



Water-Data Report 2008

## 12438900 NINEMILE CREEK NEAR OROVILLE, WA

Upper Columbia Basin  
Okanogan Subbasin

LOCATION.--Lat 48°58'12", long 119°24'16" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.14, T.40 N., R.27 E., Okanogan County, WA, Hydrologic Unit 17020006, on left bank, .6 miles upstream from Eastlake Road, 3.5 miles N-NE from Oroville town center, and 1.1 miles upstream from mouth.

DRAINAGE AREA.--12.8 mi<sup>2</sup>.

### SURFACE-WATER RECORDS

PERIOD OF RECORD.--July 2006 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 1,070 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. No known regulation. May be small diversions above station for irrigation. U.S. Geological Survey satellite telemeter at station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--2 years (water years 2007-2008), 0.84 ft<sup>3</sup>/s, 605 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 15 ft<sup>3</sup>/s, Apr. 14, 2008, gage height, 2.23 ft; minimum discharge, .25 ft<sup>3</sup>/s, part of each day, Oct. 12-15, November 6, 2006, and June 14-22, 2007.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 15 ft<sup>3</sup>/s, Apr. 14, gage height, 2.23 ft; minimum discharge, 0.27 ft<sup>3</sup>/s, Oct. 2.

REVISIONS.--Revised figures of discharge for water year 2007, superseding those published in the report for 2007 are given below.

EXTREMES FOR WATER YEAR 2007.--Maximum discharge, 14 ft<sup>3</sup>/s, Mar. 12, gage height, 2.21 ft; minimum discharge, 0.25 ft<sup>3</sup>/s, part of each day, Oct. 12-15, Nov. 6, and June 14-22.

### DISCHARGE, CUBIC FEET PER SECOND DAILY MEAN VALUES MARCH 2007

Day	Mar
11	3.6
12	11
13	8.4
14	7.1
15	5.2
16	4.8
17	4.5
18	5.5
19	5.7
20	5.4
<b>Total</b>	122
<b>Mean</b>	3.94
<b>Max</b>	11
<b>Min</b>	1.1
<b>Ac-ft</b>	242

