

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 : 2021

| Date   | Air Temperature °C |      |      |      |      |      | PET<br>(mm)<br><br>IST | Soil Temperature °C |      |       |       |       |       |
|--|--------------------|------|------|------|------|------|------------------------|---------------------|------|-------|-------|-------|-------|
|  | Max.               | Min. | Dry  | Dry  | Wet  | Wet  |                        | 5 cm                | 5 cm | 10 cm | 10 cm | 15 cm | 15 cm |
|  | 0700               | 1400 | 0700 | 1400 | 0700 | 1400 |                        | 0700                | 1400 | 0700  | 1400  | 0700  | 1400  |
|  | LMT                | LMT  | LMT  | LMT  | LMT  | LMT  |                        | LMT                 | LMT  | LMT   | LMT   | LMT   | LMT   |
| 1  | 27.8               | 18.0 | 21.8 | 29.0 | 20.0 | 21.6 | 4.5                    | 21.6                | 28.4 | 22.4  | 27.0  | 23.8  | 26.4  |
| 2  | 30.0               | 20.2 | 22.8 | 27.0 | 20.8 | 21.4 | 4.8                    | 21.8                | 28.0 | 22.4  | 27.6  | 24.4  | 27.0  |
| 3  | 27.4               | 19.0 | 22.6 | 28.4 | 20.8 | 21.6 | 4.2                    | 22.4                | 27.8 | 23.6  | 27.0  | 23.8  | 26.8  |
| 4  | 29.2               | 19.2 | 22.4 | 28.8 | 21.4 | 21.8 | 4.7                    | 21.6                | 28.8 | 22.4  | 27.0  | 23.4  | 26.6  |
| 5  | 30.2               | 19.6 | 22.4 | 27.0 | 20.8 | 21.4 | 5.0                    | 21.0                | 26.8 | 22.4  | 26.0  | 23.2  | 25.0  |
| 6  | 27.2               | 19.0 | 22.6 | 27.2 | 21.0 | 21.6 | 4.2                    | 20.8                | 26.0 | 21.6  | 25.4  | 22.8  | 25.0  |
| 7  | 28.2               | 14.6 | 22.0 | 27.8 | 20.8 | 21.6 | 5.2                    | 20.4                | 26.8 | 21.6  | 26.4  | 22.4  | 25.2  |
| 8  | 29.4               | 18.6 | 21.6 | 28.0 | 20.8 | 21.8 | 4.9                    | 21.0                | 26.8 | 21.6  | 26.0  | 22.4  | 25.4  |
| 9  | 30.0               | 20.0 | 23.0 | 27.8 | 21.6 | 21.6 | 4.8                    | 21.0                | 27.0 | 22.4  | 26.4  | 22.8  | 26.0  |
| 10   | 30.0               | 19.8 | 22.8 | 27.0 | 20.8 | 21.4 | 4.9                    | 21.2                | 27.0 | 22.4  | 26.8  | 23.0  | 26.0  |
| 11   | 28.2               | 19.6 | 22.0 | 27.8 | 21.0 | 21.4 | 4.4                    | 21.4                | 27.4 | 22.8  | 26.8  | 23.2  | 26.2  |
| 12   | 28.8               | 19.0 | 21.4 | 26.0 | 20.6 | 21.6 | 4.6                    | 21.6                | 27.8 | 22.2  | 26.6  | 23.0  | 26.0  |
| 13   | 27.0               | 19.4 | 21.8 | 27.8 | 20.8 | 21.8 | 4.0                    | 21.0                | 27.0 | 21.8  | 26.8  | 22.4  | 26.2  |
| 14   | 28.8               | 19.6 | 22.8 | 27.0 | 21.6 | 21.6 | 4.5                    | 21.6                | 27.2 | 22.4  | 26.6  | 23.6  | 26.4  |
| 15   | 28.0               | 18.6 | 21.6 | 27.2 | 20.2 | 20.2 | 4.5                    | 21.4                | 27.6 | 22.4  | 26.2  | 23.8  | 26.0  |
| 16   | 28.4               | 18.6 | 21.8 | 27.0 | 20.2 | 21.4 | 4.6                    | 21.6                | 27.0 | 22.4  | 26.0  | 23.6  | 25.2  |
| 17   | 28.4               | 17.8 | 21.6 | 27.2 | 21.0 | 21.0 | 4.7                    | 21.2                | 27.2 | 22.2  | 26.8  | 23.6  | 25.0  |
| 18   | 28.6               | 18.6 | 22.0 | 28.0 | 21.2 | 22.0 | 4.7                    | 21.4                | 28.0 | 22.8  | 27.2  | 23.6  | 26.4  |
