

AICRP on Agrometeorology
University of Agricultural Sciences, GKVK, Bangalore-560 065

Meteorological Observation at GKVK, Bangalore

PART- I

District : Bengaluru

Lat : 13° 05' N

Month : August

State : Karnataka

Long : 77° 34' E

Year : 2024

| Date | Air Temperature °C | | | | | | PET (mm) | Soil Temperature °C | | | | | |
|---|--------------------|------|------|------|------|------|-------------|---------------------|------|-------|-------|-------|-------|
| | Max. | Min. | Dry | Dry | Wet | Wet | | 5 cm | 5 cm | 10 cm | 10 cm | 20 cm | 20 cm |
| | 0700 | 1400 | 0700 | 1400 | 0700 | 1400 | | 0830 | 0700 | 1400 | 0700 | 1400 | 0700 |
| | LMT | LMT | LMT | LMT | LMT | LMT | IST | LMT | LMT | LMT | LMT | LMT | LMT |
| 1 | 28.6 | 19.2 | 22.0 | 25.6 | 21.2 | 20.6 | 4.6 | 20.0 | 25.0 | 21.2 | 24.2 | 22.4 | 24.0 |
| 2 | 27.0 | 18.0 | 22.0 | 27.0 | 21.4 | 22.4 | 4.3 | 21.2 | 26.0 | 21.4 | 25.4 | 22.0 | 25.0 |
| 3 | 27.8 | 18.2 | 23.0 | 24.0 | 21.8 | 21.2 | 4.5 | 20.0 | 27.0 | 21.2 | 26.2 | 22.0 | 25.0 |
| 4 | 26.8 | 19.0 | 21.8 | 26.8 | 20.2 | 20.4 | 4.1 | 20.2 | 28.0 | 21.2 | 27.2 | 21.8 | 26.0 |
| 5 | 27.8 | 19.4 | 21.8 | 28.8 | 20.2 | 23.4 | 4.3 | 22.0 | 28.2 | 23.2 | 27.6 | 24.0 | 27.0 |
| 6 | 29.2 | 20.0 | 21.0 | 27.6 | 20.0 | 23.6 | 4.6 | 20.0 | 27.0 | 21.2 | 26.8 | 22.6 | 26.0 |
| 7 | 28.0 | 19.2 | 22.0 | 25.6 | 21.6 | 22.8 | 4.4 | 20.2 | 26.0 | 21.0 | 25.8 | 21.8 | 25.0 |
| 8 | 26.0 | 18.2 | 22.0 | 26.4 | 21.4 | 23.0 | 4.0 | 20.6 | 27.0 | 21.2 | 26.8 | 21.8 | 26.0 |
| 9 | 27.6 | 19.4 | 22.0 | 28.0 | 20.2 | 23.6 | 4.2 | 22.0 | 28.0 | 23.2 | 27.2 | 24.0 | 27.0 |
| 10 | 29.2 | 18.0 | 21.0 | 27.4 | 20.0 | 23.4 | 4.9 | 21.2 | 28.0 | 22.0 | 27.6 | 22.8 | 27.0 |
| 11 | 29.6 | 19.0 | 21.2 | 27.8 | 20.0 | 21.6 | 4.9 | 20.2 | 28.2 | 21.2 | 27.0 | 22.4 | 26.6 |
| 12 | 29.0 | 18.2 | 21.8 | 28.4 | 20.6 | 24.0 | 4.8 | 20.0 | 29.0 | 20.8 | 27.6 | 21.0 | 27.0 |
| 13 | 28.8 | 18.0 | 21.0 | 29.0 | 20.4 | 23.8 | 4.8 | 20.2 | 29.2 | 21.2 | 28.0 | 21.8 | 27.6 |
| 14 | 30.2 | 19.8 | 21.6 | 29.4 | 20.8 | 23.6 | 4.9 | 21.2 | 33.0 | 22.0 | 32.4 | 23.4 | 31.8 |
| 15 | 30.6 | 20.0 | 21.0 | 28.8 | 20.0 | 23.4 | 5.0 | 21.0 | 29.0 | 22.0 | 28.4 | 23.4 | 28.0 |
| 16 | 29.2 | 18.0 | 21.2 | 28.6 | 20.0 | 24.2 | 4.9 | 20.0 | 31.2 | 21.2 | 30.0 | 23.4 | 29.2 |
