

**1436950 APPLGATE RIVER NEAR WILDERVILLE, OR**

Southern Oregon Coastal Basin  
Applegate Subbasin

LOCATION.--Lat 42°21'15", long 123°24'20" referenced to North American Datum of 1927, in SE ¼ NE ¼ sec.16, T.37 S., R.6 E., Josephine County, OR, Hydrologic Unit 17100309, on left bank, 0.3 mile downstream from Jackson Creek, 3.8 mi northwest of Murphy and at mile 7.6.

DRAINAGE AREA.--698 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1938 to September 1955, September 1978 to current year.

REVISED RECORDS.--WSP 1318: 1943. WSP 1738: 1951, 1953, drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 947.18 ft above NGVD of 1929 (U.S. Army Corps of Engineers bench mark). Prior to Sept. 1, 1978, nonrecording gage at site 1,100 ft upstream at datum 2.36 ft higher.

REMARKS.--Records good except for estimated daily discharges, which are fair. Flow regulated since December 1980 by Applegate Lake (station 14361900). Many diversions for irrigation upstream from station. Wilderville ditch diverts up to 16 ft<sup>3</sup>/s, 0.3 mi upstream and at the mouth of Jackson Creek.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--19 years (water years 1939-55, 1979-80), 717 ft<sup>3</sup>/s, 519,500 acre-ft/yr. 27 years (water years 1981-2007), 720 ft<sup>3</sup>/s, 521,900 acre-ft/yr, regulated period.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 47,500 ft<sup>3</sup>/s Jan. 18, 1953, gage height, 18.3 ft, from floodmark, site and datum then in use, from rating curve extended above 12,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow; minimum discharge, 0.78 ft<sup>3</sup>/s Aug. 22-24, 1979. Minimum since first filling of Applegate Lake, 7.0 ft<sup>3</sup>/s July 26-28, Aug. 11, 12, 2001.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Dec. 22, 1955, reached a stage of 20.3 ft, from floodmark, former site and datum, discharge, 66,500 ft<sup>3</sup>/s, from rating curve extended above 12,000 ft<sup>3</sup>/s on basis of slope-area measurement of peak flow. Flood of February 1927 reached a stage of 22 ft, at former site, from local resident. Floods of Dec. 22, 1964 and Jan. 15, 1974, are known to have exceeded the December 1955 flood. No flow was observed at present site during the late summer of 1977.

EXTREMES FOR CURRENT YEAR.--Maximum daily discharge, 6,000 ft<sup>3</sup>/s Dec. 14; minimum discharge, 196 ft<sup>3</sup>/s July 7.

