

Water-Data Report 2007

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.--No estimated daily discharges. Records good except for those June 1 to Sept. 30, 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. 31 years (water years 1977-2007), 5,376 ft³/s, 3,894,000 acre-ft/yr, regulated period.

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, 81,200 ft³/s Dec. 26, gage height, 20.82 ft; minimum discharge, 1,260 ft³/s Sept. 29.

14372300 ROGUE RIVER NEAR AGNESS, OR—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,550	1,650	4,640	10,400	3,180	11,600	5,420	4,780	3,710	2,240	1,890	2,150
2	1,610	1,750	4,550	9,660	3,080	11,100	5,190	5,360	3,680	2,150	1,880	2,070
3	1,950	2,180	4,290	13,900	2,890	13,600	4,940	6,250	3,650	2,080	1,810	2,110
4	1,460	2,310	4,000	26,800	2,730	15,600	4,710	6,170	3,650	2,040	1,750	2,160
5	1,460	2,750	3,790	21,800	2,690	16,500	4,570	5,680	3,690	2,010	1,750	2,200
6	1,460	2,430	3,570	17,700	2,700	16,000	4,440	5,240	3,900	1,990	1,810	2,200
7	1,390	2,960	3,480	17,500	2,770	14,800	4,340	4,870	4,080	1,960	1,850	2,160
8	1,460	3,370	3,350	15,000	3,030	14,000	4,330	4,650	3,900	1,960	1,850	2,140
9	1,460	3,640	3,390	13,400	3,840	12,600	4,380	4,820	3,510	2,020	1,840	2,140
10	1,440	3,310	3,740	12,200	4,170	12,000	4,250	4,780	3,210	1,940	1,840	2,180
11	1,420	4,330	4,440	11,300	6,590	11,600	4,260	4,900	3,190	1,950	1,850	2,170
12	1,420	3,970	7,310	9,890	9,210	11,600	4,680	4,620	3,090	2,040	1,950	2,130
13	1,420	4,770	17,100	8,460	7,130	11,800	4,760	4,260	3,000	2,110	2,030	2,080
14	1,420	5,790	32,600	7,590	5,810	11,100	4,770	4,250	2,940	2,080	2,030	2,110
15	1,480	5,260	27,600	6,810	5,910	10,200	5,200	4,010	2,920	2,040	2,060	2,140
16	1,580	5,080	19,200	6,360	7,560	9,550	5,200	3,860	2,840	2,040	1,990	2,190
17	1,660	4,640	14,200	5,970	7,050	9,030	4,930	3,740	2,880	2,030	1,970	2,220
18	1,660	4,430	11,500	5,390	6,420	8,630	5,210	3,670	2,890	2,190	1,970	2,180
19	1,620	4,340	9,800	5,030	5,860	8,520	5,640	3,620	2,860	2,420	2,100	2,060
20	1,550	6,000	8,260	4,900	5,550	8,460	5,820	3,580	2,800	2,490	2,240	1,990
21	1,530	6,570	8,820	4,710	5,640	8,150	5,540	3,570	2,750	2,280	2,230	1,930
22	1,530	8,630	9,850	4,430	8,620	7,560	6,290	3,560	2,730	2,210	2,130	1,810
23	1,510	11,300	9,240	4,180	10,900	6,930	7,060	3,420	2,740	2,180	2,100	1,690
24	1,500	9,420	8,990	4,040	10,100	6,410	6,530	3,280	2,760	2,090	2,090	1,580
25	1,500	7,560	20,000	3,960	22,200	6,340	6,020	3,020	2,790	2,040	2,060	1,450
26	1,490	7,070	74,500	3,870	23,000	6,650	5,580	3,010	2,760	2,040	2,040	1,410
27	1,520	8,230	53,900	3,750	17,000	7,270	5,230	3,370	2,660	2,010	2,070	1,420
28	1,600	7,680	27,100	3,640	13,700	7,410	4,960	3,490	2,550	1,970	2,090	1,440
29	1,640	5,950	18,000	3,510	---	6,910	4,740	3,890	2,480	1,930	2,070	1,470
30	1,630	4,990	13,900	3,370	---	6,370	4,640	3,830	2,380	1,920	2,040	1,800
31	1,630	---	11,700	3,270	---	5,840	---	3,750	---	1,920	2,040	---
Total	47,550	152,360	446,810	272,790	209,330	314,130	153,630	131,300	92,990	64,370	61,420	58,780
Mean	1,534	5,079	14,410	8,800	7,476	10,130	5,121	4,235	3,100	2,076	1,981	1,959
Max	1,950	11,300	74,500	26,800	23,000	16,500	7,060	6,250	4,080	2,490	2,240	2,220
Min	1,390	1,650	3,350	3,270	2,690	5,840	4,250	3,010	2,380	1,920	1,750	1,410
Ac-ft	94,320	302,200	886,200	541,100	415,200	623,100	304,700	260,400	184,400	127,700	121,800	116,600

