

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 : 2024

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
	LMT	LMT	LMT	LMT	LMT	LMT	IST	LMT	LMT	LMT	LMT	LMT	LMT
1	27.2	18.8	22.4	27.0	19.2	21.0	4.2	20.0	29.0	21.0	28.0	22.2	27.2
2	28.0	18.0	22.2	28.2	20.6	22.6	4.6	20.2	30.0	20.8	29.7	21.6	29.0
3	29.2	18.0	22.8	27.2	21.0	21.2	4.9	20.0	30.0	21.0	29.4	21.8	29.0
4	30.0	18.6	22.8	28.2	21.4	22.0	5.1	21.2	28.0	21.8	27.0	22.0	26.2
5	29.0	18.2	22.2	29.0	20.0	22.0	4.8	20.0	30.0	21.2	29.4	21.8	29.0
6	29.8	18.0	23.2	28.4	22.0	21.0	5.1	20.0	29.8	21.2	29.0	23.0	28.0
7	28.8	18.2	22.8	28.8	21.4	20.0	4.8	20.2	30.2	21.2	29.0	22.4	28.2
8	29.4	18.0	22.4	26.4	20.0	21.6	5.0	20.0	28.0	21.0	26.0	22.6	25.2
9	27.0	17.2	22.8	25.6	21.6	20.6	4.4	20.0	26.0	20.8	25.4	21.0	24.2
10	27.2	18.0	22.0	29.6	20.4	23.6	4.4	21.0	30.0	22.6	29.0	23.0	28.2
11	30.0	19.2	22.0	28.0	20.8	23.2	5.0	20.2	30.2	20.8	29.4	21.0	28.6
12	28.4	19.0	23.0	29.6	22.0	23.0	4.5	23.4	29.8	25.0	29.0	25.4	28.2
13	30.0	19.2	23.0	27.0	21.0	22.2	5.0	21.0	28.0	22.4	27.6	22.8	27.0
14	29.2	18.0	23.0	27.2	22.0	21.2	4.9	20.2	28.2	21.6	27.0	22.0	26.8
15	28.0	18.0	23.0	24.8	21.8	20.4	4.6	20.0	25.0	21.2	24.8	21.8	24.0
16	25.0	19.4	22.0	24.0	20.6	20.0	3.4	19.8	26.8	20.6	25.0	21.0	24.8
17	25.4	18.0	23.0	26.8	21.4	21.2	3.8	19.0	27.2	20.2	26.2	20.8	25.0
18	27.2	18.2	22.8	22.6	20.8	20.0	4.3	20.0	26.0	20.2	24.8	21.0	24.0
19	25.0	18.4	21.0	24.2	20.0	22.0	3.6	21.0	26.0	22.2	25.0	22.6	24.2
20	26.2	18.0	22.0	24.8	21.4	22.4	4.1	20.0	25.2	21.2	24.0	21.8	23.8
21	27.2	18.8	23.0	24.0	22.2	21.2	4.2	20.2	26.2	21.6	25.0	22.0	24.0
22	27.0	19.6	21.0	24.8	20.0	21.6	4.0	20.0	26.0	21.6	25.0	23.0	24.2
23	26.8	18.0	22.0	25.8	21.4	22.8	4.2	20.2	27.0	21.6	26.2	22.0	26.0
24	27.2	18.2	21.6	25.8	20.8	22.4	4.3	20.6	27.0	21.0	26.2	21.8	26.0
25	26.2	18.0	21.0	24.0	20.4	21.4	4.1	20.0	25.2	21.2	24.0	22.2	23.6
26	27.0	18.2	21.0	23.4	20.6	21.0	4.3	20.2	24.0	21.6	23.8	22.0	23.0
27	25.8	18.0	21.0	26.8	20.0	21.8	4.0	20.0	25.0	20.8	24.2	21.0	24.0
28	28.2	19.0	22.0	26.8	21.6	21.2	4.5	20.0	26.2	21.2	25.0	22.6	24.8
29	28.0	19.2	23.0	28.0	21.8	23.6	4.4	21.2	28.0	22.0	27.4	23.6	27.0
30	29.0	21.0	22.0	28.0	20.6	22.6	4.3	22.6	26.0	22.8	25.4	24.0	25.0
31	29.2	20.0	21.0	27.8	20.0	21.6	4.6	20.0	26.2	21.2	25.0	22.2	24.2
Mean	27.8	18.5	22.2	26.5	20.9	21.7	4.4	20.4	27.4	21.4	26.5	22.2	25.9
Weekly mean													
Std. Week No:27 (July 2 - July 8) No. of Days: 7													
Mean	29.2	18.1	22.6	28.0	20.9	21.5	4.9	20.2	29.4	21.2	28.5	22.2	27.8
Std. Week No:28 (July 9 - July 15) No. of Days: 7													
Mean	28.5	18.4	22.7	27.4	21.4	22.0	4.7	20.8	28.2	22.1	27.5	22.4	26.7
Std. Week No:29 (July 16 - July 22) No. of Days: 7													
Mean	26.1	18.6	22.1	24.5	20.9	21.2	3.9	20.0	26.2	21.1	25.0	21.7	24.3
Std. Week No:30 (July 23 - July 29) No. of Days: 7													
Mean	27.0	18.4	21.7	25.8	20.9	22.0	4.2	20.3	26.1	21.3	25.3	22.2	24.9
Std. Week No:31 (July 30 - August 5) No. of Days: 7													
Mean	28.4	19.0	21.0	27.7	20.1	20.5	3.4	20.6	31.5	21.7	28.9	21.3	28.4

