

Water-Data Report 2010

**11507500 LINK RIVER AT KLAMATH FALLS, OR**

Klamath Basin  
Lost Subbasin

LOCATION.--Lat 42°13'25", long 121°47'35" referenced to North American Datum of 1927, in SW ¼ NW ¼ sec.32, T.38 S., R.9 E., Klamath County, OR, Hydrologic Unit 18010204, on right bank, 600 ft upstream from outlet of Keno Canal and 0.4 mi upstream from Main Street Bridge at Klamath Falls.

DRAINAGE AREA.--3,810 mi<sup>2</sup>, approximately, including 26.2 mi<sup>2</sup> in closed basin of Crater Lake.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1961 to current year (Link River only). Records for combined flows (river and Keno Canal) available for period May 1904 to September 1983 under station 11507501.

GAGE.--Water-stage recorder. Datum of gage is 4,083.71 ft above NGVD of 1929 or 4,085.50 ft above Bureau of Reclamation datum. Prior to Sept. 14, 1912, water-stage recorder or nonrecording gage at several sites within 0.5 mi of present site at various datums. Sept. 14, 1912 to Nov. 23, 1923, at site 600 ft downstream at datum 5.42 ft lower. Nov. 24, 1923 to Nov. 15, 1961, at site on left bank at present datum.

REMARKS.--No estimated daily discharges. Records fair above 1,200 ft<sup>3</sup>/s, and poor below. Flow regulated since 1919 by Upper Klamath Lake (station 11507001). Large diurnal fluctuation caused by powerplant upstream from station. Water diverted upstream from station by main or "A" Canal of Klamath project. Many other diversions upstream from lake. All records given herein do not include flow in Keno Canal which, since September 1908, has diverted from Upper Klamath Lake at Link River Dam for power generation and returns flow to Link River downstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--49 years (water years 1962-2010), 1,276 ft<sup>3</sup>/s, 924,200 acre-ft/yr, river only.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 9,400 ft<sup>3</sup>/s May 12, 1904, gage height at Main Street Bridge, 7.30 ft, datum then in use, from floodmarks; minimum daily discharge, 17 ft<sup>3</sup>/s Dec. 13, 1937.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 2,400 ft<sup>3</sup>/s Dec. 9, gage height, 2.76 ft; minimum discharge, 396 ft<sup>3</sup>/s Dec. 1.

## 11507500 LINK RIVER AT KLAMATH FALLS, OR—Continued

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	886	1,140	1,110	945	756	1,120	737	674	1,010	1,240	689	891
2	1,150	1,170	1,070	855	764	903	780	826	768	1,130	590	875
3	1,000	1,230	1,040	914	846	910	637	860	621	1,160	680	694
4	1,000	1,270	1,160	934	740	714	686	812	630	1,200	833	631
5	1,050	1,290	1,060	739	842	659	863	719	648	1,070	1,010	965
6	1,030	1,300	1,050	873	644	694	837	867	656	1,140	1,070	1,050
7	1,030	1,150	1,240	840	728	761	746	770	615	1,290	1,070	1,030
8	1,030	1,130	1,810	1,030	643	805	941	589	572	1,420	1,090	968
9	745	1,180	1,750	858	785	766	785	650	663	1,210	1,060	799
10	643	1,200	977	970	697	876	899	646	772	1,130	1,050	649
11	822	1,160	1,110	773	793	1,020	896	729	698	1,210	1,180	645
12	843	1,040	849	835	900	1,060	860	752	692	1,150	1,150	617
13	822	1,060	849	749	855	1,050	1,120	617	685	1,270	995	590
14	847	1,110	879	831	767	913	972	722	693	1,040	1,040	822
15	724	1,110	885	797	720	946	675	831	802	1,010	1,040	914
16	770	1,050	839	802	714	970	791	840	815	1,130	967	754
17	1,070	974	948	716	687	950	971	1,040	848	928	892	513
18	855	1,120	943	696	666	959	920	996	893	974	915	613
19	796	934	938	668	721	941	1,030	863	691	1,040	1,020	594
20	1,030	932	1,020	683	666	886	793	836	685	1,020	1,050	652
21	955	1,090	1,030	819	788	866	892	1,060	726	1,040	960	701
22	866	994	996	840	921	962	875	991	922	959	1,060	694
23	1,010	1,000	872	770	685	862	907	703	774	842	1,100	626
24	968	1,090	1,030	703	670	1,070	986	709	909	934	1,030	583
25	939	1,200	1,020	649	702	1,020	865	868	875	986	977	711
26	1,060	1,100	955	835	596	1,090	994	950	916	655	954	616
27	944	1,090	995	813	684	965	1,010	891	1,000	588	1,130	553
28	984	1,050	1,070	918	1,030	1,030	787	829	888	682	1,130	720
29	1,100	1,080	929	849	---	890	734	926	868	700	742	767
30	1,110	1,070	1,050	755	---	898	572	990	1,030	747	656	784
31	1,160	---	971	913	---	700	---	1,090	---	851	860	---
<b>Total</b>	29,239	33,314	32,445	25,372	21,010	28,256	25,561	25,646	23,365	31,746	29,990	22,021
<b>Mean</b>	943	1,110	1,047	818	750	911	852	827	779	1,024	967	734
<b>Max</b>	1,160	1,300	1,810	1,030	1,030	1,120	1,120	1,090	1,030	1,420	1,180	1,050
<b>Min</b>	643	932	839	649	596	659	572	589	572	588	590	513
<b>Ac-ft</b>	58,000	66,080	64,350	50,330	41,670	56,050	50,700	50,870	46,340	62,970	59,490	43,680