## 1436950 APPLGATE RIVER NEAR WILDERVILLE, OR—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	227	286	378	e1,800	e380	1,100	553	425	250	232	206	227
2	232	295	357	e1,800	e360	1,110	529	453	245	228	207	231
3	233	317	342	e3,100	e350	1,170	512	459	245	221	206	232
4	238	318	333	e4,300	e350	1,340	499	450	245	222	205	237
5	235	303	325	e4,100	e350	1,540	523	434	270	226	211	240
6	234	299	320	e3,500	e350	1,570	494	420	301	223	227	236
7	241	310	319	e3,100	354	1,490	497	414	302	218	238	233
8	241	340	317	e2,900	403	1,480	495	553	292	222	233	233
9	241	346	e320	e2,700	434	1,370	498	648	269	219	238	238
10	237	323	e400	e2,600	456	1,330	479	671	274	215	237	242
11	237	368	e380	e2,400	981	1,230	474	644	269	215	232	247
12	240	317	e1,500	e2,000	854	1,400	480	582	261	227	233	229
13	244	360	e3,000	e1,800	658	1,560	464	566	263	224	235	228
14	251	429	e6,000	e1,600	558	1,560	478	527	258	221	228	229
15	259	349	e5,000	e1,500	531	1,460	499	498	259	222	225	231
16	268	355	e4,000	e1,400	516	1,290	481	475	263	218	229	236
17	273	466	e3,000	e1,300	493	1,150	486	469	271	218	222	240
18	272	477	e2,000	e1,200	479	1,200	484	465	276	238	228	240
19	272	482	e1,500	e1,100	458	1,260	465	432	264	247	249	245
20	273	581	e1,200	e1,000	445	1,250	457	419	241	240	256	266
21	275	709	e900	e1,000	531	1,150	464	420	235	237	247	266
22	272	995	e750	e950	769	1,040	505	408	228	229	237	260
23	273	1,190	e680	e900	778	937	499	385	231	222	231	254
24	271	970	e690	e850	1,010	851	487	356	231	217	228	252
25	270	804	e900	e800	2,570	855	479	334	231	214	227	246
26	274	740	e3,000	e740	2,070	872	464	324	227	217	229	247
27	278	769	e5,000	e650	1,590	889	450	317	227	219	232	246
28	292	603	e4,400	e560	1,210	804	443	326	233	215	227	253
29	280	479	e3,200	e470	---	715	437	308	237	215	226	271
30	276	413	e2,500	e430	---	646	427	273	233	224	236	286
31	280	---	e1,900	e400	---	586	---	258	---	221	234	---
<b>Total</b>	7,989	14,993	54,911	52,950	20,288	36,205	14,502	13,713	7,631	6,926	7,099	7,321
<b>Mean</b>	258	500	1,771	1,708	725	1,168	483	442	254	223	229	244
<b>Max</b>	292	1,190	6,000	4,300	2,570	1,570	553	671	302	247	256	286
<b>Min</b>	227	286	317	400	350	586	427	258	227	214	205	227
<b>Ac-ft</b>	15,850	29,740	108,900	105,000	40,240	71,810	28,760	27,200	15,140	13,740	14,080	14,520

