

**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: May
Year : 2023**

| Date | Air Temperature °C | | | | | | PET (mm) | Soil Temperature °C | | | | | | |
|----------------------------------------------------------|--------------------|------|------|------|------|------|-------------|---------------------|------|------|------|------|------|------|
| | Max. | Min. | Dry | Dry | Wet | Wet | | 5 Cm | 5 Cm | 10Cm | 10Cm | 15Cm | 15Cm | |
| | 0700 | 700 | 0700 | 1400 | 0700 | 1400 | | 0700 | 0700 | 1400 | 0700 | 1400 | 0700 | 1400 |
| | LMT | LMT | LMT | LMT | LMT | LMT | | IST | LMT | LMT | LMT | LMT | LMT | LMT |
| 1 | 31.4 | 20.4 | 21.2 | 28.8 | 20.6 | 21.6 | 5.2 | 23.4 | 29.6 | 23.8 | 27.8 | 23.8 | 27.0 | |
| 2 | 29.2 | 20.0 | 23.2 | 29.0 | 21.0 | 21.4 | 4.6 | 23.0 | 29.8 | 23.4 | 29.0 | 23.6 | 28.8 | |
| 3 | 30.0 | 20.4 | 22.6 | 28.0 | 21.0 | 21.6 | 4.8 | 23.6 | 28.8 | 24.4 | 27.8 | 24.6 | 26.8 | |
| 4 | 29.0 | 19.8 | 23.0 | 29.8 | 21.4 | 21.6 | 4.6 | 22.6 | 28.0 | 23.6 | 27.6 | 24.0 | 27.0 | |
| 5 | 30.4 | 20.4 | 22.8 | 27.6 | 21.6 | 21.8 | 4.9 | 22.0 | 28.2 | 23.2 | 26.8 | 23.6 | 26.8 | |
| 6 | 27.8 | 21.4 | 23.6 | 24.0 | 21.6 | 21.2 | 3.9 | 22.2 | 28.0 | 23.2 | 26.8 | 24.0 | 26.4 | |
| 7 | 24.0 | 20.8 | 22.4 | 26.8 | 21.0 | 21.2 | 2.6 | 22.4 | 26.8 | 23.0 | 26.0 | 23.6 | 26.0 | |
| 8 | 27.6 | 20.6 | 22.4 | 28.0 | 21.2 | 21.6 | 4.0 | 22.0 | 28.8 | 22.4 | 27.8 | 22.8 | 27.0 | |
| 9 | 29.6 | 20.0 | 23.6 | 30.6 | 21.4 | 21.8 | 4.7 | 23.2 | 31.0 | 23.8 | 30.0 | 24.6 | 28.8 | |
| 10 | 31.8 | 21.0 | 23.0 | 31.8 | 21.4 | 22.0 | 5.2 | 24.0 | 32.8 | 24.8 | 31.0 | 25.8 | 29.6 | |
| 11 | 33.0 | 21.6 | 23.6 | 31.0 | 21.8 | 21.6 | 5.5 | 24.6 | 32.8 | 25.4 | 32.4 | 26.6 | 31.0 | |
| 12 | 32.0 | 19.6 | 22.8 | 30.0 | 21.2 | 22.0 | 5.5 | 22.8 | 33.8 | 23.8 | 32.0 | 24.6 | 31.8 | |
| 13 | 31.0 | 21.4 | 23.2 | 30.0 | 21.8 | 21.8 | 4.9 | 23.0 | 33.4 | 23.8 | 31.8 | 24.8 | 30.0 | |
| 14 | 30.2 | 21.2 | 22.6 | 30.8 | 21.0 | 21.6 | 4.7 | 23.2 | 33.6 | 23.8 | 32.0 | 24.6 | 31.0 | |
| 15 | 31.8 | 21.6 | 23.4 | 31.4 | 21.6 | 21.8 | 5.1 | 23.6 | 34.6 | 24.0 | 31.8 | 24.2 | 30.0 | |
| 16 | 32.4 | 21.4 | 23.6 | 32.2 | 21.4 | 22.4 | 5.3 | 23.8 | 37.0 | 24.6 | 35.2 | 25.4 | 33.0 | |
| 17 | 33.6 | 20.6 | 24.0 | 33.8 | 22.0 | 23.0 | 5.8 | 24.6 | 38.0 | 25.6 | 36.0 | 26.8 | 34.6 | |
