

**14330000 ROGUE RIVER BELOW PROSPECT, OR**

Southern Oregon Coastal Basin  
Upper Rogue Subbasin

LOCATION.--Lat 42°43'47", long 122°30'54" referenced to North American Datum of 1927, in SE ¼ NW ¼ sec.6, T.33 S., R.3 E., Jackson County, OR, Hydrologic Unit 17100307, on right bank, 600 ft downstream from Prospect No. 1 powerplant, 1.4 mi downstream from Mill Creek, 2.0 mi southwest of Prospect, 2.1 mi upstream from South Fork Rogue River and at mile 169.4.

DRAINAGE AREA.--379 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--August 1913 to September 1930, October 1968 to current year.

REVISED RECORDS.--WSP 1518: 1914-23, 1924(M), 1925, 1928.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,964.56 ft above NGVD of 1929 (PacifiCorp bench mark). Prior to September 1927, nonrecording gage at site 1,000 ft upstream, above powerplants, at different datum; also concurrent nonrecording gage on headrace to obtain equivalent combined flow.

REMARKS.--Records fair. Fluctuations caused by powerplant 600 ft upstream from station. Small diversions for irrigation upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--39 years, (water years 1969-2007), 1,453 ft<sup>3</sup>/s, 1,053,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12,200 ft<sup>3</sup>/s Jan. 1, 1997, gage height, 8.15 ft; minimum discharge, 166 ft<sup>3</sup>/s Sept. 29, 1992, result of regulation by upstream diversion gates.

EXTREMES OUTSIDE PERIOD OF RECORD.--Maximum discharge since at least 1890, 25,000 ft<sup>3</sup>/s Dec. 22, 1964, gage height, 12.4 ft, from floodmarks, from records for Rogue River above Prospect (station 14328000) and Rogue River below South Fork Rogue River, near Prospect (station 14335000) after adjusting for estimated intervening tributary inflow.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 6,820 ft<sup>3</sup>/s Dec. 14, gage height, 5.92 ft; Minimum discharge, 536 ft<sup>3</sup>/s July 31.

## 14330000 ROGUE RIVER BELOW PROSPECT, 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	987	955	1,270	1,770	1,260	1,520	1,890	1,980	1,440	1,060	949	838
2	989	974	1,210	1,690	1,240	1,540	1,810	2,010	1,430	1,060	921	827
3	984	1,100	1,190	2,470	1,240	1,540	1,750	2,030	1,450	1,040	918	825
4	979	1,250	1,170	2,830	1,230	1,640	1,740	e1,980	1,400	1,030	914	792
5	976	1,380	1,160	2,280	1,270	1,690	1,770	e1,920	1,510	1,010	890	767
6	971	1,360	1,170	2,110	1,320	1,750	1,850	e1,880	1,500	999	884	756
7	966	1,210	1,190	1,960	1,340	1,830	2,110	e1,850	1,440	988	902	768
8	967	1,580	1,210	1,890	1,410	1,950	2,120	1,890	1,390	977	900	819
9	963	1,300	1,260	1,870	1,510	1,910	2,200	1,980	1,370	971	894	809
10	955	1,200	1,320	1,850	1,530	1,860	2,060	1,980	1,530	964	882	811
11	958	1,210	1,370	1,800	1,830	1,900	1,970	1,960	1,410	964	884	806
12	961	1,150	2,170	1,650	1,780	2,240	1,920	1,920	1,340	1,000	879	801
13	966	1,340	4,140	1,560	1,670	2,410	1,830	1,860	1,320	964	881	801
14	967	1,770	5,770	1,590	1,610	2,420	1,950	1,790	1,310	945	870	798
15	978	1,410	4,610	1,510	2,080	2,280	1,910	1,780	1,290	943	864	806
16	1,150	1,820	2,950	1,520	2,700	2,220	1,850	1,800	1,280	940	867	803
17	1,140	1,580	2,410	1,510	2,640	2,350	1,910	1,790	1,250	934	857	803
18	1,030	1,430	2,060	1,460	2,360	2,470	1,840	1,760	1,240	1,070	859	805
19	1,000	1,390	1,890	1,440	2,120	2,460	1,800	1,740	1,220	1,140	935	804
20	996	2,300	1,760	1,430	2,000	2,450	1,760	1,720	1,200	1,040	938	804
21	981	1,990	1,820	1,390	1,930	2,260	1,770	1,730	1,180	1,010	901	798
22	974	1,930	1,710	1,380	1,870	2,110	1,950	1,620	1,160	993	876	795
23	969	1,860	1,750	1,360	1,760	2,070	1,940	1,570	1,150	985	869	792
24	972	1,620	1,800	1,330	1,730	2,070	1,900	1,560	1,130	978	858	792
25	966	1,550	2,480	1,330	1,710	2,270	1,900	1,560	1,120	973	858	797
26	965	1,490	3,520	1,320	1,640	2,280	1,880	1,540	1,100	955	851	795
27	961	1,440	3,120	1,320	1,580	2,110	1,870	1,530	1,100	968	850	795
28	959	1,370	2,510	1,310	1,560	1,960	1,940	1,500	1,090	948	848	815
29	958	1,280	2,220	1,290	---	1,890	1,980	1,460	1,090	946	839	837
30	954	1,280	2,020	1,290	---	1,850	2,000	1,450	1,080	941	836	828
31	952	---	1,880	1,280	---	1,870	---	1,440	---	914	852	---
<b>Total</b>	30,494	43,519	66,110	50,790	47,920	63,170	57,170	54,580	38,520	30,650	27,326	24,087
<b>Mean</b>	984	1,451	2,133	1,638	1,711	2,038	1,906	1,761	1,284	989	881	803
<b>Max</b>	1,150	2,300	5,770	2,830	2,700	2,470	2,200	2,030	1,530	1,140	949	838
<b>Min</b>	952	955	1,160	1,280	1,230	1,520	1,740	1,440	1,080	914	836	756
<b>Ac-ft</b>	60,480	86,320	131,100	100,700	95,050	125,300	113,400	108,300	76,400	60,790	54,200	47,780

