

## रायपुर का माह अप्रैल का जलवायु लक्षण

इस माह में तापमान दिन निरंतर बढ़ते जाता है तथा हवा का दबाव कम होते जाता है । इस माह में तापमान दिन प्रतिदिन बढ़ता है तथा माह के शुरुवात में 38.0 डिग्री सेल्सियस का अधिकतम तापमान , महीने के अंत तक 41.0 डिग्री सेल्सियस या उससे अधिक पहुंच जाता है । कभी कभी 45.0 डिग्री सेल्सियस से अधिक भी हो जाता है । इस माह में औसत आर्द्रता लगभग 39 से 24 प्रतिशत के बीच होती है । कभी कभी वातावरण धूमिलसा होता है । इस माह में अधिकतम और न्यूनतम तापमान का अंतर बहुत ज्यादा होता है । औसत न्यूनतम तापमान 23 डिग्री सेल्सियस से 26 डिग्री सेल्सियस के बीच रहता है ।

उत्तरी भारत से होकर जानेवाले शीतकालीन विक्षोभों के प्रभावसे कभी - कभी आकाश बादलोसे आच्छादित हो जाता है । तथा गर्जन एवम वर्षा होने की भी संभावना रहती हे कभी कभी ओलावृष्टी के साथ मेघगर्जना भी होती है। इस माह में गर्जन होनेवाले दिनों की औसत संख्या 2.6 है । इस माह में औसत वर्षा 15.1 मि मि है तथा वर्षा के दिनों की संख्या 1.5 है ।

उपल्बध अभिलेख के आधार पर रायपुर का इस माह सबसे अधिकतम तापमान 46.1 डिग्री सेल्सियस 30 अप्रैल 1942 में, न्यूनतम तापमान 2 अप्रैल 1905 को 15.0 डिग्री सेल्सियस रिकार्ड किया गया, सन 1909 में सर्वाधिक कुल मासिक वर्षा 131.1 मि.मी. और 20 अप्रैल 2011 में 24 घंटे में 45.2 मि.मी. है ।

इस माह में पिछले दस वर्ष में अभिलेखित औसत अधिकतम तापमान , निम्नतम न्यूनतम तापमान और उसकी दिनांक दी गई है ।

वर्ष	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
अधिकतम तापमान, डी. से.	43.1	45.0	44.2	40.0	42.1	42.3	42.7	42.0	44.0	44.2
दिनांक	30	30	19	03	19	29,30	28	21	22	20
निम्नतम न्यूनतम तापमान, डी. से.	18.4	20.0	23.6	17.5	22.1	18.5	19.9	18.8	22.7	22.8
दिनांक	05	09	02,30	10	07	22	18	15	30	11

## CLIMATIC FEATURES OF RAIPUR DURING APRIL

### Daily Temperature

Based on past data the following are the general climatic features during the month of April for Raipur. April is the month of continuous rise in day temperatures with fall of pressure. Generally winds are dry and from westerly to northwesterly direction, becoming moderate to strong on few days during afternoon hours. This results in the human discomfort. When the western disturbances moves across north India, moist air from sea is drawn into the interior giving rise to thunderstorm mostly during the afternoon or evening. These summer thunderstorms are accompanied with strong winds or squalls and hails on few occasions. The Daily Normal temperatures (Maximum and Minimum) and Rainfall for the season are given in the fig- 1 below

