

TABLES

Table -IV. 1. Seasonal mean concentration and percentage contribution of different biocomponents to the total airspora during 1st November 2007 to 15th June 2008.

Sr. No.	Name of Biocomponents	Seasonal Mean concentration Number/m ³	% Contribution to the total airspora
1	<i>Nigrospora</i>	29632	12.000
2	Smut spores	28995	11.742
3	<i>Alternaria</i>	28437	11.516
4	<i>Cladosporium</i>	23667	9.584
5	Pollen grains	16091	6.516
6	Uredospores	15346	6.214
7	Hyphal fragments	15076	6.105
8	<i>Sclerospora</i> (Oospores)	10756	4.355
9	<i>Epicoccum</i>	7998	3.239
10	<i>Pithomyces</i>	7833	3.172
11	<i>Curvularia</i>	7747	3.137
12	Unidentified spores	7369	2.984
13	Insect Parts & Scales	6336	2.566
14	<i>Helminthosporium</i>	5646	2.286
15	<i>Aspergillus</i>	5466	2.213
16	<i>Phaeotrichoconis</i>	3895	1.577
17	<i>Dictyoarthrinium</i>	3847	1.558
18	<i>Torula</i>	3299	1.336
19	<i>Tetraploa</i>	2972	1.203
20	<i>Heterosporium</i>	1672	0.677
21	<i>Spegazzinia</i>	1632	0.661
22	<i>Bispora</i>	1473	0.596
23	<i>Leptosphaeria</i>	1423	0.576
24	<i>Cercospora</i>	1150	0.466
25	<i>Teichospora</i>	889	0.360

26	<i>Cordana</i>	857	0.347
27	<i>Hysterium</i>	780	0.316
28	<i>Corynespora</i>	765	0.310
29	<i>Fusariella</i>	730	0.296
30	<i>Botryodiplodia</i>	605	0.245
31	<i>Diplodia</i>	591	0.239
32	<i>Sporidesmium</i>	512	0.207
33	<i>Chaetomium</i>	495	0.201
34	<i>Beltrania</i>	401	0.162
35	<i>Haplosporella</i>	237	0.096
36	<i>Bitrimonospora</i>	218	0.088
37	<i>Periconia</i>	206	0.083
38	<i>Melanospora</i>	192	0.078
39	<i>Sporormia</i>	164	0.066
40	<i>Lacellinopsis</i>	146	0.059
41	<i>Cunninghamella</i>	144	0.058
42	<i>Sirodesmium</i>	142	0.058
43	<i>Trichoconis</i>	140	0.057
44	<i>Pleospora</i>	134	0.054
45	<i>Oidium</i>	129	0.052
46	<i>Chaetomella</i>	105	0.042
47	<i>Pleomassaria</i>	103	0.042
48	<i>Memnoniella</i>	102	0.041
49	<i>Pestalotia</i>	71	0.029
50	<i>Exosporium</i>	61	0.025
51	<i>Hypoxylon</i>	49	0.020
52	<i>Brachysporium</i>	48	0.019
53	<i>Spicaria</i>	38	0.015
54	<i>Lophiostoma</i>	33	0.013
55	<i>Massaria</i>	32	0.013
56	<i>Emericella</i>	31	0.013
57	<i>Beltraniella</i>	21	0.009
58	<i>Valsaria</i>	17	0.007

**Table -IV. 2. Mean concentration and percentage contribution of different biocomponents to the total airspora
Rabbi Season (Wheat) - 1st Nov. 2007 to 28th Feb. 2008.
Summer Season (Groundnut) - 1st March 2008 to 15th June 2008.**