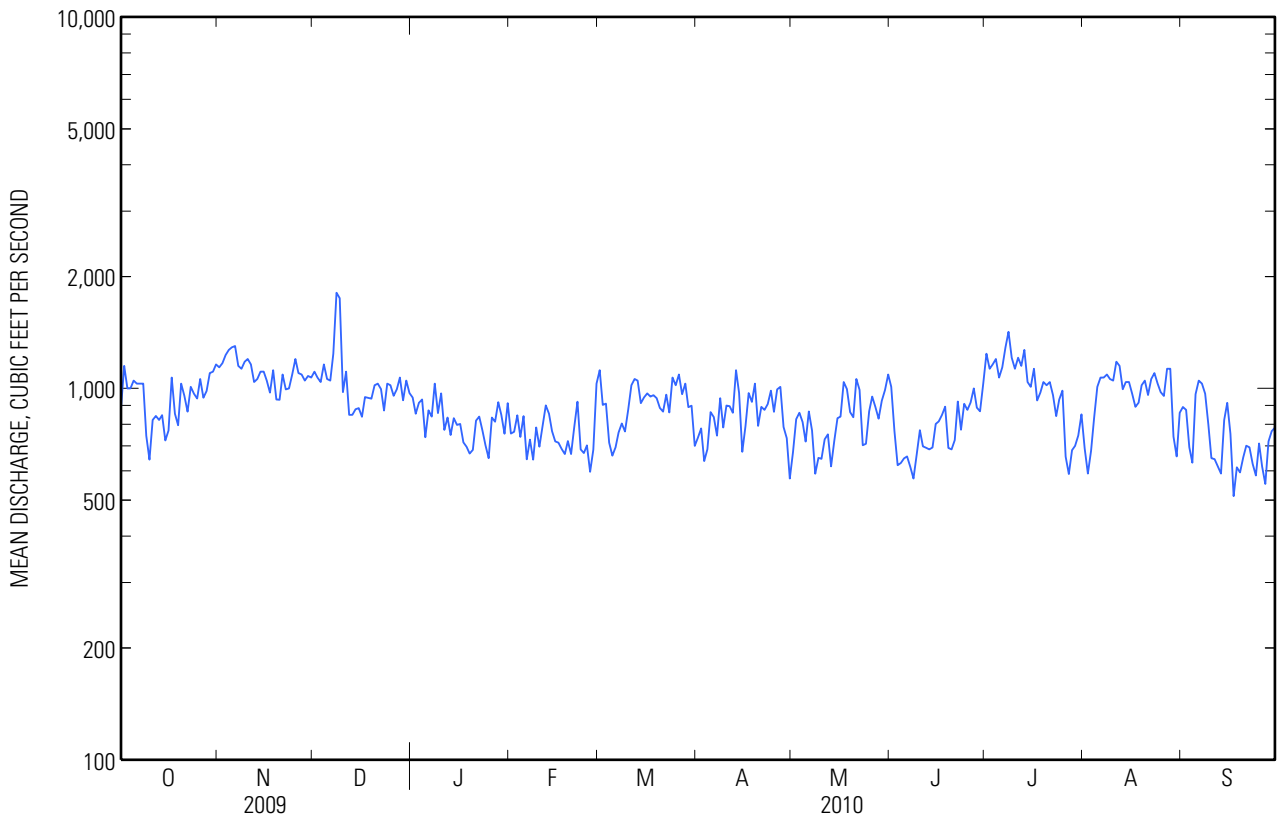
**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2010, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	954	1,232	1,521	1,696	1,567	1,872	1,840	1,366	1,009	782	739	748
<b>Max</b>	2,126	3,739	4,075	6,408	6,215	6,676	4,532	3,338	2,876	1,403	1,264	1,279
<b>(WY)</b>	(1966)	(1985)	(1984)	(1965)	(1965)	(1972)	(1974)	(1998)	(2006)	(2009)	(2001)	(1965)
<b>Min</b>	335	182	446	372	214	119	342	232	290	384	279	268
<b>(WY)</b>	(1982)	(1982)	(2005)	(1995)	(1994)	(1992)	(1991)	(1966)	(1964)	(1971)	(1973)	(2000)