| 18 | 34.2 | 23.0 | 25.0 | 33.4 | 22.8 | 22.8 | 5.6 | 25.4 | 38.2 | 26.0 | 37.0 | 27.6 | 36.6 | |
| 19 | 34.2 | 22.4 | 24.2 | 33.8 | 22.6 | 23.2 | 5.7 | 25.6 | 38.0 | 26.8 | 36.8 | 27.4 | 36.6 | |
| 20 | 34.2 | 23.0 | 25.2 | 33.8 | 23.0 | 22.0 | 5.6 | 25.4 | 37.0 | 26.6 | 36.6 | 27.6 | 36.4 | |
| 21 | 34.4 | 21.8 | 23.8 | 31.8 | 21.8 | 21.8 | 5.8 | 24.6 | 37.8 | 25.6 | 36.8 | 26.8 | 36.0 | |
| 22 | 33.2 | 20.8 | 23.6 | 31.6 | 21.8 | 21.4 | 5.7 | 23.6 | 37.6 | 23.8 | 36.0 | 24.0 | 35.8 | |
| 23 | 32.4 | 21.6 | 23.4 | 31.8 | 21.8 | 21.8 | 5.3 | 23.4 | 34.0 | 23.8 | 33.0 | 24.4 | 31.8 | |
| 24 | 32.0 | 20.0 | 22.8 | 30.0 | 21.6 | 21.6 | 5.4 | 22.8 | 34.6 | 23.6 | 34.0 | 24.0 | 33.0 | |
| 25 | 30.8 | 21.4 | 23.0 | 30.6 | 21.6 | 21.8 | 4.8 | 22.4 | 37.4 | 23.8 | 33.8 | 24.4 | 33.0 | |
| 26 | 31.6 | 21.2 | 23.6 | 30.8 | 21.6 | 21.8 | 5.1 | 23.2 | 37.6 | 23.8 | 36.6 | 24.6 | 34.0 | |
| 27 | 31.4 | 21.2 | 23.4 | 32.0 | 21.4 | 23.0 | 5.0 | 23.4 | 38.0 | 24.4 | 36.8 | 25.0 | 36.4 | |
| 28 | 32.4 | 22.0 | 24.0 | 32.2 | 22.2 | 23.2 | 5.2 | 24.0 | 38.0 | 25.4 | 37.0 | 26.6 | 36.0 | |
| 29 | 32.8 | 22.2 | 24.4 | 31.8 | 23.8 | 22.4 | 5.3 | 24.4 | 36.0 | 26.0 | 34.6 | 27.2 | 33.8 | |
| 30 | 32.8 | 22.0 | 24.4 | 31.8 | 22.2 | 21.4 | 5.3 | 24.6 | 36.6 | 26.0 | 36.0 | 27.4 | 34.8 | |
| 31 | 32.6 | 19.4 | 22.6 | 31.4 | 20.2 | 22.0 | 5.7 | 23.8 | 37.0 | 23.8 | 34.8 | 24.8 | 33.8 | |
| Mean | 31.4 | 21.1 | 23.4 | 30.7 | 21.7 | 21.9 | 5.1 | 23.6 | 34.0 | 24.4 | 32.6 | 25.1 | 31.7 | |
| Weekly mean | | | | | | | | | | | | | | |
| Std. Week No:19 (May 7- May 13) No. of Days: 7 | | | | | | | | | | | | | | |
| Mean | 28.8 | 20.5 | 22.7 | 27.7 | 21.2 | 21.5 | 4.6 | 22.7 | 28.5 | 23.5 | 27.4 | 23.9 | 27.0 | |
| Std. Week No:20 (May 14 - May 20) No. of Days: 7 | | | | | | | | | | | | | | |
| Mean | 30.7 | 20.8 | 23.0 | 30.3 | 21.4 | 21.8 | 5.4 | 23.3 | 32.3 | 24.0 | 31.0 | 24.8 | 29.9 | |
| Std. Week No: 21 (May21 - May 27) No. of Days: 7 | | | | | | | | | | | | | | |
| Mean | 33.5 | 22.0 | 24.2 | 32.9 | 22.2 | 22.4 | 5.3 | 24.7 | 37.2 | 25.6 | 35.7 | 26.5 | 34.7 | |
| Std. Week No:22 (May 28 - June 3) No. of Days: 7 | | | | | | | | | | | | | | |
| Mean | 32.0 | 21.2 | 23.4 | 31.3 | 21.7 | 22.1 | 5.4 | 23.3 | 36.7 | 24.1 | 35.3 | 24.7 | 34.3 | |

