11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA

Klamath River Basin

LOCATION.--Lat 40°40′35″, long 122°49′46″ referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.36, T.33 N., R.9 W., Trinity County, Hydrologic Unit 18010211, on right bank, 15 ft downstream from California Department of Forestry bridge at Fawn Lodge Forestry Camp, 0.1 mi upstream from Phillips Gulch, and 2.5 mi southwest of Lewiston.

DRAINAGE AREA.--30.8 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1975 to September 2005 (discontinued).

REVISED RECORDS.--WDR CA-86-2: 1983(M). WDR CA-94-2: 1993(P). WDR CA-97-2: 1983(P).

GAGE.--Water-stage recorder. Datum of gage is 2,049.73 ft above NGVD of 1929 (California State Highway Department Benchmark).

REMARKS.--Records fair. Minor regulation by Buckhorn Reservoir since 1990, capacity, 1,090 acre-ft; small pumping diversions upstream from station. See schematic diagram of Klamath River and Trinity River Basins.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 3,500 ft^3/s, Feb. 28, 1983, gage height, 10.11 ft, from rating curve extended above 700 ft^3/s, on basis of slope-area measurement of peak flow; minimum daily, 3.8 ft^3/s, July 29, 1994.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 220 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 27	2330	*396	*4.90
Feb 27	2145	317	4.66
Mar 22	0300	245	4.43
May 9	0000	343	4.74
May 18	1645	264	4.49

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12	17	18	63	78	143	108	71	78	44	20	14
2	12	17	18	56	72	157	105	70	76	42	20	14
3	12	17	17	53	67	128	110	69	74	41	20	14
4	12	17	17	48	64	117	107	76	72	41	19	14
5	12	17	18	45	62	108	100	113	69	39	19	14
6	12	17	20	43	59	101	97	105	69	38	19	14
7	12	17	36	45	56	96	99	94	67	37	19	14
8	12	17	80	42	54	92	101	222	69	37	19	14
9	13	17	46	42	53	90	98	241	67	36	18	13
10	13	18	35	43	51	87	94	156	64	35	17	14
11	13	20	31	46	49	85	92	130	61	34	17	14
12	12	20	29	43	48	82	88	119	60	33	17	14
13	12	19	28	41	54	80	85	114	58	33	17	14
14	12	19	27	37	56	77	83	108	56	32	17	14
15	12	18	26	37	53	74	80	106	55	30	17	14
16	12	18	25	38	52	70	78	101	57	29	17	14
17	14	18	24	39	53	68	77	100	64	29	17	14
18	14	18	24	38	56	67	76	201	95	28	17	14
19	22	18	23	40	74	92	74	168	90	27	17	14
20	16	18	23	40	108	97	73	135	72	27	17	13
21	14	18	23	40	103	106	72	121	65	26	17	13
22	14	18	22	40	88	228	71	114	62	26	17	13
23	18	18	22	41	80	163	82	109	58	25	16	13
24	15	18	22	41	75	135	79	103	55	24	16	13
25	14	19	21	44	71	122	77	98	54	24	15	13
26	17	19	25	96	68	114	75	94	54	23	14	13
27	17	20	118	96	139	135	74	92	51	22	14	13
28	18	19	240	162	183	154	74	90	50	22	14	13
29	17	18	112	116	---	132	73	90	48	22	15	13
30	17	18	103	97	---	120	72	84	45	22	15	13
31	17	---	77	85	---	114	---	81	---	21	15	---
Total	439	542	1,350	1,737	2,026	3,434	2,574	3,575	1,915	949	528	408
Mean	14.2	18.1	43.5	56.0	72.4	111	85.8	115	63.8	30.6	17.0	13.6
Max	22	20	240	162	183	228	110	241	95	44	20	14
Min	12	17	17	37	48	67	71	69	45	21	14	13
Ac-ft	871	1,080	2,680	3,450	4,020	6,810	5,110	7,090	3,800	1,880	1,050	809

