

Water-Data Report 2009

14372300 ROGUE RIVER NEAR AGNESS, OR

Southern Oregon Coastal Basin
Lower Rogue Subbasin

LOCATION.--Lat 42°34'43", long 124°03'25" referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.6, T.35 S., R.11 W., Curry County, OR, Hydrologic Unit 17100310, on left bank, 0.8 mi upstream from Shasta Costa Creek, 1.5 mi north of Agness, 2.6 mi upstream from Illinois River and at mile 29.7.

DRAINAGE AREA.--3,939 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1960 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 113.81 ft above NGVD of 1929 (levels by U.S. Bureau of Public Roads).

REMARKS.--Records good except those for May to September and estimated daily discharges, which are fair. Flow regulated since February 1977 by Lost Creek Lake (station 14335040), since December 1980 by Applegate Lake (station 14361900), slight regulation by Fish Lake (active capacity, 7,850 acre-ft) and Emigrant Lake (active capacity, 39,000 acre-ft). Many diversions for irrigation and mining upstream from station.

AVERAGE DISCHARGE FOR PERIOD OF RECORD.--16 years (water years 1961-76), 6,622 ft³/s, 4,797,000 acre-ft/yr. 49 years (water years 1961-2009), 5,761 ft³/s, 4,174,000 acre-ft/yr.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 290,000 ft³/s Dec. 23, 1964, gage height, 68.03 ft, from floodmark, on basis of slope-area measurement of peak flow; minimum discharge, 608 ft³/s July 9, 10, 1968.

EXTREMES FOR CURRENT YEAR.--Maximum discharge, 47,800 ft³/s Dec. 29, gage height, 15.65 ft; minimum discharge, 1,360 ft³/s Sept. 26.

14372300 ROGUE RIVER NEAR AGNESS, OR—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,480	1,750	1,900	9,700	3,270	5,920	e4,900	3,430	e3,800	3,160	2,170	2,210
2	1,510	2,030	1,910	12,600	3,000	8,030	e4,900	3,490	e4,000	3,070	2,120	2,160
3	1,660	2,230	1,880	14,500	2,730	8,900	e5,500	3,800	e4,000	3,000	2,270	2,130
4	2,040	3,190	1,900	10,100	2,650	9,050	e5,300	6,140	e4,200	2,950	2,190	2,140
5	2,020	3,000	1,910	8,390	2,610	7,650	e5,000	11,000	e4,100	2,940	2,110	2,170
6	2,050	3,720	1,880	8,450	2,540	6,740	e4,600	12,000	e4,000	2,940	2,170	2,190
7	2,370	3,160	1,830	10,100	2,510	5,990	4,360	9,660	e3,800	2,940	2,170	2,180
8	1,840	2,970	1,810	10,900	2,500	5,420	4,310	8,260	e3,700	2,820	2,200	2,180
9	1,810	3,400	1,800	11,100	2,470	4,950	4,190	7,090	e3,600	2,720	2,200	2,130
10	1,790	3,150	1,790	9,520	2,460	4,530	4,280	6,330	3,520	2,630	2,190	2,080
11	1,700	3,410	1,780	8,030	2,820	4,160	4,630	5,930	3,630	2,550	2,140	2,070
12	1,820	4,490	1,990	7,200	3,050	3,890	4,390	e5,300	3,780	2,490	2,070	2,070
13	1,830	4,990	2,180	6,820	3,140	3,710	4,270	e5,100	3,930	2,420	2,030	2,030
14	1,820	4,000	2,160	6,690	3,190	3,630	4,210	e5,000	4,030	2,380	2,070	2,030
15	1,810	3,510	2,050	6,400	3,320	6,230	4,150	e6,500	3,840	2,280	2,070	1,980
16	1,770	3,160	1,990	5,930	3,450	14,200	4,020	e6,300	3,700	2,190	2,100	1,940
17	1,780	2,980	1,920	5,500	3,600	18,800	3,880	e6,500	3,630	2,210	2,110	1,860
18	1,750	2,860	1,970	5,220	3,480	12,200	3,760	e6,600	3,530	2,200	2,100	1,790
19	1,800	e2,800	2,270	5,030	3,300	9,070	3,660	e6,500	3,460	2,150	2,050	1,740
20	1,790	2,890	2,220	4,840	3,210	7,510	3,590	6,260	3,410	2,130	2,050	1,690
21	1,780	2,860	3,320	4,570	3,170	6,670	3,540	5,790	3,490	2,140	2,020	1,660
22	1,780	2,680	4,670	4,330	4,830	6,560	3,490	5,080	3,550	2,100	1,990	1,620
23	1,740	2,540	4,500	4,130	10,800	6,180	3,440	4,710	3,460	2,100	2,030	1,540
24	1,700	2,290	3,970	3,890	12,600	5,830	3,380	4,540	3,360	2,100	2,090	1,480
25	1,660	2,240	5,490	4,010	9,930	5,590	3,300	4,610	3,320	2,080	2,110	1,450
26	1,640	2,180	5,110	4,250	9,710	5,770	3,440	4,440	3,280	2,080	2,090	1,420
27	1,650	2,140	5,410	3,990	7,860	6,070	3,410	4,180	3,270	2,100	2,080	1,420
28	1,660	2,030	18,600	3,780	6,480	e6,000	3,350	4,030	3,280	2,090	2,080	1,420
29	1,650	1,980	39,800	3,730	---	e5,700	3,480	3,930	3,210	2,050	2,120	1,450
30	1,630	1,930	26,800	3,740	---	e5,400	3,540	3,870	3,230	2,060	2,160	1,490
31	1,680	---	12,700	3,560	---	e5,100	---	3,840	---	2,500	2,180	---
Total	55,010	86,560	169,510	211,000	124,680	215,450	122,270	180,210	109,110	75,570	65,530	55,720
Mean	1,775	2,885	5,468	6,806	4,453	6,950	4,076	5,813	3,637	2,438	2,114	1,857
Max	2,370	4,990	39,800	14,500	12,600	18,800	5,500	12,000	4,200	3,160	2,270	2,210
Min	1,480	1,750	1,780	3,560	2,460	3,630	3,300	3,430	3,210	2,050	1,990	1,420
Ac-ft	109,100	171,700	336,200	418,500	247,300	427,300	242,500	357,400	216,400	149,900	130,000	110,500

