



Water-Data Report 2007

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC

Roanoke Basin
Lower Roanoke Subbasin

LOCATION.--Lat 35°54'43.79", long 76°49'03.99" referenced to North American Datum of 1983, Bertie County, NC, Hydrologic Unit 03010107, on pier at San Souci ferry near State Road 1500 and 9.5 mi southeast of Windsor.

DRAINAGE AREA.--293 mi².

WATER-QUALITY RECORDS

PERIOD OF RECORD.--Water years 2006, 2007.

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: June to November 2006, March 2007.

pH: June to November 2006, March 2007.

WATER TEMPERATURE: June to November 2006, March 2007.

DISSOLVED OXYGEN: June to November 2006, March 2007.

DISSOLVED OXYGEN, PERCENT SATURATION: June to November 2006, March 2007.

INSTRUMENTATION.--Water-quality monitor with satellite telemetry June to November 2006, March 2007.

REMARKS.--Station operated in cooperation with the U.S. Army Corps of Engineers. Dissolved oxygen, percent saturation, is computed using a barometric pressure of 760 mm of Hg.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 187 microsiemens, September 1, 2006; minimum recorded, 34 microsiemens, September 4, 2006.

pH: Maximum recorded, 7.1 standard units, August 30, 2006; minimum recorded, 5.0 standard units, September 3, 4, 5, 6, 2006.

WATER TEMPERATURE: Maximum recorded, 33.7°C, July 19, 2006; minimum recorded, 11.8°C, March 22, 2007.

DISSOLVED OXYGEN: Maximum recorded, 9.1 mg/L, August 28, 2006; minimum recorded, 0.0 mg/L, July 13, 14, 18, 19, 2006.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 121%, August 28, 2006; minimum recorded, 0%, July 13, 14, 18, 19, 2006.

EXTREMES FOR CURRENT PERIOD.--

SPECIFIC CONDUCTANCE: Maximum recorded, 119 microsiemens, October 8; minimum recorded, 63 microsiemens, October 1.

pH: Maximum recorded, 7.0 standard units, October 5, 8; minimum recorded, 5.8 standard units, March 20.

WATER TEMPERATURE: Maximum recorded, 25.2°C, October 2; minimum recorded, 11.8°C, March 22.

DISSOLVED OXYGEN: Maximum recorded, 8.8 mg/L, March 20; minimum recorded, 1.1 mg/L, October 5, 11.

DISSOLVED OXYGEN, PERCENT SATURATION: Maximum recorded, 88%, March 20, 26; minimum recorded, 12%, October 11.

**WATER-QUALITY DATA
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

[Remark codes: <, less than.]

Date	Time	Instantaneous discharge, cfs (00061)	Dissolved oxygen, mg/L (00300)	pH, water, unfltrd field, units (00400)	Specific conductance, wat unfltrd std 25 degC (00095)	Temperature, deg C (00010)	BOD, water, unfltrd 5 day, mg/L (00310)
Oct 19...	0830	739	3.5	6.3	74	19.4	<2.0
Nov 07...	0930	521	4.4	6.1	83	14.0	1.4

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	83	63	71	75	72	74	---	---	---	---	---	---
2	72	65	68	77	74	75	---	---	---	---	---	---
3	72	65	68	78	76	77	---	---	---	---	---	---
4	73	66	70	79	77	78	---	---	---	---	---	---
5	114	66	82	79	78	78	---	---	---	---	---	---
6	106	76	87	87	78	80	---	---	---	---	---	---
7	76	68	70	86	79	80	---	---	---	---	---	---
8	119	72	99	---	---	---	---	---	---	---	---	---
9	87	68	73	---	---	---	---	---	---	---	---	---
10	83	68	73	---	---	---	---	---	---	---	---	---
11	68	66	67	---	---	---	---	---	---	---	---	---
12	77	68	71	---	---	---	---	---	---	---	---	---
13	81	75	79	---	---	---	---	---	---	---	---	---
14	78	66	71	---	---	---	---	---	---	---	---	---
15	75	67	70	---	---	---	---	---	---	---	---	---
16	86	70	77	---	---	---	---	---	---	---	---	---
17	81	70	74	---	---	---	---	---	---	---	---	---
18	88	70	77	---	---	---	---	---	---	---	---	---
19	74	66	70	---	---	---	---	---	---	---	---	---
20	71	67	69	---	---	---	---	---	---	---	---	---
21	75	67	69	---	---	---	---	---	---	---	---	---
22	68	67	67	---	---	---	---	---	---	---	---	---
23	67	66	66	---	---	---	---	---	---	---	---	---
24	67	66	66	---	---	---	---	---	---	---	---	---
25	67	66	66	---	---	---	---	---	---	---	---	---
26	69	67	67	---	---	---	---	---	---	---	---	---
27	87	69	76	---	---	---	---	---	---	---	---	---
28	88	69	74	---	---	---	---	---	---	---	---	---
29	90	69	72	---	---	---	---	---	---	---	---	---
30	77	71	72	---	---	---	---	---	---	---	---	---
31	74	72	72	---	---	---	---	---	---	---	---	---
Month	119	63	73	---	---	---	---	---	---	---	---	---

