13.4	748	8.6	84
15...	1534	6.30	1.5	74	7.3	13.4	748	8.6	84
15...	1536	6.30	2.0	74	7.3	13.4	748	8.6	84
15...	1538	6.30	2.5	74	7.3	13.4	748	8.6	84
15...	1540	6.30	3.0	74	7.3	13.4	748	8.6	84
15...	1542	6.30	4.0	74	7.3	13.4	748	8.6	84
15...	1544	6.30	5.0	74	7.4	13.4	748	8.6	84
15...	1546	6.30	6.0	74	7.4	13.4	748	8.6	84
15...	1548	6.30	6.1	74	7.3	13.4	748	8.4	82

Date	Time	Medium code	Sample type	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Type of blank solution, code (99100)	Type of blank sample, code (99102)	Sampling depth, meters (00098)	Depth to top of samplng intrval meters (82047)	Depth to bottom of samplng intrval meters (82048)	Depth to bot. from surface at samp locatn, meters (82903)	Specif. conduc-tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)
AUG													
11...	1740	9	9	100	10	80.00	100.00	--	1.0	3.0	6.00	76	7.9
11...	1750	9	9	100	--	--	--	5.0	--	--	6.00	--	--
SEP													
15...	1610	9	9	100	--	--	--	3.0	--	--	6.30	73	7.5

Date	Temperature, air, deg C (00020)	Transparency Secchi disc, meters (00078)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)
AUG													
11...	22.5	5.94	19.0	759	31	8.48	2.48	2.16	.92	38	32	E.1	2.86
11...	22.5	5.94	19.0	759	--	--	--	--	--	--	--	--	--
SEP													
15...	10.5	4.69	15.4	--	--	--	--	--	--	--	--	--	--

Date	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)
AUG													
11...	<.1	.34	56	E.001	<.016	.73	.32	E.006	<.004	.005	<.006	19	.6
11...	--	--	--	E.001	<.016	.70	.32	E.006	<.004	.006	<.006	--	--
SEP													
15...	--	--	--	E.001	E.012	.83	.66	.095	.010	E.002	<.006	--	--

Date	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG			
11...	-91.10	-8.36	7.3
11...	-91.60	-8.41	7.0
SEP			
15...	-92.40	-8.57	9.2

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTH-CENTRAL ALASKA—Continued

613623149400100 -- SEYMOUR LAKE NEAR HOUSTON

Date	Time	Depth to bot. from surface at samp locatn, meters (82903)	Sampling depth, meters (00098)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, tot, wt 650-700 nm, in-situ ug/L (32234)
AUG										
15...	1048	5.10	1.0	145	8.2	21.4	755	8.9	101	--
15...	1050	5.10	2.0	145	8.2	21.5	755	8.7	100	--
15...	1052	5.10	3.0	145	8.2	21.4	755	8.7	99	--
15...	1054	5.10	4.0	143	7.8	19.8	755	8.0	89	--
15...	1056	5.10	5.0	145	7.2	19.1	755	3.1	34	--
15...	1058	5.10	5.1	146	7.2	19.1	755	3.0	33	--
SEP										
13...	1450	5.50	.20	147	8.1	14.0	757	7.8	76	1.10
13...	1452	5.50	.50	147	8.1	14.0	757	7.8	76	1.30
13...	1454	5.50	1.0	147	8.1	13.9	757	7.8	76	1.90
13...	1456	5.50	1.5	147	8.1	13.9	757	7.8	76	1.40
13...	1458	5.50	2.5	146	8.1	13.8	757	7.8	76	1.40
13...	1500	5.50	2.5	146	8.1	13.7	757	7.7	75	1.70
13...	1502	5.50	3.0	146	8.1	13.7	757	7.6	74	1.40
13...	1504	5.50	4.0	146	8.1	13.6	757	7.6	74	1.90
13...	1506	5.50	4.5	146	8.1	13.6	757	7.6	74	2.00
13...	1508	5.50	5.0	146	8.1	13.6	757	7.6	74	1.80
13...	1510	5.50	5.4	145	7.7	13.7	757	1.7	16	--

Date	Time	Medium code	Sample type	Sampler type, code (84164)	Sampling depth, meters (00098)	Depth to top of samplng intrval meters (82047)	Depth to bottom of samplng intrval meters (82048)	Depth to bot. from surface at samp locatn, meters (82903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency Secchi disc, meters (00078)	Transparency water unfltrd secchi disc feet (49701)
AUG													
15...	1130	9	9	100	--	1.0	3.0	5.10	--	8.1	20.2	2.13	7.0
15...	1140	9	9	100	4.0	--	--	5.10	--	8.0	20.2	2.13	7.0
SEP													
13...	1520	9	9	100	3.0	--	--	5.50	146	8.1	18.3	5.18	17.0

Date	Barometric pressure, mm Hg (00025)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)
AUG													
15...	755	69	22.3	3.22	2.46	.91	78	64	.9	3.55	<.1	2.77	73
15...	755	--	--	--	--	--	--	--	--	--	--	--	--
SEP													
13...	757	--	--	--	--	--	--	--	--	--	--	--	--

Date	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)
AUG													
15...	75	E.001	<.016	.52	.41	E.005	.007	E.003	<.006	13	.9	-96.10	-9.38
15...	--	<.002	<.016	.53	.41	<.010	.014	E.003	<.006	--	--	-96.60	-9.44
SEP													
13...	--	E.001	.016	.60	.40	.054	.007	E.004	<.006	--	--	-95.40	-9.57

Date	Organic carbon, water, fltrd, mg/L (00681)
AUG	
15...	4.8
15...	4.4
SEP	
13...	3.7

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTH-CENTRAL ALASKA—Continued

613215149522600 -- BIG LAKE SOUTH OF LONG ISLAND NEAR WASILLA

Date	Time	Depth to bot. from surface at samp locatn, meters (82903)	Sampling depth, meters (00098)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, tot, wt 650-700 nm, in-situ ug/L (32234)
AUG										
02...	1200	15.5	.50	143	8.1	18.8	761	7.7	83	--
02...	1202	15.5	1.0	143	8.0	18.8	761	8.8	95	--
02...	1204	15.5	2.0	143	8.0	18.4	761	8.6	92	--
02...	1206	15.5	3.0	143	8.0	18.3	761	8.5	90	--
02...	1208	15.5	4.0	143	8.0	18.3	761	8.4	89	--
02...	1210	15.5	5.0	145	7.9	17.9	761	8.4	89	--
02...	1212	15.5	6.0	149	7.5	14.5	761	9.7	95	--
02...	1214	15.5	7.0	150	7.4	12.1	761	9.7	90	--
02...	1216	15.5	8.0	152	7.3	10.1	761	9.1	81	--
02...	1218	15.5	9.0	152	7.2	9.3	761	8.2	71	--
02...	1220	15.5	10.0	156	7.0	7.8	761	4.7	40	--
02...	1222	15.5	11.0	158	6.9	7.0	761	2.6	21	--
02...	1224	15.5	12.0	160	6.9	6.4	761	1.4	11	--
02...	1226	15.5	13.0	163	6.9	6.1	761	1.1	9	--
02...	1228	15.5	14.0	166	6.9	5.7	761	.7	6	--
02...	1230	15.5	15.0	179	7.0	5.5	761	.7	6	--
02...	1232	15.5	15.5	--	7.2	5.4	761	.6	--	--
SEP										
08...	1250	15.5	.20	145	8.0	15.0	768	9.5	93	.90
08...	1252	15.5	.50	145	8.0	14.8	768	9.4	93	1.00
08...	1254	15.5	1.0	145	8.0	14.7	768	9.4	92	1.60
08...	1256	15.5	1.5	144	8.0	14.6	768	9.4	92	1.50
08...	1258	15.5	2.0	145	8.0	14.6	768	9.4	91	1.50
08...	1300	15.5	3.0	145	8.0	14.5	768	9.3	91	1.60
08...	1302	15.5	4.0	145	8.0	14.5	768	9.4	91	2.20
08...	1304	15.5	5.0	145	8.0	14.5	768	9.3	91	1.50
08...	1306	15.5	6.0	145	8.0	14.4	768	9.3	90	1.80
08...	1308	15.5	7.0	146	7.8	14.2	768	8.9	86	1.80
08...	1310	15.5	8.0	154	7.2	11.7	768	7.2	66	1.40
08...	1312	15.5	9.0	154	7.1	9.8	768	5.3	47	1.40
08...	1314	15.5	10.0	156	7.0	8.6	768	2.9	24	1.80
08...	1316	15.5	11.0	159	7.0	7.7	768	.6	5	1.60
08...	1318	15.5	12.0	164	7.0	6.6	768	.1	1	2.60
08...	1320	15.5	13.0	160	7.1	6.2	768	.1	.0	5.40
08...	1322	15.5	14.0	174	7.1	5.8	768	.1	.0	7.80
08...	1324	15.5	15.0	205	7.4	5.4	768	.2	1	--
08...	1326	15.5	15.5	--	7.7	5.5	768	.1	--	--

Date	Time	Medium code	Sample type	Sampler type, code (84164)	Type of sample related QA data, code (99111)	Sampling depth, meters (00098)	Depth to top of samplng intrval meters (82047)	Depth to bottom of samplng intrval meters (82048)	Depth to bot. from surface at samp locatn, meters (82903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency Secchi disc, meters (00078)
AUG													
02...	1310	9	9	100	--	15.0	--	--	15.5	167	--	18.0	5.30
02...	1320	9	9	100	--	--	1.0	5.0	15.5	143	8.0	18.0	5.30
SEP													
08...	1400	9	7	100	30	--	1.0	6.0	15.5	144	8.1	11.5	6.16
08...	1420	9	9	100	--	14.0	--	--	15.5	174	7.2	11.5	6.16

Date	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)
AUG													
02...	17.5	761	--	--	--	--	--	--	--	--	--	--	--
02...	17.5	761	67	21.2	3.50	2.75	.74	76	63	1.3	4.74	<.1	6.48
SEP													
08...	20.2	768	--	--	--	--	--	--	--	--	--	--	--
08...	20.2	768	--	--	--	--	--	--	--	--	--	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

SOUTH-CENTRAL ALASKA—Continued

613215149522600 -- BIG LAKE SOUTH OF LONG ISLAND NEAR WASILLA—Continued

Date	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of consti- tuents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitro- gen, wat flt by anal ysis, mg/L (62854)	Total nitro- gen, wat unf by anal ysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phos- phorus, water, unfltrd mg/L (00665)	Phos- phorus, water, fltrd, mg/L (00666)	Ortho- phos- phate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Mangan- ese, water, fltrd, ug/L (01056)	Deu- terium/ Protium ratio, water, unfltrd per mil (82082)
AUG													
02...	--	--	E.001	<.016	.56	.34	.145	.043	.017	E.005	--	--	-116
02...	87	78	<.002	<.016	.32	.20	<.010	.007	E.002	<.006	9	E.4	-114
SEP													
08...	--	--	<.002	<.016	.36	.20	<.010	.008	E.004	<.006	--	--	--
08...	--	--	E.001	<.016	.63	.51	.297	.081	.052	.023	--	--	-116

Date	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG		
02...	-13.72	4.0
02...	-12.85	3.6
SEP		
08...	--	3.9
08...	-13.72	4.2

SOUTHWEST ALASKA

602943154002001 -- LACHBUNA LAKE NEAR PORT ALSWORTH

Date	Time	Depth to bot. from surface at samp locatn, meters (82903)	Sam- pling depth, meters (00098)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temper- ature, water, deg C (00010)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)
OCT									
06...	1130	38.0	.00	65	6.6	6.9	713	10.6	93
06...	1132	38.0	2.5	64	6.8	6.9	713	10.2	90
06...	1134	38.0	5.0	64	6.8	6.9	713	10.2	90
06...	1136	38.0	7.5	64	6.8	6.9	713	10.2	90
06...	1138	38.0	10.0	64	6.8	6.9	713	10.1	89
06...	1140	38.0	12.5	64	6.9	6.9	713	10.1	89
06...	1142	38.0	15.0	64	6.9	6.9	713	10.1	89
06...	1144	38.0	17.5	63	6.9	6.9	713	10.1	89
06...	1146	38.0	20.0	64	6.9	6.9	713	10.0	88
06...	1148	38.0	22.5	64	6.9	6.9	713	10.0	88
06...	1150	38.0	25.0	64	6.9	6.9	713	10.0	88
06...	1152	38.0	27.7	65	7.0	6.8	713	9.9	87
06...	1154	38.0	30.0	65	7.0	6.8	713	9.8	86
06...	1156	38.0	35.0	68	7.0	6.7	713	9.5	83
06...	1158	38.0	38.0	69	7.0	6.7	713	9.3	81

Date	Time	Medium code	Sample type	Sam- pling method, code (82398)	Sampler type, code (84164)	Sam- pling depth, meters (00098)	Specif. conduc- tance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Baro- metric pres- sure, mm Hg (00025)	Dis- solved oxygen, mg/L (00300)	Dis- solved oxygen, percent of sat- uration (00301)	Hard- ness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
OCT													
06...	1200	9	9	50	100	10.0	64	6.8	713	10.1	83	27	9.05
FEB													
24...	1645	9	9	--	--	--	--	--	--	--	--	33	11.3

SOUTHWEST ALASKA—Continued

602943154002001 -- LACHBUNA LAKE NEAR PORT ALSWORTH—Continued

Date	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)
OCT													
06...	.971	2.17	.26	27	.0	21	8.7	.35	.2	5.89	48	41	E.001
FEB													
24...	1.15	1.67	.46	--	--	--	10.4	.41	.2	6.30	47	47	.002

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Organic carbon, water, fltrd, mg/L (00681)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Pheophytin a, phytoplankton, ug/L (62360)
OCT												
06...	.047	<.010	<.10	E.06	<.004	<.004	<.006	29	2.6	E.3	.3	.2
FEB												
24...	.066	<.010	<.10	<.10	<.004	<.004	<.006	E3	.8	.4	--	--

601758154193201 -- KIJIK LAKE NEAR PORT ALSWORTH

Date	Time	Sampling depth, meters (00098)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Dissolved oxygen, mg/L (00300)
OCT						
06...	1530	.00	59	6.7	8.5	10.7

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	Sampling depth, meters (00098)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)
OCT													
06...	1600	9	9	50	100	10.0	25	8.54	.872	2.15	.36	.0	19
MAR													
01...	1600	9	9	--	--	--	26	8.85	.886	1.45	.44	--	--

Date	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Ammonia water, fltrd, mg/L as N (00608)	Ammonia + org-N, water, unfltrd mg/L as N (00625)	Ammonia + org-N, water, fltrd, mg/L as N (00623)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)
OCT													
06...	7.4	.49	.1	6.50	43	40	.003	.409	.013	E.06	E.07	E.003	<.004
MAR													
01...	7.6	.52	.1	6.73	38	42	.002	.483	<.010	E.06	<.10	E.003	<.004

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Organic carbon, water, fltrd, mg/L (00681)	Chlorophyll a phytoplankton, fluoro, ug/L (70953)	Pheophytin a, phytoplankton, ug/L (62360)
OCT						
06...	<.006	E5	E.4	.6	.8	.5
MAR						
01...	<.006	<6	<.6	.6	--	--

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

ARCTIC ALASKA

704152152391400 -- UNNAMED LAKE 4 MILE WEST OF VABM JOHN NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, total, phytoplnktn, uncorr, ug/L (32234)
AUG										
24...	1322	2.00	1.50	307	7.8	5.8	759	12.0	96	1.90
24...	1324	2.00	.50	307	7.6	5.8	759	12.1	97	2.30

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Nitrite water, fltrd, mg/L as N (00613)
AUG													
24...	1320	9	9	50	100	2.00	303	7.8	2.0	759	27.4	50.8	.002

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG							
24...	<.016	.19	.22	<.010	.016	.007	E.003

704254152301400 -- UNNAMED LAKE 2 MILE NORTH OF VABM JOHN NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, total, phytoplnktn, uncorr, ug/L (32234)
AUG									
22...	1828	2.90	2.50	31100	6.2	766	10.3	94	2.80
22...	1829	2.90	1.50	30700	6.4	766	10.3	94	2.80
22...	1830	2.90	1.00	30600	6.6	766	10.2	94	2.40

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Nitrite water, fltrd, mg/L as N (00613)
AUG													
22...	1850	9	9	50	100	2.90	30000	7.8	2.5	766	5650	9920	E.001

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG							
22...	<.016	.19	.27	.061	.025	.006	E.003

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

ARCTIC ALASKA—Continued

704318153260200 -- UNNAMED LAKE 6.5 MILE SOUTH OF VABM QUAD NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, total, phytoplnktn, uncorr, ug/L (32234)
AUG										
25...	1359	6.80	5.50	293	7.4	4.6	764	11.5	89	2.00
25...	1400	6.80	4.50	292	7.5	4.8	764	11.3	88	2.60
25...	1401	6.80	3.50	292	7.5	4.8	764	11.3	88	2.90
25...	1402	6.80	2.50	292	7.5	4.8	764	11.2	87	2.40
25...	1403	6.80	1.50	292	7.6	4.9	764	11.3	88	2.40
25...	1404	6.80	.50	292	7.6	4.9	764	11.3	88	2.60

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)
AUG													
25...	1408	9	9	50	100	6.80	299	7.6	1.5	2.7	764	22.5	44.2

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG								
25...	<.002	<.016	.18	.28	E.007	.026	E.002	<.006

704330153004900 -- UNNAMED LAKE 9.5 MILE SOUTHEAST OF VABM FLORA NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
AUG									
24...	1406	2.50	2.00	186	7.8	4.8	758	12.4	97
24...	1407	2.50	1.00	186	7.7	4.8	758	12.4	97

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)
AUG													
24...	1420	9	9	55	100	2.50	191	7.7	2.5	.10	758	13.6	23.3

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG								
24...	E.001	.059	.37	1.60	E.006	.35	.005	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

ARCTIC ALASKA—Continued

704338153183300 -- UNNAMED LAKE 8 MILE SOUTH OF VABM FLORA NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, total, phytoplnktn, uncorr, ug/L (32234)
AUG										
25...	1323	7.20	6.50	271	6.8	5.8	764	10.8	86	5.40
25...	1324	7.20	5.50	271	6.9	5.8	764	10.6	85	4.70
25...	1325	7.20	4.50	271	6.9	5.8	764	10.6	85	5.40
25...	1326	7.20	3.50	271	6.9	5.8	764	10.6	85	5.00
25...	1327	7.20	2.50	271	6.9	5.8	764	10.6	85	4.80
25...	1328	7.20	1.50	271	7.0	5.8	764	10.6	85	5.30
25...	1329	7.20	.50	271	7.0	5.8	764	10.7	85	5.00

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)
AUG													
25...	1331	9	9	55	100	7.20	279	7.5	1.5	4.8	764	26.8	54.1

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG								
25...	E.001	<.016	.39	.47	.015	.018	.005	<.006

704437153170700 -- UNNAMED LAKE 7 MILE SOUTH OF VABM FLORA NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, total, phytoplnktn, uncorr, ug/L (32234)
AUG									
25...	1245	7.10	6.50	160	6.1	764	--	--	4.60
25...	1247	7.10	5.50	160	6.0	764	10.2	82	4.40
25...	1248	7.10	4.50	159	6.0	764	10.2	82	4.60
25...	1249	7.10	3.50	159	6.0	764	10.3	83	4.70
25...	1250	7.10	2.50	159	6.0	764	10.2	82	4.60
25...	1251	7.10	1.50	159	6.0	764	10.3	83	4.40
25...	1252	7.10	.50	159	6.0	764	10.4	83	4.50

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)
AUG													
25...	1256	9	9	55	100	7.10	161	7.3	1.5	3.0	764	15.5	29.0

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG								
25...	<.002	<.016	.41	.61	.029	.033	.006	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

ARCTIC ALASKA—Continued

704543153204300 -- UNNAMED LAKE 6.5 MILE SOUTH OF VABM FLORA NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, total, phytoplnktn, uncorr, ug/L (32234)
AUG										
25...	1429	7.20	6.50	214	7.7	6.1	764	11.1	89	3.00
25...	1430	7.20	5.50	214	7.7	6.1	764	10.9	88	2.50
25...	1431	7.20	4.50	214	7.7	6.1	764	10.8	87	2.40
25...	1432	7.20	3.50	214	7.7	6.1	764	10.9	88	2.10
25...	1433	7.20	2.50	214	7.7	6.1	764	10.8	87	2.00
25...	1434	7.20	1.50	214	7.7	6.1	764	10.8	87	2.00
25...	1435	7.20	.50	215	7.7	6.1	764	10.8	87	2.30

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)
AUG													
25...	1439	9	9	55	100	7.20	216	7.6	2.0	6.4	764	17.4	33.1

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by anal ysis, mg/L (62854)	Total nitrogen, wat unf by anal ysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG								
25...	<.002	<.016	.32	.30	<.010	.013	E.003	<.006

704553152303500 -- UNNAMED LAKE 1.5 MILE EAST OF VABM BILLY NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, total, phytoplnktn, uncorr, ug/L (32234)
AUG										
25...	1517	2.30	1.50	24100	7.3	4.0	764	9.4	79	5.00
25...	1518	2.30	.50	24100	7.4	4.0	--	--	--	4.60

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)
AUG													
25...	1526	9	9	50	100	2.30	24800	7.5	2.0	1.1	764	4510	8370

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by anal ysis, mg/L (62854)	Total nitrogen, wat unf by anal ysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG								
25...	<.002	<.016	.29	.40	.037	.040	.004	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

ARCTIC ALASKA—Continued

704601153003600 -- UNNAMED LAKE 7 MILE SOUTHEAST OF VABM MARCH NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
AUG									
24...	1511	2.10	1.50	180	7.7	4.7	759	12.4	97
24...	1512	2.10	.50	180	7.7	4.7	759	12.5	98

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency water unfltrd secchi disc feet (49701)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Nitrite water, fltrd, mg/L as N (00613)
AUG													
24...	1510	9	9	50	100	2.10	178	7.5	3.0	.10	12.6	23.1	E.001

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG							
24...	.094	.45	1.39	E.005	.29	.006	<.006

704625152462200 -- UNNAMED LAKE 7.5 MILE SOUTHEAST OF VABM APRIL NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, total, phytoplnktn, uncorr, ug/L (32234)
AUG										
24...	1723	6.50	5.50	384	7.8	6.0	759	12.3	99	1.70
24...	1724	6.50	4.50	384	7.8	6.0	759	12.2	98	2.20
24...	1725	6.50	3.50	384	7.8	6.0	759	12.2	98	1.90
24...	1726	6.50	2.50	384	7.8	6.0	759	12.2	98	1.20
24...	1727	6.50	1.50	384	7.8	6.0	759	12.1	98	1.50
24...	1728	6.50	.50	384	7.8	6.0	759	12.2	98	2.00

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Transparency water unfltrd secchi disc feet (49701)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)
AUG													
24...	1730	9	9	55	100	6.50	384	7.8	6.1	39.8	87.2	E.001	<.016

Date	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG						
24...	.16	.15	<.010	.006	E.004	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

ARCTIC ALASKA—Continued

704705152215100 -- UNNAMED LAKE 1.5 MILE WEST OF VABM ELIE NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, total, phytoplnktn, uncorr, ug/L (32234)
AUG									
22...	1729	4.00	3.50	650	5.6	766	11.6	92	3.90
22...	1730	4.00	2.50	650	5.6	766	11.5	91	4.00
22...	1731	4.00	1.50	650	5.6	766	11.5	91	3.50
22...	1732	4.00	1.00	650	5.6	766	11.5	91	3.60