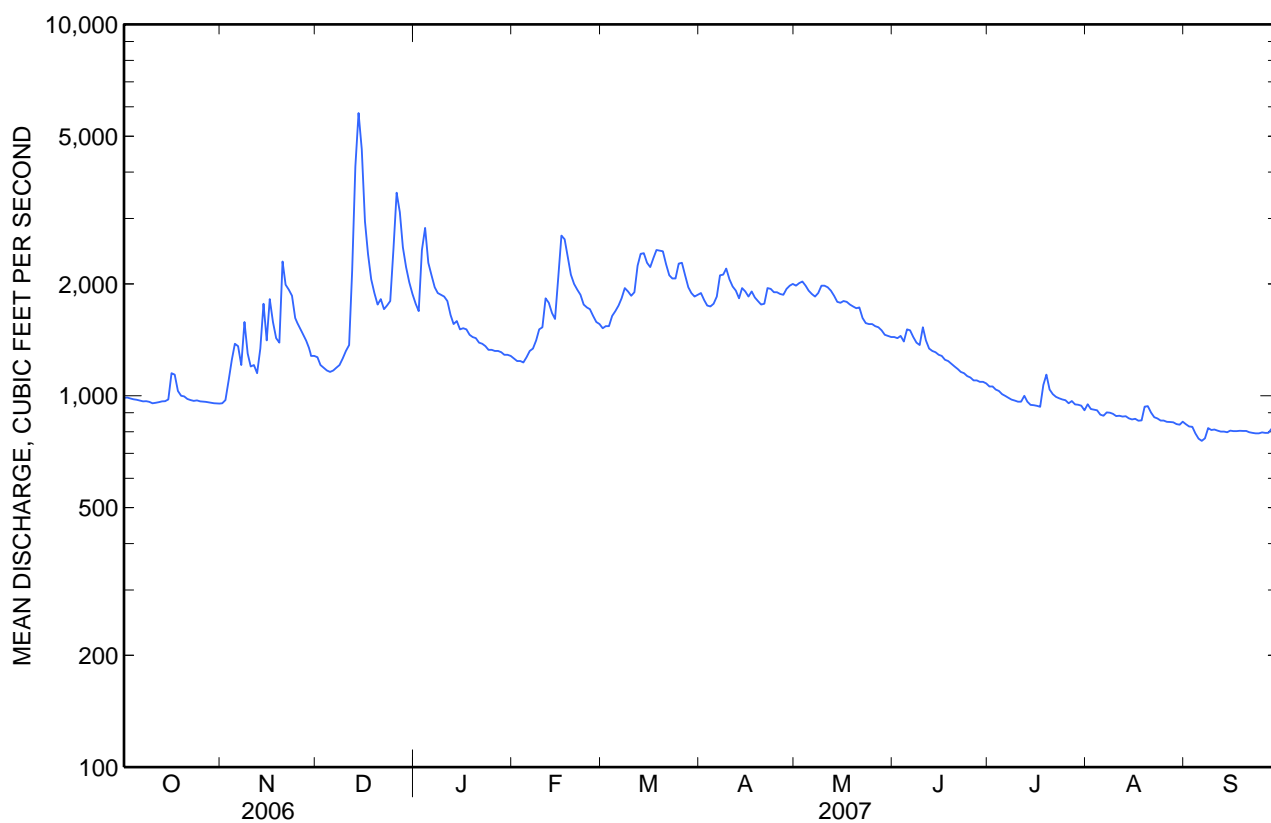
## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1969 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	925	1,195	1,562	1,697	1,673	1,808	1,900	2,024	1,606	1,167	981	914
<b>Max</b>	1,342	2,100	3,312	3,012	2,728	3,627	2,668	3,282	2,923	1,660	1,356	1,267
<b>(WY)</b>	(1985)	(1974)	(1997)	(1997)	(1996)	(1972)	(1989)	(1971)	(1974)	(1971)	(1984)	(1984)
<b>Min</b>	606	640	909	946	946	1,045	1,268	933	765	717	623	560
<b>(WY)</b>	(1993)	(2004)	(2003)	(1977)	(1977)	(1977)	(2001)	(1992)	(1992)	(1992)	(2001)	(2001)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1969 - 2007	
<b>Annual total</b>	635,883		534,336			
<b>Annual mean</b>	1,742		1,464		1,453	
<b>Highest annual mean</b>					2,053	1974
<b>Lowest annual mean</b>					957	2001
<b>Highest daily mean</b>	5,770	Dec 14	5,770	Dec 14	10,500	Jan 1, 1997
<b>Lowest daily mean</b>	866	Aug 30	756	Sep 6	499	Sep 12, 2001
<b>Annual seven-day minimum</b>	932	Aug 28	789	Sep 4	506	Sep 6, 2001
<b>Annual runoff (ac-ft)</b>	1,261,000		1,060,000		1,053,000	
<b>10 percent exceeds</b>	2,580		2,110		2,250	
<b>50 percent exceeds</b>	1,610		1,370		1,290	
<b>90 percent exceeds</b>	992		855		810	