PART II

Time of Observation:

I---> 0700 Hours LMT = 0720 IST

II---> 1400 Hours LMT = 1420 IST

Month: May

Year : 2023

| Date | Humidity | | | | Mean Wind | | | Bright SSH | Cloud Amount (Octas) | | Rainfall (mm) | Pan Evap. (mm) | | | |
|----------------------------------------------------------|----------------------|-------------|----------------|-----------|-------------------|-----------|-----------|---------------|----------------------------|----------|------------------|----------------------|------|------|------|
| | Vap. Pr. (mm) 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 | 17.9 | 15.4 | 95 | 52 | 4.2 | 230 | 230 | 4.6 | 2 | 3 | 29.2 | 7.0 | | | |
| 2 | 17.4 | 14.9 | 82 | 50 | 5.5 | 230 | 45 | 3.4 | 6 | 4 | 2.2 | 7.4 | | | |
| 3 | 17.8 | 15.8 | 86 | 56 | 4.2 | 230 | 230 | 5.2 | 6 | 3 | 1.2 | 6.6 | | | |
| 4 | 18.2 | 14.8 | 87 | 47 | 2.3 | 270 | 270 | 1.4 | 3 | 3 | 42.4 | 2.8 | | | |
| 5 | 18.7 | 16.4 | 90 | 59 | 3.8 | 315 | 270 | 4.8 | 8 | 3 | 9.2 | 6.2 | | | |
| 6 | 18.2 | 17.3 | 83 | 77 | 3.5 | 270 | 270 | 3.5 | 3 | 6 | 0.0 | 6.0 | | | |
| 7 | 17.9 | 15.8 | 88 | 60 | 5.6 | 270 | 270 | 6.1 | 6 | 4 | 0.0 | 4.6 | | | |
| 8 | 18.2 | 15.8 | 90 | 56 | 2.7 | 315 | 45 | 1.4 | 6 | 3 | 2.8 | 4.4 | | | |
| 9 | 17.9 | 14.7 | 82 | 45 | 3.5 | 45 | 315 | 6.1 | 0 | 2 | 0.0 | 6.4 | | | |
| 10 | 18.2 | 14.4 | 87 | 41 | 4.2 | 315 | 270 | 9.2 | 0 | 0 | 0.0 | 6.6 | | | |
| 11 | 18.6 | 14.1 | 85 | 42 | 4.1 | 270 | 270 | 10.0 | 0 | 0 | 0.0 | 6.8 | | | |
| 12 | 18.0 | 15.4 | 86 | 48 | 3.6 | 270 | 270 | 7.2 | 0 | 3 | 14.4 | 4.8 | | | |
| 13 | 18.8 | 15.0 | 88 | 47 | 4.5 | 270 | 270 | 6.0 | 2 | 2 | 0.0 | 7.2 | | | |
| 14 | 17.8 | 14.2 | 86 | 43 | 7.5 | 270 | 270 | 5.5 | 0 | 2 | 0.0 | 6.4 | | | |
| 15 | 18.4 | 14.3 | 85 | 41 | 6.0 | 230 | 230 | 9.3 | 0 | 2 | 0.0 | 7.2 | | | |
| 16 | 17.9 | 14.9 | 82 | 41 | 3.9 | 230 | 230 | 9.6 | 0 | 2 | 0.0 | 6.8 | | | |
| 17 | 18.7 | 15.1 | 84 | 38 | 2.8 | 45 | 315 | 11.2 | 0 | 0 | 0.0 | 7.6 | | | |