11507500 LINK RIVER AT KLAMATH FALLS, OR—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1962 - 2010	
<b>Annual total</b>	363,703		327,965			
<b>Annual mean</b>	996		899		1,276	
<b>Highest annual mean</b>					2,200	1984
<b>Lowest annual mean</b>					547	1992
<b>Highest daily mean</b>	1,810	Dec 8	1,810	Dec 8	7,720	Mar 4, 1982
<b>Lowest daily mean</b>	272	Mar 1	513	Sep 17	48	Nov 30, 1968
<b>Annual seven-day minimum</b>	277	Feb 26	628	Sep 17	64	Feb 1, 1963
<b>Annual runoff (ac-ft)</b>	721,400		650,500		924,200	
<b>10 percent exceeds</b>	1,320		1,120		2,510	
<b>50 percent exceeds</b>	996		892		928	
<b>90 percent exceeds</b>	643		665		394	



**11507500 LINK RIVER AT KLAMATH FALLS, OR—Continued****WATER-QUALITY RECORDS**

## PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 2003 to current year.

INSTRUMENTATION.--Temperature probe and data logger.

## REMARKS.--

WATER TEMPERATURE: Records good except those for Jan. 19 to June 15, which are fair.

## EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 28.0°C July 27, 2006; minimum observed, -0.2°C Jan. 5, 2006.

## EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 25.3°C July 16; minimum, 0.5°C Jan. 25.

**TEMPERATURE, WATER, DEGREES CELSIUS  
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
<b>1</b>	12.9	11.3	12.1	8.6	7.4	8.0	3.4	2.6	3.0	3.7	3.2	3.5
<b>2</b>	12.8	11.4	12.1	8.8	7.8	8.3	3.1	1.9	2.7	3.7	3.1	3.4
<b>3</b>	12.0	10.3	11.0	8.6	7.9	8.3	2.1	1.5	1.8	3.8	3.3	3.6
<b>4</b>	10.3	8.2	9.1	8.9	7.9	8.4	2.5	1.9	2.2	4.2	3.2	3.6
<b>5</b>	9.2	7.7	8.3	8.8	8.1	8.5	2.4	1.6	2.1	4.4	3.8	4.1
