

Water-Data Report 2008

**14137002 SANDY RIVER BELOW MARMOT DAM, NEAR MARMOT, OR**

Lower Columbia Basin  
Lower Columbia-Sandy Subbasin

LOCATION.--Lat 45°23'59", long 122°08'10" referenced to North American Datum of 1927, in NW ¼ sec.18, T.2 S., R.6 E., Clackamas County, OR, Hydrologic Unit 17080001, on right bank, 0.6 mi WNW of Marmot, 0.2 mi downstream from former Marmot Dam of Portland General Electric Co., 7.7 mi downstream from Salmon River and at mile 29.8.

DRAINAGE AREA.--264 mi<sup>2</sup>.

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--

TURBIDITY: February 2006 to July 2008 (discontinued).

INSTRUMENTATION.--Water-quality monitor. Any use of trade, product, or firm names in this publication is for descriptive purposes only and does not imply endorsement by the U.S. Government.

REMARKS.--

TURBIDITY: Records excellent except those for Jan. 17 to Mar. 21, which are fair. Data collected using an Analite 395 turbidity sensor. Manufacturer's stated precision is +/- 1 percent of reading at 25°C. Formazin Nephelometric Unit values below 10 are reported to nearest 0.1 FNU. Negative recorded values are reported as 0.0 FNU.

EXTREMES FOR PERIOD OF RECORD.--

TURBIDITY: Maximum recorded, >1,000 FNU Nov. 15-18, Dec. 3, 2007, but may have been >1,000 FNU during periods of missing record; minimum recorded, 0.0 FNU on several days during March, April, 2006.

EXTREMES FOR CURRENT YEAR.--

TURBIDITY: Maximum recorded, >1,000 FNU Nov. 15-18, Dec. 3, but may have been >1,000 FNU during periods of missing record; minimum recorded, 0.6 FNU Nov. 8, 9.

14137002 SANDY RIVER BELOW MARMOT DAM, NEAR MARMOT, OR—Continued

TURBIDITY, WATER, UNFILT, NEAR IR LED LIGHT, 780-900 NM, DETECT ANG. 90 DEG, FORMAZIN NEPHELOMETRIC UNITS  
 WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

[>, greater than]

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	164	11	86	---	---	---	1.7	0.7	1.1	---	---	---
2	40	13	22	---	---	---	---	---	---	---	---	---
3	149	13	18	---	---	---	>1,000	52	352	---	---	---
4	94	24	56	---	---	---	---	---	---	---	---	---
5	25	12	17	---	---	---	---	---	---	---	---	---
6	16	7.3	9.5	---	---	---	---	---	---	---	---	---
7	12	7.2	8.0	---	---	---	---	---	---	---	---	---
8	42	12	17	---	---	---	---	---	---	---	---	---
9	27	9.3	14	1.8	0.6	0.6	---	---	---	---	---	---
10	21	7.3	9.7	52	0.9	6.5	---	---	---	---	---	---
11	10	6.8	8.2	31	1.3	2.2	---	---	---	---	---	---
12	10	5.7	7.0	176	0.7	1.3	---	---	---	---	---	---
13	7.0	5.2	6.0	163	2.5	10	---	---	---	---	---	---
14	5.9	5.0	5.4	687	5.7	12	---	---	---	---	---	---
15	81	5.1	5.5	>1,000	6.0	11	---	---	---	---	---	---
16	150	5.3	6.7	>1,000	5.8	13	---	---	---	---	---	---
17	8.0	4.9	5.9	>1,000	---	---	---	---	---	---	---	---
18	25	5.8	6.7	>1,000	---	---	---	---	---	4.5	2.2	2.6
19	941	23	132	---	---	---	---	---	---	3.1	2.0	2.4
20	936	26	269	---	---	---	---	---	---	3.6	1.9	2.3
21	---	---	---	---	---	---	---	---	---	---	---	---
22	---	---	---	---	---	---	---	---	---	---	---	---
23	---	---	---	---	---	---	---	---	---	---	---	---
24	---	---	---	---	---	---	---	---	---	5.9	3.8	4.5
25	---	---	---	---	---	---	---	---	---	20	4.4	5.6
26	---	---	---	---	---	---	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
28	---	---	---	---	---	---	---	---	---	---	---	---
29	---	---	---	---	---	---	---	---	---	---	---	---
30	---	---	---	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
Max	---	---	---	---	---	---	---	---	---	---	---	---
Min	---	---	---	---	---	---	---	---	---	---	---	---

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 WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

[>, greater than]

