

Water-Data Report 2009

15861000 JUDY CREEK NEAR NUIQSUT, AK

Barrow Basin
Harrison Bay Subbasin

LOCATION.--Lat 70°13'14", long 151°50'05" referenced to North American Datum of 1927, in NE ¼ NE ¼ SE ¼ sec.15, T.10 N., R.1 E., North Slope Borough, AK, Hydrologic Unit 19060205, (Harrison Bay A-4 quad), on left bank, 6 mi upstream from mouth, and 20 mi west of Nuiqsut.

DRAINAGE AREA.--639 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2004 to September 2009 (discontinued).

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

REMARKS.--Records fair except for estimated daily discharges, which are poor. Winter records may contain periods of ponded water beneath ice cover within the gage pool but with no discernible flow. 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]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e22	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e3.0	e2,400	188	69	197
2	e18	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e1.0	e2,600	175	69	206
3	e14	e0.00	e2,500	163	68	250						
4	e12	e0.00	e2,200	153	68	331						
5	e10	e0.00	e1,900	137	66	314						
6	e9.0	e0.00	e1,800	127	66	265						
7	e8.0	e0.00	e1,700	119	65	231						
8	e7.0	e0.00	1,680	116	65	211						
9	e6.0	e0.00	1,820	110	70	199						
10	e5.0	e0.00	1,450	108	75	182						
11	e4.0	e0.00	1,160	110	79	176						
12	e3.0	e0.00	984	112	81	184						
13	e2.0	e0.00	841	110	81	180						
14	e1.0	e0.00	739	108	81	173						
15	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	660	105	81	165
16	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	601	93	80	159
17	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	541	90	82	155
18	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e1.0	490	85	86	153
19	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e2.0	437	84	88	151
20	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e5.0	394	81	89	149
21	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e20	358	79	90	145
22	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e50	328	75	88	119
23	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e160	304	74	86	e110
24	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e400	280	73	86	e100
25	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e800	261	73	108	e95
26	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e1,000	266	72	119	e90
27	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e1,200	261	70	120	e80
28	e0.00	e0.00	e0.00	e0.00	e0.00	e0.00	e1.0	e1,400	237	70	117	e75
29	e0.00	e0.00	e0.00	e0.00	---	e0.00	e2.0	e1,700	220	71	119	e70
30	e0.00	e0.00	e0.00	e0.00	---	e0.00	e5.0	e2,000	203	70	172	e65
31	e0.00	---	e0.00	e0.00	---	e0.00	---	e2,200	---	70	193	---
Total	121.00	0.00	0.00	0.00	0.00	0.00	8.00	10,942.00	29,615	3,171	2,807	4,980
Mean	3.90	0.00	0.00	0.00	0.00	0.00	0.27	353	987	102	90.5	166
Max	22	0.00	0.00	0.00	0.00	0.00	5.0	2,200	2,600	188	193	331
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	203	70	65	65
Ac-ft	240	0.00	0.00	0.00	0.00	0.00	16	21,700	58,740	6,290	5,570	9,880
Cfsm	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.55	1.54	0.16	0.14	0.26
In.	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.64	1.72	0.18	0.16	0.29

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2005 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	21.6	1.45	0.00	0.00	0.00	0.00	0.05	143	1,169	138	76.1	73.5
Max	51.6	4.30	0.00	0.00	0.00	0.00	0.27	353	1,643	270	133	166
(WY)	(2005)	(2007)	(2005)	(2005)	(2005)	(2005)	(2009)	(2009)	(2005)	(2005)	(2006)	(2009)
Min	1.58	0.00	0.00	0.00	0.00	0.00	0.00	0.00	802	65.4	20.8	13.6
(WY)	(2008)	(2006)	(2005)	(2005)	(2005)	(2005)	(2005)	(2005)	(2008)	(2007)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 2005 - 2009	
Annual total	40,428.00		51,644.00			
Annual mean	110		141		134	
Highest annual mean					174	2005
Lowest annual mean					85.3	2007
Highest daily mean	3,520	May 29	^e 2,600	Jun 2	^e 5,390	Jun 9, 2005
Lowest daily mean	^a 0.00	Jan 1	^b 0.00	Oct 15	^c 0.00	Nov 18, 2004
Annual seven-day minimum	0.00	Jan 1	0.00	Oct 15	0.00	Nov 18, 2004
Maximum peak flow			^d		^d	Jun 9, 2005
Maximum peak stage			^f 25.35	May 27	25.40	Jun 5, 2007
Annual runoff (ac-ft)	80,190		102,400		97,350	
Annual runoff (cfsm)	0.173		0.221		0.210	
Annual runoff (inches)	2.35		3.01		2.86	
10 percent exceeds	169		263		204	
50 percent exceeds	0.00		0.00		0.00	
90 percent exceeds	0.00		0.00		0.00	

^a Jan. 1 to May 21 and Oct. 15 to Dec. 31

^b Oct. 15 to Apr. 27 and May 3 to 17

^c No flow during winter months

^e Estimated during period of ice affected discharge

^d Not determined, occurred during period of backwater from ice and snow. See highest daily mean.

^f Backwater from snow and ice