| 17 | 29.0 | 18.0 | 22.0 | 29.4 | 20.6 | 24.2 | 4.9 | 20.0 | 30.2 | 21.2 | 29.0 | 23.0 | 28.2 |
| 18 | 30.4 | 20.2 | 23.4 | 29.4 | 21.8 | 24.0 | 4.9 | 21.0 | 30.6 | 21.8 | 30.0 | 22.0 | 29.0 |
| 19 | 30.2 | 21.0 | 23.4 | 28.8 | 21.8 | 23.6 | 4.7 | 20.0 | 31.0 | 21.2 | 30.2 | 22.4 | 30.0 |
| 20 | 30.0 | 20.0 | 21.6 | 28.6 | 20.4 | 23.8 | 4.8 | 21.0 | 30.4 | 22.4 | 29.6 | 23.0 | 29.0 |
| 21 | 29.6 | 19.0 | 21.0 | 27.4 | 20.4 | 23.2 | 4.9 | 20.2 | 30.0 | 21.0 | 29.4 | 22.4 | 29.0 |
| 22 | 29.8 | 18.4 | 21.0 | 27.0 | 20.0 | 22.0 | 5.0 | 21.0 | 30.2 | 22.2 | 29.6 | 23.4 | 29.0 |
| 23 | 28.4 | 18.0 | 23.2 | 28.8 | 21.0 | 23.2 | 4.7 | 20.0 | 32.4 | 21.2 | 31.0 | 22.4 | 30.2 |
| 24 | 29.0 | 18.6 | 21.0 | 27.8 | 20.0 | 23.0 | 4.8 | 21.0 | 31.0 | 22.4 | 30.2 | 23.0 | 29.6 |
| 25 | 30.0 | 19.8 | 23.0 | 27.0 | 21.8 | 21.8 | 4.8 | 20.0 | 30.2 | 21.2 | 29.6 | 21.8 | 29.0 |
| 26 | 28.0 | 18.0 | 21.6 | 27.4 | 20.8 | 22.6 | 4.6 | 20.2 | 30.0 | 21.6 | 29.8 | 23.0 | 29.0 |
| 27 | 28.2 | 18.2 | 22.0 | 25.8 | 20.6 | 22.2 | 4.6 | 21.2 | 29.2 | 21.6 | 28.0 | 22.0 | 27.0 |
| 28 | 28.2 | 19.4 | 22.2 | 25.2 | 20.4 | 22.4 | 4.4 | 23.2 | 30.2 | 24.0 | 28.8 | 24.6 | 27.4 |
| 29 | 28.6 | 20.2 | 22.0 | 24.2 | 20.2 | 22.0 | 4.3 | 23.4 | 29.0 | 24.6 | 27.0 | 25.0 | 26.4 |
| 30 | 26.8 | 19.0 | 21.0 | 26.0 | 20.4 | 22.4 | 4.0 | 23.2 | 27.0 | 24.0 | 26.0 | 25.8 | 25.0 |
| 31 | 27.0 | 18.2 | 22.0 | 25.2 | 21.4 | 22.4 | 4.2 | 22.0 | 28.0 | 24.2 | 27.2 | 26.0 | 27.0 |
| Mean | 28.7 | 19.0 | 21.8 | 27.3 | 20.7 | 22.8 | 4.6 | 20.9 | 29.0 | 21.9 | 28.2 | 22.9 | 27.5 |
| Std. Week No: 32 (August 6- August 12) No. of Days: 7 | | | | | | | | | | | | | |
| Mean | 28.4 | 18.9 | 21.6 | 27.3 | 20.5 | 23.1 | 4.5 | 20.6 | 27.6 | 21.5 | 27.0 | 22.3 | 26.4 |
| Std. Week No: 33 (August 13 -August 19) No. of Days: 7 | | | | | | | | | | | | | |
| Mean | 29.8 | 19.3 | 21.9 | 29.1 | 20.8 | 23.8 | 4.9 | 20.5 | 30.6 | 21.5 | 29.7 | 22.8 | 29.1 |
| Std. Week No: 34 (August 20 - August 26) No. of Days: 7 | | | | | | | | | | | | | |
| Mean | 29.3 | 18.8 | 21.8 | 27.7 | 20.6 | 22.8 | 4.8 | 20.5 | 30.6 | 21.7 | 29.9 | 22.7 | 29.3 |
| Std. Week No:35 (August 27 - Sept. 02) No. of Days: 7 | | | | | | | | | | | | | |
| Mean | 27.8 | 19.0 | 21.8 | 25.3 | 20.6 | 22.3 | 4.8 | 22.6 | 28.7 | 23.7 | 27.4 | 24.7 | 26.6 |

