

AICRP on Agrometeorology
University of Agricultural Sciences, GKVK, Bengaluru-560 065
Meteorological Observation at GKVK, Bengaluru

PART- I

District : Bengaluru
State : Karnataka

Lat : 13° 05' N
Long : 77° 34' E
Alt : 924 m (amsl)

Month : December
Year : 2023

Date	Air Temperature °C						PET (mm)	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		0830	0700	1400	0700	1400	0700	1400
	LMT	LMT	LMT	LMT	LMT	LMT	IST	LMT	LMT	LMT	LMT	LMT	LMT
1	27.0	18.0	21.0	25.4	19.0	21.2	3.4	20.2	27.0	20.4	26.4	21.0	25.0
2	27.2	18.4	21.0	26.0	19.8	19.2	3.4	20.0	29.0	21.2	28.2	22.0	27.6
3	26.8	18.0	22.0	25.8	19.8	19.8	3.3	20.0	28.2	20.2	27.0	21.0	26.8
4	26.0	18.2	22.6	23.2	20.8	20.4	3.1	20.2	27.0	20.6	26.2	21.2	25.0
5	25.2	18.0	22.0	25.0	20.4	22.0	3.0	20.2	26.0	21.0	25.2	22.2	25.0
6	27.4	18.0	22.4	28.2	21.0	22.2	3.5	21.0	30.0	22.6	29.2	23.0	28.0
7	29.2	18.6	22.2	28.6	21.0	22.2	3.8	20.0	30.2	21.2	29.0	22.0	28.2
8	30.0	18.8	23.2	26.8	22.0	21.8	3.9	21.0	30.2	22.0	29.2	23.0	28.4
9	29.8	19.0	23.0	26.8	21.8	21.8	3.9	20.0	30.4	21.0	29.0	21.8	28.2
10	29.4	18.2	22.0	27.0	19.8	22.4	3.9	21.2	31.2	22.6	30.2	23.0	30.0
11	29.2	19.2	21.8	27.8	18.8	22.2	3.7	22.0	31.2	23.6	30.2	24.0	29.6
12	29.0	18.4	23.0	26.0	21.8	21.4	3.7	21.0	30.2	22.6	29.8	23.0	29.0
13	30.2	19.0	23.0	28.2	21.4	22.2	3.9	22.2	31.2	24.0	30.2	25.2	29.0
14	29.0	18.2	22.2	25.4	21.0	19.6	3.8	22.0	29.2	23.0	27.6	24.0	27.0
15	27.8	18.0	22.0	24.8	21.2	20.2	3.5	21.0	29.6	22.2	28.2	23.4	28.0
16	27.0	18.0	22.0	26.0	20.2	21.4	3.3	20.0	29.0	21.2	28.2	21.6	28.0
17	26.8	18.0	21.0	25.6	19.0	18.0	3.3	20.2	28.8	21.0	28.0	21.8	27.2
18	26.0	18.2	21.0	24.6	18.8	19.8	3.1	20.0	28.0	21.0	27.8	21.8	27.0
19	25.2	17.0	19.2	26.0	17.8	19.8	3.1	20.2	28.0	21.0	27.4	21.6	27.0
20	27.0	17.2	19.2	26.2	17.2	20.2	3.5	20.0	28.0	21.2	27.2	21.6	27.0
21	26.8	18.0	22.4	25.8	17.0	21.0	3.3	21.0	28.0	21.6	27.0	21.8	26.8
22	28.0	17.2	22.4	27.4	21.0	20.6	3.7	20.0	29.0	21.2	27.2	22.0	26.0
23	28.2	18.0	19.2	28.0	17.2	21.4	3.6	21.0	20.2	22.0	29.0	23.0	28.8
24	29.2	17.0	22.8	28.0	21.0	21.0	4.0	22.0	29.0	22.4	28.2	22.6	28.0
25	28.2	18.0	22.2	26.2	21.0	20.2	3.6	21.0	30.0	22.0	29.2	23.0	29.0
26	30.0	18.2	18.6	28.0	16.2	20.2	4.0	20.0	29.0	21.2	27.4	22.2	27.0
27	29.8	18.4	19.8	27.4	18.2	20.2	3.9	20.2	29.8	22.0	28.6	23.6	28.0
28	30.2	18.0	20.0	27.0	18.2	20.6	4.1	21.0	30.0	22.6	29.0	23.0	28.6
29	28.4	18.2	19.8	25.4	18.8	20.2	3.6	22.0	29.0	22.6	27.4	23.0	27.0
30	27.2	18.2	19.0	26.2	17.4	20.2	3.4	20.0	28.0	21.2	27.2	21.4	27.0
31	29.0	18.4	19.2	27.0	17.4	20.0	3.8	21.0	30.2	22.2	29.6	23.0	29.0
Mean	28.1	18.1	21.3	26.4	19.5	20.8	3.6	20.7	28.9	21.8	28.2	22.5	27.6
Weekly mean													
Std. Week No: 49 (December 3 - December 9) No. of Days: 7													
Mean	27.8	18.4	22.5	26.3	21.0	21.5	3.5	20.3	28.9	21.2	27.8	22.0	27.1
Std. Week No: 50 (December 10 - December 16) No. of Days: 7													
Mean	28.8	18.4	22.3	26.5	20.6	21.3	3.7	21.3	30.2	22.7	29.2	23.5	28.7
Std. Week No: 51 (December 17 - December 23) No. of Days: 7													
Mean	26.9	17.7	20.6	26.2	18.3	20.1	3.4	20.3	27.1	21.3	27.7	21.9	27.1
Std. Week No: 52 (December 24 - December 31) No. of Days: 8													
Mean	29.0	18.1	20.2	26.9	18.5	20.3	3.8	20.9	29.4	22.0	28.3	22.7	28.0