| 19   | 28.4               | 18.2 | 22.2 | 28.4 | 21.4 | 21.6 | 4.7                    | 21.6                | 29.4 | 22.6  | 27.8  | 23.4  | 27.0  |
| 20   | 29.4               | 19.8 | 22.4 | 28.0 | 20.8 | 21.6 | 4.7                    | 21.4                | 27.8 | 22.4  | 26.6  | 23.4  | 26.0  |
| 21   | 28.6               | 19.6 | 22.4 | 26.8 | 21.2 | 21.6 | 4.5                    | 21.6                | 27.6 | 22.4  | 26.6  | 23.8  | 26.2  |
| 22   | 27.2               | 17.8 | 21.8 | 26.0 | 20.4 | 21.4 | 4.4                    | 20.8                | 26.8 | 21.8  | 26.4  | 22.8  | 26.0  |
| 23   | 26.8               | 19.0 | 22.0 | 27.8 | 20.8 | 21.6 | 4.0                    | 20.6                | 28.6 | 22.0  | 27.0  | 22.8  | 26.6  |
| 24   | 29.0               | 18.8 | 21.6 | 27.6 | 20.0 | 21.4 | 4.7                    | 20.8                | 29.4 | 21.4  | 28.0  | 22.4  | 27.4  |
| 25   | 28.2               | 18.6 | 21.4 | 27.4 | 20.6 | 21.8 | 4.5                    | 20.4                | 29.2 | 21.6  | 28.0  | 22.6  | 27.6  |
| 26   | 27.8               | 19.0 | 23.0 | 27.8 | 21.4 | 21.4 | 4.3                    | 21.4                | 29.0 | 22.0  | 28.2  | 22.6  | 27.0  |
| 27   | 29.6               | 19.4 | 22.4 | 27.6 | 20.8 | 21.6 | 4.8                    | 21.0                | 28.2 | 22.0  | 27.6  | 22.4  | 27.0  |
| 28   | 28.6               | 19.4 | 21.4 | 26.6 | 20.6 | 21.0 | 4.5                    | 20.4                | 27.0 | 21.4  | 26.4  | 22.0  | 26.0  |
| 29   | 26.8               | 17.8 | 20.4 | 26.6 | 19.8 | 20.8 | 4.2                    | 20.8                | 26.8 | 21.4  | 26.0  | 21.8  | 25.8  |
| 30   | 26.8               | 17.4 | 20.6 | 26.4 | 19.0 | 20.6 | 4.3                    | 20.6                | 26.6 | 21.0  | 26.2  | 22.0  | 26.0  |
| 31   | 26.8               | 17.4 | 21.4 | 27.6 | 20.4 | 21.0 | 4.3                    | 21.4                | 29.0 | 22.0  | 27.6  | 22.8  | 26.8  |
| Mean   | 28.4               | 18.8 | 22.0 | 27.4 | 20.7 | 21.4 | 3.2                    | 21.2                | 27.7 | 22.1  | 26.8  | 23.0  | 26.2  |
| Std. Week No: 32 (August 6- August 12) No. of Days: 7    |                    |      |      |      |      |      |                        |                     |      |       |       |       |       |
| Mean   | 28.8               | 18.7 | 22.2 | 27.4 | 20.9 | 21.6 | 4.7                    | 21.1                | 27.0 | 22.1  | 26.3  | 22.8  | 25.7  |
| Std. Week No: 33 (August 13 -August 19) No. of Days: 7   |                    |      |      |      |      |      |                        |                     |      |       |       |       |       |
| Mean   | 28.2               | 18.7 | 22.0 | 27.5 | 20.9 | 21.4 | 4.5                    | 21.4                | 27.6 | 22.4  | 26.8  | 23.4  | 26.0  |
| Std. Week No: 34 ( August 20 - August 26) No. of Days: 7 |                    |      |      |      |      |      |                        |                     |      |       |       |       |       |
| Mean   | 28.1               | 18.9 | 22.1 | 27.3 | 20.7 | 21.5 | 4.4                    | 21.0                | 28.3 | 21.9  | 27.3  | 22.9  | 26.7  |
| Std. Week No:35 (August 27 - Sept. 02 ) No. of Days: 7   |                    |      |      |      |      |      |                        |                     |      |       |       |       |       |
| Mean   | 27.7               | 18.3 | 21.2 | 27.0 | 20.1 | 21.0 | 4.4                    | 20.8                | 27.5 | 21.6  | 26.8  | 22.2  | 26.3  |

