Water-Data Report 2012

15896000 KUPARUK RIVER NEAR DEADHORSE, AK

Prudhoe Bay Basin
Kuparuk River Subbasin

LOCATION.--Lat 70°16′54″, long 148°57′35″ referenced to North American Datum of 1927, in NE ¼ sec.25, T.11 N., R.12 E., North Slope Borough, AK, Hydrologic Unit 19060401, (Beechey Point B-4 quad), on right bank, 1.8 mi northeast 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.

SURFACE-WATER RECORDS

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.

Suggested citation: U.S. Geological Survey, 2013, Water-resources data for the United States, Water Year 2012: U.S. Geological Survey Water-Data Report WDR-US-2012, site 15896000, accessed at http://wdr.water.usgs.gov/wy2012/pdfs/15896000.2012.pdf

15896000 KUPARUK RIVER NEAR DEADHORSE, AK—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES
[e, estimated]

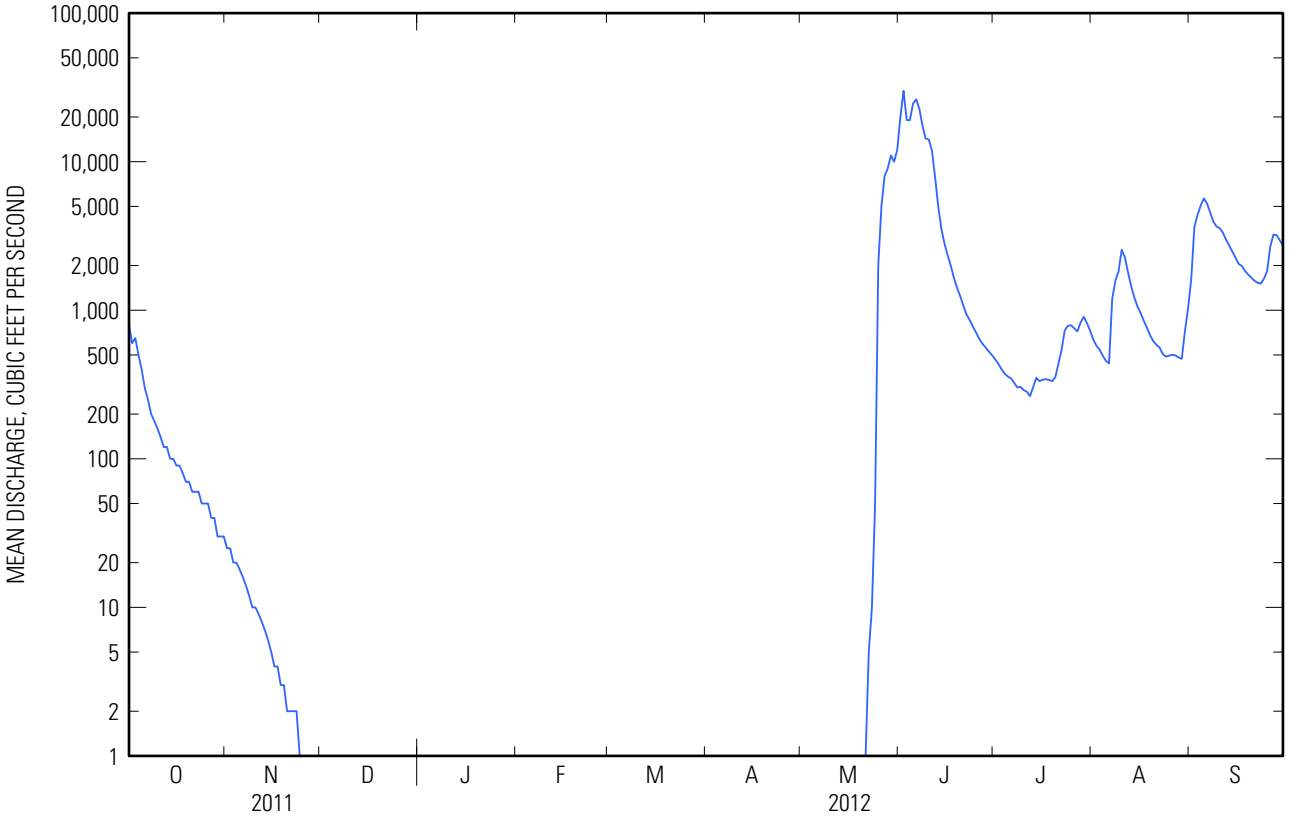
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e800	e25	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e20,000	467	636	1,620
2	e600	e25	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e30,000	436	577	3,650
3	e650	e20	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	19,100	400	544	4,370
4	e500	e20	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	19,000	374	495	5,080
5	e400	e18	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	24,600	358	457	5,660
6	e300	e16	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	26,300	348	439	5,230
7	e250	e14	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	22,700	325	1,190	4,550
8	e200	e12	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	17,400	302	1,580	3,950
9	e180	e10	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	14,300	305	1,820	3,660
10	e160	e10	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	14,100	290	2,550	3,570
11	e140	e9.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	11,800	283	2,280	3,330
12	e120	e8.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	7,780	264	1,800	2,990
13	e120	e7.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	4,950	304	1,450	2,730
14	e100	e6.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	3,490	351	1,220	2,480
15	e100	e5.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	2,780	333	1,060	2,260
16	e90	e4.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	2,330	341	956	2,050
17	e90	e4.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1,970	343	849	1,990
18	e80	e3.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1,630	340	762	1,840
19	e70	e3.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1,400	333	678	1,740
20	e70	e2.0	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	1,230	354	619	1,660
21	e60	e2.0	e0.0	e0.0	e0.0	e0.0	e0.0	e1.0	1,060	437	585	1,580
22	e60	e2.0	e0.0	e0.0	e0.0	e0.0	e0.0	e5.0	929	543	561	1,530
23	e60	e2.0	e0.0	e0.0	e0.0	e0.0	e0.0	e10	854	732	507	1,510
24	e50	e1.0	e0.0	e0.0	e0.0	e0.0	e0.0	e50	771	786	487	1,630
25	e50	e1.0	e0.0	e0.0	e0.0	e0.0	e0.0	e2,000	704	792	495	1,830
26	e50	e1.0	e0.0	e0.0	e0.0	e0.0	e0.0	e5,000	640	755	502	2,680
27	e40	e1.0	e0.0	e0.0	e0.0	e0.0	e0.0	e8,000	593	721	496	3,230
28	e40	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e9,000	560	827	481	3,210
29	e30	e0.0	e0.0	e0.0	e0.0	e0.0	e0.0	e11,000	527	904	471	2,960
30	e30	e0.0	e0.0	e0.0	---	e0.0	e0.0	e10,000	498	820	722	2,730
31	e30	---	e0.0	e0.0	---	e0.0	---	e12,000	---	730	1,030	---
Total	5,520	231.0	0.0	0.0	0.0	0.0	0.0	57,066.0	253,996	14,898	28,299	87,300
Mean	178	7.70	0.00	0.00	0.00	0.00	0.00	1,841	8,467	481	913	2,910
Max	800	25	0.0	0.0	0.0	0.0	0.0	12,000	30,000	904	2,550	5,660
Min	30	0.0	0.0	0.0	0.0	0.0	0.0	0.0	498	264	439	1,510
Med	90	4.5	0.0	0.0	0.0	0.0	0.0	0.0	2,550	358	636	2,730
Ac-ft	10,950	458	0.00	0.00	0.00	0.00	0.00	113,200	503,800	29,550	56,130	173,200
Cfsm	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.59	2.70	0.15	0.29	0.93
In.	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.68	3.02	0.18	0.34	1.04