## 12438900 NINEMILE CREEK NEAR OROVILLE, WA—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.34	0.71	0.59	e0.48	0.71	1.7	1.5	0.75	0.42	0.36	0.33	0.30
2	0.36	0.64	0.60	0.51	0.66	1.4	1.7	0.64	0.41	0.36	0.33	0.30
3	0.40	0.74	0.76	0.51	0.70	1.4	1.9	0.60	0.42	0.36	0.32	0.30
4	0.37	0.89	0.62	0.58	0.65	1.2	2.2	0.57	0.43	0.36	0.31	0.29
5	0.36	0.77	0.60	0.55	0.64	1.3	2.2	0.59	0.43	0.35	0.31	0.29
6	0.35	0.48	0.57	0.53	0.54	1.3	3.0	0.58	0.42	0.35	0.31	0.29
7	0.36	0.42	0.56	0.52	0.51	1.4	3.3	0.57	0.41	0.35	0.32	0.30
8	0.38	0.42	0.55	0.50	0.54	1.6	3.3	0.56	0.41	0.35	0.32	0.29
9	0.38	0.49	0.54	0.50	0.55	2.5	2.8	0.55	0.41	0.35	0.33	0.29
10	0.36	0.54	0.56	0.53	0.57	2.7	2.8	0.57	0.50	0.35	0.32	0.29
11	0.36	0.54	0.56	0.54	0.60	2.9	3.4	0.57	0.43	0.38	0.31	0.29
12	0.34	0.63	0.57	0.59	0.57	2.8	4.4	0.56	0.42	0.39	0.31	0.30
13	0.34	0.61	0.57	0.59	0.60	2.4	7.6	0.58	0.42	0.39	0.31	0.30
14	0.39	0.60	0.60	0.61	0.60	2.2	9.4	0.58	0.42	0.38	0.31	0.30
15	0.43	0.66	0.59	0.62	0.60	2.1	4.8	0.55	0.42	0.38	0.31	0.30
16	0.48	0.66	0.60	e0.60	0.60	2.5	3.4	0.53	0.42	0.36	0.31	0.30
17	0.51	0.61	0.59	0.67	0.61	2.4	3.2	0.51	0.41	0.36	0.31	0.30
18	0.45	0.54	0.58	0.68	0.61	2.7	3.4	0.49	0.41	0.36	0.31	0.30
19	0.47	0.47	0.57	0.66	0.62	2.5	2.8	0.49	0.41	0.36	0.36	0.30
20	0.41	0.48	0.58	0.66	0.61	2.4	2.6	0.61	0.41	0.36	0.30	0.30
21	0.48	0.48	0.55	e0.62	0.60	2.2	2.2	0.53	0.41	0.36	0.30	0.31
22	0.43	0.48	0.54	e0.60	0.61	2.0	1.9	0.49	0.41	0.36	0.29	0.31
23	0.47	0.49	0.55	e0.58	0.78	2.1	1.9	0.48	0.41	0.36	0.29	0.31
24	0.46	0.50	0.57	e0.56	0.69	1.9	2.1	0.46	0.41	0.35	0.29	0.31
25	0.44	0.47	0.58	e0.56	1.5	2.0	1.9	0.46	0.41	0.35	0.30	0.31
26	0.45	0.46	0.55	e0.58	1.1	2.2	1.6	0.46	0.40	0.35	0.29	0.31
27	0.52	0.44	0.56	0.65	1.4	1.9	1.6	0.43	0.40	0.35	0.30	0.31
28	0.55	0.43	0.56	0.64	1.3	1.7	1.5	0.42	0.40	0.35	0.30	0.31
29	0.61	0.45	0.56	0.64	1.5	1.8	1.5	0.40	0.38	0.34	0.29	0.32
30	0.63	0.60	0.54	0.65	---	1.8	1.3	0.39	0.37	0.33	0.29	0.32
31	0.72	---	e0.50	0.65	---	1.7	---	0.38	---	0.34	0.30	---
<b>Total</b>	13.60	16.70	17.82	18.16	21.57	62.7	87.2	16.35	12.43	11.10	9.58	9.05
<b>Mean</b>	0.44	0.56	0.57	0.59	0.74	2.02	2.91	0.53	0.41	0.36	0.31	0.30
<b>Max</b>	0.72	0.89	0.76	0.68	1.5	2.9	9.4	0.75	0.50	0.39	0.36	0.32
<b>Min</b>	0.34	0.42	0.50	0.48	0.51	1.2	1.3	0.38	0.37	0.33	0.29	0.29
<b>Ac-ft</b>	27	33	35	36	43	124	173	32	25	22	19	18