**PART- II**

Time of Observation:

I--> 0700 Hours LMT = 0720 IST

II--> 1400 Hours LMT = 1420 IST

Month : August

Year : 2021

| 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                 | 0700       |               |                | 1400 |
|   | 0700              | 1400        | 0700        | 1400      | 0700           | 0700      | 1400      |            |                      |            |               |                |      |
|   | LMT               | LMT         | LMT         | LMT       | LMT            | LMT       | LMT       |            | LMT                  | LMT        |               |                |      |
| 1   | 16.5              | 20.2        | 84          | 51        | 7.5            | 230       | 230       | 6.2        | 4                    | 3          | 0.0           | 4.2            |      |
| 2   | 17.3              | 19.4        | 83          | 60        | 7.8            | 230       | 230       | 8.3        | 4                    | 3          | 0.0           | 4.0            |      |
| 3   | 17.4              | 19.8        | 85          | 54        | 8.4            | 270       | 230       | 6.5        | 3                    | 3          | 0.0           | 4.4            |      |
| 4   | 18.6              | 19.8        | 91          | 53        | 8.4            | 230       | 230       | 7.6        | 4                    | 4          | 0.8           | 4.0            |      |
| 5   | 17.5              | 19.4        | 86          | 60        | 7.2            | 230       | 230       | 1.9        | 6                    | 3          | 9.6           | 3.2            |      |
| 6   | 17.8              | 19.7        | 86          | 60        | 6.6            | 230       | 230       | 3.5        | 6                    | 3          | 3.4           | 3.0            |      |
| 7   | 17.8              | 19.8        | 90          | 57        | 5.5            | 230       | 230       | 6.3        | 4                    | 3          | 2.2           | 2.8            |      |
| 8   | 18.0              | 20.1        | 93          | 57        | 5.0            | 230       | 230       | 9.2        | 6                    | 4          | 8.0           | 2.4            |      |
| 9   | 18.6              | 19.3        | 88          | 57        | 4.9            | 230       | 230       | 7.5        | 6                    | 4          | 0.0           | 2.6            |      |
| 10  | 17.3              | 19.4        | 83          | 60        | 5.0            | 230       | 230       | 7.8        | 6                    | 4          | 0.0           | 3.4            |      |
| 11  | 18.1              | 19.3        | 91          | 56        | 5.0            | 320       | 320       | 3.4        | 4                    | 4          | 0.0           | 3.0            |      |
| 12  | 17.8              | 19.9        | 93          | 67        | 6.5            | 270       | 270       | 7.4        | 4                    | 4          | 0.0           | 3.4            |      |
| 13  | 17.9              | 20.1        | 91          | 58        | 7.1            | 270       | 270       | 1.6        | 6                    | 3          | 0.8           | 2.8            |      |
| 14  | 18.7              | 19.3        | 90          | 61        | 6.3            | 270       | 230       | 5.5        | 2                    | 3          | 0.0           | 3.8            |      |
| 15  | 17.0              | 17.8        | 88          | 51        | 7.2            | 230       | 230       | 4.5        | 6                    | 6          | 1.4           | 3.6            |      |
| 16  | 16.9              | 19.8        | 86          | 60        | 7.6            | 230       | 230       | 2.2        | 8                    | 6          | 0.0           | 4.0            |      |
| 17  | 18.3              | 18.7        | 95          | 56        | 5.3            | 230       | 230       | 1.0        | 8                    | 6          | 3.2           | 3.6            |      |
| 18  | 18.4              | 20.3        | 93          | 58        | 6.2            | 230       | 230       | 2.0        | 6                    | 4          | 0.0           | 3.6            |      |
| 19  | 18.7              | 19.5        | 93          | 54        | 7.2            | 230       | 230       | 8.5        | 4                    | 3          | 0.0           | 3.8            |      |
