

14216000 LEWIS RIVER ABOVE MUDDY RIVER NEAR COUGAR, WA

Lower Columbia Basin
Lewis Subbasin

LOCATION.--Lat 46°03'38", long 121°59'00" referenced to North American Datum of 1927, Skamania County, WA, Hydrologic Unit 17080002, in SE ¼ sec. 30, T.7 N., R.7 E., Gifford Pinchot National Forest, on right bank 1.0 mile upstream from Pepper Creek, 1.9 miles upstream from Muddy River, 15.4 miles east of Cougar, and at mile 62.0.

DRAINAGE AREA.--227.00 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1927 to September 1934, October 1954 to September 1970, April 2006 to current year. Records for August to October 1909, published in WSP 272, have been found to be unreliable and should not be used.

GAGE.--Water-stage recorder. Altitude of gage is 1,080 ft (from river-profile map). August 1927 to september 1934 at datum 2.61 ft lower.

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

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--23 years (water years 1928-1934, 1955-1970), 1,273 ft³/s, 76.16 in/yr, 922,300 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 27,000 ft³/s, Dec. 21, 1933, from rating curve extended above 6,000 ft³/s, gage height, 10.6 ft, from high water marks, present datum; minimum discharge, 175 ft³/s Nov. 21, 1929; minimum gage height, -0.13 ft Sept. 28, 29, 1934, datum then in use.

EXTREMES FOR PERIOD APRIL TO SEPTEMBER.--Peak discharges greater than base discharge of 4,500 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 18	0115	*4,110	*4.97

Minimum discharge, 231 ft³/s, Sep 29, 30, gage height, 1.32 ft.

14216000 LEWIS RIVER ABOVE MUDDY RIVER NEAR COUGAR, WA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	
1	---	---	---	---	---	---	e982	2,270	2,000	842	366	271	
2	---	---	---	---	---	---	e954	1,950	2,740	801	360	267	
3	---	---	---	---	---	---	e1,010	1,790	2,580	772	356	265	
4	---	---	---	---	---	---	e1,090	1,750	2,550	796	351	264	
5	---	---	---	---	---	---	e1,130	1,780	2,460	738	346	262	
6	---	---	---	---	---	---	e1,160	1,840	2,170	691	342	260	
7	---	---	---	---	---	---	e1,130	1,820	2,020	638	338	258	
8	---	---	---	---	---	---	e1,440	1,760	1,830	e610	336	256	
9	---	---	---	---	---	---	e1,520	1,620	1,590	e600	333	256	
10	---	---	---	---	---	---	e1,580	1,580	1,450	586	332	253	
11	---	---	---	---	---	---	e1,510	1,660	1,420	559	326	251	
12	---	---	---	---	---	---	e1,470	1,700	1,600	e565	322	250	
13	---	---	---	---	---	---	e1,470	1,630	1,910	570	317	248	
14	---	---	---	---	---	---	e2,370	1,650	1,650	e530	313	251	
15	---	---	---	---	---	---	e2,580	2,020	1,580	e515	310	255	
16	---	---	---	---	---	---	e2,390	2,880	1,510	496	309	261	
17	---	---	---	---	---	---	e2,040	3,580	e1,460	484	309	251	
18	---	---	---	---	---	---	e1,780	3,870	e1,370	e470	304	252	
19	---	---	---	---	---	---	e1,610	3,590	e1,290	453	299	268	
20	---	---	---	---	---	---	e1,540	3,210	e1,240	444	297	264	
21	---	---	---	---	---	---	e1,580	2,690	e1,190	437	294	280	
22	---	---	---	---	---	---	e1,510	2,810	e1,170	439	293	257	
23	---	---	---	---	---	---	e1,490	2,700	e1,150	434	290	249	
24	---	---	---	---	---	---	e1,520	2,670	e1,130	422	290	244	
25	---	---	---	---	---	---	1,630	2,420	e1,130	412	287	241	
26	---	---	---	---	---	---	1,690	2,210	1,130	403	283	239	
27	---	---	---	---	---	---	1,670	1,980	1,120	399	280	237	
28	---	---	---	---	---	---	1,940	2,070	1,030	390	278	234	
29	---	---	---	---	---	---	2,500	2,100	903	380	276	233	
30	---	---	---	---	---	---	2,620	1,860	863	380	279	231	
31	---	---	---	---	---	---	---	1,790	---	379	278	---	
Total	---	---	---	---	---	---	---	48,906	69,250	47,236	16,635	9,694	7,608
Mean	---	---	---	---	---	---	---	1,630	2,234	1,575	537	313	254
Max	---	---	---	---	---	---	---	2,620	3,870	2,740	842	366	280
Min	---	---	---	---	---	---	---	954	1,580	863	379	276	231
Ac-ft	---	---	---	---	---	---	---	97,010	137,400	93,690	33,000	19,230	15,090
Cfsm	---	---	---	---	---	---	---	7.18	9.84	6.94	2.36	1.38	1.12
In.	---	---	---	---	---	---	---	8.01	11.35	7.74	2.73	1.59	1.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1927 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	671	1,447	1,747	1,548	1,438	1,306	1,736	2,145	1,703	751	420	364
Max	1,761	2,918	6,954	3,794	3,720	2,432	2,311	3,585	3,880	1,709	651	619
(WY)	(1956)	(1956)	(1934)	(1934)	(1968)	(1932)	(1932)	(1956)	(1933)	(1933)	(1956)	(1959)
Min	234	208	331	487	336	558	873	784	434	360	259	224
(WY)	(1930)	(1930)	(1931)	(1930)	(1929)	(1955)	(1967)	(1934)	(1934)	(1934)	(1931)	(1931)

14216000 LEWIS RIVER ABOVE MUDDY RIVER NEAR COUGAR, WA—Continued

SUMMARY STATISTICS

Water Years 1927 - 2006		
Annual mean	1,273	
Highest annual mean	1,875	1956
Lowest annual mean	805	1930
Highest daily mean	22,500	Dec 22, 1933
Lowest daily mean	180	Oct 14, 1931
Annual seven-day minimum	180	Oct 14, 1931
Annual runoff (cfsm)	5.61	
10 percent exceeds	2,590	
50 percent exceeds	920	
90 percent exceeds	322	

