

**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 : July**  
**Year : 2023**

Date	Air Temperature °C						PET (mm)	Soil Temperature °C					
	Max.	Min.	Dry	Dry	Wet	Wet		5 cm	5 cm	10cm	10cm	20cm	20cm
	0700	1400	0700	1400	0700	1400	0830	0700	1400	0700	1400	0700	1400
	LMT	LMT	LMT	LMT	LMT	LMT	IST	LMT	LMT	LMT	LMT	LMT	LMT
1	29.8	20.6	22.8	28.0	20.4	21.0	4.6	24.0	30.0	25.0	29.6	25.2	29.0
2	29.8	21.4	22.6	27.0	20.8	20.6	4.5	21.0	28.0	22.4	26.8	25.0	23.0
3	28.2	19.0	22.0	29.0	20.0	20.6	4.5	22.2	35.0	23.0	32.4	23.2	31.4
4	30.2	20.0	22.2	29.2	19.4	21.0	4.9	22.0	32.0	23.2	30.0	23.6	29.8
5	31.0	19.4	22.4	28.0	18.0	20.0	5.2	21.0	33.0	22.4	32.0	22.6	30.0
6	29.0	19.2	22.0	27.6	21.0	20.2	4.7	20.0	30.0	22.0	28.6	23.4	26.4
7	30.0	20.2	23.2	28.8	20.0	21.4	4.8	23.0	29.6	24.2	28.0	25.0	26.2
8	30.4	19.8	22.2	25.2	19.6	20.0	5.0	22.0	27.0	22.8	28.2	23.0	29.0
9	29.2	19.0	22.4	28.6	21.2	21.0	4.8	21.0	28.0	22.4	29.8	23.0	31.2
10	30.0	20.2	23.0	27.0	20.2	21.8	4.8	23.0	29.0	24.0	28.4	25.2	27.0
11	28.0	20.0	22.4	26.8	21.0	21.8	4.2	21.0	28.8	23.0	28.4	24.0	27.0
12	27.8	19.0	22.0	26.8	19.0	22.4	4.3	20.0	31.0	21.4	30.0	22.0	29.6
13	28.2	19.8	23.0	26.8	20.0	22.0	4.3	21.0	30.0	22.4	29.6	23.0	28.0
14	27.0	19.2	22.0	27.4	19.2	22.6	4.1	20.0	29.0	22.4	27.0	22.8	26.0
15	28.8	20.4	21.8	28.2	20.4	23.0	4.4	20.8	30.0	22.6	27.0	23.0	26.0
16	29.8	20.6	22.6	28.0	20.4	23.0	4.6	21.0	30.8	23.8	29.0	24.0	28.4
17	29.4	20.8	22.0	27.8	20.8	23.2	4.5	22.0	28.0	23.0	27.2	23.8	27.0
18	28.0	20.0	22.0	27.6	19.8	22.8	4.2	21.0	31.0	22.0	29.4	22.8	28.8
19	29.0	20.2	23.2	26.0	19.8	21.4	4.5	22.0	30.0	23.0	29.4	23.8	29.0
20	28.4	19.8	23.0	27.2	20.0	21.8	4.4	21.0	29.8	22.4	29.2	22.8	28.0
21	29.2	20.0	22.0	27.8	19.2	22.4	4.6	21.2	30.0	21.8	29.0	22.0	28.8
22	29.0	20.2	23.0	28.0	21.0	22.0	4.5	23.0	31.0	23.8	30.0	24.0	28.4
23	28.4	20.0	22.4	26.8	20.0	22.0	4.3	23.0	26.0	23.2	28.2	23.8	28.8
24	27.0	19.2	21.0	25.6	19.0	22.4	4.1	21.0	25.0	22.2	24.6	22.6	24.0