| 20  | 17.5              | 19.8        | 86          | 56        | 5.7            | 230       | 230       | 8.0        | 6                    | 4          | 0.4           | 2.8            |      |
| 21  | 18.2              | 19.6        | 90          | 62        | 2.5            | 270       | 230       | 3.9        | 6                    | 4          | 0.0           | 4.0            |      |
| 24  | 17.2              | 19.7        | 88          | 66        | 8.2            | 230       | 270       | 0.6        | 6                    | 4          | 8.8           | 2.8            |      |
| 23  | 17.8              | 19.8        | 90          | 57        | 2.5            | 270       | 140       | 3.0        | 6                    | 4          | 1.0           | 3.0            |      |
| 24  | 16.7              | 19.9        | 86          | 57        | 3.0            | 45        | 45        | 5.8        | 4                    | 4          | 24.6          | 2.6            |      |
| 25  | 17.8              | 20.3        | 93          | 60        | 3.6            | 140       | 230       | 8.3        | 8                    | 3          | 5.2           | 3.0            |      |
| 26  | 18.2              | 19.1        | 87          | 56        | 3.4            | 230       | 230       | 4.0        | 2                    | 3          | 0.0           | 3.8            |      |
| 27  | 17.5              | 19.8        | 86          | 58        | 3.5            | 230       | 270       | 4.8        | 8                    | 6          | 7.0           | 3.6            |      |
| 28  | 17.8              | 18.9        | 93          | 60        | 4.4            | 270       | 270       | 2.2        | 8                    | 4          | 32.8          | 2.6            |      |
| 29  | 17.0              | 19.0        | 95          | 58        | 7.6            | 270       | 270       | 1.4        | 8                    | 3          | 3.8           | 3.0            |      |
| 30  | 15.6              | 19.1        | 86          | 58        | 7.9            | 270       | 270       | 0.8        | 4                    | 6          | 0.8           | 2.8            |      |
| 31  | 17.4              | 19.0        | 91          | 54        | 5.2            | 270       | 270       | 3.1        | 6                    | 4          | 1.6           | 2.8            |      |
| <b>Mean</b>   | <b>17.6</b>       | <b>19.5</b> | <b>89</b>   | <b>58</b> | <b>5.9</b>     | <b>..</b> | <b>..</b> | <b>4.7</b> | <b>5</b>             | <b>4</b>   | <b>115.4</b>  | <b>3.3</b>     |      |
| <b>Std. Week No: 32 (August 6 - August 12) No. of Days: 7</b>   |                   |             |             |           |                |           |           |            |                      |            |               |                |      |
| <b>Mean</b>   | <b>17.9</b>       | <b>19.7</b> | <b>89</b>   | <b>59</b> | <b>5.5</b>     | <b>..</b> | <b>..</b> | <b>6.4</b> | <b>5.1</b>           | <b>3.7</b> | <b>13.6</b>   | <b>2.9</b>     |      |
| <b>Std. Week No: 33 (August 13 - August 19) No. of Days: 7</b>  |                   |             |             |           |                |           |           |            |                      |            |               |                |      |
| <b>Mean</b>   | <b>18.0</b>       | <b>19.3</b> | <b>91</b>   | <b>57</b> | <b>6.7</b>     | <b>..</b> | <b>..</b> | <b>3.6</b> | <b>5.7</b>           | <b>4.4</b> | <b>5.4</b>    | <b>3.6</b>     |      |
| <b>Std. Week No: 34 ( August 20 - August 26) No. of Days: 7</b> |                   |             |             |           |                |           |           |            |                      |            |               |                |      |
| <b>Mean</b>   | <b>17.6</b>       | <b>19.7</b> | <b>88</b>   | <b>59</b> | <b>4.1</b>     | <b>..</b> | <b>..</b> | <b>4.8</b> | <b>5.4</b>           | <b>3.7</b> | <b>40.0</b>   | <b>3.1</b>     |      |
| <b>Std. Week No: 35 ( August 27 - Sept.02 ) No. of Days: 7</b>  |                   |             |             |           |                |           |           |            |                      |            |               |                |      |
| <b>Mean</b>   | <b>17.1</b>       | <b>19.1</b> | <b>90</b>   | <b>58</b> | <b>5.7</b>     | <b>..</b> | <b>..</b> | <b>2.5</b> | <b>6.8</b>           | <b>4.6</b> | <b>46.0</b>   | <b>3.0</b>     |      |

Note: Rainfall is in total