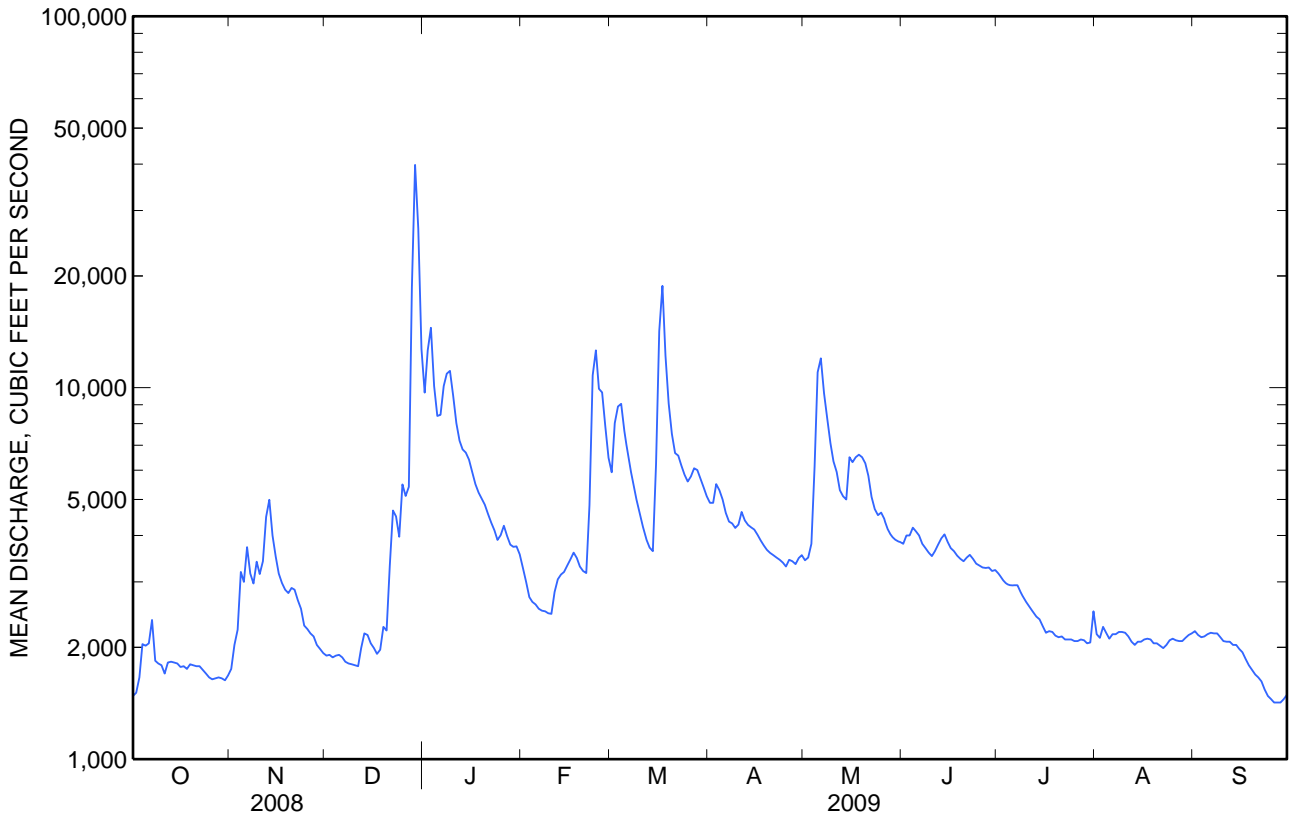
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1961 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,908	4,670	10,070	12,110	9,897	8,936	6,740	5,522	3,521	2,177	1,942	1,813
Max	5,070	20,240	43,980	33,800	30,280	25,590	15,090	11,310	6,292	3,849	3,370	3,187
(WY)	(1963)	(1974)	(1965)	(1997)	(1983)	(1972)	(1982)	(1963)	(1993)	(1999)	(1984)	(1983)
Min	1,090	1,386	1,555	1,623	1,550	2,023	1,479	2,124	1,293	864	877	935
(WY)	(2002)	(1988)	(1977)	(1977)	(1977)	(2001)	(1977)	(1992)	(1977)	(1968)	(1973)	(1968)

