

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: 2024

Date	Air Temperature °C						PET (mm)	Soil Temperature °C					
	Max.	Min.	Dry	Dry	Wet	Wet		5 cm	5 cm	10 cm	10 cm	20 cm	20 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	26.0	18.2	21.8	22.2	20.8	20.0	3.1	20.2	26.0	20.8	25.8	21.0	25.0
2	25.0	17.2	20.8	22.2	20.0	21.2	3.0	20.0	24.0	21.0	23.0	21.8	22.4
3	23.8	17.2	22.2	24.0	21.8	21.8	2.8	19.0	26.0	19.8	25.0	20.0	24.2
4	25.2	18.0	22.4	25.0	21.8	21.4	3.0	20.0	26.2	21.2	25.4	21.8	24.8
5	26.4	19.6	21.4	27.0	20.4	22.0	3.0	21.4	27.0	22.0	26.2	22.8	26.0
6	27.2	19.0	23.0	27.2	21.8	21.6	3.3	20.0	29.0	21.2	28.0	22.2	27.2
7	28.2	19.2	23.0	28.0	21.8	21.2	3.5	21.0	30.0	22.2	29.2	23.0	29.0
8	29.2	19.4	22.4	29.2	21.0	22.0	3.7	21.2	30.2	22.4	29.2	23.0	28.0
9	30.0	19.8	23.0	28.0	21.4	22.0	3.8	22.0	30.0	23.2	29.4	23.8	29.0
10	29.0	18.2	20.2	27.0	19.0	20.6	3.8	21.0	30.2	22.4	29.0	23.4	28.2
11	27.2	18.0	21.6	22.0	20.6	20.0	3.4	20.0	27.0	21.2	26.8	22.4	26.0
12	25.2	17.2	21.0	21.0	20.6	20.2	3.1	20.2	24.0	21.4	23.8	22.0	22.0
13	25.0	18.0	20.0	23.0	19.4	20.2	2.9	19.2	26.8	20.2	26.0	21.0	25.2
14	26.0	18.2	21.2	25.2	20.2	21.8	3.1	20.6	28.2	21.0	28.0	22.2	27.2
15	26.8	18.4	22.2	26.8	20.2	21.2	3.2	20.0	29.0	21.2	28.2	22.2	28.0
16	28.0	18.8	23.2	25.4	21.2	21.6	3.5	21.0	28.0	22.0	26.0	23.4	25.0
17	28.2	18.2	22.8	26.4	20.6	21.2	3.6	20.0	27.0	21.2	26.8	23.2	26.0
18	27.0	16.8	21.8	24.8	20.2	21.4	3.5	21.0	27.0	21.8	26.4	22.4	26.0
19	27.2	17.0	22.8	27.0	21.4	20.6	3.5	20.0	26.2	21.2	26.0	21.8	25.0
20	27.8	16.8	22.8	26.2	20.2	21.8	3.7	20.0	28.0	21.0	27.4	22.6	27.0
21	28.0	17.2	23.2	27.2	21.6	22.2	3.7	21.0	30.2	21.8	29.0	22.4	28.0
22	28.2	18.0	23.2	27.2	22.2	21.8	3.6	21.2	27.2	22.4	26.0	23.0	25.0
23	28.0	17.8	20.2	26.0	19.4	20.6	3.6	20.2	28.0	21.2	27.8	22.4	27.0
24	27.2	17.0	23.0	26.2	20.6	19.4	3.5	21.2	28.0	22.4	27.0	23.0	26.6
25	27.8	17.8	21.2	25.2	20.0	20.2	3.6	20.0	28.2	21.2	27.2	21.8	26.0
26	26.2	16.8	22.0	23.0	20.0	21.0	3.3	20.2	26.0	21.0	25.4	22.0	25.0
27	25.0	17.0	21.0	24.0	20.0	20.2	3.0	20.0	28.0	20.2	27.0	21.2	26.2
28	25.2	17.4	22.0	24.8	20.8	21.0	3.0	21.2	29.0	21.8	28.2	22.4	27.0
29	25.8	18.0	22.0	26.0	21.2	21.2	3.1	20.0	28.2	21.2	27.2	23.0	27.0
30	27.4	17.0	19.0	25.2	17.4	21.0	3.6	21.6	27.0	22.4	26.2	23.4	26.0
31	26.0	16.2	21.0	27.8	20.2	19.6	3.4	20.0	29.0	21.2	28.0	21.8	27.0
Mean	26.9	17.9	21.9	25.5	20.6	21.0	3.3	20.5	27.7	21.5	26.9	22.3	26.2
Weekly mean													
Std. Week No: 49 (December 3 - December 9) No. of Days: 7													
Mean	27.1	18.9	22.5	26.9	21.4	21.7	3.3	20.7	28.3	21.7	27.5	22.4	26.9
Std. Week No: 50 (December 10 - December 16) No. of Days: 7													
Mean	26.7	18.1	21.3	24.3	20.2	20.8	3.3	20.3	27.6	21.3	26.8	22.4	25.9
Std. Week No: 51 (December 17 - December 23) No. of Days: 7													
Mean	27.8	17.4	22.4	26.4	20.8	21.4	3.6	20.5	27.7	21.5	27.1	22.5	26.3
Std. Week No: 52 (December 24 - December 31) No. of Days: 8													
Mean	26.3	17.2	21.4	25.3	20.0	20.5	3.3	20.5	27.9	21.4	27.0	22.3	26.4

