

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 : 2021

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		0700	1400	0700	1400	0700	1400
	LMT	LMT	LMT	LMT	LMT	LMT		IST	LMT	LMT	LMT	LMT	LMT	LMT
1	26.2	17.8	20.4	25.0	20.0	21.0	3.2	20.0	27.0	21.4	26.4	22.4	25.0
2	25.4	17.6	21.2	25.2	20.6	21.2	3.1	20.8	27.8	21.6	27.4	22.0	26.6
3	25.2	18.0	21.6	26.6	20.4	21.0	3.0	21.6	27.6	22.8	27.2	23.6	26.4
4	27.0	18.2	21.2	26.8	20.8	21.4	3.4	21.4	27.8	22.0	27.0	23.4	26.6
5	27.2	17.4	20.4	26.8	19.6	19.6	3.5	21.8	28.0	22.4	27.4	23.6	26.8
6	30.2	17.4	21.6	26.6	20.4	21.2	4.2	22.0	30.0	22.4	28.8	23.8	27.6
7	26.6	17.8	21.4	26.8	20.8	21.4	3.3	21.8	30.4	22.2	29.0	23.4	27.8
8	27.0	18.0	22.0	26.4	20.8	21.0	3.4	22.0	29.6	22.4	28.0	23.4	27.6
9	26.8	18.0	21.4	25.0	20.6	20.8	3.3	21.8	29.8	22.0	28.0	23.6	27.8
10	25.2	17.2	20.6	26.2	19.8	21.4	3.1	21.0	29.5	21.8	28.4	22.4	27.6
11	26.4	18.0	20.4	25.2	19.2	20.6	3.2	21.2	28.0	22.6	26.8	23.2	26.4
12	25.2	16.6	18.8	27.0	17.8	21.2	3.1	21.0	29.0	22.0	28.6	23.6	27.2
13	27.6	16.6	21.0	24.0	20.4	21.4	3.7	21.4	28.6	22.0	27.0	23.6	26.8
14	24.0	16.8	20.6	23.8	20.0	19.8	2.8	20.4	27.0	22.0	26.0	22.4	25.8
15	24.4	16.8	20.0	23.8	19.2	20.6	2.9	20.2	28.0	21.0	27.2	22.4	26.0
16	23.8	15.6	19.0	25.8	18.0	20.8	3.0	20.0	28.0	20.8	26.8	21.8	26.0
17	26.0	19.6	20.8	26.0	20.0	20.4	2.8	20.8	28.8	21.4	27.0	22.0	26.8
18	26.2	13.2	19.0	25.4	16.8	20.2	3.7	20.2	29.6	21.4	27.2	22.0	27.0
19	25.8	13.0	17.6	26.8	15.0	20.6	3.7	20.2	29.8	21.6	27.8	22.4	27.0
20	27.8	13.8	16.8	27.0	15.6	20.8	4.0	20.4	29.8	21.6	28.0	22.2	27.2
21	27.4	13.4	16.0	25.2	15.6	20.4	3.9	20.6	29.6	21.8	28.0	22.4	26.6
22	25.6	12.6	19.0	26.0	17.6	19.4	3.7	20.6	29.6	21.6	27.6	22.4	26.8
23	26.4	13.4	17.8	25.8	16.4	19.4	3.8	20.8	29.4	21.8	27.8	22.6	25.8
24	25.8	13.0	18.0	26.0	16.4	17.2	3.7	20.0	29.2	21.2	27.0	22.0	26.0
25	29.2	12.0	17.0	27.0	14.8	20.6	4.4	21.6	29.8	22.0	28.0	22.4	27.2
26	27.4	11.4	15.6	27.0	14.0	20.4	4.1	21.4	30.4	22.6	28.0	23.0	26.8
27	27.6	11.2	15.8	26.0	14.6	20.2	4.2	21.0	30.8	21.8	29.0	22.8	27.6
28	26.2	13.4	18.0	25.8	17.0	18.2	3.7	20.2	30.0	22.4	28.2	24.0	26.0
29	26.0	14.2	18.2	26.0	17.4	19.2	3.6	20.0	29.6	21.0	28.0	23.4	27.2
30	27.0	14.4	19.2	25.0	18.0	19.2	3.8	20.0	29.0	21.2	26.2	23.4	25.0
31	26.8	14.0	19.2	24.0	18.2	20.0	3.8	20.2	28.0	22.4	27.4	23.8	26.6
Mean	25.9	17.3	21.1	25.2	20.2	20.9	3.3	20.7	25.3	21.5	24.4	22.3	23.9
Weekly mean													
Std. Week No: 49 (December 3 - December 9) No. of Days: 7													
Mean	27.1	17.8	21.4	26.4	20.5	20.9	3.4	21.8	29.0	22.3	27.9	23.5	27.2
Std. Week No: 50 (December 10 - December 16) No. of Days: 7													
Mean	25.2	16.8	20.1	25.1	19.2	20.8	3.1	20.7	28.3	21.7	27.3	22.8	26.5
Std. Week No: 51 (December 17 - December 23) No. of Days: 7													
Mean	26.5	14.1	18.1	26.0	16.7	20.2	3.7	20.5	29.5	21.6	27.6	22.3	26.7
Std. Week No: 52 (December 24 - December 31) No. of Days: 8													
Mean	27.0	13.0	17.6	25.9	16.3	19.4	3.9	20.6	29.6	21.8	27.7	23.1	26.6