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1976 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.1	23.1	44.4	77.1	103	109	74.0	57.0	34.5	18.7	12.5	11.7
Max	20.8	70.4	220	332	493	531	186	174	121	54.1	30.6	23.0
(WY)	(1999)	(1985)	(1984)	(1995)	(1998)	(1983)	(1983)	(1983)	(1998)	(1998)	(1998)	(1983)
Min	6.94	8.88	8.20	10.2	9.10	13.8	12.3	15.1	9.64	5.85	4.95	6.50
(WY)	(1992)	(1991)	(1991)	(1991)	(1991)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1994)

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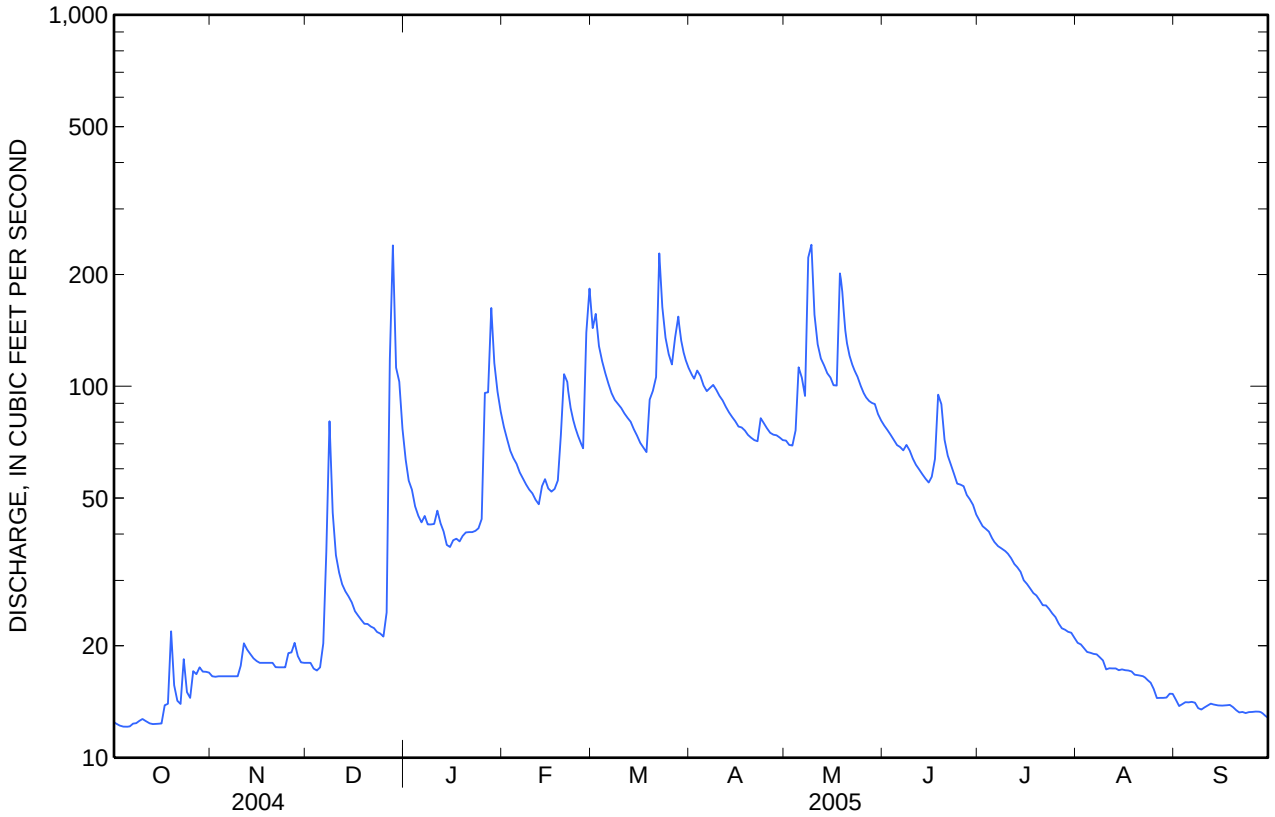
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1976 - 2005	
Annual total	17,604		19,477			
Annual mean	48.1		53.4		48.8	
Highest annual mean					136	1983
Lowest annual mean					10.2	1977
Highest daily mean	721	Feb 17	241	May 9	2,420	Mar 2, 1983
Lowest daily mean	11	Aug 20	12	Oct 1	3.8	Jul 29, 1994
Annual seven-day minimum	11	Sep 6	12	Oct 1	4.0	Jul 25, 1994
Maximum peak flow			396	Dec 27	3,500	Feb 28, 1983
Maximum peak stage			4.90	Dec 27	10.11	Feb 28, 1983
Annual runoff (ac-ft)	34,920		38,630		35,380	
10 percent exceeds	95		108		106	
50 percent exceeds	25		41		23	
90 percent exceeds	12		14		9.5	



WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 1976-2005 (discontinued).
WATER TEMPERATURE: Water years 1976-2002.
SEDIMENT DATA: Water years 1976-2002 (daily), 2003-05 (storm season only) (discontinued).

PERIOD OF DAILY RECORD.--
SUSPENDED-SEDIMENT DISCHARGE: November 1975 to September 2002.

REVISED RECORDS.--WDR CA-01-04: 2001 (monthly totals for the Summary of Water and Sediment Discharge).

REMARKS.--Zero bed load observed at flows less than 76 ft^3/s. Record is collected for hydrologic and sediment-transport correlation studies with Grass Valley Creek near Lewiston (station 11525630).

EXTREMES FOR PERIOD OF DAILY RECORD.--
SEDIMENT CONCENTRATION: (Water years 1976-2002) Maximum daily mean, 9,550 mg/L, Mar. 2, 1983; minimum daily mean, 0 mg/L, several days in most years.
SEDIMENT LOAD: (Water years 1976-2002) Maximum daily, 65,200 tons, Mar. 2, 1983; minimum daily, 0 ton, several days in most years.

PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Suspended sediment concentration mg/L (80154)	Suspended sediment discharge, tons/d (80155)	Suspnd. sediment, sieve diametr percent <.063mm (70331)	Suspnd. sediment, sieve diametr percent <.125mm (70332)	Suspnd. sediment, sieve diametr percent <.25mm (70333)	Suspnd. sediment, sieve diametr percent <.5 mm (70334)	Suspnd. sediment, sieve diametr percent <1 mm (70335)	Suspnd. sediment, sieve diametr percent <2 mm (70336)	Suspended sedimnt sieve diametr percent <4mm (69314)
Nov												
02...	0920	16	6.0	1	.04	--	--	--	--	--	--	--
Dec												
03...	0925	17	2.5	1	.05	--	--	--	--	--	--	--
09...	1015	46	6.0	4	.50	56	--	--	--	--	--	--
28...	0945	253	4.5	104	71	26	35	47	63	82	100	--
Jan												
13...	0930	41	3.5	1	.11	--	--	--	--	--	--	--
28...	1320	164	6.0	38	17	32	38	50	71	100	--	--
Feb												
03...	0945	68	4.0	9	1.7	--	--	--	--	--	--	--
Mar												
01...	1045	134	6.5	14	5.1	69	77	84	89	100	--	--
21...	0935	91	6.5	4	.98	60	65	69	71	100	--	--
22...	1345	240	7.5	94	61	9	12	16	29	51	62	100
Apr												
12...	0940	87	8.0	4	.94	59	--	--	--	--	--	--
May												
03...	0935	69	9.5	2	.37	39	--	--	--	--	--	--
09...	0935	243	8.5	98	64	8	10	14	25	47	77	100
18...	0910	188	9.5	34	17	42	52	66	83	97	100	--
27...	0915	93	12.5	6	1.5	73	--	--	--	--	--	--

