

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 : 2020

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	24.8	16.8	19.8	25.0	18.4	20.4	3.1	21.4	29.2	22.0	27.8	23.4	27.0	
2	25.4	14.8	19.0	24.4	18.2	20.6	3.5	20.8	27.6	21.8	26.0	22.8	25.6	
3	25.0	16.0	19.8	25.0	18.8	20.6	3.2	20.6	28.0	21.8	26.8	22.4	26.0	
4	25.4	16.2	19.0	23.0	18.6	20.4	3.3	20.4	26.0	22.0	24.8	23.0	24.0	
5	23.0	16.0	19.0	25.0	18.8	20.2	2.8	20.8	24.6	21.0	23.4	21.6	22.8	
6	25.2	15.8	19.2	24.4	19.0	20.2	3.3	20.2	25.0	20.8	23.6	21.4	23.0	
7	24.8	17.0	19.0	25.0	18.8	20.4	3.0	20.0	22.8	20.8	22.0	21.4	22.0	
8	25.4	16.4	19.8	24.8	19.0	20.8	3.2	20.0	23.8	20.4	22.0	20.8	21.8	
9	25.0	18.0	21.0	24.0	20.0	20.4	2.9	20.4	24.8	21.8	23.0	22.0	22.0	
10	24.0	16.4	19.8	26.0	19.4	20.6	2.9	20.8	26.6	21.0	26.0	22.0	24.8	
11	26.2	17.0	17.6	24.8	17.0	20.8	3.3	21.0	27.6	22.0	27.0	22.4	26.0	
12	25.0	14.2	14.6	25.8	14.0	20.8	3.4	20.8	28.0	22.0	26.8	23.0	26.0	
13	26.4	15.6	17.2	26.0	16.8	20.6	3.5	20.4	26.8	21.6	26.0	21.8	25.8	
14	26.4	15.8	16.8	26.0	16.4	20.6	3.5	21.4	27.6	21.8	26.0	22.0	26.0	
15	26.4	15.0	16.0	26.0	15.4	20.8	3.6	20.8	28.0	21.6	27.4	22.2	26.6	
16	26.0	15.6	16.6	25.0	15.8	20.4	3.4	20.0	28.0	21.4	26.8	22.0	26.0	
17	25.0	16.4	20.0	24.8	19.6	20.6	3.1	20.8	28.4	21.6	27.0	22.4	26.6	
18	25.2	16.8	20.0	26.0	19.6	20.2	3.1	20.8	28.0	21.0	27.0	22.0	26.8	
19	26.8	16.0	17.4	25.6	16.6	21.0	3.6	20.4	28.0	20.8	26.8	21.6	26.4	
20	26.0	17.0	18.6	25.0	17.8	20.2	3.3	20.0	28.6	21.4	27.6	22.0	26.8	
21	25.2	13.4	15.4	25.0	15.0	20.4	3.5	20.6	28.6	20.8	27.8	21.8	26.8	
22	25.0	13.0	14.0	26.4	12.4	20.4	3.5	20.8	29.0	21.0	28.4	22.0	27.0	
23	26.8	14.8	16.8	25.0	15.4	21.2	3.7	22.6	28.0	23.0	27.6	23.2	26.0	
24	27.0	15.2	18.0	25.0	17.2	20.4	3.7	22.0	28.0	22.4	27.0	23.0	26.6	
25	25.6	15.0	16.4	25.8	15.4	20.2	3.4	21.0	28.8	22.0	27.6	23.0	27.0	
26	26.2	14.8	15.8	26.0	15.0	21.2	3.6	21.0	28.0	22.8	27.0	22.4	27.2	
27	26.0	15.0	16.2	25.4	15.0	20.0	3.5	21.6	27.8	22.4	27.6	22.6	27.0	
28	28.0	14.0	15.2	27.0	14.8	22.0	4.0	21.0	29.0	22.0	28.0	22.6	27.2	
29	27.6	14.0	17.6	27.2	16.8	21.2	4.0	20.0	29.0	21.2	27.8	21.8	27.0	
30	28.5	17.2	20.0	28.0	19.2	21.2	3.8	22.0	29.8	22.4	28.4	23.2	27.6	
31	28.2	17.8	18.2	28.2	17.8	20.0	3.7	20.8	29.2	21.8	29.0	22.4	27.8	
Mean	25.9	15.7	17.9	25.5	17.2	20.6	3.4	20.8	27.5	21.6	26.5	22.3	25.8	
Weekly mean														
Std.Week No: 49 (December 3 - December 9) No. of Days: 7														
Mean	24.8	16.5	19.5	24.5	19.0	20.4	3.1	20.3	25.0	21.2	23.7	21.8	23.1	
Std.Week No: 50 (December 10 - December 16) No. of Days: 7														
Mean	25.8	15.7	16.9	25.7	16.4	20.7	3.4	20.7	27.5	21.6	26.6	22.2	25.9	
Std.Week No: 51 (December 17 - December 23) No. of Days: 7														
Mean	25.7	15.3	17.5	25.4	16.6	20.6	3.4	20.9	28.4	21.4	27.5	22.1	26.6	
Std.Week No: 52 (December 24 - December 31) No. of Days: 8														
Mean	27.1	15.4	17.2	26.6	16.4	20.8	3.7	21.2	28.7	22.1	27.8	22.6	27.2	