14372300 ROGUE RIVER NEAR AGNESS, OR—Continued

SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1961 - 2009	
Annual total	1,948,250		1,470,620			
Annual mean	5,323		4,029		5,761	
Highest annual mean					11,990	1974
Lowest annual mean					1,583	1977
Highest daily mean	39,800	Dec 29	39,800	Dec 29	240,000	Dec 23, 1964
Lowest daily mean	1,460	Sep 28	1,420	Sep 26	704	Aug 1, 1968
Annual seven-day minimum	1,480	Sep 26	1,450	Sep 24	742	Jul 27, 1968
Annual runoff (ac-ft)	3,864,000		2,917,000		4,174,000	
10 percent exceeds	9,090		6,770		11,600	
50 percent exceeds	4,020		3,230		3,270	
90 percent exceeds	1,810		1,800		1,460	



14372300 ROGUE RIVER NEAR AGNESS, OR—Continued**WATER-QUALITY RECORDS**

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: October 1960 to September 1987, January 1995 to current year.

INSTRUMENTATION.--Temperature probe and data logger.

REMARKS.--

WATER TEMPERATURE: Records good except those for Nov. 19 to Apr. 6, which are poor.

EXTREMES FOR PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: Maximum, 26.5°C on several days in 1962, Aug. 3, 6, 9-11, 1977; minimum, 1.0°C Jan. 22-25, 1962, Dec. 9-16, 1972, Jan. 9, 10, 1977, Jan. 1-3, 1979, Dec. 23, 24, 1999.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 24.7°C July 30; minimum, 3.3°C Dec. 20.