PART- II

Time of Observation :

I---> 0700 Hours LMT = 0720 IST

II---> 1400 Hours LMT = 1420 IST

Month : July

Year : 2024

Date	Humidity				Mean Wind			Bright SSH	Cloud Amount (Octas)		Rainfall (mm)	Pan Evap. (mm)		
	Vap. Pr.	Rel. Hum.	Speed		Direction		0700		0700	1400			0830	0830
	(mm) Hg.	%	(Km/hr)											
	0700	1400	0700	1400	0700	0700								
LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT	IST	IST			
1	14.9	15.3	73	57	7.7	180	230	0.0	8	6	0.0	2.0		
2	17.3	17.5	86	61	8.0	270	315	1.9	4	4	0.0	2.2		
3	17.7	15.6	85	58	7.9	270	270	4.8	4	2	0.0	3.2		
4	18.3	16.4	88	57	6.7	270	270	6.3	4	4	13.0	3.4		
5	16.3	15.9	81	53	6.5	270	230	1.8	6	4	0.0	5.2		
6	19.2	14.6	90	50	8.1	270	270	4.6	6	6	1.0	4.6		
7	18.3	12.7	88	43	8.9	270	230	1.0	4	4	0.0	3.0		
8	16.2	16.7	80	65	6.4	270	270	4.6	4	6	1.4	4.2		
9	18.7	15.4	90	63	6.2	270	270	0.4	8	6	22.6	2.6		
10	17.1	18.5	86	60	5.5	270	315	0.8	6	4	0.0	4.2		
11	17.8	18.7	90	66	5.0	270	315	8.2	4	2	1.0	4.0		
12	19.3	17.4	91	56	6.0	270	315	5.4	4	4	0.0	4.8		
13	17.5	17.4	83	65	6.2	270	230	8.4	6	4	12.8	3.4		
14	19.3	15.6	91	58	8.2	270	230	2.8	6	6	0.0	4.4		
15	18.9	15.5	90	66	7.6	230	270	0.0	6	4	0.8	2.0		
16	17.4	15.3	88	68	8.1	270	270	0.0	8	4	6.0	3.0		
17	18.2	15.8	87	60	8.5	270	270	0.5	6	4	1.0	2.4		
18	17.3	16.1	83	78	8.3	270	270	1.4	6	6	0.0	2.8		
19	17.0	18.6	91	82	8.9	270	270	1.5	4	4	1.8	3.2		
20	18.8	19.0	95	81	8.4	270	270	0.2	6	4	4.0	2.4		
21	19.6	17.3	93	77	9.4	270	270	0.0	4	4	0.0	3.2		
22	17.0	17.6	91	75	8.7	270	315	0.2	4	4	4.6	2.8		
23	18.8	19.1	95	77	8.8	270	270	2.4	4	4	0.0	3.8		
24	18.0	18.4	93	74	8.3	270	270	0.5	4	4	0.6	2.6		
25	17.6	17.7	95	79	8.4	270	270	0.4	4	4	0.6	2.0		
26	18.0	17.3	96	80	8.6	270	270	1.2	6	6	10.0	2.2		
27	17.0	16.8	91	64	8.6	270	270	0.4	6	4	1.2	2.0		
28	19.1	15.8	96	60	10.7	270	270	2.2	4	4	0.0	4.2		
29	18.9	19.4	90	68	9.1	270	315	3.6	4	4	0.0	4.8		
30	17.4	17.6	88	62	9.0	230	270	5.9	6	4	0.4	4.0		
31	17.0	15.9	91	57	8.4	270	270	0.4	6	4	1.6	2.2		
Mean	17.9	16.8	89	65	7.9	2.3	5	4	84.4	3.3		
Weekly mean														
Std. Week No:27 (July 2 - July 8) No. of Days: 7														
Mean	17.6	15.6	85	55	7.5	3.6	5	4	15.4	3.7		
Std. Week No:28 (July 9 - July 15) No. of Days: 7														
Mean	18.4	16.9	89	62	6.4	3.7	6	4	37.2	3.6		
Std. Week No:29 (July 16 - July 22) No. of Days: 7														
Mean	17.9	17.1	90	75	8.6	0.5	5	4	17.4	2.8		
Std. Week No:30 (July 23 - July 29) No. of Days: 7														
Mean	18.2	17.8	94	72	8.9	1.5	5	4	12.4	3.1		
Std. Week No:31 (July 30 - August 5) No. of Days: 7														
Mean	17.2	18.3	91	43	8.4	4.9	2	2	13.4	4.2		

Note: Rainfall is in Total