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)
AUG													
22...	1750	9	9	55	100	4.00	650	7.9	6.5	.85	766	58.7	160

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG								
22...	E.001	<.016	.36	.43	E.008	.038	.005	<.006

704727153091400 -- ISLAND LAKE 5.5 MILE SOUTHWEST OF VABM MARCH NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, total, phytoplnktn, uncorr, ug/L (32234)
AUG										
24...	1804	5.80	4.50	156	8.0	5.7	759	12.5	100	3.40
24...	1805	5.80	3.50	156	7.9	5.7	759	12.3	98	4.20
24...	1806	5.80	2.50	156	7.9	5.7	759	12.2	98	3.60
24...	1807	5.80	1.50	156	7.8	5.7	759	12.2	98	3.90
24...	1808	5.80	.50	156	7.8	5.7	759	12.1	97	3.80

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Transparency water unfltrd secchi disc feet (49701)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)
AUG													
24...	1820	9	9	55	100	5.80	151	7.8	1.2	13.1	27.4	.002	<.016

Date	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG						
24...	.23	.30	E.007	.039	.008	.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

ARCTIC ALASKA—Continued

704816152171700 -- UNNAMED LAKE 1.5 MILE NORTH OF VABM ELIE NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Chlorophyll, total, phytoplnktn, uncorr, ug/L (32234)
AUG									
22...	1617	2.10	2.00	1000	5.4	767	11.9	94	10.2
22...	1618	2.10	1.00	1000	5.3	767	11.8	93	10.3

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Nitrite water, fltrd, mg/L as N (00613)
AUG													
22...	1700	9	9	55	100	2.10	1000	8.1	.35	767	103	212	.002

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG							
22...	.039	1.05	1.49	.014	.131	.012	<.006

704819152572000 -- UNNAMED LAKE 3.5 MILE SOUTH OF VABM APRIL NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
AUG									
24...	1547	2.50	1.50	183	7.7	4.7	758	12.9	101
24...	1548	2.50	.50	183	7.6	4.7	758	12.7	99

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)	Nitrite water, fltrd, mg/L as N (00613)
AUG													
24...	1550	9	9	50	100	2.50	179	7.5	.15	759	13.4	26.6	E.001

Date	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG							
24...	.071	.40	1.46	E.005	.31	.006	<.006

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

ARCTIC ALASKA—Continued

704918152265600 -- UNNAMED LAKE 3 MILE SOUTH OF VABM SAMUEL NEAR LONELY

Date	Time	DepthTo bottom at sample location, feet (81903)	Sampling depth, feet (00003)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)
AUG 24...	1629	1.30	.50	25000	6.8	4.2	759	11.2	95

Date	Time	Medium code	Sample type	Sampling method, code (82398)	Sampler type, code (84164)	DepthTo bottom at sample location, feet (81903)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Temperature, air, deg C (00020)	Transparency water unfltrd secchi disc feet (49701)	Barometric pressure, mm Hg (00025)	Sodium, water, fltrd, mg/L (00930)	Chloride, water, fltrd, mg/L (00940)
AUG 24...	1640	9	9	50	100	1.30	25200	7.7	2.0	.20	759	4170	8290

Date	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)
AUG 24...	E.001	<.016	.62	2.23	.065	.22	.009	E.003

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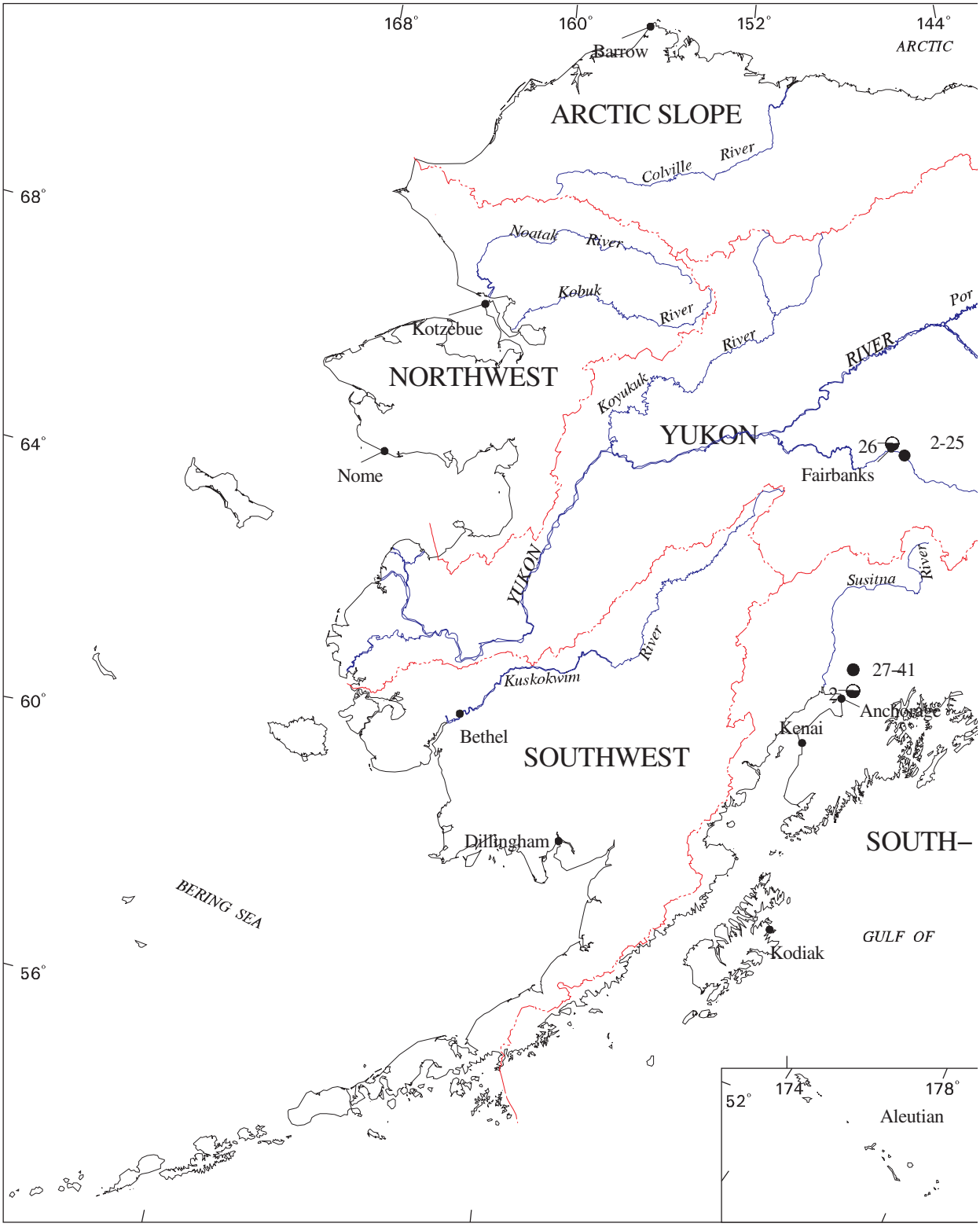
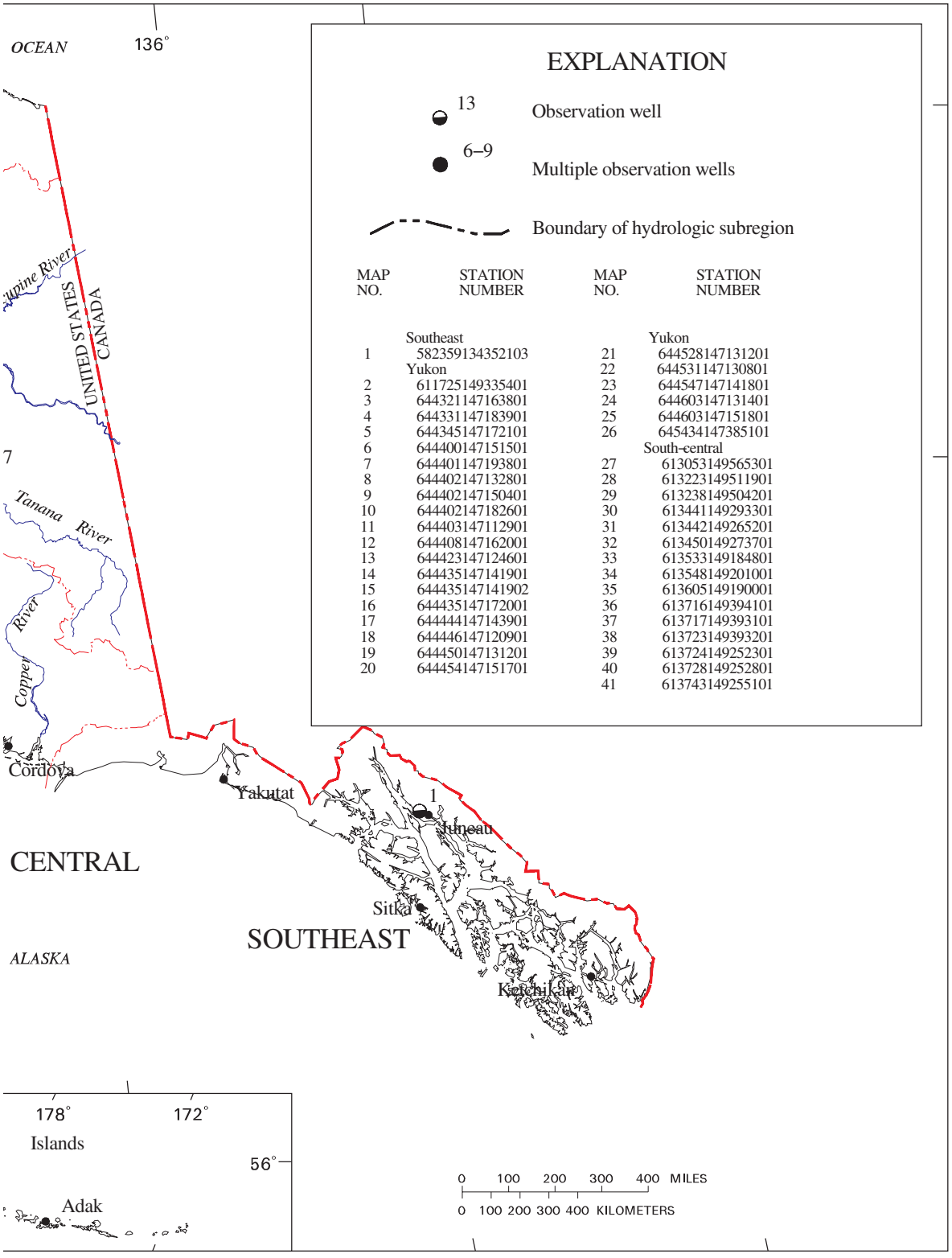


Map 4. Locations of ground-water wells


OCEAN
136°
EXPLANATION
13
Observation well
6–9
Multiple observation wells
Boundary of hydrologic subregion
MAP NO.
STATION NUMBER
MAP NO.
STATION NUMBER
Southeast
1 582359134352103
Yukon
2 611725149335401
3 644321147163801
4 644331147183901
5 644345147172101
6 644400147151501
7 644401147193801
8 644402147132801
9 644402147150401
10 644402147182601
11 644403147112901
12 644408147162001
13 644423147124601
14 644435147141901
15 644435147141902
16 644435147172001
17 644444147143901
18 644446147120901
19 644450147131201
20 644454147151701
Yukon
21 644528147131201
22 644531147130801
23 644547147141801
24 644603147131401
25 644603147151801
26 645434147385101
South-central
27 613053149565301
28 613223149511901
29 613238149504201
30 613441149293301
31 613442149265201
32 613450149273701
33 613533149184801
34 613548149201001
35 613605149190001
36 613716149394101
37 613717149393101
38 613723149393201
39 613724149252301
40 613728149252801
41 613743149255101
UNITED STATES
CANADA
Tanana River
Copper River
Cordova
Yakutat
Juneau
Sitka
Ketchikan
CENTRAL
SOUTHEAST
ALASKA
178°
172°
Islands
56°
Adak
0 100 200 300 400 MILES
0 100 200 300 400 KILOMETERS

SOUTHEAST ALASKA

JUNEAU

582359134352103. Local number, CD04006618CBCA3019 85177.

LOCATION.--Lat 58°23'59", Long 134°35'21", SW¼ NW¼ SW¼ sec.18, T. 40 S., R. 66 E. (Juneau B-2 NW quad), Hydrologic Unit 19010301, Well is located in steel gage house by sewage treatment plant on Riverbend Road, 1/4 mile off of the Mendenhall Loop Road, Juneau. Owner: Harlan Olsen.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. PVC casing, depth 40 ft, screen opening from 30 ft to 40 ft.

INSTRUMENTATION.--Intermittent measurements with chalked steel tape by USGS, November 1983 to current year; continuous strip-chart recorder, November 1983 to August 1984; Digital recorder, August 1984 to April 1997; submersible pressure transducer/electric data logger, August 1997 to September 1998; electronic data logger and encoder, September 1998 to April 2005; submersible pressure transducer/electric data logger, April 2005 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.--The record occurring from July 29 to September 15, 2005 is poor. The record for the remainder of the 2005 water year is good. Well drilled November 3, 1983 by USGS, designated as Mendenhall well. Well sampled for water quality, May 17, 1984.

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 measured, 13.54 ft below land-surface datum, February 2, 1997.

EXTREMES FOR CURRENT YEAR.--Highest water level recorded, 5.71 ft below land-surface datum, September 29; lowest, 11.41 ft below land-surface datum, January 29 and 30.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.40	7.83	7.40	8.06	10.70	8.50	9.24	9.57	10.87	10.98	9.95	7.65
2	7.39	7.89	6.90	8.37	10.63	8.31	9.27	9.69	10.92	10.88	10.12	7.74
3	7.49	7.50	6.90	8.62	10.63	8.13	9.34	9.77	10.92	10.90	10.16	8.01
4	7.63	7.46	7.00	8.86	10.66	7.90	9.47	9.83	10.93	10.86	9.93	8.28
5	7.56	7.51	7.23	9.07	10.72	7.87	9.50	9.89	10.86	10.82	9.37	8.30
6	7.59	7.77	7.47	9.25	10.78	7.85	9.57	10.05	10.87	10.84	9.20	7.35
7	7.72	7.87	7.66	9.41	10.79	7.87	9.57	10.13	10.94	10.87	9.27	6.87
8	7.72	8.02	7.86	9.48	10.63	7.80	9.66	10.23	10.94	10.87	9.42	6.72
9	7.66	8.35	8.19	9.72	10.05	7.56	9.80	10.26	10.95	10.90	9.50	6.82
10	7.52	8.56	8.55	9.84	9.78	7.17	9.78	10.28	10.97	10.93	9.52	7.13
11	7.54	8.70	8.72	9.97	9.47	7.10	9.78	10.32	11.06	10.98	9.60	7.36
12	7.49	8.85	8.31	10.21	9.47	7.05	9.98	10.35	11.12	11.02	9.64	7.56
13	7.43	9.02	8.32	10.28	9.65	7.04	10.01	10.35	11.16	11.05	9.68	7.60
14	7.45	9.08	8.40	10.38	9.84	7.05	10.07	10.33	11.17	11.02	9.73	7.65
15	7.45	9.22	8.45	10.45	9.93	7.13	10.06	10.28	11.19	11.03	9.82	7.85
16	7.46	9.17	7.98	10.52	9.99	7.34	10.13	10.30	11.25	11.02	9.97	8.07
17	7.63	9.17	7.70	10.55	10.07	7.57	10.27	10.36	11.24	10.83	9.93	7.49
18	7.82	9.18	7.13	10.75	10.07	7.84	10.38	10.37	11.17	10.63	9.81	7.41
19	8.26	8.89	7.12	10.81	10.17	8.05	9.76	10.43	11.16	10.62	9.68	6.89
20	8.47	7.13	7.07	10.96	10.23	8.16	9.41	10.53	11.16	10.66	9.56	6.85
21	8.68	6.98	7.16	11.01	10.35	8.43	8.99	10.62	11.13	10.71	9.55	6.78
22	8.77	7.01	7.04	11.09	10.43	8.74	8.89	10.64	11.13	10.67	9.31	7.06
23	9.09	7.10	6.53	11.10	9.59	8.94	8.91	10.72	11.20	10.68	9.30	6.94
24	9.20	7.15	6.49	11.12	---	9.13	9.05	10.81	11.24	10.74	9.27	6.76
25	9.28	7.15	6.52	11.24	---	9.26	9.18	10.85	11.22	10.77	8.93	6.78
26	9.47	7.13	6.77	11.23	---	9.34	9.29	10.78	11.20	10.66	8.56	6.90
27	9.19	7.17	6.99	11.23	9.39	9.42	9.30	10.77	11.17	10.13	8.56	7.16
28	8.54	7.17	7.12	11.28	9.03	9.46	9.31	10.77	11.06	9.75	8.72	6.97
29	7.78	7.25	7.39	11.35	---	9.46	9.37	10.82	10.98	9.66	8.93	5.71
30	7.77	7.47	7.59	11.18	---	9.56	9.43	10.85	10.97	9.70	8.22	5.72
31	7.81	---	7.82	10.97	---	9.30	---	10.84	---	9.86	7.75	---

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-7SW 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, August 21, 1986.

EXTREMES FOR CURRENT YEAR.--Highest water level recorded, 107.95 ft below land-surface datum, January 30; lowest, 110.56 ft below land-surface datum, October 1.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET) WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	110.53	109.55	109.03	108.99	108.04	108.74	109.42	109.89	109.63	109.48	109.84	110.16
2	110.50	109.37	109.06	108.97	108.10	108.75	109.43	109.88	109.61	109.49	109.85	110.16
3	110.52	109.37	109.17	108.95	108.13	108.79	109.44	109.88	109.60	109.49	109.86	110.16
4	110.52	109.51	109.10	108.98	108.17	108.77	109.47	109.90	109.59	109.50	109.89	110.15
5	110.50	109.49	109.10	109.02	108.17	108.84	109.46	109.90	109.59	109.50	109.92	110.16
6	110.52	109.42	109.09	108.97	108.16	108.82	109.50	109.90	109.58	109.52	109.94	110.16
7	110.49	109.36	109.08	108.92	108.14	108.85	109.52	109.90	109.56	109.52	109.95	110.19
8	110.44	109.39	109.09	108.92	108.12	108.84	109.54	109.90	109.56	109.53	109.97	110.18
9	110.42	109.35	109.12	108.91	108.14	108.91	109.55	109.89	109.55	109.53	109.99	110.13
10	110.42	109.32	109.14	108.90	108.17	108.87	109.57	109.89	109.55	109.55	110.01	110.18
11	110.35	109.32	109.12	108.89	108.31	108.99	109.60	109.88	109.54	109.56	110.02	110.16
12	110.30	109.29	109.09	108.87	108.32	109.02	109.62	109.86	109.54	109.56	110.04	110.17
13	110.30	109.28	109.10	108.83	108.34	109.06	109.63	109.84	109.52	109.57	110.05	110.18
14	110.27	109.24	109.14	108.79	108.35	109.06	109.65	109.84	109.51	109.58	110.06	110.18
15	110.19	109.26	109.07	108.73	108.41	109.06	109.66	109.83	109.52	109.59	110.08	110.16
16	110.15	109.27	109.07	108.66	108.45	109.10	109.68	109.82	109.52	109.60	110.09	110.15
17	110.13	109.23	109.02	108.63	108.47	109.14	109.70	109.81	109.50	109.62	110.08	110.15
18	110.06	109.21	109.02	108.53	108.50	109.18	109.71	109.78	109.48	109.63	110.09	110.14
19	110.04	109.18	109.11	108.48	108.52	109.17	109.73	109.79	109.49	109.64	110.11	110.15
20	109.99	109.21	109.12	108.41	108.54	109.16	109.76	109.78	109.50	109.65	110.11	110.13
21	109.98	109.21	109.02	108.28	108.55	109.22	109.74	109.77	109.49	109.67	110.10	110.10
22	109.92	109.18	108.96	108.27	108.55	109.22	109.77	109.75	109.49	109.68	110.11	110.04
23	109.84	109.12	109.04	108.20	108.63	109.29	109.79	109.75	109.49	109.70	110.08	109.99
24	109.86	109.12	109.09	108.18	108.61	109.28	109.80	109.75	109.48	109.71	110.13	110.03
25	109.78	109.19	109.06	108.13	108.66	109.29	109.82	109.69	109.48	109.71	110.13	110.04
26	109.75	109.19	109.00	108.07	108.66	109.29	109.84	109.67	109.48	109.73	110.14	109.98
27	109.71	109.12	108.99	108.05	108.71	109.31	109.84	109.68	109.48	109.74	110.14	109.91
28	109.62	109.15	109.04	108.05	108.71	109.33	109.84	109.66	109.48	109.77	110.12	109.97
29	109.64	109.15	109.05	108.05	---	109.37	109.87	109.65	109.49	109.79	110.13	109.95
30	109.64	109.08	109.03	107.95	---	109.35	109.87	109.65	109.49	109.79	110.15	109.92
31	109.58	---	109.02	108.00	---	109.35	---	109.64	---	109.81	110.16	---

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH

613053149565301. Local number, SB01700435DCDC1002.

LOCATION.--Lat 61°30′49″, Long 149°56′38″; in SE¼ SW¼ SE¼ sec. 35, T. 17 N., R. 4 W. (Anchorage C-8 SW quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the southern shore of Big Lake, Big Lake, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 25 ft, cased to 24 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel in 1999 and 2005 water years.

DATUM.--Elevation of land-surface datum is 153.36 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing cover at 9/16-in. inspection plug, 0.60 ft above land-surface datum.

REMARKS.--Well drilled July 18, 1975 by Jenkins Well Drilling.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--June and August 1999 and July to September 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.91 ft below land-surface datum, September 16, 2005; lowest measured, 12.70 ft below land-surface datum, June 4 and August 6, 1999.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 11.91 ft below land-surface datum, September 16, 2005; lowest measured, 12.53 ft below land-surface datum, August 3, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
July 19	12.31	Sept. 16	11.91
Aug. 3	12.53		

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613053149565301 -- SB01700435DCDC1002

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June and August 1999 and August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)
AUG													
03...	1210	6	9	12.53	13.13	24.0	.10	1	96	7.2	4040	4040	141
SEP													
16...	1300	6	9	11.91	12.51	24.0	.10	1	--	8.2	4040	4040	147

Date	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
AUG													
03...	7.0	--	15.5	9.1	752	2.1	18	64	19.9	3.39	2.84	.57	78
SEP													
16...	6.9	3	10.6	9.6	750	.9	8	--	--	--	--	--	--

Date	Carbonate, wat flt incrm. titr., field, mg/L (00452)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by anal ysis, mg/L (62854)	Total nitrogen, wat unf by anal ysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)
AUG													
03...	.0	64	1.6	4.54	E.1	7.81	83	79	<.002	.043	.06	.07	<.010
SEP													
16...	--	--	--	--	--	--	--	--	<.002	.020	E.04	.09	<.010

Date	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG								
03...	E.003	E.002	E.003	51	3.0	-113	-13.21	.8
SEP								
16...	E.003	E.003	<.006	--	--	-111	-12.82	1.0

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613223149511901. Local number, SB01700329ABBD1020.