PART- II

Time of Observation:

I---> 0700 Hours LMT = 0720 IST

II---> 1400 Hours LMT = 1420 IST

Month : August

Year : 2024

| Date | Humidity | | | | Mean Wind | | | Bright SSH | Cloud Amount (Octas) | | Rainfall (mm) | Pan Evap. (mm) |
|---|--------------|-------------|-------------|-----------|----------------|-----------|-----------|------------|----------------------|------------|---------------|----------------|
| | Vap. Pr. Hg. | | Rel. Hum. % | | Speed (Km/day) | Direction | | | 0700 | 1400 | | |
| | 0700 | 1400 | 0700 | 1400 | 0700 | 0700 | 1400 | | 0700 | 1400 | | |
| | LMT | LMT | LMT | LMT | LMT | LMT | LMT | LMT | LMT | 0830 | 0830 | |
| 1 | 18.4 | 15.4 | 93 | 63 | 6.0 | 270 | 270 | 1.6 | 6.0 | 4.0 | 36.2 | 2.4 |
| 2 | 18.8 | 17.8 | 95 | 66 | 5.9 | 270 | 230 | 5.3 | 6.0 | 4.0 | 4.2 | 2.0 |
| 3 | 18.9 | 17.3 | 90 | 77 | 8.0 | 270 | 270 | 5.0 | 4.0 | 4.0 | 0.0 | 4.2 |
| 4 | 16.9 | 14.4 | 86 | 55 | 4.9 | 270 | 270 | 1.4 | 6.0 | 4.0 | 7.4 | 3.0 |
| 5 | 16.9 | 18.6 | 86 | 63 | 5.2 | 270 | 315 | 3.8 | 4.0 | 4.0 | 0.0 | 3.4 |
| 6 | 17.0 | 19.6 | 91 | 71 | 3.3 | 270 | 230 | 3.8 | 6.0 | 6.0 | 33.2 | 3.0 |
| 7 | 19.1 | 19.3 | 96 | 78 | 3.9 | 270 | 270 | 2.7 | 6.0 | 4.0 | 17.0 | 3.6 |
| 8 | 18.8 | 19.2 | 95 | 74 | 4.0 | 270 | 315 | 0.0 | 4.0 | 4.0 | 1.2 | 3.0 |
| 9 | 16.8 | 19.4 | 85 | 68 | 5.3 | 315 | 315 | 3.1 | 4.0 | 4.0 | 0.0 | 3.6 |
| 10 | 17.0 | 19.4 | 91 | 71 | 4.8 | 315 | 270 | 6.6 | 6.0 | 4.0 | 2.0 | 3.2 |
| 11 | 16.9 | 15.9 | 89 | 57 | 3.5 | 315 | 270 | 3.8 | 6.0 | 6.0 | 2.6 | 3.0 |
| 12 | 17.5 | 19.9 | 90 | 69 | 3.8 | 315 | 45 | 3.4 | 4.0 | 4.0 | 46.2 | 2.2 |
| 13 | 17.6 | 19.2 | 95 | 64 | 3.6 | 315 | 45 | 3.5 | 4.0 | 4.0 | 1.0 | 2.8 |
| 14 | 18.0 | 18.6 | 93 | 61 | 3.8 | 90 | 140 | 9.9 | 4.0 | 4.0 | 0.0 | 4.4 |
| 15 | 17.0 | 18.6 | 91 | 63 | 4.3 | 90 | 140 | 9.0 | 4.0 | 4.0 | 0.0 | 5.2 |
| 16 | 16.9 | 20.2 | 89 | 69 | 5.5 | 90 | 315 | 6.1 | 4.0 | 6.0 | 38.4 | 3.0 |
