

CLIMATIC FEATURES OF RAIPUR DURING AUGUST

The following are general climatic features during the month of August for Raipur based on past data.

The climatic features of Raipur during the month of **August** are similar to that of July. Surface winds are generally from south westerly to westerly with speed about 9 kmph. Raipur receives monthly average rainfall of 355.4 mm with about 15 rainy days of which about 6 days are accompanied with thunder. Wet spells recording moderate to heavy rainfall on 2-3 successive days occur during the month. These are generally in association with depression moving inland from the Bay of Bengal across Orissa coast to Chhatisgarh. This month has the highest frequency of very heavy rainfall i.e. 13 cm or more. This is also the month when large breaks in monsoon activity are observed, particularly in the second half of the month. On an average Raipur experiences one squall in this month.

The normal maximum and minimum temperature during the month is 30.4° c and 23.8° c respectively with a low difference in daily temperatures. The relative humidity is high around 80-87%.

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

1. The highest maximum temperature of 37.5° c on 3rd August 1972.
2. The lowest minimum temperature 20.0° c on 20th August 1939.
3. The highest monthly rainfall 795.3 mm in the year 1947.
4. The minimum monthly rainfall of 100.8 mm in the year 1886
5. The heaviest fall in 24 hours was 370.3 mm on 4th August 1910.

The total rainfall in August during the last decade is given in the following table.

| <i>YEAR</i> | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| R/F in the month | 324.8 | 248.7 | 235.5 | 256.6 | 221.5 | 441.4 | 552.4 | 392.6 | 189.2 | 220.7 | 229.3 |

WEATHER PHENOMENON

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

| <i>Rainy Days</i> | <i>Drizzle/Rain (>3.0mm)</i> | <i>Hail</i> | <i>Thunder Storm</i> | <i>Squall</i> | <i>Dust Storm</i> | <i>Gale</i> | <i>Fog</i> |
|-------------------|---------------------------------|-------------|----------------------|---------------|-------------------|-------------|------------|
| 15.3 | 20.5 | 0.0 | 5.6 | 0.0 | 0.0 | 0.0 | 0.0 |

रायपुर का माह अगस्त का जलवायु लक्षण

रायपुर का अगस्त महीने का जलवायु लक्षण जुलाई माह के समान ही होता है । इस माह की औसत वर्षा ३५५.४ मिमी है तथा दिनों की संख्या १५ है । गर्जन के दिनों की संख्या ०६ है । इस भारी वर्षा की परिस्थिति तब पैदा होती है, जब बंगाल की खाड़ी अबदाब तट की ओर बढ़ता हुआ उड़ीसा तट को पार करते हुए छत्तीसगढ़ के मध्यभाग की ओर दिशा में बढ़ने लगता है । कुछ भारी वर्षा की सक्रियता १३ सेंमी या अधिक भारी वर्षा की उच्चतम आवृत्ति होती है । माह में विशेषतः दूसरे सप्ताह में मानसून गतिविधियों में भारी व्यवधान देखे गये हैं । इस माह में औसतन रायपुर में एक चक्रवात का अनुभव होता है ।

इस माह का सामान्य औसत अधिकतम तापमान ३०.४ डिग्री सेल्सियस तथा औसत न्यूनतम तापमान २३.८ डिग्री सेल्सियस होता है । इस तरह दैनिक तापमान में अंतर बहुत कम होता है । सापेक्ष आर्द्रता ८०-८७ प्रतिशत तक होती है ।

उपलब्ध अभिलेख के आधार पर रायपुर का इस माह सबसे अधिकतम तापमान ३७.५ डिग्री सेल्सियस ०३ अगस्त १९७२, सबसे न्यूनतम तापमान २० अगस्त १९३९ को २०.० डिग्री सेल्सियस रिकार्ड किया गया, सन १९४७ में सर्वाधिक कुल मासिक वर्षा ७९५.३ मि.मी. तथा सबसे कम कुल मासिक वर्षा १००.८ मिमी सन १८८६ में और ०४ अगस्त १९१० में २४ घंटों में ३७०.३ मि.मी. है ।

इस माह में पिछले दस वर्षों में अभिलेखित माह में कुल वर्षा दर्शित की गई है ।

| वर्ष | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 |
|-----------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| कुल वर्षा, मिमी | 324.8 | 248.7 | 235.5 | 256.6 | 221.5 | 441.4 | 552.4 | 392.6 | 189.2 | 220.7 | 229.3 |

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

| Raipur | | August | | 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) | |
| 2016 | 34.2(30) | 23.6(19) | 73.4(6) | 229.3 | |
| 2015 | 35.2(11) | 22.6(6) | 40.3(17) | 220.7 | |
| 2014 | 34.7(20) | 23.6(5) | 30.8(5) | 189.2 | |
| 2013 | 33(16) | 21.7(28) | 58.2(16) | 392.6 | |
| 2012 | 33.2(31) | 22.3(1) | 124(27) | 552.4 | |
| 2011 | 34.5(1) | 22.8(18) | 89(27) | 441.4 | |
| 2010 | 34.5(19) | 23.1(07,08) | 52.9(6) | 221.5 | |
| 2009 | 34(8,19) | 23.2(21) | 49.7(11) | 256.6 | |
| 2008 | 33.4(14) | 23.4(18) | 44.4(7) | 235.5 | |
| 2007 | 33.8(1) | 22.5(20) | 88.1(7) | 248.7 | |
| ALL TIME RECORD | 37.5(03.08.1972) | 20(20.08.1939) | 370.3(04.08.1910) | 795.3 (1947) | |

