

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.

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.--83 years (water years 1913, 1926-91, 1996-2011), 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.

REVISIONS.--Daily mean discharges reported via NWISWeb for water year 2011 have been revised.

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)
Jun 22	2345	*1,610	7.43
Jun 28	2315	*1,610	*7.44

Minimum daily discharge, 23 ft³/s Jan. 4.

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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	35	47	59	e29	79	51	163	87	317	1,090	377	69
2	34	54	60	e28	85	56	183	92	307	1,060	363	65
3	34	62	56	e26	100	57	156	93	285	1,190	316	63
4	49	64	51	e23	100	55	142	91	305	1,260	283	60
5	44	68	55	e24	89	55	167	99	403	1,270	260	58
6	39	81	55	e29	86	54	149	111	586	1,230	245	56
7	39	111	55	33	83	53	137	131	902	1,230	227	55
8	41	103	55	35	81	51	128	141	931	1,130	202	54
9	39	88	54	35	76	52	120	133	716	899	186	52
10	39	84	56	35	74	56	114	132	663	827	174	51
11	54	77	54	36	77	54	112	164	648	845	163	50
12	46	77	66	37	73	51	107	219	700	942	152	60
13	42	71	78	42	72	51	107	264	941	968	142	59
14	40	77	80	56	71	54	102	479	981	823	138	58
15	38	97	71	59	72	58	98	764	894	736	133	58
16	37	106	57	333	73	63	111	632	719	712	124	57
17	36	95	55	581	69	57	124	482	646	749	117	56
18	35	88	57	341	69	54	117	400	700	790	113	54
19	35	78	62	244	67	54	110	364	795	742	107	53
20	35	75	59	205	66	52	106	392	841	644	102	52
21	34	73	57	193	64	59	104	464	985	570	98	50
22	34	74	57	173	62	56	99	550	1,240	534	94	48
23	34	65	58	156	61	52	97	573	1,480	481	93	47
24	53	e49	55	146	62	51	99	509	1,300	471	89	45
25	49	58	54	139	59	51	99	481	1,030	526	86	44
26	43	66	53	130	e57	49	97	482	925	502	84	44
27	42	68	52	122	e55	49	94	414	968	414	81	43
28	41	65	53	116	54	49	93	365	1,270	369	79	42
29	41	59	53	111	---	48	90	333	1,440	345	79	42
30	41	58	e45	106	---	61	89	307	1,290	337	75	40
31	49	---	e37	100	---	127	---	309	---	352	72	---
Total	1,252	2,238	1,769	3,723	2,036	1,740	3,514	10,057	25,208	24,038	4,854	1,585
Mean	40.4	74.6	57.1	120	72.7	56.1	117	324	840	775	157	52.8
Max	54	111	80	581	100	127	183	764	1,480	1,270	377	69
Min	34	47	37	23	54	48	89	87	285	337	72	40
Ac-ft	2,480	4,440	3,510	7,380	4,040	3,450	6,970	19,950	50,000	47,680	9,630	3,140

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	54.6	65.3	57.6	50.2	47.4	55.5	159	511	788	383	85.8	49.2
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 2010		Water Year 2011		Water Years 1913 - 2011	
Annual total	64,669		82,014			
Annual mean	177		225		193	
Highest annual mean					288	1974
Lowest annual mean					90.9	1977
Highest daily mean	1,810	Jun 4	1,480	Jun 23	2,540	May 27, 1913
Lowest daily mean	24	Feb 21	23	Jan 4	10	Nov 28, 1936
Annual seven-day minimum	27	Feb 17	27	Jan 1	11	Nov 26, 1936
Annual runoff (ac-ft)	128,300		162,700		139,700	
10 percent exceeds	560		726		598	
50 percent exceeds	57		80		63	
90 percent exceeds	29		42		28	