LOCATION.--Lat 61°32′24″, Long 149°51′19″; in NW¼ NW¼ NE¼ sec. 29, T. 17 N., R. 3 W. (Anchorage C-8 SW quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the northern shore of Big Lake, Big Lake, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 108 ft, screened from 100 to 105 ft.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel July 2005 to current year.

DATUM.--Elevation of land-surface datum is 149.64 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing 45 degrees from pump electrical conduit 1.58 ft above land-surface datum.

REMARKS.--Well drilled January 9, 1987 by Joe Gielarowski Drilling Company.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--July to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 0.92 ft below land-surface datum, September 9, 2005; lowest measured, 1.17 ft below land-surface datum, July 21, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
July 21	1.17	Sept. 9	0.92
Aug. 1	1.16		

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613223149511901 -- SB01700329ABBD1020

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)
AUG													
01...	1410	6	9	1.16	2.74	108	.10	1	165	20.0	4040	4040	210
SEP													
09...	1040	6	9	.92	2.50	108	.10	1	49	20.0	4040	4040	215

Date	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
AUG													
01...	8.4	-87	18.0	6.6	759	1.0	8	87	25.9	5.34	12.7	1.55	123
SEP													
09...	8.3	-92	10.0	6.0	762	1.6	13	--	--	--	--	--	--

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)
AUG													
01...	101	2.7	.59	.1	11.9	123	122	.002	.021	.17	.16	.123	.080
SEP													
09...	--	--	--	--	--	--	--	E.001	E.008	.17	.15	.140	.099

Date	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG							
01...	.075	.061	26	46.0	-132	-16.91	.9
SEP							
09...	.074	.063	--	--	-132	-16.87	--

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613238149504201. Local number, SB01700320DDAD1007.

LOCATION.--Lat 61°32'39", Long 149°50'38"; in NE$^{1}/_{4}$ SE$^{1}/_{4}$ SE$^{1}/_{4}$ sec. 20, T. 17 N., R. 3 W. (Anchorage C-8 SW quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the northeastern shore of Big Lake, Big Lake, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 81 ft, cased to 80.7 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel July 2005 to current year.

DATUM.--Elevation of land-surface datum is 153.41 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing 180 degrees from pump electrical conduit, 2.66 ft above land-surface datum.

REMARKS.--Well drilled August 22, 1984 by M-W Drilling, Inc.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--July to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 3.68 ft below land-surface datum, September 12, 2005; lowest measured, 4.92 ft below land-surface datum, August 9, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
July 21	4.10	Sept.	3.68
Aug. 9	4.92		

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613238149504201 -- SB01700320DDAD1007

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)
AUG													
09...	1120	6	9	4.92	7.58	78.7	.10	1	69	6.9	4040	4040	--
SEP													
12...	1510	6	9	3.68	6.34	78.7	.10	1	60	7.2	4040	4040	30

Date	Type of replicate, code (99105)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)
AUG													
09...	--	219	8.5	-168	15.6	4.5	769	.4	3	94	28.0	5.77	9.65
SEP													
12...	20.00	222	8.4	-157	11.6	4.4	757	.1	.0	--	--	--	--

Date	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)
AUG													
09...	1.54	139	114	2.7	2.16	E.1	11.2	127	130	<.002	<.016	.17	.16
SEP													
12...	--	--	--	--	--	--	--	--	--	<.002	.019	.17	.17

Date	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG									
09...	.148	.074	.071	.059	83	44.2	-132	-16.86	--
SEP									
12...	.160	.074	.074	.063	--	--	-133	-16.87	.7

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613441149293301. Local number, SB01700108DBBC1020.

LOCATION.--Lat 61°34′37″, Long 149°29′43″; in NW¼ NW¼ SE¼ sec. 8, T. 17 N., R. 1 W. (Anchorage C-7 SW quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the northwestern shore of Lucile Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 40 ft, cased to 40 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel August 2005 to current year.

DATUM.--Elevation of land-surface datum is 326.72 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing 270 degrees from pump electrical conduit 2.00 ft above land-surface datum.

REMARKS.--Well drilled April 4, 1984 by Durbin Drilling Company.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--August to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 1.47 ft below land-surface datum, September 14, 2005; lowest measured, 2.97 ft below land-surface datum, August 10, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
Aug. 10	2.97	Sept. 14	1.47

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613441149293301 -- SB01700108DBBC1020

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)
AUG													
10...	1310	6	9	2.97	4.97	40.	.10	1	185	--	4040	4040	--
SEP													
14...	1620	6	9	1.47	3.47	40.	.10	1	58	8.9	--	4040	100

Date	Type of blank solution, code (99100)	Type of blank sample, code (99102)	Type of replicate, code (99105)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)
AUG													
10...	--	--	--	319	7.6	-21	--	5.9	765	2.3	18	150	50.3
SEP													
14...	50.00	100.00	20.00	283	7.8	-48	16.0	6.3	757	1.2	10	--	--

Date	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)
AUG													
10...	6.86	6.39	1.23	142	117	7.4	21.5	E.1	12.2	189	179	.002	.623
SEP													
14...	--	--	--	--	--	--	--	--	--	--	--	E.001	.313

Date	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG											
10...	.64	.66	<.010	.026	.025	.020	120	6.3	-128	-16.51	.9
SEP											
14...	.33	.35	<.010	.029	.026	.017	--	--	-129	-16.51	.7

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613442149265201. Local number, SB01700110BCCD3046.

LOCATION.--Lat 61°34′43″, Long 149°26′53″; in SW¼ SW¼ NW¼ sec. 10, T. 17 N., R. 1 W. (Anchorage C-7 SW quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the eastern shore of Lucile Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 42 ft, cased to 42 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel July 2005 to current year.

DATUM.--Elevation of land-surface datum is 338.73 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing cover at 9/16-in. inspection plug, 1.79 ft above land-surface datum.

REMARKS.--Well drilled November 21, 1974 by M-W Drilling, Inc.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--July to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 15.48 ft below land-surface datum, September 9, 2005; lowest measured, 16.17 ft below land-surface datum, August 15, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
July 21	16.08	Sept. 9	15.48
Aug. 15	16.17		

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613442149265201 -- SB01700110BCCD3046

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)
AUG 15...	1800	6	9	16.17	17.96	42	.10	1	164	6.2	4040	4040	506
SEP 09...	1630	6	9	15.48	17.27	42	.10	1	51	10.3	4040	4040	503

Date	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
AUG 15...	7.6	-23	20.0	5.8	--	2.5	--	250	80.6	11.8	8.70	1.56	234
SEP 09...	7.6	-46	11.5	5.6	750	2.3	19	--	--	--	--	--	--

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)
AUG 15...	192	9.2	31.3	<.1	13.3	276	280	<.002	1.95	1.95	1.93	<.010	.007
SEP 09...	--	--	--	--	--	--	--	<.002	1.94	2.08	2.06	<.010	.006

Date	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG 15...	.004	<.006	41	1.7	-126	-15.98	.6
SEP 09...	.006	E.004	--	--	-127	-16.04	.6

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613450149273701. Local number, SB01700109ACCD2016.

LOCATION.--Lat 61°34′43″, Long 149°27′47″; in SW¼ SW¼ NE¼ sec. 9, T. 17 N., R. 1 W., (Anchorage C-7 SW quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the northeastern shore of Lucile Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 42 ft, cased to 42 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel July 2005 to current year.

DATUM.--Elevation of land-surface datum is 342.34 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing cover at 9/16-in. inspection plug, 1.20 ft above land-surface datum.

REMARKS.--Well drilled June 16, 1977 by Penn Jersey Drilling Company.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--July to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 16.70 ft below land-surface datum, September 13, 2005; lowest measured, 17.82 ft below land-surface datum, July 21, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
July 21	17.82	Sept. 13	16.70
Aug. 10	17.63		

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613450149273701 -- SB01700109ACCD2016

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)
AUG													
10...	1625	6	7	17.63	18.83	42.0	.10	1	84	8.2	4040	4040	30
SEP													
13...	1700	6	9	16.70	17.90	42.0	.10	1	46	8.7	--	4040	--

Date	Type of replicate, code (99105)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)
AUG													
10...	20.00	229	8.4	-133	--	5.9	--	.3	--	110	31.7	8.68	5.13
SEP													
13...	--	231	8.3	-137	14.6	5.9	756	.2	2	--	--	--	--

Date	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)
AUG													
10...	.94	134	110	5.3	2.62	E.1	12.9	126	133	<.002	<.016	<.06	E.05
SEP													
13...	--	--	--	--	--	--	--	--	--	<.004	<.032	<.06	<.06

Date	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG									
10...	.021	.048	.040	.034	51	55.9	-128	-16.39	.4
SEP									
13...	.022	.049	.039	.029	--	--	-128	-16.42	.5

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613533149184801. Local number, SA01700105CAAA1031.

LOCATION.--Lat 61°35′32″, Long 149°18′55″; in NE$^{1}/_{4}$ NE$^{1}/_{4}$ SW$^{1}/_{4}$ sec. 5, T. 17 N., R. 1 E. (Anchorage C-7 SE quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the southern shore of Cottonwood Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 80 ft, cased to 80 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel July 2005 to current year.

DATUM.--Elevation of land-surface datum is 360.49 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing 180 degrees from pump electrical conduit 1.33 ft above land-surface datum.

REMARKS.--Well drilled May 16, 1984 by Durbin Drilling Company.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--July to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 41.01 ft below land-surface datum, September 14, 2005; lowest measured, 41.40 ft below land-surface datum, August 8, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
July 28	41.29	Sept. 14	41.01
Aug. 8	41.40		

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613533149184801 -- SA01700105CAAA1031

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Type of sample related QA data, code (99111)
AUG													
08...	1640	6	9	41.40	42.73	80.	.10	1	67	9.0	4040	4040	10
SEP													
14...	1100	6	9	41.01	42.34	80.	.10	1	37	9.6	--	4040	--

Date	Type of blank solution, code (99100)	Type of blank sample, code (99102)	Specif. conductance, wat unf uS/cm 25 degC (00095)	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)
AUG													
08...	80.00	100.00	377	7.8	-26	21.5	4.6	765	.9	7	200	64.8	8.97
SEP													
14...	--	--	377	7.9	-48	10.1	4.5	756	.2	1	--	--	--

Date	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)
AUG													
08...	3.16	.99	218	179	9.0	3.98	E.1	12.1	219	215	.118	1.08	1.11
SEP													
14...	--	--	--	--	--	--	--	--	--	--	.119	1.09	1.28

Date	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG										
08...	1.13	E.005	.013	.008	.006	11	274	-132	-16.49	2.2
SEP										
14...	1.15	<.010	.010	.009	E.004	--	--	-130	-16.52	2.1

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613548149201001. Local number, SA01700106ACAA1007.

LOCATION.--Lat 61°35′45″, Long 149°20′16″; in NE$^{1}/_{4}$ SW$^{1}/_{4}$ NE$^{1}/_{4}$ sec. 6, T. 17 N., R. 1 E. (Anchorage C-7 SE quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the western shore of Cottonwood Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 40 ft, cased to 40 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel July 2005 to current year.

DATUM.--Elevation of land-surface datum is 338.49 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing 270 degrees from pump electrical conduit 1.00 ft above land-surface datum.

REMARKS.--Well drilled June 7, 1982 by Valley Drilling.

PERIOD OF RECORD.--July to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 9.73 ft below land-surface datum, September 14, 2005; lowest measured, 10.16 ft below land-surface datum, July 28, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
July 28	10.16	Sept. 14	9.73
Aug. 9	10.06		

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613548149201001 -- SA01700106ACAA1007.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)
AUG													
09...	1520	6	9	10.06	11.06	40.0	.10	1	80	6.2	4040	4040	297
SEP													
14...	1350	6	9	9.73	10.73	40.0	.10	1	77	14.3	4040	4040	307

Date	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
AUG													
09...	7.4	-71	--	9.6	762	.3	3	150	50.8	6.21	3.84	1.12	167
SEP													
14...	7.6	-82	15.5	9.4	--	.3	--	--	--	--	--	--	--

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)
AUG													
09...	137	.9	4.41	<.1	10.9	166	161	<.002	<.016	.07	.06	.021	E.004
SEP													
14...	--	--	--	--	--	--	--	<.002	<.016	.07	.11	.018	.005

Date	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG							
09...	E.002	<.006	126	348	-124	-15.36	1.9
SEP							
14...	E.004	<.006	--	--	-124	-15.46	2.5

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613605149190001. Local number, SA01800132CDAC2001.

LOCATION.--Lat 61°36′06″, Long 149°19′01″; in NE$^{1}/_{4}$ SE$^{1}/_{4}$ SW$^{1}/_{4}$ sec. 32, T. 18 N., R. 1 E. (Anchorage C-7 SE quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the northern shore of Cottonwood Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 51 ft, cased to 51 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel August 2005 to current year.

DATUM.--Elevation of land-surface datum is 335.73 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing 180 degrees from pump electrical conduit 4.17 ft above land-surface datum.

REMARKS.--Well drilled July 27, 1984 by Wheaton Water Wells, Inc.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--August 2005.

EXTREMES FOR CURRENT YEAR.--Water level measured once, 6.30 ft below land-surface datum, August 8, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
Aug. 8	6.30		

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613605149190001 -- SA01800132CDAC2001.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)
AUG 08...	1220	6	9	6.30	10.47	51	.10	1	159	2.9	4040	4040	543

Date	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
AUG 08...	7.4	55	19.5	4.1	765	8.1	62	270	90.7	10.6	6.45	1.61	233

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)
AUG 08...	191	6.8	38.2	<.1	14.1	340	306	<.002	5.29	5.26	5.26	<.010	E.003

Date	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG 08...	<.004	<.006	30	1.7	-124	-15.02	.7

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613716149394101. Local number, SB01800229DAAA3001.

LOCATION.--Lat 61°37′52", Long 149°39′50"; in $NE^1/_4$ $NE^1/_4$ $SE^1/_4$ sec. 29, T.18 N., R. 2 W. (Anchorage C-8 SE quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the northwestern shore of Seymour Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 80 ft, cased to 78 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel in 1999 and from August 2005 to current year.

DATUM.--Elevation of land-surface datum is 378.77 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing 180 degrees from pump electrical conduit 2.36 ft above land-surface datum.

REMARKS.--Well drilled June 8, 1985 by Davis Well Drilling.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--June to August 1999 and August to September 2005.

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 60.00 ft below land-surface datum, June 24, 1999; lowest measured, 60.25 ft below land-surface datum, August 23, 1999.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 60.03 ft below land-surface datum, September 13, 2005; lowest measured, 60.12 ft. below land-surface datum, August 12, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
Aug. 12	60.12	Sept. 13	60.03

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613716149394101 -- SB01800229DAAA3001.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--June to August 1999 and August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)
AUG													
12...	1440	6	9	60.12	62.48	80.	.10	1	83	2.9	4040	4040	301
SEP													
13...	1340	6	9	60.03	62.39	80.	.10	1	44	5.9	--	4040	303

Date	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
AUG													
12...	7.3	-48	26.1	4.8	--	1.7	--	160	54.3	6.77	3.52	1.14	185
SEP													
13...	7.3	-68	14.8	4.6	755	1.0	8	--	--	--	--	--	--

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)
AUG													
12...	152	3.0	1.53	E.1	14.8	174	176	<.002	.071	.15	<.06	.052	<.004
SEP													
13...	--	--	--	--	--	--	--	--	--	--	.15	--	.015

Date	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG							
12...	.012	.007	84	76.3	-130	-16.46	.9
SEP							
13...	--	--	--	--	-130	-16.51	.8

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613717149393101. Local number, SB01800228CBBB1001.

LOCATION.--Lat 61°37′16″, Long 149°39′40″; in NW¼ NW¼ SW¼ sec. 28, T. 18 N., R. 2 W. (Anchorage C-8 SE quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the northwestern shore of Seymour Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 41.0 ft, cased to 40.5 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel August 2005 to current year.

DATUM.--Elevation of land-surface datum is 345.95 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing cover at 9/16-in. inspection plug, 2.36 ft above land-surface datum.

REMARKS.--Well drilled September 26, 1983 by M-W Drilling, Inc.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--August to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 28.61 ft below land-surface datum, September 13, 2005; lowest measured, 28.77 ft below land-surface datum, August 12, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
Aug. 12	28.77	Sept. 13	28.61

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613717149393101 -- SB01800228CBBB1001.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)
AUG 12...	1700	6	9	28.77	31.13	39	.10	1	47	10.6	4040	4040	301
SEP 13...	1140	6	9	28.61	30.97	39	.10	1	32	11.2	--	4040	304

Date	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
AUG 12...	7.1	24	27.1	4.8	--	1.0	--	160	52.9	7.00	3.10	1.10	181
SEP 13...	7.1	-55	12.7	4.6	756	.7	6	--	--	--	--	--	--

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)
AUG 12...	148	3.9	1.81	E.1	13.2	164	173	<.002	.127	.15	.08	<.010	<.004
SEP 13...	--	--	--	--	--	--	--	<.002	.121	.14	.12	<.010	.006

Date	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG 12...	.005	<.006	22	.8	-131	-16.56	--
SEP 13...	.005	<.006	--	--	-131	-16.61	.8

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613723149393201. Local number, SB01800228BCCB1004.

LOCATION.--Lat 61°37′21″, Long 149°39′40″; in SW¼ SW¼ NW¼ sec. 28, T. 18 N., R. 2 W. (Anchorage C-8 SE quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the northwestern shore of Seymour Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 99 ft, cased to 99 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel August 2005 to current year.

DATUM.--Elevation of land-surface datum is 408.85 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing cover at 9/16-in. inspection plug 2.36 ft above land-surface datum.

REMARKS.--Well drilled August 16, 2002 by Penn Jersey Drilling, Inc.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--August to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 76.53 ft below land-surface datum, August 12, 2005; lowest measured, 76.61 ft below land-surface datum, September 13, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
Aug. 12	76.53	Sept. 13	76.61

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613723149393201 -- SB01800228BCCB1004.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)
AUG 12...	1130	6	9	76.53	78.88	99	.10	1	60	10.0	4040	4040	378
SEP 13...	0940	6	9	76.61	78.97	99	.10	1	31	10.0	--	4040	375

Date	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
AUG 12...	7.2	-55	29.0	4.9	762	1.1	9	200	67.6	8.01	3.04	1.23	230
SEP 13...	7.2	-78	9.8	4.5	754	.6	5	--	--	--	--	--	--

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)
AUG 12...	189	5.5	2.59	E.1	11.5	213	213	<.002	.120	.14	.08	E.006	<.004
SEP 13...	--	--	--	--	--	--	--	E.001	.100	.13	.12	E.006	<.004

Date	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG 12...	E.002	<.006	302	28.4	-130	-16.65	.9
SEP 13...	<.004	<.006	--	--	-130	-16.69	.8

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613724149252301. Local number, SB01800127ADCA1008.

LOCATION.--Lat 61°37′22″, Long 149°25′30″; in SW¼ SE¼ NE¼ sec. 27, T. 18 N., R. 1 W. (Anchorage C-7 SE quad) Seward Meridian, Hydrologic Unit 19020505. Well located near the southwestern shore of Memory Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 60 ft, cased to 60 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel July 2005 to current year.

DATUM.--Elevation of land-surface datum is 493.83 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing 45 degrees from pump electrical conduit 2.54 ft above land-surface datum.

REMARKS.--Well drilled April 22, 1983 by Durbin Drilling Company.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--July to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 25.75 ft below land-surface datum, September 12, 2005; lowest measured, 26.33 ft below land-surface datum, August 5, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
July 29	26.17	Aug. 5	26.33
Aug. 3	26.11	Sept. 12	25.75

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613724149252301 -- SB01800127ADCA1008.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)
AUG 05...	1310	6	9	26.33	28.87	60.	.10	1	174	13.3	4040	4040	538
SEP 12...	1210	6	9	25.75	28.29	60.	.10	1	36	13.6	4040	4040	547

Date	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
AUG 05...	6.9	--	16.0	5.5	752	2.3	19	260	77.1	17.3	9.84	1.55	233
SEP 12...	6.9	.2	12.5	5.1	--	1.5	--	--	--	--	--	--	--

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Residue water, fltrd, sum of constituents mg/L (70301)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)
AUG 05...	191	6.8	44.6	<.1	17.6	307	308	<.002	4.18	4.04	4.02	.021	.005
SEP 12...	--	--	--	--	--	--	--	<.002	4.42	4.31	4.39	.022	.004

Date	Phosphorus, water, fltrd, mg/L (00666)	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG 05...	.005	<.006	8	68.1	-128	-16.16	.7
SEP 12...	.006	E.003	--	--	-127	-16.20	.8

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613728149252801. Local number, SB01800127ADBA1034.

LOCATION.--Lat 61°37′28″, Long 149°25′28″; in NW¼ SE¼ NE¼ sec. 27, T. 18 N., R. 1 W. (Anchorage C-7 NE quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the southwestern shore of Memory Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 100 ft, cased to 100 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel July 2005 to current year.

DATUM.--Elevation of land-surface datum is 508.57 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing 180 degrees from pump electrical conduit, 2.92 ft above land-surface datum.

REMARKS.--Well drilled May 7, 1999 by Wheaton Water Wells, Inc.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--July to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 41.93 ft below land-surface datum, July 19, 2005; lowest measured, 42.16 ft below land-surface datum, September 9, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
July 19	41.93	Sept. 9	42.16
Aug. 3	42.10		

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613728149252801 -- SB01800127ADBA1034.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)
AUG													
03...	1600	6	9	42.10	45.02	100	.10	1	80	11.2	4040	4040	269
SEP													
09...	1340	6	9	42.16	45.08	100	.10	1	43	11.6	4040	4040	277

Date	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
AUG													
03...	7.2	-100	18.0	8.2	--	.8	--	110	31.4	8.68	4.28	1.17	156
SEP													
09...	7.1	-129	11.5	7.5	752	.3	3	--	--	--	--	--	--

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)
AUG													
03...	129	<.2	1.95	<.1	27.3	157	<.002	<.016	1.89	1.86	1.81	.091	.094
SEP													
09...	--	--	--	--	--	--	.008	<.016	2.02	1.87	1.80	.092	.008

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG						
03...	<.006	7960	531	-108	-12.10	2.2
SEP						
09...	.006	--	--	-110	-12.13	2.3

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613743149255101. Local number, SB01800127ABBD2021.

LOCATION.--Lat 61°37′39″, Long 149°25′59″; in NW¼ NW¼ NE¼ sec. 27, T. 18 N., R. 1 W., (Anchorage C-7 NE quad), Seward Meridian, Hydrologic Unit 19020505. Well located near the western shore of Memory Lake, Wasilla, Alaska.

AQUIFER.--Sand and gravel of the Quaternary System.

WELL CHARACTERISTICS.--Diameter 6-in. steel casing, depth 80 ft, cased to 80 ft and open at bottom.

INSTRUMENTATION.--Intermittent measurements made by U.S. Geological Survey personnel July 2005 to current year.

DATUM.--Elevation of land-surface datum is 505.99 ft NAVD88. Horizontal coordinates are NAD83. (Elevation and horizontal coordinates determined using Survey-Grade Global Positioning System Static and Real-Time-Kinematic surveys). Measuring point: top of casing 180 degrees from pump electrical conduit, 2.25 ft above land-surface datum.

