

Annexure I. Abiotic factors during the period of study, 2014 at Coimbatore

Month	Standard week	Abiotic factors										
		Temperature (°C)		Relative Humidity (%)		Wind (km/h)	Sun shine (h)	Rainfall (mm)	Evaporation (mm)			
		Maximum	Minimum	Morning	Evening							
January	1	30.09	18.30	87.29	37.43	5.69	8.50	0.00	4.80			
	2	30.04	21.81	83.00	45.43	6.66	7.26	0.00	5.03			
	3	30.03	20.89	80.71	46.00	6.81	6.67	0.00	4.73			
	4	29.94	19.89	83.71	40.86	7.26	8.20	0.00	5.11			
February	5	30.80	19.13	82.29	39.00	6.03	9.03	0.00	5.54			
	6	33.19	16.94	71.29	25.86	4.59	10.29	0.00	6.43			
	7	33.01	21.46	81.14	44.29	5.31	7.01	0.00	5.77			
	8	31.76	22.39	80.71	46.71	6.61	5.59	0.03	5.31			
March	9	32.80	22.84	80.86	47.00	6.09	6.87	0.00	5.63			
	10	32.61	23.17	80.14	46.29	7.10	6.47	0.00	5.91			
	11	34.24	20.49	72.57	26.29	7.66	10.21	0.00	7.43			
	12	36.30	23.26	71.57	29.71	5.63	10.18	0.00	7.71			
	13	36.23	21.43	69.71	26.29	6.33	9.66	0.00	8.29			
April	14	36.74	25.11	71.43	39.00	5.86	9.33	0.00	7.26			
	15	35.94	24.16	83.29	40.86	4.50	6.59	2.49	6.43			
	16	35.93	24.24	83.57	37.57	4.71	8.94	0.00	6.86			
	17	36.63	25.84	83.00	40.14	4.54	5.79	0.00	6.74			
	18	36.37	25.87	75.71	41.29	5.77	6.09	0.00	7.23			
	19	31.16	23.80	89.57	64.86	6.37	5.29	8.91	3.97			
May	20	35.01	24.07	85.29	48.29	4.60	8.97	0.03	6.03			
	21	34.83	24.44	86.14	51.29	5.54	6.69	5.74	6.26			
	22	34.39	24.27	87.43	56.86	5.50	7.44	3.49	6.00			
	23	32.97	24.49	76.86	52.14	8.56	8.90	0.00	7.54			
	24	32.79	24.37	74.71	50.43	11.54	8.33	0.00	8.51			
June	25	31.20	24.46	73.70	55.70	14.40	5.37	1.31	7.74			
	26	33.87	23.60	86.57	50.00	6.14	6.86	0.00	6.66			

Month	Standard week	Abiotic factors									
		Temperature (°C)		Relative Humidity (%)		Wind (km/h)	Sun shine (h)	Rainfall (mm)	Evaporation (mm)		
		Maximum	Minimum	Morning	Evening						
July	27	32.93	22.90	82.57	54.43	6.64	6.71	0.07	5.74		
	28	29.60	22.99	76.57	62.71	14.36	1.87	1.71	5.71		
	29	29.87	23.53	76.43	61.57	16.94	4.56	2.19	6.59		
	30	29.93	23.70	74.43	60.29	14.53	4.00	1.66	6.63		
	31	29.56	23.20	78.14	63.14	14.56	3.91	3.26	4.95		
August	32	30.10	22.84	84.14	58.71	8.83	3.44	0.14	5.17		
	33	31.17	22.67	91.00	57.86	5.20	12.40	6.59	4.87		
	34	31.89	23.26	85.71	56.14	6.32	7.33	0.97	5.89		
	35	29.74	23.73	67.61	63.00	14.39	4.01	0.69	6.33		
	36	30.83	23.11	81.29	54.00	11.50	6.23	0.00	6.56		
September	37	32.31	22.00	85.00	52.43	7.44	8.46	0.43	5.83		
	38	32.66	22.34	85.86	49.86	7.76	8.19	1.09	6.40		
	39	32.30	22.97	90.71	61.00	4.79	7.04	10.84	5.59		
	40	31.74	22.97	92.14	59.29	3.69	7.21	10.66	3.97		
	41	31.04	22.60	92.14	62.00	3.70	6.04	3.89	4.03		
October	42	29.14	22.30	94.00	80.17	4.76	3.11	22.10	3.54		
	43	28.69	22.44	93.71	70.29	3.94	5.21	10.00	3.14		
	44	29.09	22.06	92.14	66.43	2.67	3.14	3.66	2.77		
	45	31.37	20.21	92.86	51.29	2.46	6.09	0.00	3.43		
	46	29.79	22.11	89.14	61.57	6.27	5.87	0.31	3.97		
November	47	29.13	21.99	89.29	56.71	5.91	3.53	0.17	4.17		
	48	27.59	20.50	84.14	55.43	4.04	1.50	0.03	3.03		
	49	29.27	19.16	90.00	52.29	4.27	6.54	0.00	3.97		
	50	28.73	22.49	90.57	66.00	5.00	4.10	1.51	2.97		
	51	28.27	21.46	87.29	61.57	6.50	3.84	0.27	3.11		
December	52	28.99	20.74	90.0	57.0	4.1	3.36	0.45	3.28		