<b>6</b>	9.5	8.0	8.7	8.5	7.9	8.3	2.7	1.9	2.4	4.4	4.1	4.3
<b>7</b>	10.6	8.6	9.4	7.9	7.1	7.4	2.2	1.5	1.8	4.4	4.0	4.2
<b>8</b>	11.7	9.7	10.6	7.2	6.4	6.8	2.4	1.4	1.9	4.4	4.0	4.2
<b>9</b>	12.3	10.7	11.4	6.8	6.1	6.3	1.9	1.5	1.7	4.3	3.8	4.1
<b>10</b>	12.3	11.2	11.8	6.9	5.7	6.2	2.7	1.7	2.3	4.3	3.9	4.1
<b>11</b>	12.6	11.2	11.9	6.6	6.3	6.4	3.4	2.7	3.1	4.5	3.9	4.3
<b>12</b>	12.2	11.3	11.6	6.3	5.0	5.5	3.8	3.0	3.4	4.0	2.7	3.1
<b>13</b>	11.3	9.2	9.9	5.0	3.8	4.2	3.7	3.0	3.4	3.0	2.6	2.9
<b>14</b>	9.6	8.8	9.1	4.0	3.2	3.6	3.6	3.0	3.2	3.2	2.7	3.0
<b>15</b>	10.9	9.3	9.9	4.0	3.1	3.6	3.3	2.9	3.1	3.5	3.0	3.2
<b>16</b>	12.2	10.8	11.3	4.0	3.2	3.7	3.8	2.7	3.1	3.4	3.0	3.2
<b>17</b>	13.3	11.7	12.4	3.9	3.2	3.5	3.9	3.5	3.7	3.3	3.0	3.1
<b>18</b>	13.6	12.5	13.0	3.2	2.6	3.0	4.3	3.6	4.0	3.0	2.6	2.8
<b>19</b>	13.4	12.0	12.7	3.2	2.5	2.9	4.2	3.7	4.0	2.7	2.3	2.5
<b>20</b>	12.0	11.1	11.4	3.1	2.2	2.7	4.3	3.8	4.1	2.4	1.7	2.0
<b>21</b>	11.7	10.8	11.2	2.5	1.7	2.1	4.1	3.2	3.7	1.7	1.2	1.4
<b>22</b>	11.9	10.8	11.3	2.6	2.1	2.4	3.3	2.2	2.9	1.7	1.3	1.5
<b>23</b>	12.0	11.2	11.6	2.6	1.8	2.2	3.8	2.4	3.1	1.6	1.1	1.4
<b>24</b>	11.9	11.3	11.5	3.0	2.2	2.6	4.0	3.2	3.6	1.4	0.6	0.9
<b>25</b>	11.6	10.6	11.2	3.1	2.5	2.8	4.2	3.4	3.8	1.0	0.5	0.7
<b>26</b>	11.6	10.2	11.0	3.2	2.7	3.0	4.0	3.2	3.6	1.6	0.7	1.1
<b>27</b>	10.2	7.5	8.6	3.7	3.0	3.4	3.8	3.0	3.5	1.9	1.5	1.7
<b>28</b>	7.5	6.0	6.4	3.2	2.3	2.6	3.6	3.2	3.4	2.2	1.6	1.9
<b>29</b>	6.7	5.8	6.3	2.6	2.0	2.3	3.4	3.0	3.2	2.5	2.0	2.3
<b>30</b>	7.4	6.5	6.8	3.0	2.3	2.7	3.7	2.9	3.3	2.8	2.2	2.5
<b>31</b>	8.0	6.8	7.3	---	---	---	3.5	2.7	3.2	2.9	2.4	2.6
<b>Month</b>	13.6	5.8	10.4	8.9	1.7	4.7	4.3	1.4	3.0	4.5	0.5	2.8