REMARKS.--Well drilled June 29, 1984 by Durbin Drilling Company.

WATER-LEVEL RECORDS

PERIOD OF RECORD.--July to September 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 35.45 ft below land-surface datum, September 12, 2005; lowest measured, 35.61 ft below land-surface datum, July 29 and August 5, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET)
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Water Level (ft)	Date	Water Level (ft)
July 29	35.61	Sept. 12	35.45
Aug. 5	35.61		

SOUTH-CENTRAL ALASKA—Continued

MATANUSKA-SUSITNA BOROUGH—Continued

613743149255101 -- SB01800127ABBD2021.

WATER-QUALITY RECORDS

PERIOD OF RECORD.--August to September 2005.

WATER-QUALITY DATA, WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Medium code	Sample type	Depth to water level, feet below LSD (72019)	Water level, depth below MP, feet (61055)	Depth of well, feet below LSD (72008)	Sampling condition, code (72006)	Sample treatment, code (00115)	Pump or flow period prior to sampling, minutes (72004)	Flow rate, instantaneous gal/min (00059)	Sampling method, code (82398)	Sampler type, code (84164)	Specif. conductance, wat unf uS/cm 25 degC (00095)
AUG													
05...	1600	6	9	35.61	37.86	80.	.10	1	62	9.5	4040	4040	222
SEP													
12...	1010	6	9	35.45	37.69	80.	.10	1	58	9.9	4040	4040	225

Date	pH, water, unfltrd field, std units (00400)	Oxidation reduction potential, mV (00090)	Temperature, air, deg C (00020)	Temperature, water, deg C (00010)	Barometric pressure, mm Hg (00025)	Dissolved oxygen, mg/L (00300)	Dissolved oxygen, percent of saturation (00301)	Hardness, water, mg/L as CaCO3 (00900)	Calcium water, fltrd, mg/L (00915)	Magnesium, water, fltrd, mg/L (00925)	Sodium, water, fltrd, mg/L (00930)	Potassium, water, fltrd, mg/L (00935)	Bicarbonate, wat flt incrm. titr., field, mg/L (00453)
AUG													
05...	6.9	.0	20.0	5.5	752	.6	5	110	29.7	8.97	3.00	.81	140
SEP													
12...	6.9	-60	10.6	5.4	748	.3	2	--	--	--	--	--	--

Date	Alkalinity, wat flt inc tit field, mg/L as CaCO3 (39086)	Sulfate water, fltrd, mg/L (00945)	Chloride, water, fltrd, mg/L (00940)	Fluoride, water, fltrd, mg/L (00950)	Silica, water, fltrd, mg/L (00955)	Residue on evap. at 180degC wat flt mg/L (70300)	Nitrite water, fltrd, mg/L as N (00613)	Nitrite + nitrate water fltrd, mg/L as N (00631)	Total nitrogen, wat flt by analysis, mg/L (62854)	Total nitrogen, wat unf by analysis, mg/L (62855)	Ammonia water, fltrd, mg/L as N (00608)	Phosphorus, water, unfltrd mg/L (00665)	Phosphorus, water, fltrd, mg/L (00666)
AUG													
05...	114	<.2	1.40	E.1	26.3	146	<.002	<.016	.10	.10	.024	.036	.031
SEP													
12...	--	--	--	--	--	--	<.002	<.016	.11	.10	.025	.037	.031

Date	Orthophosphate, water, fltrd, mg/L as P (00671)	Iron, water, fltrd, ug/L (01046)	Manganese, water, fltrd, ug/L (01056)	Deuterium/ Protium ratio, water, unfltrd per mil (82082)	O-18 / O-16 ratio, water, unfltrd per mil (82085)	Organic carbon, water, fltrd, mg/L (00681)
AUG						
05...	.024	138	2170	-103	-10.58	2.2
SEP						
12...	.028	--	--	-103	-10.52	2.2

YUKON ALASKA

FAIRBANKS NORTH STAR BOROUGH

644321147163801. Local number, FD00200223DDBA1003.

LOCATION.--Lat 64°43'21", Long 147°16'38", in NW¼ SE¼ SE¼ sec. 23, T.2 S., R.2 E., (Fairbanks C-1 NW quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located approximately 0.3 mi east of the Dyke Road, Old Richardson Highway and Levee Road intersection in city of North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 20.4 ft, screen opening from 15.4 ft to 19.9 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 13, 2001 to current year.

DATUM.--Elevation of land-surface datum is 510.14 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.60 ft above land surface datum.

REMARKS.--Observation well drilled April 10, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-14.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 9.29 ft below land-surface datum, July 28, 2003; lowest, 12.59 ft below land-surface datum, November 3, 2004.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 9.76 ft below land-surface datum, July 18-19; lowest, 12.59 ft below land-surface datum, November 3.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.92	12.56	12.12	12.40	12.40	12.44	12.39	10.89	11.12	9.87	10.25	10.71
2	11.94	12.57	12.12	12.40	12.41	12.44	12.39	10.81	11.07	9.85	10.31	10.77
3	11.98	12.56	12.12	12.41	12.42	12.44	12.40	10.76	10.97	9.90	10.35	10.81
4	12.00	12.49	12.11	12.42	12.43	12.44	12.40	10.74	10.92	9.90	10.41	10.86
5	12.03	12.43	12.11	12.42	12.44	12.44	12.41	10.76	10.89	9.83	10.41	10.92
6	12.06	12.37	12.12	12.40	12.44	12.44	12.41	10.80	10.87	9.90	10.45	10.97
7	12.09	12.33	12.16	12.38	12.45	12.45	12.41	10.87	10.90	9.84	10.46	---
8	12.11	12.31	12.18	12.36	12.45	12.44	12.41	10.94	10.94	9.79	10.49	---
9	12.13	12.27	12.21	12.34	12.45	12.45	12.40	11.00	10.99	9.81	10.51	---
10	12.15	12.24	12.24	12.32	12.45	12.44	12.40	11.03	11.03	9.77	10.56	---
11	12.18	12.20	12.26	12.32	12.46	12.45	12.38	11.07	11.08	9.84	10.58	---
12	12.20	12.16	12.28	12.32	12.46	12.45	12.36	11.09	10.98	9.87	10.53	---
13	12.22	12.11	12.30	12.34	12.45	12.44	12.34	11.11	10.82	9.86	10.47	---
14	12.24	12.06	12.31	12.37	12.46	12.42	12.30	11.11	10.83	9.87	10.42	---
15	12.26	12.03	12.31	12.40	12.46	12.40	12.27	11.05	10.83	9.91	10.39	---
16	12.27	12.01	12.31	12.41	12.46	12.40	12.25	11.02	10.79	9.92	10.33	---
17	12.29	11.99	12.32	12.40	12.46	12.39	12.22	10.91	10.73	9.91	10.30	---
18	12.31	11.98	12.31	12.39	12.46	12.38	12.20	10.78	10.67	9.76	10.30	---
19	12.32	11.97	12.32	12.38	12.46	12.36	12.20	10.78	10.34	9.76	10.32	---
20	12.34	11.98	12.33	12.38	---	12.36	12.20	10.81	10.15	9.83	10.35	---
21	12.35	11.99	12.31	12.39	---	12.36	12.20	10.84	10.07	9.85	10.38	---
22	12.37	11.99	12.29	12.39	---	12.36	12.19	10.87	10.03	9.90	10.43	---
23	12.38	11.99	12.31	12.40	---	12.38	12.11	10.90	10.04	9.98	10.47	---
24	12.40	11.99	12.34	12.40	12.44	12.39	11.93	10.97	10.08	10.05	10.48	---
25	12.43	12.01	12.34	12.40	12.44	12.39	11.76	11.03	10.11	10.07	10.50	---
26	12.44	12.04	12.34	12.39	12.44	12.39	11.58	11.07	10.14	10.15	10.50	---
27	12.46	12.07	12.36	12.38	12.44	12.38	11.41	11.10	10.22	10.19	10.54	---
28	12.48	12.08	12.38	12.38	12.44	12.38	11.23	11.14	10.29	10.21	10.59	---
29	12.49	12.11	12.39	12.38	---	12.39	11.10	11.19	10.33	10.25	10.62	---
30	12.52	12.13	12.39	12.38	---	12.40	10.98	11.22	10.36	10.23	10.66	---
31	12.54	---	12.40	12.38	---	12.39	---	11.17	---	10.25	10.68	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644331147183901. Local number, FD00200222DABD1006.

LOCATION.--Lat 64°43′31″, Long 147°18′39″, in NW¼ NE¼ SE¼ sec. 22, T.2 S., R.2 E., (Fairbanks C-1 NW quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located on north side of Old Richardson Highway and VFW Road intersection in city of North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 17.1 ft, screen opening from 12.1 ft to 16.6 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 13, 2001 to current year.

DATUM.--Elevation of land-surface datum is 499.94 ft NGVD of 1929 (revised; levels by U.S. Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.69 ft above land surface datum.

REMARKS.--Observation well drilled April 9, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-16.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.73 ft below land-surface datum, July 30, 2003; lowest, 7.55 ft below land-surface datum, November 2-3, 2004.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 4.16 ft below land-surface datum, July 20; lowest, 7.55 ft below land-surface datum, November 2-3.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.77	7.51	6.60	6.99	6.88	6.97	6.97	5.72	5.70	4.38	4.69	5.22
2	6.79	7.53	6.61	7.00	6.89	6.96	6.98	5.68	5.64	4.35	4.75	5.26
3	6.81	7.28	6.62	7.01	6.90	6.97	6.99	5.66	5.57	4.36	4.80	5.30
4	6.84	7.14	6.62	7.01	6.92	6.96	7.00	5.65	5.54	4.34	4.85	5.35
5	6.86	7.04	6.64	6.99	6.93	6.96	7.00	5.65	5.52	4.30	4.89	5.41
6	6.88	6.96	6.67	6.95	6.93	6.98	7.00	5.70	5.50	4.32	4.90	5.45
7	6.90	6.89	6.72	6.91	6.93	6.98	7.00	5.74	5.51	4.28	4.90	5.50
8	6.92	6.84	6.76	6.88	6.93	6.97	6.98	5.80	5.52	4.23	4.92	5.50
9	6.94	6.77	6.79	6.86	6.94	6.97	6.97	5.83	5.55	4.23	4.93	5.48
10	6.96	6.72	6.81	6.85	6.94	6.96	6.95	5.86	5.57	4.20	4.96	5.49
11	6.99	6.65	6.84	6.85	6.96	6.96	6.91	5.86	5.60	4.24	4.96	5.50
12	7.01	6.56	6.85	6.87	6.96	6.97	6.89	5.85	5.54	4.24	4.88	5.50
13	7.03	6.48	6.86	6.91	6.95	6.95	6.84	5.84	5.48	4.21	4.82	5.53
14	7.05	6.41	6.87	6.94	6.96	6.93	6.80	5.83	5.44	4.21	4.77	5.55
15	7.08	6.37	6.85	6.95	6.96	6.91	6.77	5.78	5.36	4.26	4.73	5.56
16	7.10	6.35	6.85	6.94	6.97	6.91	6.74	5.73	5.27	4.31	4.67	5.57
17	7.12	6.34	6.86	6.91	6.97	6.92	6.74	5.67	5.18	4.31	4.64	5.60
18	7.14	6.34	6.84	6.89	6.97	6.91	6.74	5.61	5.09	4.20	4.64	5.63
19	7.16	6.37	6.84	6.89	6.96	6.91	6.77	5.57	4.89	4.17	4.66	5.64
20	7.19	6.40	6.85	6.89	6.96	6.92	6.80	5.55	4.69	4.16	4.69	5.67
21	7.21	6.42	6.84	6.88	6.96	6.92	6.80	5.56	4.51	4.18	4.76	5.69
22	7.24	6.44	6.82	6.88	6.96	6.94	6.70	5.58	4.45	4.23	4.83	5.69
23	7.27	6.44	6.84	6.89	6.96	6.97	6.56	5.60	4.45	4.34	4.86	5.67
24	7.29	6.44	6.89	6.89	6.96	6.97	6.34	5.63	4.49	4.43	4.92	5.67
25	7.33	6.48	6.89	6.88	6.96	6.98	6.17	5.68	4.52	4.48	4.93	5.70
26	7.36	6.52	6.91	6.87	6.96	6.98	6.09	5.70	4.56	4.54	4.93	5.69
27	7.39	6.57	6.94	6.87	6.96	6.97	6.01	5.70	4.62	4.59	4.96	5.69
28	7.41	6.60	6.97	6.87	6.97	6.96	5.89	5.74	4.66	4.61	5.01	5.70
29	7.44	6.63	6.97	6.87	---	6.97	5.82	5.77	4.69	4.63	5.06	5.73
30	7.47	6.62	6.96	6.86	---	6.98	5.76	5.78	4.69	4.64	5.12	5.75
31	7.49	---	6.97	6.87	---	6.97	---	5.74	---	4.67	5.17	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644345147172101. Local number, FD00200223BDAD1002.

LOCATION.--Lat 64°43'45", Long 147°17'21", in NE$^1/_4$ SE$^1/_4$ NW$^1/_4$ sec. 23, T.2 S., R.2 E., (Fairbanks C-1 NW quad) Fairbanks Merician, Hydrologic Unit 19040506. Well located approximately 0.2 mi south on Dyke Road from intersection with Laurance Road in city of North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 13.0 ft, screen opening from 7.8 ft to 12.8 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 13, 2001 to current year.

DATUM.--Elevation of land-surface datum is 499.84 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.03 ft above land surface datum.

REMARKS.--Observation well drilled June 7, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-13.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.59 ft below land-surface datum, July 31, 2003; lowest, 8.23 ft below land-surface datum, November 2-3, 2004.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 5.86 ft below land-surface datum, July 19; lowest, 8.23 ft below land-surface datum, November 2-3.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.53	8.18	7.77	8.05	8.02	8.08	8.08	7.01	6.89	6.11	6.16	6.52
2	7.55	8.22	7.78	8.05	8.02	8.08	8.08	6.97	6.86	6.05	6.18	6.55
3	7.57	8.22	7.78	8.05	8.03	8.09	8.08	6.95	6.83	6.03	6.20	6.57
4	7.59	8.18	7.78	8.06	8.04	8.08	8.09	6.93	6.80	6.01	6.23	6.60
5	7.61	8.14	7.78	8.06	8.05	8.08	8.09	6.91	6.78	5.98	6.26	6.63
6	7.64	8.09	7.80	8.05	8.05	8.09	8.09	6.91	6.77	5.97	6.28	6.66
7	7.67	8.05	7.81	8.03	8.05	8.09	8.09	6.92	6.77	5.96	6.29	6.66
8	7.69	8.03	7.84	8.01	8.05	8.08	8.09	6.93	6.78	5.93	6.31	6.67
9	7.71	7.99	7.86	8.01	8.06	8.09	8.08	6.94	6.79	5.91	6.32	6.63
10	7.73	7.96	7.88	8.00	8.07	8.08	8.06	6.95	6.81	5.89	6.34	6.64
11	7.76	7.93	7.90	7.99	8.08	8.08	8.04	6.95	6.83	5.90	6.37	6.65
12	7.79	7.89	7.92	7.99	8.08	8.09	8.02	6.95	6.82	5.90	6.36	6.65
13	7.81	7.85	7.94	8.00	8.08	8.09	8.00	6.95	6.78	5.90	6.34	6.68
14	7.83	7.81	7.95	8.02	8.08	8.08	7.97	6.95	6.76	5.89	6.32	6.73
15	7.85	7.78	7.96	8.03	8.08	8.06	7.94	6.94	6.75	5.91	6.32	6.71
16	7.87	7.75	7.96	8.04	8.09	8.06	7.92	6.92	6.72	5.93	6.30	6.71
17	7.89	7.72	7.97	8.04	8.09	8.06	7.90	6.90	6.69	5.93	6.27	6.74
18	7.91	7.71	7.96	8.03	8.09	8.06	7.89	6.84	6.65	5.88	6.27	6.78
19	7.93	7.69	7.97	8.02	8.09	8.05	7.89	6.81	6.56	5.86	6.29	6.80
20	7.95	7.69	7.98	8.02	8.08	8.05	7.90	6.80	6.43	5.87	6.29	6.86
21	7.97	7.69	7.97	8.02	8.08	8.05	7.90	6.79	6.32	5.87	6.31	6.84
22	7.99	7.69	7.95	8.01	8.08	8.05	7.86	6.78	6.26	5.89	6.34	6.82
23	8.00	7.68	7.95	8.02	8.08	8.07	7.77	6.79	6.22	5.92	6.35	6.80
24	8.02	7.68	7.98	8.02	8.08	8.07	7.65	6.80	6.21	5.97	6.38	6.79
25	8.05	7.69	7.99	8.02	8.08	8.07	7.54	6.81	6.20	6.00	6.40	6.87
26	8.06	7.71	7.99	8.02	8.08	8.07	7.42	6.82	6.20	6.03	6.40	6.85
27	8.09	7.72	8.00	8.01	8.08	8.07	7.31	6.82	6.21	6.06	6.41	6.82
28	8.11	7.74	8.01	8.01	8.08	8.07	7.20	6.85	6.22	6.10	6.43	6.84
29	8.12	7.76	8.03	8.01	---	8.07	7.12	6.87	6.24	6.12	6.44	6.92
30	8.15	7.78	8.03	8.01	---	8.08	7.06	6.90	6.25	6.14	6.47	6.94
31	8.17	---	8.04	8.01	---	8.07	---	6.90	---	6.15	6.49	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644400147151501. Local number, FD00200224ABBB1001 51659.

LOCATION.--Lat 64°44′00″, long 147°15′15″, in NW¼ NW¼ NW¼ sec. 24, T.2 S., R.2 E., (Fairbanks C-1) Fairbanks Meridian, 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 ft 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 503.50 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.

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, 13.84 ft below land-surface datum, April 11, 2005, but may have been lower during periods of missing record.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 11.83 ft below land-surface datum, July 22-25; lowest, 13.84 ft below land-surface datum, April 11, but may have been lower during periods of missing record.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.91	13.41	---	---	---	---	---	13.03	12.61	12.24	11.89	12.21
2	12.93	13.43	---	---	---	---	---	12.98	12.60	12.21	11.90	12.22
3	12.94	13.43	---	---	---	---	---	12.93	12.59	12.19	11.90	12.23
4	12.96	13.46	---	---	---	---	---	12.90	12.58	12.16	11.91	12.25
5	12.97	13.47	---	---	---	---	‡13.81	12.87	12.57	12.13	11.93	12.27
6	12.99	13.48	---	---	---	---	‡13.81	12.84	12.56	12.12	11.95	12.29
7	13.01	13.49	---	---	---	---	---	12.82	12.55	12.10	11.96	12.32
8	13.03	13.50	---	---	---	---	---	12.80	12.54	12.07	11.98	12.33
9	13.04	13.50	---	---	---	---	---	12.78	12.55	12.05	11.99	12.34
10	13.06	13.51	---	---	---	---	---	12.76	12.57	12.02	12.00	12.34
11	13.08	13.51	---	---	---	---	13.84	12.75	12.58	12.00	12.02	12.36
12	13.10	13.50	---	---	---	---	13.81	12.74	12.56	11.97	12.04	12.37
13	13.11	13.50	---	---	---	---	13.80	12.74	12.55	11.95	12.05	12.37
14	13.13	13.49	---	---	---	---	13.78	12.74	12.54	11.94	12.06	12.39
15	13.15	13.48	---	---	---	---	13.77	12.74	12.54	11.92	12.07	12.40
16	13.16	13.48	---	---	---	---	13.76	12.73	12.53	11.91	12.08	12.40
17	13.18	13.48	---	---	---	---	13.75	12.73	12.53	11.90	12.06	12.42
18	13.19	‡13.46	---	---	---	‡13.73	13.74	12.70	12.52	11.88	12.07	12.45
19	13.21	---	---	---	---	---	13.73	12.69	12.50	11.87	12.08	12.46
20	13.23	---	---	‡13.71	---	---	13.72	12.68	12.48	11.86	12.10	12.48
21	13.24	---	---	---	---	---	13.72	12.66	12.45	11.85	12.11	12.48
22	13.26	---	---	---	---	---	13.71	12.65	12.42	11.83	12.13	12.47
23	13.27	---	---	---	‡13.78	---	13.68	12.64	12.39	11.83	12.12	12.47
24	13.29	---	---	---	---	---	13.60	12.62	12.37	11.83	12.14	12.47
25	13.31	---	---	---	---	---	13.50	12.60	12.34	11.83	12.15	12.50
26	13.32	---	---	---	---	---	13.40	12.59	12.32	11.84	12.16	12.50
27	13.33	---	---	---	---	---	13.30	12.59	12.30	11.84	12.17	12.49
28	13.35	---	---	---	---	---	13.21	12.60	12.29	11.85	12.16	12.51
29	13.36	---	---	---	---	---	13.14	12.60	12.27	11.86	12.17	12.53
30	13.38	---	---	---	---	---	13.08	12.61	12.26	11.87	12.19	12.53
31	13.40	---	---	---	---	---	---	12.61	---	11.88	12.21	---

‡ Tapedown

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644401147193801. Local number, FD00200222BABA1005.

LOCATION.--Lat 64°44′01″, Long 147°19′38″, in NW¼ NE¼ NW¼ sec. 22, T.2 S., R.2 E., (Fairbanks C-1 NW quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located at southeast corner of Laurance Road and Old Richardson Highway intersection, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 14.1 ft, screen opening from 9.1 ft to 13.6 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 13, 2001 to current year.

DATUM.--Elevation of land-surface datum is 496.04 ft above sea level, NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 3.70 ft above land surface datum.