Sr. No.	Name of Biocomponents	Mean Concentration		% Contribution to the total airspora	
		Wheat	Groundnut	Wheat	Groundnut
1	<i>Nigrospora</i>	35768	23497	12.995	10.555
2	Smut spores	34718	23273	12.614	10.455
3	<i>Alternaria</i>	30282	26593	11.002	11.946
4	<i>Cladosporium</i>	22829	24506	8.294	11.009
5	Hyphal fragments	18250	11903	6.630	5.347
6	Pollen grains	18039	14143	6.554	6.353
7	<i>Uredospores</i>	17639	13053	6.408	5.864
8	<i>Sclerospora</i> (Oospores)	11460	10051	4.164	4.515
9	<i>Curvularia</i>	9522	5973	3.459	2.683
10	<i>Epicoccum</i>	7859	8137	2.855	3.655
11	<i>Pithomyces</i>	7396	8271	2.687	3.715
12	Unidentified spores	7373	7364	2.679	3.308
13	Insect Parts & Scales	6689	5983	2.430	2.688
14	<i>Helminthosporium</i>	6440	4852	2.340	2.179
15	<i>Aspergillus</i>	5968	4964	2.168	2.230
16	<i>Phaeotrichoconis</i>	4630	3161	1.682	1.420
17	<i>Dictyoarthrinium</i>	4461	3234	1.621	1.453
18	<i>Torula</i>	3702	2896	1.345	1.301
19	<i>Tetraploa</i>	3224	2720	1.171	1.222
20	<i>Spegazzinia</i>	1798	1467	0.653	0.659
21	<i>Heterosporium</i>	1746	1599	0.634	0.718
22	<i>Leptosphaeria</i>	1571	1276	0.571	0.573
23	<i>Bispora</i>	1553	1393	0.564	0.626
24	<i>Cercospora</i>	1178	1122	0.428	0.504
25	<i>Fusariella</i>	1036	424	0.376	0.190
26	<i>Teichospora</i>	1013	766	0.368	0.344

27	<i>Cordana</i>	937	777	0.340	0.349
28	<i>Corynespora</i>	911	619	0.331	0.278
29	<i>Hysterium</i>	896	664	0.325	0.298
30	<i>Diplodia</i>	830	352	0.301	0.158
31	<i>Sporidesmium</i>	600	424	0.218	0.190
32	<i>Botryodiplodia</i>	591	620	0.215	0.278
33	<i>Chaetomium</i>	500	490	0.182	0.220
34	<i>Beltrania</i>	472	330	0.171	0.148
35	<i>Bitrimerospora</i>	331	105	0.120	0.047
36	<i>Periconia</i>	301	111	0.109	0.050
37	<i>Haplosporella</i>	282	191	0.102	0.086
38	<i>Oidium</i>	258	-	0.094	-
39	<i>Melanospora</i>	252	133	0.092	0.060
40	<i>Memnoniella</i>	204	-	0.074	-
41	<i>Sporormia</i>	190	137	0.069	0.061
42	<i>Lacellinopsis</i>	186	106	0.067	0.047
43	<i>Trichoconis</i>	145	136	0.053	0.061
44	<i>Pestalotia</i>	143	-	0.052	-
45	<i>Pleospora</i>	140	128	0.051	0.058
46	<i>Cunninghamella</i>	134	155	0.049	0.069
47	<i>Chaetomella</i>	127	82	0.046	0.037
48	<i>Sirodesmium</i>	124	161	0.045	0.072
49	<i>Exosporium</i>	122	-	0.044	-
50	<i>Brachysporium</i>	96	-	0.035	-
51	<i>Pleomassaria</i>	81	125	0.030	0.056
52	<i>Massaria</i>	65	-	0.024	-
53	<i>Emericella</i>	62	-	0.022	-
54	<i>Hypoxylon</i>	51	48	0.019	0.021
55	<i>Beltraniella</i>	42	-	0.015	0.000
56	<i>Valsaria</i>	34	-	0.012	-
57	<i>Lophiostoma</i>	-	65	-	0.029
58	<i>Spicaria</i>	-	76	-	0.034

Table -IV. 3. Monthwise average percentage contribution of different biocomponents to the total airspora.