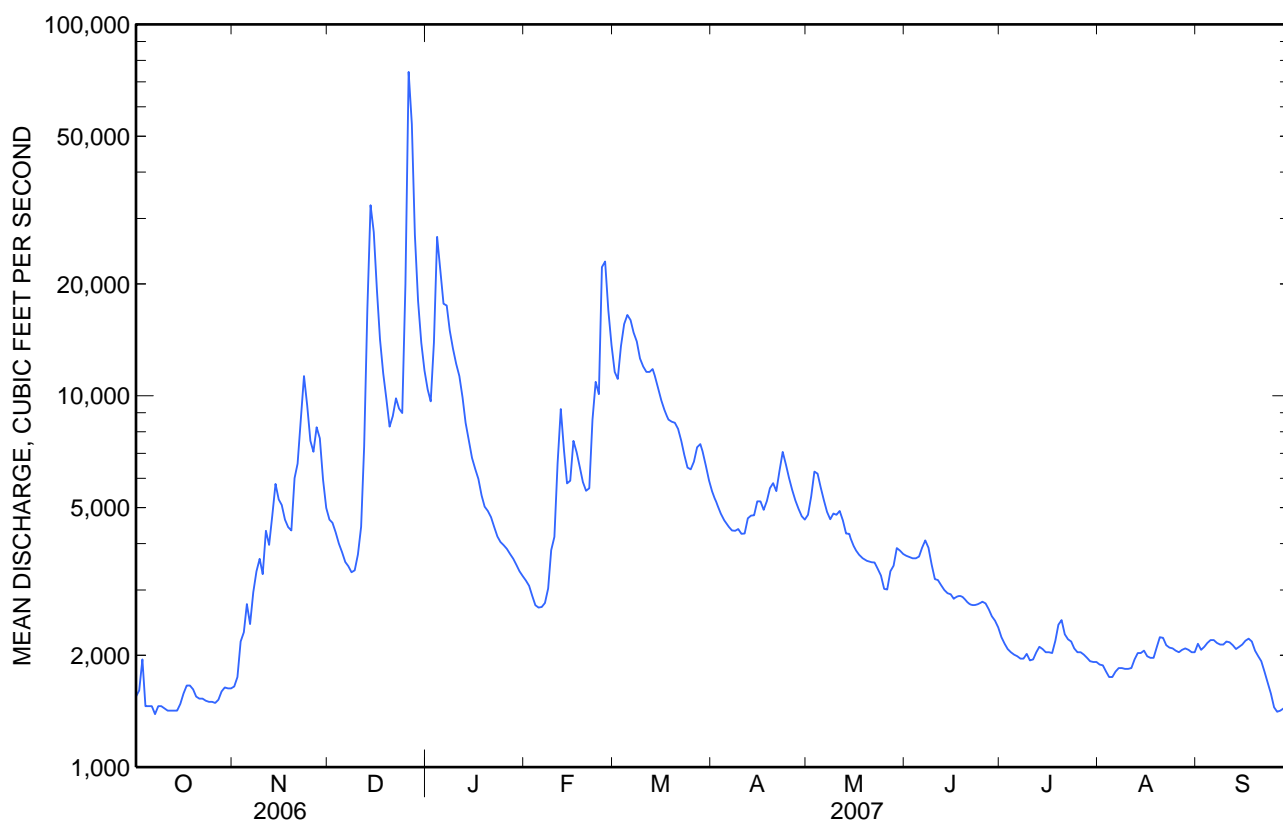
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1977 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,894	4,315	9,531	10,180	9,420	7,741	6,351	5,163	3,469	2,362	2,216	2,050
Max	3,497	16,650	37,410	33,800	30,280	17,750	15,090	8,905	6,292	3,849	3,370	3,187
(WY)	(1983)	(1985)	(1997)	(1997)	(1983)	(1983)	(1982)	(1996)	(1993)	(1999)	(1984)	(1983)
Min	1,090	1,386	1,555	1,623	1,550	2,023	1,479	2,124	1,293	935	897	1,346
(WY)	(2002)	(1988)	(1977)	(1977)	(1977)	(2001)	(1977)	(1992)	(1977)	(1977)	(1977)	(1980)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1977 - 2007	
Annual total	3,031,100		2,005,460			
Annual mean	8,304		5,494		5,376	
Highest annual mean					10,180	1997
Lowest annual mean					1,583	1977
Highest daily mean	81,700	Jan 1	74,500	Dec 26	194,000	Jan 2, 1997
Lowest daily mean	1,390	Sep 28	1,390	Oct 7	773	Aug 4, 1977
Annual seven-day minimum	1,420	Sep 24	1,430	Oct 7	817	Aug 12, 1977
Annual runoff (ac-ft)	6,012,000		3,978,000		3,894,000	
10 percent exceeds	19,500		11,500		10,900	
50 percent exceeds	5,080		3,650		3,060	
90 percent exceeds	1,650		1,660		1,590	