## 11507500 LINK RIVER AT KLAMATH FALLS, OR—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
<b>1</b>	2.9	2.5	2.7	6.2	5.2	5.8	7.5	6.3	6.9	10.4	8.8	9.6
<b>2</b>	3.1	2.3	2.7	6.2	5.6	6.0	7.2	6.1	6.6	10.9	9.0	10
<b>3</b>	3.1	2.5	2.9	5.6	4.6	5.1	6.1	5.6	5.9	11.0	10.0	10.6
<b>4</b>	3.3	2.8	3.1	5.3	4.3	4.8	5.7	5.0	5.4	10.7	9.2	10.1
<b>5</b>	3.3	2.7	3.0	5.6	4.8	5.2	5.6	4.4	5.1	10.8	9.5	10.1
<b>6</b>	3.6	3.1	3.3	5.8	5.1	5.4	6.1	5.1	5.6	10.5	8.7	9.7
<b>7</b>	4.0	3.2	3.7	6.5	5.3	5.9	7.1	5.4	6.4	11.2	9.4	10.2
<b>8</b>	4.4	3.8	4.1	6.5	5.2	6.0	8.0	7.0	7.4	12.0	10.5	11.2
<b>9</b>	4.4	4.0	4.2	5.2	4.3	4.8	7.7	6.3	7.1	12.6	11.4	11.8
<b>10</b>	4.1	3.6	3.8	5.2	4.1	4.6	7.7	7.1	7.3	11.7	10.2	11.0
<b>11</b>	4.2	3.6	3.9	5.0	4.3	4.7	7.1	6.5	6.8	11.2	9.5	10.4
<b>12</b>	4.2	3.6	3.9	4.7	3.6	4.2	7.0	6.1	6.6	12.0	10.1	11.2
<b>13</b>	4.7	4.0	4.4	4.0	3.0	3.6	7.5	6.6	7.1	13.0	11.4	12.3
<b>14</b>	4.8	4.5	4.7	4.8	3.6	4.3	8.3	7.0	7.7	14.2	11.3	12.7
<b>15</b>	5.3	4.5	4.9	6.2	4.7	5.4	9.2	7.7	8.5	15.4	14.1	14.8
<b>16</b>	5.9	5.3	5.6	7.2	5.8	6.5	10.0	8.4	9.2	15.9	14.9	15.4
<b>17</b>	6.2	5.5	5.9	7.4	6.3	6.9	10.7	9.3	10.0	15.5	14.5	14.9
<b>18</b>	6.0	5.3	5.6	7.3	6.4	7.0	11.9	10.0	10.9	15.0	14.0	14.4
<b>19</b>	5.8	5.0	5.4	8.0	6.6	7.4	12.0	11.0	11.5	14.4	13.5	13.9
<b>20</b>	5.6	5.0	5.2	9.0	7.6	8.3	11.6	10.3	11.2	13.5	12.8	13.2
<b>21</b>	5.0	4.2	4.6	9.2	8.6	8.8	10.3	8.2	9.0	12.9	11.6	12.4
<b>22</b>	4.5	3.7	4.3	9.1	8.3	8.8	9.0	7.6	8.4	11.6	10.6	10.9
<b>23</b>	4.5	3.8	4.2	9.4	8.3	8.9	10.7	8.3	9.4	11.6	10.0	10.8
<b>24</b>	4.4	3.6	4.0	10.0	8.7	9.4	11.3	9.4	10.4	11.3	10.6	10.9
<b>25</b>	5.0	4.2	4.6	9.8	8.6	9.3	12.1	10.4	11.3	10.8	10.4	10.5
<b>26</b>	5.0	4.5	4.8	8.6	7.4	7.9	11.8	11.0	11.4	11.0	10.0	10.5
<b>27</b>	5.0	4.0	4.6	8.3	7.2	7.8	11.2	9.7	10.4	11.4	10.3	10.8
<b>28</b>	5.7	4.5	5.2	8.4	7.9	8.1	10.1	8.9	9.4	12.2	10.6	11.4
<b>29</b>	---	---	---	8.3	7.7	7.9	9.2	8.2	8.7	13.3	11.0	12.2
<b>30</b>	---	---	---	7.7	7.0	7.3	9.7	7.9	8.8	14.4	12.7	13.5
<b>31</b>	---	---	---	7.4	6.6	6.9	---	---	---	14.7	14.1	14.4
<b>Month</b>	6.2	2.3	4.3	10.0	3.0	6.5	12.1	4.4	8.3	15.9	8.7	11.8