Rabbi Season (Wheat) - 1st Nov. 2007 to 28th Feb. 2008.

Summer Season (Groundnut) - 1st March 2008 to 15th June 2008.

Sr. No.	Name of Biocomponents	Monthwise Average % contribution to the total airspora							
		Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1	<i>Nigrospora</i>	32.55	28.21	20.65	18.59	26.41	29.78	23.34	20.47
2	Smut spores	29.81	28.27	20.85	21.07	19.68	16.40	30.33	33.59
3	<i>Alternaria</i>	29.93	27.21	23.91	18.96	19.11	29.68	18.35	32.86
4	Hyphal fragments	30.50	34.42	18.02	17.06	35.04	19.44	24.25	21.27
5	<i>Cladosporium</i>	20.40	23.46	29.04	27.11	25.63	28.37	24.16	21.84
6	Pollen grains	22.95	26.81	24.70	25.54	34.79	19.47	27.87	17.86
7	<i>Curvularia</i>	22.49	23.51	25.16	28.85	27.82	22.89	32.03	17.26
8	Unidentified spores	28.23	30.36	23.59	17.83	14.00	25.17	27.17	33.66
9	<i>Aspergillus</i>	24.68	10.42	40.85	24.05	16.40	26.27	20.86	36.47
10	<i>Torula</i>	37.58	22.45	17.96	22.02	33.97	28.13	16.82	21.08
11	<i>Pithomyces</i>	23.52	21.37	28.23	26.88	24.53	26.57	25.23	23.66
12	<i>Phaeotrichoconis</i>	35.27	34.60	23.28	6.84	13.59	20.73	25.32	40.37
13	<i>Epicoccum</i>	17.99	19.22	29.94	32.85	26.77	28.45	21.28	23.50
14	<i>Spegazzinia</i>	36.48	30.43	14.20	18.89	19.21	26.72	25.27	28.80
15	<i>Helminthosporium</i>	29.55	31.71	21.81	16.92	19.92	35.34	25.33	19.41
16	<i>Tetraploa</i>	24.57	27.33	25.13	22.97	24.09	24.95	22.62	28.33
17	<i>Dictyoarthrinium</i>	43.80	36.35	19.85	-	14.39	21.10	31.93	32.58
18	<i>Cercospora</i>	32.85	28.30	-	38.85	29.45	24.39	18.10	28.07
19	<i>Heterosporium</i>	31.22	27.99	21.58	19.21	32.62	20.17	20.41	26.80
20	<i>Sclerospora</i> (Oospores)	33.30	20.25	22.14	24.31	22.36	32.74	20.24	24.67
21	<i>Leptosphaeria</i>	25.95	23.32	22.11	28.62	19.42	21.38	29.85	29.36
22	<i>Uredospores</i>	22.62	30.69	26.25	20.44	28.07	25.91	23.49	22.53
23	<i>Hysterium</i>	30.43	31.41	26.58	11.59	23.54	21.13	24.63	30.70
24	<i>Cordana</i>	26.57	26.79	23.77	22.87	18.69	23.19	28.34	29.78
25	Insect Parts & Scales	26.07	21.95	25.38	26.59	28.65	20.01	24.51	26.83