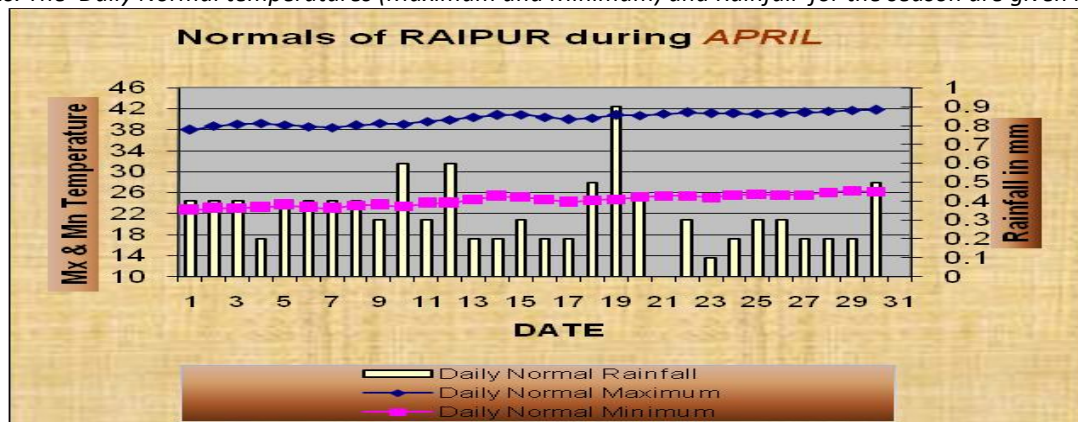


FIG-1

### Extreme Temperature

Mean maximum temperature of Raipur is **38.0° C** during first week of April rising to around **41.0° C** towards the last week of the month, on few occasions it exceeds **45.0° C**. The mean minimum temperature varies between **23.0° C** to **26.0° C**. On the basis of available records Raipur experiences following extreme values :

1. The highest maximum temperature of 46.1°C on 30<sup>th</sup> April 1942,
2. The lowest minimum temperature 15.0°C on 2<sup>nd</sup> April 1905

During last decade the highest maximum and lowest minimum temperature with date are given in the following table:-

YEAR	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
<b>Highest Maximum Temp. in °C .</b>	<b>43.1</b>	<b>45.0</b>	<b>44.2</b>	<b>40.0</b>	<b>42.1</b>	<b>42.3</b>	<b>42.7</b>	<b>42.0</b>	<b>44.0</b>	<b>44.2</b>
<b>Recorded Date of march</b>	<b>30</b>	<b>30</b>	<b>19</b>	<b>03</b>	<b>19</b>	<b>29,30</b>	<b>28</b>	<b>21</b>	<b>22</b>	<b>20</b>
<b>Lowest Minimum temp. in Deg °C.</b>	<b>18.4</b>	<b>20.0</b>	<b>23.6</b>	<b>17.5</b>	<b>22.1</b>	<b>18.5</b>	<b>19.9</b>	<b>18.8</b>	<b>22.7</b>	<b>22.8</b>
<b>Recorded Date</b>	<b>05</b>	<b>09</b>	<b>02,30</b>	<b>10</b>	<b>07</b>	<b>22</b>	<b>18</b>	<b>15</b>	<b>30</b>	<b>11</b>

### Rainfall

The average rainfall of this month is **15.1 mm** the average number of rainy days is **1.5** and average number of days of thunderstorm is **2.6**.

3. The highest monthly rainfall of 131.1 mm in the year 1909 and
4. The heaviest fall in the 24 hours of 45.2 mm on 20<sup>th</sup> April 2011.

### WEATHER PHENOMENON

The average number of days with different weather phenomenon are given below table.

<b>Rainy Days</b>	<b>Drizzle/Rain (&gt;0.3mm)</b>	<b>Hail</b>	<b>Thunder Storm</b>	<b>Squall</b>	<b>Dust Storm</b>	<b>Gale</b>	<b>Fog</b>
1.5	3.0	0.1	2.6	0.3	0.0	0.0	0.1

## CLIMATIC FEATURES OF RAIPUR DURING APRIL

Based on past data the following are the general climatic features during the month of April for Raipur. April is the month of continuous rise in day temperatures with fall of pressure. Generally winds are dry and form westerly to northwesterly direction, becoming moderate to strong on few days during afternoon hours. This results in the human discomfort. When the western disturbances moves across north India, moist air from sea is drawn into the interior giving rise to thunderstorm mostly during the afternoon or evening. These summer thunderstorms are accompanied with strong winds or squalls and hails on few occasions.

Mean maximum temperature of Raipur is **38.0° C** during first week of April rising to around **41.0° C** towards the last week of the month, on few occasions it exceeds **45.0° C**. The average rainfall of this month is **15.1 mm** the average number of rainy days is **1.5** and average number of days of thunderstorm is **2.6**. The relative humidity for Bhopal varies between **39 %** to **24%**. The mean minimum temperature varies between **23.0° C** to **26.0° C**.