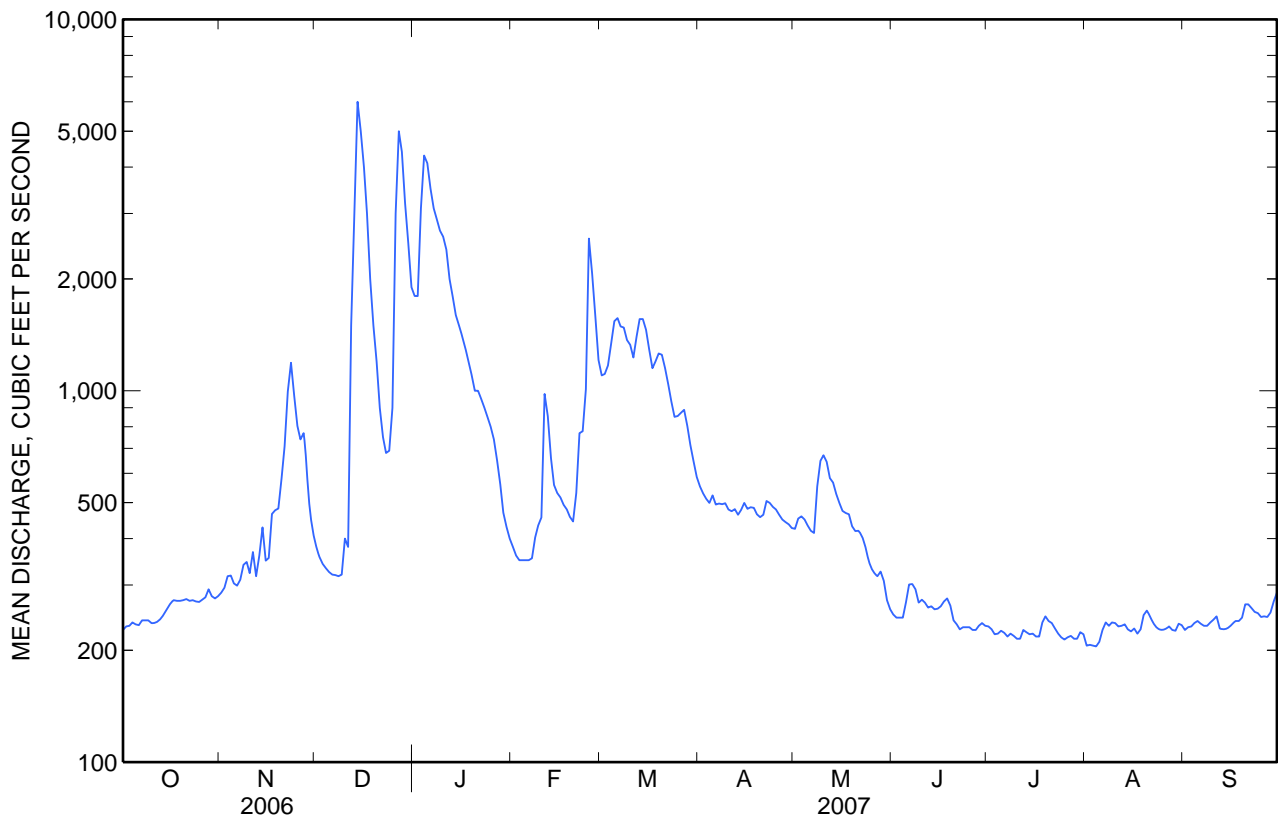
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2007, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	335	558	1,227	1,459	1,255	1,058	802	833	473	226	193	247
<b>Max</b>	569	2,099	4,769	6,633	4,241	2,715	2,177	1,916	1,333	439	393	482
<b>(WY)</b>	(1984)	(1985)	(1997)	(1997)	(1983)	(1983)	(1982)	(1983)	(1983)	(1998)	(1999)	(1983)
<b>Min</b>	80.4	156	196	187	190	209	173	147	32.9	17.2	17.9	34.5
<b>(WY)</b>	(1981)	(1981)	(1991)	(2001)	(2001)	(2001)	(1994)	(2001)	(2001)	(2001)	(2001)	(2001)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1981 - 2007	
<b>Annual total</b>	421,972		244,528			
<b>Annual mean</b>	1,156		670		720	
<b>Highest annual mean</b>					1,546	1983
<b>Lowest annual mean</b>					160	2001
<b>Highest daily mean</b>	11,200	Jan 1	6,000	Dec 14	36,500	Jan 1, 1997
<b>Lowest daily mean</b>	210	Sep 14	205	Aug 4	7.7	Jul 27, 2001
<b>Annual seven-day minimum</b>	216	Sep 13	211	Jul 30	9.9	Jul 5, 2001
<b>Annual runoff (ac-ft)</b>	837,000		485,000		521,900	
<b>10 percent exceeds</b>	2,910		1,490		1,570	
<b>50 percent exceeds</b>	709		350		350	
<b>90 percent exceeds</b>	246		227		164	



## 14369500 APPLGATE RIVER NEAR WILDERVILLE, OR—Continued

## WATER-QUALITY RECORDS

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: September 1978 to current year.

INSTRUMENTATION.--Temperature recorder.

REMARKS.--

WATER TEMPERATURE: Records fair.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 29.0°C June 22, 1992; minimum, 0.0°C Feb. 6, 7, 1989.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 25.2°C July 5, 10; minimum recorded, 3.2°C Feb. 1, 2, but may have been lower during period of missing record.