26	<i>Bispora</i>	19.40	16.13	32.58	31.89	32.68	21.04	26.97	19.32
27	<i>Fusariella</i>	28.76	25.93	24.03	21.28	35.85	28.95	18.93	16.27
28	<i>Lacellinopsis</i>	29.65	42.99	14.02	13.34	22.75	20.14	21.80	35.31
29	<i>Sporidesmium</i>	26.06	34.86	21.35	17.72	18.16	13.33	30.54	37.97
30	<i>Beltrania</i>	23.91	36.32	20.78	18.98	9.48	18.50	31.92	40.11
31	<i>Botryodiplodia</i>	38.02	33.49	28.49	-	14.12	17.51	28.81	39.55
32	<i>Chaetomium</i>	30.40	16.00	24.75	28.85	23.25	18.82	27.23	30.70
33	<i>Trichoconis</i>	41.65	34.08	24.27	-	19.00	29.34	21.96	29.70
34	<i>Chaetomella</i>	31.24	25.93	24.36	18.47	15.90	6.42	34.86	42.81
35	<i>Diplodia</i>	33.60	27.76	14.10	24.53	32.29	23.33	20.55	23.83
36	<i>Periconia</i>	35.02	36.19	19.05	9.73	13.71	-	33.71	52.58
37	<i>Bitrimonospora</i>	30.08	35.68	21.54	12.70	-	21.77	26.79	51.44
38	<i>Memnoniella</i>	45.28	34.48	20.25	-	-	-	-	-
39	<i>Oidium</i>	31.46	33.69	16.36	18.49	-	-	-	-
40	<i>Corynespora</i>	36.26	38.57	25.17	-	-	50.95	34.48	14.57
41	<i>Sirodesmium</i>	47.68	52.32	-	-	19.63	16.51	29.75	34.11
42	<i>Brachysporium</i>	31.15	28.53	21.73	18.59	-	-	-	-
43	<i>Haplosporella</i>	29.26	36.79	22.25	11.70	18.98	25.65	21.60	33.77
44	<i>Cunninghamella</i>	-	-	54.95	45.05	28.48	-	31.39	40.13
45	<i>Hypoxylon</i>	33.66	28.29	38.05	-	36.32	25.26	-	38.42
46	<i>Pleospora</i>	23.79	26.65	28.62	20.93	24.56	21.83	24.76	28.85
47	<i>Melanospora</i>	43.06	33.63	12.80	10.52	18.68	19.25	21.51	40.57
48	<i>Teichospora</i>	27.75	30.34	24.34	17.58	21.29	19.24	26.42	33.05
49	<i>Pestalotia</i>	51.23	27.02	21.75	-	-	-	-	-
50	<i>Sporormia</i>	37.84	45.34	16.82	0.00	20.84	28.52	22.85	27.79
51	<i>Exosporium</i>	33.95	27.16	22.22	16.67	-	-	-	-
52	<i>Pleomassaria</i>	47.08	52.92	-	-	27.94	27.54	24.15	20.36
53	<i>Massaria</i>	54.83	45.17	-	-	-	-	-	-
54	<i>Emericella</i>	36.03	44.94	19.03	-	-	-	-	-
55	<i>Beltraniella</i>	42.60	-	34.91	22.49	-	-	-	-
56	<i>Valsaria</i>	52.21	-	47.79	-	-	-	-	-
57	<i>Lophiostoma</i>	-	-	-	-	22.31	14.62	25.77	37.31
58	<i>Spicaria</i>	-	-	--	-	21.85	16.23	28.15	33.77

Table -IV. 4. Monthly percentage contribution of different biocomponents to the total airspora
Rabbi Season (Wheat) - 1st Nov. 2007 to 28th Feb. 2008.
Summer Season (Groundnut) - 1st March 2008 to 15th June 2008.