REMARKS.--Observation well drilled April 9, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-15.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 3.35 ft below land-surface datum, July 30, 2003; lowest, 6.73 ft below land-surface datum, November 2-3, 2004.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 3.67 ft below land-surface datum, July 20-21; lowest, 6.73 ft below land-surface datum, Novmeber 2-3.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6.04	6.69	5.97	6.32	6.22	6.29	6.33	5.22	5.09	3.96	4.18	4.69
2	6.06	6.71	5.98	6.32	6.23	6.29	6.34	5.18	5.04	3.92	4.21	4.72
3	6.08	6.55	6.00	6.32	6.23	6.29	6.34	5.14	4.97	3.91	4.24	4.75
4	6.10	6.41	6.00	6.33	6.25	6.29	6.35	5.12	4.93	3.89	4.28	4.81
5	6.13	6.32	6.00	6.32	6.26	6.29	6.36	5.11	4.92	3.85	4.32	4.86
6	6.15	6.24	6.02	6.29	6.25	6.30	6.35	5.12	4.90	3.85	4.34	4.91
7	6.16	6.18	6.06	6.25	6.26	6.30	6.35	5.15	4.89	3.82	4.35	4.95
8	6.18	6.13	6.09	6.22	6.26	6.30	6.34	5.19	4.91	3.78	4.37	4.92
9	6.20	6.07	6.12	6.21	6.27	6.30	6.33	5.22	4.93	3.76	4.39	4.89
10	6.22	6.02	6.15	6.20	6.27	6.30	6.31	5.23	4.95	3.73	4.41	4.91
11	6.24	5.97	6.17	6.20	6.28	6.30	6.28	5.23	4.98	3.75	4.44	4.91
12	6.26	5.90	6.19	6.20	6.28	6.31	6.24	5.21	4.94	3.76	4.41	4.93
13	6.28	5.83	6.21	6.24	6.27	6.30	6.21	5.20	4.89	3.74	4.38	4.98
14	6.31	5.76	6.22	6.27	6.28	6.28	6.19	5.19	4.87	3.73	4.36	4.98
15	6.33	5.72	6.21	6.28	6.29	6.26	6.17	5.16	4.84	3.75	4.34	4.98
16	6.34	5.70	6.21	6.28	6.30	6.26	6.14	5.11	4.79	3.78	4.30	5.00
17	6.37	5.69	6.22	6.25	6.30	6.27	6.13	5.08	4.75	3.79	4.26	5.02
18	6.37	5.69	6.21	6.23	6.30	6.27	6.12	5.02	4.70	3.70	4.27	5.06
19	6.39	5.71	6.21	6.22	6.29	6.27	6.13	4.97	4.55	3.69	4.29	5.10
20	6.42	5.73	6.21	6.23	6.27	6.27	6.16	4.94	4.40	3.67	4.31	5.15
21	6.44	5.75	6.19	6.22	6.27	6.27	6.18	4.94	4.25	3.67	4.34	5.13
22	6.47	5.77	6.17	6.22	6.27	6.29	6.14	4.94	4.15	3.69	4.39	5.12
23	6.49	5.79	6.19	6.23	6.28	6.31	6.04	4.95	4.12	3.77	4.40	5.09
24	6.51	5.80	6.23	6.23	6.28	6.32	5.88	4.98	4.10	3.85	4.43	5.09
25	6.53	5.84	6.23	6.23	6.27	6.32	5.74	5.03	4.10	3.92	4.46	5.18
26	6.56	5.88	6.24	6.22	6.28	6.32	5.64	5.05	4.11	3.98	4.46	5.15
27	6.58	5.92	6.27	6.22	6.28	6.32	5.54	5.06	4.14	4.03	4.48	5.12
28	6.60	5.95	6.29	6.22	6.29	6.31	5.43	5.10	4.17	4.08	4.51	5.13
29	6.62	5.98	6.30	6.22	---	6.33	5.34	5.13	4.19	4.11	4.55	5.20
30	6.65	5.98	6.30	6.21	---	6.33	5.27	5.15	4.21	4.13	4.59	5.20
31	6.67	---	6.31	6.21	---	6.33	---	5.12	---	4.16	4.64	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644402147132801. Local number, FD00200319BAAB1001.

LOCATION.--Lat 64°44'02", Long 147°13'28", in NE$^1/_4$ NE$^1/_4$ NW$^1/_4$ sec. 19, T.2 S., R.3 E., (Fairbanks C-1 NE quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located approximately 1.2 mi east of gate at gravel road from U.S. Army Corps of Engineers office, then north of gravel road beneath power lines, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 24.3 ft, screen opening from 19.2 ft to 24.2 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 5, 2001 to current year.

DATUM.--Elevation of land-surface datum is 505.44 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 5.93 ft above land surface datum.

REMARKS.--Observation well drilled September 7, 1994 by the U.S. Army Corps of Engineers and designated as USAP-1.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.64 ft below land-surface datum, September 24, 2003; lowest, 14.87 ft below land-surface datum, April 7-8, and 15, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 12.84 ft below land-surface datum, August 3-4; lowest, 14.87 ft below land-surface datum, April 15.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.76	14.18	14.42	14.58	14.70	14.80	14.84	14.21	13.70	13.37	12.85	13.13
2	13.78	14.19	14.42	14.59	14.71	14.81	14.84	14.18	13.70	13.35	12.85	13.13
3	13.78	14.20	14.43	14.59	14.71	14.81	14.84	14.16	13.69	13.33	12.84	13.13
4	13.79	14.22	14.43	14.60	14.72	14.80	14.85	14.13	13.69	13.31	12.84	13.15
5	13.81	14.23	14.43	14.60	14.72	14.80	14.85	14.11	13.67	13.30	12.85	13.16
6	13.81	14.25	14.44	14.61	14.72	14.81	14.84	14.08	13.66	13.27	12.87	13.17
7	13.83	14.26	14.44	14.62	14.73	14.81	14.84	14.06	13.65	13.25	12.88	13.18
8	13.85	14.27	14.45	14.62	14.73	14.81	14.84	14.04	13.65	13.23	12.89	13.21
9	13.86	14.28	14.45	14.63	14.73	14.82	14.85	14.02	13.64	13.20	12.89	13.22
10	13.87	14.30	14.46	14.62	14.73	14.82	14.85	14.00	13.63	13.18	12.90	13.22
11	13.89	14.31	14.46	14.63	14.75	14.82	14.85	13.98	13.63	13.16	12.91	13.24
12	13.90	14.32	14.47	14.63	14.75	14.82	14.85	13.96	13.62	13.14	12.93	13.24
13	13.92	14.33	14.47	14.63	14.75	14.83	14.85	13.94	13.62	13.11	12.93	13.26
14	13.93	14.34	14.48	14.64	14.76	14.83	14.85	13.93	13.61	13.09	12.94	13.27
15	13.95	14.34	14.49	14.64	14.77	14.83	14.85	13.91	13.60	13.07	12.94	13.28
16	13.96	14.35	14.49	14.64	14.77	14.83	14.84	13.89	13.60	13.05	12.96	13.28
17	13.98	14.36	14.50	14.65	14.77	14.84	14.84	13.88	13.59	13.03	12.97	13.29
18	13.99	14.36	14.50	14.65	14.77	14.84	14.83	13.87	13.58	13.01	12.97	13.30
19	14.00	14.37	14.51	14.65	14.78	14.84	14.83	13.85	13.57	12.99	12.98	13.31
20	14.02	14.37	14.52	14.66	14.78	14.84	14.82	13.84	13.57	12.97	12.99	13.33
21	14.03	14.38	14.52	14.67	14.78	14.82	14.82	13.83	13.55	12.95	13.00	13.35
22	14.04	14.38	14.52	14.67	14.79	14.83	14.82	13.81	13.54	12.94	13.03	13.34
23	14.06	14.38	14.53	14.67	14.79	14.83	14.81	13.80	13.53	12.92	13.02	13.35
24	14.07	14.38	14.54	14.68	14.79	14.83	14.79	13.79	13.51	12.91	13.03	13.34
25	14.09	14.39	14.54	14.68	14.80	14.84	14.74	13.77	13.49	12.89	13.05	13.37
26	14.10	14.40	14.55	14.69	14.80	14.84	14.63	13.75	13.47	12.88	13.07	13.38
27	14.11	14.40	14.55	14.69	14.80	14.84	14.47	13.74	13.45	12.87	13.09	13.36
28	14.12	14.40	14.56	14.69	14.80	14.84	14.34	13.73	13.44	12.86	13.08	13.36
29	14.13	14.40	14.57	14.69	---	14.84	14.26	13.72	13.42	12.85	13.09	13.39
30	14.15	14.41	14.57	14.70	---	14.84	14.23	13.71	13.39	12.85	13.10	13.39
31	14.16	---	14.58	14.70	---	14.84	---	13.71	---	12.85	13.11	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644402147150401. Local number, FD00200224ABBA1002.

LOCATION.--Lat 64°44'02", Long 147°15'04", in NW$^1/_4$ NW$^1/_4$ NE$^1/_4$ sec. 24, T.2 S., R.2 E., (Fairbanks C-1 NW quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located approximately 0.1 mi east of Laurance Road and Nelson Road intersection, then 50 ft east of road behind grove of trees towards levee, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 19.4 ft, screen openings from 9.4 ft to 13.9 ft and 14.4 ft to 18.9 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 5, 2001 to current year.

DATUM.--Elevation of land-surface datum is 504.74 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.58 ft above land surface datum.

REMARKS.--Observation well drilled March 12, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-11.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.74 ft below land-surface datum, September 17-18, 2003; lowest, 13.51 ft below land-surface datum, April 4-12, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 11.51 ft below land-surface datum, July 25, 27 and 28; lowest, 13.51 ft below land-surface datum, April 4-12.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.58	---	13.14	13.30	---	13.47	13.49	12.73	12.30	11.94	11.55	11.87
2	12.59	13.06	---	13.30	---	13.47	13.49	12.69	12.29	11.91	11.56	11.87
3	12.60	13.06	---	13.30	---	13.47	13.49	12.65	12.29	11.89	11.55	11.88
4	12.62	---	13.16	13.34	---	13.47	13.50	12.62	12.28	11.86	11.56	11.89
5	12.63	---	13.14	---	---	13.47	13.50	12.58	12.27	11.83	11.58	11.91
6	---	---	13.14	---	13.43	13.48	13.50	12.56	12.25	11.80	11.61	11.92
7	---	13.13	13.14	---	13.40	13.48	13.50	12.53	12.24	11.79	11.63	11.94
8	12.67	13.14	13.15	13.36	13.40	13.48	13.50	12.51	12.23	11.74	11.65	11.97
9	---	13.15	13.18	13.37	13.41	13.48	13.50	12.49	12.23	11.70	11.66	11.98
10	---	13.15	---	---	13.41	13.48	13.50	12.48	12.22	11.70	11.67	11.99
11	---	---	---	---	13.46	13.48	13.51	12.46	12.23	11.69	11.68	12.01
12	12.74	13.16	---	---	---	13.49	13.50	12.44	12.23	11.68	11.71	12.01
13	---	13.16	13.23	---	13.46	13.49	13.49	12.42	12.23	11.65	11.71	12.03
14	---	13.14	---	13.38	13.46	13.49	13.48	12.41	12.22	11.64	11.71	12.04
15	12.79	13.15	13.23	13.36	13.47	13.49	13.47	12.41	12.22	11.62	11.72	12.05
16	12.80	---	13.23	13.38	---	13.49	13.46	12.40	12.21	11.60	11.73	12.06
17	12.83	---	---	13.36	---	13.50	13.44	12.39	12.21	11.60	11.73	12.06
18	12.84	13.13	13.24	13.36	---	13.49	13.43	12.38	12.20	11.59	11.73	12.07
19	12.84	13.12	---	13.36	---	13.49	13.42	12.36	12.19	11.57	11.74	12.09
20	12.87	---	---	13.36	13.48	13.48	13.42	12.35	12.17	11.56	11.75	12.12
21	---	---	13.26	13.36	13.45	13.48	13.41	12.33	12.14	11.55	11.75	12.14
22	12.92	13.11	13.23	13.36	13.45	13.48	13.40	12.32	12.12	11.53	11.77	12.13
23	12.92	13.09	13.27	13.37	13.48	13.48	13.38	12.31	12.10	11.52	11.76	12.13
24	---	13.08	---	13.37	13.47	13.49	13.31	12.30	12.07	11.52	11.78	12.12
25	12.96	13.11	13.28	13.41	13.47	13.49	13.22	12.29	12.05	11.51	11.80	12.16
26	12.95	---	13.27	---	13.47	13.48	13.10	12.28	12.03	11.52	11.81	12.17
27	12.96	13.13	13.27	13.41	13.47	13.48	12.99	12.28	12.01	11.51	11.84	12.15
28	12.98	13.13	13.30	13.39	13.47	13.48	12.91	12.28	11.99	11.51	11.81	12.14
29	13.00	---	---	13.39	---	13.49	12.84	12.29	11.98	11.52	11.81	12.17
30	---	---	13.31	13.39	---	13.49	12.78	12.29	11.97	11.53	11.83	12.17
31	---	---	13.30	13.41	---	13.49	---	12.29	---	11.54	11.85	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644402147182601. Local number, FD00200222AAAA1004.

LOCATION.--Lat 64°44′02″, Long 147°18′26″, in NE$^{1}/_{4}$ NE$^{1}/_{4}$ NE$^{1}/_{4}$ sec. 22, T.2 S., R.2 E., (Fairbanks C-1 NW quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located approximately 25 ft southeast of southeast corner of Laurance Road and Treaty Street intersection, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 15.0 ft, screen opening from 10.1 ft to 14.6 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 13, 2001 to current year.

DATUM.--Elevation of land-surface datum is 498.14 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.29 ft above land surface datum.

REMARKS.--Observation well drilled April 10, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-12.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.51 ft below land-surface datum, August 3, 2003; lowest, lowest, 8.36 ft below land-surface datum, November 2-3, 2004.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 5.80 ft below land-surface datum, July 18-19, 2005; lowest, 8.36 ft below land-surface datum, November 2-3, 2004.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7.66	8.32	7.80	8.10	8.04	8.09	8.09	6.98	6.89	5.94	6.15	6.54
2	7.68	8.34	7.81	8.11	8.05	8.09	8.09	6.96	6.84	5.94	6.18	6.57
3	7.71	8.30	7.82	8.11	8.06	8.10	8.10	6.93	6.79	5.94	6.21	6.60
4	7.73	8.23	7.83	8.12	8.07	8.09	8.11	6.92	6.75	5.93	6.24	6.64
5	7.76	8.17	7.83	8.12	8.08	8.09	8.11	6.92	6.74	5.89	6.28	6.68
6	7.78	8.12	7.84	8.10	8.07	8.10	8.11	6.92	6.73	5.90	6.30	6.72
7	7.81	8.07	7.86	8.07	8.07	8.10	8.11	6.93	6.73	5.88	6.30	6.75
8	7.83	8.04	7.89	8.05	8.07	8.09	8.10	6.94	6.74	5.85	6.33	6.74
9	7.85	8.00	7.92	8.04	8.08	8.10	8.09	6.95	6.75	5.84	6.34	6.72
10	7.87	7.97	7.94	8.03	8.08	8.09	8.07	6.96	6.77	5.82	6.36	6.75
11	7.90	7.93	7.96	8.03	8.09	8.10	8.05	6.97	6.80	5.84	6.38	6.75
12	7.92	7.88	7.98	8.03	8.09	8.11	8.03	6.97	6.78	5.86	6.37	6.76
13	7.93	7.83	8.00	8.05	8.09	8.10	8.00	6.97	6.74	5.85	6.35	6.80
14	7.96	7.78	8.01	8.07	8.09	8.09	7.97	6.96	6.72	5.85	6.34	6.80
15	7.98	7.74	8.01	8.08	8.10	8.07	7.94	6.95	6.71	5.87	6.33	6.82
16	8.00	7.72	8.01	8.08	8.10	8.06	7.92	6.92	6.68	5.89	6.30	6.83
17	8.02	7.70	8.02	8.07	8.10	8.08	7.91	6.88	6.65	5.89	6.27	6.85
18	8.04	7.68	8.00	8.06	8.10	8.07	7.90	6.81	6.61	5.80	6.28	6.88
19	8.05	7.68	8.01	8.05	8.10	8.05	7.91	6.78	6.46	5.80	6.30	6.90
20	8.07	7.68	8.02	8.05	8.09	8.05	7.92	6.76	6.34	5.82	6.31	6.94
21	8.09	7.69	8.00	8.04	8.09	8.06	7.93	6.76	6.27	5.83	6.33	6.94
22	8.12	7.69	7.99	8.04	8.09	8.06	7.86	6.76	6.21	5.85	6.36	6.92
23	8.13	7.69	8.00	8.05	8.09	8.08	7.76	6.76	6.19	5.89	6.37	6.89
24	8.15	7.69	8.03	8.06	8.09	8.09	7.61	6.78	6.17	5.94	6.39	6.89
25	8.18	7.71	8.04	8.05	8.09	8.09	7.48	6.80	6.16	5.98	6.41	6.96
26	8.20	7.74	8.04	8.05	8.09	8.08	7.36	6.81	6.16	6.02	6.42	6.95
27	8.22	7.76	8.05	8.04	8.09	8.08	7.26	6.82	6.16	6.06	6.43	6.93
28	8.24	7.78	8.07	8.04	8.09	8.08	7.15	6.85	6.18	6.10	6.45	6.95
29	8.26	7.80	8.09	8.04	---	8.09	7.07	6.88	6.20	6.12	6.46	6.98
30	8.28	7.82	8.09	8.03	---	8.09	7.01	6.91	6.20	6.14	6.48	6.99
31	8.30	---	8.09	8.04	---	8.09	---	6.91	---	6.16	6.51	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644403147112901. Local number, FD00200317CDDD1005.

LOCATION.--Lat 64°44′03″, Long 147°11′29″, in SE$^{1}/_{4}$ SE$^{1}/_{4}$ SW$^{1}/_{4}$ sec. 17, T.2 S., R.3 E., (Fairbanks C-1 NE quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located approximately 2.2 mi east of gate at gravel road from U.S. Army Corps of Engineers office, then just beyond powerlines north of gravel road, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. pvc casing, depth 20.0 ft, screen opening from 14.9 ft to 19.9 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 5, 2001 to current year.

DATUM.--Elevation of land-surface datum is 503.44 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.64 ft above land surface datum.

REMARKS.--Observation well drilled September 7, 1994 by the U.S. Army Corps of Engineers and designated as USAP-2.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 1.80 ft below land-surface datum, September 13, 2003; lowest, 11.08 ft below land-surface datum, May 1, 2 and 17, 2002.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 7.70 ft below land-surface datum, September 30; lowest, 10.71 ft below land-surface datum, April 24.

DEPTH BELOW LAND SURFACE (WATER LEVEL in FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.34	8.78	9.08	9.52	9.91	10.23	10.47	10.54	9.63	8.55	8.28	8.46
2	8.20	8.60	9.16	9.53	9.94	10.24	10.49	10.48	9.54	8.48	8.28	8.43
3	8.17	8.52	9.29	9.52	9.96	10.24	10.47	10.50	9.50	8.45	8.25	8.43
4	8.19	8.89	9.20	9.62	9.96	10.23	10.51	10.51	9.45	8.42	8.29	8.43
5	8.19	8.89	9.21	9.61	9.93	10.26	10.46	10.49	9.35	8.37	8.33	8.41
6	8.24	8.88	9.21	9.64	9.94	10.24	10.50	10.49	9.31	8.35	8.35	8.39
7	8.37	8.81	9.22	9.63	9.97	10.25	10.50	10.48	9.33	8.32	8.36	8.46
8	8.32	8.83	9.26	9.62	9.94	10.24	10.50	10.44	9.31	8.27	8.36	8.38
9	8.33	8.86	9.29	9.66	9.98	10.29	10.51	10.37	9.29	8.22	8.36	8.36
10	8.38	8.87	9.32	9.68	10.02	10.23	10.54	10.35	9.28	8.19	8.38	8.32
11	8.48	8.94	9.32	9.69	10.07	10.35	10.56	10.33	9.27	8.18	8.41	8.27
12	8.45	8.92	9.33	9.70	10.05	10.34	10.54	10.27	9.23	8.16	8.40	8.27
13	8.47	8.92	9.31	9.70	10.04	10.35	10.52	10.23	9.15	8.16	8.40	8.27
14	8.56	8.89	9.36	9.70	10.04	10.33	10.56	10.22	9.11	8.15	8.41	8.21
15	8.50	8.93	9.31	9.71	10.12	10.30	10.51	10.23	9.12	8.14	8.44	8.19
16	8.52	9.04	9.33	9.74	10.08	10.36	10.51	10.17	9.11	8.16	8.46	8.18
17	8.56	9.01	9.35	9.73	10.10	10.39	10.53	10.16	9.08	8.17	8.44	8.17
18	8.49	8.99	9.31	9.74	10.11	10.38	10.52	10.04	9.06	8.14	8.48	8.17
19	8.50	8.97	9.44	9.76	10.13	10.36	10.55	10.01	9.02	8.11	8.49	8.17
20	8.57	9.05	9.47	9.77	10.13	10.37	10.57	10.03	8.87	8.13	8.51	8.13
21	8.61	9.07	9.36	9.73	10.15	10.37	10.54	9.98	8.71	8.11	8.52	8.07
22	8.61	9.05	9.24	9.76	10.13	10.39	10.53	9.88	8.75	8.11	8.50	8.01
23	8.55	9.03	9.40	9.82	10.18	10.42	10.55	9.87	8.76	8.13	8.50	7.92
24	8.60	9.01	9.55	9.84	10.17	10.38	10.56	9.86	8.74	8.16	8.54	7.94
25	8.61	9.13	9.42	9.85	10.18	10.39	10.56	9.70	8.73	8.15	8.56	7.90
26	8.61	9.13	9.43	9.85	10.18	10.37	10.61	9.59	8.70	8.19	8.57	7.80
27	8.64	9.09	9.44	9.85	10.22	10.41	10.56	9.64	8.68	8.19	8.52	7.75
28	8.66	9.11	9.56	9.86	10.20	10.42	10.56	9.65	8.66	8.21	8.49	7.77
29	8.65	9.17	9.53	9.88	---	10.48	10.56	9.66	8.66	8.24	8.52	7.71
30	8.79	9.17	9.52	9.85	---	10.46	10.49	9.63	8.65	8.26	8.53	7.70
31	8.79	---	9.55	9.90	---	10.43	---	9.64	---	8.28	8.53	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644408147162001. Local number, FD00200214DDDA1003.

LOCATION.--Lat 64°44′08″, Long 147°16′20″, in SE$^1/_4$ SE$^1/_4$ SE$^1/_4$ sec. 14, T.2 S., R.2 E., (Fairbanks C-1 NW quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located 10 ft off shoulder of northeast corner of Anton Road and Seavy Road intersection, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 15.2 ft, screen opening from 10.2 ft to 15.2 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 5, 2001 to current year.

DATUM.--Elevation of land-surface datum is 501.44 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 1.78 ft above land surface datum.