| 18 | 19.6 | 14.9 | 82 | 39 | 3.1 | 315 | 315 | 8.4 | 0 | 0 | 0.0 | 7.8 | | | |
| 19 | 19.7 | 15.4 | 87 | 39 | 4.1 | 230 | 230 | 9.6 | 0 | 0 | 0.0 | 7.4 | | | |
| 20 | 19.8 | 13.3 | 83 | 34 | 4.5 | 230 | 230 | 8.3 | 0 | 0 | 0.0 | 6.4 | | | |
| 21 | 18.5 | 14.0 | 84 | 40 | 3.7 | 230 | 230 | 7.6 | 0 | 0 | 0.0 | 7.2 | | | |
| 22 | 18.6 | 13.5 | 85 | 39 | 3.9 | 230 | 230 | 7.6 | 0 | 0 | 34.0 | 7.0 | | | |
| 23 | 18.7 | 14.0 | 87 | 40 | 3.5 | 90 | 230 | 9.2 | 0 | 2 | 0.0 | 6.4 | | | |
| 24 | 18.7 | 14.7 | 90 | 46 | 3.8 | 230 | 270 | 8.8 | 0 | 2 | 2.0 | 6.6 | | | |
| 25 | 18.6 | 14.7 | 88 | 45 | 5.6 | 270 | 270 | 8.8 | 3 | 2 | 0.0 | 6.4 | | | |
| 26 | 18.2 | 14.6 | 83 | 44 | 5.8 | 270 | 270 | 4.4 | 0 | 2 | 0.0 | 6.8 | | | |
| 27 | 18.0 | 16.1 | 83 | 45 | 6.3 | 270 | 270 | 10.2 | 0 | 0 | 0.0 | 7.4 | | | |
| 28 | 19.1 | 16.3 | 85 | 45 | 3.1 | 270 | 270 | 10.3 | 0 | 0 | 0.0 | 7.6 | | | |
| 29 | 21.8 | 15.1 | 95 | 43 | 5.3 | 315 | 270 | 10.1 | 0 | 0 | 0.0 | 7.8 | | | |
| 30 | 18.8 | 13.3 | 82 | 38 | 2.2 | 270 | 270 | 4.5 | 0 | 0 | 0.8 | 6.0 | | | |
| 31 | 16.4 | 14.6 | 80 | 42 | 2.3 | 270 | 270 | 7.6 | 0 | 0 | 16.6 | 6.6 | | | |
| Mean | 18.5 | 14.9 | 86 | 46 | 4.2 | .. | .. | 7.1 | 1 | 2 | 154.8 | 6.5 | | | |
| Weekly mean | | | | | | | | | | | | | | | |
| Std. Week No:19 (May 7- May 13) No. of Days: 7 | | | | | | | | | | | | | | | |
| Mean | 18.0 | 15.0 | 87 | 57 | 4.2 | .. | .. | 4.1 | 5 | 4 | 12.0 | 5.8 | | | |
| Std. Week No:20 (May 14 - May 20) No. of Days: 7 | | | | | | | | | | | | | | | |
| Mean | 18.2 | 14.6 | 86 | 46 | 4.3 | .. | .. | 6.5 | 1 | 2 | 2.5 | 6.1 | | | |
| Std. Week No: 21 (May21 - May 27) No. of Days: 7 | | | | | | | | | | | | | | | |
| Mean | 18.9 | 14.5 | 84 | 39 | 4.0 | .. | .. | 9.1 | 0 | 1 | 4.3 | 7.2 | | | |
| Std. Week No:22 (May 28 - June 3) No. of Days: 7 | | | | | | | | | | | | | | | |
| Mean | 18.6 | 14.8 | 86 | 43 | 4.6 | .. | .. | 8.5 | 1 | 1 | 0.4 | 6.9 | | | |