PART- II

Time of Observation

Month: December

I---> 0700 Hours LMT = 0720 IST

Year: 2024

II---> 1400 Hours LMT = 1420 IST

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	0700	1400	0830	0830
	0700	1400	0700	1400	LMT				LMT	LMT		
1	17.9	16.3	91	81	6.1	90	45	0.0	6	8	3.8	2.8
2	17.1	18.3	93	91	8.6	90	45	0.0	8	8	13.8	2.0
3	19.4	18.4	96	82	6.8	90	180	0.0	8	4	18.4	2.0
4	19.3	17.1	95	72	6.2	90	180	1.8	4	2	2.0	2.4
5	17.4	17.1	91	64	5.2	90	140	5.3	2	2	2.8	2.6
6	18.9	16.2	90	60	3.5	90	140	5.8	2	2	0.0	3.0
7	18.9	15.1	90	53	3.0	90	140	9.4	2	2	0.0	4.4
8	17.9	15.8	88	52	3.5	140	140	7.6	2	2	0.0	5.0
9	18.2	16.5	87	58	2.4	90	140	9.3	2	2	0.0	5.4
10	15.8	14.7	89	55	2.2	90	45	7.7	2	4	0.0	4.2
11	17.6	16.4	91	83	6.4	90	45	6.1	4	6	0.0	3.0
12	18.0	17.3	96	93	8.5	90	45	2.4	8	8	0.0	2.0
13	16.6	16.2	94	77	8.7	90	45	0.0	8	6	10.0	2.2
14	17.2	17.7	91	74	7.9	45	45	1.0	2	2	0.0	2.4
15	16.6	15.8	83	60	4.2	90	45	2.5	2	2	0.0	4.4
16	17.8	17.2	83	71	7.2	90	90	7.7	2	2	0.0	5.2
17	17.0	16.0	82	62	4.2	90	45	9.7	2	2	0.0	4.8
18	16.9	17.2	86	73	3.1	90	320	6.4	2	0	0.0	3.8
19	18.3	14.7	88	55	7.3	90	45	8.1	2	0	0.0	3.4
20	16.3	17.1	78	67	4.2	90	45	3.2	2	0	0.0	3.0
21	18.5	17.3	87	64	3.1	90	45	3.6	2	2	0.0	3.6
22	19.5	16.6	92	61	2.6	90	45	8.2	2	2	0.0	3.2
23	16.5	15.2	93	60	3.0	90	140	4.0	2	2	0.0	3.8
24	16.9	13.1	80	52	2.1	90	140	4.3	2	2	0.0	3.6
25	16.9	15.0	89	62	2.3	90	140	3.5	2	4	0.0	3.4
26	16.4	17.5	83	83	4.8	90	90	3.1	4	4	0.0	4.0
27	17.0	15.7	91	70	3.5	90	140	0.3	4	4	1.0	2.0
28	17.8	16.5	90	70	6.9	90	140	0.8	4	4	2.4	2.2
29	18.4	16.2	93	64	8.3	90	140	3.7	4	4	0.0	3.2
30	14.0	16.3	85	68	8.4	90	140	5.9	4	4	0.0	4.4
31	17.3	12.6	88	44	7.3	90	90	7.2	4	4	0.0	2.8
Mean	17.5	16.2	89	67	5.2	..	..	4.5	3	3	54.2	3.4
Weekly mean												
Std. Week No: 49 (December 3 - December 9) No. of Days: 7												
Mean	18.6	16.6	90.9	63.1	4.4	...	...	5.6	...	...	23.2	3.5
Std. Week No: 50 (December 10 - December 16) No. of Days: 7												
Mean	17.1	16.5	89.8	73.1	6.4	...	...	3.9	...	...	10.0	3.3
Std. Week No: 51 (December 17 - December 23) No. of Days: 7												
Mean	17.6	16.3	86.4	63.3	3.9	...	...	6.2	...	...	0.0	3.7
Std. Week No: 52 (December 24 - December 31) No. of Days: 8												
Mean	16.8	15.4	87.4	64.2	5.5	...	...	3.6	...	...	3.4	3.2

Note: Rainfall is in total