Annexure II. Abiotic factors during the period of study, 2015 at Coimbatore

Month	Standard week	Abiotic factors									
		Temperature (°C)		Relative Humidity (%)		Wind (km/h)	Sun shine (h)	Rainfall (mm)	Evaporation (mm)		
		Maximum	Minimum	Morning	Evening						
January	1	30.93	19.76	90.43	47.43	4.04	8.07	0.00	4.14		
	2	29.77	18.11	86.71	42.86	4.57	8.09	0.00	3.94		
	3	29.84	19.11	82.57	48.00	4.33	7.36	0.00	4.29		
	4	30.09	20.09	84.71	48.00	6.14	7.81	0.00	4.66		
	5	29.90	20.51	85.57	44.71	6.50	6.87	0.00	4.54		
February	6	30.96	19.46	81.14	40.00	6.04	7.80	0.00	5.77		
	7	33.04	20.16	79.29	33.43	5.20	9.17	0.00	5.54		
	8	32.98	18.29	75.57	23.71	6.33	10.57	0.00	6.34		
	9	33.70	23.06	83.43	43.71	4.97	6.94	0.23	5.89		
	10	33.73	22.64	81.43	38.71	6.30	8.44	0.23	5.83		
March	11	33.24	23.24	79.29	37.43	7.24	8.44	0.07	6.33		
	12	36.09	22.33	78.14	27.14	5.00	9.81	0.00	6.86		
	13	35.16	24.60	79.71	33.14	6.46	8.17	0.00	7.03		
	14	36.16	25.46	80.14	39.57	4.93	7.27	0.00	6.69		
	15	34.21	24.10	80.71	45.86	5.39	6.56	0.94	6.23		
April	16	33.30	23.37	88.57	52.00	5.00	5.76	5.60	5.57		
	17	33.47	22.86	88.00	49.14	4.33	9.00	2.41	5.56		
	18	34.89	24.04	84.00	53.57	4.73	7.53	3.23	6.37		
	19	33.90	23.70	91.71	64.00	3.60	4.21	7.69	4.26		
	20	30.23	23.14	94.00	72.14	3.80	3.36	15.03	3.60		
May	21	33.90	23.70	90.14	52.71	4.37	8.20	0.00	5.11		
	22	32.54	23.29	89.43	60.71	5.11	6.46	2.06	5.03		
	23	33.64	23.89	82.29	49.86	6.60	7.61	0.00	6.37		
	24	33.31	23.27	82.57	45.57	7.74	5.51	0.29	6.34		
	25	30.51	23.89	82.00	66.57	14.06	3.47	5.49	6.11		
June	26	31.34	24.06	77.00	56.14	11.49	7.74	0.93	6.21		

