

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
Long : 77° 34' E
Alt : 924 m (amsl)

Month : December
Year : 2017

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	24.0	18.0	19.6	20.8	19.0	19.8	2.3	20.0	24.6	20.8	23.2	21.6	22.6
2	21.4	18.0	19.0	21.8	18.4	19.4	2.1	19.6	27.4	20.0	26.0	21.0	25.6
3	21.8	17.0	18.8	24.2	18.0	19.6	2.1	19.6	27.0	20.4	25.8	20.6	24.6
4	24.4	17.0	18.0	24.8	17.6	19.8	2.4	19.6	27.8	20.6	26.0	20.8	24.8
5	25.0	17.6	19.6	25.0	19.4	19.8	2.3	19.4	28.6	20.0	26.0	21.0	25.8
6	25.4	17.2	19.8	27.4	19.0	20.8	2.3	20.0	29.4	20.8	28.0	22.0	27.0
7	28.4	20.0	20.8	27.6	19.8	20.0	3.0	21.6	32.0	22.4	30.0	23.0	28.8
8	27.8	12.0	20.2	28.0	17.8	20.6	2.5	22.0	31.8	22.8	30.0	23.4	28.6
9	29.2	12.6	20.2	28.0	18.8	20.8	3.1	21.4	31.4	22.4	30.2	23.2	28.8
10	28.2	14.0	18.0	27.0	16.8	20.0	3.2	21.6	21.0	22.8	29.6	23.4	28.8
11	27.8	18.4	20.6	28.0	18.8	20.0	3.4	21.0	31.0	22.4	29.6	23.0	28.8
12	28.8	15.0	19.6	27.2	18.2	20.4	3.0	18.0	30.6	21.6	28.4	22.4	27.8
13	27.4	17.8	20.0	26.8	18.4	20.0	2.9	20.6	31.2	21.8	28.8	22.8	28.0
14	27.0	16.0	19.8	27.2	19.0	20.4	2.5	21.0	31.0	22.8	29.6	23.6	28.8
15	28.0	15.4	18.0	26.8	16.4	20.6	3.4	20.8	32.0	21.6	30.6	22.4	28.6
16	27.0	16.0	18.4	26.0	17.0	20.4	3.4	20.8	31.8	22.0	30.0	22.8	28.8
17	26.4	14.2	18.0	25.2	16.8	19.8	3.2	21.0	31.6	22.4	30.0	23.4	29.0
18	25.8	14.0	18.2	25.0	17.0	19.6	3.3	21.6	32.0	22.6	30.0	23.4	29.0
19	25.2	13.2	15.8	26.0	15.0	20.0	3.1	21.0	30.0	22.6	28.8	23.4	27.6
20	26.2	15.4	18.4	26.2	17.0	20.2	3.4	20.6	30.2	21.4	29.0	22.0	28.6
21	27.0	12.8	17.0	26.6	15.8	20.2	3.2	20.0	30.8	21.2	29.6	22.0	29.0
22	26.8	13.0	18.0	26.2	16.6	19.8	3.2	20.0	30.8	21.4	30.0	22.8	28.6
23	26.8	13.4	16.4	25.2	16.0	20.2	3.1	20.4	30.0	21.0	28.6	21.8	28.2
24	25.8	13.0	14.8	26.2	14.0	20.0	3.1	20.0	30.0	21.4	28.8	22.0	28.0
25	27.0	13.6	16.0	25.8	15.2	19.8	3.4	20.0	30.6	20.8	30.0	21.4	28.8
26	25.9	13.8	15.8	27.0	14.8	20.0	3.1	19.6	30.6	20.0	29.0	21.4	28.4
27	27.6	13.4	15.2	26.4	14.6	20.0	3.5	19.8	30.0	20.6	28.8	21.0	28.0
28	26.6	13.4	15.6	25.0	14.0	19.6	3.3	19.6	30.8	20.0	29.0	20.8	28.0
29	25.0	11.8	14.0	25.6	12.4	20.2	3.0	19.6	30.6	20.0	29.0	21.0	27.8
30	25.8	12.8	17.0	25.8	15.8	20.0	3.2	19.8	30.0	20.4	28.4	21.4	28.0
31	26.0	13.6	16.4	25.6	15.4	20.2	3.2	20.0	28.8	20.8	28.0	21.0	27.6
Mean	26.3	14.9	18.0	25.9	16.9	20.1	3.0	20.3	29.9	21.3	28.7	22.1	27.8
Weekly mean													
Std.Week No: 49 (December 3 - December 9) No. of Days: 7													
Mean	26.0	16.2	19.6	26.4	18.6	20.2	2.5	20.5	29.7	21.3	28.0	22.0	26.9
Std.Week No: 50 (December 10 - December 16) No. of Days: 7													
Mean	27.7	16.1	19.2	27.0	17.8	20.3	3.1	20.5	29.8	22.1	29.5	22.9	28.5
Std.Week No: 51 (December 17 - December 23) No. of Days: 7													
Mean	26.3	13.7	17.4	25.8	16.3	20.0	3.2	20.7	30.8	21.8	29.4	22.7	28.6
Std.Week No: 52 (December 24 - December 31) No. of Days: 8													
Mean	26.2	13.2	15.6	25.9	14.5	20.0	3.2	19.8	30.2	20.5	28.9	21.3	28.1

