

Water-Data Report 2011

## 11046050 Santa Margarita River at Mouth, near Oceanside, CA

Santa Margarita River Basin

LOCATION.--Lat 33°14'08", long 117°24'27" referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.9, T.11 S., R.5 W., San Diego County, CA, Hydrologic Unit 18070302, on Camp Joseph H. Pendleton Naval Reservation, on right bank, 300 ft downstream from bridge on Interstate Highway 5, 0.5 mi upstream from mouth, and 3.5 mi northwest of Oceanside.

DRAINAGE AREA.--744 mi<sup>2</sup>.

### **SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1989 to Oct. 20, 2010. Record was suspended due to inaccessibility of gage. Unpublished records for water year 1989 available in files of the U.S. Geological Survey.

GAGE.--Water-stage recorder. Datum of gage is 2.78 ft below NGVD of 1929.

REMARKS.--Records rated fair. Gage height generally affected by tide. See schematic diagram of Santa Margarita River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum gage height, 15.10 ft, from floodmarks and hydrographers' notes, Jan. 16, 1993; minimum recorded gage height, 1.66 ft, Feb. 09, 2005.

## 11046050 Santa Margarita River at Mouth, near Oceanside, CA—Continued

<b>GAGE HEIGHT, FEET</b>		
<b>WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011</b>		
<b>Day</b>	<b>Max</b>	<b>Min</b>
<b>October</b>		
<b>1</b>	5.34	5.23
<b>2</b>	5.42	5.32
<b>3</b>	5.55	5.41
<b>4</b>	5.64	5.53
<b>5</b>	5.70	5.63
<b>6</b>	5.74	5.67
<b>7</b>	5.77	5.72
<b>8</b>	5.79	5.74
<b>9</b>	5.79	5.76
<b>10</b>	5.78	5.77
<b>11</b>	5.78	5.77
<b>12</b>	5.78	5.76
<b>13</b>	5.77	5.76
<b>14</b>	5.77	5.75
<b>15</b>	5.76	5.76
<b>16</b>	5.77	5.76
<b>17</b>	5.77	5.76
<b>18</b>	5.78	5.76
<b>19</b>	6.26	5.77
<b>20</b>	6.44	6.26
<b>21</b>	---	---
<b>22</b>	---	---
<b>23</b>	---	---
<b>24</b>	---	---
<b>25</b>	---	---
<b>26</b>	---	---
<b>27</b>	---	---
<b>28</b>	---	---
<b>29</b>	---	---
<b>30</b>	---	---
<b>31</b>	---	---
<b>Month</b>	---	---

**11046050 Santa Margarita River at Mouth, near Oceanside, CA—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF DAILY RECORD.--October 1993 to Oct. 20, 2010.

DISSOLVED OXYGEN: October 1993 to Sept. 30, 2010.

pH: October 1993 to Oct. 20, 2010.

SPECIFIC CONDUCTANCE: October 1993 to Oct. 20, 2010.

WATER TEMPERATURE: October 1993 to Oct. 20, 2010.

INSTRUMENTATION.--Water-quality monitor since October 1993.

REMARKS.--Interruptions in record at times due to malfunction of recording equipment. Record was suspended on Oct. 21, 2010, due to inaccessibility of gage.

Dissolved oxygen record was not used due to corrections exceeding maximum allowable limits.

pH records rated good.

Specific conductance records rated good.

Water temperature records rated excellent.

EXTREMES FOR PERIOD OF DAILY RECORD.--

DISSOLVED OXYGEN: Maximum recorded, >20.0 mg/L, several days in several years; minimum recorded, <0.20 mg/L, several days in several years.

pH: Maximum recorded, 9.7 standard units, Apr. 28, May 1, 2, 2009; minimum recorded, 6.1 standard units, July 5, 2005.

SPECIFIC CONDUCTANCE: Maximum recorded, 58,700 microsiemens, June 21, 2002; minimum recorded, 119 microsiemens, Feb. 24, 1998.

WATER TEMPERATURE: Maximum recorded, 32.0°C, July 29, 1995, June 9, Aug. 14, 16, 1996; minimum recorded, 5.0°C, Nov. 21, 1994.