**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	17.9	16.2	16.8	11.4	10.8	11.2	8.1	7.5	7.8	7.4	6.9	7.1
2	17.3	16.1	16.8	12.0	11.2	11.5	8.3	7.8	8.0	7.8	7.3	7.6
3	17.0	16.3	16.7	11.7	11.3	11.5	8.2	7.7	7.9	7.3	6.1	6.6
4	16.6	16.0	16.3	11.4	10.3	11.1	8.0	7.4	7.7	6.1	5.3	5.6
5	16.1	15.2	15.7	10.5	9.8	10.1	7.6	6.9	7.3	5.6	5.3	5.5
6	16.7	15.1	15.6	9.9	9.6	9.8	7.3	6.7	7.0	6.8	5.6	6.2
7	16.5	14.7	15.4	10.4	9.6	9.9	6.8	6.4	6.6	7.4	6.8	7.1
8	16.0	14.2	14.8	10.6	10.0	10.2	6.8	6.2	6.5	7.7	7.3	7.6
9	14.4	13.2	13.9	10.8	10.2	10.4	6.3	5.8	6.1	7.5	6.6	7.1
10	14.0	12.6	13.3	10.8	10.2	10.5	6.0	5.5	5.8	6.6	5.9	6.3
11	12.8	11.5	12.2	10.6	10.1	10.4	6.0	5.4	5.6	6.1	5.7	5.9
12	12.2	10.7	11.5	11.0	10.5	10.8	5.6	5.3	5.5	6.1	5.6	5.8
13	11.8	10.0	10.8	11.2	10.6	10.9	5.4	4.8	5.2	6.2	5.6	5.9
14	12.0	9.9	10.7	11.0	10.2	10.6	4.8	4.0	4.4	6.2	5.7	5.9
15	12.1	10.1	11.0	10.7	10.0	10.4	5.2	4.0	4.7	5.9	5.5	5.7
16	12.9	10.7	11.7	10.6	9.6	10.2	5.1	4.5	4.8	5.6	5.1	5.3
17	13.4	11.5	12.3	9.8	9.1	9.5	4.6	4.2	4.4	5.2	4.9	5.0
18	13.7	11.9	12.8	9.7	8.9	9.3	4.3	3.8	4.1	5.0	4.8	4.9
19	14.5	12.7	13.4	---	9.0	9.2	3.8	3.4	3.6	5.0	4.7	4.9
20	13.5	12.5	13.0	9.1	8.7	8.9	3.8	3.3	3.5	5.1	4.7	4.9
21	13.8	12.2	12.7	9.0	8.6	8.7	5.2	3.8	4.6	5.3	4.7	5.0
22	12.3	11.0	11.7	8.9	8.5	8.7	5.5	5.2	5.3	5.6	5.2	5.3
23	12.0	10.5	11.2	8.7	8.0	8.4	5.8	5.5	5.6	6.3	5.6	5.9
24	11.4	10.0	10.7	8.2	7.9	8.0	5.7	5.5	5.6	7.3	6.3	6.8
25	11.3	9.6	10.5	8.4	7.8	8.0	5.7	5.2	5.5	7.6	7.3	7.4
26	11.1	10.0	10.6	8.0	7.4	7.7	5.5	5.2	5.4	7.4	6.8	7.2
27	11.2	10.2	10.7	7.9	7.4	7.6	6.5	5.5	5.8	6.8	6.1	6.4
28	11.9	10.4	11.0	8.0	7.5	7.7	7.5	6.5	7.2	6.6	6.0	6.3
29	11.6	10.4	11.0	8.1	7.6	7.8	7.8	7.4	7.5	6.3	5.8	6.1
30	11.3	10.3	10.8	8.2	7.7	7.8	7.4	6.7	6.9	6.4	5.7	6.0
31	11.5	10.6	11.1	---	---	---	6.9	6.8	6.8	6.4	5.6	6.1
Month	17.9	9.6	12.8	---	7.4	9.6	8.3	3.3	5.9	7.8	4.7	6.1