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 fair.

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, 26.2°C, July 10; minimum, 2.7°C Jan. 16.

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	17.6	15.8	16.6	9.1	7.3	8.2	7.2	5.7	6.5	7.1	6.0	6.5
2	17.5	16.1	16.7	9.3	8.2	8.6	7.0	5.5	6.4	7.2	6.3	6.7
3	16.6	16.0	16.2	9.8	8.7	9.2	7.2	5.9	6.5	8.6	6.8	8.0
4	17.0	15.6	16.3	10.6	9.0	9.8	6.9	5.7	6.3	8.5	7.3	7.9
5	17.1	15.6	16.1	11.6	9.9	10.9	6.6	5.4	6.1	7.7	6.6	7.1
6	16.4	14.8	15.5	12.4	11.1	11.8	6.8	5.4	6.0	7.4	6.3	6.9
7	15.7	14.2	15.1	13.1	11.9	12.3	6.6	5.3	5.9	7.9	7.0	7.5
8	15.4	14.2	14.7	12.6	11.4	12.1	6.7	5.3	6.1	8.2	7.5	7.8
9	15.3	13.7	14.5	11.6	10.4	11.1	7.1	6.0	6.5	8.2	7.4	7.8
10	14.7	13.2	14.0	10.7	9.6	10.2	7.6	6.4	6.9	7.8	6.6	7.3
11	14.6	12.8	13.7	10.1	8.9	9.6	8.6	7.2	7.9	7.1	5.5	6.5
12	14.3	12.9	13.5	9.4	8.3	8.9	9.2	8.2	8.7	6.2	4.2	5.4
13	14.2	12.5	13.3	9.2	8.2	8.8	9.8	8.9	9.5	5.0	3.5	4.4
14	14.0	12.7	13.3	9.2	8.2	8.7	10.2	9.5	9.8	4.3	3.0	3.7
15	13.3	12.7	13.0	9.3	8.0	8.6	10.0	8.5	9.2	4.2	3.0	3.6
16	13.6	12.8	13.1	9.7	8.8	9.2	8.8	7.0	8.0	4.5	2.7	3.5
17	13.9	12.6	13.2	9.6	8.7	9.2	7.4	6.2	6.8	4.8	2.9	3.7
18	13.5	12.3	12.8	9.7	8.4	9.1	6.6	5.6	6.0	4.8	3.1	4.0
19	13.3	11.8	12.6	9.8	8.9	9.3	6.3	5.1	5.6	5.6	3.8	4.8
20	13.4	12.3	12.8	9.9	9.3	9.6	5.8	4.7	5.3	5.8	4.4	5.2
21	13.3	12.0	12.6	10.2	9.4	9.8	6.5	5.4	6.0	5.8	4.2	5.0
22	13.2	11.8	12.6	10.0	9.2	9.6	7.2	5.9	6.5	5.3	4.1	4.7
23	13.0	11.8	12.4	9.5	8.6	9.0	7.5	6.5	7.0	5.3	3.5	4.6
24	12.2	11.3	11.8	9.6	8.5	9.0	8.0	6.9	7.4	5.2	4.0	4.5
25	11.7	10.7	11.3	9.6	8.6	9.0	9.1	7.5	8.4	5.4	3.9	4.7
26	11.2	9.9	10.7	9.4	8.2	8.8	9.6	8.7	9.2	5.3	4.0	4.6
27	11.4	9.4	10.2	8.8	7.5	8.3	9.5	8.0	8.7	5.3	3.8	4.7
28	10.9	8.9	9.9	8.2	7.0	7.6	8.4	6.7	7.6	5.5	4.2	4.8
29	10.1	8.9	9.4	7.5	6.5	7.1	7.1	6.1	6.6	5.3	3.9	4.6
30	9.9	8.3	9.0	7.2	6.3	6.7	7.0	5.9	6.5	5.1	3.8	4.5
31	9.1	7.6	8.4	---	---	---	7.1	5.9	6.5	5.2	3.8	4.5
Month	17.6	7.6	13.1	13.1	6.3	9.3	10.2	4.7	7.1	8.6	2.7	5.5

