

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 : 2019

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	24.2	17.0	19.0	23.8	18.8	20.0	2.2	20.8	25.4	21.6	25.0	22.0	24.6	
2	23.8	17.8	19.0	23.8	18.8	20.4	2.2	20.6	25.4	21.8	24.8	22.0	24.0	
3	24.2	16.6	18.8	24.0	18.6	20.2	2.2	21.6	25.6	22.0	24.4	22.4	24.0	
4	24.2	16.8	19.2	25.2	18.6	20.8	2.3	20.0	25.6	21.0	24.8	22.4	24.0	
5	25.4	16.2	18.0	24.4	16.8	20.4	3.2	21.8	25.6	22.0	24.6	22.8	24.0	
6	24.8	16.8	19.0	24.0	18.0	20.0	2.8	21.6	27.8	22.0	26.8	23.0	26.0	
7	24.0	15.0	15.6	23.8	14.8	20.0	2.5	21.8	26.6	22.0	26.0	23.2	25.4	
8	24.8	16.4	18.0	23.4	17.2	20.2	2.7	21.0	26.6	22.0	25.6	22.4	25.0	
9	23.6	16.4	18.2	26.0	17.6	20.8	2.2	21.4	28.8	21.8	28.0	22.0	27.6	
10	26.4	16.2	19.6	25.2	18.2	20.6	3.3	21.8	27.8	22.4	26.6	22.8	26.0	
11	25.6	15.4	18.8	26.6	18.0	21.0	2.9	21.8	29.0	22.8	27.8	23.6	27.0	
12	27.0	15.4	18.6	26.0	17.8	20.8	2.9	20.8	30.0	21.6	28.8	22.0	27.8	
13	26.0	15.8	18.2	26.4	17.0	20.6	3.0	21.0	30.4	22.0	28.8	23.0	28.0	
14	27.0	17.0	21.2	25.0	20.0	20.6	2.8	21.8	30.0	22.4	29.2	23.8	28.2	
15	26.8	15.8	18.6	26.0	17.8	20.8	3.0	21.8	29.0	22.4	27.8	22.8	26.6	
16	26.0	14.8	18.6	26.2	17.2	20.6	2.7	20.8	31.8	21.4	30.0	22.2	28.8	
17	26.8	15.8	19.4	25.6	18.2	20.8	3.0	21.6	31.4	22.0	30.2	23.0	28.6	
18	25.8	14.8	18.0	25.4	16.8	20.2	2.8	21.8	28.8	22.4	27.6	23.0	27.0	
19	26.4	16.8	18.4	25.4	17.2	20.4	3.4	21.4	29.2	22.8	28.4	23.6	27.0	
20	25.8	16.0	18.2	25.0	17.0	20.0	2.7	21.0	29.0	22.4	28.2	23.4	27.0	
21	25.6	15.8	18.0	26.0	17.4	20.4	3.1	21.6	29.6	22.0	28.8	23.4	28.0	
22	26.2	16.0	18.8	26.6	18.0	20.6	3.3	21.6	28.8	22.0	27.6	23.2	26.8	
23	27.2	16.4	19.0	26.8	18.2	20.2	3.3	21.8	29.0	22.0	28.8	23.0	28.0	
24	27.8	16.8	18.8	26.8	17.8	20.8	3.1	21.6	29.0	22.0	28.6	23.6	28.0	
25	28.0	18.0	20.0	25.6	18.8	20.0	3.4	21.6	30.0	22.4	28.8	23.8	28.0	
26	25.8	18.2	19.0	27.8	17.8	20.4	2.9	21.6	30.8	22.4	29.6	23.4	28.8	
27	28.4	17.2	18.8	28.2	18.0	20.6	3.1	21.4	31.0	22.4	29.6	23.8	28.8	
28	29.0	16.8	18.2	26.8	17.6	20.8	3.5	21.8	30.8	22.4	29.6	23.6	28.6	
29	27.0	16.6	18.4	26.2	17.6	20.8	3.4	21.6	30.8	22.0	28.6	23.2	27.8	
30	26.6	16.8	19.0	26.8	18.2	20.6	3.7	21.8	30.8	22.4	30.0	23.0	28.6	
31	27.0	16.8	18.8	26.4	17.6	21.0	3.2	20.8	30.8	21.6	30.0	22.4	29.0	
Mean	26.0	16.4	18.7	25.7	17.8	20.5	2.9	21.4	28.9	22.1	27.9	23.0	27.0	
Weekly mean														
Std.Week No: 49 (December 3 - December 9) No. of Days: 7														
Mean	24.4	16.3	18.1	24.4	17.4	20.3	2.6	21.3	26.7	21.8	25.7	22.6	25.1	
Std.Week No: 50 (December 10 - December 16) No. of Days: 7														
Mean	26.4	15.8	19.1	25.9	18.0	20.7	2.9	21.4	29.7	22.1	28.4	22.9	27.5	
Std.Week No: 51 (December 17 - December 23) No. of Days: 7														
Mean	26.3	15.9	18.5	25.8	17.5	20.4	3.1	21.5	29.4	22.2	28.5	23.2	27.5	
Std.Week No: 52 (December 24 - December 31) No. of Days: 8														
Mean	27.5	17.2	18.9	26.8	17.9	20.6	3.3	21.5	30.5	22.2	29.4	23.4	28.5	

