

AICRP on Agrometeorology
University of Agricultural Sciences, GKVK, Bangalore-560 065
Meteorological Observation at GKVK, Bangalore
PART-I

District : Bengaluru
 State : Karnataka

Lat : 13° 05' N
 Long : 77° 34' E
 Alt. : 924 m (amsl)

Month : September
 Year : 2019

| Date | Air Temperature °C | | | | | | PET (mm) | Soil Temperature °C | | | | | |
|---|--------------------|--------------|-------------|-------------|-------------|-------------|------------|---------------------|--------------|--------------|--------------|--------------|--------------|
| | Max. 0700 | Min. 1400 | Dry 0700 | Dry 1400 | Wet 0700 | Wet 1400 | | 5 Cm 0700 | 5 Cm 1400 | 10Cm 0700 | 10Cm 1400 | 15Cm 0700 | 15Cm 1400 |
| | LMT | LMT | LMT | LMT | LMT | LMT | IST | LMT | LMT | LMT | LMT | LMT | LMT |
| 1 | 28.0 | 18.4 | 21.0 | 25.8 | 20.4 | 21.0 | 2.7 | 21.6 | 27.0 | 22.4 | 26.6 | 23.6 | 26.0 |
| 2 | 26.4 | 18.2 | 21.2 | 26.4 | 20.8 | 21.0 | 2.7 | 21.8 | 26.8 | 22.4 | 26.0 | 23.8 | 25.0 |
| 3 | 26.8 | 18.4 | 21.2 | 26.0 | 20.8 | 21.2 | 2.6 | 21.6 | 27.6 | 22.0 | 26.6 | 23.0 | 26.0 |
| 4 | 26.8 | 18.6 | 21.4 | 25.0 | 20.8 | 20.8 | 2.7 | 22.0 | 27.6 | 23.0 | 27.0 | 23.8 | 26.6 |
| 5 | 25.8 | 17.8 | 20.8 | 26.6 | 20.2 | 21.0 | 2.5 | 20.8 | 27.4 | 21.6 | 26.8 | 22.0 | 26.2 |
| 6 | 27.0 | 18.0 | 22.0 | 26.8 | 20.8 | 21.2 | 2.4 | 21.6 | 27.6 | 22.4 | 26.6 | 23.6 | 26.0 |
| 7 | 27.2 | 18.0 | 20.8 | 26.8 | 20.2 | 21.2 | 2.8 | 21.8 | 28.0 | 22.0 | 27.0 | 23.0 | 26.8 |
| 8 | 27.8 | 18.4 | 21.6 | 27.0 | 20.4 | 21.0 | 3.0 | 21.8 | 28.6 | 22.4 | 27.0 | 23.4 | 26.8 |
| 9 | 28.0 | 18.6 | 21.8 | 27.6 | 20.4 | 21.2 | 3.1 | 22.0 | 28.8 | 23.4 | 27.4 | 24.0 | 27.0 |
| 10 | 28.2 | 18.2 | 22.0 | 28.0 | 21.0 | 21.4 | 2.8 | 22.0 | 29.0 | 22.8 | 28.0 | 23.8 | 27.2 |
| 11 | 28.8 | 19.4 | 22.4 | 27.0 | 21.2 | 20.8 | 3.2 | 21.6 | 28.4 | 22.4 | 27.0 | 23.4 | 26.6 |
| 12 | 28.0 | 19.6 | 21.0 | 28.4 | 20.0 | 21.4 | 3.3 | 21.4 | 29.6 | 22.0 | 27.8 | 23.6 | 26.8 |
| 13 | 29.0 | 18.8 | 22.0 | 28.6 | 20.8 | 21.6 | 3.5 | 22.0 | 29.8 | 23.4 | 28.0 | 24.4 | 27.8 |
| 14 | 29.0 | 19.0 | 22.2 | 29.0 | 20.6 | 21.4 | 3.4 | 23.0 | 29.4 | 23.8 | 28.2 | 24.4 | 27.8 |
| 15 | 30.0 | 19.0 | 21.6 | 28.6 | 20.8 | 21.2 | 3.6 | 22.4 | 29.8 | 23.4 | 28.8 | 24.2 | 28.0 |
