15747000 WULIK RIVER BELOW TUTAK CREEK NEAR KIVALINA, AK

Noatak River-Lisburne Peninsula Basin
Wulik-Kivalina Rivers Subbasin

LOCATION.--Lat 67°52′34″, long 163°40′28″ referenced to North American Datum of 1927, in NW ¼ sec.34, T.29 N., R.22 W., Northwest Arctic Borough, AK, Hydrologic Unit 19050404, (Noatak D-4 quad), on left bank 0.1 mi downstream from the mouth of Tutak Creek and 25 mi northeast of Kivalina.

DRAINAGE AREA.--705 mi^2.

SURFACE-WATER RECORDS

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.

Suggested citation: U.S. Geological Survey, 2012, Water-resources data for the United States, Water Year 2011: U.S. Geological Survey Water-Data Report WDR-US-2011, site 15747000, accessed at http://wdr.water.usgs.gov/wy2011/pdfs/15747000.2011.pdf

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	679	e185	e70	e37	e29	e25	e22	e22	6,420	883	792	734
2	670	e173	e68	e37	e29	e25	e22	e22	7,130	800	749	723
3	727	e163	e65	e36	e29	e25	e22	e22	5,680	1,130	735	712
4	695	e160	e62	e36	e29	e25	e22	e22	6,110	1,180	733	718
5	651	e150	e59	e36	e29	e25	e22	e22	5,860	1,110	768	711
6	615	e148	e56	e36	e28	e25	e22	e22	5,080	1,140	795	671
7	e600	e140	e54	e35	e28	e25	e22	e23	4,720	1,210	972	632
8	e590	e133	e51	e35	e28	e24	e22	e23	4,700	1,110	1,370	599
9	e550	e128	e50	e34	e28	e24	e22	e24	4,160	1,100	1,550	604
10	e520	e120	e49	e34	e28	e24	e22	e24	3,380	1,070	1,490	1,530
11	e490	e117	e48	e33	e28	e24	e22	e25	3,200	1,010	1,330	4,550
12	e470	e110	e47	e33	e27	e24	e22	e26	3,300	1,080	1,750	4,730
13	e430	e108	e46	e33	e27	e24	e22	e27	2,820	1,620	3,790	3,220
14	e420	e104	e45	e33	e27	e24	e22	e28	2,220	1,470	3,470	2,460
15	e400	e101	e44	e33	e27	e24	e22	e30	1,810	1,250	2,610	2,080
16	e380	e98	e43	e32	e27	e24	e22	e32	1,760	1,160	2,030	1,750
17	e360	e96	e43	e32	e27	e24	e22	e60	1,840	1,130	1,670	1,530
18	e350	e95	e42	e32	e27	e23	e22	e150	1,690	1,070	e1,450	1,360
19	e330	e95	e42	e32	e27	e23	e22	e400	1,600	959	e1,300	1,230
20	e310	e94	e41	e32	e26	e23	e22	e1,000	1,830	1,040	e1,200	1,130
21	e300	e94	e41	e31	e26	e23	e22	e4,200	2,070	1,260	e1,100	1,040
22	e290	e91	e40	e31	e26	e23	e22	e11,000	1,740	1,200	e1,000	957
23	e270	e90	e40	e31	e26	e23	e22	30,000	1,910	1,100	e940	885
24	e260	e88	e40	e31	e26	e23	e22	25,100	1,890	1,020	e880	828
25	e250	e85	e39	e30	e26	e23	e22	23,800	1,320	1,050	e820	779
26	e240	e82	e39	e30	e25	e23	e22	20,300	1,190	952	788	731
27	e230	e80	e39	e30	e25	e23	e22	15,600	1,270	865	755	693
28	e220	e78	e38	e30	e25	e23	e22	12,900	1,170	801	714	646
29	e210	e75	e38	e30	---	e23	e22	12,200	1,310	865	676	620
30	e200	e72	e38	e29	---	e23	e22	10,700	1,090	894	669	592
31	e190	---	e37	e29	---	e23	---	5,890	---	828	723	---
Total	12,897	3,353	1,454	1,013	760	737	660	173,694	90,270	33,357	39,619	39,445
Mean	416	112	46.9	32.7	27.1	23.8	22.0	5,603	3,009	1,076	1,278	1,315
Max	727	185	70	37	29	25	22	30,000	7,130	1,620	3,790	4,730
Min	190	72	37	29	25	23	22	22	1,090	800	669	592
Ac-ft	25,580	6,650	2,880	2,010	1,510	1,460	1,310	344,500	179,100	66,160	78,580	78,240
Cfsm	0.59	0.16	0.07	0.05	0.04	0.03	0.03	7.95	4.27	1.53	1.81	1.87
In.	0.68	0.18	0.08	0.05	0.04	0.04	0.03	9.17	4.76	1.76	2.09	2.08

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1985 - 2011, BY WATER YEAR (WY)#

