

13340600 NORTH FORK CLEARWATER RIVER NEAR CANYON RANGER STATION, ID

Clearwater Basin
Upper North Fork Clearwater Subbasin

LOCATION.--Lat 46°50'26", long 115°37'16" referenced to North American Datum of 1983, in SE ¼ SE ¼ NE ¼ sec.6, T.40 N., R.7 E., Clearwater County, ID, Hydrologic Unit 17060307, Sheep Mountain quad., Clearwater National Forest, on left bank immediately upstream from forest road bridge, 0.1 mi upstream from Beaver Creek, 1.7 mi downstream from Canyon Ranger Station, and at mile 58.0.

DRAINAGE AREA.--1,296 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1967 to current year.

REVISED RECORDS.--WDR-US-2010: Drainage area.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 1,660.00 ft above NGVD of 1929.

REMARKS.--Records good except for estimated daily discharges, which are poor. Station equipment includes satellite telemetry. No regulation or diversion above station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 37,500 ft³/s Nov. 30, 1995, gage height, 17.58 ft, from rating curve extended above 29,500 ft³/s; minimum daily discharge, 170 ft³/s Dec. 9, 10, 2009.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 12,000 ft³/s and (or) maximum (*):

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
May 14	0430	*20,500	*13.98

Minimum daily discharge, 645 ft³/s, Sept. 16.

13340600 NORTH FORK CLEARWATER RIVER NEAR CANYON RANGER STATION, ID—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	685	1,750	4,390	1,450	1,940	1,490	4,730	7,090	6,620	2,990	1,110	742
2	682	2,000	6,780	1,350	1,910	1,730	5,650	6,540	6,540	2,810	1,420	725
3	673	1,790	6,980	1,060	1,840	2,420	6,380	6,520	6,640	2,660	1,300	726
4	672	1,640	5,230	e1,000	1,800	2,250	6,980	6,440	6,500	2,500	1,170	740
5	688	1,550	6,910	e1,400	1,780	1,980	8,430	6,990	6,460	2,380	1,110	756
6	697	1,430	6,080	e1,600	1,790	1,990	10,100	8,300	6,760	2,260	1,070	1,020
7	703	1,630	5,200	1,580	1,750	1,980	10,000	9,840	7,090	2,170	1,040	925
8	711	1,920	4,500	1,570	1,700	1,870	8,970	11,700	7,240	2,110	1,010	786
9	705	1,610	3,780	1,860	1,650	1,830	7,560	13,300	6,830	2,070	991	777
10	698	1,490	3,520	2,240	1,600	1,800	6,860	14,900	6,450	1,940	974	756
11	693	1,370	3,250	1,770	1,550	1,810	7,270	15,700	5,960	1,860	963	726
12	690	1,320	3,070	1,350	1,530	1,850	6,410	16,800	5,630	1,790	977	699
13	773	1,350	2,820	1,260	1,530	2,140	6,730	18,300	5,380	1,730	940	679
14	928	1,380	2,570	e1,450	1,550	2,460	6,080	18,700	4,980	1,670	919	668
15	1,090	1,410	2,500	1,590	1,490	2,890	5,580	15,100	4,570	1,620	892	654
16	1,870	1,350	2,410	1,530	1,500	3,440	5,120	12,700	4,320	1,570	868	645
17	1,530	1,340	2,380	1,320	1,650	3,660	4,740	11,200	4,190	1,540	863	663
18	932	1,590	2,240	1,340	1,560	3,370	4,500	10,500	4,110	1,490	858	884
19	840	1,640	2,090	1,360	1,530	3,050	4,450	9,600	4,310	1,440	833	1,080
20	1,190	2,780	2,010	e1,360	1,500	3,100	5,210	8,990	5,910	1,400	810	811
21	1,370	4,270	2,010	e1,350	1,440	3,520	5,340	8,960	4,780	1,360	797	727
22	951	3,480	1,980	1,350	1,480	3,190	5,170	9,580	4,130	1,330	787	702
23	951	2,670	1,950	1,370	1,510	2,920	4,880	8,600	3,800	1,290	817	818
24	890	2,700	1,900	1,820	1,410	2,710	4,690	7,940	3,730	1,270	834	981
25	863	2,650	1,820	1,890	1,390	2,580	4,890	7,350	4,200	1,230	790	1,170
26	856	2,220	1,770	2,140	1,400	2,570	5,350	6,930	4,360	1,200	835	1,100
27	880	1,930	1,750	2,020	1,310	2,570	6,120	6,860	4,120	1,180	808	903
28	1,530	1,870	1,720	1,830	1,370	2,730	7,490	6,920	3,630	1,150	780	986
29	4,880	2,050	1,630	1,740	---	3,030	8,850	7,040	3,390	1,140	839	1,800
30	4,140	3,340	1,570	1,700	---	3,500	8,100	7,580	3,200	1,120	797	2,440
31	2,210	---	1,570	1,750	---	4,010	---	7,120	---	1,100	767	---
Total	36,971	59,520	98,380	48,400	44,460	80,440	192,630	314,090	155,830	53,370	28,969	27,089
Mean	1,193	1,984	3,174	1,561	1,588	2,595	6,421	10,130	5,194	1,722	934	903
Max	4,880	4,270	6,980	2,240	1,940	4,010	10,100	18,700	7,240	2,990	1,420	2,440
Min	672	1,320	1,570	1,000	1,310	1,490	4,450	6,440	3,200	1,100	767	645
Ac-ft	73,330	118,100	195,100	96,000	88,190	159,600	382,100	623,000	309,100	105,900	57,460	53,730
Cfsm	0.92	1.53	2.45	1.20	1.23	2.00	4.95	7.82	4.01	1.33	0.72	0.70
In.	1.06	1.71	2.82	1.39	1.28	2.31	5.53	9.02	4.47	1.53	0.83	0.78