| 16 | 29.4 | 18.6 | 21.0 | 26.6 | 20.4 | 20.8 | 3.6 | 21.8 | 28.0 | 22.4 | 27.6 | 23.0 | 27.0 |
| 17 | 27.6 | 18.2 | 20.6 | 24.6 | 20.0 | 21.2 | 2.7 | 21.0 | 27.8 | 22.2 | 26.8 | 23.0 | 26.6 |
| 18 | 25.8 | 18.8 | 22.0 | 27.0 | 21.0 | 20.8 | 2.5 | 21.2 | 27.8 | 22.0 | 27.0 | 23.0 | 26.8 |
| 19 | 28.0 | 17.8 | 20.0 | 27.8 | 19.8 | 21.0 | 2.8 | 21.6 | 27.6 | 22.0 | 26.6 | 22.4 | 26.0 |
| 20 | 28.2 | 18.2 | 22.0 | 27.2 | 20.8 | 21.2 | 3.1 | 21.6 | 27.8 | 22.0 | 27.0 | 23.0 | 26.6 |
| 21 | 28.0 | 18.6 | 22.0 | 28.0 | 20.8 | 21.0 | 3.3 | 21.6 | 28.6 | 22.4 | 27.6 | 23.6 | 27.0 |
| 22 | 29.2 | 18.8 | 21.6 | 26.6 | 20.8 | 21.0 | 3.6 | 21.8 | 28.6 | 22.4 | 28.0 | 23.8 | 27.0 |
| 23 | 26.8 | 19.6 | 22.0 | 27.2 | 20.8 | 21.2 | 2.4 | 21.6 | 27.6 | 22.0 | 27.0 | 23.0 | 26.8 |
| 24 | 28.0 | 18.0 | 21.8 | 26.8 | 20.8 | 21.0 | 2.8 | 21.4 | 26.8 | 22.0 | 26.0 | 23.0 | 26.0 |
| 25 | 28.0 | 18.8 | 22.0 | 27.0 | 20.8 | 20.8 | 3.1 | 21.2 | 26.8 | 22.0 | 26.0 | 22.8 | 25.8 |
| 26 | 27.6 | 18.2 | 22.0 | 27.0 | 21.0 | 21.2 | 2.8 | 21.0 | 27.0 | 22.0 | 26.8 | 23.6 | 26.0 |
| 27 | 27.0 | 18.0 | 22.0 | 28.0 | 21.2 | 21.6 | 3.2 | 21.6 | 28.4 | 22.0 | 27.2 | 23.0 | 27.0 |
| 28 | 28.6 | 18.4 | 22.0 | 27.8 | 21.0 | 21.4 | 3.4 | 22.0 | 28.8 | 22.8 | 27.8 | 23.6 | 27.2 |
| 29 | 28.8 | 18.6 | 22.0 | 28.8 | 21.0 | 21.8 | 3.5 | 22.0 | 29.6 | 22.8 | 27.6 | 23.2 | 27.0 |
| 30 | 29.6 | 18.8 | 22.6 | 28.0 | 21.4 | 21.2 | 3.7 | 22.4 | 29.0 | 23.6 | 27.8 | 24.0 | 27.2 |
| Mean | 27.9 | 18.5 | 21.6 | 27.2 | 20.7 | 21.2 | 3.0 | 21.7 | 28.2 | 22.5 | 27.2 | 23.4 | 26.7 |
| Weekly Mean | | | | | | | | | | | | | |
| Std.Week No:36 (Sept. 3 - Sept. 9) No. of Days : 7 | | | | | | | | | | | | | |
| Mean | 27.1 | 18.3 | 21.4 | 26.5 | 20.5 | 21.1 | 2.7 | 21.7 | 27.9 | 22.4 | 26.9 | 23.3 | 26.5 |
| Std.Week No:37 (Sept.10 - Sept.16) No. of Days: 7 | | | | | | | | | | | | | |
| Mean | 28.9 | 18.9 | 21.7 | 28.0 | 20.7 | 21.2 | 3.3 | 22.0 | 29.1 | 22.9 | 27.9 | 23.8 | 27.3 |
| Std.Week No:38 (Sept. 17 - Sept. 23) No. of Days: 7 | | | | | | | | | | | | | |
| Mean | 27.7 | 18.6 | 21.5 | 26.9 | 20.6 | 21.1 | 2.9 | 21.5 | 28.0 | 22.1 | 27.1 | 23.1 | 26.7 |
| Std.Week No:39 (Sept. 24 - Sept.30) No. of Days: 7 | | | | | | | | | | | | | |
| Mean | 28.2 | 18.4 | 22.1 | 27.6 | 21.0 | 21.3 | 3.2 | 21.7 | 28.1 | 22.5 | 27.0 | 23.3 | 26.6 |

