

Water-Data Report 2013

11252275 San Joaquin River below Highway 41, near Pinedale, CA

San Joaquin River Basin

LOCATION.--Lat 36°52'35", long 119°47'35" referenced to North American Datum of 1983, in SE ¼ NW ¼ sec.21, T.12 S., R.20 E., Madera County, CA, Hydrologic Unit 18040001, on right bank, 300 ft downstream from Highway 41 bridge, and 2.8 mi north of Pinedale.

DRAINAGE AREA.--1,785 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--March 2010 to current year.

SEDIMENT DATA: March 2010 to current year.

REMARKS.--Sample and flow data collected for the San Joaquin River Restoration Project. Instantaneous discharges are from USGS flow measurements made concurrently with samples.

**PARTICLE-SIZE DISTRIBUTION OF SUSPENDED SEDIMENT
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

[ft³/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; A, average]

Sample date-time	Discharge, instantaneous, ft ³ /s (00061)	Temperature, water, °C (00010)	Suspended sediment concentration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)
04-29-2013 1345	1,080	12.4	8	23	48
04-29-2013 1346	1,080	12.4	3	8.7	90
04-29-2013 1348	1,080	12.4	3	8.7	92
04-29-2013 1349	1,080	12.4	A 5	A 15	A 67
04-29-2013 1350	1,080	12.4	3	8.7	75
04-29-2013 1351	1,080	12.4	6	17	63
04-29-2013 1352	1,080	12.4	A 5	A 15	A 78
04-29-2013 1353	1,080	12.4	4	12	94
04-29-2013 1354	1,080	12.4	3	8.7	92
04-29-2013 1355	1,080	12.4	A 4	A 12	A 89
04-29-2013 1356	1,080	12.4	4	12	85
04-29-2013 1357	1,080	12.4	4	12	82
04-29-2013 1358	1,080	12.4	5	15	91
05-06-2013 1318	253	16.4	5	3.4	80
05-06-2013 1320	253	16.4	8	5.5	95
05-06-2013 1321	253	16.4	5	3.4	69
05-06-2013 1322	253	16.4	A 6	A 4.1	A 79
05-06-2013 1324	253	16.4	5	3.4	93
05-06-2013 1325	253	16.4	6	4.1	53
05-06-2013 1326	253	16.4	A 5	A 3.4	A 82
05-06-2013 1327	253	16.4	5	3.4	69
05-06-2013 1328	253	16.4	5	3.4	92
05-06-2013 1330	253	16.4	4	2.7	92
05-06-2013 1331	253	16.4	A 4	A 2.7	A 85
05-06-2013 1332	253	16.4	4	2.7	93
05-06-2013 1334	253	16.4	5	3.4	86

11252275 San Joaquin River below Highway 41, near Pinedale, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 2

[ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; --, no data; <, less than]

Sample date-time	Number of sampling points, count (00063)	Discharge, instantaneous, ft ³ /s (00061)	Temperature, water, °C (00010)	Bed sediment , dry sieved, sieve diameter, percent smaller than 0.0625 mm (80164)	Bed sediment , dry sieved, sieve diameter, percent smaller than 0.125 mm (80165)	Bed sediment , dry sieved, sieve diameter, percent smaller than 0.25 mm (80166)	Bed sediment , dry sieved, sieve diameter, percent smaller than 0.5 mm (80167)	Bed sediment , dry sieved, sieve diameter, percent smaller than 1 mm (80168)	Bed sediment , dry sieved, sieve diameter, percent smaller than 2 mm (80169)
04-29-2013 1412	1	1,080	12.7	< 1	< 1	< 1	4	8	12
04-29-2013 1415	1	1,080	12.7	< 1	< 1	< 1	< 1	1	2
04-29-2013 1419	1	1,080	12.7	< 1	< 1	< 1	1	6	13
04-29-2013 1422	1	1,080	12.7	< 1	< 1	< 1	4	15	28
04-29-2013 1426	1	1,080	12.7	< 1	< 1	2	39	97	100
05-06-2013 1339	1	253	16.5	< 1	< 1	< 1	1	3	8
05-06-2013 1341	1	253	16.5	< 1	< 1	< 1	< 1	< 1	1
05-06-2013 1345	1	253	16.5	< 1	< 1	< 1	< 1	< 1	1
05-06-2013 1349	1	253	16.5	< 1	< 1	< 1	< 1	< 1	< 1
05-06-2013 1353	1	253	16.5	< 1	< 1	< 1	< 1	< 1	< 1

11252275 San Joaquin River below Highway 41, near Pinedale, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF SURFACE BED MATERIAL
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 2

[ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; --, no data; <, less than]