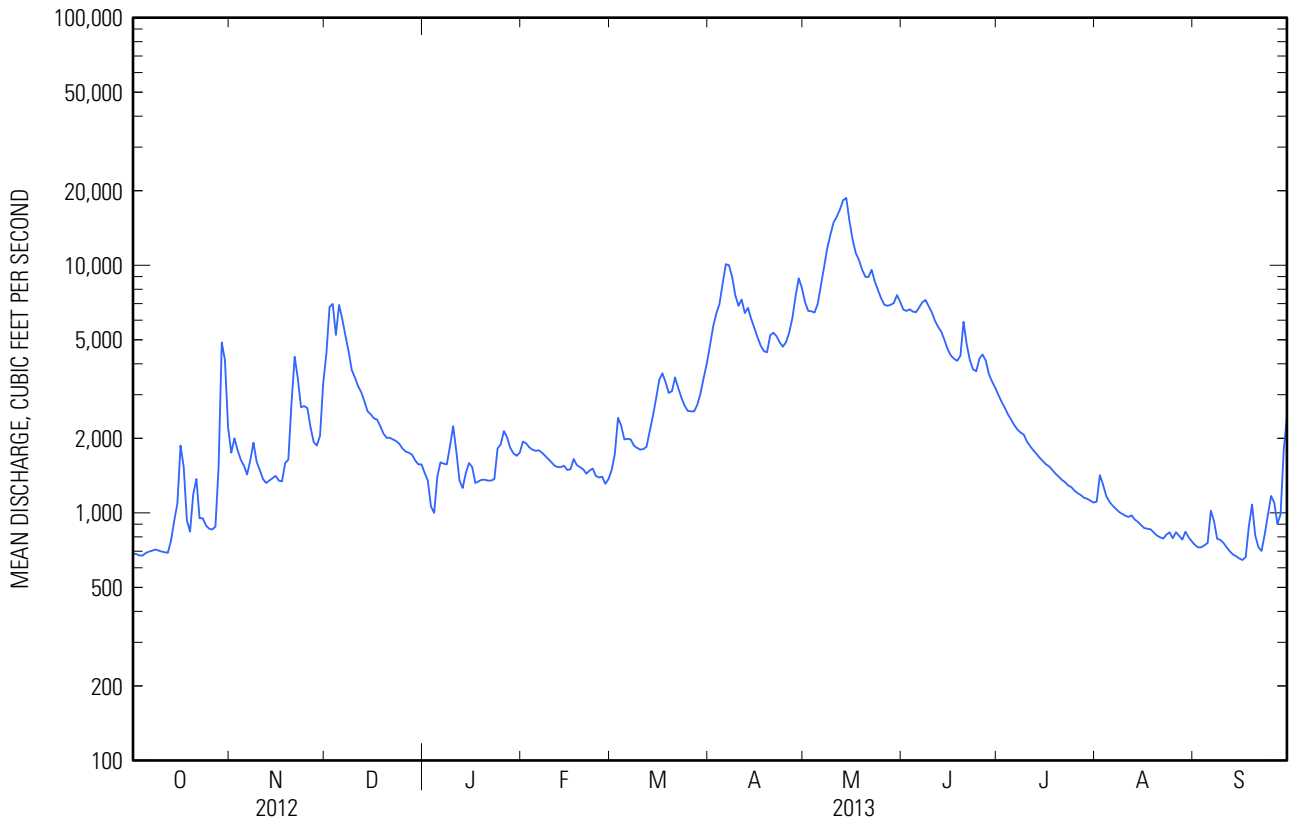
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1967 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,018	1,593	1,772	1,800	2,173	3,076	6,171	10,660	8,292	2,645	1,138	917
Max	2,346	6,581	8,582	5,106	8,133	7,429	10,760	20,670	20,630	6,683	1,713	1,675
(WY)	(1969)	(1996)	(1996)	(1974)	(1996)	(1986)	(2012)	(1997)	(1974)	(2011)	(1975)	(1968)
Min	551	609	668	665	722	1,247	2,445	5,955	2,367	1,151	698	551
(WY)	(1988)	(1988)	(2010)	(1979)	(1985)	(1977)	(2008)	(1973)	(1992)	(1977)	(1973)	(2001)

