

Water-Data Report 2013

**11252975 San Joaquin River at Skaggs Bridge, near Ripperdan, CA**

San Joaquin River Basin

LOCATION.--Lat 36°49'19", long 120°03'34" referenced to North American Datum of 1983, in NW ¼ NW ¼ sec.7, T.13 S., R.18 E., Fresno County, CA, Hydrologic Unit 18040001, on left bank, 420 ft downstream of Madera Avenue (Highway 145 Bridge), at Skaggs Bridge Park, and 1.9 mi south of Ripperdan.

DRAINAGE AREA.--1,809 mi<sup>2</sup>.

**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**

[ft<sup>3</sup>/s, cubic feet per second; mg/L, milligrams per liter; mm, millimeters; °C, degrees Celsius; A, average]

Sample date-time	Discharge, Tempera- instanta- ture, neous, water, ft³/s °C (00061) (00010)	Suspended sediment concen- tration, mg/L (80154)	Suspended sediment discharge, tons per day (80155)	Suspended sediment, sieve diameter, percent smaller than 0.0625 mm (70331)	
05-07-2013 1026	268	19.2	7	5.1	79
05-07-2013 1027	268	19.2	7	5.1	95
05-07-2013 1029	268	19.2	6	4.3	96
05-07-2013 1030	268	19.2	A 7	A 5.1	A 92
05-07-2013 1031	268	19.2	7	5.1	95
05-07-2013 1033	268	19.2	8	5.8	95
05-07-2013 1036	268	19.2	A 6	A 4.3	A 92
05-07-2013 1037	268	19.2	6	4.3	88
05-07-2013 1042	268	19.2	6	4.3	92
05-07-2013 1043	268	19.2	A 6	A 4.3	A 91
05-07-2013 1045	268	19.2	4	2.9	90
05-07-2013 1046	268	19.2	6	4.3	94
05-07-2013 1048	268	19.2	5	3.6	93

## 11252975 San Joaquin River at Skaggs Bridge, near Ripperdan, CA—Continued

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

Part 1 of 2

[ft<sup>3</sup>/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; <, less than]

Sample date-time	Number of sampling points, count (00063)	Discharge, instantaneous, ft <sup>3</sup> /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)
05-07-2013 1101	1	268	19.3	< 1	1	6	15	27	36
05-07-2013 1104	1	268	19.3	< 1	< 1	4	12	19	25
05-07-2013 1107	1	268	19.3	< 1	1	6	17	27	37
05-07-2013 1110	1	268	19.3	< 1	< 1	5	11	17	24
05-07-2013 1113	1	268	19.3	< 1	1	7	13	23	35

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

Part 2 of 2

[ft<sup>3</sup>/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; <, 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)
05-07-2013 1101	43	56	85	100
05-07-2013 1104	34	46	62	100
05-07-2013 1107	49	62	72	100
05-07-2013 1110	32	43	64	100
05-07-2013 1113	43	52	71	100

## 11252975 San Joaquin River at Skaggs Bridge, near Ripperdan, CA—Continued

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

Part 1 of 3

[ft, feet; ft<sup>3</sup>/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)
05-07-2013 1132	Bedload (SEWI)	BL-3X3 BL-84, Cable	0.250	No	1132	1224	120	4.5
05-07-2013 1230	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1230	1320	120	4.5

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

Part 2 of 3

[ft, feet; ft<sup>3</sup>/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 <sup>3</sup> /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)
05-07-2013 1132	2	20	20	2.30	90.0	268	19.8	< .01	A .21
05-07-2013 1230	2	20	20	2.30	90.0	268	20.0	< .01	A .21

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

Part 3 of 3

[ft, feet; ft<sup>3</sup>/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)
05-07-2013 1132	< 1	< 1	2	47	78	93	99	100
05-07-2013 1230	< 1	2	4	55	86	98	100	--