PART II

Time of Observation:

I---> 0700 Hours LMT = 0720 IST

II---> 1400 Hours LMT = 1420 IST

Month : September

Year : 2019

| Date | Humidity | | | | Mean Wind | | | Bright SSH | Cloud Amount (Octas) | | Rainfall (mm) | Pan Evap. (mm) | | | |
|--|-------------|-------------|-------------|-----------|----------------|-----------|-----------|------------|----------------------|----------|---------------|----------------|------|------|------|
| | Vap. (mm) | Pr. Hg. | Rel. Hum. % | | Speed (Km/day) | Direction | | | | | | | | | |
| | 0700 | 1400 | 0700 | 1400 | 0700 | 0700 | 1400 | | 0700 | 0700 | | | 1400 | 0830 | 0830 |
| | LMT | LMT | LMT | LMT | LMT | LMT | LMT | | LMT | LMT | | | LMT | IST | IST |
| 1 | 17.6 | 16.0 | 95 | 64 | 10.0 | 270 | 230 | 0.0 | 8.0 | 6.0 | 0.0 | 5.0 | | | |
| 2 | 18.2 | 15.7 | 96 | 61 | 9.9 | 230 | 230 | 2.2 | 8.0 | 6.0 | 0.0 | 4.2 | | | |
| 3 | 18.2 | 16.2 | 96 | 64 | 10.7 | 230 | 230 | 1.0 | 6.0 | 6.0 | 0.0 | 3.0 | | | |
| 4 | 18.1 | 16.1 | 95 | 68 | 9.7 | 230 | 230 | 1.3 | 6.0 | 6.0 | 0.0 | 4.4 | | | |
| 5 | 17.4 | 15.5 | 95 | 60 | 9.8 | 230 | 230 | 0.8 | 8.0 | 8.0 | 2.4 | 2.0 | | | |
| 6 | 17.8 | 15.8 | 90 | 60 | 7.2 | 230 | 230 | 0.0 | 4.0 | 6.0 | 0.0 | 2.6 | | | |
| 7 | 17.4 | 15.8 | 95 | 60 | 11.3 | 230 | 230 | 1.4 | 6.0 | 6.0 | 3.0 | 2.8 | | | |
| 8 | 17.3 | 15.3 | 90 | 57 | 12.2 | 230 | 230 | 1.0 | 6.0 | 6.0 | 0.0 | 3.4 | | | |
| 9 | 17.2 | 15.3 | 88 | 55 | 12.3 | 230 | 230 | 0.2 | 6.0 | 6.0 | 0.0 | 4.0 | | | |
| 10 | 18.1 | 15.5 | 91 | 55 | 9.8 | 230 | 230 | 0.0 | 4.0 | 6.0 | 0.0 | 4.2 | | | |
| 11 | 18.2 | 15.0 | 90 | 56 | 7.8 | 230 | 230 | 3.4 | 6.0 | 6.0 | 0.0 | 3.8 | | | |
| 12 | 17.0 | 15.2 | 91 | 53 | 6.7 | 230 | 230 | 4.7 | 6.0 | 4.0 | 2.0 | 3.2 | | | |
| 13 | 17.8 | 15.5 | 90 | 53 | 8.1 | 270 | 230 | 6.6 | 4.0 | 4.0 | 0.0 | 4.6 | | | |
| 14 | 17.3 | 14.9 | 86 | 50 | 5.9 | 230 | 230 | 5.8 | 3.0 | 4.0 | 0.0 | 4.8 | | | |
| 15 | 18.0 | 14.8 | 93 | 50 | 6.8 | 230 | 230 | 7.0 | 6.0 | 4.0 | 2.0 | 4.0 | | | |
| 16 | 17.6 | 15.2 | 95 | 58 | 7.1 | 270 | 230 | 7.2 | 8.0 | 6.0 | 0.0 | 3.8 | | | |
