

Water-Data Report 2013

11253058 San Joaquin River at Gravelly Ford Canal, near Kerman, CA

San Joaquin River Basin

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, instanta- neous, ft ³ /s (00061)	Tempera- ture, water, °C (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)
05-08-2013 1015	207	19.2	12	6.7	100
05-08-2013 1016	207	19.2	12	6.7	86
05-08-2013 1019	207	19.2	A 11	A 6.1	A 91
05-08-2013 1020	207	19.2	10	5.6	91
05-08-2013 1021	207	19.2	11	6.1	86
05-08-2013 1022	207	19.2	A 11	A 6.1	A 90
05-08-2013 1023	207	19.2	12	6.7	83
05-08-2013 1024	207	19.2	12	6.7	88
05-08-2013 1025	207	19.2	10	5.6	100
05-08-2013 1026	207	19.2	A 11	A 6.1	A 89
05-08-2013 1027	207	19.2	12	6.7	83
05-08-2013 1028	207	19.2	10	5.6	95

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

Part 1 of 2

[ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; <, 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)
05-08-2013 1037	1	207	19.3	< 1	< 1	3	10	16	27
05-08-2013 1039	1	207	19.3	< 1	< 1	3	13	21	29
05-08-2013 1041	1	207	19.3	< 1	< 1	2	10	21	31
05-08-2013 1043	1	207	19.3	< 1	< 1	1	4	11	18
05-08-2013 1045	1	207	19.3	< 1	< 1	1	7	12	20

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

Part 2 of 2

[ft³/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)
05-08-2013 1037	37	52	79	100
05-08-2013 1039	37	51	89	100
05-08-2013 1041	39	52	84	100
05-08-2013 1043	24	35	52	100
05-08-2013 1045	28	37	65	100

11253058 San Joaquin River at Gravelly Ford Canal, near Kerman, CA—Continued

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

Part 1 of 3

[ft, feet; ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; <, 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)
05-08-2013 1049	Bedload (SEWI)	BL-3X3 BL-84, Cable	0.250	No	1049	1131	120	3.6
05-08-2013 1135	Bedload (SEWI)	BL-3X3 BL-84, Cable	.250	No	1135	1221	120	3.6

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

Part 2 of 3

[ft, feet; ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; <, 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)
05-08-2013 1049	2	20	20	1.80	72.0	207	19.7	< .01	A .06
05-08-2013 1135	2	20	20	1.80	72.0	207	20.0	< .01	A .06

11253058 San Joaquin River at Gravelly Ford Canal, near Kerman, CA—Continued

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

Part 3 of 3

[ft, feet; ft³/s, cubic feet per second; mm, millimeters; °C, degrees Celsius; <, 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)
05-08-2013 1049	< 1	3	5	46	78	95	100
05-08-2013 1135	< 1	2	3	48	95	98	100