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**WATER-QUALITY RECORDS**

PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: November 1976 to September 1981.

pH: November 1976 to September 1981.

WATER TEMPERATURE: October 1968 to current year.

DISSOLVED OXYGEN: October 1979 to September 1981.

SUSPENDED SEDIMENT DISCHARGE: November 1976 to September 1981 (October to April only, water year 1980, November to April only, water year 1981).

INSTRUMENTATION.--Temperature probe and data logger.

REMARKS.--

WATER TEMPERATURE: Records good. During low flows and warm weather, water temperatures may be influenced by return flows from hydroelectric plant 600 ft upstream.

EXTREMES FOR PERIOD OF DAILY RECORD.--

SPECIFIC CONDUCTANCE: Maximum, 73 microsiemens Sept. 22, 1980; minimum recorded, 28 microsiemens Jan. 13, 1980, but may have been lower during period of missing record Jan. 14-17, 1980.

pH: Maximum recorded, 8.3 units Aug. 10, 1981, but may have been higher during period of no record in July and August 1981; minimum, 7.0 units Nov. 30, 1976.

WATER TEMPERATURE: Maximum, 20.5°C July 20, 1979 (result of regulation); minimum, 0.0°C at times most years.

DISSOLVED OXYGEN: Maximum, 13.6 mg/L Dec. 8, 1980, Feb. 21, 1981; minimum, 7.2 mg/L June 21, 1980 (result of regulation.)

SEDIMENT CONCENTRATION: (water years 1977-79), Maximum daily mean, 1,270 mg/L (estimated) Jan. 11, 1979; minimum, 0 mg/L on many days each year; (period October 1979 to April 1981), maximum daily mean, 716 mg/L Oct. 25, 1979; minimum daily mean, 0 mg/L on several days in October and December 1979, Nov. 15-21, 28, Dec. 1, 1980, Jan. 19, 1981.