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SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1967 - 2013	
Annual total	1,501,081		1,140,149			
Annual mean	4,101		3,124		3,430	
Highest annual mean					5,657	1996
Lowest annual mean					1,830	1977
Highest daily mean	23,500	Apr 25	18,700	May 14	34,200	Nov 30, 1995
Lowest daily mean	672	Oct 4	645	Sep 16	170	Dec 9, 2009
Annual seven-day minimum	684	Sep 29	676	Sep 11	199	Dec 5, 2009
Annual runoff (ac-ft)	2,977,000		2,261,000		2,485,000	
Annual runoff (cfsm)	3.16		2.41		2.65	
Annual runoff (inches)	43.09		32.73		35.96	
10 percent exceeds	10,500		6,980		8,890	
50 percent exceeds	1,880		1,810		1,700	
90 percent exceeds	809		804		768	



13340600 NORTH FORK CLEARWATER RIVER NEAR CANYON RANGER STATION, ID—Continued**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1970 to 1983, October 1986 to current year.

PERIOD OF DAILY RECORD.--

WATER TEMPERATURE: February 1970 to September 1983, October 1986 to current year.

INSTRUMENTATION.--Temperature recording data logger.

EXTREMES FOR PERIOD OF RECORD.--

WATER TEMPERATURE: Maximum, 24.0 °C Aug. 8, 1983, July 24, 2007; minimum, 0.0 °C many days during winter months.

EXTREMES FOR CURRENT YEAR.--

WATER TEMPERATURE: Maximum, 21.0 °C Aug. 17; minimum, 1.0 °C many days during winter months.

**TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013**

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	October			November			December			January		
1	12.0	11.5	12.0	7.5	7.0	7.5	4.0	3.5	3.5	1.5	1.5	1.5
2	11.5	11.0	11.5	7.5	7.5	7.5	4.0	4.0	4.0	1.5	1.5	1.5
3	11.0	10.0	10.5	7.5	7.5	7.5	4.5	4.0	4.0	1.5	1.5	1.5
4	10.0	9.0	9.5	7.5	7.0	7.5	4.5	4.0	4.5	1.5	1.5	1.5
5	9.0	7.5	8.0	8.0	7.5	7.5	4.5	4.0	4.5	1.5	1.0	1.0
6	7.5	6.5	7.0	8.5	8.0	8.5	4.5	4.0	4.0	1.5	1.0	1.0
7	6.5	6.0	6.5	8.5	8.0	8.5	4.0	3.0	3.5	1.5	1.5	1.5
8	6.5	6.0	6.0	8.0	6.5	7.5	3.0	2.5	2.5	1.5	1.5	1.5
9	6.5	6.0	6.5	6.5	5.5	6.0	2.5	2.0	2.0	1.5	1.0	1.5
10	7.0	6.0	6.5	5.5	4.5	5.0	2.0	2.0	2.0	1.0	1.0	1.0
11	7.0	6.5	6.5	4.5	3.0	3.5	2.5	2.0	2.5	1.0	1.0	1.0
12	7.0	6.5	6.5	3.0	3.0	3.0	3.0	2.5	3.0	1.5	1.0	1.0
13	7.5	7.0	7.5	3.0	2.5	2.5	3.5	3.0	3.0	1.5	1.0	1.0
14	8.5	7.5	8.0	3.0	2.5	3.0	3.0	2.5	3.0	1.5	1.0	1.0
15	9.5	8.5	9.0	3.5	3.0	3.5	2.5	2.0	2.0	1.0	1.0	1.0
16	10.5	9.5	10.0	4.0	3.5	4.0	2.0	2.0	2.0	1.0	1.0	1.0
17	10.0	8.5	9.5	4.5	4.0	4.0	2.0	1.5	1.5	1.0	1.0	1.0
18	8.5	7.5	8.0	4.5	4.5	4.5	1.5	1.5	1.5	1.0	1.0	1.0
19	7.5	7.0	7.5	4.5	4.0	4.0	1.5	1.0	1.0	1.0	1.0	1.0
20	7.5	7.0	7.0	4.5	4.0	4.0	1.5	1.0	1.0	1.0	1.0	1.0
21	7.5	7.0	7.0	5.0	4.5	4.5	1.5	1.5	1.5	1.0	1.0	1.0
22	7.0	6.0	6.5	4.5	4.0	4.5	2.0	1.5	2.0	1.0	1.0	1.0
23	6.0	5.0	5.5	4.0	3.5	3.5	2.5	2.0	2.0	1.0	1.0	1.0
24	5.0	5.0	5.0	3.5	3.5	3.5	2.5	2.0	2.0	1.0	0.5	1.0
25	5.0	5.0	5.0	3.5	3.5	3.5	2.0	2.0	2.0	1.0	0.5	1.0
26	5.0	5.0	5.0	3.5	3.0	3.5	2.0	2.0	2.0	1.0	1.0	1.0
27	5.0	4.5	5.0	3.0	2.0	2.5	2.0	2.0	2.0	1.5	1.0	1.0
28	4.5	4.5	4.5	2.0	1.5	1.5	2.0	2.0	2.0	1.5	1.0	1.5
29	6.0	4.5	5.5	2.5	1.5	2.0	2.5	2.0	2.0	1.5	1.0	1.0
30	7.0	6.0	6.5	3.5	2.5	3.0	2.0	2.0	2.0	1.5	1.0	1.5
31	7.0	6.5	7.0	---	---	---	2.0	1.5	1.5	1.5	1.5	1.5
Month	12.0	4.5	7.3	8.5	1.5	4.7	4.5	1.0	2.5	1.5	0.5	1.2