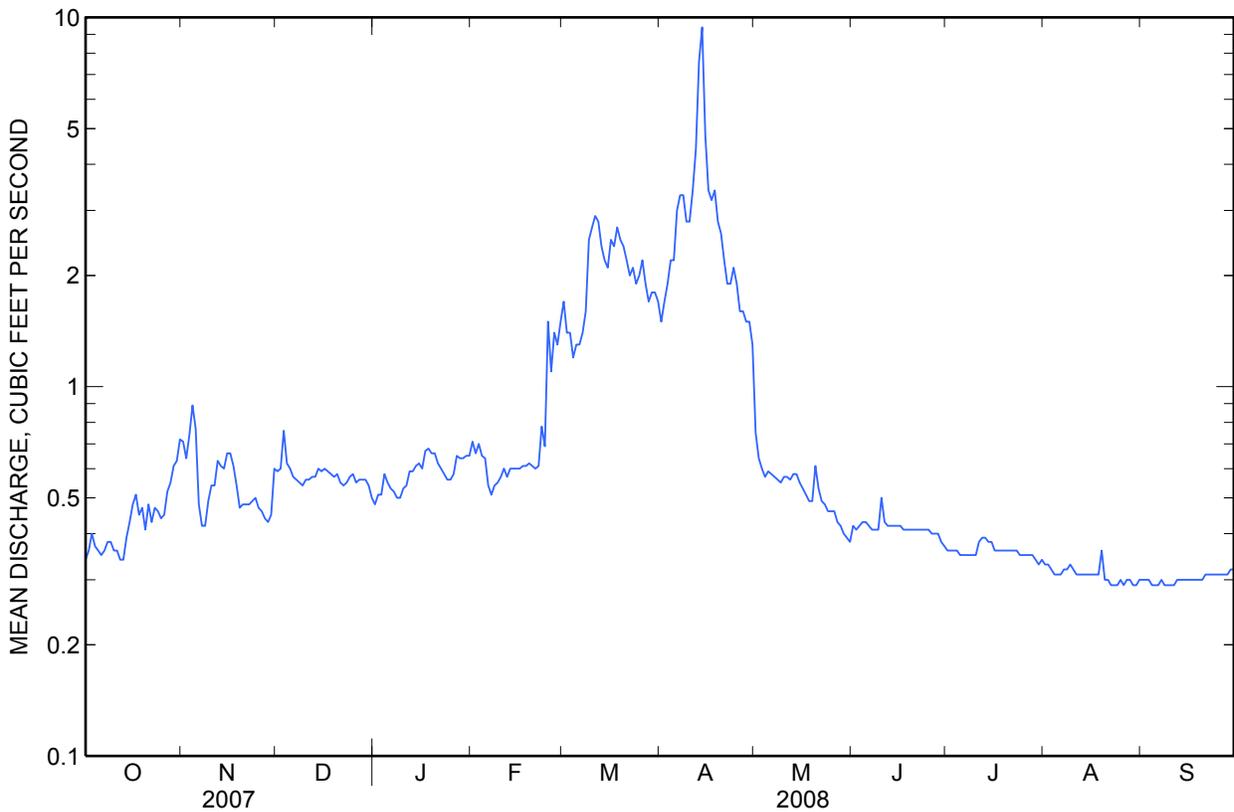
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2006 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	0.37	0.52	0.51	0.73	0.98	2.98	2.03	0.57	0.36	0.35	0.31	0.31
<b>Max</b>	0.44	0.56	0.57	0.88	1.23	3.94	2.91	0.62	0.41	0.36	0.33	0.32
<b>(WY)</b>	(2008)	(2008)	(2008)	(2007)	(2007)	(2007)	(2008)	(2007)	(2008)	(2008)	(2007)	(2006)
<b>Min</b>	0.30	0.48	0.44	0.59	0.74	2.02	1.15	0.53	0.30	0.35	0.30	0.30
<b>(WY)</b>	(2007)	(2007)	(2007)	(2008)	(2008)	(2008)	(2007)	(2008)	(2007)	(2007)	(2006)	(2008)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2006 - 2008	
<b>Annual total</b>	324.87		296.26			
<b>Annual mean</b>	0.89		0.81		0.84	
<b>Highest annual mean</b>					0.86	2007
<b>Lowest annual mean</b>					0.81	2008
<b>Highest daily mean</b>	11	Mar 12	9.4	Apr 14	11	Mar 12, 2007
<b>Lowest daily mean</b>	0.26	Jun 15	0.29	Aug 22	0.26	Jun 15, 2007
<b>Annual seven-day minimum</b>	0.26	Jun 15	0.29	Sep 4	0.26	Jun 15, 2007
<b>Annual runoff (ac-ft)</b>	644		588		605	
<b>10 percent exceeds</b>	1.6		1.9		1.9	
<b>50 percent exceeds</b>	0.51		0.51		0.47	
<b>90 percent exceeds</b>	0.30		0.31		0.30	



**12438900 NINEMILE CREEK NEAR OROVILLE, WA—Continued****WATER-QUALITY RECORDS**

## PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: February 2007 to current year.

INSTRUMENTATION.--Water temperature recorder since February, 2007.

REMARKS.--Records good except Oct. 1-23 and Jan. 1-8 which are fair.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 18.4°C, July 23, 2007; Aug. 18, 2008; minimum, 0.0°C, Jan. 16, 21-23, 2008.

## EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 18.4°C, Aug. 18; minimum, 0.0°C, Jan. 16, 21-23.

**TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	12.2	10.0	10.9	6.6	4.6	5.4	2.9	1.8	2.4	2.3	0.2	1.2
2	11.9	10.4	11.1	6.3	3.3	4.8	4.1	1.7	2.5	3.6	1.5	2.7
3	10.9	9.1	10.1	7.8	6.0	6.7	6.9	4.1	5.5	4.4	3.5	3.9
4	10.4	8.2	9.3	7.6	5.9	7.0	7.7	6.2	7.0	5.1	4.2	4.8
5	10.1	7.6	8.8	6.6	4.5	5.4	6.2	4.5	5.2	5.7	4.6	5.2
6	10.6	7.4	8.9	7.2	5.2	6.2	5.3	4.0	4.6	4.6	2.6	3.3
7	12.2	10.3	11.0	7.8	6.6	7.1	4.5	3.0	3.8	3.6	3.1	3.3
8	11.1	8.2	9.7	8.1	6.6	7.5	3.0	1.2	2.1	4.2	3.0	3.6
9	11.2	8.6	9.8	9.0	8.0	8.4	2.9	1.0	2.0	4.6	3.4	4.0
10	11.3	9.6	10.4	8.9	6.7	8.2	3.1	1.7	2.4	4.8	1.9	3.8
11	11.0	8.8	9.9	7.4	5.7	6.5	3.1	1.3	2.4	5.0	3.3	4.3
12	11.3	8.9	10.3	8.0	6.4	7.3	3.8	3.0	3.4	4.6	2.8	3.8
13	10.1	7.0	8.6	7.0	5.0	5.8	3.6	3.1	3.4	5.6	4.5	4.9
14	10.7	7.0	8.8	5.7	3.5	4.8	4.0	2.9	3.5	5.0	3.7	4.6
15	10.9	7.8	9.5	7.1	5.7	6.5	4.7	3.5	4.1	3.7	0.8	2.2
16	11.0	9.6	10.4	8.1	7.1	7.6	4.9	3.5	4.1	1.8	0.0	0.8
17	9.9	8.1	8.9	7.7	6.8	7.3	4.9	3.6	4.4	1.7	0.2	0.8
18	8.7	6.6	7.7	7.0	5.0	6.0	5.0	4.3	4.6	3.1	1.6	2.3
19	10.1	7.8	8.9	5.0	3.4	4.1	5.9	4.6	5.3	3.9	1.6	3.0
20	9.0	6.7	7.8	4.2	2.8	3.3	5.6	4.4	5.3	4.7	0.9	3.3
21	8.1	6.2	7.3	3.2	1.7	2.5	4.4	2.5	3.1	1.2	0.0	0.4
22	10.3	8.1	9.2	3.0	1.6	2.2	4.3	2.6	3.5	0.2	0.0	0.0
23	10.4	7.9	9.2	3.1	1.6	2.5	4.5	3.2	4.2	0.2	0.0	0.2
24	10.7	8.5	9.6	3.5	3.1	3.3	4.4	2.6	3.8	0.2	0.2	0.2
25	9.0	6.6	7.8	3.5	3.0	3.3	3.0	1.2	2.1	0.2	0.2	0.2
26	7.1	4.8	5.9	3.4	3.2	3.3	3.9	1.4	3.1	1.6	0.1	0.9
27	7.4	4.3	5.9	3.7	2.3	3.1	2.6	1.3	2.0	2.8	1.6	2.2
28	8.4	6.6	7.5	3.2	1.0	2.2	3.8	2.3	3.2	2.1	0.4	1.0
29	8.2	6.6	7.3	4.7	2.8	3.7	4.1	3.1	3.6	1.6	0.3	0.9
30	6.8	5.0	5.9	4.2	2.6	3.5	3.3	1.3	2.6	2.2	1.6	1.8
31	6.8	4.9	5.7	---	---	---	1.3	0.3	0.5	3.9	1.8	2.9
Month	12.2	4.3	8.8	9.0	1.0	5.2	7.7	0.3	3.5	5.7	0.0	2.5