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PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Date	Time	Number of sampling points, count (00063)	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Bed sediment, dry svd sve dia percent <.25mm (80166)	Bed sediment, dry svd sve dia percent <.5 mm (80167)	Bed sediment, dry svd sve dia percent <1 mm (80168)	Bed sediment, dry svd sve dia percent <2 mm (80169)	Bed sediment, dry svd sve dia percent <4 mm (80170)	Bed sediment, dry svd sve dia percent <8 mm (80171)	Bed sediment, dry svd sve dia percent <16 mm (80172)	Bed sediment, dry svd sve dia percent <32 mm (80173)	Bed sediment, dry svd sve dia percent <64 mm (80174)
Nov													
02...	0925	1	16	6.0	1	4	8	14	23	29	50	100	--
02...	0930	1	16	6.0	--	1	6	24	43	47	49	100	--
02...	0935	1	16	6.0	1	5	11	16	22	26	34	100	--
May													
03...	0945	1	71	9.5	--	2	10	20	35	42	45	83	100
03...	0950	1	71	9.5	--	--	2	9	21	29	33	39	100
03...	0955	1	69	9.5	--	--	2	7	15	23	33	80	100

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 1 of 2

Date	Time	Sampling method, code (82398)	Sampler type, code (84164)	Bag mesh size, bedload sampler mm (30333)	Tether line used in samplng (yes=1) code (04117)	Startng time, 24 hour clock, hr-min (82073)	Ending time, 24 hour clock, hr-min (82074)	Rest time on bed for bed load sample, seconds (04120)	Horizontal width of vertical, feet (04121)	Compstd samples in x-sec bedload measmnt number (04118)	Verticals in composite sample, number (04119)	Number of sampling points, count (00063)	Location in X-sect. looking dwnstrm ft from l bank (00009)
Dec													
28...	1025	1000	1100	.250	.0	1015	1035	30	1.0	2	17	17	6.00
28...	1045	1000	1100	.250	.0	1035	1050	30	1.0	2	17	17	6.00
Jan													
28...	1340	1000	1120	.250	.0	1330	1345	30	1.0	2	19	19	16.0
28...	1350	1000	1120	.250	.0	1345	1400	30	1.0	2	19	19	16.0
Mar													
01...	1100	1000	1120	.250	.0	1055	1105	30	1.0	2	17	17	14.0
01...	1110	1000	1120	.250	.0	1105	1115	30	1.0	2	17	17	14.0
21...	0955	1000	1120	.250	.0	0950	1000	30	1.0	2	18	18	12.0
21...	1005	1000	1120	.250	.0	1000	1010	30	1.0	2	18	18	12.0
May													
18...	0930	1000	1120	.250	.0	0925	0935	30	1.0	2	21	21	13.0
18...	0940	1000	1120	.250	.0	0935	0945	30	1.0	2	21	21	13.0
27...	0930	1000	1120	.250	.0	0925	0935	30	1.0	2	19	19	11.0
27...	0940	1000	1120	.250	.0	0935	0945	30	1.0	2	19	19	11.0

11525600 GRASS VALLEY CREEK AT FAWN LODGE, NEAR LEWISTON, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005

Part 2 of 2

Date	Instantaneous discharge, cfs (00061)	Temperature, water, deg C (00010)	Bedload sedimnt dschrge average unit cmposit t/d/ft (04122)	Bedload sediment discharge, tons/d (80225)	Bedload sediment, sieve diametr percent <.25mm (80228)	Bedload sediment, sieve diametr percent <.5 mm (80229)	Bedload sediment, sieve diametr percent <1 mm (80230)	Bedload sediment, sieve diametr percent <2 mm (80231)	Bedload sediment, sieve diametr percent <4 mm (80232)	Bedload sediment, sieve diametr percent <8 mm (80233)
Dec										
28...	240	4.5	.52	9.4	1	5	13	39	85	100
28...	232	4.5	.58	9.4	1	7	18	46	91	100
Jan										
28...	162	6.0	1.21	24	--	--	5	26	82	100
28...	162	6.0	1.32	24	--	1	6	30	86	100
Mar										
01...	132	6.5	.84	15	--	1	9	40	90	100
01...	132	6.5	.91	15	--	2	10	41	90	100
21...	91	6.5	.08	1.8	--	4	21	59	94	100
21...	91	6.5	.11	1.8	--	3	22	60	94	100
May										
18...	194	9.5	.92	14	--	7	26	60	93	100
18...	195	9.5	.46	14	--	13	39	74	97	100
27...	93	12.5	.31	7.2	--	4	20	60	95	100
27...	93	12.5	.45	7.2	--	1	4	11	99	100