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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21	---	---	---	72	69	70	---	---	---	---	---	---
22	---	---	---	76	71	74	---	---	---	---	---	---
23	---	---	---	78	75	76	---	---	---	---	---	---
24	---	---	---	79	77	78	---	---	---	---	---	---
25	---	---	---	81	77	79	---	---	---	---	---	---
26	---	---	---	78	73	76	---	---	---	---	---	---
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0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

**SPECIFIC CONDUCTANCE, WATER, UNFILTERED, MICROSIEMENS PER CENTIMETER AT 25 DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	October			November			December			January		
1	6.5	6.2	6.3	6.0	5.9	6.0	---	---	---	---	---	---
2	6.5	6.1	6.3	6.0	5.9	6.0	---	---	---	---	---	---
3	6.3	6.2	6.2	6.0	5.9	5.9	---	---	---	---	---	---
4	6.4	6.2	6.3	6.0	5.9	6.0	---	---	---	---	---	---
5	7.0	6.2	6.3	6.0	5.9	6.0	---	---	---	---	---	---
6	6.8	6.3	6.5	6.2	6.0	6.0	---	---	---	---	---	---
7	6.3	6.2	6.3	6.2	6.0	6.0	---	---	---	---	---	---
8	7.0	6.3	6.6	---	---	---	---	---	---	---	---	---
9	6.6	6.2	6.3	---	---	---	---	---	---	---	---	---
10	6.4	6.2	6.3	---	---	---	---	---	---	---	---	---
11	6.2	6.1	6.2	---	---	---	---	---	---	---	---	---
12	6.4	6.2	6.2	---	---	---	---	---	---	---	---	---
13	6.5	6.3	6.4	---	---	---	---	---	---	---	---	---
14	6.3	6.1	6.2	---	---	---	---	---	---	---	---	---
15	6.4	6.2	6.3	---	---	---	---	---	---	---	---	---
16	6.8	6.4	6.5	---	---	---	---	---	---	---	---	---
17	6.6	6.3	6.4	---	---	---	---	---	---	---	---	---
18	6.8	6.0	6.4	---	---	---	---	---	---	---	---	---
19	6.1	5.9	6.0	---	---	---	---	---	---	---	---	---
20	6.0	5.9	6.0	---	---	---	---	---	---	---	---	---
21	6.1	5.9	6.0	---	---	---	---	---	---	---	---	---
22	6.0	5.9	5.9	---	---	---	---	---	---	---	---	---
23	6.0	5.9	5.9	---	---	---	---	---	---	---	---	---
24	6.0	5.9	5.9	---	---	---	---	---	---	---	---	---
25	6.0	5.9	6.0	---	---	---	---	---	---	---	---	---
26	6.0	6.0	6.0	---	---	---	---	---	---	---	---	---
27	6.3	6.0	6.2	---	---	---	---	---	---	---	---	---
28	6.4	6.0	6.2	---	---	---	---	---	---	---	---	---
29	6.4	6.0	6.0	---	---	---	---	---	---	---	---	---
30	6.2	6.0	6.0	---	---	---	---	---	---	---	---	---
31	6.0	5.9	6.0	---	---	---	---	---	---	---	---	---
Max	7.0	6.4	6.6	---	---	---	---	---	---	---	---	---
Min	6.0	5.9	5.9	---	---	---	---	---	---	---	---	---

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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21	---	---	---	6.0	5.9	6.0	---	---	---	---	---	---
22	---	---	---	6.0	5.9	6.0	---	---	---	---	---	---
23	---	---	---	6.0	5.9	6.0	---	---	---	---	---	---
24	---	---	---	6.2	5.9	6.0	---	---	---	---	---	---
25	---	---	---	6.3	6.0	6.1	---	---	---	---	---	---
26	---	---	---	6.3	6.0	6.1	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
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0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