PART- II

Time of Observation

Month : December

I---> 0700 Hours LMT = 0720 IST

Year : 2017

II---> 1400 Hours LMT = 1420 IST

Date	Humidity				Mean Wind			Bright	Cloud		Rainfall	Pan
	Vap. Pr.		Rel. Hum.		Speed	Direction		SSH	Amount			Evap.
	(mm) Hg.		%		(Km/day)				(Octas)		(mm)	(mm)
	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	16.1	17.8	94	91	11.4	50	140	0.0	8	6	6.4	2.8
2	15.5	17.4	94	79	11.9	140	50	0.0	6	6	2.4	2.2
3	15.0	18.0	92	64	8.6	90	50	0.0	6	6	0.0	1.8
4	14.9	18.5	96	62	7.2	140	50	0.0	6	6	0.0	2.8
5	16.8	17.5	98	61	5.2	50	50	0.0	6	4	0.0	3.2
6	16.0	19.4	93	54	3.1	140	140	1.0	4	2	0.0	2.8
7	16.8	17.6	91	48	2.6	140	140	3.4	0	0	0.0	3.6
8	14.0	19.7	79	50	3.8	140	140	4.4	0	0	0.0	5.2
9	15.5	19.5	87	51	3.2	140	140	10.1	0	0	0.0	4.4
10	13.7	19.3	88	51	2.7	50	50	10.7	0	0	0.0	4.2
11	15.3	18.2	84	46	3.5	50	140	9.1	0	0	0.0	4.4
12	14.9	19.2	87	53	1.7	140	140	8.2	0	0	0.0	4.2
13	15.0	18.4	85	52	2.4	90	50	5.3	3	0	0.0	4.0
14	16.0	18.7	93	53	3.5	50	50	2.4	0	0	0.0	4.2
15	13.1	20.5	85	56	8.3	50	50	7.9	0	0	0.0	5.0
16	13.8	19.9	87	59	7.7	50	50	9.2	0	0	0.0	4.8
17	13.7	19.0	88	60	8.8	50	50	8.1	0	0	0.0	4.6
18	13.9	18.5	88	59	9.8	50	50	9.5	0	0	0.0	5.2
19	12.4	20.3	92	56	6.9	50	140	9.5	0	0	0.0	5.6
20	13.8	19.5	87	57	9.0	50	50	8.6	0	0	0.0	4.6
21	12.8	20.2	88	54	6.0	50	50	9.7	0	0	0.0	4.6
22	13.4	19.1	87	54	7.2	90	50	8.4	0	0	0.0	4.8
23	13.4	20.1	96	62	4.9	50	50	9.2	0	0	0.0	4.4
24	11.6	20.9	91	55	5.2	50	50	8.9	0	0	0.0	4.6
25	12.5	19.9	92	56	7.0	50	50	9.6	0	0	0.0	5.0
26	12.1	20.4	90	51	4.9	50	90	7.2	0	0	0.0	4.8
27	12.1	20.5	94	54	7.30	90	90	9.2	0	0	0	5
28	11.1	20.2	84	59	5.30	90	90	9.3	0	0	0	4.8
29	9.9	22.1	83	60	5.40	90	90	9.2	0	0	0	5.2
30	12.8	19.9	88	58	5.40	50	50	9.6	0	0	0	4.8
31	12.6	20.4	90	60	4.20	50	50	9.2	0	0	0	5
Mean	13.9	19.4	89	58	5.94	..	..	6.7	1	1	8.8	4.3
Weekly mean												
Std.Week No: 49 (December 3 - December 9) No. of Days: 7												
Mean	15.6	18.6	90.9	55.7	4.8	...	...	2.7	...	...	0.0	3.2
Std.Week No: 50 (December 10 - December 16) No. of Days: 7												
Mean	14.5	19.2	87.0	52.8	4.3	...	...	7.5	...	...	0.0	4.4
Std.Week No: 51 (December 17 - December 23) No. of Days: 7												
Mean	13.3	19.5	89.4	57.5	7.5	...	...	9.0	...	...	0.0	4.8
Std.Week No: 52 (December 24 - December 31) No. of Days: 8												
Mean	11.8	20.5	88.9	56.7	5.6	...	...	9.0	...	...	0.0	4.9

Note: Rainfall is in total