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	16.9	14.8	15.7	9.0	7.0	8.1	7.7	6.6	7.1	6.5	5.3	5.9
2	16.3	14.5	15.3	10.0	8.0	9.1	8.2	6.5	7.2	7.0	6.2	6.6
3	15.6	14.5	15.1	11.4	9.7	10.3	8.0	5.4	6.3	7.7	6.2	7.0
4	14.9	13.6	14.3	11.8	10.2	11.1	6.3	5.0	5.7	7.3	6.1	6.7
5	14.6	13.2	13.9	12.4	11.4	11.9	6.1	4.9	5.7	6.6	5.6	6.2
6	14.7	13.0	13.8	13.9	12.2	13.0	6.1	5.0	5.5	7.0	5.9	6.5
7	14.7	12.5	13.6	13.6	12.2	12.9	6.3	5.1	5.8	7.4	6.5	6.9
8	14.3	12.2	13.3	12.6	10.7	11.7	6.2	5.4	5.8	7.4	6.6	7.0
9	14.8	12.8	13.7	11.3	9.6	10.5	7.7	5.6	6.8	7.1	6.5	6.8
10	13.7	11.9	12.9	10.4	8.8	9.4	7.8	6.7	7.3	7.0	6.1	6.5
11	13.5	11.4	12.5	10.1	8.6	9.5	7.9	6.8	7.4	6.2	5.3	5.6
12	13.8	11.7	12.6	9.8	8.0	8.6	8.3	7.6	7.9	---	---	---
13	13.9	11.8	12.8	9.2	8.2	8.6	8.5	7.8	8.1	---	---	---
14	13.5	11.8	12.8	9.5	8.4	9.1	8.5	7.8	8.1	---	---	---
15	13.2	11.4	12.3	9.3	8.0	8.6	8.3	6.7	7.4	---	---	---
16	12.5	11.6	12.0	10.6	9.2	10.0	6.8	6.3	6.5	---	---	---
17	13.4	11.3	12.2	10.3	9.5	10	6.4	5.6	5.9	---	---	---
18	12.5	11.0	11.9	9.9	8.8	9.4	5.8	4.7	5.2	---	---	---
19	13.2	11.3	12.3	9.7	9.0	9.3	5.1	4.4	4.8	---	---	---
20	14.1	12.6	13.3	11.2	9.5	10.4	5.1	4.4	4.8	---	---	---
21	13.2	11.2	12.3	10.4	8.9	9.3	6.5	4.8	5.5	---	---	---
22	12.3	10.3	11.5	9.4	8.5	8.8	6.3	5.4	5.8	---	---	---
23	12.1	10.4	11.3	9.3	7.6	8.5	6.5	5.6	6.1	---	---	---
24	11.5	9.9	10.8	8.9	8.2	8.5	7.0	5.8	6.3	---	---	---
25	10.8	9.1	10.0	8.9	8.2	8.4	8.1	6.8	7.7	---	---	---
26	10.1	8.3	9.5	8.4	7.3	8.0	8.0	7.2	7.6	---	---	---
27	10.2	8.3	9.4	8.0	6.9	7.5	7.2	6.4	7.0	---	---	---
28	10.1	8.2	9.5	8.4	6.9	7.4	6.4	5.7	6.1	---	---	---
29	10.4	8.2	9.5	6.9	5.8	6.3	6.6	5.5	6.0	---	---	---
30	10.5	8.7	9.6	7.1	5.6	6.4	6.6	5.7	6.2	---	---	---
31	9.6	7.3	8.4	---	---	---	6.3	5.7	6.0	5.4	3.5	4.6
Month	16.9	7.3	12.2	13.9	5.6	9.4	8.5	4.4	6.4	---	---	---

