

## COWLITZ RIVER BASIN

14231900 CISPUS RIVER ABOVE YELLOWJACKET CREEK, NEAR RANDLE, WA

LOCATION.--Lat 46°26'38", long 121°50'28", in NE 1/4 sec.18, T.11 N., R.8 E., (unsurveyed), Lewis County, Hydrologic Unit 17080004, Gifford Pinchot National Forest, on right bank 600 ft downstream from Forest Service Road 28 bridge, 2.5 mi downstream from North Fork, 8.5 mi southeast of Randle, and at mile 17.4.

DRAINAGE AREA.--250 mi<sup>2</sup>.

PERIOD OF RECORD.--August 1996 to current year.

GAGE.--Water-stage recorder. Datum of gage is 1,260 ft above NGVD of 1929.

REMARKS.--Records good except estimated daily values, which are poor. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--7 years (water years 1996-2002), 1,077 ft<sup>3</sup>/s, 58.55 in/yr, 780,500 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 8,840 ft<sup>3</sup>/s Nov. 25, 1999, gage height, 8.24 ft; minimum daily discharge, 170 ft<sup>3</sup>/s Oct. 9, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Feb. 8, 1996, reached stage of 12.50 ft, discharge not determined.

EXTREMES FOR CURRENT YEAR--Peak discharges greater than base discharge of 4,000 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jan. 08	0300	*8,480	*8.10	May 29	1530	4,060	5.64
Apr. 14	0930	5,570	6.75				

Minimum daily discharge, 170 ft<sup>3</sup>/s Oct. 9.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	e235	757	1100	683	688	1000	896	1550	2970	1800	662	416
2	e240	674	1150	736	656	950	935	1730	2890	1660	642	432
3	e235	612	1040	731	642	907	934	1710	2840	1560	610	429
4	e245	541	986	689	614	878	988	1600	2740	1470	601	379
5	e230	530	933	678	605	854	1120	1510	2860	1370	579	360
6	e225	481	893	838	618	858	1240	1390	2870	1330	551	346
7	e190	432	853	3730	694	814	1360	1290	2500	1360	540	338
8	e190	402	849	6550	702	774	1360	1200	2210	1520	528	334
9	e170	385	779	4230	666	750	1390	1150	1990	1350	535	333
10	e210	367	748	2850	652	763	1680	1110	1980	1350	551	339
11	e270	360	718	2130	635	1060	1790	1110	2160	1390	545	346
12	e280	366	672	1900	606	1450	1900	1190	2400	1340	540	344
13	e310	425	983	1700	593	1270	2200	1430	2830	1340	548	342
14	e350	1670	1700	1530	570	1170	4600	1560	3060	1260	555	339
15	e310	1590	1440	1360	555	1090	3470	1580	3060	1150	539	336
16	e280	1400	1740	1250	547	1030	2500	1590	2870	1090	515	330
17	e265	1180	2680	1140	540	972	2040	1640	2560	1080	499	330
18	e250	1020	2090	1070	538	921	1770	1720	2450	1040	480	322
19	e250	1020	1750	1040	631	915	1610	1750	2270	1000	472	325
20	e270	1210	1500	1000	647	885	1510	1970	2150	942	457	325
21	e260	1410	1330	971	817	852	1460	2050	2160	907	443	318
22	e320	1700	1200	918	1340	821	1390	2030	2240	899	450	315
23	450	1920	1080	880	1490	808	1320	1980	2260	895	442	319
24	383	1570	1010	870	1490	797	1250	1950	2190	876	449	323
25	e330	1320	945	929	1340	806	1230	2000	2070	857	472	e315
26	e335	1150	895	891	1230	824	1240	2130	2140	850	450	e300
27	e350	1040	852	843	1140	828	1220	2350	2180	809	457	e285
28	e340	1000	816	799	1070	828	1200	2780	2050	771	470	e280
29	e320	1010	756	760	---	840	1240	3750	2590	809	463	e300
30	379	951	718	741	---	840	1340	3680	2120	789	431	e270
31	828	---	705	718	---	860	---	3260	---	717	411	---
TOTAL	9300	28493	34911	45155	22316	28415	48183	57740	73660	35581	15887	10070
MEAN	300.0	949.8	1126	1457	797.0	916.6	1606	1863	2455	1148	512.5	335.7
MAX	828	1920	2680	6550	1490	1450	4600	3750	3060	1800	662	432
MIN	170	360	672	678	538	750	896	1110	1980	717	411	270
AC-FT	18450	56520	69250	89560	44260	56360	95570	114500	146100	70570	31510	19970
CFSM	1.20	3.80	4.50	5.83	3.19	3.67	6.42	7.45	9.82	4.59	2.05	1.34
IN.	1.38	4.24	5.19	6.72	3.32	4.23	7.17	8.59	10.96	5.29	2.36	1.50

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1996 - 2002, BY WATER YEAR (WY)

	1996	1997	1998	1999	2000	2001	2002
MEAN	520.9	1036	1143	1271	899.6	992.6	1277
MAX	1172	1720	1763	2322	1345	1617	1756
(WY)	1998	2000	1999	1997	1997	1997	1999
MIN	300	359	369	426	414	574	785
(WY)	2002	2001	2001	2001	2001	2001	2001

## SUMMARY STATISTICS

	FOR 2001 CALENDAR YEAR	FOR 2002 WATER YEAR	WATER YEARS 1996 - 2002
ANNUAL TOTAL	247907	409711	
ANNUAL MEAN	679.2	1122	1077
HIGHEST ANNUAL MEAN			1381
LOWEST ANNUAL MEAN			580
HIGHEST DAILY MEAN	2680	Dec 17	7560
LOWEST DAILY MEAN	170	Oct 9	170
ANNUAL SEVEN-DAY MINIMUM	209	Oct 4	209
ANNUAL RUNOFF (AC-FT)	491700	812700	780500
ANNUAL RUNOFF (CFSM)	2.72	4.49	4.31
ANNUAL RUNOFF (INCHES)	36.89	60.96	58.55
10 PERCENT EXCEEDS	1410	2160	2030
50 PERCENT EXCEEDS	506	899	864
90 PERCENT EXCEEDS	283	330	360

e Estimated