12438900 NINEMILE CREEK NEAR OROVILLE, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
<b>1</b>	3.4	1.9	2.7	6.3	3.1	4.5	7.5	1.7	4.3	11.6	5.1	8.1
<b>2</b>	3.0	1.3	2.0	5.8	2.3	3.8	8.6	2.4	5.1	12.3	6.1	9.2
<b>3</b>	3.8	2.4	3.0	5.8	3.8	4.6	8.2	2.3	5.2	13.3	8.2	10.6
<b>4</b>	3.0	1.1	2.1	6.2	3.5	4.6	7.3	4.2	5.7	14.3	8.1	11.1
<b>5</b>	3.6	2.2	2.9	6.3	2.2	3.8	9.8	4.2	6.6	13.8	9.6	11.6
<b>6</b>	3.9	1.8	3.1	6.4	2.0	4.0	8.5	4.5	6.3	14.0	8.3	11.1
<b>7</b>	5.3	3.7	4.3	7.1	3.0	5.0	8.9	3.4	5.9	13.3	9.0	11.1
<b>8</b>	5.7	4.0	4.7	8.2	4.3	6.0	7.5	3.6	5.4	11.2	7.4	9.4
<b>9</b>	5.2	3.8	4.4	6.8	2.7	4.8	9.8	3.5	6.2	12.6	7.4	9.9
<b>10</b>	6.2	3.8	4.7	7.1	4.4	5.6	10.4	4.3	6.8	11.4	9.1	10.3
<b>11</b>	5.1	3.5	4.3	8.1	3.6	5.5	10.4	3.4	6.5	10.6	9.3	10.0
<b>12</b>	6.2	4.2	5.0	6.2	1.5	3.5	12.6	4.2	8.0	13.3	7.9	10.5
<b>13</b>	5.6	3.6	4.6	6.6	2.5	4.4	11.8	5.4	8.5	11.1	---	---
<b>14</b>	5.6	2.9	4.1	7.2	4.3	5.4	8.8	5.1	7.4	13.1	---	---
<b>15</b>	5.1	3.4	4.2	7.8	3.9	5.4	8.7	3.2	5.5	15.3	9.6	12.4
<b>16</b>	4.9	2.5	3.6	7.3	2.5	4.7	10.9	2.5	6.2	16.2	10.5	13.3
<b>17</b>	4.8	2.1	3.3	8.4	3.6	5.6	11.9	4.6	7.7	16.6	11.0	13.8
<b>18</b>	4.1	1.5	2.7	7.2	2.0	4.3	8.8	4.4	6.7	17.1	12.7	14.7
<b>19</b>	4.0	1.2	2.4	7.4	1.8	4.3	7.9	3.6	5.3	14.8	11.9	13.5
<b>20</b>	4.4	1.4	2.7	7.7	3.0	5.0	8.6	2.8	5.1	14.0	11.1	12.8
<b>21</b>	4.9	1.6	3.1	7.7	3.7	5.3	8.7	2.5	5.4	13.1	8.9	11.0
<b>22</b>	5.5	2.3	3.9	7.3	1.6	4.3	9.4	2.6	5.8	13.9	9.7	11.9
<b>23</b>	6.3	3.2	4.0	7.4	3.7	5.3	8.5	5.0	6.5	13.3	11.9	12.6
<b>24</b>	6.2	3.3	4.6	7.2	2.0	4.4	8.7	4.8	6.7	13.9	10.4	12.4
<b>25</b>	6.8	2.2	4.5	7.2	1.4	4.0	11.1	4.1	7.3	14.8	---	---
<b>26</b>	5.6	2.5	4.1	5.8	3.5	4.5	11.9	4.0	7.8	14.8	11.9	13.1
<b>27</b>	6.2	3.5	4.4	6.9	2.5	4.4	11.8	6.7	9.2	15.3	11.0	13.2
<b>28</b>	6.8	3.6	4.8	5.2	2.0	3.4	13.8	6.9	10.3	15.9	11.1	13.6
<b>29</b>	7.1	3.5	5.1	7.1	2.5	4.4	12.1	7.6	9.6	16.1	12.6	14.2
<b>30</b>	---	---	---	7.4	2.7	4.7	10.0	5.1	7.6	15.6	10.7	13.2
<b>31</b>	---	---	---	6.5	2.4	4.3	---	---	---	15.7	10.7	13.3
<b>Month</b>	7.1	1.1	3.8	8.4	1.4	4.6	13.8	1.7	6.7	17.1	---	---