| 17 | 17.4 | 19.8 | 88 | 64 | 2.0 | 90 | 45 | 3.5 | 6.0 | 4.0 | 32.0 | 3.4 |
| 18 | 18.7 | 19.4 | 87 | 63 | 2.1 | 90 | 140 | 3.2 | 4.0 | 4.0 | 1.0 | 3.4 |
| 19 | 18.7 | 19.0 | 87 | 64 | 3.4 | 140 | 315 | 4.7 | 4.0 | 6.0 | 0.8 | 4.0 |
| 20 | 17.3 | 19.4 | 89 | 66 | 1.0 | 140 | 140 | 4.7 | 4.0 | 4.0 | 2.8 | 2.6 |
| 21 | 17.6 | 19.0 | 95 | 69 | 1.4 | 140 | 180 | 5.1 | 6.0 | 4.0 | 18.4 | 3.4 |
| 24 | 17.0 | 17.1 | 91 | 64 | 4.8 | 140 | 315 | 7.3 | 4.0 | 4.0 | 0.0 | 4.4 |
| 23 | 17.4 | 18.2 | 82 | 61 | 6.2 | 140 | 315 | 7.7 | 4.0 | 4.0 | 0.0 | 4.8 |
| 24 | 17.0 | 18.4 | 91 | 66 | 7.4 | 270 | 315 | 9.4 | 4.0 | 4.0 | 0.0 | 5.2 |
| 25 | 18.9 | 16.7 | 90 | 62 | 8.9 | 270 | 270 | 5.0 | 4.0 | 4.0 | 0.0 | 5.6 |
| 26 | 18.0 | 17.9 | 93 | 65 | 8.0 | 270 | 180 | 4.4 | 4.0 | 4.0 | 0.0 | 3.8 |
| 27 | 17.4 | 18.1 | 88 | 73 | 7.3 | 180 | 230 | 6.6 | 4.0 | 4.0 | 0.8 | 3.6 |
| 28 | 17.0 | 18.8 | 85 | 78 | 6.6 | 230 | 315 | 5.0 | 2.0 | 2.0 | 0.0 | 4.0 |
| 29 | 16.8 | 18.6 | 85 | 82 | 6.8 | 180 | 45 | 1.0 | 4.0 | 8.0 | 0.0 | 3.6 |
| 30 | 17.6 | 18.3 | 95 | 73 | 4.3 | 180 | 315 | 0.6 | 4.0 | 6.0 | 13.8 | 2.0 |
| 31 | 18.8 | 18.8 | 95 | 78 | 5.1 | 180 | 140 | 0.3 | 4.0 | 4.0 | 2.2 | 3.2 |
| Mean | 17.7 | 18.4 | 90 | 68 | 4.9 | .. | .. | 4.4 | 5 | 4.0 | 261.2 | 3.5 |
| Std. Week No: 32 (August 6 - August 12) No. of Days: 7 | | | | | | | | | | | | |
| Mean | 17.6 | 18.9 | 91 | 70 | 4.1 | .. | .. | 3.3 | 5.1 | 4.6 | 102.2 | 3.1 |
| Std. Week No: 33 (August 13 - August 19) No. of Days: 7 | | | | | | | | | | | | |
| Mean | 17.8 | 19.2 | 90 | 64 | 3.5 | .. | .. | 5.7 | 4.3 | 4.6 | 73.2 | 3.7 |
| Std. Week No: 34 (August 20 - August 26) No. of Days: 7 | | | | | | | | | | | | |
| Mean | 17.6 | 18.1 | 90 | 65 | 5.4 | .. | .. | 6.2 | 4.3 | 4.0 | 21.2 | 4.3 |
| Std. Week No: 35 (August 27 - Sept.02) No. of Days: 7 | | | | | | | | | | | | |
| Mean | 17.5 | 18.5 | 89 | 77 | 6.0 | .. | .. | 2.7 | 3.6 | 4.8 | 16.8 | 3.3 |