SEDIMENT DISCHARGE: (water years 1977-79), Maximum daily, 17,790 tons Dec. 15, 1977; minimum daily, 0 tons on many days each year; (period October 1979 to April 1981), maximum daily, 5,570 tons Jan. 13, 1980; minimum daily, 0 tons on several days in October and December 1979, Nov. 15-21, 28, Dec. 1, 1980, Jan. 19, 1981.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 16.0°C July 6; minimum, 0.0°C Jan. 13, 14.

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**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		
<b>1</b>	8.4	6.8	7.7	4.1	2.6	3.4	3.0	2.0	2.6	3.7	2.6	3.1
<b>2</b>	8.0	6.5	7.4	5.3	4.0	4.6	2.7	1.8	2.3	4.1	3.1	3.6
<b>3</b>	8.1	6.5	7.4	6.3	5.2	5.8	2.4	1.5	2.0	4.7	3.8	4.2
<b>4</b>	8.2	7.1	7.6	6.7	5.9	6.4	2.6	1.6	2.2	4.3	2.5	3.6
<b>5</b>	7.7	6.6	7.2	7.4	6.4	6.9	3.1	1.9	2.5	3.0	2.1	2.6
<b>6</b>	7.5	6.3	6.9	7.9	7.1	7.5	3.1	2.2	2.6	2.8	1.4	1.9
<b>7</b>	7.3	5.8	6.6	8.3	7.4	7.8	3.2	2.0	2.7	3.7	1.8	2.8
<b>8</b>	7.1	5.5	6.3	8.1	6.4	7.4	3.4	2.6	3.0	4.1	3.3	3.6
<b>9</b>	7.4	5.8	6.6	6.4	4.3	5.3	4.3	3.2	3.8	3.5	3.0	3.3
<b>10</b>	7.0	5.5	6.3	4.6	3.6	4.1	4.1	3.6	3.9	3.7	2.5	3.2
<b>11</b>	6.6	5.1	5.9	4.0	3.0	3.4	4.2	3.5	3.8	2.7	1.0	1.9
<b>12</b>	6.8	5.3	6.0	3.9	3.0	3.4	4.6	3.9	4.3	1.6	0.4	0.8
<b>13</b>	7.0	5.5	6.3	3.7	3.0	3.3	5.0	4.1	4.7	0.9	0.0	0.5
<b>14</b>	7.1	5.7	6.4	4.1	3.0	3.6	4.8	4.1	4.4	1.0	0.0	0.6
<b>15</b>	6.6	5.8	6.2	4.1	3.3	3.7	4.8	3.5	4.3	1.2	0.2	0.7
<b>16</b>	6.6	6.0	6.3	5.1	4.0	4.6	4.2	2.6	3.3	1.5	0.4	0.9
<b>17</b>	7.0	5.8	6.3	5.2	4.5	4.8	3.0	1.4	2.1	1.5	0.8	1.1
<b>18</b>	6.3	5.0	5.7	5.0	4.0	4.6	1.9	1.0	1.4	1.7	0.5	1.1
<b>19</b>	7.2	5.8	6.4	5.3	4.3	4.8	2.4	1.2	1.7	2.7	1.0	1.8
<b>20</b>	7.2	6.2	6.7	5.9	5.1	5.5	2.8	1.6	2.1	3.2	2.0	2.6
<b>21</b>	6.5	5.4	6.0	5.6	4.8	5.1	4.0	2.4	3.2	2.5	1.5	2.1
<b>22</b>	6.2	5.0	5.6	4.8	4.0	4.4	3.6	2.9	3.3	2.3	1.3	1.9
<b>23</b>	6.2	5.0	5.6	4.2	3.3	3.7	3.9	2.9	3.4	2.6	1.5	2.1
<b>24</b>	6.0	5.0	5.5	4.2	3.5	3.9	4.2	3.2	3.6	2.7	1.6	2.2
<b>25</b>	5.6	4.5	5.0	4.2	3.6	3.8	4.8	3.9	4.4	3.2	1.7	2.3
<b>26</b>	5.0	3.9	4.5	3.8	2.7	3.4	4.7	4.1	4.4	2.9	1.7	2.3
<b>27</b>	5.4	4.0	4.6	2.8	1.8	2.2	4.6	3.6	4.1	3.2	2.1	2.5
<b>28</b>	5.5	4.2	4.8	2.3	1.6	1.9	3.9	2.1	2.9	2.8	1.8	2.3
<b>29</b>	5.2	4.2	4.8	1.9	0.9	1.5	3.2	1.9	2.5	2.8	1.8	2.2
<b>30</b>	4.8	3.8	4.4	2.6	1.4	2.0	3.5	2.6	3.0	2.8	1.8	2.3
<b>31</b>	3.9	3.1	3.5	---	---	---	3.8	3.0	3.4	2.8	1.4	2.2
<b>Month</b>	8.4	3.1	6.0	8.3	0.9	4.4	5.0	1.0	3.2	4.7	0.0	2.2