| 17 | 17.2 | 17.0 | 95 | 73 | 7.1 | 230 | 230 | 1.6 | 6.0 | 6.0 | 6.4 | 3.0 | | | |
| 18 | 18.1 | 15.0 | 91 | 56 | 6.3 | 270 | 230 | 0.5 | 6.0 | 6.0 | 0.0 | 2.8 | | | |
| 19 | 17.2 | 14.9 | 98 | 53 | 3.9 | 230 | 230 | 2.6 | 8.0 | 6.0 | 71.2 | 3.0 | | | |
| 20 | 17.8 | 15.6 | 90 | 58 | 6.8 | 270 | 230 | 4.7 | 4.0 | 3.0 | 0.8 | 2.8 | | | |
| 21 | 17.8 | 14.8 | 90 | 52 | 5.0 | 270 | 320 | 6.2 | 2.0 | 3.0 | 0.0 | 3.8 | | | |
| 22 | 18.0 | 15.5 | 93 | 60 | 3.9 | 320 | 320 | 9.4 | 8.0 | 3.0 | 6.2 | 4.6 | | | |
| 23 | 17.8 | 15.6 | 90 | 58 | 2.0 | 320 | 320 | 0.0 | 6.0 | 6.0 | 28.4 | 3.4 | | | |
| 24 | 17.9 | 15.4 | 91 | 58 | 3.8 | 320 | 230 | 2.9 | 6.0 | 4.0 | 26.4 | 3.0 | | | |
| 25 | 17.8 | 15.0 | 90 | 56 | 3.0 | 230 | 230 | 5.0 | 6.0 | 6.0 | 20.4 | 3.8 | | | |
| 26 | 18.1 | 15.7 | 91 | 59 | 4.8 | 230 | 230 | 3.1 | 3.0 | 6.0 | 7.6 | 3.2 | | | |
| 27 | 18.4 | 15.8 | 93 | 56 | 9.2 | 230 | 230 | 5.8 | 6.0 | 4.0 | 0.0 | 2.8 | | | |
| 28 | 18.1 | 15.6 | 91 | 56 | 9.2 | 230 | 230 | 4.2 | 6.0 | 6.0 | 9.8 | 3.6 | | | |
| 29 | 18.1 | 15.7 | 91 | 53 | 2.9 | 230 | 140 | 8.2 | 4.0 | 6.0 | 0.0 | 3.8 | | | |
| 30 | 18.4 | 15.1 | 90 | 53 | 5.6 | 140 | 230 | 7.8 | 3.0 | 4.0 | 0.0 | 3.8 | | | |
| Mean | 17.8 | 19.1 | 92 | 57 | 7.3 | .. | .. | 3.5 | 6 | 5 | 186.6 | 3.6 | | | |
| Weekly Mean | | | | | | | | | | | | | | | |
| Std. Week No:36 (Sept. 3 - Sept. 9) No. of Days : 7 | | | | | | | | | | | | | | | |
| Mean | 17.6 | 15.7 | 92 | 61 | 10.5 | .. | .. | 0.8 | 6 | 6 | 5.4 | 3.2 | | | |
| Std. Week No:37 (Sept.10 - Sept.16) No. of Days: 7 | | | | | | | | | | | | | | | |
| Mean | 17.7 | 15.1 | 91 | 53 | 7.5 | .. | .. | 5.0 | 5 | 5 | 4.0 | 4.1 | | | |
| Std. Week No:38 (Sept .17 - Sept. 23) No. of Days: 7 | | | | | | | | | | | | | | | |
| Mean | 17.7 | 15.5 | 92 | 58 | 5.0 | .. | .. | 3.6 | 5 | 16 | 23.4 | 3.3 | | | |
| Std. Week No:39 (Sept. 24 - Sept.30) No. of Days: 7 | | | | | | | | | | | | | | | |
| Mean | 18.1 | 15.5 | 91 | 56 | 5.5 | .. | .. | 5.3 | 5 | 5 | 64.2 | 3.4 | | | |

Note: Rainfall is in Total