Sample date-time	Bed sediment , dry sieved, sieve diameter, percent smaller than 4 mm (80170)	Bed sediment , dry sieved, sieve diameter, percent smaller than 8 mm (80171)	Bed sediment , dry sieved, sieve diameter, percent smaller than 16 mm (80172)	Bed sediment , dry sieved, sieve diameter, percent smaller than 32 mm (80173)	Bed sediment , dry sieved, sieve diameter, percent smaller than 64 mm (80174)
04-29-2013 1412	14	18	21	29	100
04-29-2013 1415	3	5	8	8	100
04-29-2013 1419	16	21	32	32	100
04-29-2013 1422	34	38	49	62	100
04-29-2013 1426	--	--	--	--	--
05-06-2013 1339	14	21	41	60	100
05-06-2013 1341	3	5	15	58	100
05-06-2013 1345	2	3	10	27	100
05-06-2013 1349	1	2	7	15	100
05-06-2013 1353	< 1	< 1	3	21	100

11252275 San Joaquin River below Highway 41, near Pinedale, CA—Continued

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 1 of 4

[ft, feet; ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; --, no data; <, less than; A, average]

Sample date-time	Sampling method (82398)	Sampler type (84164)	Bag mesh size, bedload sampler, mm (30333)	Tether line used for collecting sample (yes=1) (04117)	Starting time, 24 hour clock, hour-minute (hhmm) (82073)	Ending time, 24 hour clock, hour-minute (hhmm) (82074)	Rest time on bed for bed load sample, seconds (04120)	Horizontal width of vertical, feet (04121)
04-29-2013 1433	Bedload (SEWI)	BL-3X3 BL-84, Cable	0.250	No	1433	1522	120	4.0
04-29-2013 1527	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1527	1615	120	4.0
05-06-2013 1358	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1358	1452	120	3.3
05-06-2013 1454	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1454	1540	120	3.3

PARTICLE-SIZE DISTRIBUTION OF BEDLOAD
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 2 of 4

[ft, feet; ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; --, no data; <, less than; A, average]

Sample date-time	Composited samples in cross-sectional bedload measurement, number (04118)	Verticals in composite sample, number (04119)	Number of sampling points, count (00063)	Location in cross section, distance from left bank looking downstream, ft (00009)	Stream width, ft (00004)	Discharge, instantaneous, ft ³ /s (00061)	Temperature, water, °C (00010)	Bedload sediment discharge, daily average, per unit width of river, composite samples, tons per day per foot of width (04122)	Bedload sediment discharge, tons per day (80225)
04-29-2013 1433	2	24	24	2.00	97.0	1,080	13.0	0.04	A 4.7
04-29-2013 1527	2	24	24	2.00	97.0	1,080	13.5	.06	A 4.7
05-06-2013 1358	2	20	20	1.70	66.0	253	16.8	.02	A .83
05-06-2013 1454	2	20	20	1.70	66.0	253	17.1	< .01	A .83

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PARTICLE-SIZE DISTRIBUTION OF BEDLOAD
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Part 3 of 4

[ft, feet; ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; --, no data; <, less than; A, average]

Sample date-time	Bedload sediment , sieve diameter, percent smaller than 0.0625 mm (80226)	Bedload sediment , sieve diameter, percent smaller than 0.125 mm (80227)	Bedload sediment , sieve diameter, percent smaller than 0.25 mm (80228)	Bedload sediment , sieve diameter, percent smaller than 0.5 mm (80229)	Bedload sediment , sieve diameter, percent smaller than 1 mm (80230)	Bedload sediment , sieve diameter, percent smaller than 2 mm (80231)	Bedload sediment , sieve diameter, percent smaller than 4 mm (80232)	Bedload sediment , sieve diameter, percent smaller than 8 mm (80233)	Bedload sediment , sieve diameter, percent smaller than 16 mm (80234)
04-29-2013 1433	< 1	< 1	< 1	< 1	1	2	2	2	3
04-29-2013 1527	< 1	< 1	< 1	18	59	91	97	99	100
05-06-2013 1358	< 1	< 1	< 1	7	27	53	67	75	82
05-06-2013 1454	< 1	1	1	13	42	71	87	92	100

**PARTICLE-SIZE DISTRIBUTION OF
BEDLOAD
WATER YEAR OCTOBER 2012 TO
SEPTEMBER 2013**

Part 4 of 4

[ft, feet; ft³/s, cubic feet per second;
mm, millimeters; °C, degrees Celsius;
--, no data; <, less than; A, average]

Sample date-time	Bedload sediment , sieve diameter, percent smaller than 32 mm (80235)	Bedload sediment , sieve diameter, percent smaller than 64 mm (80236)
04-29-2013 1433	3	100
04-29-2013 1527	--	--
05-06-2013 1358	100	--
05-06-2013 1454	--	--