Month	Standard week	Abiotic factors									
		Temperature (°C)		Relative Humidity (%)		Wind (km/h)	Sun shine (h)	Rainfall (mm)	Evaporation (mm)		
		Maximum	Minimum	Morning	Evening						
July	27	33.11	22.41	84.00	45.57	8.10	9.81	0.00	7.43		
	28	32.63	23.13	87.57	48.86	8.06	6.09	0.00	6.57		
	29	30.93	23.11	83.57	59.43	9.84	3.89	0.60	5.83		
	30	31.90	22.94	85.57	46.43	9.60	7.21	0.13	6.81		
	31	32.37	22.51	89.00	51.00	6.34	6.93	0.00	5.91		
	32	32.34	24.11	76.43	49.71	12.19	8.03	0.06	8.17		
	33	32.11	23.56	90.71	58.29	6.40	6.81	3.67	5.84		
August	34	32.23	22.93	91.00	53.43	5.56	6.81	0.29	5.46		
	35	33.13	22.69	85.29	44.43	7.33	9.19	0.03	6.97		
	36	32.70	23.94	88.00	50.14	5.69	7.19	0.29	5.43		
	37	32.47	24.41	71.71	41.14	13.33	9.00	0.00	8.37		
September	38	33.00	23.93	79.57	47.29	10.29	7.24	0.00	7.86		
	39	33.56	23.11	90.57	49.43	4.96	7.54	9.14	6.11		
	40	31.06	23.10	90.14	57.29	5.10	6.49	1.80	4.97		
October	41	31.19	23.17	84.71	55.29	6.63	8.59	3.77	6.03		
	42	32.30	23.61	84.86	50.00	4.81	8.70	0.00	5.51		
	43	31.53	23.26	87.29	48.29	4.24	5.37	0.17	5.00		
	44	31.33	22.79	90.14	59.29	4.21	6.26	17.66	4.87		
November	45	28.36	22.39	94.29	76.57	3.49	2.89	7.30	3.70		
	46	27.56	21.84	94.57	69.71	3.17	2.51	1.80	2.37		
	47	28.17	22.89	93.00	75.71	5.57	3.83	2.80	2.63		
December	48	29.23	20.43	91.71	63.86	4.26	5.30	1.40	3.74		
	49	27.31	22.26	89.71	70.57	6.61	2.50	3.33	3.19		
	50	29.29	23.23	90.43	70.00	4.89	3.69	0.06	2.94		
	51	29.54	20.84	90.57	57.43	5.24	8.66	0.00	3.89		
	52	30.13	19.94	88.50	46.50	6.48	8.21	0.00	4.89		

Annexure III. Abiotic factors during the period of study, 2015 and January, 2016 at (Udhagamandalam), Ooty

Month	Standard week	Abiotic factors									
		Temperature (°C)		Relative Humidity (%)		Wind (km/h)		Rainfall (mm)			
		Maximum	Minimum	Morning	Evening	Morning	Evening	Morning	Evening		
January	1	19.49	6.51	89.43	96.86	2.86	8.57	0.00	0.00		
	2	19.89	6.11	82.57	92.86	2.86	8.57	0.00	0.00		
	3	20.49	6.66	81.29	93.86	5.71	2.86	0.00	0.00		
February	4	19.14	5.46	82.29	87.29	5.71	5.71	0.00	0.00		
	5	20.29	7.09	69.71	83.71	5.71	8.57	0.00	0.00		
	6	19.91	7.29	67.86	85.57	2.86	2.86	0.00	0.00		
	7	19.77	7.17	82.29	85.57	11.43	8.57	0.20	0.20		
March	8	20.06	6.09	66.43	89.57	14.29	8.57	0.00	0.00		
	9	20.89	9.23	88.43	89.43	2.86	0.00	2.97	2.97		
	10	20.23	9.09	76.29	86.86	8.57	11.43	2.11	2.11		
April	11	20.71	9.31	87.14	86.14	17.14	5.71	6.37	6.37		
	12	22.57	9.26	89.57	90.86	8.57	0.00	0.00	0.00		
	13	22.34	9.74	81.71	88.00	11.43	0.00	0.46	0.46		
	14	22.43	11.00	87.00	88.14	5.71	8.57	2.40	2.40		
May	15	19.91	10.43	87.00	93.29	17.14	5.71	17.20	17.20		
	16	20.00	10.89	79.14	83.57	8.57	8.57	10.85	10.85		
	17	21.43	11.23	69.71	76.33	14.29	14.29	11.65	11.65		
	18	22.37	11.20	72.83	75.14	2.86	8.57	2.73	2.73		
June	19	20.97	11.89	66.57	78.57	8.57	2.86	8.68	8.68		
	20	20.17	13.40	75.00	81.86	8.57	2.86	11.00	11.00		
	21	24.43	12.57	46.00	76.14	2.86	0.00	0.00	0.00		
	22	23.51	11.91	64.00	75.86	2.86	5.71	9.80	9.80		
June	23	22.46	11.71	62.71	81.57	2.86	14.29	8.30	8.30		
	24	21.66	11.29	69.14	84.14	8.57	11.43	2.60	2.60		
	25	16.06	11.40	88.00	89.71	17.14	17.14	19.57	19.57		
	26	17.69	11.83	74.29	75.71	5.71	14.29	2.54	2.54		

