

## रायपूर का माह दिसम्बर का जलवायु लक्षण

रायपूर के लिए दिसम्बर का महीना वर्ष का अधिकतम ठंडक तथा शुष्क महीना है। रायपूर का औसत न्यूनतम तापमान 12.6 डि.से. है। आकाश सामान्यतः बादलरहित होने की वजह से दिन अपेक्षाकृत गर्म किन्तु आरामदायक होते हैं। इस माह में दिन का औसत तापमान 27.9 डि.से. और रात्रि का औसत तापमान 9.0 से 13 डिसे. के बीच रहता है।

पश्चिम विक्षोभों कम दबाव का क्षेत्र जो देश के उत्तरी प्रांतों में पश्चिम से पूर्व की ओर बढ़ते हैं तथा जिनसे उत्तरी भाग शीतकालीन वर्षा से प्रभावित होता है, आनेवाली शुष्क ठण्डी हवाएं देश के मध्यवर्ती एवं उत्तरीय भाग में शीतलहर की स्थिति पैदा करती हैं। कभी-कभी बंगाल की खाड़ी में बननेवाली चक्रवाती तूफान की वजह से उत्तर से ठंडी हवाएं देश के मध्यभाग में आ जाती हैं। बहुत ही कम अवसरों पर रायपूर शीतलहर से प्रभावित हुआ है।

उपल्बध अभिलेख के आधार पर रायपूर में अधिकतम उच्चतम तापमान 02 दिसम्बर 2015 को 34.1 डि. से. रिकार्ड किया गया, 29 दिसम्बर 1902 को निम्नतम न्यूनतम तापमान 3.9 डि.से., सन 2010 में अधिकतम कुल मासिक वर्षा 73.0 मि.मी. और 09 दिसम्बर 2010 में 24 घंटों में 64.1 मि.मी. है।

इस माह में पिछले दस वर्षों में अभिलेखित निम्नतम न्यूनतम तापमान और उसकी दिनांक दी गई है।

वर्ष	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
निम्नतम न्यूनतम तापमान डि.से	11.1	12.5	10.8	11.5	09.5	9.7	9.9	11.9	9.2	10.7	11.0
दिनांक	19	24	27	23	21	22	24	13	29	27	19

## **CLIMATIC FEATURES OF RAIPUR DURING DECEMBER**

December is the coldest and driest month of the year for Raipur. The mean minimum temperature is 12.6 deg.cel. Sky is generally clear. Days are comparatively warm but comfortable. The mean maximum temperature is 27.9 deg.cel. Surface winds are generally light and usually from Northerly or Northeasterly direction. The night temperature most commonly ranges from 09.0 deg.cel .to 13.0 deg.cel.

Associated with Western Disturbances i.e.the low pressure system which moves from West to East across the Northern parts of the country and causes winter rain. The dry and cold winds from Central Asia set in leading to cold wave conditions in the central parts of the country. Sometimes cold winds from North are also drawn over the area in association with cyclonic storm moving over the southern parts of Bay of Bengal. Raipur however is affected by moderate cold wave condition on few occasions.

### **On the basis of the available records,Raipur experiences following exteme values**

1. The highest maximum temperature 34.1 deg. cel 02<sup>nd</sup> December 2015 .
2. The lowest minimum temperature 03.9 deg. cel. on 29th December 1902.
3. The highest total monthly rainfall of 73.0 mms in the year 2010.
4. The heaviest fall in the 24 hours was 64.1 mms on 09<sup>th</sup> December 2010.

The lowest minimum temperature in degree Celsius with date during last decade are indicated in the following table.