25	26.2	18.0	21.0	24.0	19.2	20.4	4.1	20.0	26.0	21.0	25.0	21.6	24.8
26	25.4	18.0	20.0	22.8	19.0	20.4	3.8	20.0	24.0	20.6	23.6	21.0	23.2
27	24.0	18.2	20.2	24.8	19.0	21.4	3.3	20.2	25.0	20.8	24.0	21.0	23.2
28	25.0	18.0	21.0	26.0	18.2	23.2	3.7	21.0	24.0	22.2	25.0	23.0	25.2
29	26.8	19.0	22.8	26.8	20.8	19.0	4.1	22.0	23.0	23.2	24.8	23.4	25.0
30	26.8	19.2	21.0	27.8	19.0	22.4	4.0	21.0	24.5	22.0	25.0	23.0	25.8
31	28.2	19.8	23.0	28.2	21.0	22.6	4.3	23.0	31.2	23.8	30.0	24.0	29.8
<b>Mean</b>	<b>28.3</b>	<b>19.6</b>	<b>22.1</b>	<b>27.1</b>	<b>19.9</b>	<b>21.6</b>	<b>4.4</b>	<b>21.4</b>	<b>28.7</b>	<b>22.6</b>	<b>28.0</b>	<b>23.2</b>	<b>27.3</b>
<b>Weekly mean</b>													
<b>Std. Week No:27 (July 2 - July 8) No. of Days: 7</b>													
<b>Mean</b>	<b>29.8</b>	<b>19.9</b>	<b>22.4</b>	<b>27.8</b>	<b>19.8</b>	<b>20.5</b>	<b>4.8</b>	<b>21.6</b>	<b>30.7</b>	<b>22.9</b>	<b>29.4</b>	<b>23.7</b>	<b>28.0</b>
<b>Std. Week No:28 (July 9 - July 15) No. of Days: 7</b>													
<b>Mean</b>	<b>28.4</b>	<b>19.7</b>	<b>22.4</b>	<b>27.4</b>	<b>20.1</b>	<b>22.1</b>	<b>4.4</b>	<b>21.0</b>	<b>29.4</b>	<b>22.6</b>	<b>28.6</b>	<b>23.3</b>	<b>27.8</b>
<b>Std. Week No:29 (July 16 - July 22) No. of Days: 7</b>													
<b>Mean</b>	<b>29.0</b>	<b>20.2</b>	<b>22.5</b>	<b>27.5</b>	<b>20.1</b>	<b>22.4</b>	<b>4.5</b>	<b>21.6</b>	<b>30.1</b>	<b>22.8</b>	<b>29.0</b>	<b>23.3</b>	<b>28.3</b>
<b>Std. Week No:30 ( July 23 - July 29) No. of Days: 7</b>													
<b>Mean</b>	<b>26.1</b>	<b>18.6</b>	<b>21.2</b>	<b>25.3</b>	<b>19.3</b>	<b>21.3</b>	<b>3.9</b>	<b>21.0</b>	<b>24.7</b>	<b>21.9</b>	<b>25.0</b>	<b>22.3</b>	<b>24.9</b>
<b>Std. Week No:31 ( July 30 - August 5) No. of Days: 7</b>													
<b>Mean</b>	<b>28.4</b>	<b>19.0</b>	<b>21.0</b>	<b>27.7</b>	<b>20.1</b>	<b>20.5</b>	<b>3.4</b>	<b>20.6</b>	<b>31.5</b>	<b>21.7</b>	<b>28.9</b>	<b>21.3</b>	<b>28.4</b>