Month	Standard week	Abiotic factors										Rainfall (mm)
		Temperature (°C)		Relative Humidity (%)		Wind (km/h)		Relative Humidity (%)		Wind (km/h)		
		Maximum	Minimum	Morning	Evening	Morning	Evening	Morning	Evening	Morning	Evening	
July	27	20.69	10.17	59.57	62.14	14.29	17.14	14.29	17.14	0.00		
	28	20.11	11.46	76.33	79.67	8.57	14.29	8.57	14.29	2.95		
	29	17.77	11.34	82.29	84.14	8.57	8.57	8.57	8.57	3.90		
	30	20.57	11.60	72.43	75.29	5.71	2.86	5.71	2.86	1.33		
August	31	20.73	10.73	69.71	78.14	2.86	17.14	2.86	17.14	0.80		
	32	19.77	11.14	62.29	71.29	17.14	5.71	17.14	5.71	1.35		
	33	20.23	11.63	62.00	85.29	5.71	2.86	5.71	2.86	6.53		
	34	20.31	10.69	62.71	73.57	8.57	5.71	8.57	5.71	7.10		
	35	21.66	10.20	60.57	61.00	5.71	5.71	5.71	5.71	0.70		
	36	20.26	11.71	63.43	76.71	2.86	5.71	2.86	5.71	6.47		
September	37	21.49	10.57	51.71	69.86	17.14	8.57	17.14	8.57	0.00		
	38	21.09	11.29	59.14	82.14	8.57	8.57	8.57	8.57	1.10		
	39	21.06	11.06	63.00	89.29	2.86	5.71	2.86	5.71	9.43		
	40	19.89	11.17	71.29	84.57	2.86	2.86	2.86	2.86	6.37		
October	41	21.23	11.06	62.14	72.14	5.71	5.71	5.71	5.71	29.30		
	42	20.49	10.06	45.43	64.57	2.86	2.86	2.86	2.86	5.40		
	43	20.26	9.51	54.57	77.71	5.71	0.00	5.71	0.00	1.80		
November	44	19.37	11.03	65.71	80.43	0.00	5.71	0.00	5.71	12.67		
	45	17.60	10.71	75.43	90.14	8.57	11.71	8.57	11.71	19.03		
	46	16.46	10.63	84.14	88.43	5.71	2.86	5.71	2.86	5.89		
	47	17.00	9.51	79.29	87.29	8.57	8.57	8.57	8.57	19.63		
	48	20.06	8.69	63.43	83.14	5.71	8.57	5.71	8.57	19.90		
December	49	17.57	11.31	80.86	89.43	17.14	5.71	17.14	5.71	8.86		
	50	19.20	10.06	74.29	80.86	5.71	2.86	5.71	2.86	1.24		
	51	19.60	6.74	52.14	55.00	14.29	5.71	14.29	5.71	0.00		
	52	20.11	7.77	40.71	60.00	14.29	8.57	14.29	8.57	0.00		
January, 2016	1	20.70	5.14	44.43	54.29	16.67	2.86	16.67	2.86	6.77		
	2	19.74	7.23	46.86	63.57	8.57	5.71	8.57	5.71	3.14		

Annexure IV. Standard Meteorological Weeks (SMW)

Week No.	Date and Months	Week No.	Date and Months
1	01 January – 07 January	27	02 July – 08 July
2	08 January – 14 January	28	09 July – 15 July
3	15 January – 21 January	29	16 July – 22 July
4	22 January – 28 January	30	23 July – 29 July
5	29 January – 04 February	31	30 July – 05 August
6	05 February – 11 February	32	06 August – 12 August
7	12 February – 18 February	33	13 August – 19 August
8	19 February – 25 February	34	20 August – 26 August
9*	26 February – 04 March	35	27 August – 02 September
10	05 March – 11 March	36	03 September – 09 September
11	12 March – 18 March	37	10 September – 16 September
12	19 March – 25 March	38	17 September – 23 September
13	26 March – 01 April	39	24 September – 30 September
14	02 April – 08 April	40	01 October – 07 October
15	09 April – 15 April	41	08 October – 14 October
16	16 April – 22 April	42	15 October – 21 October
17	23 April – 29 April	43	22 October – 28 October
18	30 April – 06 May	44	29 October – 04 November
19	07 May – 13 May	45	05 November – 11 November
20	14 May – 20 May	46	12 November – 18 November
21	21 May – 27 May	47	19 November – 25 November
22	28 May – 03 June	48	26 November – 02 December
23	04 June – 10 June	49	03 December – 09 December
24	11 June – 17 June	50	10 December – 16 December
25	18 June – 24 June	51	17 December – 23 December
26	25 June – 01 July	52**	24 December – 31 December

*- Week No. 9 will be 8 days during leap year; ** - Week No. 52 will always have 8 days