<b>YEAR</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
<b>Lowest min Temp in °c</b>	11.1	12.5	10.8	11.5	09.5	9.7	9.9	11.9	9.2	10.7	11.0
<b>Recorded date</b>	19	24	27	23	21	22	24	13	29	27	19

## CLIMATIC FEATURES OF RAIPUR DURING DECEMBER

### Daily Temperature

The following are general climatic features during the month of **December** for **Raipur** based on past data December is the coldest and driest month of the year for Raipur. The mean minimum temperature is 12.6 deg.cel. Sky is generally clear. Days are comparatively warm but comfortable. The mean maximum temperature is 27.9 deg.cel. Surface winds are generally light and usually from Northerly or Northeasterly direction. The night temperature most commonly ranges from 09.0 deg.cel .to 13.0 deg.cel. The Daily Normal temperatures (Maximum and Minimum) and Rainfall for the season are given in the fig- 1 below

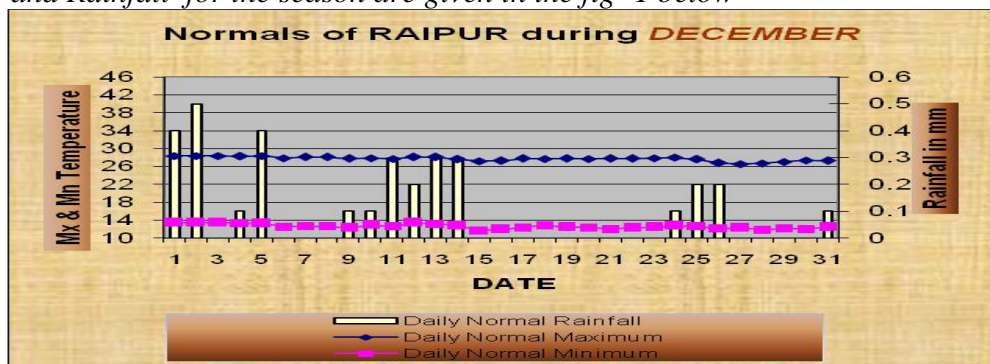


FIG-1

### Extreme Temperature

On the basis of available records Raipur experiences following extreme values :

1. The highest maximum temperature 34.1 deg. cel 02nd December 2015.
2. The lowest minimum temperature 03.9 deg. cel. on 29th December 1902.

### Rainfall

3. The highest total monthly rainfall of 73.0 mms in the year 2010.
4. The heaviest fall in the 24 hours was 64.1 mms on 09<sup>th</sup> December 2010.

The lowest minimum temperature in degree Celsius with date during last decade are indicated in the following table.

### WEATHER PHENOMENON

YEAR	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
Lowest min Temp in °c	11.1	12.5	10.8	11.5	09.5	9.7	9.9	11.9	9.2	10.7	11.0
Recorded date	19	24	27	23	21	22	24	13	29	27	19

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

Rainy Days	Drizzle/Rain (>0.3mm)	Hail	Thunder Storm	Squall	Dust Storm	Gale	Fog
0.6	0.9	0.0	0.1	0.0	0.0	0.0	0.2

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

Raipur		December		
EXTREME WEATHER EVENTS FOR THE MONTH				
Year	Temperature(oC)		Rainfall (mm)	
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)
2016	31.3(1)	11(19)	0()	0.0
2015	34.1(2)	10.7(27)	8.8(22)	9.5
2014	32.2(1)	9.2(29)	0()	0.0
2013	31.5(1)	11.9(13)	0()	0.0
2012	32.9(9)	9.9(24)	0.3(12)	0.3
2011	31(5,6,11)	9.7(22)	0()	0.0
2010	31.2(1)	9.5(21)	64.1(9)	73.0
2009	30.7(10)	11.5(23)	18(19)	19.6
2008	32.4(22)	10.8(27)	0()	0.0
2007	31.1(23)	12.5(24)	0()	0.0
ALL TIME RECORD	34.1(02.12.2015)	3.9(29.12.1902)	64.1(09.12.2010)	073.0 (2010)

Bilaspur		December		
EXTREME WEATHER EVENTS FOR THE MONTH				
Year	Temperature(oC)		Rainfall (mm)	
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)
2016	30.4(13)	8.2(18)	0()	0.0
2015	33.1(2)	7.8(26)	0.8(23)	1.0
2014	31.8(1)	7.3(27)	11(31)	11.4
2013	31.9(1)	8.6(13)	0()	0.0
2012	33.6(9)	7.7(28)	11.3(12)	12.1
2011	31.6(6)	7.7(22)	0()	0.0
2010	31.4(1)	6.6(21,22)	18.6(9)	23.9
2009	30.5(12)	8.2(23,24)	1.6(19)	1.6
2008	32.3(22)	7.3(27)	0()	–
2007	DNA(DNA)	DNA(DNA)	DNA(DNA)	DNA
ALL TIME RECORD	33.6(09.12.2012)	6.6(21.12.2010 & 22.12.2010)	18.6(09.12.2010)	23.9 (2010)