## 14330000 ROGUE RIVER BELOW PROSPECT, 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>	2.4	1.4	1.9	2.7	1.5	2.1	6.3	5.0	5.6	8.2	6.6	7.4
<b>2</b>	2.7	1.4	1.9	2.3	1.7	2.0	5.9	4.2	5.1	7.2	6.0	6.6
<b>3</b>	3.2	1.8	2.5	3.8	1.8	2.7	6.3	4.7	5.4	---	---	---
<b>4</b>	4.0	2.7	3.3	4.5	2.9	3.6	7.4	5.5	6.2	---	---	---
<b>5</b>	4.2	3.1	3.7	5.2	3.6	4.3	7.7	5.7	6.5	---	---	---
<b>6</b>	4.4	3.3	3.8	5.0	3.4	4.2	8.0	6.2	7.0	---	---	---
<b>7</b>	4.2	3.4	3.8	4.6	3.8	4.1	7.8	6.5	7.3	---	---	---
<b>8</b>	4.0	3.2	3.6	4.9	3.4	4.2	6.6	5.5	6.0	10.4	8.6	9.4
<b>9</b>	4.2	3.1	3.6	4.4	3.4	3.9	6.5	5.4	6.0	10.4	8.7	9.4
<b>10</b>	4.3	3.2	3.8	4.9	3.1	4.0	5.9	4.3	5.2	10.1	8.5	9.2
<b>11</b>	4.4	3.6	4.1	5.8	4.1	4.9	5.9	4.9	5.5	9.4	8.4	8.9
<b>12</b>	4.3	3.4	3.9	5.4	4.3	4.9	5.1	4.0	4.6	9.8	7.6	8.7
<b>13</b>	4.7	3.5	4.0	5.7	4.4	5.0	6.4	4.0	5.2	8.8	7.0	7.9
<b>14</b>	4.1	3.3	3.7	5.5	4.0	4.8	6.5	5.5	6.1	9.7	7.4	8.5
<b>15</b>	4.5	3.5	4.0	5.5	3.9	4.7	6.6	4.6	5.5	10.4	8.1	9.1
<b>16</b>	5.1	4.3	4.7	5.9	4.1	5.0	6.3	5.2	5.7	10.9	8.9	9.7
<b>17</b>	4.9	4.2	4.5	6.2	4.4	5.3	6.2	5.0	5.8	10.7	8.8	9.6
<b>18</b>	4.8	3.8	4.3	6.3	4.6	5.5	5.4	3.8	4.6	10.6	8.6	9.5
<b>19</b>	4.3	3.3	3.8	5.8	4.5	5.2	5.2	4.2	4.7	10.5	9.1	9.6
<b>20</b>	4.4	3.3	3.9	5.6	4.6	5.1	6.3	3.8	5.0	9.1	7.1	8.2
<b>21</b>	3.3	2.0	2.8	5.2	3.6	4.5	5.7	5.0	5.3	8.8	6.3	7.4
<b>22</b>	3.0	1.6	2.1	5.8	4.0	4.8	5.8	4.4	5.1	9.4	6.5	7.8
<b>23</b>	3.1	2.0	2.6	6.2	4.5	5.4	7.6	5.1	6.2	10.0	7.2	8.4
<b>24</b>	3.2	2.2	2.6	6.5	5.2	5.8	8.4	6.3	7.3	11.1	7.9	9.4
<b>25</b>	2.8	2.0	2.4	6.2	5.2	5.8	8.3	7.0	7.7	10.6	9.0	9.7
<b>26</b>	2.6	1.7	2.1	5.3	4.3	4.7	7.9	6.1	7.0	11.4	8.6	9.9
<b>27</b>	2.6	1.5	2.2	4.6	3.5	4.0	9.0	6.7	7.7	11.9	9.7	10.6
<b>28</b>	2.5	1.6	2.0	5.0	3.1	4.0	9.4	7.6	8.4	10.8	8.6	9.5
<b>29</b>	---	---	---	5.6	3.7	4.6	9.3	7.8	8.4	11.5	8.1	9.7
<b>30</b>	---	---	---	6.4	4.4	5.4	9.1	7.6	8.3	12.6	9.0	10.7
<b>31</b>	---	---	---	6.8	5.7	6.3	---	---	---	13.2	10.1	11.5
<b>Month</b>	5.1	1.4	3.3	6.8	1.5	4.5	9.4	3.8	6.1	---	---	---

