

**14046000 NORTH FORK JOHN DAY RIVER AT MONUMENT, OR**

John Day Basin  
North Fork John Day Subbasin

LOCATION.--Lat 44°48'50", long 119°25'50" referenced to North American Datum of 1927, in SE ¼ sec.2, T.9 S., R.27 E., Grant County, OR, Hydrologic Unit 17070202, on right bank, just downstream from entrance to canyon, 0.7 mi downstream from Cottonwood Creek, 0.8 mi west of Monument and at mile 15.3.

DRAINAGE AREA.--2,520 mi<sup>2</sup>, approximately.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--March 1925 to current year. Monthly discharge only for some periods 1925-28, published in WSP 1318.

REVISED RECORDS.--WSP 754: 1932(M). WSP 1448: 1927, 1931(M), 1949.

GAGE.--Water-stage recorder. Datum of gage is 1,959.64 ft above NGVD of 1929. Prior to Nov. 24, 1925, nonrecording gage and Nov. 24, 1925 to Oct. 16, 1928, water-stage recorder at datum 1.10 ft higher. Oct. 17, 1928 to Sept. 30, 1930, water-stage recorder at datum 1.00 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are poor. Very slight regulation by small reservoirs and many small diversions for irrigation upstream from station. Continuous water-quality records for period July 1966 to September 1968 have been collected at this location.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--85 years (water years 1929-2013), 1,297 ft<sup>3</sup>/s, 939,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 33,400 ft<sup>3</sup>/s Jan. 30, 1965, gage height, 18.45 ft, from rating curve extended above 17,000 ft<sup>3</sup>/s; minimum discharge, 6 ft<sup>3</sup>/s occurred during period Nov. 2-13, 1936, result of freezeup; minimum daily, 17 ft<sup>3</sup>/s Dec. 12, 1932.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 5,300 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Apr 5	1430	*5,220	*8.06

Minimum discharge, 49 ft<sup>3</sup>/s, Sept. 1, 2, gage height, 2.45 ft.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**  
**DAILY MEAN VALUES**  
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	77	207	551	e240	e1,000	964	4,280	2,450	1,120	411	83	51
2	77	178	1,110	e220	e1,600	1,610	4,470	2,170	1,050	368	85	50
3	76	164	1,670	e200	e1,500	2,080	4,440	2,030	1,000	331	93	51
4	75	157	1,030	e190	e1,400	1,920	4,250	2,070	960	301	96	58
5	77	148	1,070	e185	e1,300	1,650	4,810	2,160	922	277	84	83
6	79	142	999	e180	e1,250	1,830	4,830	2,230	897	258	78	111
7	82	141	800	e190	1,080	1,900	4,900	2,280	884	246	73	119
8	84	139	665	e192	922	1,650	4,470	2,420	861	230	69	114
9	86	141	573	e199	845	1,430	3,730	2,500	815	217	68	89
10	87	140	527	e200	835	1,350	3,240	2,530	758	201	78	77
11	88	136	562	e205	749	1,410	3,070	2,490	700	186	87	71
12	90	132	553	e207	738	2,060	2,780	2,520	648	173	76	68
13	97	147	515	e210	747	2,760	2,610	2,540	602	165	79	67
14	99	151	373	e215	769	3,350	2,410	2,400	581	162	75	65
15	111	152	340	e220	795	3,730	2,190	2,080	562	158	69	67
16	121	154	424	e225	891	4,070	2,020	1,850	510	151	67	69
17	133	149	444	e230	1,090	3,510	1,800	1,700	471	145	65	67
18	158	161	434	e237	990	2,850	1,660	1,630	446	140	62	77
19	130	184	320	e240	926	2,320	1,700	1,460	456	138	57	88
20	119	193	306	e243	874	2,420	3,630	1,330	552	128	55	94
21	125	211	401	e250	813	3,160	3,640	1,260	585	117	55	94
22	156	311	422	e260	782	2,580	3,270	1,320	575	109	53	87
23	145	267	398	e270	795	2,150	2,870	1,220	542	104	57	85
24	141	227	376	e280	736	1,840	2,570	1,130	521	101	57	93
25	136	248	353	e310	707	1,750	2,410	1,140	599	95	64	124
26	131	286	311	e330	679	1,620	2,390	1,040	687	91	68	148
27	131	235	380	e360	647	1,730	2,520	1,000	698	86	61	165
28	130	189	366	e460	643	2,290	2,670	1,120	632	82	55	171
29	172	224	300	e560	---	3,070	2,770	1,240	518	77	52	193
30	314	252	334	e700	---	3,660	2,790	1,370	457	76	53	352
31	258	---	e333	e800	---	3,970	---	1,280	---	77	52	---
<b>Total</b>	3,785	5,566	17,240	8,808	26,103	72,684	95,190	55,960	20,609	5,401	2,126	3,048
<b>Mean</b>	122	186	556	284	932	2,345	3,173	1,805	687	174	68.6	102
<b>Max</b>	314	311	1,670	800	1,600	4,070	4,900	2,540	1,120	411	96	352
<b>Min</b>	75	132	300	180	643	964	1,660	1,000	446	76	52	50
<b>Ac-ft</b>	7,510	11,040	34,200	17,470	51,780	144,200	188,800	111,000	40,880	10,710	4,220	6,050

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2013, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	159	304	692	959	1,411	2,444	3,648	3,644	1,707	376	132	118
<b>Max</b>	420	1,621	3,374	4,126	6,103	6,456	6,695	8,794	5,412	1,211	345	423
<b>(WY)</b>	(1983)	(1974)	(1965)	(1965)	(1996)	(1983)	(1943)	(1948)	(2011)	(1982)	(1984)	(1984)
<b>Min</b>	58.5	64.5	96.6	75.8	134	345	822	378	259	97.4	36.6	45.2
<b>(WY)</b>	(1937)	(1937)	(1937)	(1937)	(1929)	(1977)	(1968)	(1934)	(1992)	(1973)	(1931)	(1934)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1929 - 2013	
<b>Annual total</b>	404,588		316,520			
<b>Annual mean</b>	1,105		867		1,297	
<b>Highest annual mean</b>					2,618	2011
<b>Lowest annual mean</b>					441	1977
<b>Highest daily mean</b>	8,840	Apr 27	4,900	Apr 7	31,900	Jan 30, 1965
<b>Lowest daily mean</b>	60	Sep 11	50	Sep 2	17	Dec 12, 1932
<b>Annual seven-day minimum</b>	62	Sep 7	52	Aug 28	29	Aug 28, 1931
<b>Annual runoff (ac-ft)</b>	802,500		627,800		939,700	
<b>10 percent exceeds</b>	3,220		2,510		3,730	
<b>50 percent exceeds</b>	400		340		425	
<b>90 percent exceeds</b>	76		77		97	