**On the basis of the available records in this month Raipur experiences the following values:**

5. The highest maximum temperature of 46.1°C on 30<sup>th</sup> April 1942,
6. The lowest minimum temperature 15.0°C on 2<sup>nd</sup> April 1905
7. The highest monthly rainfall of 131.1 mm in the year 1909 and
8. The heaviest fall in the 24 hours of 45.2 mm on 20<sup>th</sup> April 2011.

The highest maximum and lowest minimum temperature in Degree Celsius with dates are given in the following table.

YEAR	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017
Highest Maximum Temp. in °C.	<b>43.1</b>	<b>45.0</b>	<b>44.2</b>	<b>40.0</b>	<b>42.1</b>	<b>42.3</b>	<b>42.7</b>	<b>42.0</b>	<b>44.0</b>	<b>44.2</b>
Recorded Date of march	<b>30</b>	<b>30</b>	<b>19</b>	<b>03</b>	<b>19</b>	<b>29,30</b>	<b>28</b>	<b>21</b>	<b>22</b>	<b>20</b>
Lowest Minimum temp. in Deg °C.	<b>18.4</b>	<b>20.0</b>	<b>23.6</b>	<b>17.5</b>	<b>22.1</b>	<b>18.5</b>	<b>19.9</b>	<b>18.8</b>	<b>22.7</b>	<b>22.8</b>
Recorded Date	<b>05</b>	<b>09</b>	<b>02,30</b>	<b>10</b>	<b>07</b>	<b>22</b>	<b>18</b>	<b>15</b>	<b>30</b>	<b>11</b>

EXTREME WEATHER EVENTS DURING PAST 10 YEARS IN THE MONTH OF **APRIL** IN RESPECT OF THE STATIONS

**Chattisgarh: Raipur, Jagdalpur, Ambikapur, Durg, Bilaspur, Pendra**

Raipur		April		DNA- Data Not Available	
EXTREME WEATHER EVENTS FOR THE MONTH					
Year	Temperature(oC)		Rainfall (mm)		
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)	
2017	44.2(20)	22.8(11)	0.0	0.0	
2016	44(22)	22.7(30)	12.8(30)	15.2	
2015	42(21)	18.8(15)	6.6(16)	20.3	
2014	42.7(28)	19.9(18)	17.5(18)	23.9	
2013	42.3(29,30)	18.5(22)	12.3(21)	30.5	
2012	42.1(19)	22.1(7)	7.4(23)	22.0	
2011	40(3)	17.5(10)	45.2(20)	118.4	
2010	44.2(19)	23.6(02,30)	9.1(30)	9.1	
2009	45(30)	20(9)	8.5(9)	8.5	
2008	43.1(30)	18.4(5)	7.4(5)	7.4	
ALL TIME RECORD	46.1(30.04.1942)	15(02.04.1905)	45.2(20.04.2011)	131.1 (1909)	

Bilaspur		April		DNA- Data Not Available	
EXTREME WEATHER EVENTS FOR THE MONTH					
Year	Temperature(oC)		Rainfall (mm)		
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)	
2017	45.0(22)	19.4(12)	0.3(22)	0.3	
2016	44.7(17)	21.4(25)	15.7(18)	20.3	
2015	43(22)	18(15)	23.2(16)	63.3	
2014	43.1(28)	20(15)	13.4(15)	14.9	
2013	43.3(30)	18.3(22)	12.6(14)	25.5	
2012	42.6(19)	21.6(8)	8.1(15)	12.5	
2011	40(3)	16.4(7)	32(14)	93.1	
2010	45.8(19)	20.4(1)	0.2(30)	0.2	
2009	45(30)	18.4(9)	16.3(9)	16.5	
2008	DNA(DNA)	DNA(DNA)	DNA(DNA)	DNA	
ALL TIME RECORD	45.8(19.04.2010)	16.4(07.04.2011)	32(14.04.2011)	93.1 (2011)	