## 14330000 ROGUE RIVER BELOW PROSPECT, 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		
1	13.7	10.5	12.0	13.7	10.5	12.0	14.5	11.8	13.3	12.9	11.0	12.1
2	14.3	11.3	12.6	14.1	11.0	12.5	14.9	12.5	13.7	12.6	10.6	11.6
3	13.6	11.3	12.4	14.3	11.2	12.7	14.5	12.0	13.3	12.5	10.5	11.5
4	13.2	11.2	12.1	15.3	11.9	13.3	13.8	11.6	12.7	11.8	10.6	11.2
5	11.8	9.0	10.4	15.9	12.6	14.1	13.4	11.0	12.2	11.4	9.5	10.5
6	9.0	7.7	8.3	16.0	13.2	14.5	13.2	10.7	12.1	11.7	9.7	10.6
7	9.9	7.3	8.4	15.8	12.9	14.4	12.9	10.5	11.6	11.9	9.9	10.9
8	11.0	7.5	9.1	15.3	12.6	14.0	12.9	10.2	11.6	11.5	9.5	10.6
9	10.1	9.0	9.6	15.5	12.3	13.9	13.2	10.5	11.8	11.3	9.4	10.4
10	11.4	8.6	9.7	15.6	12.8	14.1	13.1	10.6	11.8	11.0	9.1	10.1
11	11.5	9.0	10.1	15.2	13.4	14.2	13.1	10.5	11.8	11.2	9.0	10.1
12	12.1	8.6	10.2	15.4	12.9	14.1	13.2	10.8	11.9	11.2	9.3	10.3
13	12.6	9.7	11.1	15.6	13.1	14.2	12.8	10.5	11.7	11.3	9.5	10.4
14	12.9	10.0	11.4	15.5	13.0	14.2	12.9	10.5	11.7	11.0	9.8	10.4
15	13.1	9.9	11.5	14.9	12.8	13.9	13.3	10.8	12.0	10.6	9.0	9.8
16	13.5	10.6	12.0	15.1	12.4	13.7	13.2	11.0	12.1	9.8	8.4	9.2
17	12.6	9.7	11.1	14.1	12.4	13.0	12.5	10.5	11.6	10.2	8.7	9.4
18	12.8	9.5	11.0	12.6	11.3	11.9	12.2	10.1	11.2	9.9	8.7	9.3
19	13.6	10.0	11.6	13.1	10.6	11.8	11.6	10.3	10.9	9.3	7.4	8.0
20	14.1	10.9	12.3	12.9	10.8	11.7	11.3	9.8	10.7	8.2	6.5	7.4
21	14.1	11.1	12.5	13.7	10.9	12.3	12.5	10.3	11.3	9.1	7.1	8.0
22	13.7	10.8	12.1	14.4	11.6	12.9	12.9	10.4	11.6	9.4	7.7	8.6
23	12.6	9.9	11.2	14.8	12.2	13.4	12.8	10.6	11.7	8.9	7.5	8.2
24	11.6	9.0	10.3	15.1	12.1	13.6	13.2	10.7	11.8	8.1	6.5	7.4
25	11.5	8.3	10	15.3	12.2	13.7	13.2	11.1	12.1	7.9	6.2	7.1
26	12.6	9.2	10.8	15.1	12.5	13.8	13.0	10.8	11.9	8.4	6.6	7.4
27	13.5	9.9	11.8	15.3	12.3	13.7	12.3	10.3	11.4	8.8	7.0	7.9
28	13.1	10.3	11.8	15.0	12.1	13.6	12.4	10.0	11.2	8.4	7.3	7.6
29	12.5	10.9	11.6	14.6	12.0	13.3	12.7	10.3	11.5	7.6	6.5	7.1
30	13.0	9.9	11.4	14.6	11.9	13.1	13.4	11.3	12.3	7.2	6.4	6.7
31	---	---	---	14.8	11.8	13.1	13.7	11.8	12.7	---	---	---
Month	14.3	7.3	11.0	16.0	10.5	13.4	14.9	9.8	11.9	12.9	6.2	9.3