14372300 ROGUE RIVER NEAR AGNESS, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	5.9	5.3	5.5	8.9	8.5	8.7	10.0	9.1	9.5	13.3	12.5	12.8
2	5.8	5.3	5.5	9.1	8.8	9.0	10.6	9.5	10.0	13.7	13.0	13.4
3	6.1	5.3	5.6	9.0	8.6	8.8	10.8	9.8	10.3	14.1	13.1	13.4
4	6.2	5.6	5.8	8.7	8.2	8.4	10.8	9.2	10.1	13.2	11.8	12.7
5	6.4	6.0	6.2	8.4	8.1	8.2	11.1	9.5	10.4	11.8	11.2	11.5
6	7.3	6.4	6.8	8.7	8.0	8.2	11.8	10.0	10.9	11.8	11.4	11.6
7	7.9	6.9	7.3	8.4	7.7	8.0	12.1	11.2	11.5	12.0	11.6	11.8
8	7.9	7.3	7.6	8.2	7.7	8.0	12.2	11.3	11.7	12.5	11.6	11.9
9	7.9	7.2	7.5	8.0	7.3	7.7	11.5	10.7	11.0	13.2	11.6	12.3
10	7.2	6.2	6.7	7.9	7.2	7.5	11.6	10.6	11.0	14.3	11.9	12.9
11	6.2	5.3	5.8	8.0	6.9	7.4	11.6	10.5	11.0	15.1	12.6	13.7
12	5.6	5.2	5.4	8.3	7.1	7.7	11.7	10.9	11.2	15.0	13.0	13.8
13	6.1	5.3	5.7	9.0	7.8	8.3	11.7	11.0	11.4	13.6	12.6	13.1
14	6.7	5.9	6.3	8.7	8.5	8.6	11.6	10.6	11.2	13.6	11.9	12.6
15	7.1	6.4	6.7	8.8	8.5	8.7	11.4	10.5	11.0	14.7	12.2	13.3
16	7.4	6.7	7.0	8.7	8.3	8.5	11.2	10.1	10.7	15.8	13.3	14.4
17	7.9	7.2	7.4	8.6	8.4	8.5	11.5	10.6	11.1	16.5	13.8	15.0
18	8.1	7.4	7.6	9.3	8.6	8.9	12.8	11.1	11.9	17.4	14.6	15.8
19	7.9	7.4	7.6	10.2	9.1	9.7	14.0	12.2	13.0	16.7	14.4	15.6
20	8.0	7.4	7.6	10.7	9.7	10.2	15.3	13.4	14.2	15.7	13.7	14.7
21	7.9	7.4	7.7	10.6	10.2	10.4	16.7	14.7	15.5	15.6	13.3	14.2
22	8.3	7.7	8.1	10.3	9.5	9.8	17.3	15.7	16.3	16.6	13.3	14.7
23	8.6	8.3	8.4	9.6	9.0	9.3	16.7	15.1	15.9	17.0	14.2	15.5
24	8.7	8.5	8.6	9.4	8.5	8.9	15.9	14.2	15.1	17.2	14.9	16.1
25	8.9	8.6	8.7	9.6	8.6	9.0	15.0	13.6	14.2	17.7	15.3	16.6
26	8.7	8.3	8.5	10.1	9.3	9.7	14.6	13.1	13.7	17.6	15.3	16.6
27	8.6	8.1	8.3	11.3	9.8	10.4	13.7	12.8	13.2	18.1	15.7	17.0
28	8.7	8.0	8.3	11.9	10.6	11.2	13.0	11.9	12.6	18.8	16.3	17.7
29	---	---	---	11.5	10.6	11.1	13.0	11.8	12.2	19.2	17.3	18.5
30	---	---	---	10.8	9.6	10.3	12.8	11.4	12.1	19.7	17.9	19.0
31	---	---	---	10.2	9.3	9.8	---	---	---	19.5	18.3	19.0
Month	8.9	5.2	7.1	11.9	6.9	9.0	17.3	9.1	12.1	19.7	11.2	14.6

