



Water-Data Report 2007

**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 upstream. 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.--79 years (water years 1929-2007), 1,287 ft<sup>3</sup>/s, 932,200 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)
Dec 26	1730	(a)	*8.82
Mar 8	0945	*5,460	7.76

Minimum discharge, 43 ft<sup>3</sup>/s part or all of each day Aug. 16-19, gage height, 2.39 ft.

(a) Backwater from ice.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	105	86	197	684	e360	986	2,370	2,520	659	208	59	60
2	105	96	286	630	e340	955	2,220	2,580	634	194	56	59
3	106	137	272	746	e320	961	2,020	2,900	626	184	55	55
4	111	194	197	1,320	e340	1,280	1,910	2,450	618	173	51	58
5	133	217	217	1,030	e360	1,760	1,840	2,180	668	162	49	61
6	194	274	306	940	e370	2,260	1,860	1,940	785	151	48	60
7	159	407	296	841	e540	2,720	2,030	1,820	695	139	49	84
8	138	350	272	849	e700	4,470	3,050	1,900	614	129	49	85
9	130	428	313	1,080	e900	3,550	3,900	2,020	564	123	53	69
10	128	335	335	1,090	e1,100	3,020	3,860	2,200	560	117	55	63
11	130	296	341	938	e1,200	3,060	3,280	2,370	812	112	52	60
12	127	293	375	e700	1,940	3,950	2,990	2,170	698	108	51	59
13	125	283	536	e600	1,460	4,440	2,790	2,040	576	109	48	58
14	125	294	1,200	e420	1,260	4,250	2,560	1,830	516	108	46	56
15	125	293	2,570	e410	1,460	3,520	2,690	1,660	470	105	45	53
16	133	268	1,550	e400	3,630	3,050	2,430	1,560	439	103	44	50
17	151	301	e700	e420	3,740	2,990	2,780	1,510	414	97	43	51
18	182	307	e600	e440	3,400	3,250	3,010	1,460	394	96	43	52
19	177	278	e520	e470	2,610	3,470	2,720	1,370	375	98	45	56
20	179	276	e480	e500	2,140	3,610	2,500	1,270	346	100	57	61
21	257	386	e580	e540	1,800	3,460	2,300	1,270	321	108	87	62
22	208	460	e620	e560	1,640	2,950	2,300	1,280	301	101	116	63
23	176	415	e640	e560	1,500	2,660	2,440	1,210	285	96	107	64
24	161	373	e610	e560	1,360	2,580	2,260	1,070	270	89	87	63
25	155	348	e600	e530	1,270	2,780	2,210	972	257	82	74	66
26	150	338	e1,000	e500	1,200	3,120	2,220	902	252	81	67	67
27	149	307	2,140	e480	1,110	3,300	2,190	856	242	79	63	69
28	145	281	1,370	e460	1,050	2,980	2,250	834	228	72	61	72
29	146	241	901	e430	---	2,640	2,430	788	215	74	58	78
30	143	205	752	e400	---	2,500	2,570	740	213	66	58	86
31	130	---	726	e420	---	2,390	---	690	---	61	59	---
<b>Total</b>	4,583	8,767	21,502	19,948	39,100	88,912	75,980	50,362	14,047	3,525	1,835	1,900
<b>Mean</b>	148	292	694	643	1,396	2,868	2,533	1,625	468	114	59.2	63.3
<b>Max</b>	257	460	2,570	1,320	3,740	4,470	3,900	2,900	812	208	116	86
<b>Min</b>	105	86	197	400	320	955	1,840	690	213	61	43	50
<b>Ac-ft</b>	9,090	17,390	42,650	39,570	77,550	176,400	150,700	99,890	27,860	6,990	3,640	3,770

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1929 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	159	309	706	955	1,444	2,461	3,621	3,567	1,630	370	131	119
<b>Max</b>	420	1,621	3,374	4,126	6,103	6,456	6,695	8,794	5,227	1,211	345	423
<b>(WY)</b>	(1983)	(1974)	(1965)	(1965)	(1996)	(1983)	(1943)	(1948)	(1948)	(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 2006		Water Year 2007		Water Years 1929 - 2007	
<b>Annual total</b>	609,019		330,461			
<b>Annual mean</b>	1,669		905		1,287	
<b>Highest annual mean</b>					2,608	1984
<b>Lowest annual mean</b>					441	1977
<b>Highest daily mean</b>	8,150	Apr 30	4,470	Mar 8	31,900	Jan 30, 1965
<b>Lowest daily mean</b>	73	Sep 7	43	Aug 17	17	Dec 12, 1932
<b>Annual seven-day minimum</b>	77	Sep 3	45	Aug 13	29	Aug 28, 1931
<b>Annual runoff (ac-ft)</b>	1,208,000		655,500		932,200	
<b>10 percent exceeds</b>	4,860		2,620		3,700	
<b>50 percent exceeds</b>	726		407		420	
<b>90 percent exceeds</b>	106		60		97	