Sr. No	Name of Biocomponents	Monthly % contribution to the total airspora							
		Nov.	Dec.	Jan.	Feb.	Mar.	April	May	June
1	<i>Nigrospora</i>	15.06	13.55	11.37	11.36	11.64	12.64	10.30	8.48
2	Smut spores	13.38	13.18	11.15	12.50	8.59	6.89	13.25	13.79
3	<i>Alternaria</i>	11.72	11.07	11.15	9.81	9.53	14.26	9.16	15.41
4	Hyphal fragments	7.20	8.44	5.06	5.32	7.82	4.18	5.42	4.46
5	<i>Cladosporium</i>	6.02	7.19	10.21	10.58	11.78	12.56	11.12	9.44
6	Pollen grains	5.35	6.50	6.86	7.87	9.23	4.97	7.40	4.46
7	<i>Curvularia</i>	2.77	3.01	3.69	4.69	3.12	2.47	3.59	1.82
8	Unidentified spores	2.69	3.01	2.68	2.25	1.93	3.35	3.76	4.37
9	<i>Aspergillus</i>	1.91	0.84	3.75	2.45	1.53	2.36	1.94	3.19
10	<i>Torula</i>	1.80	1.12	1.02	1.39	1.85	1.47	0.91	1.08
11	<i>Pithomyces</i>	2.25	2.12	3.21	3.40	3.81	3.97	3.92	3.45
12	<i>Phaeotrichoconis</i>	2.11	2.15	1.66	0.54	0.81	1.18	1.50	2.25
13	<i>Epicoccum</i>	1.83	2.03	3.62	4.41	4.09	4.18	3.25	3.37
14	<i>Spegazzinia</i>	0.85	0.73	0.39	0.58	0.53	0.71	0.70	0.75
15	<i>Helminthosporium</i>	2.46	2.74	2.16	1.86	1.81	3.10	2.31	1.66
16	<i>Tetraploa</i>	1.02	1.18	1.25	1.27	1.23	1.23	1.15	1.36
17	<i>Dictyoarthrinium</i>	2.53	2.18	1.36	0.00	0.87	1.23	1.94	1.86
18	<i>Cercospora</i>	0.50	0.45	0.00	0.78	0.62	0.49	0.38	0.56
19	<i>Heterosporium</i>	0.70	0.66	0.58	0.57	0.98	0.58	0.61	0.76
20	<i>Sclerospora</i> (Oospores)	4.94	3.12	3.91	4.76	4.21	5.94	3.82	4.37
21	<i>Leptosphaeria</i>	0.53	0.49	0.53	0.77	0.46	0.49	0.71	0.66
22	<i>Uredospores</i>	5.16	7.27	7.13	6.16	6.87	6.11	5.76	5.19
23	<i>Hysterium</i>	0.35	0.38	0.37	0.18	0.29	0.25	0.31	0.36
24	<i>Cordana</i>	0.32	0.34	0.34	0.37	0.27	0.33	0.41	0.41
25	Insect Parts & Scales	2.26	1.97	2.61	3.04	3.21	2.16	2.75	2.83