14372300 ROGUE RIVER NEAR AGNESS, OR—Continued

TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2008 TO SEPTEMBER 2009

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	19.3	18.3	18.9	19.8	18.1	18.9	24.2	22.0	23.0	20.7	18.7	19.6
2	19.0	17.8	18.6	20.3	18.5	19.2	23.1	21.8	22.4	21.2	19.1	20.0
3	19.0	17.4	18.4	21.1	18.9	19.9	23.7	21.5	22.4	21.1	19.1	19.9
4	18.5	17.3	17.8	21.9	19.6	20.5	22.6	21.0	21.7	20.2	19.0	19.5
5	17.9	16.4	17.3	21.7	19.6	20.4	22.9	20.7	21.5	19.7	18.8	19.1
6	18.1	16.1	17.1	21.1	19.1	19.9	21.4	20.1	20.7	19.3	18.0	18.7
7	18.2	16.5	17.4	20.4	18.4	19.3	20.4	19.2	19.8	18.9	17.1	17.9
8	18.6	17.0	17.9	20.0	18.0	18.8	20.1	18.1	19.0	19.0	17.2	17.8
9	18.4	16.8	17.6	19.9	17.7	18.6	20.6	18.4	19.3	18.7	16.8	17.6
10	18.0	17.0	17.5	20.6	18.1	19.1	21.1	18.4	19.5	19.1	17.2	18.0
11	17.6	16.9	17.3	21.2	18.7	19.5	21.9	19.2	20.3	19.9	17.8	18.6
12	18.1	16.9	17.4	20.3	18.9	19.3	22.5	20.2	21.1	19.9	18.3	18.9
13	18.4	16.8	17.7	21.3	18.6	19.6	22.3	20.4	21.1	19.4	18.5	18.8
14	18.9	17.0	18.1	21.4	18.7	20.0	21.8	19.7	20.5	18.9	18.3	18.6
15	19.3	17.5	18.5	21.8	19.3	20.3	21.3	19.3	20.1	19.5	17.7	18.4
16	19.0	17.8	18.4	22.4	19.6	20.8	21.1	18.9	19.8	18.5	17.6	18.0
17	19.4	17.9	18.7	22.8	20.4	21.4	21.1	18.9	19.8	19.2	17.2	18.0
18	19.5	17.9	18.8	23.0	20.9	21.8	21.6	19.2	20.2	19.3	17.2	18.2
19	19.5	18.5	19.0	23.2	20.8	21.8	22.2	19.9	20.8	19.0	17.7	18.2
20	18.7	17.1	17.8	23.3	20.8	21.9	22.4	20.0	21.0	18.8	17.1	18.0
21	17.4	15.6	16.7	23.2	20.8	21.8	22.4	20.3	21.2	19.2	17.1	18.1
22	16.7	14.8	15.7	23.1	20.7	21.7	22.4	20.3	21.1	18.9	16.9	18.0
23	17.4	15.2	16.3	23.4	20.9	21.9	21.8	19.8	20.6	18.6	17.0	17.9
24	18.4	16.5	17.5	23.3	20.9	21.9	21.5	19.4	20.2	18.3	17.1	17.7
25	19.2	17.7	18.4	23.5	21.0	22.0	20.9	18.8	19.7	18.2	17.2	17.7
26	19.4	18.0	18.6	23.8	21.3	22.3	21.1	18.8	19.7	18.4	17.1	17.6
27	19.4	17.8	18.5	24.1	21.7	22.7	21.1	18.8	19.8	18.2	17.1	17.6
28	19.4	17.7	18.5	24.5	22.1	23.1	19.8	19.1	19.4	18.0	16.7	17.2
29	19.7	18.1	18.8	24.6	22.1	23.1	20.7	18.7	19.4	16.8	15.9	16.4
30	19.8	18.2	18.9	24.7	22.3	23.2	20.2	18.3	19.1	16.3	15.3	15.8
31	---	---	---	24.3	22.3	23.1	20.8	18.7	19.5	---	---	---
Month	19.8	14.8	17.9	24.7	17.7	20.9	24.2	18.1	20.4	21.2	15.3	18.2