PH, WATER, UNFILTERED, FIELD, STANDARD UNITS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Median	Max	Min	Median	Max	Min	Median	Max	Min	Median
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
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0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	24.6	22.4	23.2	19.0	16.0	16.7	---	---	---	---	---	---
2	25.2	22.2	23.1	17.2	16.0	16.7	---	---	---	---	---	---
3	23.9	22.0	22.5	16.0	15.0	15.5	---	---	---	---	---	---
4	24.6	22.2	22.7	15.5	14.2	14.8	---	---	---	---	---	---
5	24.8	22.3	23.0	15.3	13.9	14.4	---	---	---	---	---	---
6	23.0	22.2	22.7	14.7	13.5	14.2	---	---	---	---	---	---
7	22.8	21.6	22.0	14.4	13.8	14.1	---	---	---	---	---	---
8	22.2	21.6	21.9	---	---	---	---	---	---	---	---	---
9	22.4	21.2	21.7	---	---	---	---	---	---	---	---	---
10	22.8	21.4	22.0	---	---	---	---	---	---	---	---	---
11	22.4	21.4	21.6	---	---	---	---	---	---	---	---	---
12	22.4	21.2	21.5	---	---	---	---	---	---	---	---	---
13	21.5	20.4	20.8	---	---	---	---	---	---	---	---	---
14	21.1	19.9	20.3	---	---	---	---	---	---	---	---	---
15	21.7	19.3	19.8	---	---	---	---	---	---	---	---	---
16	20.0	18.9	19.4	---	---	---	---	---	---	---	---	---
17	19.5	19.2	19.3	---	---	---	---	---	---	---	---	---
18	20.2	19.2	19.5	---	---	---	---	---	---	---	---	---
19	21.3	19.3	19.8	---	---	---	---	---	---	---	---	---
20	21.1	19.4	20.1	---	---	---	---	---	---	---	---	---
21	21.1	19.3	19.9	---	---	---	---	---	---	---	---	---
22	19.6	18.9	19.2	---	---	---	---	---	---	---	---	---
23	19.3	18.2	18.8	---	---	---	---	---	---	---	---	---
24	18.2	17.1	17.5	---	---	---	---	---	---	---	---	---
25	17.1	16.3	16.6	---	---	---	---	---	---	---	---	---
26	17.4	15.8	16.4	---	---	---	---	---	---	---	---	---
27	16.3	15.8	16.0	---	---	---	---	---	---	---	---	---
28	17.1	15.8	16.2	---	---	---	---	---	---	---	---	---
29	16.3	15.7	16.0	---	---	---	---	---	---	---	---	---
30	18.5	15.5	16.4	---	---	---	---	---	---	---	---	---
31	17.2	15.8	16.2	---	---	---	---	---	---	---	---	---
Month	25.2	15.5	19.9	---	---	---	---	---	---	---	---	---

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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21	---	---	---	12.8	12.1	12.3	---	---	---	---	---	---
22	---	---	---	14.4	11.8	12.4	---	---	---	---	---	---
23	---	---	---	15.2	12.1	13.4	---	---	---	---	---	---
24	---	---	---	19.3	12.0	15.0	---	---	---	---	---	---
25	---	---	---	17.2	14.4	15.4	---	---	---	---	---	---
26	---	---	---	17.0	14.0	14.8	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	4.7	1.6	2.6	5.0	3.0	3.8	---	---	---	---	---	---
2	4.8	1.3	2.4	4.8	3.3	4.0	---	---	---	---	---	---
3	3.0	1.4	1.7	4.2	3.3	3.6	---	---	---	---	---	---
4	4.1	1.2	2.4	4.2	3.3	3.7	---	---	---	---	---	---
5	6.1	1.1	3.2	4.3	3.4	3.8	---	---	---	---	---	---
6	4.5	2.1	3.4	5.2	3.4	4.0	---	---	---	---	---	---
7	3.1	1.8	2.2	5.6	3.3	4.2	---	---	---	---	---	---
8	4.2	1.8	3.4	---	---	---	---	---	---	---	---	---
9	3.2	1.8	2.2	---	---	---	---	---	---	---	---	---
10	2.7	1.4	2.2	---	---	---	---	---	---	---	---	---
11	2.2	1.1	1.5	---	---	---	---	---	---	---	---	---
12	1.9	1.4	1.6	---	---	---	---	---	---	---	---	---
13	2.3	1.4	1.8	---	---	---	---	---	---	---	---	---
14	1.9	1.3	1.5	---	---	---	---	---	---	---	---	---
15	---	---	---	---	---	---	---	---	---	---	---	---
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19	4.7	2.5	3.2	---	---	---	---	---	---	---	---	---
20	4.0	2.3	3.3	---	---	---	---	---	---	---	---	---
21	4.6	3.1	3.8	---	---	---	---	---	---	---	---	---
22	3.8	2.8	3.3	---	---	---	---	---	---	---	---	---
23	4.1	2.9	3.3	---	---	---	---	---	---	---	---	---
24	4.4	2.9	3.5	---	---	---	---	---	---	---	---	---
25	4.9	3.7	4.2	---	---	---	---	---	---	---	---	---
26	5.3	4.4	4.6	---	---	---	---	---	---	---	---	---
27	5.7	4.6	5.1	---	---	---	---	---	---	---	---	---
28	5.8	4.8	5.3	---	---	---	---	---	---	---	---	---
29	6.0	4.5	4.9	---	---	---	---	---	---	---	---	---
30	5.2	4.0	4.7	---	---	---	---	---	---	---	---	---
31	4.5	3.5	4.0	---	---	---	---	---	---	---	---	---
Month	---	---	---	---	---	---	---	---	---	---	---	---

