

Weather at Tamil Nadu Agricultural University, Coimbatore 1980.

An analysis of weather data for 1980 collected at Agricultural Meteorological Observatory, Tamil Nadu Agricultural University, are reported in this paper.

Rainfall

During the year, a total rainfall of 750 mm was received in 47 rainy days as against the 25 year's average rainfall of 640 mm. The seasonal distribution of rainfall and rainy days are featured in Table. 1.

TABLE 1 Seasonal rainfall and rainy days

Season	Average		1980	
	Rainfall (mm)	Rainy days	Rainfall (mm)	Rainy days
Winter (Jan.-Feb)	12	1	-	-
Summer (Mar.-May)	132	9	209.6	16
S.W. Monsoon (Jun.-Sep.)	181	17	138.6	14
N. E. Monsoon (Oct.-Dec.)	315	18	401.4	17

The seasonal rainfall was more than the normal in summer and NE monsoon by 58% and 27% respectively. In SW monsoon the rainfall was below normal by 11% and there was no rain during winter. The onset of N. E. monsoon was early this year (7th October) as against the normal onset by 3rd week of October.

Data on monthly precipitation for 1980 with normals are presented in Table 2.

October and November months contributed 52% of the total rainfall.

The weekly distribution of rainfall is given in Table 3 and it was highest (162.3mm) in 41st week (October 8-14) followed by 125.9 mm in 46th week (November-12-18). The maximum rainfall recorded in any single day was 94.2mm on 7th October.

Temperature:

The weekly mean maximum and minimum temperature are presented in Table 3. The weekly mean maximum temperature ranged between 29.0 to 35.7°C while the minimum temperature ranged between 14.7 to 23.6°C. A

TABLE 2. Monthly rainfall and rainy days

Month	Average rainfall		Rainfall 1980	
	Amount (mm)	Rainy days	Amount (mm)	Rainy days
January	8.4	0.7	—	—
February	3.3	0.5	—	—
March	15.1	0.8	24.9	3
April	48.5	3.4	84.1	7
May	67.7	4.7	100.4	6
June	40.5	3.6	30.3	6
July	65.2	6.2	25.7	3
August	30.1	3.4	15.7	2
September	45.8	3.6	67.9	3
October	142.9	8.9	217.9	8
November	110.5	6.2	176.7	8
December	59.4	3.3	6.8	1

maximum of 37.2°C was recorded on April 13th and the lowest minimum temperature recorded was 12.5°C on 25th January. Maximum temperature prevailed in the months of April and May around 35°C while minimum was in the months of January and February ranging between 15-17°C.

Sunshine :

The average weekly hours of sunshine per day are presented in Table 3. From June to end of October, the hours of sunshine recorded were low ranging between 2 to 6 per day and increased to 9 hours from December onwards. Maximum sunshine was recor-

ded from January to May ranging from 9 to 11 hours per day. In the last weeks of February and March the sunshine hours were highest recording an average of 11 hours per day.

Relative humidity :

The weekly means of relative humidity recorded in the morning (0722 hrs) and evening (1422 hrs) are presented in Table 3. The R. H. value was above 75% in the morning throughout the year and reached around 90% from middle of September to December. The evening R.H. ranged between 30 to 65% recording low R. H. values around 30% from

January to March while it ranged between 45 to 65% in the rest of the year.

Evaporation :

The class 'A' pan evaporimeter data recorded daily at 0830 hours and the mean values per day in Table 3, showed that the evaporation was low and ranged between 4 to 5 mm per day from last week of September to end of December. From January, it was increasing from 5mm to 8mm. Maximum evaporation was around 9mm per day in the last week of February, middle of June and last week of August.

Wind :

The period between June to September was quite windy when

average daily speed ranged between 11 to 21 km per hour. The prevailing wind direction was S W during this period. A maximum daily average wind of 21.4 km. per hour was recorded during 25th week (June 18-24). The maximum daily wind speed at 1410 hrs was 39km per hour on 7th July. During October to December the prevailing wind was in the NE direction. In the rest of the period the daily average wind speed ranged between 4 to 6km per hour.

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TABLE 3. Meteorological data for Coimbatore Centre: 1980 (Weekly average)

