



Water-Data Report 2009

14095500 WARM SPRINGS RIVER NEAR SIMNASHO, OR

Deschutes Basin
Lower Deschutes Subbasin

LOCATION.--Lat 44°58'02.1", long 121°28'05.6" referenced to North American Datum of 1927, in NE ¼ NE ¼ sec.18, T.7 S., R.11 E., Wasco County, OR, Hydrologic Unit 17070306, Warm Springs Indian Reservation, on left bank, near Hwy 26 bridge, 2.9 mi upstream from Badger Creek, 6.6 mi west of Simnasho and at mile 30.1.

DRAINAGE AREA.--107 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--June to September 1915, August 1949 to September 1954, October 1983 to June 2009 (discontinued). Prior to October 1983, published as "at Hehe Mill near Warm Springs."

GAGE.--Water-stage recorder. Datum of gage is 2,525.94 ft above NAVD of 1988. June to September 1915, at site 0.6 mi downstream at different datum. August 1949 to September 1954, at site 0.1 mi downstream at datum 0.72 ft higher. October 1983 to January 2005, at site 0.4 mi upstream, at datum 7.84 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. No regulation or diversion upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--30 years (water years 1950-54, 1984-2008), 159 ft³/s, 20.23 in/yr, 115,400 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,670 ft³/s Feb. 7, 1996, gage height, 6.98 ft, site and datum then in use, from rating curve extended above 1,300 ft³/s on basis of slope-area measurement of peak flow; minimum discharge, 78 ft³/s Jan. 14, 2004, result of freezeup.

EXTREMES FOR PERIOD OCTOBER 2008 TO JUNE 2009.--Peak discharges greater than base discharge of 350 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Jan 2	0500	434	5.76
Jan 8	1200	378	5.66
May 7	0930	*539	*5.96

Minimum discharge, 111 ft³/s, Dec. 20, gage height, 4.83 ft.

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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	116	119	116	193	130	147	191	216	215	---	---	---
2	118	123	119	351	128	157	205	225	235	---	---	---
3	121	122	116	213	128	175	206	233	211	---	---	---
4	127	133	115	171	127	165	194	e250	203	---	---	---
5	123	124	114	173	127	166	188	e420	198	---	---	---
6	121	129	114	189	128	163	184	e480	191	---	---	---
7	120	122	116	256	127	158	184	e520	184	---	---	---
8	119	121	120	340	127	157	191	472	---	---	---	---
9	119	120	115	297	126	152	203	433	---	---	---	---
10	119	119	115	238	127	148	244	412	---	---	---	---
11	119	124	114	213	125	144	229	396	---	---	---	---
12	119	130	117	203	124	141	225	404	---	---	---	---
13	119	150	118	197	126	142	245	e375	---	---	---	---
14	119	125	116	188	125	143	242	e390	---	---	---	---
15	119	121	e110	179	125	161	231	369	---	---	---	---
16	119	119	e110	174	124	172	220	349	---	---	---	---
17	119	118	e115	167	124	164	213	346	---	---	---	---
18	119	118	e115	161	124	162	210	355	---	---	---	---
19	119	117	114	155	123	163	208	380	---	---	---	---
20	120	121	e110	152	122	167	210	e355	---	---	---	---
21	122	122	e110	149	121	175	224	e330	---	---	---	---
22	119	119	e113	147	122	179	246	e310	---	---	---	---
23	119	118	e120	144	132	175	e270	299	---	---	---	---
24	119	117	e125	142	152	174	262	288	---	---	---	---
25	118	117	116	141	169	180	251	277	---	---	---	---
26	118	117	113	e130	169	e180	239	264	---	---	---	---
27	118	116	122	e125	151	175	e235	254	---	---	---	---
28	118	116	138	135	146	180	230	245	---	---	---	---
29	118	116	147	133	---	203	240	237	---	---	---	---
30	118	116	129	132	---	194	230	230	---	---	---	---
31	119	---	125	132	---	193	---	221	---	---	---	---
Total	3,700	3,649	3,657	5,720	3,679	5,155	6,650	10,335	---	---	---	---
Mean	119	122	118	185	131	166	222	333	---	---	---	---
Max	127	150	147	351	169	203	270	520	---	---	---	---
Min	116	116	110	125	121	141	184	216	---	---	---	---
Ac-ft	7,340	7,240	7,250	11,350	7,300	10,220	13,190	20,500	---	---	---	---
Cfsm	1.12	1.14	1.10	1.72	1.23	1.55	2.07	3.12	---	---	---	---
In.	1.29	1.27	1.27	1.99	1.28	1.79	2.31	3.59	---	---	---	---

Calendar Year 2008	
Total	58,110
Mean	159
Max	548
Min	100
Ac-ft	115,300
Cfsm	1.48
In.	20.20

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