REMARKS.--Observation well drilled June 7, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-10.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.69 ft below land-surface datum, September 8, 2003; lowest, 11.05 ft below land-surface datum, March 11-14 and April 4-9, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 9.15 ft below land-surface datum, July 20-24; lowest, 11.05 ft below land-surface datum, March 11-14 and April 4-9, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.30	10.82	10.73	10.94	10.98	11.03	11.03	10.24	9.88	9.49	9.27	9.61
2	10.32	10.84	10.74	10.92	10.98	11.03	11.03	10.20	9.87	9.44	9.28	9.62
3	10.33	10.84	10.75	10.94	10.98	11.03	11.04	10.16	9.86	9.41	9.29	9.62
4	10.34	10.87	10.75	10.95	10.99	11.03	11.04	10.13	9.84	9.38	9.30	9.64
5	10.36	10.87	10.75	10.96	10.99	11.03	11.04	10.10	9.83	9.35	9.32	9.66
6	10.38	10.87	10.75	10.96	10.99	11.03	11.04	10.08	9.82	9.33	9.35	9.67
7	10.40	10.87	10.76	10.96	10.99	11.04	11.04	10.06	9.82	9.31	9.36	9.69
8	10.42	10.86	10.77	10.96	10.99	11.03	11.04	10.04	9.82	9.28	9.38	9.73
9	10.44	10.85	10.78	10.96	11.00	11.03	11.03	10.03	9.82	9.26	9.39	9.76
10	10.45	10.84	10.80	10.96	11.00	11.03	11.02	10.02	9.83	9.24	9.41	9.77
11	10.47	10.84	10.81	10.95	11.01	11.04	11.01	10.01	9.85	9.22	9.42	9.79
12	10.49	10.82	10.82	10.95	11.01	11.04	11.00	10.00	9.85	9.21	9.45	9.79
13	10.51	10.80	10.83	10.95	11.01	11.05	10.98	9.99	9.83	9.20	9.45	9.79
14	10.53	10.78	10.84	10.96	11.01	11.04	10.97	9.99	9.82	9.19	9.45	9.81
15	10.55	10.77	10.85	10.97	11.01	11.03	10.95	9.98	9.82	9.18	9.46	9.82
16	10.56	10.76	10.86	10.97	11.02	11.03	10.93	9.97	9.82	9.18	9.47	9.83
17	10.58	10.74	10.86	10.98	11.02	11.04	10.91	9.96	9.82	9.18	9.45	9.84
18	10.60	10.73	10.86	10.98	11.02	11.03	10.91	9.94	9.81	9.17	9.46	9.85
19	10.61	10.72	10.88	10.98	11.02	11.03	10.90	9.92	9.79	9.16	9.47	9.86
20	10.63	10.71	10.89	10.98	11.02	11.02	10.90	9.90	9.75	9.15	9.47	9.87
21	10.64	10.71	10.89	10.98	11.02	11.02	10.89	9.89	9.70	9.15	9.48	9.89
22	10.66	10.70	10.88	10.98	11.02	11.02	10.86	9.87	9.66	9.15	9.50	9.89
23	10.67	10.70	10.89	10.98	11.03	11.02	10.81	9.87	9.63	9.15	9.49	9.89
24	10.69	10.70	10.90	10.98	11.03	11.03	10.71	9.86	9.60	9.15	9.50	9.88
25	10.71	10.70	10.90	10.98	11.03	11.03	10.63	9.85	9.58	9.17	9.53	9.90
26	10.72	10.70	10.91	10.99	11.03	11.02	10.55	9.85	9.56	9.18	9.54	9.90
27	10.74	10.71	10.91	10.99	11.03	11.02	10.48	9.84	9.54	9.19	9.55	9.89
28	10.75	10.71	10.92	10.99	11.03	11.02	10.40	9.85	9.54	9.21	9.55	9.89
29	10.77	10.72	10.93	10.99	---	11.03	10.34	9.86	9.53	9.23	9.55	9.91
30	10.79	10.73	10.93	10.99	---	11.03	10.28	9.87	9.52	9.25	9.57	9.91
31	10.80	---	10.94	10.99	---	11.03	---	9.88	---	9.26	9.59	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644423147124601. Local number, FD00200318DABC1006.

LOCATION.--Lat 64°44'23", Long 147°12'46", in NW$^1/_4$ NE$^1/_4$ SE$^1/_4$ sec. 18, T.2 S., R.3 E., (Fairbanks C-1 NE quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located in Chena River Recreation Area, North Pole. From recreation area entrance station, well is approximately 0.8 mi southeast on dirt road from levee followed by 0.4 mi northeast on intersecting dirt road. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 20.0 ft, screen opening from 14.9 ft to 19.9 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 5, 2001 to current year.

DATUM.--Elevation of land-surface datum is 501.54 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 6.41 ft above land surface datum.

REMARKS.--Observation well drilled September 9, 1994 by the U.S. Army Corps of Engineers and designated as USAP-3.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.72 ft below land-surface datum, September 24, 2003; lowest, 11.47 ft below land-surface datum, April 14-23, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 9.34 ft below land-surface datum, August 3-7; lowest, 11.47 ft below land-surface datum, April 14-23.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.20	10.55	10.87	11.07	11.23	11.34	11.43	10.97	10.39	9.96	9.35	9.58
2	10.21	10.55	10.88	11.08	11.23	11.34	11.43	10.93	10.38	9.94	9.35	9.59
3	10.21	10.56	10.89	11.08	11.24	11.35	11.43	10.91	10.36	9.92	9.34	9.59
4	10.22	10.58	10.90	11.09	11.24	11.35	11.43	10.88	10.35	9.90	9.34	9.60
5	10.22	10.59	10.90	11.10	11.24	11.35	11.44	10.87	10.33	9.87	9.34	9.61
6	10.23	10.61	10.91	11.11	11.25	11.36	11.44	10.85	10.32	9.85	9.34	9.61
7	10.25	10.62	10.91	11.12	11.25	11.36	11.44	10.83	10.31	9.83	9.34	9.63
8	10.26	10.63	10.92	11.12	11.26	11.36	11.44	10.80	10.29	9.80	9.35	9.66
9	10.26	10.65	10.92	11.12	11.26	11.37	11.44	10.78	10.28	9.77	9.35	9.67
10	10.27	10.66	10.93	11.12	11.27	11.37	11.45	10.77	10.26	9.76	9.35	9.67
11	10.29	10.67	10.94	11.13	11.27	11.38	11.45	10.75	10.26	9.72	9.35	9.69
12	10.30	10.69	10.95	11.13	11.27	11.38	11.45	10.73	10.25	9.70	9.36	9.69
13	10.31	10.69	10.95	11.14	11.28	11.39	11.45	10.71	10.24	9.67	9.36	9.71
14	10.33	10.71	10.96	11.15	11.28	11.39	11.45	10.69	10.23	9.65	9.36	9.72
15	10.34	10.72	10.97	11.15	11.29	11.39	11.46	10.68	10.22	9.62	9.37	9.72
16	10.35	10.73	10.98	11.15	11.30	11.39	11.46	10.66	10.20	9.60	9.38	9.72
17	10.37	10.75	10.98	11.16	11.30	11.40	11.46	10.64	10.20	9.59	9.39	9.73
18	10.37	10.75	10.98	11.16	11.30	11.40	11.46	10.62	10.19	9.57	9.39	9.73
19	10.38	10.76	10.99	11.17	11.31	11.40	11.46	10.60	10.18	9.55	9.40	9.75
20	10.40	10.78	11.00	11.17	11.31	11.39	11.46	10.58	10.17	9.53	9.41	9.77
21	10.41	10.79	11.01	11.18	11.31	11.39	11.46	10.56	10.14	9.51	9.42	9.78
22	10.42	10.80	11.01	11.19	11.32	11.40	11.46	10.55	10.13	9.49	9.44	9.77
23	10.43	10.81	11.02	11.19	11.32	11.40	11.45	10.53	10.11	9.47	9.45	9.78
24	10.44	10.81	11.03	11.19	11.32	11.41	11.44	10.52	10.10	9.46	9.46	9.78
25	10.46	10.82	11.03	11.20	11.32	11.41	11.41	10.49	10.07	9.44	9.49	9.81
26	10.47	10.83	11.03	11.20	11.33	11.41	11.34	10.47	10.05	9.42	9.50	9.82
27	10.48	10.85	11.04	11.21	11.33	11.41	11.24	10.46	10.03	9.41	9.53	9.79
28	10.49	10.85	11.05	11.21	11.34	11.42	11.14	10.44	10.01	9.39	9.53	9.79
29	10.50	10.86	11.06	11.22	---	11.42	11.07	10.43	10.00	9.39	9.53	9.81
30	10.52	10.87	11.06	11.22	---	11.42	11.02	10.42	9.98	9.37	9.54	9.82
31	10.53	---	11.07	11.22	---	11.42	---	10.40	---	9.36	9.56	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644435147141901. Local number, FD00200213ADAD1007.

LOCATION.--Lat 64°44′35″, Long 147°14′19″, in NE$^{1}/_{4}$ SE$^{1}/_{4}$ NE$^{1}/_{4}$ sec. 13, T.2 S., R.2 E., (Fairbanks C-1 NE quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located south on Gordon Road from the intersection with Lyle Road, south of shoulder where road veers west, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 19.15 ft, screen opening from 14.2 ft to 18.7 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 13, 2001 to current year.

DATUM.--Elevation of land-surface datum is 502.24 ft above NGVD of 1929 (revised; levels by U.S. Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.40 ft above land surface datum.

REMARKS.--Observation well drilled April 6, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-8S.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.20 ft below land-surface datum, September 24, 2003; lowest, 13.34 ft below land-surface datum, April 10-12, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 11.34 ft below land-surface datum, July 29-30; lowest, 13.34 ft below land-surface datum, April 10-12.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.30	12.70	12.91	13.08	13.18	13.26	13.32	12.70	12.14	11.82	11.35	11.68
2	12.31	12.71	12.91	13.07	13.19	13.26	13.32	12.66	12.13	11.80	11.35	11.68
3	12.32	12.71	12.92	13.08	13.19	13.26	13.32	12.63	12.12	11.78	11.35	11.69
4	12.32	12.73	12.93	13.09	13.19	13.26	13.32	12.60	12.12	11.76	11.35	11.70
5	12.34	12.75	12.93	13.10	13.19	13.26	13.32	12.57	12.10	11.74	11.37	11.71
6	12.35	12.76	12.93	13.11	13.19	13.27	13.32	12.54	12.09	11.72	11.39	11.72
7	12.37	12.77	12.94	13.11	13.19	13.27	13.33	12.52	12.08	11.70	11.40	11.73
8	12.38	12.78	12.94	13.12	13.19	13.27	13.33	12.48	12.07	11.67	11.42	11.76
9	12.39	12.79	12.95	13.12	13.20	13.27	13.33	12.46	12.06	11.64	11.42	11.76
10	12.40	12.80	12.95	13.12	13.20	13.27	13.33	12.43	12.06	11.63	11.43	11.77
11	12.42	12.82	12.96	13.13	13.20	13.28	13.33	12.41	12.06	11.60	11.44	11.78
12	12.43	12.82	12.97	13.13	13.21	13.28	13.33	12.39	12.05	11.58	11.46	11.79
13	12.44	12.83	12.97	13.13	13.21	13.29	13.33	12.37	12.04	11.56	11.47	11.80
14	12.46	12.83	12.98	13.13	13.21	13.29	13.33	12.36	12.03	11.53	11.47	11.81
15	12.48	12.84	12.99	13.14	13.22	13.29	13.32	12.35	12.03	11.51	11.48	11.82
16	12.49	12.85	12.99	13.14	13.22	13.29	13.31	12.33	12.02	11.49	11.50	11.83
17	12.50	12.86	13.00	13.14	13.22	13.29	13.31	12.32	12.02	11.48	11.51	11.83
18	12.51	12.87	13.00	13.15	13.23	13.30	13.29	12.30	12.01	11.46	11.51	11.84
19	12.52	12.87	13.01	13.15	13.23	13.30	13.29	12.29	12.00	11.45	11.53	11.85
20	12.53	12.87	13.02	13.15	13.23	13.29	13.28	12.27	11.99	11.43	11.54	11.87
21	12.55	12.88	13.02	13.15	13.23	13.29	13.28	12.26	11.97	11.42	11.54	11.89
22	12.56	12.88	13.01	13.15	13.24	13.30	13.27	12.24	11.96	11.40	11.57	11.88
23	12.57	12.88	13.03	13.16	13.24	13.30	13.26	12.23	11.95	11.39	11.56	11.88
24	12.58	12.88	13.04	13.16	13.24	13.30	13.21	12.22	11.93	11.38	11.58	11.87
25	12.60	12.88	13.04	13.16	13.24	13.30	13.16	12.20	11.91	11.36	11.60	11.91
26	12.61	12.89	13.05	13.17	13.25	13.30	13.07	12.18	11.90	11.36	11.61	11.91
27	12.62	12.90	13.05	13.17	13.25	13.31	12.97	12.17	11.88	11.35	11.64	11.89
28	12.64	12.90	13.06	13.17	13.25	13.31	12.87	12.16	11.86	11.35	11.62	11.89
29	12.65	12.90	13.07	13.17	---	13.31	12.80	12.15	11.85	11.34	11.63	11.91
30	12.67	12.91	13.07	13.18	---	13.31	12.75	12.15	11.84	11.34	11.65	11.92
31	12.68	---	13.08	13.18	---	13.31	---	12.14	---	11.35	11.66	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644435147141902. Local number, FD00200213ADAD2007.

LOCATION.--Lat 64°44′35″, Long 147°14′19″, in NE$^{1}/_{4}$ SE$^{1}/_{4}$ NE$^{1}/_{4}$ sec. 13, T.2 S., R.2 E., (Fairbanks C-1 NE quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located 0.3 miles south on Gordon Road from the intersection with Lyle Road, south of shoulder where road veers west, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 64.39 ft, screen opening from 59.5 ft to 64.0 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 13, 2001 to current year.

DATUM.--Elevation of land-surface datum is 502.54 ft above NGVD of 1929 (revised; levels by U.S. Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.16 ft above land surface datum.

REMARKS.--Observation well drilled April 6, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-8D.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 10.52 ft below land-surface datum, September 24, 2003; lowest, 13.67 ft below land-surface datum, April 12, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 11.70 ft below land-surface datum, July 27-August 4; lowest, 13.67 ft below land-surface datum, April 12.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	12.62	13.02	13.23	13.40	13.51	13.59	13.64	13.03	12.47	12.17	11.70	12.02
2	12.63	13.03	13.24	13.39	13.51	13.60	13.64	12.99	12.47	12.15	11.70	12.02
3	12.63	13.03	13.24	13.40	13.52	13.60	13.64	12.95	12.46	12.13	11.70	12.03
4	12.64	13.06	13.25	13.41	13.52	13.59	13.65	12.92	12.45	12.11	11.70	12.04
5	12.66	13.08	13.25	13.42	13.52	13.60	13.64	12.89	12.44	12.09	11.72	12.05
6	12.67	13.09	13.25	13.43	13.52	13.60	13.65	12.87	12.43	12.06	11.74	12.06
7	12.69	13.10	13.26	13.43	13.53	13.60	13.65	12.84	12.42	12.04	11.74	12.08
8	12.70	13.11	13.26	13.43	13.52	13.60	13.65	12.82	12.41	12.02	11.76	12.10
9	12.71	13.12	13.27	13.44	13.53	13.61	13.65	12.79	12.40	11.99	11.76	12.11
10	12.72	13.13	13.27	13.44	13.53	13.60	13.65	12.77	12.39	11.97	11.77	12.11
11	12.74	13.14	13.28	13.45	13.54	13.61	13.66	12.75	12.39	11.95	11.78	12.13
12	12.75	13.15	13.28	13.45	13.54	13.62	13.66	12.72	12.39	11.93	11.80	12.13
13	12.76	13.16	13.29	13.45	13.54	13.62	13.65	12.71	12.38	11.90	11.81	12.15
14	12.78	13.16	13.30	13.45	13.55	13.62	13.65	12.69	12.38	11.88	11.82	12.16
15	12.80	13.17	13.30	13.46	13.55	13.62	13.64	12.68	12.37	11.86	11.83	12.16
16	12.80	13.18	13.31	13.46	13.56	13.63	13.63	12.66	12.37	11.84	11.84	12.17
17	12.82	13.18	13.32	13.46	13.56	13.63	13.63	12.65	12.36	11.83	11.85	12.17
18	12.83	13.18	13.32	13.46	13.56	13.63	13.62	12.64	12.36	11.81	11.86	12.18
19	12.84	13.19	13.33	13.47	13.56	13.63	13.62	12.62	12.35	11.80	11.87	12.19
20	12.86	13.19	13.34	13.47	13.57	13.62	13.62	12.61	12.34	11.78	11.88	12.22
21	12.88	13.20	13.34	13.47	13.57	13.62	13.60	12.59	12.32	11.76	11.89	12.23
22	12.89	13.20	13.33	13.48	13.57	13.63	13.60	12.58	12.31	11.75	11.91	12.22
23	12.90	13.20	13.35	13.48	13.58	13.63	13.58	12.57	12.29	11.74	11.91	12.22
24	12.91	13.20	13.36	13.49	13.58	13.63	13.54	12.55	12.27	11.73	11.92	12.22
25	12.93	13.21	13.36	13.49	13.58	13.63	13.48	12.53	12.26	11.72	11.94	12.25
26	12.94	13.21	13.37	13.49	13.58	13.63	13.40	12.51	12.24	11.71	11.96	12.26
27	12.95	13.21	13.37	13.50	13.59	13.63	13.30	12.51	12.23	11.70	11.98	12.23
28	12.96	13.22	13.38	13.50	13.59	13.63	13.20	12.50	12.21	11.70	11.97	12.23
29	12.97	13.22	13.39	13.50	---	13.64	13.13	12.49	12.20	11.70	11.97	12.26
30	13.00	13.23	13.39	13.50	---	13.64	13.07	12.48	12.19	11.70	11.99	12.26
31	13.01	---	13.39	13.51	---	13.63	---	12.48	---	11.70	12.01	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644435147172001. Local number, FD00200214ACBC1002.

LOCATION.--Lat 64°44′35″, Long 147°17′20″, in NW$^{1}/_{4}$ SW$^{1}/_{4}$ NE$^{1}/_{4}$ sec. 14, T.2 S., R.2 E., (Fairbanks C-1 NW quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located 25 ft off shoulder of southeast corner of Newby Road and Newby Park intersection, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 16.9 ft, screen opening from 11.9 ft to 16.4 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 12, 2001 to current year.

DATUM.--Elevation of land-surface datum is 497.04 ft above NGVD of 1929 (revised; levels by U.S. Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.56 ft above land surface datum.

REMARKS.--Observation well drilled April 8, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-9.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.96 ft below land-surface datum, August 26, 2002; lowest, 8.94 ft below land-surface datum, November 4-6, 2004.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 7.58 ft below land-surface datum, July 19-20; lowest, 8.94 ft below land-surface datum, November 4-6.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.50	8.90	8.76	8.89	8.89	8.91	8.91	8.39	7.99	7.80	7.78	8.08
2	8.51	8.91	8.76	8.89	8.89	8.91	8.91	8.36	7.99	7.77	7.80	8.09
3	8.52	8.91	8.77	8.90	8.90	8.91	8.91	8.32	7.97	7.75	7.81	8.10
4	8.54	8.93	8.78	8.90	8.90	8.91	8.91	8.27	7.96	7.73	7.83	8.11
5	8.55	8.93	8.78	8.90	8.90	8.91	8.92	8.23	7.94	7.70	7.85	8.12
6	8.56	8.93	8.78	8.90	8.89	8.92	8.92	8.20	7.94	7.69	7.86	8.14
7	8.58	8.92	8.78	8.90	8.89	8.92	8.92	8.18	7.98	7.67	7.87	8.15
8	8.60	8.92	8.79	8.89	8.89	8.91	8.91	8.16	8.08	7.65	7.89	8.18
9	8.61	8.90	8.80	8.89	8.89	8.92	8.91	8.14	8.10	7.63	7.90	8.18
10	8.62	8.90	8.81	8.89	8.89	8.91	8.90	8.13	8.11	7.62	7.91	8.19
11	8.64	8.89	8.82	8.89	8.90	8.91	8.89	8.12	8.13	7.61	7.93	8.20
12	8.65	8.87	8.83	8.89	8.91	8.93	8.88	8.11	8.13	7.61	7.94	8.21
13	8.66	8.85	8.84	8.89	8.90	8.93	8.86	8.11	8.12	7.61	7.95	8.22
14	8.68	8.83	8.85	8.89	8.91	8.92	8.84	8.11	8.12	7.61	7.95	8.23
15	8.70	8.82	8.85	8.89	8.91	8.91	8.82	8.10	8.12	7.60	7.96	8.24
16	8.70	8.80	8.85	8.89	8.91	8.91	8.80	8.09	8.13	7.61	7.97	8.24
17	8.72	8.78	8.86	8.89	8.91	8.91	8.79	8.07	8.12	7.60	7.96	8.25
18	8.73	8.77	8.86	8.89	8.91	8.91	8.78	8.04	8.12	7.59	7.96	8.26
19	8.74	8.76	8.87	8.89	8.91	8.91	8.78	8.02	8.04	7.58	7.97	8.27
20	8.75	8.76	8.88	8.89	8.91	8.90	8.78	8.01	8.01	7.58	7.97	8.28
21	8.76	8.75	8.87	8.88	8.91	8.90	8.77	7.99	7.98	7.59	7.98	8.29
22	8.77	8.75	8.86	8.88	8.91	8.90	8.73	7.98	7.96	7.59	7.99	8.30
23	8.78	8.73	8.86	8.89	8.91	8.91	8.66	7.97	7.94	7.60	7.98	8.28
24	8.79	8.73	8.88	8.89	8.91	8.91	8.58	7.97	7.92	7.61	7.99	8.28
25	8.81	8.73	8.88	8.90	8.91	8.90	8.51	7.97	7.91	7.63	8.00	8.30
26	8.82	8.73	8.87	8.89	8.91	8.90	8.45	7.96	7.89	7.64	8.01	8.31
27	8.83	8.73	8.87	8.89	8.92	8.90	8.44	7.96	7.88	7.69	8.02	8.29
28	8.84	8.73	8.88	8.89	8.91	8.90	8.45	7.97	7.87	7.72	8.03	8.30
29	8.85	8.74	8.89	8.89	---	8.90	8.44	7.97	7.87	7.74	8.04	8.30
30	8.87	8.76	8.89	8.89	---	8.91	8.41	7.99	7.87	7.75	8.05	8.30
31	8.88	---	8.89	8.89	---	8.91	---	8.00	---	7.77	8.06	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644444147143901. Local number, FD00200213AACD1005.

LOCATION.--Lat 64°44′44″, Long 147°14′39″, in SW$^{1}/_{4}$ NE$^{1}/_{4}$ NE$^{1}/_{4}$ sec. 13, T.2 S., R.2 E., (Fairbanks C-1 NE quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located approximately 0.2 mi south on Silver Street from the intersection with Lyle Road, then 15 ft south of road, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 17.15 ft, screen opening from 12.4 ft to 16.9 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 13, 2001 to current year.

DATUM.--Elevation of land-surface datum is 500.34 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.29 ft above land surface datum.

REMARKS.--Observation well drilled April 8, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-7.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.74 ft below land-surface datum, September 24, 2003; lowest, 11.83 ft below land-surface datum, April 8-13, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 9.89 ft below land-surface datum, July 27-29 and August 1-3; lowest, 11.83 ft below land-surface datum, April 8-13.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.82	11.21	11.39	11.57	11.68	11.77	11.81	11.20	10.64	10.33	9.89	10.23
2	10.83	11.22	11.40	11.56	11.68	11.77	11.81	11.15	10.63	10.32	9.89	10.23
3	10.84	11.22	11.41	11.57	11.69	11.77	11.81	11.12	10.62	10.29	9.89	10.24
4	10.84	11.25	11.42	11.58	11.69	11.77	11.82	11.08	10.61	10.28	9.90	10.25
5	10.86	11.26	11.42	11.59	11.69	11.77	11.82	11.05	10.60	10.25	9.91	10.26
6	10.86	11.27	11.42	11.59	11.69	11.78	11.82	11.03	10.59	10.23	9.93	10.27
7	10.88	11.28	11.42	11.60	11.69	11.78	11.82	11.01	10.58	10.21	9.95	10.28
8	10.90	11.29	11.42	11.60	11.69	11.78	11.82	10.99	10.57	10.18	9.96	10.31
9	10.91	11.30	11.43	11.60	11.70	11.78	11.82	10.96	10.56	10.16	9.97	10.31
10	10.92	11.31	11.44	11.61	11.70	11.78	11.83	10.94	10.56	10.13	9.98	10.32
11	10.94	11.32	11.45	11.61	11.71	11.79	11.83	10.92	10.56	10.11	10.00	10.34
12	10.95	11.33	11.45	11.61	11.71	11.79	11.83	10.90	10.56	10.09	10.01	10.34
13	10.96	11.33	11.46	11.61	11.71	11.80	11.82	10.88	10.55	10.07	10.02	10.35
14	10.98	11.33	11.47	11.62	11.72	11.80	11.82	10.87	10.54	10.05	10.03	10.37
15	11.00	11.34	11.47	11.62	11.72	11.80	11.81	10.85	10.54	10.03	10.04	10.37
16	11.00	11.35	11.48	11.62	11.74	11.80	11.80	10.84	10.54	10.01	10.05	10.37
17	11.02	11.36	11.48	11.63	11.74	11.80	11.79	10.82	10.53	10.00	10.06	10.38
18	11.03	11.36	11.49	11.63	11.74	11.81	11.79	10.81	10.53	9.99	10.07	10.39
19	11.04	11.36	11.49	11.63	11.74	11.80	11.78	10.79	10.52	9.97	10.08	10.40
20	11.05	11.36	11.51	11.63	11.75	11.80	11.78	10.77	10.50	9.96	10.09	10.42
21	11.07	11.37	11.51	11.63	11.75	11.80	11.77	10.75	10.49	9.94	10.10	10.43
22	11.08	11.37	11.51	11.64	11.75	11.80	11.77	10.73	10.47	9.93	10.12	10.43
23	11.09	11.37	11.51	11.64	11.75	11.80	11.74	10.72	10.45	9.92	10.12	10.42
24	11.10	11.37	11.53	11.65	11.76	11.80	11.69	10.71	10.44	9.91	10.13	10.42
25	11.12	11.37	11.53	11.65	11.76	11.81	11.62	10.69	10.42	9.90	10.15	10.45
26	11.13	11.38	11.53	11.65	11.76	11.80	11.54	10.67	10.41	9.90	10.16	10.46
27	11.14	11.38	11.54	11.66	11.77	11.80	11.46	10.66	10.39	9.89	10.19	10.43
28	11.15	11.39	11.55	11.66	11.77	11.80	11.38	10.65	10.38	9.89	10.18	10.43
29	11.16	11.39	11.55	11.66	---	11.81	11.31	10.65	10.37	9.89	10.18	10.45
30	11.18	11.40	11.56	11.66	---	11.81	11.25	10.65	10.36	9.90	10.20	10.46
31	11.20	---	11.56	11.66	---	11.81	---	10.64	---	9.90	10.21	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644446147120901. Local number, FD00200317BBCA1001.

