

Water-Data Report 2009

15214000 COPPER RIVER AT MILLION DOLLAR BRIDGE NEAR CORDOVA, AK

Copper River Basin
Lower Copper River Subbasin

LOCATION.--Lat 60°40'18", long 144°44'41" referenced to North American Datum of 1927, in SE ¼ NE ¼ SE ¼ sec.7, T.14 S., R.4 E., Valdez-Cordova Division, AK, Hydrologic Unit 19020104, on downstream side of center span of the Million Dollar Bridge at mile 49 of Copper River Highway and outlet to Miles Lake, about 30 miles upstream from mouth and 36 mi northeast of Cordova (Cordova C-2).

DRAINAGE AREA.--24,200 mi², approximately.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--May 2009 to current. May 2005 to September 2007 (no winter record). June 1988 to September 1995. August 1907 to 1910 (no winter records), gage-height only, published in WSP 372 and June to October 1913 (fragmentary record). Published as "at Miles Glacier", August 1907 to to October 1913.

REVISED RECORDS.--WDR AK-99-1: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 150 ft above sea level from topographic map. Prior to October 1913, non-recording gage near present site at different datums. June 1, 1988 to June 17, 1989, and May 1 to June 8, 2005, non-recording gage at same site and datum. Gage-height values published June 1, 1988 to September 30, 1995 are 100 ft. below gage datum.

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

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated; $\times 10^6$, million]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	---	---	---	---	---	---	---	---	83,300	e122,000	302,000	140,000
2	---	---	---	---	---	---	---	---	85,200	132,000	272,000	129,000
3	---	---	---	---	---	---	---	---	95,400	145,000	237,000	121,000
4	---	---	---	---	---	---	---	---	110,000	158,000	217,000	114,000
5	---	---	---	---	---	---	---	---	124,000	176,000	212,000	111,000
6	---	---	---	---	---	---	---	---	140,000	194,000	219,000	109,000
7	---	---	---	---	---	---	---	---	161,000	211,000	226,000	108,000
8	---	---	---	---	---	---	---	---	182,000	223,000	221,000	103,000
9	---	---	---	---	---	---	---	---	199,000	235,000	200,000	98,800
10	---	---	---	---	---	---	---	---	203,000	246,000	188,000	94,500
11	---	---	---	---	---	---	---	---	209,000	252,000	189,000	97,400
12	---	---	---	---	---	---	---	---	214,000	255,000	187,000	99,400
13	---	---	---	---	---	---	---	---	209,000	259,000	200,000	99,200
14	---	---	---	---	---	---	---	---	192,000	266,000	208,000	93,700
15	---	---	---	---	---	---	---	---	171,000	275,000	174,000	82,900
16	---	---	---	---	---	---	---	---	159,000	282,000	161,000	77,600
17	---	---	---	---	---	---	---	---	158,000	261,000	216,000	78,500
18	---	---	---	---	---	---	---	---	156,000	242,000	237,000	77,300
19	---	---	---	---	---	---	---	---	149,000	227,000	240,000	72,800
20	---	---	---	---	---	---	---	59,700	137,000	217,000	250,000	68,600
21	---	---	---	---	---	---	---	61,700	132,000	211,000	212,000	69,800
22	---	---	---	---	---	---	---	65,000	e130,000	205,000	173,000	79,900
23	---	---	---	---	---	---	---	70,200	e127,000	204,000	160,000	71,000
24	---	---	---	---	---	---	---	70,500	e124,000	193,000	156,000	56,800
25	---	---	---	---	---	---	---	68,400	e121,000	172,000	147,000	56,800
26	---	---	---	---	---	---	---	72,700	e114,000	160,000	137,000	58,400
27	---	---	---	---	---	---	---	86,900	e108,000	165,000	132,000	54,600
28	---	---	---	---	---	---	---	99,300	e106,000	190,000	138,000	47,200
29	---	---	---	---	---	---	---	98,200	e108,000	223,000	151,000	41,800
30	---	---	---	---	---	---	---	92,800	e111,000	256,000	155,000	37,200
31	---	---	---	---	---	---	---	88,100	---	290,000	151,000	---
Total	---	---	---	---	---	---	---	---	4,317,900	6,647,000	6,068,000	2,549,200
Mean	---	---	---	---	---	---	---	---	143,900	214,400	195,700	84,970
Max	---	---	---	---	---	---	---	---	214,000	290,000	302,000	140,000
Min	---	---	---	---	---	---	---	---	83,300	122,000	132,000	37,200
Ac-ft	---	---	---	---	---	---	---	---	8,565,000	13.18 $\times 10^6$	12.04 $\times 10^6$	5,056,000
Cfsm	---	---	---	---	---	---	---	---	5.95	8.86	8.09	3.51
In.	---	---	---	---	---	---	---	---	6.64	10.22	9.33	3.92

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2009, BY WATER YEAR (WY)[#]

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	49,760	18,250	11,920	9,812	8,704	8,882	12,500	53,940	142,500	191,200	170,200	107,400
Max	110,100	25,730	16,970	12,420	9,500	10,030	16,700	86,600	184,900	226,400	195,700	178,400
(WY)	(2007)	(1994)	(1989)	(1989)	(1991)	(1993)	(1993)	(2005)	(2005)	(2005)	(2009)	(1995)
Min	21,190	12,700	10,000	7,823	6,714	6,726	10,170	32,180	126,800	154,300	132,600	55,140
(WY)	(1993)	(1991)	(1991)	(1994)	(1994)	(1994)	(1991)	(1992)	(1991)	(1994)	(1995)	(1992)

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SUMMARY STATISTICS

	Water Years 1988 - 2009 [#]	
Annual mean	63,620	
Highest annual mean	71,490	1990
Lowest annual mean	55,310	1991
Highest daily mean	433,000	Oct 11, 2006
Lowest daily mean	^a 6,500	Feb 13, 1994
Annual seven-day minimum	6,500	Feb 13, 1994
Maximum peak flow	^b 444,000	Oct 11, 2006
Maximum peak stage	152.26	Sep 23, 1995
Annual runoff (ac-ft)	46,090,000	
Annual runoff (cfsm)	2.63	
Annual runoff (inches)	35.72	
10 percent exceeds	177,000	
50 percent exceeds	22,000	
90 percent exceeds	9,000	

[#] See Period of Record; partial years used in monthly statistics

^a Feb. 13 to Mar. 20, 1994

^b From rating curve extended above 210,000 ft³/s