Pendra		April		DNA- Data Not Available	
EXTREME WEATHER EVENTS FOR THE MONTH					
Year	Temperature(oC)		Rainfall (mm)		
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)	
2017	42.0(22)	19.1(11)	0.0	0.0	
2016	42(17,18,20,21)	19.9(2)	1.4(9)	1.4	
2015	40.5(20)	16.5(26)	22.9(9)	34.7	
2014	38.8(27,28,30)	18(19)	40.6(20)	98.1	
2013	39.6(14)	14.8(21)	25(22)	74.6	
2012	40.1(21)	20(06,13)	14.4(8)	24.2	
2011	37.7(19)	13.1(6)	35.3(21)	73.3	
2010	43.2(19)	19(30)	16.8(30)	16.8	
2009	43.1(30)	14(9)	12.4(9)	12.6	
2008	41.5(30)	15(7)	10(5)	12.3	
ALL TIME RECORD	43.2(27.04.1999 & 19.04.2010)	12.4(02.04.1961)	67.8(02.04.1926)	146.1 (1926)	

Jagdajpur		April		DNA- Data Not Available	
EXTREME WEATHER EVENTS FOR THE MONTH					
Year	Temperature(oC)		Rainfall (mm)		
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)	
2017	41.6(18)	18.0(12)	11.6(21)	13.4	
2016	41.9(24)	21.1(10)	35.1(27)	39.3	
2015	38.1(20)	16.9(14)	31.4(27)	77.5	
2014	39.8(27)	18.2(14)	15.6(30)	57.8	
2013	39.4(9)	16.8(21)	26.5(20)	99.4	
2012	40.1(21)	17.1(6)	64(27)	125.8	
2011	37.4(02,18)	18.5(23)	19.1(20)	62.5	
2010	40.6(23)	18.9(26)	52(26)	72.4	
2009	41.2(30)	20(2)	5.6(8)	5.6	
2008	40.6(23)	17.6(6)	13.6(8)	17.7	
ALL TIME RECORD	43.3(30.04.1941)	13.9(03.04.1943)	73.8(16.04.2006)	142.4 (1968)	

Ambikapur		April		DNA- Data Not Available	
EXTREME WEATHER EVENTS FOR THE MONTH					
Year	Temperature(oC)		Rainfall (mm)		
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)	
2017	41.3(24)	18.2(11)	0.0	0.0	
2016	42.4(20,21)	19.3(1)	1.4(8)	2.1	
2015	39.8(22)	16(26)	34.7(26)	101.0	
2014	40.7(28)	18.3(15)	3(19)	6.3	
2013	39.6(30)	15.6(22)	22.5(15)	42.3	
2012	39.6(21)	18.3(13)	10.1(13)	17.3	
2011	38.3(18)	15.5(6)	10.8(20)	34.6	
2010	43.4(19)	21(6)	0()	0.0	
2009	43.7(30)	18(12)	0.8(9)	0.8	
2008	41.5(30)	12.7(5)	8.9(5)	28.3	
ALL TIME RECORD	43.8(28.04.1999)	10.6(01.04.1968)	55(30.04.1990)	101.0 (2015)	

Durg		April		DNA- Data Not Available	
EXTREME WEATHER EVENTS FOR THE MONTH					
Year	Temperature(oC)		Rainfall (mm)		
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)	
2017	43.4(25)	17.4(13)	0.0	0.0	
2016	44.4(26)	20.4(3)	1.8(30)	1.8	
2015	41.2(22)	19(15)	20.2(27)	47.2	
2014	41.6(27)	19.4(03,15)	6.4(16)	11.0	
2013	42.4(30)	19.4(21)	7.4(14)	17.8	
2012	41.5(21)	20(6)	14.8(7)	27.0	
2011	38.6(3)	16.6(8)	20.8(15)	51.8	
2010	43.3(14)	20(2)	0()	0.0	
2009	DNA(DNA)	DNA(DNA)	DNA(DNA)	DNA	
2008	DNA(DNA)	DNA(DNA)	DNA(DNA)	DNA	
ALL TIME RECORD	45.3(28.04.1973)	16.6(08.04.2011)	90(22.04.1978)	94.0(1978)	