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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21	---	---	---	8.3	7.6	8.1	---	---	---	---	---	---
22	---	---	---	8.0	6.8	7.4	---	---	---	---	---	---
23	---	---	---	7.8	6.4	7.1	---	---	---	---	---	---
24	---	---	---	8.2	6.0	7.1	---	---	---	---	---	---
25	---	---	---	7.9	6.8	7.5	---	---	---	---	---	---
26	---	---	---	8.5	7.1	7.6	---	---	---	---	---	---
27	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, MILLIGRAMS PER LITER
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

0208113400 CASHIE RIVER AT SAN SOUCI FERRY, NC—Continued

DISSOLVED OXYGEN, WATER, UNFILTERED, PERCENT OF SATURATION
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	57	19	31	54	30	39	---	---	---	---	---	---
2	59	15	29	50	34	41	---	---	---	---	---	---
3	36	16	20	42	33	36	---	---	---	---	---	---
4	49	14	28	42	32	37	---	---	---	---	---	---
5	73	13	37	42	33	37	---	---	---	---	---	---
6	53	24	40	51	33	39	---	---	---	---	---	---
7	36	21	25	55	32	41	---	---	---	---	---	---
8	48	21	39	---	---	---	---	---	---	---	---	---
9	37	20	26	---	---	---	---	---	---	---	---	---
10	31	16	25	---	---	---	---	---	---	---	---	---
11	25	12	18	---	---	---	---	---	---	---	---	---
12	22	16	18	---	---	---	---	---	---	---	---	---
13	26	16	20	---	---	---	---	---	---	---	---	---
14	21	14	17	---	---	---	---	---	---	---	---	---
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19	53	27	36	---	---	---	---	---	---	---	---	---
20	45	25	37	---	---	---	---	---	---	---	---	---
21	52	34	41	---	---	---	---	---	---	---	---	---
22	42	30	36	---	---	---	---	---	---	---	---	---
23	44	31	35	---	---	---	---	---	---	---	---	---
24	46	31	37	---	---	---	---	---	---	---	---	---
25	50	38	43	---	---	---	---	---	---	---	---	---
26	55	44	47	---	---	---	---	---	---	---	---	---
27	58	47	52	---	---	---	---	---	---	---	---	---
28	59	49	54	---	---	---	---	---	---	---	---	---
29	61	46	50	---	---	---	---	---	---	---	---	---
30	56	41	49	---	---	---	---	---	---	---	---	---
31	47	36	41	---	---	---	---	---	---	---	---	---
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WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	---	---	---	---	---	---	---	---	---	---	---	---
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21	---	---	---	78	71	76	---	---	---	---	---	---
22	---	---	---	77	63	69	---	---	---	---	---	---
23	---	---	---	78	60	68	---	---	---	---	---	---
24	---	---	---	87	56	71	---	---	---	---	---	---
25	---	---	---	80	67	76	---	---	---	---	---	---
26	---	---	---	88	69	76	---	---	---	---	---	---
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Month	---	---	---	---	---	---	---	---	---	---	---	---

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WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	---	---	---	---	---	---	---	---	---	---	---	---
2	---	---	---	---	---	---	---	---	---	---	---	---
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