NISQUALLY RIVER BASIN

12083000 MINERAL CREEK NEAR MINERAL, WA

LOCATION.--Lat 46°44'40", long 122°08'36", in SE $^1/_4$ SW $^1/_4$ sec.35, T.15 N., R.5 E., Lewis County, Hydrologic Unit 17110015, on right bank 0.3 mi downstream from railroad bridge, 2.3 mi northeast of Mineral, and at mile 1.3.

DRAINAGE AREA.--75.2 mi^2.

PERIOD OF RECORD.--June 1942 to current year.

REVISED RECORDS.--WSP 1932: Drainage area. WRD WA-74: 1971(P).

GAGE.--Water-stage recorder. Elevation of gage is 1,340 ft above NGVD of 1929, from topographic map. Prior to May 14, 1987, at site 0.25 mi downstream at datum 1.90 ft lower.

REMARKS.--No estimated daily discharges. Records good. No regulation or diversion upstream from station. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE.--60 years (water years 1943-2002), 363 ft^3/s, 65.60 in/yr, 263,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,900 ft^3/s Feb. 8, 1996, gage height, 12.89 ft, from rating curve extended above 560 ft^3/s, based on runoff comparisons with nearby stations; minimum discharge, 13 ft^3/s Sept. 23-25, 1989, gage height, 6.93 ft.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 2,700 ft^3/s and maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)	Date	Time	Discharge (ft^3/s)	Gage height (ft)
Nov 14	0745	3,410	12.26	Jan 07	2215	*6,130	13.05
Dec 13	2230	4,950	12.90	Mar 11	2000	2,920	11.56
Dec 17	0030	5,860	*13.22	Apr 14	0615	4,820	12.57

Minimum discharge, 19 ft^3/s Sept. 26.

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	30	385	960	147	280	339	278	460	425	142	40	26
2	29	305	963	257	240	287	277	500	398	125	37	26
3	29	244	708	249	257	251	278	465	372	113	37	29
4	28	203	582	223	240	227	298	414	354	105	36	27
5	28	204	486	212	237	233	361	405	361	99	39	26
6	27	176	566	414	304	223	440	384	336	93	41	26
7	28	154	533	3870	522	192	491	355	292	95	37	26
8	30	137	464	4410	474	176	455	333	264	117	35	26
9	31	129	427	2260	373	164	496	313	230	93	34	26
10	33	119	397	1360	323	212	1030	300	227	84	34	25
11	61	111	369	940	306	1650	1100	296	238	79	34	25
12	48	118	350	943	263	1560	1240	320	248	72	32	24
13	53	212	2300	806	229	921	1920	401	256	68	30	23
14	50	2620	2700	673	199	664	3670	427	256	66	29	23
15	46	1340	1170	561	182	527	1830	415	236	64	28	23
16	42	843	3470	476	181	441	1200	398	205	62	28	24
17	45	599	3420	396	174	366	904	406	178	60	28	28
18	42	461	1350	339	190	317	726	419	196	57	27	26
19	41	449	824	323	309	356	621	411	175	56	27	23
20	40	532	568	388	336	490	560	440	153	55	30	22
21	40	706	426	387	1220	414	505	513	144	52	31	22
22	71	1360	336	303	1380	374	463	494	137	51	30	21
23	230	1620	272	260	1240	370	425	454	131	49	28	21
24	163	968	230	656	1150	368	397	418	122	47	28	21
25	155	691	196	1610	815	387	383	419	112	46	27	21
26	132	540	164	842	627	383	379	442	107	46	29	20
27	120	445	145	576	507	361	391	470	104	46	30	20
28	116	534	178	429	410	334	368	580	125	43	27	20
29	102	882	144	331	---	316	365	723	289	43	27	21
30	131	745	126	285	---	304	397	589	177	42	26	24
31	409	---	127	323	---	293	---	488	---	41	26	---
TOTAL	2430	17832	24951	25249	12968	13500	22248	13452	6848	2211	972	715
MEAN	78.4	594	805	814	463	435	742	434	228	71.3	31.4	23.8
MAX	409	2620	3470	4410	1380	1650	3670	723	425	142	41	29
MIN	27	111	126	147	174	164	277	296	104	41	26	20
AC-FT	4820	35370	49490	50080	25720	26780	44130	26680	13580	4390	1930	1420
CFSM	1.04	7.90	10.7	10.8	6.16	5.79	9.86	5.77	3.04	0.95	0.42	0.32
IN.	1.20	8.82	12.34	12.49	6.42	6.68	11.01	6.65	3.39	1.09	0.48	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 2002, BY WATER YEAR (WY)

MEAN	153	513	685	656	614	483	493	386	209	83.0	46.7	54.8
MAX	527	1219	1463	1568	1443	1358	873	745	552	195	94.5	192
(WY)	1956	1956	1976	1953	1982	1972	1991	1949	1955	1983	1968	1959
MIN	23.1	35.9	128	138	146	155	226	141	50.9	38.9	23.6	18.3
(WY)	1953	1953	1977	1977	1977	1992	1973	1994	1992	1970	1970	1989

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1942 - 2002	
ANNUAL TOTAL	96121		143376			
ANNUAL MEAN	263		393		363	
HIGHEST ANNUAL MEAN					527	1974
LOWEST ANNUAL MEAN					173	2001
HIGHEST DAILY MEAN	3470	Dec 16	4410	Jan 8	9260	Feb 8 1996
LOWEST DAILY MEAN	27	Sep 23	20	Sep 26	13	Sep 24 1989
ANNUAL SEVEN-DAY MINIMUM	28	Sep 18	21	Sep 22	15	Sep 19 1989
ANNUAL RUNOFF (AC-FT)	190700		284400		263000	
ANNUAL RUNOFF (CFSM)	3.50		5.22		4.83	
ANNUAL RUNOFF (INCHES)	47.55		70.93		65.60	
10 PERCENT EXCEEDS	516		859		785	
50 PERCENT EXCEEDS	175		256		234	
90 PERCENT EXCEEDS	36		28		37	