## 14369500 APPLGATE RIVER NEAR WILDERVILLE, OR—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
	<b>February</b>			<b>March</b>			<b>April</b>			<b>May</b>		
<b>1</b>	5.2	3.2	4.4	7.1	5.3	6.1	10.8	9.3	9.9	15.3	12.2	13.3
<b>2</b>	5.0	3.2	4.3	7.0	5.9	6.4	10.9	7.3	9.1	13.7	10.9	12.2
<b>3</b>	5.8	4.0	5.0	8.6	6.1	7.2	11.3	8.4	9.8	13.0	10.6	11.6
<b>4</b>	---	---	---	8.6	6.3	7.4	13.1	9.5	11.3	12.9	9.9	11.5
<b>5</b>	---	---	---	9.0	7.0	7.8	13.7	9.9	11.8	13.7	10.2	12.1
<b>6</b>	---	---	---	8.3	6.4	7.4	14.1	10.6	12.4	15.6	10.9	13.3
<b>7</b>	7.4	6.3	6.9	7.8	6.9	7.4	14.5	11.7	13.1	17.6	13.1	15.5
<b>8</b>	7.1	6.3	6.7	8.2	5.7	7.0	13.4	10.4	12.0	17.8	14.3	16.3
<b>9</b>	7.7	6.0	6.8	8.0	6.6	7.3	12.6	10.3	11.6	16.8	13.8	15.4
<b>10</b>	7.7	6.3	7.1	8.4	6.3	7.5	12.5	9.3	11.1	16.2	13.2	14.8
<b>11</b>	8.2	5.9	7.5	9.9	7.1	8.4	12.2	9.8	10.9	15.5	13.2	14.3
<b>12</b>	7.7	5.9	7.0	9.9	7.8	8.8	12.2	8.6	10.4	15.0	12.6	13.9
<b>13</b>	8.2	6.8	7.5	9.6	7.5	8.5	11.9	8.1	10.2	16.0	12.7	14.4
<b>14</b>	7.6	6.3	6.7	9.2	6.5	8.0	11.6	9.5	10.1	16.8	12.7	14.8
<b>15</b>	8.6	6.6	7.5	8.8	5.7	7.4	11.6	8.3	9.9	17.7	14.1	16.0
<b>16</b>	9.4	7.7	8.5	9.9	6.7	8.4	11.4	8.8	10.2	17.8	14.2	16.2
<b>17</b>	9.2	7.3	8.4	10.4	7.3	8.8	10.8	9.1	9.8	17.8	14.0	16.1
<b>18</b>	8.9	7.6	8.2	10.2	7.6	9.0	10.6	8.0	9.4	17.6	14.2	16.1
<b>19</b>	8.0	6.2	7.0	9.4	7.2	8.3	10.7	7.9	9.2	17.1	14.8	16.0
<b>20</b>	7.7	6.7	7.3	9.0	7.3	8.2	11.8	8.3	10.2	16.2	13.5	14.4
<b>21</b>	7.5	5.5	6.4	9.0	6.1	7.5	11.6	9.6	10.0	16.4	12.5	14.5
<b>22</b>	5.5	4.4	4.8	9.3	6.2	7.7	11.9	8.6	10.1	17.0	13.1	15.3
<b>23</b>	7.0	4.5	5.6	10.3	7.2	8.7	13.8	10.1	11.9	18.0	13.4	16.0
<b>24</b>	6.7	5.8	6.3	10.9	8.4	9.6	14.9	11.3	13.2	19.4	15.0	17.4
<b>25</b>	6.2	5.3	5.7	10.2	8.9	9.4	14.7	12.0	13.3	19.8	16.2	18.3
<b>26</b>	5.8	4.7	5.3	8.9	7.4	7.9	14.2	10.6	12.6	20.7	16.7	19.0
<b>27</b>	5.4	4.7	5.1	7.6	6.4	7.0	15.4	11.3	13.5	20.0	17.0	18.4
<b>28</b>	6.6	4.7	5.6	9.2	5.7	7.3	16.3	12.6	14.7	18.8	14.7	17.1
<b>29</b>	---	---	---	10.0	6.4	8.1	16.4	13.3	15.2	20.2	15.4	18.0
<b>30</b>	---	---	---	11.1	7.7	9.3	16.0	12.6	14.5	21.6	17.5	19.7
<b>31</b>	---	---	---	11.6	9.3	10.4	---	---	---	22.4	18.6	20.6
<b>Month</b>	---	---	---	11.6	5.3	8.0	16.4	7.3	11.4	22.4	9.9	15.6