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
<b>1</b>	---	---	---	14	4.8	6.7	5.6	2.5	3.1	4.7	2.4	2.9
<b>2</b>	---	---	---	5.1	3.4	3.9	3.9	2.4	2.8	4.0	2.4	2.7
<b>3</b>	---	---	---	3.6	3.0	3.3	3.9	2.6	3.0	4.4	2.4	2.9
<b>4</b>	---	---	---	5.4	2.7	3.0	3.9	2.6	3.0	3.9	2.6	3.0
<b>5</b>	---	---	---	5.4	2.6	2.7	4.2	2.6	3.0	7.5	3.3	4.0
<b>6</b>	---	---	---	4.2	2.7	2.8	7.2	2.7	3.1	8.4	4.1	5.9
<b>7</b>	984	3.3	7.2	4.9	2.7	2.8	14	2.8	3.5	5.1	3.3	3.9
<b>8</b>	---	---	---	3.3	2.8	2.9	7.9	2.5	3.3	7.4	2.9	3.3
<b>9</b>	5.3	3.0	4.0	3.6	2.8	3.0	6.0	2.5	3.0	4.1	2.8	3.1
<b>10</b>	4.0	2.8	3.3	5.2	2.8	3.1	4.0	2.6	3.0	4.0	2.6	3.0
<b>11</b>	17	2.4	3.2	6.1	4.1	5.0	3.9	2.2	2.7	5.4	3.0	4.0
<b>12</b>	241	2.4	3.5	4.3	3.6	3.9	7.3	2.4	3.4	4.3	2.8	3.3
<b>13</b>	12	2.4	3.2	7.2	3.9	4.1	9.4	3.7	5.1	4.9	2.6	3.1
<b>14</b>	3.4	2.2	2.4	6.4	4.3	4.8	9.2	3.3	4.5	30	3.3	15
<b>15</b>	2.8	2.1	2.3	4.9	4.3	4.5	6.0	2.6	3.3	---	---	---
<b>16</b>	3.7	2.0	2.2	4.7	4.1	4.3	3.6	2.5	2.9	---	---	---
<b>17</b>	7.2	2.0	2.1	4.6	3.8	4.1	3.5	2.4	2.7	---	---	---
<b>18</b>	3.6	2.0	2.1	27	4.0	13	3.7	2.5	2.8	---	---	---
<b>19</b>	2.5	2.0	2.2	15	6.4	8.5	3.7	2.2	2.6	79	35	46
<b>20</b>	3.9	2.1	2.3	7.1	5.1	5.7	4.1	2.0	2.3	44	33	36
<b>21</b>	---	---	---	---	---	---	7.8	2.0	2.4	63	28	36
<b>22</b>	---	---	---	---	---	---	15	2.1	2.6	48	19	28
<b>23</b>	---	---	---	---	---	---	8.9	2.1	2.7	59	17	24
<b>24</b>	---	---	---	---	---	---	3.4	1.8	2.6	48	10	13
<b>25</b>	8.3	2.3	2.8	---	---	---	4.8	1.8	2.2	17	7.7	9.1
<b>26</b>	---	---	---	5.4	2.7	3.2	3.1	1.7	2.2	11	7.3	8.1
<b>27</b>	3.4	2.4	2.6	4.2	2.7	3.2	6.3	2.1	2.6	12	6.9	7.7
<b>28</b>	3.3	2.4	2.6	4.4	2.5	3.0	7.3	2.9	3.6	19	6.4	7.5
<b>29</b>	8.0	2.6	3.0	4.6	2.4	2.8	7.4	3.7	5.4	24	5.9	7.2
<b>30</b>	---	---	---	5.0	2.5	2.7	5.0	2.7	3.5	13	6.1	7.0
<b>31</b>	---	---	---	3.8	2.4	2.8	---	---	---	8.4	5.4	6.5
<b>Max</b>	---	---	---	---	---	---	15	3.7	5.4	---	---	---
<b>Min</b>	---	---	---	---	---	---	3.1	1.7	2.2	---	---	---

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[>, greater than]

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	<b>June</b>			<b>July</b>			<b>August</b>			<b>September</b>		
1	6.9	4.8	5.5	---	---	---	---	---	---	---	---	---
2	17	4.9	6.9	---	---	---	---	---	---	---	---	---
3	17	7.2	12	---	---	---	---	---	---	---	---	---
4	12	6.1	8.3	---	---	---	---	---	---	---	---	---
5	6.8	4.2	4.6	---	---	---	---	---	---	---	---	---
6	8.0	4.0	4.9	---	---	---	---	---	---	---	---	---
7	14	6.7	9.7	---	---	---	---	---	---	---	---	---
8	8.5	4.0	4.8	---	---	---	---	---	---	---	---	---
9	5.4	3.5	4.3	---	---	---	---	---	---	---	---	---
10	13	4.7	5.8	---	---	---	---	---	---	---	---	---
11	9.0	4.4	6.4	---	---	---	---	---	---	---	---	---
12	5.5	3.3	3.8	---	---	---	---	---	---	---	---	---
13	6.1	3.3	4.1	---	---	---	---	---	---	---	---	---
14	8.4	3.4	3.9	---	---	---	---	---	---	---	---	---
15	4.2	2.7	3.0	---	---	---	---	---	---	---	---	---
16	6.0	2.5	2.9	---	---	---	---	---	---	---	---	---
17	4.4	2.6	3.4	---	---	---	---	---	---	---	---	---
18	3.6	2.4	2.7	---	---	---	---	---	---	---	---	---
19	3.6	2.3	2.6	---	---	---	---	---	---	---	---	---
20	4.5	2.3	2.6	---	---	---	---	---	---	---	---	---
21	5.9	3.4	4.4	---	---	---	---	---	---	---	---	---
22	7.5	3.4	4.7	---	---	---	---	---	---	---	---	---
23	4.9	2.7	3.4	---	---	---	---	---	---	---	---	---
24	4.3	2.5	3.0	---	---	---	---	---	---	---	---	---
25	4.6	2.5	3.1	---	---	---	---	---	---	---	---	---
26	4.6	2.3	3.6	---	---	---	---	---	---	---	---	---
27	9.3	3.3	4.7	---	---	---	---	---	---	---	---	---
28	36	9.3	14	---	---	---	---	---	---	---	---	---
29	145	36	82	---	---	---	---	---	---	---	---	---
30	108	47	63	---	---	---	---	---	---	---	---	---
31	---	---	---	---	---	---	---	---	---	---	---	---
<b>Max</b>	145	47	82	---	---	---	---	---	---	---	---	---
<b>Min</b>	3.6	2.3	2.6	---	---	---	---	---	---	---	---	---