## 11046050 Santa Margarita River at Mouth, near Oceanside, CA—Continued

**PH, WATER, UNFILTERED, FIELD, STANDARD UNITS**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

<b>Day</b>	<b>Max</b>	<b>Min</b>	<b>Median</b>
<b>October</b>			
<b>1</b>	8.8	8.6	8.7
<b>2</b>	8.6	8.4	8.5
<b>3</b>	8.6	8.4	8.5
<b>4</b>	8.5	7.9	8.3
<b>5</b>	8.3	8.1	8.2
<b>6</b>	8.2	8.1	8.2
<b>7</b>	8.4	7.9	8.2
<b>8</b>	8.7	7.8	8.3
<b>9</b>	8.7	7.9	8.5
<b>10</b>	8.7	8.3	8.5
<b>11</b>	8.5	8.3	8.4
<b>12</b>	8.7	8.2	8.6
<b>13</b>	8.7	8.4	8.5
<b>14</b>	8.9	8.4	8.7
<b>15</b>	8.8	8.6	8.7
<b>16</b>	9.0	8.6	8.7
<b>17</b>	8.9	8.6	8.7
<b>18</b>	8.8	8.6	8.8
<b>19</b>	8.9	8.7	8.8
<b>20</b>	9.1	8.7	8.9
<b>21</b>	---	---	---
<b>22</b>	---	---	---
<b>23</b>	---	---	---
<b>24</b>	---	---	---
<b>25</b>	---	---	---
<b>26</b>	---	---	---
<b>27</b>	---	---	---
<b>28</b>	---	---	---
<b>29</b>	---	---	---
<b>30</b>	---	---	---
<b>31</b>	---	---	---
<b>Max</b>	---	---	---
<b>Min</b>	---	---	---

## 11046050 Santa Margarita River at Mouth, near Oceanside, CA—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED,  
MICROSIEMENS PER CENTIMETER  
AT 25 DEGREES CELSIUS  
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

<b>Day</b>	<b>Max</b>	<b>Min</b>	<b>Median</b>
<b>October</b>			
<b>1</b>	45,300	45,000	45,200
<b>2</b>	45,200	44,700	45,000
<b>3</b>	45,800	44,700	45,100
<b>4</b>	46,700	45,500	46,000
<b>5</b>	47,800	46,700	47,200
<b>6</b>	48,000	46,600	47,400
<b>7</b>	46,900	46,400	46,600
<b>8</b>	46,800	46,000	46,400
<b>9</b>	46,500	45,500	46,200
<b>10</b>	46,400	45,500	45,900
<b>11</b>	46,000	45,500	45,900
<b>12</b>	46,300	45,900	46,100
<b>13</b>	46,200	45,900	46,100
<b>14</b>	46,900	46,100	46,700
<b>15</b>	47,300	46,900	47,200
<b>16</b>	47,600	47,200	47,500
<b>17</b>	47,600	47,500	47,600
<b>18</b>	47,700	47,600	47,600
<b>19</b>	47,800	37,100	47,700
<b>20</b>	43,000	27,400	38,300
<b>21</b>	---	---	---
<b>22</b>	---	---	---
<b>23</b>	---	---	---
<b>24</b>	---	---	---
<b>25</b>	---	---	---
<b>26</b>	---	---	---
<b>27</b>	---	---	---
<b>28</b>	---	---	---
<b>29</b>	---	---	---
<b>30</b>	---	---	---
<b>31</b>	---	---	---
<b>Max</b>	---	---	---
<b>Min</b>	---	---	---

## 11046050 Santa Margarita River at Mouth, near Oceanside, CA—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011**

Day	Max	Min	Median
<b>October</b>			
<b>1</b>	23.8	22.7	23.3
<b>2</b>	22.8	22.6	22.7
<b>3</b>	23.8	22.6	22.9
<b>4</b>	23.8	21.9	22.4
<b>5</b>	21.9	19.6	19.8
<b>6</b>	19.8	19.3	19.6
<b>7</b>	21.1	19.6	19.8
<b>8</b>	21.1	19.5	19.9
<b>9</b>	21.5	19.4	20.0
<b>10</b>	20.4	19.4	20.0
<b>11</b>	20.1	19.7	20.0
<b>12</b>	20.7	20.1	20.4
<b>13</b>	20.7	20.3	20.5
<b>14</b>	21.8	20.7	21.4
<b>15</b>	21.9	21.5	21.6
<b>16</b>	21.6	21.4	21.5
<b>17</b>	21.4	21.0	21.2
<b>18</b>	21.0	20.6	20.7
<b>19</b>	20.9	18.3	20.7
<b>20</b>	20.2	18.2	19.6
<b>21</b>	---	---	---
<b>22</b>	---	---	---
<b>23</b>	---	---	---
<b>24</b>	---	---	---
<b>25</b>	---	---	---
<b>26</b>	---	---	---
<b>27</b>	---	---	---
<b>28</b>	---	---	---
<b>29</b>	---	---	---
<b>30</b>	---	---	---
<b>31</b>	---	---	---
<b>Max</b>	---	---	---
<b>Min</b>	---	---	---