## 14369500 APPLGATE RIVER NEAR WILDERVILLE, OR—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		
<b>1</b>	22.7	19.0	20.9	21.9	18.9	20.4	23.8	20.2	21.8	21.9	19.6	20.7
<b>2</b>	23.0	19.5	21.4	22.1	18.2	20.2	24.0	20.9	22.3	21.4	18.7	20.1
<b>3</b>	22.7	19.9	21.3	23.3	19.4	21.3	23.8	20.4	21.9	21.3	18.8	20.0
<b>4</b>	21.6	19.3	20.3	24.6	20.7	22.5	23.4	20.7	21.8	20.2	17.8	19.3
<b>5</b>	19.8	16.6	18.0	25.2	21.8	23.3	22.8	20.0	21.2	20.4	17.3	18.7
<b>6</b>	17.6	15.2	16.5	24.8	21.9	23.2	22.1	19.4	21.1	20.7	17.9	19.2
<b>7</b>	19.2	15.0	17.1	24.3	21.4	22.7	22.4	19.3	20.8	20.4	18.1	19.2
<b>8</b>	20.0	15.7	17.9	24.1	20.7	22.3	22.7	19.4	21.0	19.8	17.2	18.5
<b>9</b>	19.3	16.9	17.5	24.6	21.1	22.7	22.9	19.9	21.3	20.6	17.8	19.0
<b>10</b>	20.0	16.1	17.8	25.2	21.6	23.2	22.5	19.5	20.9	20.5	17.9	19.1
<b>11</b>	20.7	16.9	18.8	24.8	22.3	23.2	22.1	19.0	20.5	20.4	17.8	19.1
<b>12</b>	21.0	17.0	19.1	24.2	20.9	22.4	21.5	18.6	20.0	20.5	18.1	19.2
<b>13</b>	22.0	18.2	20.2	23.9	20.9	22.4	21.6	18.1	19.7	19.3	17.7	18.6
<b>14</b>	21.9	18.1	20.1	23.7	21.2	22.2	22.1	18.8	20.3	19.1	17.8	18.5
<b>15</b>	22.6	18.6	20.7	23.3	20.2	21.7	22.2	19.1	20.5	19.6	17.2	18.3
<b>16</b>	22.1	19.5	20.9	23.4	20.4	21.7	21.1	19.0	20.1	18.3	16.9	17.6
<b>17</b>	20.9	17.3	19.2	21.2	18.3	19.9	---	---	---	18.8	16.6	17.6
<b>18</b>	21.1	17.2	19.3	21.4	17.6	19.3	---	---	---	18.3	16.4	17.3
<b>19</b>	22.1	17.9	20.0	21.2	18.9	20.0	---	---	---	16.8	14.0	15.3
<b>20</b>	22.8	19.3	21.1	21.3	18.9	20.1	---	---	---	16.6	13.9	15.2
<b>21</b>	22.2	18.9	20.6	22.0	19.2	20.5	22.7	20.1	21.3	17.7	15.0	16.3
<b>22</b>	21.6	18.4	20.0	24.0	20.2	21.9	22.2	19.8	21.0	17.6	15.3	16.6
<b>23</b>	20.9	17.8	19.4	24.5	21.3	22.7	21.7	18.7	20.2	17.2	15.1	16.3
<b>24</b>	20.5	17.2	18.9	24.7	21.7	23.0	22.3	19.2	20.6	16.4	14.1	15.3
<b>25</b>	20.9	16.9	18.9	24.2	20.9	22.4	22.4	19.6	20.9	16.3	13.8	15.1
<b>26</b>	21.6	17.8	19.7	24.6	21.4	22.8	21.4	19.4	20.4	16.6	14.1	15.4
<b>27</b>	22.2	18.6	20.4	24.6	21.4	22.9	20.7	17.8	19.3	16.9	14.5	15.7
<b>28</b>	21.0	18.9	20.1	24.7	21.4	22.8	21.1	18.0	19.4	16.3	13.4	14.7
<b>29</b>	20.4	18.7	19.7	23.8	20.9	22.3	22.0	18.8	20.3	15.3	12.6	14.0
<b>30</b>	22.0	17.9	19.8	23.2	20.3	21.6	23.1	20.4	21.6	15.3	12.4	13.7
<b>31</b>	---	---	---	23.3	19.9	21.3	22.6	20.6	21.6	---	---	---
<b>Month</b>	23.0	15.0	19.5	25.2	17.6	21.9	---	---	---	21.9	12.4	17.5