PART- II

Time of Observation

Month : December

I--> 0700 Hours LMT = 0720 IST

Year : 2021

II--> 1400 Hours LMT = 1420 IST

Date	Humidity				Mean Wind			Bright SSH	Cloud Amount (Octas)		Rainfall (mm)	Pan Evap. (mm)
	Vap. Pr. (mm)	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	17.3	16.4	96	69	7.8	140	90	3.9	8	6	0.0	2.2
2	17.9	16.7	95	69	4.5	90	140	1.6	8	6	0.0	2.6
3	17.3	15.5	89	60	3.2	140	230	0.7	6	4	0.0	3.4
4	18.2	16.1	96	61	1.5	270	270	4.1	4	3	1.0	3.2
5	16.7	13.1	93	50	1.3	270	270	5.4	4	3	0.0	3.4
6	17.3	15.9	89	61	2.5	230	140	3.7	4	3	0.0	4.0
7	18.1	16.1	95	61	1.1	140	90	3.3	3	0	0.0	3.6
8	17.8	15.7	90	61	3.5	90	45	7.2	0	2	0.0	3.8
9	17.8	16.1	93	68	4.8	45	45	9.1	0	3	0.0	4.2
10	16.9	16.5	93	65	5.5	45	45	1.2	3	3	12.4	3.0
11	16.0	15.7	89	65	6.1	45	45	10.0	4	4	0.0	4.4
12	14.7	15.7	91	59	6.8	45	45	2.4	6	3	2.2	3.6
13	17.6	17.7	95	79	7.2	90	90	3.1	6	6	0.0	3.4
14	17.2	15.1	95	68	6.7	90	45	3.0	6	6	4.6	3.0
15	16.2	16.4	93	74	6.5	45	45	2.0	8	4	0.0	2.6
16	14.9	15.7	91	63	4.5	45	45	1.7	0	2	0.0	2.8
17	17.1	14.9	93	59	6.0	45	45	7.9	0	2	0.0	3.2
18	13.1	14.9	80	61	4.3	45	45	8.6	0	0	0.0	3.2
19	11.4	14.8	75	56	5.6	45	45	7.5	0	0	0.0	3.4
20	12.6	15.0	88	56	5.3	45	45	9.6	0	0	0.0	3.8
21	13.1	15.3	96	64	4.0	45	45	9.3	6	2	0.0	3.8
22	14.3	13.2	87	53	1.3	45	45	8.2	0	0	0.0	3.6
23	13.2	13.4	86	54	1.5	45	45	9.2	0	0	0.0	4.2
24	13.1	12.9	85	39	1.6	45	90	8.4	0	0	0.0	3.6
25	11.4	14.7	79	55	1.6	45	45	9.6	0	0	0.0	4.4
26	11.1	14.3	84	54	2.1	45	45	9.8	0	0	0.0	4.0
27	11.8	14.5	88	58	4.9	45	45	9.4	0	0	0.0	4.2
28	14.0	11.5	90	46	5.7	45	90	9.1	0	0	0.0	3.8
29	14.5	12.9	92	51	6.0	45	45	9.0	0	0	0.0	4.0
30	14.8	13.5	89	57	6.0	45	45	8.4	0	0	0.0	4.0
31	15.1	15.3	90	69	8.8	90	45	7.5	0	0	0.0	3.4
Mean	15.2	15.0	90	60	4.5	..	..	6.3	2	2	20.2	3.5
Weekly mean												
Std. Week No: 49 (December 3 - December 9) No. of Days: 7												
Mean	17.6	15.5	92.2	60.1	2.6	...	...	4.8	...	...	1.0	3.7
Std. Week No: 50 (December 10 - December 16) No. of Days: 7												
Mean	16.2	16.1	92.1	67.5	6.2	...	...	3.3	...	...	19.2	3.3
Std. Week No: 51 (December 17 - December 23) No. of Days: 7												
Mean	13.5	14.5	86.4	57.4	4.0	...	...	8.6	...	...	0.0	3.6
Std. Week No: 52 (December 24 - December 31) No. of Days: 8												
Mean	13.2	13.7	87.0	53.6	4.6	...	...	8.9	...	...	0.0	3.9

Note: Rainfall is in total