LOCATION.--Lat 64°44'46", Long 147°12'09", in SW¼ NW¼ NW¼ sec. 17, T.2 S., R.3 E., (Fairbanks C-1 NE quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located in Chena River Recreation Area, North Pole. From recreation area entrance station, well is approximately 0.8 mi southeast on dirt road from levee followed by 0.8 mi northeast on intersecting dirt road. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 15.2 ft, screen opening from 10.1 ft to 15.1 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 05, 2001 to current year.

DATUM.---Elevation of land-surface datum is 497.64 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 6.20 ft above land surface datum.

REMARKS.--Observation well drilled September 9, 1994 by the U.S. Army Corps of Engineers and designated as USAP-4.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 0.52 ft below land-surface datum, August 1, 2003; lowest, 11.81 ft below land-surface datum, April 27-28, 2002.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 7.84 ft below land-surface datum, July 22-23; lowest, 11.50 ft below land-surface datum, April 21-24.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.71	10.07	10.44	10.77	11.01	11.22	11.39	10.82	9.52	8.60	8.05	8.69
2	9.71	10.07	10.45	10.77	11.02	11.22	11.39	10.75	9.50	8.57	8.09	8.70
3	9.71	10.05	10.46	10.77	11.03	11.23	11.40	10.67	9.48	8.52	8.10	8.70
4	9.72	10.11	10.48	10.79	11.04	11.24	11.41	10.60	9.45	8.47	8.11	8.72
5	9.72	10.12	10.49	10.81	11.05	11.24	11.41	10.53	9.42	8.40	8.16	8.73
6	9.73	10.14	10.50	10.82	11.05	11.25	11.41	10.47	9.39	8.35	8.20	8.74
7	9.76	10.14	10.50	10.82	11.06	11.25	11.41	10.42	9.36	8.30	8.23	8.77
8	9.77	10.15	10.52	10.83	11.06	11.25	11.42	10.37	9.33	8.24	8.26	8.80
9	9.77	10.17	10.52	10.84	11.07	11.27	11.42	10.32	9.30	8.17	8.27	8.79
10	9.79	10.18	10.54	10.84	11.08	11.27	11.43	10.27	9.26	8.13	8.29	8.81
11	9.80	10.20	10.55	10.85	11.09	11.28	11.44	10.22	9.25	8.07	8.32	8.82
12	9.82	10.20	10.57	10.86	11.09	11.29	11.44	10.18	9.23	8.02	8.34	8.84
13	9.82	10.21	10.57	10.86	11.10	11.30	11.44	10.15	9.21	7.97	8.35	8.86
14	9.85	10.22	10.58	10.88	11.11	11.31	11.45	10.11	9.19	7.94	8.36	8.87
15	9.86	10.23	10.59	10.88	11.12	11.31	11.46	10.08	9.17	7.91	8.38	8.87
16	9.87	10.25	10.60	10.89	11.13	11.31	11.46	10.05	9.15	7.88	8.41	8.87
17	9.88	10.28	10.62	10.89	11.13	11.33	11.46	10.02	9.13	7.88	8.42	8.87
18	9.89	10.28	10.61	10.90	11.14	11.33	11.46	10.00	9.10	7.88	8.44	8.88
19	9.89	10.29	10.63	10.90	11.15	11.33	11.47	9.96	9.08	7.87	8.45	8.90
20	9.92	10.31	10.65	10.91	11.15	11.34	11.48	9.92	9.06	7.87	8.47	8.93
21	9.93	10.32	10.66	10.92	11.16	11.34	11.48	9.88	9.01	7.85	8.49	8.93
22	9.94	10.33	10.64	10.93	11.17	11.35	11.48	9.84	8.95	7.84	8.52	8.89
23	9.95	10.35	10.66	10.93	11.18	11.35	11.50	9.81	8.89	7.84	8.52	8.87
24	9.95	10.35	10.69	10.94	11.18	11.35	11.46	9.77	8.83	7.86	8.54	8.86
25	9.98	10.36	10.70	10.96	11.18	11.35	11.39	9.72	8.79	7.87	8.57	8.90
26	9.98	10.38	10.70	10.97	11.20	11.36	11.31	9.67	8.74	7.88	8.59	8.86
27	10.00	10.40	10.71	10.97	11.20	11.36	11.20	9.65	8.71	7.90	8.62	8.79
28	10.00	10.41	10.72	10.99	11.21	11.36	11.10	9.62	8.68	7.93	8.62	8.78
29	10.01	10.42	10.74	10.99	---	11.37	11.01	9.59	8.65	7.96	8.62	8.77
30	10.04	10.44	10.75	11.00	---	11.37	10.92	9.57	8.63	7.99	8.64	8.75
31	10.05	---	10.76	11.01	---	11.38	---	9.54	---	8.02	8.67	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644450147131201. Local number, FD00200318ABBD1005.

LOCATION.--Lat 64°44'50", Long 147°13'12", in NW$^{1}/_{4}$ NW$^{1}/_{4}$ NE$^{1}/_{4}$ sec. 18, T.2 S., R.3 E., (Fairbanks C-1 NE quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located in Chena River Recreation Area, North Pole. From recreation area entrance station, well is approximately 0.3 mi southeast on dirt road from levee. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. pvc casing, depth 24.8 ft, screen opening from 19.7 ft to 24.7 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; Submersible pressure transducer/electronic data logger from October 13, 2001 to current year.

DATUM.--Elevation of land-surface datum is 502.44 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 5.39 ft above land surface datum.

REMARKS.--Observation well drilled September 9, 1994 by the U.S. Army Corps of Engineers and designated as USAP-5.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 11.13 ft below land-surface datum, September 24, 2003; lowest, 14.91 ft below land-surface datum, April 10-11, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 12.77 ft below land-surface datum, August 3-4; lowest, 14.91 ft below land-surface datum, April 10-11.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	13.76	14.08	14.36	14.55	14.69	14.79	14.87	14.31	13.65	13.28	12.78	13.13
2	13.76	14.09	14.37	14.56	14.70	14.79	14.87	14.26	13.64	13.27	12.78	13.13
3	13.77	14.09	14.38	14.56	14.70	14.80	14.87	14.24	13.63	13.26	12.77	13.13
4	13.78	14.12	14.39	14.57	14.71	14.80	14.88	14.21	13.61	13.24	12.77	13.14
5	13.78	14.13	14.39	14.57	14.71	14.80	14.87	14.17	13.60	13.22	12.79	13.15
6	13.79	14.14	14.39	14.58	14.71	14.80	14.88	14.13	13.59	13.20	12.80	13.16
7	13.81	14.15	14.40	14.59	14.72	14.81	14.88	14.11	13.58	13.18	12.81	13.17
8	13.82	14.16	14.41	14.59	14.72	14.80	14.89	14.08	13.56	13.15	12.82	13.20
9	13.83	14.18	14.41	14.59	14.72	14.81	14.89	14.06	13.54	13.13	12.83	13.20
10	13.84	14.19	14.42	14.59	14.73	14.80	14.89	14.05	13.53	13.11	12.84	13.21
11	13.85	14.20	14.42	14.60	14.73	14.83	14.89	14.03	13.53	13.09	12.84	13.22
12	13.86	14.21	14.43	14.60	14.73	14.83	14.90	14.01	13.52	13.06	12.86	13.22
13	13.87	14.22	14.44	14.61	14.74	14.83	14.89	13.98	13.51	13.03	12.87	13.24
14	13.88	14.23	14.45	14.61	14.74	14.83	14.89	13.97	13.50	13.01	12.88	13.25
15	13.90	14.23	14.45	14.62	14.75	14.83	14.88	13.95	13.49	12.98	12.89	13.25
16	13.91	14.25	14.46	14.62	14.75	14.84	14.88	13.93	13.49	12.97	12.91	13.26
17	13.91	14.26	14.47	14.63	14.76	14.84	14.88	13.89	13.47	12.95	12.92	13.26
18	13.92	14.27	14.47	14.63	14.76	14.84	14.88	13.88	13.47	12.93	12.92	13.27
19	13.93	14.28	14.48	14.64	14.77	14.85	14.88	13.86	13.46	12.92	12.94	13.28
20	13.95	14.29	14.49	14.64	14.77	14.84	14.88	13.84	13.45	12.90	12.95	13.30
21	13.96	14.30	14.49	14.65	14.77	14.84	14.88	13.82	13.43	12.88	12.96	13.31
22	13.97	14.31	14.48	14.66	14.77	14.85	14.88	13.80	13.42	12.86	12.99	13.30
23	13.98	14.31	14.50	14.66	14.78	14.86	14.87	13.79	13.41	12.85	12.99	13.30
24	13.99	14.32	14.50	14.67	14.77	14.86	14.84	13.77	13.39	12.84	13.00	13.29
25	14.01	14.32	14.50	14.67	14.77	14.86	14.79	13.75	13.37	12.82	13.03	13.33
26	14.01	14.33	14.51	14.68	14.78	14.86	14.63	13.72	13.35	12.81	13.04	13.33
27	14.02	14.34	14.52	14.68	14.78	14.86	14.42	13.71	13.34	12.80	13.06	13.30
28	14.03	14.35	14.53	14.68	14.78	14.87	14.33	13.70	13.33	12.79	13.06	13.30
29	14.04	14.35	14.53	14.68	---	14.87	14.34	13.69	13.31	12.79	13.06	13.33
30	14.06	14.36	14.54	14.68	---	14.86	14.32	13.67	13.30	12.79	13.08	13.33
31	14.07	---	14.55	14.69	---	14.86	---	13.66	---	12.78	13.10	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644454147151701. Local number, FD00200213ABBB1006.

LOCATION.--Lat 64°44'54", Long 147°15'17", in NW$^1/_4$ NW$^1/_4$ NE$^1/_4$ sec. 13, T.2 S., R.2 E., (Fairbanks C-1 NW quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located approximately 30 ft southeast of intersection of Nelson Rd and Lyle Rd, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 17.9 ft, screen openings from 12.6 to 17.6 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic datalogger from October 12, 2001 to current year.

DATUM.--Elevation of land-surface datum is 497.94 ft above NGVD of 1929 (revised; levels by U.S. Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.79 ft above land surface datum.

REMARKS.--Observation well drilled April 8, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-6.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 7.53 ft below land-surface datum, September 18-19, 2003; lowest, 10.35 ft below land-surface datum, April 4-12, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured: 8.46 ft below land-surface datum, July 25-26; lowest, 10.35 ft below land-surface datum, April 4-12.

DEPTH BELOW LAND SURFACE (WATER LEVEL)(FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.42	9.80	9.95	10.12	10.22	10.29	10.34	9.67	9.14	8.86	8.49	8.85
2	9.43	9.81	9.96	10.11	10.22	10.29	10.34	9.63	9.13	8.83	8.50	8.86
3	9.44	9.82	9.97	10.13	10.23	10.29	10.34	9.59	9.12	8.81	8.50	8.86
4	9.45	9.84	9.97	10.13	10.23	10.29	10.34	9.55	9.11	8.79	8.51	8.87
5	9.46	9.85	9.98	10.14	10.23	10.29	10.34	9.53	9.10	8.77	8.53	8.88
6	9.47	9.87	9.98	10.15	10.23	10.30	10.34	9.50	9.09	8.74	8.55	8.89
7	9.49	9.87	9.98	10.15	10.24	10.30	10.34	9.48	9.08	8.72	8.57	8.90
8	9.50	9.88	9.98	10.15	10.24	10.31	10.35	9.46	9.08	8.69	8.58	8.93
9	9.50	9.90	9.99	10.16	10.24	10.31	10.35	9.44	9.07	8.67	8.59	8.93
10	9.52	9.90	9.99	10.16	10.24	10.31	10.35	9.42	9.07	8.65	8.60	8.94
11	9.54	9.91	10.00	10.16	10.25	10.31	10.35	9.41	9.08	8.62	8.62	8.95
12	9.55	9.92	10.00	10.16	10.25	10.32	10.34	9.39	9.07	8.60	8.64	8.96
13	9.56	9.91	10.02	10.17	10.25	10.32	10.33	9.37	9.07	8.58	8.65	8.97
14	9.58	9.91	10.02	10.17	10.25	10.32	10.33	9.35	9.06	8.57	8.66	8.98
15	9.59	9.91	10.03	10.17	10.26	10.32	10.31	9.34	9.06	8.55	8.67	8.98
16	9.59	9.92	10.04	10.18	10.26	10.32	10.30	9.33	9.06	8.54	8.69	8.99
17	9.61	9.92	10.04	10.18	10.26	10.33	10.30	9.31	9.06	8.53	8.70	8.99
18	9.62	9.92	10.05	10.18	10.27	10.33	10.29	9.28	9.05	8.52	8.70	9.00
19	9.63	9.92	10.05	10.18	10.27	10.33	10.27	9.26	9.04	8.51	8.72	9.01
20	9.64	9.93	10.06	10.19	10.27	10.32	10.27	9.25	9.02	8.50	8.73	9.03
21	9.65	9.93	10.07	10.19	10.27	10.32	10.26	9.23	8.99	8.48	8.73	9.04
22	9.67	9.93	10.07	10.19	10.28	10.32	10.25	9.21	8.98	8.48	8.75	9.04
23	9.68	9.93	10.07	10.19	10.28	10.32	10.21	9.20	8.96	8.47	8.75	9.03
24	9.69	9.93	10.08	10.20	10.28	10.33	10.14	9.19	8.94	8.47	8.76	9.02
25	9.71	9.93	10.08	10.20	10.28	10.32	10.07	9.18	8.93	8.46	8.78	9.05
26	9.72	9.94	10.09	10.21	10.28	10.32	9.99	9.16	8.92	8.46	8.79	9.06
27	9.73	9.94	10.10	10.21	10.29	10.32	9.92	9.16	8.90	8.47	8.81	9.03
28	9.75	9.95	10.10	10.21	10.29	10.32	9.84	9.15	8.89	8.47	8.80	9.03
29	9.75	9.95	10.11	10.21	---	10.32	9.78	9.15	8.88	8.48	8.80	9.05
30	9.77	9.95	10.11	10.22	---	10.33	9.72	9.14	8.88	8.48	8.82	9.05
31	9.79	---	10.12	10.22	---	10.32	---	9.14	---	8.49	8.83	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644528147131201. Local number, FD00200307ACBD1001 51660.

LOCATION.--Lat 64°45'28", long 147°13'12", NW¼ SW¼ NE¼, sec. 7, T.2 S., R.3 E., (Fairbanks D-1), Fairbanks Meridian, 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 ft to 31 ft.

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 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 NWIS.

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, 13.20 ft below land-surface datum September 15, 1976.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 9.05 ft below land-surface datum, July 25-29; lowest, 11.27 ft below land-surface datum, April 15.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	10.28	10.55	10.77	10.95	11.05	11.17	11.24	10.66	9.84	9.47	9.07	9.51
2	10.29	10.56	10.77	10.95	11.06	11.17	11.24	10.60	9.84	9.45	9.08	9.53
3	10.30	10.56	10.78	10.96	11.06	11.17	11.24	10.54	9.83	9.44	9.09	9.54
4	10.30	10.57	10.79	10.97	11.07	11.17	11.24	10.48	9.81	9.42	9.09	9.55
5	10.31	10.58	10.79	10.97	11.07	11.18	11.24	10.42	9.79	9.40	9.10	9.56
6	10.32	10.59	10.80	10.98	11.08	11.17	11.24	10.38	9.78	9.38	9.12	9.57
7	10.32	10.60	10.80	10.98	11.08	11.17	11.24	10.34	9.76	9.36	9.14	9.58
8	10.33	10.61	10.81	10.99	11.09	11.18	11.25	10.31	9.75	9.33	9.16	9.59
9	10.34	10.62	10.81	10.99	11.09	11.18	11.25	10.28	9.73	9.31	9.18	9.60
10	10.35	10.63	10.82	10.98	11.09	11.19	11.25	10.25	9.72	9.28	9.19	9.61
11	10.36	10.64	10.83	10.99	11.09	11.19	11.25	10.22	9.71	9.25	9.21	9.62
12	10.37	10.64	10.83	10.99	11.10	11.20	11.26	10.19	9.71	9.23	9.23	9.63
13	10.37	10.65	10.84	10.99	11.10	11.20	11.26	10.17	9.70	9.20	9.24	9.64
14	10.39	10.65	10.85	11.00	11.11	11.21	11.26	10.14	9.69	9.18	9.26	9.65
15	10.40	10.66	10.86	11.01	11.12	11.21	11.26	10.12	9.68	9.17	9.27	9.65
16	10.40	10.67	10.86	11.01	11.12	11.21	11.26	10.10	9.68	9.14	9.29	9.65
17	10.42	10.67	10.87	11.01	11.12	11.22	11.26	10.08	9.68	9.12	9.30	9.66
18	10.42	10.68	10.87	11.01	11.13	11.22	11.25	10.06	9.67	9.11	9.32	9.66
19	10.43	10.69	10.88	11.02	11.13	11.22	11.25	10.03	9.67	9.10	9.33	9.67
20	10.44	10.70	10.89	11.01	11.13	11.22	11.25	10.01	9.65	9.09	9.35	9.67
21	10.45	10.70	10.89	11.02	11.14	11.22	11.26	9.98	9.63	9.08	9.36	9.68
22	10.46	10.71	10.90	11.02	11.14	11.22	11.26	9.96	9.61	9.07	9.38	9.69
23	10.47	10.71	10.90	11.02	11.15	11.23	11.25	9.93	9.59	9.06	9.39	9.69
24	10.47	10.72	10.90	11.03	11.15	11.23	11.21	9.92	9.57	9.06	9.40	9.68
25	10.48	10.72	10.91	11.03	11.15	11.23	11.11	---	9.54	9.05	9.42	9.68
26	10.49	10.73	10.92	11.04	11.15	11.23	11.00	---	9.53	9.05	9.43	9.68
27	10.50	10.74	10.92	11.04	11.16	11.23	10.90	---	9.51	9.05	9.45	9.67
28	10.51	10.75	10.93	11.04	11.16	11.23	10.84	---	9.50	9.05	9.47	9.65
29	10.52	10.75	10.93	11.05	---	11.23	10.79	9.86	9.49	9.05	9.48	9.64
30	10.52	10.76	10.94	11.05	---	11.23	10.73	9.85	9.48	9.06	9.49	9.63
31	10.53	---	10.95	11.05	---	11.23	---	9.85	---	9.07	9.50	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644531147130801. Local number, FD00200307ACBA1007.

LOCATION.--Lat 64°45′31″, Long 147°13′08″, in NW¼ SW¼ NE¼ sec. 7, T.2 S., R.3 E., (Fairbanks D-1 SE) Fairbanks Meridian, Hydrologic Unit 19040506. Well located approximately 60 feet from bunker door off gravel road near U.S. Army Corps of Engineers' facility south of Chena Lake Recreation Area entrance. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 17.6 ft, screen opening from 7.6 ft to 12.1 ft and 12.6 ft to 17.1 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel February 2001 to current year; submersible pressure transducer/electronic data logger from October 5, 2001 to current year.

DATUM.--Elevation of land-surface datum is 495.84 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.50 feet above land surface datum.

REMARKS.--Observation well drilled March 12, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-4.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 6.46 ft below land-surface datum, August 9, 2003; lowest, 10.75 ft below land-surface datum, April 23-24, 2002.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 8.46 ft below land-surface datum, July 25; lowest, 10.72 ft below land-surface datum, April 11.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.77	10.04	10.24	10.43	10.54	10.64	10.69	10.02	9.22	8.83	8.52	9.01
2	9.77	10.04	10.25	10.43	10.54	10.64	10.69	9.96	9.21	8.81	8.53	9.01
3	9.77	10.02	10.26	10.43	10.55	10.64	10.70	9.89	9.20	8.80	8.54	9.01
4	9.78	10.06	10.27	10.44	10.55	10.64	10.70	9.84	9.17	8.78	8.55	9.03
5	9.79	10.07	10.27	10.45	10.56	10.64	10.70	9.79	9.15	8.75	8.57	9.04
6	9.80	10.08	10.27	10.46	10.54	10.65	10.70	9.75	9.13	8.73	8.60	9.04
7	9.81	10.09	10.28	10.46	10.55	10.65	10.70	9.72	9.11	8.70	8.63	9.06
8	9.82	10.09	10.28	10.46	10.55	10.65	10.71	9.68	9.10	8.67	8.66	9.07
9	9.83	10.10	10.29	10.46	10.56	10.66	10.71	9.65	9.09	8.64	8.67	9.06
10	9.83	10.11	10.30	10.47	10.56	10.66	10.71	9.62	9.08	8.61	8.68	9.07
11	9.85	10.12	10.30	10.47	10.57	10.65	10.71	9.59	9.09	8.59	8.70	9.08
12	9.86	10.12	10.31	10.47	10.58	10.66	10.71	9.56	9.08	8.57	8.72	9.08
13	9.86	10.13	10.32	10.48	10.58	10.67	10.70	9.54	9.08	8.56	8.73	9.10
14	9.88	10.12	10.32	10.48	10.58	10.67	10.70	9.52	9.07	8.54	8.74	9.11
15	9.89	10.13	10.33	10.48	10.59	10.67	10.70	9.50	9.07	8.53	8.76	9.10
16	9.89	10.14	10.33	10.49	10.60	10.67	10.70	9.48	9.07	8.52	8.78	9.11
17	9.91	10.15	10.34	10.49	10.60	10.68	10.70	9.46	9.06	8.52	8.79	9.11
18	9.91	10.16	10.34	10.49	10.60	10.68	10.70	9.42	9.06	8.50	8.80	9.12
19	9.91	10.16	10.35	10.49	10.60	10.68	10.70	9.39	9.03	8.49	8.82	9.12
20	9.93	10.17	10.37	10.49	10.61	10.68	10.70	9.37	9.00	8.49	8.83	9.14
21	9.93	10.18	10.38	10.49	10.61	10.68	10.70	9.35	8.97	8.48	8.85	9.14
22	9.94	10.19	10.36	10.49	10.61	10.68	10.69	9.32	8.95	8.47	8.87	9.12
23	9.95	10.19	10.37	10.50	10.62	10.68	10.62	9.30	8.93	8.47	8.87	9.09
24	9.95	10.19	10.40	10.51	10.62	10.68	10.53	9.29	8.91	8.47	8.88	9.07
25	9.97	10.20	10.40	10.52	10.62	10.68	10.40	9.27	8.90	8.46	8.91	9.11
26	9.98	10.21	10.40	10.52	10.63	10.68	10.34	9.24	8.89	8.47	8.92	9.11
27	9.98	10.22	10.40	10.52	10.63	10.68	10.27	9.23	8.88	8.48	8.94	9.05
28	9.99	10.22	10.41	10.53	10.64	10.68	10.21	9.22	8.88	8.48	8.95	9.05
29	10.00	10.23	10.42	10.53	---	10.68	10.15	9.22	8.88	8.49	8.95	9.04
30	10.01	10.24	10.43	10.53	---	10.69	10.09	9.22	8.88	8.51	8.97	9.03
31	10.03	---	10.43	10.53	---	10.69	---	9.22	---	8.51	8.99	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644547147141801. Local number, FD00200306CCCC1002.