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	525	136	63.8	36.9	25.2	19.6	18.2	2,026	3,109	1,521	2,459	1,655
Max	1,542	299	120	70.0	49.3	39.5	38.8	5,603	6,669	6,144	8,458	3,076
(WY)	(1994)	(2007)	(2007)	(1986)	(1986)	(1991)	(1991)	(2011)	(1989)	(1989)	(1994)	(2002)
Min	132	63.1	28.4	16.9	9.04	8.00	9.00	20.6	500	424	496	283
(WY)	(2009)	(2002)	(2008)	(2009)	(2009)	(2009)	(1992)	(1989)	(2010)	(1999)	(1991)	(2008)

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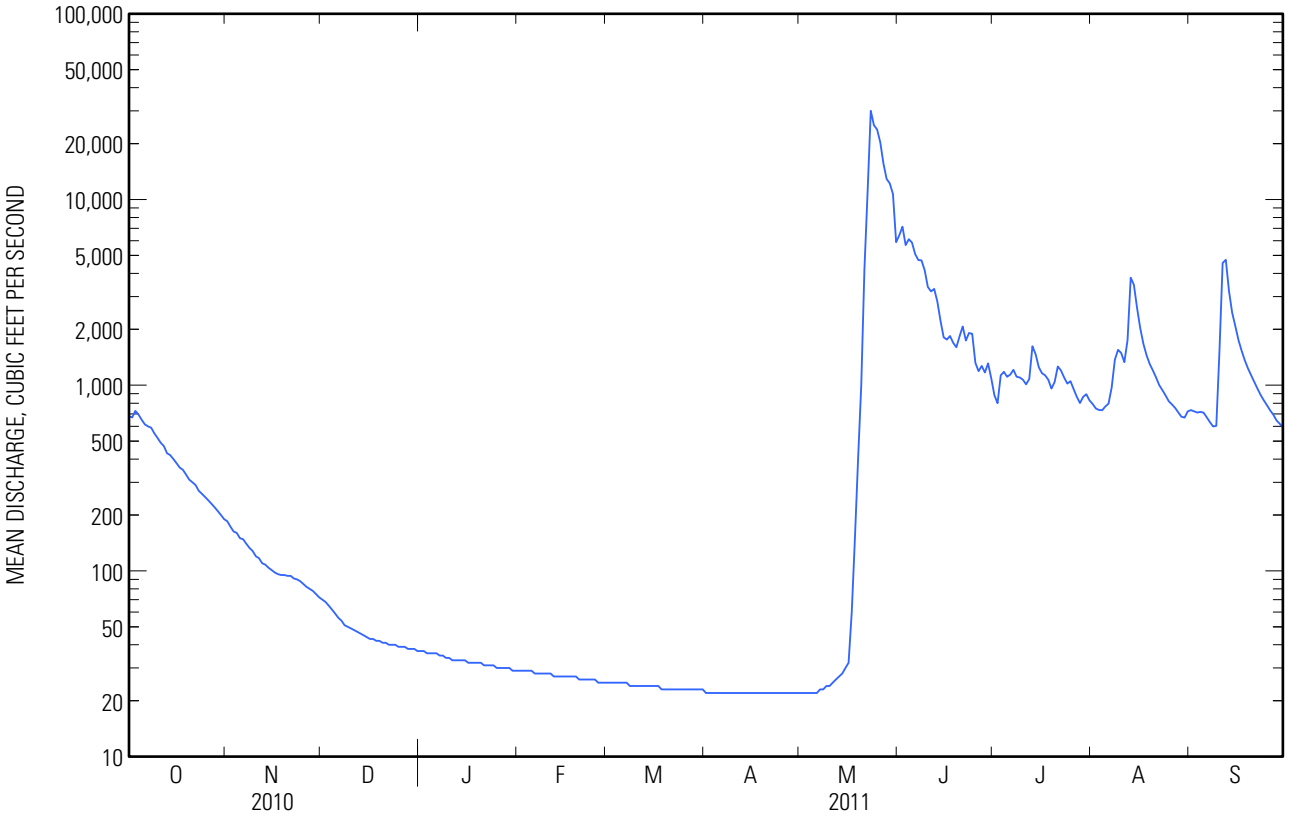
SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1985 - 2011#	
Annual total	167,087		397,259			
Annual mean	458		1,088		970	
Highest annual mean					1,843	1994
Lowest annual mean					460	2010
Highest daily mean	9,400	May 21	30,000	May 23	30,000	May 23, 2011
Lowest daily mean	16	Feb 20	22	Apr 1	8.0	Feb 20, 2009
Annual seven-day minimum	16	Feb 20	22	Apr 1	8.0	Feb 20, 2009
Maximum peak flow			33,900	May 23	38,500	Aug 17, 1994
Maximum peak stage			11.76	May 23	12.21	Aug 17, 1994
Maximum peak stage			[a]12.8	May 22	[a]13.5	May 16, 1999
Annual runoff (ac-ft)	331,400		788,000		703,100	
Annual runoff (cfsm)	0.649		1.54		1.38	
Annual runoff (inches)	8.82		20.96		18.70	
10 percent exceeds	1,300		1,900		2,690	
50 percent exceeds	110		98		130	
90 percent exceeds	16		23		16	

Period of Record; partial year used in monthly statistics
[a] backwater from snow and ice