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	February			March			April			May		
1	1.5	1.5	1.5	3.0	2.5	2.5	5.5	5.0	5.0	5.5	5.0	5.0
2	2.0	1.5	1.5	3.5	3.0	3.0	5.5	5.0	5.5	6.5	5.5	6.0
3	2.0	1.5	2.0	3.5	3.5	3.5	5.5	5.0	5.5	7.0	6.5	6.5
4	2.5	2.0	2.0	3.5	3.0	3.0	5.5	5.0	5.5	7.0	6.5	6.5
5	2.5	2.5	2.5	3.0	2.5	2.5	5.5	5.0	5.0	8.0	7.0	7.5
6	3.0	2.5	2.5	3.0	2.5	2.5	5.5	5.0	5.0	8.0	8.0	8.0
7	3.0	2.5	2.5	3.5	3.0	3.0	5.0	5.0	5.0	8.5	7.5	8.0
8	3.0	2.5	3.0	3.5	3.0	3.5	5.0	5.0	5.0	8.5	7.5	8.0
9	3.0	2.5	2.5	3.5	3.0	3.5	5.0	4.5	4.5	8.5	7.5	8.0
10	2.5	2.5	2.5	3.5	3.0	3.0	5.0	5.0	5.0	8.5	7.0	8.0
11	2.5	2.5	2.5	4.0	3.5	3.5	5.0	5.0	5.0	9.0	7.0	8.0
12	2.5	2.5	2.5	4.0	3.5	4.0	5.5	5.0	5.0	9.5	7.0	8.5
13	3.0	2.5	2.5	4.5	3.5	4.0	5.5	4.5	5.0	9.5	7.5	8.5
14	3.0	2.5	3.0	4.5	4.0	4.5	4.5	4.0	4.5	9.0	6.5	7.5
15	3.0	3.0	3.0	4.5	4.5	4.5	5.0	4.5	4.5	8.5	6.0	7.0
16	3.5	3.0	3.0	4.5	4.5	4.5	4.5	4.0	4.5	8.0	7.0	7.5
17	3.5	3.0	3.0	4.5	3.5	4.0	4.5	3.5	4.0	7.5	7.0	7.0
18	3.0	3.0	3.0	3.5	3.0	3.0	4.5	4.0	4.5	7.5	7.0	7.5
19	3.0	3.0	3.0	3.5	3.0	3.0	5.0	4.5	4.5	7.5	7.5	7.5
20	3.0	3.0	3.0	4.0	3.5	3.5	5.5	5.0	5.0	9.5	7.5	8.0
21	3.0	2.5	3.0	4.0	3.5	3.5	6.0	5.5	5.5	9.5	8.5	9.0
22	2.5	2.5	2.5	3.5	3.0	3.0	6.0	5.5	5.5	9.0	7.0	8.5
23	2.5	2.0	2.5	3.0	3.0	3.0	5.5	5.0	5.5	8.5	6.5	7.5
24	2.5	2.5	2.5	3.0	2.5	3.0	6.0	5.0	5.5	9.0	7.0	8.0
25	2.5	2.0	2.5	3.0	2.5	3.0	7.0	6.0	6.5	8.5	7.0	7.5
26	2.0	2.0	2.0	4.0	3.0	3.5	7.5	7.0	7.0	8.5	8.0	8.5
27	2.5	2.0	2.0	4.5	3.5	4.0	7.5	7.0	7.0	9.5	8.5	9.0
28	2.5	2.0	2.5	5.0	4.5	4.5	7.0	7.0	7.0	9.5	9.0	9.5
29	---	---	---	5.0	5.0	5.0	7.0	6.0	6.5	9.5	9.0	9.5
30	---	---	---	5.5	5.0	5.0	6.0	5.0	5.5	9.5	9.0	9.0
31	---	---	---	5.5	5.0	5.5	---	---	---	9.5	9.0	9.0
Month	3.5	1.5	2.5	5.5	2.5	3.6	7.5	3.5	5.3	9.5	5.0	7.9

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TEMPERATURE, WATER, DEGREES CELSIUS
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013