PART- II

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

Month : December
Year : 2019

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 LMT	1400 LMT	0700 LMT	1400 LMT	0700 LMT	0700 LMT	1400 LMT	0700 LMT	1400 LMT	0830 IST	0830 IST	
1	16.2	15.4	98	70	7.6	90	45	0.7	8.0	8.0	0.4	2.6
2	16.2	16.1	98	73	8.7	45	45	0.0	8.0	6.0	1.2	1.6
3	16.0	15.7	98	70	9.1	45	45	0.2	8.0	6.0	0.0	1.4
4	15.7	16.0	94	66	8.7	45	45	1.2	4.0	3.0	0.0	2.8
5	13.7	15.8	88	69	9.2	45	90	8.4	4.0	3.0	0.0	3.0
6	14.9	15.3	91	68	7.2	90	90	5.1	4.0	2.0	0.0	3.2
7	12.2	15.4	92	70	7.2	90	45	2.8	3.0	3.0	0.0	3.8
8	14.3	16.0	92	74	7.1	45	45	4.3	4.0	3.0	0.0	3.6
9	14.8	15.5	94	62	6.8	90	90	0.7	2.0	2.0	0.0	3.0
10	14.9	15.7	87	65	7.5	90	45	9.6	0.0	2.0	0.0	3.8
11	15.0	15.5	92	60	6.8	45	45	7.2	0.0	2.0	0.0	3.8
12	14.8	15.5	92	62	4.5	90	90	7.0	0.0	2.0	0.0	3.6
13	13.9	15.0	88	58	7.0	90	45	5.9	4.0	4.0	0.0	4
14	16.9	15.8	89	66	7.0	45	90	4.2	8.0	6.0	0.0	3.6
15	14.8	15.5	92	62	9.7	90	45	5.1	4.0	4.0	0.0	4
16	13.9	15.1	87	59	7.3	45	90	3.3	0.0	2.0	0.0	3.8
17	15.0	15.8	89	64	9.3	90	45	4.8	0.0	2.0	0.0	4.2
18	13.7	14.9	88	61	7.6	45	50	3.8	2.0	0.0	0.0	4
19	14.1	15.2	89	63	8.5	50	90	8.0	6.0	4.0	0.0	4
20	13.9	14.8	88	62	5.6	90	90	2.3	0.0	2.0	0.0	3.6
21	14.6	14.9	94	59	6.5	90	90	8.0	6.0	2.0	0.0	3.4
22	15.0	14.9	92	57	7.9	90	90	8.4	6.0	4.0	0.0	3.6
23	15.2	14.1	92	53	7.4	90	90	6.5	6.0	3.0	0.0	3.4
24	14.7	15.1	91	57	5.3	90	90	4.8	6.0	3.0	0.0	3.8
25	15.6	14.4	89	59	6.7	90	90	5.3	8.0	4.0	0.0	3.8
26	14.6	13.9	89	50	5.4	90	90	1.9	6.0	4.0	0.0	4
27	15.0	14.0	92	49	3.3	90	140	4.6	6.0	2.0	0.0	4.4
28	14.8	15.1	94	57	5.5	140	90	6.8	2.0	2.0	0.0	4.2
29	14.7	15.4	92	61	6.1	90	90	8.6	2.0	2.0	0.0	4
30	15.2	14.8	92	56	9.0	90	90	9.0	2.0	2.0	0.0	4.4
31	14.6	15.7	91	62	7.3	140	90	7.2	2.0	2.0	0.0	4.2
Mean	14.8	15.2	92	62	7.1	..	..	5.0	4.0	3.0	1.6	3.6
Weekly mean												
Std. Week No: 49 (December 3 - December 9) No. of Days: 7												
Mean	14.5	15.7	92.8	68.5	7.9	...	...	3.2	...	...	0.0	3.0
Std. Week No: 50 (December 10 - December 16) No. of Days: 7												
Mean	14.9	15.4	89.8	61.7	7.1	...	...	6.0	...	...	0.0	3.8
Std. Week No: 51 (December 17 - December 23) No. of Days: 7												
Mean	14.5	14.9	90.5	59.9	7.5	...	...	6.0	...	...	0.0	3.7
Std. Week No: 52 (December 24 - December 31) No. of Days: 8												
Mean	14.9	14.8	91.4	56.2	6.1	...	...	6.0	...	...	0.0	4.1

Note: Rainfall is in total