## 12438900 NINEMILE CREEK NEAR OROVILLE, WA—Continued

TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	14.4	12.8	13.5	17.7	14.8	16.1	15.4	13.0	14.3	13.7	9.9	11.8
2	14.4	11.8	12.9	18.1	13.6	15.8	15.6	11.5	13.7	13.2	9.7	11.6
3	13.0	10.8	12.1	17.9	14.5	15.9	16.5	13.2	14.8	13.6	10.1	12.0
4	14.3	11.2	12.5	16.7	14.1	15.2	16.5	12.0	14.3	14.2	10.8	12.5
5	12.9	11.2	12.2	16.7	13.4	15.0	17.0	12.4	14.7	14.0	11.5	12.7
6	13.1	10.1	11.5	16.7	12.9	14.8	17.0	12.5	15.0	14.8	12.4	13.6
7	13.4	10.7	11.9	16.4	12.3	14.4	18.0	13.6	15.9	14.3	10.9	12.6
8	13.7	9.6	11.7	17.0	12.7	14.9	16.4	14.0	15.3	---	10.1	---
9	13.4	10.0	11.7	17.4	13.4	15.4	16.4	14.3	15.1	13.5	10.2	11.9
10	11.8	9.6	10.7	16.0	12.8	14.2	15.4	12.8	14.2	13.6	9.7	11.7
11	13.5	9.7	11.6	15.6	10.6	13.1	15.6	12.1	13.9	14.0	9.7	11.8
12	15.0	10.2	12.6	16.6	11.4	14.0	15.9	12.1	14.0	14.1	10.5	12.3
13	15.4	11.6	13.3	17.1	12.2	14.7	17.1	13.2	15.1	13.3	10.0	11.8
14	14.6	10.1	12.4	16.4	12.2	14.4	17.4	13.5	15.4	13.2	8.8	11.0
15	15.3	10.4	12.9	16.8	12.3	14.6	18.0	13.6	15.7	13.2	8.9	11.1
16	15.6	10.9	13.3	16.9	12.2	14.6	18.2	14.1	16.2	13.4	9.1	11.4
17	15.0	11.1	13.1	17.2	12.6	14.9	18.1	14.4	16.3	13.7	10.1	11.9
18	14.1	10.6	12.4	17.0	13.0	15.2	18.4	---	---	13.7	9.7	11.7
19	14.0	10.0	12.0	17.0	12.7	14.9	16.6	14.2	15.1	14.0	10.3	12.2
20	15.5	11.1	13.3	17.5	12.3	14.9	15.9	14.0	14.7	14.1	11.4	12.8
21	---	11.7	---	17.7	13.0	15.4	14.8	13.1	13.9	13.5	11.7	12.9
22	15.2	12.6	13.8	---	---	---	14.9	11.1	13.0	11.8	9.5	10.8
23	14.5	11.0	12.9	15.8	14.0	14.9	15.6	11.7	13.6	11.0	7.4	9.3
24	15.3	11.1	13.2	16.5	12.1	14.4	15.5	12.7	14.1	12.1	10.0	10.9
25	14.6	---	---	16.8	---	---	14.7	12.9	14.0	12.3	9.7	10.9
26	14.7	10.9	13.0	17.2	---	---	14.0	10.6	12.5	12.1	8.5	10.3
27	15.8	10.9	13.4	16.7	---	---	14.8	12.2	13.4	12.0	9.5	10.8
28	17.2	12.0	14.6	---	12.3	---	14.7	12.0	13.3	11.6	8.0	9.8
29	18.0	12.9	15.4	15.5	12.5	14.2	16.7	13.3	14.9	11.6	7.6	9.6
30	18.1	13.9	15.9	15.6	12.6	14.1	15.2	12.4	13.6	11.9	8.0	9.9
31	---	---	---	---	11.8	---	13.4	10.7	12.1	---	---	---
Month	---	---	---	---	---	---	18.4	---	---	---	7.4	---