14372300 ROGUE RIVER NEAR AGNESS, 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
	February			March			April			May		
1	5.4	3.9	4.8	7.4	6.0	6.6	11.6	9.9	10.9	15.4	14.0	14.7
2	5.2	4.1	4.6	7.9	6.3	7.2	11.7	10.2	10.9	14.8	12.5	13.3
3	5.5	4.1	4.8	8.2	6.9	7.6	11.7	9.9	10.9	12.7	11.0	11.6
4	5.8	4.3	5.1	8.8	7.5	8.2	12.3	10.0	11.3	12.4	10.4	11.4
5	6.2	4.9	5.6	9.2	8.2	8.7	13.2	11.3	12.3	12.7	9.9	11.3
6	7.2	5.6	6.4	9.3	8.2	8.8	13.9	12.2	13.1	13.6	10.6	12.1
7	7.6	6.4	7.0	9.3	8.3	8.8	14.8	13.2	14.0	15.4	12.0	13.6
8	8.1	6.9	7.5	9.0	7.8	8.4	14.6	13.5	14.0	16.5	14.1	15.4
9	8.2	7.0	7.6	8.9	7.9	8.3	14.1	13.2	13.7	17.3	15.3	16.3
10	8.3	7.2	7.9	9.1	8.2	8.6	13.9	12.5	13.2	17.0	15.2	16.3
11	8.6	7.5	8.1	10.0	8.5	9.2	13.3	12.0	12.6	16.6	15.0	15.9
12	9.0	7.8	8.3	10.4	9.3	9.9	12.6	11.3	12.1	16.1	14.3	15.0
13	8.9	7.5	8.3	10.9	9.6	10.3	12.8	11.0	11.9	15.2	13.2	14.3
14	8.9	7.8	8.3	10.8	9.6	10.2	12.3	11.2	11.7	16.1	13.8	15.0
15	8.7	7.7	8.3	10.4	8.9	9.8	12.1	10.3	11.5	16.6	14.5	15.6
16	9.2	8.1	8.7	10.3	8.9	9.6	11.8	10.3	11.1	17.1	15.2	16.2
17	10.1	8.5	9.2	10.8	9.0	10.1	11.6	10.0	10.8	17.4	15.5	16.5
18	9.9	8.8	9.2	11.7	10.0	10.8	11.3	9.9	10.7	17.6	16.1	16.7
19	9.3	8.2	8.7	11.6	9.9	10.7	10.8	9.5	10.2	17.2	15.9	16.6
20	8.7	7.8	8.2	11.0	9.5	10.2	11.1	8.6	9.9	16.1	15.4	15.7
21	8.4	7.0	7.6	10.3	8.8	9.7	11.1	9.4	10.2	16.8	14.6	15.4
22	7.6	5.8	6.7	10.3	8.8	9.5	11.4	9.5	10.5	15.7	13.7	14.8
23	6.6	5.4	5.9	10.9	8.5	9.9	12.0	9.8	11.0	16.6	13.9	15.1
24	7.2	5.7	6.5	11.7	9.3	10.6	13.4	10.9	12.0	17.8	14.5	16.2
25	7.3	6.0	6.7	12.8	10.6	11.4	14.4	11.8	13.1	18.4	15.7	17.1
26	7.2	5.9	6.4	11.6	10.4	11.0	14.5	12.0	13.2	20.0	16.5	18.0
27	6.8	5.5	6.3	10.6	8.6	9.4	14.9	12.3	13.6	19.4	17.4	18.3
28	7.0	5.7	6.3	9.7	7.7	8.7	15.7	12.9	14.3	18.8	16.4	17.7
29	---	---	---	10.3	7.8	8.9	16.4	14.0	15.2	18.7	15.9	17.3
30	---	---	---	10.7	8.2	9.6	16.0	14.4	15.2	18.5	15.4	17.2
31	---	---	---	11.4	9.2	10.3	---	---	---	19.4	16.5	18.0
Month	10.1	3.9	7.1	12.8	6.0	9.4	16.4	8.6	12.2	20.0	9.9	15.4