Day	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean	Max	Min	Mean
	June			July			August			September		
1	9.0	8.5	9.0	19.0	18.0	18.5	19.5	18.0	18.5	19.0	18.5	18.5
2	10.0	9.0	9.5	19.5	18.5	19.0	18.5	17.0	17.5	19.0	18.5	18.5
3	10.0	9.5	9.5	20.5	19.0	19.5	17.5	16.5	17.0	19.0	18.5	18.5
4	10.5	10.0	10.0	20.0	19.5	19.5	18.5	16.5	17.0	18.5	18.0	18.0
5	11.5	10.5	11.0	19.5	18.5	19.0	19.0	17.5	18.0	18.5	18.5	18.5
6	12.0	11.0	12.0	19.0	18.0	18.5	19.5	18.5	19.0	19.0	18.5	18.5
7	12.5	12.0	12.0	19.5	18.0	18.5	20.0	18.5	19.0	19.0	18.0	18.5
8	12.0	12.0	12.0	19.5	18.0	18.5	20.0	19.0	19.5	18.5	17.5	18.0
9	12.0	12.0	12.0	19.5	18.0	18.5	20.0	19.5	19.5	18.0	17.5	17.5
10	12.0	11.5	12.0	19.5	18.0	18.5	20.0	19.5	20.0	17.5	17.0	17.5
11	12.5	11.5	12.0	19.5	18.5	19.0	20.5	20.0	20.0	18.0	17.0	17.5
12	12.5	11.5	12.0	19.0	18.0	18.5	20.5	20.0	20.0	18.0	17.0	17.5
13	12.5	11.5	12.0	19.0	17.5	18.5	20.5	20.0	20.0	18.0	17.5	17.5
14	11.5	10.5	11.0	19.0	17.5	18.0	20.5	20.0	20.5	18.5	17.5	18.0
15	11.5	10.0	10.5	19.0	17.0	18.0	20.5	20.0	20.5	18.5	18.0	18.0
16	13.5	11.5	12.5	19.0	17.5	18.5	20.5	20.5	20.5	18.5	18.0	18.0
17	14.5	13.0	13.5	20.5	18.0	19.0	21.0	20.5	21.0	18.0	17.0	17.5
18	15.5	14.5	14.5	21.0	19.0	20.0	21.0	20.5	20.5	17.0	15.5	16.5
19	15.0	13.0	14.5	21.0	19.0	20.0	20.5	20.0	20.5	15.5	14.0	14.5
20	13.0	10.5	11.5	20.5	19.0	20.0	20.0	19.5	20.0	14.5	13.5	14.0
21	11.5	10.5	11.0	20.5	19.0	19.5	19.5	19.0	19.5	14.0	13.5	13.5
22	12.5	11.5	12.0	20.5	19.0	19.5	19.0	18.5	18.5	14.0	13.5	13.5
23	13.0	12.0	12.5	20.5	19.0	19.5	19.0	18.5	18.5	13.5	13.0	13.0
24	13.5	12.5	13.0	20.5	19.0	20.0	19.5	18.5	19.0	13.0	12.5	12.5
25	13.5	13.0	13.0	20.5	19.0	20.0	19.5	19.0	19.5	12.5	12.0	12.0
26	13.5	13.0	13.0	20.5	19.0	20.0	19.5	19.0	19.5	12.0	11.0	11.5
27	14.5	13.0	13.5	20.5	19.0	20.0	19.5	19.0	19.0	11.0	10.5	10.5
28	17.0	14.5	15.5	20.5	18.5	19.5	19.5	19.0	19.0	10.5	10.0	10.5
29	17.0	16.5	16.5	20.0	18.5	19.0	19.0	19.0	19.0	10.5	10.0	10.0
30	18.0	16.5	17.5	19.5	18.5	19.0	19.0	18.5	19.0	10.0	9.5	9.5
31	---	---	---	19.5	18.5	19.0	19.0	18.5	18.5	---	---	---
Month	18.0	8.5	12.3	21.0	17.0	19.1	21.0	16.5	19.3	19.0	9.5	15.6

	Max	Min	Mean
Year	21.0	0.5	8.5