**PART- II**

**Time of Observation :**

**I---> 0700 Hours LMT = 0720 IST**

**II---> 1400 Hours LMT = 1420 IST**

**Month : July**

**Year : 2023**

Date	Humidity				Mean Wind			Bright SSH	Cloud Amount (Octas)		Rainfall (mm)	Pan Evap. (mm)
	Vap. (mm)	Pr. Hg.	Rel. Hum. %		Speed (Km/hr)	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	16.6	14.8	80	52	8.0	230	270	6.8	2	2	0.0	6.0
2	17.4	14.7	85	55	6.6	230	320	7.7	4	2	0.0	5.4
3	16.4	13.5	83	45	5.0	230	230	0.0	6	6	0.8	4.2
4	15.3	14.1	76	46	8.4	230	230	5.6	4	4	2.2	3.8
5	13.1	13.1	64	46	9.5	230	230	2.8	4	4	1.0	3.0
6	18.1	13.7	91	49	9.2	230	230	1.4	4	4	0.0	1.8
7	15.8	15.0	74	51	9.3	230	320	3.0	4	4	0.0	3.8
8	15.7	14.7	78	61	6.8	230	230	0.0	4	4	3.6	2.6
9	18.2	14.4	90	49	5.4	230	230	0.5	4	4	3.6	2.0
10	16.2	16.7	77	62	4.0	230	230	1.2	4	6	0.8	1.8
11	17.9	16.8	88	64	3.3	230	320	1.0	4	4	15.8	1.6
12	14.8	17.9	75	68	4.6	230	230	1.1	4	4	1.8	4.0
13	15.9	17.2	75	65	3.6	230	230	4.8	6	6	0.0	4.2
14	15.1	17.9	76	65	6.7	230	320	4.6	6	6	14.8	3.2
15	17.2	18.2	88	63	3.9	320	230	4.3	2	4	9.2	2.8
16	16.8	18.3	81	65	4.7	320	230	8.9	4	4	0.0	5.0
17	17.8	18.8	90	67	4.3	230	230	2.8	4	4	1.4	3.6
18	16.1	18.1	81	66	6.1	230	230	4.2	4	6	1.2	3.2
19	15.4	16.6	72	66	9.9	230	320	6.8	4	4	0.0	3.8
20	15.9	16.6	75	61	9.1	230	230	0.5	6	4	0.8	3.6
21	15.1	17.3	76	62	11.3	230	230	2.9	4	4	0.0	4.6
22	17.5	16.5	83	58	10.2	230	230	3.6	6	4	0.0	3.8
23	16.2	17.2	80	65	7.7	230	230	0.6	6	6	1.8	3.4
24	15.4	18.5	82	75	6.8	230	230	0.3	4	6	12.4	2.2
25	15.7	16.0	84	71	7.3	230	320	0.4	6	4	15.0	1.8
26	15.9	16.6	91	80	6.3	230	320	0.0	6	6	10.8	1.4
27	15.8	17.2	89	73	6.7	230	230	0.0	6	6	15.4	1.8
28	14.1	19.8	76	78	5.8	230	230	2.0	4	4	0.0	2.6
29	17.3	12.2	83	46	7.3	230	230	5.8	4	4	1.0	3.8
30	15.4	17.3	82	62	7.4	320	230	3.5	4	4	1.8	3.8
31	17.5	17.5	83	61	8.3	230	230	8.1	4	2	0.0	4.4
<b>Mean</b>	<b>16.2</b>	<b>16.4</b>	<b>81</b>	<b>61</b>	<b>6.9</b>	<b>....</b>	<b>....</b>	<b>3.1</b>	<b>4</b>	<b>4</b>	<b>115.2</b>	<b>3.3</b>
<b>Weekly mean</b>												
<b>Std. Week No:27 (July 2 - July 8) No. of Days: 7</b>												
<b>Mean</b>	<b>16.0</b>	<b>14.1</b>	<b>79</b>	<b>50</b>	<b>7.8</b>	<b>...</b>	<b>...</b>	<b>2.9</b>	<b>4</b>	<b>4</b>	<b>7.6</b>	<b>3.5</b>
<b>Std. Week No:28 (July 9 - July 15) No. of Days: 7</b>												
<b>Mean</b>	<b>16.5</b>	<b>17.0</b>	<b>81</b>	<b>62</b>	<b>4.5</b>	<b>...</b>	<b>...</b>	<b>2.5</b>	<b>4</b>	<b>5</b>	<b>46.0</b>	<b>2.8</b>
<b>Std. Week No:29 (July 16 - July 22) No. of Days: 7</b>												
<b>Mean</b>	<b>16.4</b>	<b>17.5</b>	<b>80</b>	<b>63</b>	<b>7.9</b>	<b>...</b>	<b>...</b>	<b>4.2</b>	<b>5</b>	<b>4</b>	<b>3.4</b>	<b>3.9</b>
<b>Std. Week No:30 (July 23 - July 29) No. of Days: 7</b>												
<b>Mean</b>	<b>15.8</b>	<b>16.8</b>	<b>84</b>	<b>70</b>	<b>6.8</b>	<b>...</b>	<b>...</b>	<b>1.3</b>	<b>5</b>	<b>5</b>	<b>56.4</b>	<b>2.4</b>
<b>Std. Week No:31 (July 30 - August 5) No. of Days: 7</b>												
<b>Mean</b>	<b>17.2</b>	<b>18.3</b>	<b>91</b>	<b>43</b>	<b>8.4</b>	<b>..</b>	<b>..</b>	<b>4.9</b>	<b>2</b>	<b>2</b>	<b>13.4</b>	<b>4.2</b>

**Note: Rainfall is in Total**