14372300 ROGUE RIVER NEAR AGNESS, 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	19.9	17.7	18.7	21.7	19.1	20.1	24.8	21.0	22.6	24.0	19.7	21.8
2	20.5	17.5	18.9	22.7	19.2	20.6	24.4	21.3	22.7	23.7	20.0	21.7
3	20.5	18.1	19.2	23.0	19.5	21.1	24.4	21.0	22.6	23.4	19.9	21.4
4	19.9	17.8	18.8	24.1	20.1	21.9	23.9	21.3	22.5	22.0	19.7	21.0
5	18.9	16.2	17.5	25.0	21.3	22.9	23.7	21.1	22.4	22.4	19.2	20.5
6	17.1	15.1	16.0	25.1	21.7	23.3	23.5	21.1	22.2	22.1	18.7	20.1
7	16.5	13.6	15.2	25.1	22.1	23.4	23.4	21.1	22.1	21.6	18.4	19.7
8	17.1	13.9	15.4	25.3	22.0	23.4	23.7	20.6	22.1	21.2	17.4	19.3
9	16.5	15.3	16.0	25.4	22.1	23.5	23.5	21.0	22.1	21.3	17.9	19.6
10	17.8	15.1	16.6	26.2	22.1	23.8	23.4	20.4	21.9	21.7	17.9	19.6
11	18.4	15.1	16.8	24.9	22.5	23.6	23.9	20.4	21.9	21.7	18.0	19.6
12	18.6	16.0	17.2	25.3	22.5	23.7	23.0	20.0	21.5	21.4	18.2	19.6
13	19.8	17.4	18.4	25.0	22.4	23.6	23.2	19.5	21.4	20.1	17.9	18.9
14	20.4	17.9	18.9	24.6	22.4	23.4	23.2	20.0	21.5	20.4	17.3	18.4
15	21.1	18.2	19.4	24.7	21.8	23.1	23.4	20.0	21.5	19.9	16.9	18.4
16	20.7	19.0	19.5	24.6	21.9	23.0	23.1	20.4	21.6	19.6	16.9	18.0
17	20.7	18.5	19.4	23.5	21.4	22.1	23.0	19.8	21.2	19.9	16.5	18.0
18	20.5	18.2	19.2	23.1	20.8	21.6	22.5	19.5	20.7	18.6	15.6	17.3
19	20.9	18.4	19.3	21.9	19.5	20.8	21.0	19.3	20.2	17.9	16.5	17.0
20	21.1	18.0	19.4	20.8	18.8	20.0	22.2	19.2	20.5	18.0	15.5	16.5
21	21.9	18.6	19.8	21.2	18.3	19.8	22.5	19.5	20.7	17.6	15.2	16.3
22	20.9	18.9	19.8	22.9	19.1	20.9	22.6	19.9	21.1	17.4	15.0	16.1
23	20.4	18.0	19.2	24.4	20.7	22.2	23.8	20.5	21.6	16.6	14.8	15.8
24	19.3	18.0	18.5	24.9	20.7	22.5	23.7	20.7	21.8	16.8	15.1	15.9
25	20.5	17.2	18.4	25.3	20.8	22.7	23.6	20.7	21.8	16.9	15.4	16.1
26	20.5	17.3	18.8	25.2	21.3	23.1	22.8	20.5	21.4	17.6	15.3	16.2
27	20.6	18.1	19.2	25.5	21.4	23.3	22.4	20.0	21.0	17.6	15.3	16.2
28	19.8	18.6	19.2	25.5	21.8	23.3	22.6	19.4	20.7	17.0	15.3	16.0
29	19.5	18.8	19.1	25.1	21.1	23.0	23.0	19.4	20.8	16.7	14.8	15.7
30	21.1	18.4	19.5	25.1	21.3	22.8	23.3	19.2	21.1	15.4	14.4	15.0
31	---	---	---	24.4	21.2	22.6	23.7	19.7	21.5	---	---	---
Month	21.9	13.6	18.4	26.2	18.3	22.4	24.8	19.2	21.6	24.0	14.4	18.2

	Max	Min	Mean
Year	26.2	2.7	13.3