PART- II

Time of Observation
I--> 0700 Hours LMT = 0720 IST
II--> 1400 Hours LMT = 1420 IST

Month : December
Year : 2020

Date	Humidity				Mean Wind			Bright SSH	Cloud Amount (Octas)		Rainfall (mm)	Pan Evap. (mm)
	Vap. Pr. (mm) Hg.		Rel. Hum. %		Speed (Km/day)	Direction			0700	1400		
	0700	1400	0700	1400	0700	0700	1400	0700			1400	0830	0830
	LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT	LMT	IST	IST
1	15.1	15.4	87	65	8.0	90	45	7.4	3.0	2.0	0.0	3.6
2	15.2	16.1	92	70	6.3	45	45	8.4	2.0	3.0	0.0	4.0
3	15.7	15.8	91	66	10.0	45	45	7.4	8.0	3.0	0.0	3.4
4	15.9	16.5	96	78	9.9	45	320	0.0	8.0	6.0	4.2	1.6
5	16.2	15.1	98	64	10.4	320	45	0.0	6.0	6.0	2.2	1.4
6	16.4	15.4	98	67	8.8	45	45	0.0	8.0	6.0	1.4	1.8
7	16.2	15.4	98	65	12.0	45	45	0.0	8.0	6.0	2.2	1.6
8	16.0	16.2	93	69	9.0	45	45	4.2	8.0	4.0	3.2	1.2
9	17.0	16.0	91	71	6.3	90	140	0.0	0.0	3.0	0.0	2.2
10	16.7	15.2	96	60	7.4	140	45	4.9	0.0	3.0	0.0	3.6
11	14.2	16.2	94	69	5.3	45	45	9.3	2.0	2.0	0.0	4.0
12	11.7	15.7	94	63	3.6	140	140	9.0	6.0	3.0	0.0	4.2
13	14.1	15.2	96	60	3.0	140	140	8.6	4.0	3.0	0.0	3.0
14	13.8	15.2	96	60	2.3	140	45	9.4	6.0	0.0	0.0	3.2
15	12.8	15.5	94	62	3.9	45	45	8.5	3.0	2.0	0.0	2.6
16	13.0	15.4	92	65	4.9	45	45	7.8	0.0	3.0	0.0	3.8
17	16.9	15.9	96	68	7.9	45	45	3.9	6.0	3.0	0.0	2.8
18	16.9	14.5	96	58	8.4	90	50	1.8	0.0	3.0	0.0	3.8
19	13.7	16.1	92	65	9.3	90	90	9.1	2.0	2.0	0.0	3.8
20	14.8	15.1	92	64	7.2	90	90	6.4	2.0	2.0	0.0	3.4
21	12.6	15.4	96	65	7.1	90	90	8.2	0.0	0.0	0.0	3.6
22	9.9	14.7	83	57	5.7	90	90	9.0	0.0	2.0	0.0	3.0
23	12.4	16.8	86	71	5.7	90	90	8.5	2.0	0.0	0.0	3.4
24	14.3	15.4	92	65	5.3	90	90	4.9	0.0	2.0	0.0	3.2
25	12.6	14.7	90	59	6.2	90	90	9.8	2.0	3.0	0.0	3.8
26	12.4	16.2	92	64	5.7	90	90	9.8	2.0	3.0	0.0	4.0
27	12.1	14.5	88	60	4.6	90	90	9.6	2.0	0.0	0.0	3.6
28	12.4	17.1	96	64	5.3	90	90	8.3	0.0	0.0	0.0	3.4
29	13.9	15.6	92	58	5.0	45	140	9.4	0.0	0.0	0.0	3.8
30	16.2	15.1	93	53	8.9	90	90	8.8	0.0	0.0	0.0	3.6
31	14.5	13.0	93	63	9.0	90	90	8.0	8.0	2.0	0.0	3.4
Mean	14.4	15.5	93	64	6.8	..	..	6.5	3	2	13.2	3.2
Weekly mean												
Std.Week No: 49 (December 3 - December 9) No. of Days: 7												
Mean	16.2	15.8	95.0	68.7	9.5	...	...	1.7	...	...	13.2	1.9
Std.Week No: 50 (December 10 - December 16) No. of Days: 7												
Mean	13.7	15.5	94.5	62.8	4.3	...	...	8.2	...	...	0.0	3.5
Std.Week No: 51 (December 17 - December 23) No. of Days: 7												
Mean	13.9	15.5	91.7	63.8	7.3	...	...	6.7	...	...	0.0	3.4
Std.Week No: 52 (December 24 - December 31) No. of Days: 8												
Mean	13.5	15.2	91.9	60.7	6.3	...	...	8.6	...	...	0.0	3.6

Note: Rainfall is in total