PART- II

Time of Observation

I---> 0700 Hours LMT = 0720 IST

II---> 1400 Hours LMT = 1420 IST

Month : December

Year : 2023

Date	Humidity				Mean Wind			Bright SSH	Cloud Amount (Octas)		Rainfall (mm)	Pan Evap. (mm)
	Vap. Pr.		Rel. Hum.		Speed (Km/day)	Direction			0700	1400		
	(mm)	Hg.	%			0700	0700	1400			0700	1400	0830	0830
	0700	1400	0700	1400	LMT				LMT	LMT		
1	15.4	16.6	82	68	7.2	90	45	5.6	4	4	0.0	1.8
2	16.7	12.9	89	51	6.3	90	45	3.4	4	4	0.0	2.8
3	16.1	14.0	81	56	8.3	45	45	3.7	4	4	0.6	1.8
4	17.4	16.4	85	77	10.3	230	45	0.7	8	6	0.4	1.4
5	17.1	18.2	86	76	6.7	230	230	0.0	8	6	0.0	1.6
6	17.9	16.7	88	58	2.6	230	180	3.6	6	2	0.0	2.2
7	18.0	16.5	90	56	1.1	230	320	7.8	2	2	0.0	2.0
8	19.2	16.8	90	64	2.0	140	140	5.6	2	2	0.0	3.0
9	18.9	16.8	90	64	5.2	140	140	4.1	2	2	0.0	2.6
10	16.1	17.8	81	66	5.2	140	90	5.7	2	4	0.0	3.4
11	14.6	17.0	75	61	8.3	90	140	3.4	4	2	0.0	2.0
12	18.9	16.6	90	66	4.8	140	90	5.6	4	0	0.0	2.8
13	18.2	16.7	87	58	7.3	140	45	6.0	0	0	0.0	3.2
14	18.0	13.9	90	57	7.2	140	90	8.7	0	0	0.0	3.4
15	18.4	15.2	93	65	5.4	90	90	7.8	2	2	0.0	2.8
16	16.8	16.6	85	66	6.7	90	90	3.4	2	2	0.0	1.6
17	15.4	11.3	82	46	7.4	90	90	1.8	2	4	0.0	1.8
18	15.1	14.7	81	63	7.1	90	140	0.7	2	4	0.0	3.2
19	14.5	13.9	87	55	8.5	90	45	1.0	4	4	0.0	1.8
20	13.6	14.4	82	57	7.6	140	140	6.6	4	2	0.0	3.4
21	11.6	16.0	57	64	5.8	90	45	2.6	4	2	0.0	3.6
22	17.9	14.4	88	53	3.1	90	45	3.2	2	2	0.0	4.8
23	13.6	15.5	82	55	3.8	90	90	6.4	4	4	0.0	3.0
24	17.7	14.8	85	52	5.2	90	90	4.8	4	4	0.0	2.8
25	18.0	14.4	90	57	6.0	90	90	9.9	4	4	0.0	3.2
26	12.5	13.4	78	47	5.5	90	45	5.5	4	4	0.0	4.4
27	14.8	13.8	85	50	6.6	90	140	9.8	4	2	0.0	4.2
28	14.7	14.7	84	55	7.0	90	140	10.2	2	0	0.0	5.6
29	15.7	14.9	91	61	6.7	90	45	9.6	2	0	0.0	4.6
30	14.0	14.4	85	57	7.2	140	140	3.8	2	2	0.0	5.0
31	13.9	13.7	72	51	5.8	90	140	10.0	2	2	0.0	4.6
Mean	16.1	15.3	84	59	6.1	..	..	5.2	3	3	1.0	3.0
Weekly mean												
Std. Week No: 49 (December 3 - December 9) No. of Days: 7												
Mean	17.8	16.5	87.1	64.5	5.2	...	...	3.6	...	...	1.0	2.1
Std. Week No: 50 (December 10 - December 16) No. of Days: 7												
Mean	17.3	16.2	85.6	62.7	6.4	...	...	5.8	...	...	0.0	2.7
Std. Week No: 51 (December 17 - December 23) No. of Days: 7												
Mean	14.5	14.3	79.8	56.0	6.2	...	...	3.2	...	...	0.0	3.1
Std. Week No: 52 (December 24 - December 31) No. of Days: 8												
Mean	15.2	14.3	83.7	53.7	6.3	...	...	8.0	...	...	0.0	4.3

Note: Rainfall is in total