Pendra		December		
EXTREME WEATHER EVENTS FOR THE MONTH				
Year	Temperature(oC)		Rainfall (mm)	
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)
2016	29(1)	6.4(20)	0()	0.0
2015	31.5(2)	4(26)	0.2(18)	0.2
2014	29.4(1)	4.5(28)	15.2(15)	17.7
2013	27.8(2)	9(7)	0()	0.0
2012	29.7(6)	5.4(7)	2(12)	2.2
2011	30.9(9)	7.5(26)	0()	0.0
2010	27.2(2)	6(20)	14.7(8)	28.7
2009	28.4(17)	7.5(22)	3.6(19)	4.2
2008	30.6(21)	6.2(25)	0()	0.0
2007	28(23)	5.7(18)	0()	0.0
ALL TIME RECORD	31.5(02.12.2015)	3.9(31.12.1936)	81.2(11.12.1967)	107.6 (1967)

Jagdapur		December		
EXTREME WEATHER EVENTS FOR THE MONTH				
Year	Temperature(oC)		Rainfall (mm)	
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)
2016	30.6(14)	7.2(19,23,24)	0()	0.0
2015	32.8(14)	7.5(27)	12(17)	16.6
2014	30.1(11,16)	6(22)	0()	0.0
2013	31.2(1)	7(14)	0()	0.0
2012	32.1(09,10)	7(28)	0()	0.0
2011	31(8)	6(26)	0.2(29)	0.2
2010	29.1(1)	6.6(22)	15(8)	24.6
2009	30.1(9,15,16)	8(25,26)	0()	0.0
2008	32.1(13)	8.4(28)	0()	0.0
2007	31.5(22)	9.3(24)	0()	0.0
ALL TIME RECORD	32.8(14.12.2015)	3.9(19.12.1945)	101(14.12.1969)	142.5 (1969)

Ambikapur		December		
EXTREME WEATHER EVENTS FOR THE MONTH				
Year	Temperature(oC)		Rainfall (mm)	
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)
2016	25.8(2)	6.6(23)	0()	0.0
2015	28.2(02,03)	3.4(26)	0.7(18)	0.7
2014	26.5(1)	4.2(29)	14.7(16)	14.7
2013	25.2(24)	7.9(27)	0()	0.0
2012	28(11)	3.4(26)	10.2(12)	12.9
2011	26.9(31)	4.9(26)	0()	0.0
2010	24.9(3)	4.3(21)	26.4(9)	32.9
2009	25.7(14,16,17)	6.4(24)	1.9(19)	3.6
2008	27.7(13)	6.8(26)	0()	0.0
2007	25.6(14)	4.1(19)	0()	0.0
ALL TIME RECORD	29.5(22.12.1985)	1.7(26.12.1955)	31(11.12.1967)	95.6 (1997)

Durg		December		
EXTREME WEATHER EVENTS FOR THE MONTH				
Year	Temperature(oC)		Rainfall (mm)	
	Highest Maximum(Date)	Lowest Minimum(Date)	24 Hours Highest (Date)	Monthly Total(mm)
2016	32.4(5)	7.8(30)	0()	0.0
2015	34.2(4)	6.6(27)	0()	0.0
2014	32.8(1)	5.4(29)	0()	0.0
2013	32.4(2)	8.2(13)	0()	0.0
2012	33.2(8)	7.2(27)	0()	0.0
2011	30.5(31)	6.9(22)	0()	0.0
2010	30.8(1)	7.3(22)	11.4(9)	22.8
2009	30.8(9)	9.4(23,24)	16.4(19)	16.4
2008	NA(NA)	NA(NA)	NA(NA)	NA
2007	NA(NA)	NA(NA)	NA(NA)	NA
ALL TIME RECORD	34.4(14.12.1984)	5.4(29.12.2014)	41(02.12.1978)	41.0 (1978)