

13330000 LOSTINE RIVER NEAR LOSTINE, OR

Lower Snake Basin
Wallowa Subbasin

LOCATION.--Lat 45°26'20", long 117°25'35" referenced to North American Datum of 1927, in NW ¼ sec.34, T.1 S., R.43 E., Wallowa County, OR, Hydrologic Unit 17060105, on left bank, 3.5 mi south of Lostine and at mile 10.0.

DRAINAGE AREA.--70.90 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1912 to March 1914, April to September 1915, July 1925 to September 1991, April 1995 to current year. Monthly discharge only for some periods, published in WSP 1317.

REVISED RECORDS.--WSP 1397: 1913, 1942. WSP 1737: Drainage area. WDR-US-2011: 2011.

GAGE.--Water-stage recorder. Elevation of gage is 3,650 ft above NGVD of 1929, from topographic map. See WSP 1317 or 1737 for history of changes prior to Dec. 16, 1953. Dec. 16, 1953 to Aug. 23 1977, at datum 1.04 ft higher.

COOPERATION.--Data is collected and final records are provided by the State of Oregon Water Resources Department (OWRD). Discharge measurements and records were reviewed by U.S. Geological Survey.

REMARKS.--Records good except for estimated daily discharges, which are poor. Minam Lake, capacity 440 acre-ft, has stored and diverted flow from Minam River for irrigation in Lostine River basin since 1917. Diversions for irrigation upstream from station. Continuous water-quality records for period October 1957 to September 1958 have been collected at this location.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--84 years (water years 1913, 1926-91, 1996-2012), 193 ft³/s, 139,700 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 2,550 ft³/s June 16, 1974, gage height, 8.59 ft, present datum; minimum discharge, 7.5 ft³/s Mar. 2, 1966, result of freezeup; minimum daily, 10 ft³/s Nov. 28-30, 1936.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,100 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 22	0415	1,280	6.64
Jun 5	0215	*1,510	*7.21
Jun 18	0015	1,320	6.73

Minimum discharge, 17 ft³/s Dec. 22, but may have been less during period of estimated record.

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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	38	42	30	e48	e36	e44	135	379	635	916	132	50
2	38	36	31	e44	e34	e40	120	328	983	859	123	49
3	37	38	25	e42	e32	e40	110	308	970	829	116	48
4	37	40	33	e42	e48	e40	105	292	1,030	713	110	47
5	43	36	22	e42	e48	e38	97	261	1,230	661	104	46
6	50	38	28	e38	e46	e38	91	254	761	685	100	45
7	54	35	28	e38	e46	e34	85	238	573	756	98	44
8	70	38	23	e36	e48	e36	82	252	500	775	94	43
9	66	36	22	e36	e48	39	82	315	432	747	90	42
10	59	36	22	e36	e48	41	91	361	378	706	85	41
11	85	35	23	e28	e50	44	110	345	367	660	81	41
12	58	36	25	e26	e50	44	130	354	421	e600	76	41
13	48	36	21	e48	e48	46	129	412	580	e600	72	40
14	46	36	26	e60	e48	45	123	536	677	607	69	38
15	54	35	27	e50	e46	56	124	718	701	548	66	37
16	74	28	26	e44	e44	90	128	903	728	482	65	38
17	65	42	25	e42	e50	79	141	865	955	462	62	36
18	55	36	25	e46	e48	72	147	695	1,030	409	61	35
19	52	34	24	e70	e46	66	141	621	652	366	59	34
20	49	32	24	e75	e46	64	167	610	511	334	60	33
21	49	34	25	e70	e55	63	223	770	542	301	58	32
22	49	38	19	e60	e95	66	318	1,170	772	271	55	31
23	48	74	e22	e50	e75	65	486	822	948	249	53	31
24	48	75	e28	e48	e60	63	622	608	895	213	52	34
25	45	40	e28	e60	e60	63	684	495	889	194	50	32
26	42	32	e30	e50	e55	76	774	418	877	185	48	30
27	44	34	e32	e42	e50	74	675	360	623	179	46	30
28	41	33	e34	e38	e44	78	512	324	588	169	53	29
29	43	32	e65	e40	e50	78	415	322	697	159	54	28
30	41	32	e85	e42	---	93	401	352	780	149	53	28
31	48	---	e75	e38	---	120	---	429	---	141	51	---
Total	1,576	1,149	953	1,429	1,454	1,835	7,448	15,117	21,725	14,925	2,296	1,133
Mean	50.8	38.3	30.7	46.1	50.1	59.2	248	488	724	481	74.1	37.8
Max	85	75	85	75	95	120	774	1,170	1,230	916	132	50
Min	37	28	19	26	32	34	82	238	367	141	46	28
Ac-ft	3,130	2,280	1,890	2,830	2,880	3,640	14,770	29,980	43,090	29,600	4,550	2,250

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	54.5	65.0	57.3	50.2	47.4	55.6	160	510	787	384	85.7	49.1
Max	291	226	212	158	191	169	393	909	1,427	913	180	104
(WY)	(1960)	(1928)	(1959)	(1974)	(1996)	(1986)	(1934)	(1928)	(1913)	(1975)	(1943)	(1978)
Min	18.0	14.7	15.3	15.0	14.8	16.3	35.7	203	332	59.7	30.6	23.0
(WY)	(1937)	(1937)	(1937)	(1937)	(1937)	(1955)	(1975)	(1977)	(1926)	(1977)	(1931)	(1931)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1913 - 2012	
Annual total	80,433		71,040			
Annual mean	220		194		193	
Highest annual mean					288	1974
Lowest annual mean					90.9	1977
Highest daily mean	1,480	Jun 23	1,230	Jun 5	2,540	May 27, 1913
Lowest daily mean	19	Dec 22	19	Dec 22	10	Nov 28, 1936
Annual seven-day minimum	23	Dec 8	23	Dec 8	11	Nov 26, 1936
Annual runoff (ac-ft)	159,500		140,900		139,700	
10 percent exceeds	726		665		600	
50 percent exceeds	75		55		63	
90 percent exceeds	32		32		28	