| Bilaspur | | August | | 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) | |
| 2016 | 33.8(30) | 23.4(17) | 49.1(5) | 183.5 | |
| 2015 | 34.5(25) | 22.4(6) | 73.7(17) | 351.2 | |
| 2014 | 35(22) | 22.6(23) | 104(5) | 350.2 | |
| 2013 | 34.2(5) | 22.4(29) | 68.6(29) | 390.1 | |
| 2012 | 34(30) | 23.3(1) | 54.1(19) | 337.4 | |
| 2011 | 36.2(1,2) | 22.9(19) | 77.8(27) | 555.6 | |
| 2010 | 35.3(11) | 22.4(3,7) | 60.5(3) | 224.0 | |
| 2009 | 36(9) | 23.4(20) | 110.9(11) | 449.3 | |
| 2008 | 34.8(30,31) | 23.1(20) | 37(8) | 274.3 | |
| 2007 | NA(NA) | NA(NA) | NA(NA) | NA | |
| ALL TIME RECORD | 36.2(01 & 02.08.2011) | 22.4(03 & 07.08.2010, 29.08.2013 & 06.08.2015) | 110.9(11.08.2009) | 555.6 (2011) | |

| Pendra | | August | | 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) | |
| 2016 | 33.6(30) | 20.3(24) | 60.2(5) | 302.0 | |
| 2015 | 33.5(10) | 18.9(5) | 54(17) | 286.8 | |
| 2014 | 33.9(27) | 20.2(7) | 68.7(6) | 359.3 | |
| 2013 | 32.6(17) | 20.2(2) | 77(28) | 398.9 | |
| 2012 | 32.4(31) | 21(04,23) | 114(26) | 404.7 | |
| 2011 | 32.6(23) | 19.9(11,12) | 82(6) | 409.7 | |
| 2010 | 32.8(12) | 18.1(8) | 46.2(3) | 235.9 | |
| 2009 | 33.1(5) | 20.8(21) | 89.4(15) | 303.0 | |
| 2008 | 32.9(7) | 20.5(29) | 50.3(15) | 229.2 | |
| 2007 | 32(28) | 21.4(1) | 43.8(3) | 197.6 | |
| ALL TIME RECORD | 35.2(03.08.1972) | 18.1(08.08.2010) | 262.1(18.08.1953) | 918.7 (1923) | |

| Jagdarpur | | August | | 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) | |
| 2016 | 33.5(31) | 19.6(5) | 70(7) | 324.3 | |
| 2015 | 33(11) | 20.4(5) | 79.3(17) | 382.4 | |
| 2014 | 33.1(20) | 20.6(17) | 49.8(17) | 276.3 | |
| 2013 | 32.1(16) | 19.8(1) | 39.2(17) | 229.1 | |
| 2012 | 34.2(26) | 20.8(5) | 69.5(9) | 546.2 | |
| 2011 | 32.6(1) | 22(17,19) | 71(27) | 299.7 | |
| 2010 | 33.1(24) | 20.9(6) | 160.5(5) | 499.6 | |
| 2009 | 32.8(4,31) | 21(20) | 47(11) | 269.6 | |
| 2008 | 31.5(29) | 21(21) | 54.8(4) | 292.1 | |
| 2007 | 33(1) | 21.5(24) | 141.2(7) | 377.3 | |
| ALL TIME RECORD | 39.8(25.05.1991) | 16.7(19.08.1920) | 203.2(15.08.1931) | 904.7 (1925) | |

| Ambikapur | | August | | 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) | |
| 2016 | 31.5(30) | 20.6(20) | 126.4(13) | 698.2 | |
| 2015 | 31.8(13) | 20.4(6) | 47.2(3) | 256.5 | |
| 2014 | 32.5(26) | 21.8(6) | 94(10) | 477.3 | |
| 2013 | 31.4(16) | 21(28) | 46(16) | 278.9 | |
| 2012 | 30.6(30) | 21.4(15) | 124.2(4) | 465.1 | |
| 2011 | 33.2(1) | 21.5(19) | 71(12) | 374.6 | |
| 2010 | 33(12) | 21.4(9) | 30.4(15) | 103.2 | |
| 2009 | 32.9(8) | 21.4(14) | 37.4(14) | 183.9 | |
| 2008 | 33.3(8) | 20.7(23) | 65.7(20) | 341.7 | |
| 2007 | 31.9(1) | 21.4(15,19) | 38.2(11) | 213.0 | |
| ALL TIME RECORD | 36.1(02.08.1972) | 19.8(05.08.1989) | 145(07.08.1998) | 743.1 (1960) | |

| Durg | | August | | 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) | |
| 2016 | 33.6(25) | 21.6(5) | 111(6) | 206.4 | |
| 2015 | 36.4(3) | 22.4(6) | 47.8(12) | 129.8 | |
| 2014 | 35.2(28) | 20.6(5) | 44.8(12) | 220.8 | |
| 2013 | 33.6(16) | 20.8(2) | 46.8(1) | 202.8 | |
| 2012 | 33.6(30) | 19.4(4) | 95.4(3) | 383.2 | |
| 2011 | 32.6(25) | 20.2(14) | 31.2(30) | 234.4 | |
| 2010 | 33.5(25) | 22.1(30) | 47.8(7) | 144.1 | |
| 2009 | 34.4(31) | 23.4(16,20,21,23) | 28.8(20) | 104.6 | |
| 2008 | NA(NA) | NA(NA) | NA(NA) | NA | |
| 2007 | NA(NA) | NA(NA) | NA(NA) | NA | |
| ALL TIME RECORD | 36.4(03.08.2015) | 19.4(04.08.2012) | 260.4(13.08.2006) | 511.9 (2006) | |