LOCATION.--Lat 64°45′47″, Long 147°14′18″, in SW¼ SW¼ SW¼ sec. 6, T.2 S., R.3 E., (Fairbanks D-1 SE quad), Fairbanks Meridian, Hydrologic Unit 19040506, Well located 0.5 mi on Hurst Road from the intersection with Nelson Road, then 30 ft east of road, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC inner casing, depth 17.4 ft, screen opening from 12.4 ft to 16.9 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel August 2001 to current year; submersible pressure transducer/electronic data logger from October 12, 2001 to current year.

DATUM.--Elevation of land-surface datum is 493.64 ft above NGVD of 1929 (revised; levels by US Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey). Measuring point: top of inner casing 2.61 ft above land surface datum as of June 2nd, 2005.

REMARKS.--Observation well drilled April 11, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-3.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 5.82 ft below land-surface datum, September 18-19, 2002; lowest, 10.15 ft below land-surface datum, April 10-13 and 23, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 7.74 ft below land-surface datum, July 22-27; lowest, 10.15 ft below land-surface datum, April 10-13 and 23.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	9.29	9.52	9.71	9.90	9.99	10.08	10.13	9.27	8.65	8.22	7.81	8.36
2	9.28	9.52	9.72	9.88	10.00	10.08	10.13	9.16	8.64	8.20	7.83	8.37
3	9.28	9.50	9.73	9.90	10.00	10.09	10.13	9.10	8.63	8.18	7.84	8.37
4	9.29	9.54	9.74	9.92	10.01	10.08	10.13	9.11	8.61	8.16	7.85	8.39
5	9.29	9.55	9.74	9.92	10.01	10.09	10.13	9.11	8.59	8.13	7.87	8.40
6	9.30	9.56	9.75	9.93	10.00	10.09	10.13	9.08	8.57	8.10	7.90	8.39
7	9.32	9.57	9.75	9.93	10.00	10.09	10.14	9.06	8.55	8.07	7.93	8.42
8	9.32	9.57	9.75	9.93	10.00	10.09	10.14	9.04	8.53	8.02	7.96	8.45
9	9.32	9.58	9.76	9.93	10.01	10.10	10.14	9.02	8.52	7.98	7.97	8.45
10	9.33	9.59	9.76	9.94	10.02	10.09	10.14	9.00	8.51	7.94	7.99	8.47
11	9.33	9.61	9.77	9.94	10.02	10.09	10.14	8.99	8.51	7.90	8.01	8.48
12	9.35	9.62	9.78	9.94	10.03	10.11	10.15	8.97	8.51	7.87	8.03	8.49
13	9.36	9.62	9.79	9.95	10.03	10.12	10.14	8.96	8.51	7.85	8.04	8.50
14	9.37	9.62	9.80	9.95	10.03	10.12	10.14	8.94	8.49	7.83	8.05	8.51
15	9.38	9.62	9.80	9.95	10.04	10.11	10.14	8.93	8.49	7.81	8.07	8.51
16	9.39	9.63	9.81	9.95	10.05	10.11	10.12	8.92	8.49	7.80	8.09	8.52
17	9.40	9.64	9.82	9.95	10.05	10.13	10.12	8.91	8.48	7.80	8.11	8.53
18	9.40	9.64	9.82	9.96	10.05	10.13	10.12	8.87	8.47	7.79	8.12	8.53
19	9.40	9.65	9.83	9.96	10.06	10.13	10.13	8.84	8.47	7.77	8.14	8.54
20	9.42	9.66	9.84	9.96	10.06	10.11	10.13	8.81	8.44	7.77	8.16	8.56
21	9.42	9.66	9.84	9.95	10.06	10.12	10.13	8.78	8.38	7.75	8.17	8.57
22	9.43	9.67	9.83	9.95	10.06	10.12	10.12	8.76	8.35	7.74	8.20	8.55
23	9.44	9.67	9.84	9.96	10.07	10.13	10.11	8.74	8.32	7.74	8.20	8.54
24	9.44	9.67	9.86	9.97	10.07	10.12	10.05	8.73	8.29	7.74	8.22	8.53
25	9.46	9.68	9.87	9.97	10.07	10.12	9.95	8.70	8.27	7.74	8.25	8.57
26	9.46	9.69	9.87	9.98	10.07	10.11	9.81	8.67	8.26	7.74	8.26	8.56
27	9.47	9.69	9.87	9.98	10.08	10.10	9.70	8.66	8.25	7.74	8.29	8.52
28	9.47	9.70	9.88	9.98	10.08	10.11	9.60	8.65	8.24	7.76	8.29	8.51
29	9.48	9.70	9.89	9.99	---	10.12	9.51	8.65	8.24	7.77	8.30	8.52
30	9.49	9.71	9.90	9.99	---	10.13	9.39	8.65	8.23	7.78	8.32	8.51
31	9.51	---	9.90	9.99	---	10.13	---	8.65	---	7.80	8.34	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644603147131401. Local number, FD00200306DBCA1001.

LOCATION.--Lat 64°46'03", Long 147°13'14", in SW¼ NW¼ SE¼ sec. 06, T.2 S., R.3 E., (Fairbanks D-1 SE quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located 0.6 mi west on turn off to Lake Park in Chena Lakes Recreation Area, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 19.3 ft, screen open from 14.3 ft to 18.8 ft.

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 5, 2001 to current year.

DATUM.--Elevation of land-surface datum is 490.44 ft above NGVD of 1929 (revised; levels by U.S. Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey. Measuring point: top of inner casing 2.57 ft above land surface datum.

REMARKS.--Observation well drilled April 6, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-1.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured 4.81 ft below land-surface datum, September 16-17, 2003; lowest 8.72 ft below land-surface datum, March 12-14, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured 6.73 ft below land-surface datum, July 18-19, 21-24; lowest 8.72 ft below land-surface datum, March 12-14, 2005.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	8.34	8.47	8.52	8.60	8.63	8.69	8.68	8.04	7.25	7.03	6.87	7.44
2	8.33	8.44	8.53	8.60	8.64	8.69	8.68	7.95	7.24	7.02	6.89	7.45
3	8.33	8.43	8.53	8.60	8.65	8.69	8.68	7.87	7.23	7.02	6.91	7.46
4	8.33	8.47	8.53	8.60	8.65	8.68	8.68	7.81	7.19	6.98	6.93	7.47
5	8.34	8.48	8.52	8.60	8.65	8.68	8.68	7.75	7.17	6.96	6.96	7.48
6	8.34	8.48	8.52	8.59	8.64	8.69	8.68	7.71	7.15	6.94	6.98	7.48
7	8.36	8.47	8.53	8.58	8.64	8.69	8.68	7.66	7.14	6.91	7.00	7.49
8	8.36	8.47	8.53	8.58	8.64	8.68	8.68	7.63	7.14	6.88	7.03	7.51
9	8.36	8.48	8.54	8.58	8.65	8.69	8.68	7.59	7.13	6.85	7.04	7.50
10	8.37	8.48	8.55	8.59	8.65	8.68	8.69	7.56	7.13	6.83	7.07	7.50
11	8.38	8.49	8.56	8.59	8.67	8.69	8.70	7.54	7.15	6.81	7.09	7.50
12	8.38	8.49	8.56	8.59	8.67	8.71	8.70	7.51	7.14	6.79	7.11	7.51
13	8.39	8.48	8.56	8.59	8.66	8.71	8.69	7.49	7.14	6.78	7.13	7.52
14	8.40	8.47	8.56	8.59	8.67	8.70	8.69	7.46	7.15	6.77	7.15	7.52
15	8.40	8.47	8.56	8.58	8.67	8.69	8.68	7.44	7.16	6.76	7.17	7.52
16	8.41	8.49	8.56	8.58	8.67	8.69	8.67	7.43	7.17	6.75	7.19	7.52
17	8.41	8.48	8.57	8.58	8.68	8.70	8.67	7.39	7.18	6.75	7.21	7.52
18	8.41	8.48	8.56	8.58	8.68	8.70	8.67	7.34	7.19	6.73	7.22	7.52
19	8.41	8.48	8.58	8.58	8.68	8.69	8.67	7.31	7.13	6.73	7.25	7.52
20	8.42	8.50	8.59	8.58	8.68	8.69	8.67	7.28	7.12	6.74	7.27	7.53
21	8.42	8.50	8.58	8.58	8.68	8.69	8.67	7.25	7.10	6.73	7.29	7.52
22	8.43	8.50	8.56	8.58	8.68	8.69	8.66	7.23	7.08	6.73	7.31	7.50
23	8.42	8.49	8.57	8.60	8.68	8.70	8.62	7.22	7.07	6.73	7.32	7.47
24	8.42	8.49	8.60	8.61	8.69	8.70	8.56	7.20	7.05	6.73	7.33	7.46
25	8.43	8.50	8.58	8.62	8.68	8.69	8.50	7.19	7.04	6.74	7.36	7.48
26	8.43	8.51	8.58	8.62	8.69	8.68	8.43	7.18	7.04	6.75	7.37	7.46
27	8.44	8.52	8.58	8.62	8.69	8.68	8.37	7.19	7.04	6.76	7.39	7.41
28	8.44	8.52	8.59	8.62	8.69	8.68	8.30	7.19	7.04	6.78	7.39	7.39
29	8.44	8.53	8.60	8.62	---	8.69	8.22	7.21	7.05	6.81	7.40	7.37
30	8.45	8.53	8.60	8.62	---	8.68	8.13	7.23	7.07	6.82	7.41	7.34
31	8.46	---	8.60	8.62	---	8.68	---	7.24	---	6.85	7.43	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

644603147151801. Local number, FD00200201DBCB1002.

LOCATION.--Lat 64°46'03", Long 147°15'18", in SW¼ NW¼ SE¼ sec. 1, T.2 S., R.2 E., (Fairbanks D-1 SW quad), Fairbanks Meridian, Hydrologic Unit 19040506. Well located east side of Nelson Road approximately 2.3 mi from Laurance Road. West of Chena Lakes Flood Control Project and Recreational Area, North Pole. Owner: U.S. Army Corps of Engineers.

AQUIFER.--Chena Alluvium of Quaternary age.

WELL CHARACTERISTICS.--Diameter 2-in. PVC casing, depth 19.8 ft, screen openings from 14.8 ft to 19.3 ft

INSTRUMENTATION.--Intermittent measurements by USGS personnel July 2001 to current year; submersible pressure transducer/electronic data logger from October 12, 2001 to current year.

DATUM.--Elevation of land-surface datum is 493.04 ft above NGVD of 1929 (revised; levels by U.S. Army Corps of Engineers, adjusted to 1992 survey of benchmarks by U.S. Coast and Geodetic Survey.). Measuring point: top of inner casing 2.68 ft above land surface datum.

REMARKS.--Observation well drilled April 11, 1995 by the U.S. Army Corps of Engineers and designated as DSAP-2.

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

EXTREMES FOR PERIOD OF RECORD.--Highest water level measured, 8.49 ft below land-surface datum, September 24, 2003; lowest water level measured, 11.92 ft below land surface, Febuary 14-28, March 2-3, 5-6, 11-14, 2005.

EXTREMES FOR CURRENT YEAR.--Highest water level measured, 9.83 ft below land surface, July 25, 2005; lowest water level measured, 11.92 ft below land surface, Febuary 14-28, March 2-3, 5-6, 11-14.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	11.34	11.52	11.67	11.82	11.87	11.91	11.87	11.08	10.44	10.20	9.92	10.45
2	11.33	11.52	11.68	11.79	11.87	11.91	11.87	11.04	10.43	10.20	9.94	10.46
3	11.33	11.51	11.69	11.82	11.88	11.91	11.86	11.00	10.44	10.19	9.96	10.46
4	11.33	11.54	11.70	11.83	11.88	11.90	11.87	10.97	10.43	10.16	9.97	10.47
5	11.34	11.55	11.70	11.84	11.88	11.90	11.87	10.94	10.41	10.15	10.00	10.48
6	11.34	11.56	11.70	11.84	11.87	11.91	11.86	10.91	10.40	10.13	10.03	10.48
7	11.35	11.56	11.70	11.84	11.88	11.90	11.87	10.88	10.38	10.12	10.06	10.49
8	11.36	11.57	11.71	11.84	11.88	11.89	11.87	10.86	10.37	10.10	10.08	10.52
9	11.36	11.58	11.71	11.84	11.89	11.90	11.87	10.83	10.36	10.07	10.09	10.52
10	11.37	11.58	11.72	11.84	11.89	11.89	11.87	10.80	10.35	10.05	10.10	10.53
11	11.38	11.59	11.72	11.85	11.90	11.88	11.87	10.78	10.35	10.03	10.12	10.54
12	11.38	11.60	11.73	11.85	11.90	11.91	11.87	10.75	10.36	10.00	10.15	10.54
13	11.39	11.60	11.74	11.85	11.90	11.91	11.86	10.73	10.35	9.98	10.16	10.56
14	11.40	11.60	11.74	11.85	11.90	11.91	11.86	10.71	10.35	9.95	10.17	10.57
15	11.41	11.60	11.75	11.85	11.90	11.90	11.84	10.69	10.35	9.93	10.19	10.57
16	11.41	11.61	11.75	11.85	11.91	11.90	11.83	10.68	10.36	9.91	10.20	10.57
17	11.42	11.62	11.76	11.85	11.91	11.90	11.82	10.66	10.36	9.90	10.22	10.58
18	11.42	11.63	11.76	11.84	11.91	11.91	11.82	10.64	10.35	9.89	10.24	10.58
19	11.43	11.63	11.77	11.84	11.91	11.90	11.81	10.62	10.36	9.88	10.25	10.59
20	11.44	11.64	11.78	11.85	11.91	11.89	11.81	10.60	10.35	9.87	10.27	10.60
21	11.44	11.64	11.77	11.84	11.91	11.88	11.81	10.57	10.33	9.86	10.28	10.61
22	11.45	11.65	11.76	11.84	11.91	11.88	11.80	10.55	10.31	9.85	10.31	10.60
23	11.45	11.65	11.77	11.85	11.91	11.89	11.76	10.53	10.29	9.84	10.31	10.59
24	11.46	11.64	11.79	11.86	11.91	11.89	11.68	10.52	10.27	9.84	10.32	10.58
25	11.47	11.65	11.79	11.86	11.91	11.88	11.57	10.49	10.25	9.83	10.35	10.61
26	11.47	11.65	11.79	11.86	11.91	11.87	11.44	10.47	10.24	9.84	10.36	10.60
27	11.48	11.66	11.80	11.86	11.91	11.86	11.33	10.46	10.23	9.84	10.39	10.55
28	11.48	11.66	11.81	11.87	11.91	11.86	11.24	10.45	10.22	9.85	10.39	10.54
29	11.49	11.67	11.81	11.87	---	11.87	11.18	10.44	10.21	9.86	10.40	10.54
30	11.50	11.67	11.81	11.87	---	11.88	11.12	10.44	10.20	9.88	10.41	10.52
31	11.51	---	11.82	11.87	---	11.87	---	10.44	---	9.90	10.43	---

YUKON ALASKA—Continued

FAIRBANKS NORTH STAR BOROUGH—Continued

645434147385101. Local number, FB00100113DDBC2001 50673.

LOCATION.--Lat 64°54'34", long 147°38'51", in NW$^1/_4$ SE$^1/_4$ SE$^1/_4$ sec. 13 T.1.S., R.1.W., (Fairbanks D-2 NE quad), Faibanks Meridian, 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: 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, 40.67 ft below land-surface datum, November 3; lowest, 41.59 ft below land-surface datum, March 13-15.

DEPTH BELOW LAND SURFACE (WATER LEVEL) (FEET), WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY HIGHEST WATER LEVEL

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	41.00	40.95	40.83	41.00	41.19	41.38	41.39	41.24	41.03	40.93	40.92	41.10
2	41.11	40.87	40.83	40.99	41.21	41.37	41.36	41.20	41.07	40.89	40.93	41.07
3	40.99	40.67	40.86	40.93	41.24	41.37	41.41	41.11	41.03	40.87	40.92	41.06
4	40.99	40.70	41.01	40.93	41.25	41.33	41.45	41.07	41.01	40.88	40.91	41.08
5	40.97	40.89	41.04	41.03	41.24	41.30	41.44	41.07	40.98	40.89	40.91	41.10
6	40.93	41.00	40.95	41.15	41.14	41.34	41.41	41.09	40.90	40.84	40.95	41.09
7	40.93	40.96	40.89	41.14	41.08	41.37	41.38	41.10	40.89	40.85	40.99	41.09
8	40.99	40.98	40.89	41.08	41.00	41.27	41.38	41.13	40.91	40.85	41.01	41.14
9	40.99	41.03	40.89	41.08	41.01	41.27	41.37	41.18	40.92	40.81	41.02	41.10
10	40.95	40.92	40.91	41.13	41.05	41.28	41.40	41.10	40.92	40.80	41.01	41.09
11	40.97	40.92	40.99	41.16	41.13	41.28	41.45	41.09	40.93	40.80	41.01	41.15
12	40.94	41.02	41.02	41.16	41.24	41.36	41.53	41.09	40.98	40.85	41.05	41.11
13	40.93	40.95	41.02	41.15	41.27	41.51	41.44	41.09	41.01	40.87	41.02	41.11
14	41.02	40.93	41.01	41.08	41.27	41.59	41.42	41.07	41.01	40.89	41.02	41.14
15	41.07	40.91	40.96	41.04	41.26	41.32	41.41	41.10	41.01	40.88	41.06	41.06
16	41.03	40.94	40.92	41.07	41.30	41.30	41.36	41.11	41.02	40.86	41.08	41.03
17	41.03	41.01	40.92	41.12	41.28	41.35	41.32	41.08	41.06	40.86	41.05	41.00
18	41.01	40.92	40.90	41.09	41.21	41.48	41.35	41.05	40.98	40.88	41.01	41.01
19	40.96	40.92	40.90	41.06	41.20	41.51	41.38	41.04	40.95	40.87	41.03	41.03
20	40.98	40.92	41.06	41.05	41.25	41.47	41.37	41.06	40.96	40.87	41.00	41.11
21	40.92	40.96	41.09	41.01	41.26	41.45	41.38	41.07	40.94	40.87	40.99	41.21
22	40.91	41.00	40.75	40.97	41.21	41.46	41.39	41.09	40.89	40.83	41.02	41.08
23	40.83	40.86	40.75	41.01	41.21	41.46	41.39	41.09	40.89	40.83	41.03	41.08
24	40.80	40.78	40.91	41.12	41.26	41.41	41.44	41.08	40.92	40.84	41.02	40.98
25	40.87	40.79	41.14	41.19	41.29	41.31	41.38	41.08	40.94	40.88	41.04	41.01
26	40.85	40.88	41.08	41.19	41.30	41.27	41.35	40.91	40.92	40.91	41.07	41.11
27	40.81	40.92	40.95	41.11	41.32	41.23	41.35	40.88	40.92	40.87	41.12	40.98
28	40.80	40.89	40.97	41.09	41.36	41.25	41.31	40.92	40.91	40.88	41.06	40.93
29	40.78	40.94	41.08	41.09	---	41.28	41.28	40.93	40.92	40.88	41.02	40.94
30	40.79	41.02	41.08	41.13	---	41.37	41.24	40.95	40.95	40.90	41.02	41.01
31	40.91	---	41.02	41.14	---	41.41	---	40.99	---	40.90	41.07	---

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Conversion Factors

Multiply	By	To obtain
	Length	
inch (in.)	2.54×10^{1}	millimeter (mm)
	2.54×10^{-2}	meter (m)
foot (ft)	3.048×10^{-1}	meter (m)
mile (mi)	1.609×10^{0}	kilometer (km)
	Area	
acre	4.047×10^{3}	square meter (m^2)
	4.047×10^{-1}	square hectometer (hm^2)
	4.047×10^{-3}	square kilometer (km^2)
square mile (mi^2)	2.590×10^{0}	square kilometer (km^2)
	Volume	
gallon (gal)	3.785×10^{0}	liter (L)
	3.785×10^{-3}	cubic meter (m^3)
	3.785×10^{0}	cubic decimeter (dm^3)
million gallons (Mgal)	3.785×10^{3}	cubic meter (m^3)
	3.785×10^{-3}	cubic hectometer (hm^3)
cubic foot (ft^3)	2.832×10^{-2}	cubic meter (m^3)
	2.832×10^{1}	cubic decimeter (dm^3)
cubic foot per second per day [(ft^3/s)/d]	2.447×10^{3}	cubic meter (m^3)
	2.447×10^{-3}	cubic hectometer (hm^3)
acre-foot (acre-ft)	1.233×10^{3}	cubic meter (m^3)
	1.233×10^{-3}	cubic hectometer (hm^3)
	1.233×10^{-6}	cubic kilometer (km^3)
	Flow	
cubic foot per second (ft^3/s)	2.832×10^{1}	liter per second (L/s)
	2.832×10^{-2}	cubic meter per second (m^3/s)
	2.832×10^{1}	cubic decimeter per second (dm^3/s)
gallon per minute (gal/min)	6.309×10^{-2}	liter per second (L/s)
	6.309×10^{-5}	cubic meter per second (m^3/s)
	6.309×10^{-2}	cubic decimeter per second (dm^3/s)
million gallons per day (Mgal/d)	4.381×10^{-2}	cubic meter per second (m^3/s)
	4.381×10^{1}	cubic decimeter per second (dm^3/s)
	Mass	
ton (short)	9.072×10^{-1}	megagram (Mg) or metric ton

Temperature in degrees Celsius (°C) may be converted to degrees Fahrenheit (°F) as follows:

°F = (1.8 x °C) + 32