## 11507500 LINK RIVER AT KLAMATH FALLS, OR—Continued

**TEMPERATURE, WATER, DEGREES CELSIUS**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
<b>1</b>	15.5	14.3	14.8	20.3	18.9	19.7	22.9	21.6	22.3	17.5	15.3	16.2
<b>2</b>	15.4	14.7	15.1	19.7	18.5	19.1	22.9	22.0	22.6	19.0	16.9	17.7
<b>3</b>	14.9	14.4	14.7	19.0	17.5	18.3	23.8	22.0	22.7	19.6	18.2	19.0
<b>4</b>	15.5	14.3	14.9	19.1	17.6	18.5	24.3	22.4	23.2	20.2	18.8	19.6
<b>5</b>	15.9	15.0	15.5	19.6	18.2	18.9	23.8	22.4	23.0	19.8	17.7	18.5
<b>6</b>	16.5	15.8	16.1	19.5	18.6	19.2	23.2	21.8	22.4	17.8	16.6	17.2
<b>7</b>	17.3	15.6	16.5	20.4	18.7	19.6	22.3	21.2	21.8	17.5	16.5	17.0
<b>8</b>	17.6	16.5	17.0	21.0	19.4	20.1	22.2	20.8	21.5	17.0	15.9	16.6
<b>9</b>	17.6	16.2	16.9	21.8	20.3	21.1	22.3	20.8	21.6	15.9	14.4	15.0
<b>10</b>	16.6	15.6	16.1	23.2	20.9	22.0	21.8	20.6	21.0	15.2	13.6	14.4
<b>11</b>	16.2	14.9	15.6	23.8	22.0	22.9	21.5	19.8	20.6	16.6	15.0	15.7
<b>12</b>	17.6	15.6	16.3	24.0	22.5	23.3	22.3	20.0	20.9	17.8	15.7	16.6
<b>13</b>	18.1	16.4	17.4	23.4	22.1	22.8	23.2	21.5	22.3	17.8	16.9	17.4
<b>14</b>	19.1	17.5	18.2	22.8	21.4	22.2	22.7	21.1	21.9	18.8	16.6	17.6
<b>15</b>	18.0	16.3	---	23.5	21.8	22.6	22.1	21.0	21.5	18.4	17.5	18.0
<b>16</b>	---	---	---	25.3	22.9	23.9	23.1	21.3	22.1	18.6	17.1	17.8
<b>17</b>	---	---	---	25.1	24.0	24.6	23.2	22.3	22.8	18.6	17.9	18.1
<b>18</b>	---	---	---	24.8	23.7	24.3	23.4	21.2	22.2	18.0	17.3	17.5
<b>19</b>	---	---	---	24.1	22.8	23.3	23.3	21.7	22.5	17.4	16.2	16.7
<b>20</b>	---	---	---	23.3	22.3	22.7	22.8	21.3	22.1	16.6	15.4	15.9
<b>21</b>	---	---	---	22.8	21.6	22.3	22.5	21.2	21.8	16.4	15.3	15.7
<b>22</b>	---	---	---	23.2	21.8	22.5	21.2	19.6	20.2	15.8	14.7	15.3
<b>23</b>	---	---	---	23.2	22.0	22.7	19.9	18.4	19.1	16.0	14.9	15.5
<b>24</b>	19.8	18.4	19.2	23.6	22.1	22.8	20.3	18.7	19.4	17.2	15.2	16.0
<b>25</b>	20.6	19.1	19.8	23.8	22.8	23.3	21.3	19.4	20.3	17.5	16.2	16.9
<b>26</b>	20.8	19.4	20.2	24.0	22.7	23.3	21.6	20.6	21.1	17.6	16.3	16.9
<b>27</b>	21.4	20.1	20.8	24.0	22.7	23.2	20.6	19.0	19.5	17.9	16.6	17.3
<b>28</b>	21.9	20.6	21.4	23.5	22.2	22.8	19.0	16.4	17.6	19.2	17.3	18.1
<b>29</b>	22.0	20.9	21.4	23.4	22.5	23.0	16.5	15.3	16.0	19.2	17.9	18.6
<b>30</b>	21.1	19.8	20.3	23.5	22.4	22.9	16.3	14.8	15.4	19.5	18.2	18.9
<b>31</b>	---	---	---	23.0	21.9	22.5	16.0	14.1	15.0	---	---	---
<b>Month</b>	---	---	---	25.3	17.5	21.9	24.3	14.1	20.9	20.2	13.6	17.1