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1971 - 2012, BY WATER YEAR (WY)#

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	282	26.3	2.79	0.77	0.73	0.73	0.73	1,873	10,040	1,147	1,676	1,507
Max	1,675	174	24.3	10.0	10.0	10.0	10.0	8,877	26,360	3,309	5,229	4,863
(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	260	127	78.2
(WY)	(1975)	(1977)	(1976)	(1976)	(1975)	(1975)	(1975)	(1975)	(1990)	(2007)	(1990)	(2007)

15896000 KUPARUK RIVER NEAR DEADHORSE, AK—Continued

SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1971 - 2012#	
Annual total	465,060.0		447,310.0			
Annual mean	1,274		1,222		1,365	
Highest annual mean					2,304	1982
Lowest annual mean					658	1974
Highest daily mean	49,000	May 31	30,000	Jun 2	100,000	Jun 7, 1978
Lowest daily mean	0.0	Jan 1	0.0	Nov 28	[a]0.0	Feb 1, 1975
Annual seven-day minimum	0.0	Jan 1	0.0	Nov 28	0.0	Feb 1, 1975
Maximum peak flow			b		118,000	Jun 7, 1978
Maximum peak stage					37.60	Jun 7, 1978
Annual runoff (ac-ft)	922,400		887,200		988,800	
Annual runoff (cfsm)	0.407		0.390		0.436	
Annual runoff (inches)	5.53		5.32		5.93	
10 percent exceeds	1,480		2,730		2,720	
50 percent exceeds	2.0		2.0		10	
90 percent exceeds	0.0		0.0		0.0	

See Period of Record; partial years used in monthly statistics
[a] No flow during winter months
[b] Not determined, see highest daily mean