Std. week	Dates	Rain fall (mm)	Rainy days	Temperature °C		Rela. Hum %		Snn- shine (hrs)	Eva- pora tion (mm)	Wind Velo- city km/hr.
				Max.	Min.	0722 hrs.	1422 hrs.			
1.	Jan. 1-7	-	-	29.4	16.6	85	43	10.3	5.0	5.9
2.	8-14	-	-	29.0	15.7	89	37	10.0	5.3	6.5
3.	15-21	-	-	29.1	17.4	85	38	10.0	5.6	7.3
4.	22-28	-	-	30.0	14.7	85	30	10.8	6.1	5.9
5.	Feb. 29-4	-	-	30.8	17.1	81	31	8.9	6.5	5.1
6.	4-11	-	-	31.5	17.8	85	31	9.6	6.6	6.4
7.	12-18	-	-	32.0	16.8	85	29	10.0	6.4	6.4
8.	19-25	-	-	33.3	16.5	81	31	11.2	8.0	7.1
9.	Mar. 26-4	-	-	34.7	16.3	85	32	10.6	7.3	5.9
10.	5-11	5.9	1	34.9	19.5	84	32	9.0	6.9	5.5
11.	12-18	19.0	2	32.3	19.9	86	36	9.8	6.1	5.8
12.	19-25	-	-	34.9	17.2	75	21	11.1	7.5	5.2
13.	Apr. 26-1	-	-	34.4	21.9	78	37	9.2	6.7	6.1
14.	2-8	3.3	1	34.3	23.6	77	41	7.0	7.3	7.7
15.	9-15	-	-	35.7	23.1	84	40	10.4	7.4	5.4
16.	16-22	16.9	2	34.8	23.2	76	47	7.7	7.3	6.1
17.	23-29	63.9	4	34.8	22.5	88	48	7.2	5.9	6.6
18.	May, 30-6	28.1	1	32.8	23.3	87	47	8.1	5.3	3.1
19.	7-13	10.7	1	35.4	23.5	87	45	8.7	6.3	3.2
20.	14-20	47.8	1	35.1	22.9	89	47	8.4	6.1	3.7
21.	21-27	3.3	1	34.8	23.3	85	48	10.2	6.7	6.7
22.	Jun. 28-3	10.5	2	32.1	22.3	89	59	2.6	6.0	6.8
23.	4-10	11.2	2	30.6	22.5	83	62	4.3	4.5	12.0
24.	11-17	2.8	1	33.1	22.2	74	50	4.4	8.4	13.3
25.	18-24	9.7	2	30.5	23.2	77	66	5.0	6.5	21.4
26.	Jul. 25-1	8.1	1	30.4	22.8	77	67	2.1	6.0	19.3
27.	2-8	21.5	3	29.7	23.1	81	65	5.1	7.3	20.3
28.	9-15	1.0	-	30.9	22.6	84	56	6.2	7.7	14.7
29.	16-22	1.7	-	32.1	21.6	87	47	5.2	6.3	9.2
30.	23-29	1.0	-	31.5	22.5	70	52	4.2	7.9	16.0

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TABLE 3. (Continued)

Std. week	Dates	Rain	Rainy	Temperature °C		Rela	Hum %	Snn-	Eva-	Wind	
		fall (mm)	days	Max. mum	Min. mum	0722 hrs.	1422 hrs.	shine (hrs)	pore tion (mm)	Velo- city km/hr.	
31.	Aug.	30-5	-	-	31.0	22.1	79	51	4.1	7.3	13.2
32.		6-12	-	-	31.7	21.4	82	51	5.4	7.2	10.3
33.		13-19	14.1	2	30.4	22.4	82	57	5.5	6.2	14.1
34.		20-26	1.6	-	31.0	22.8	79	53	6.3	9.4	17.1
35.	Sep.	27-2	-	-	31.8	22.1	75	47	8.1	9.0	14.6
36.		3-9	-	-	31.3	22.3	81	57	5.5	6.8	11.2
37.		10-16	-	-	32.5	20.6	88	46	7.7	7.4	8.8
38.		17-23	56.3	1	32.7	20.8	91	48	8.6	6.9	7.1
39.		24-30	11.6	2	31.1	22.1	91	59	6.6	4.2	5.2
40.	Oct.	1-7	47.1	2	31.7	22.4	88	55	7.5	5.3	5.1
41.		8-14	162.3	5	30.7	21.3	92	68	6.9	4.7	4.6
42.		15-21	1.3	-	30.5	21.6	91	63	4.9	3.7	4.4
43.		22-28	7.2	1	30.4	21.4	91	62	8.1	3.7	4.1
44.	Nov.	29-4	-	-	31.1	19.1	85	38	10.1	5.0	4.7
45.		5-11	46.3	1	30.6	19.8	90	52	8.2	3.2	4.4
46.		12-18	125.9	6	28.0	21.9	95	75	3.8	3.5	5.2
47.		19-25	3.7	1	28.7	20.4	91	56	7.8	3.2	4.4
48.	Dec.	26-2	0.8	-	29.1	18.5	87	53	9.4	4.0	4.7
49.		3-9	5.6	-	29.9	19.6	88	52	8.5	4.2	3.7
50.		10-16	-	-	30.5	19.6	89	45	9.2	4.4	4.6
51.		17-23	-	-	29.3	18.4	86	55	5.8	3.4	6.1
52.		24-31	-	-	29.3	18.8	89	47	7.4	3.6	5.6