26	<i>Bispora</i>	0.39	0.34	0.78	0.85	0.85	0.53	0.70	0.47
27	<i>Fusariella</i>	0.39	0.36	0.38	0.38	0.29	0.22	0.15	0.12
28	<i>Lacellinopsis</i>	0.07	0.11	0.04	0.04	0.05	0.04	0.04	0.07
29	<i>Sporidesmium</i>	0.20	0.28	0.20	0.18	0.14	0.10	0.24	0.28
30	<i>Beltrania</i>	0.15	0.23	0.15	0.15	0.06	0.11	0.20	0.23
31	<i>Botryodiplodia</i>	0.29	0.27	0.26	-	0.16	0.20	0.34	0.43
32	<i>Chaetomium</i>	0.20	0.11	0.19	0.25	0.21	0.17	0.25	0.27
33	<i>Trichoconis</i>	0.08	0.07	0.05	0.00	0.05	0.07	0.06	0.07
34	<i>Chaetomella</i>	0.05	0.04	0.05	0.04	0.02	0.01	0.05	0.06
35	<i>Diplodia</i>	0.36	0.31	0.18	0.35	0.21	0.15	0.14	0.15
36	<i>Periconia</i>	0.14	0.15	0.09	0.05	0.03	-	0.07	0.10
37	<i>Bitrimonospora</i>	0.13	0.16	0.11	0.07	-	0.04	0.05	0.09
38	<i>Memnoniella</i>	0.12	0.09	0.06	-	-	-	-	-
39	<i>Oidium</i>	0.11	0.12	0.07	0.08	-	-	-	-
40	<i>Corynespora</i>	0.43	0.47	0.35	-	-	0.57	0.40	0.16
41	<i>Sirodesmium</i>	0.08	0.09	-	-	0.06	0.05	0.09	0.10
42	<i>Brachysporium</i>	0.04	0.04	0.03	0.03	-	-	-	-
43	<i>Haplosporella</i>	0.11	0.14	0.10	0.06	0.07	0.09	0.08	0.11
44	<i>Cunninghamella</i>	-	-	0.11	0.10	0.08	-	0.09	0.11
45	<i>Hypoxylon</i>	0.02	0.02	0.03	-	0.03	0.02	-	0.03
46	<i>Pleospora</i>	0.04	0.05	0.06	0.05	0.06	0.05	0.06	0.07
47	<i>Melanospora</i>	0.14	0.11	0.05	0.05	0.05	0.05	0.05	0.09
48	<i>Teichospora</i>	0.36	0.41	0.38	0.30	0.31	0.27	0.38	0.45
49	<i>Pestalotia</i>	0.09	0.05	0.05	-	-	-	-	-
50	<i>Sporormia</i>	0.09	0.12	0.05	-	0.05	0.07	0.06	0.07
51	<i>Exosporium</i>	0.05	0.04	0.04	0.03	-	-	-	-
52	<i>Pleomassaria</i>	0.05	0.06	-	-	0.07	0.06	0.06	0.04
53	<i>Massaria</i>	0.05	0.04	-	-	-	-	-	-
54	<i>Emericella</i>	0.03	0.04	0.02	-	-	-	-	-
55	<i>Beltraniella</i>	0.02	-	0.02	0.02	-	-	-	-
56	<i>Valsaria</i>	0.02	-	0.03	-	-	-	-	-
57	<i>Lophiostoma</i>	-	-	-	-	0.03	0.02	0.03	0.04
58	<i>Spicaria</i>	-	-	-	-	0.03	0.02	0.04	0.04

Table -IV. 5. Seasonal mean concentration and percentage contribution of each spore group and other group to the total airspora during 1st November 2007 to 15th June 2008.

Sr.No.	Name of Spore Group	Seasonal Mean concentration number/m3	% Contribution to the total airspora
1	Zygomycotina	10900	4.41
2	Ascomycotina	4560	1.85
3	Basidiomycotina	39776	16.11
4	Deuteromycotina	132041	53.47
5	Other Types	59668	24.16

Table -IV. 6. Mean concentration and percentage contribution of each spore group and other group to the total airspora.

Rabbi Season (Wheat) - 1st Nov. 2007 to 28th Feb. 2008.

Sr.No.	Name of Spore Group	mean Concentration of Rabbi Season	% Contribution to the total airspora of Rabbi Season
1	Zygomycotina	11594	4.042
2	Ascomycotina	5185	1.808
3	Basidiomycotina	52357	18.255
4	Deuteromycotina	155755	54.306
5	Other <i>h₁ etc</i>	50351	17.556

✓

Table -IV. 7. Mean concentration and percentage contribution of each spore group and other group to the total airspora. Summer Season (Groundnut) - 1st March 2008 to 15th June 2008.

Sr.No.	Name of Spore Group	mean Concentration of Summer Season	% Contribution to the total airspora of Summer Season
1	Zygomycotina	10206	3.602
2	Ascomycotina	3935	1.389
3	Basidiomycotina	27196	9.598
4	Deuteromycotina	108326	38.230
5	Other <i>types</i>	68985	24.346

✓ **Table -IV. 8. Monthly percentage contribution of each spore group and other group to the total airspora.**

Rabbi Season (Wheat) - 1st Nov. 2007 to 28th Feb. 2008.

Summer Season (Groundnut) - 1st March 2008 to 15th June 2008.

Sr. No.	Name of Spore Group	Monthly % contribution to the total airspora							
		Rabbi season (Wheat)				Summer season (Groundnut)			
		Nov	Dec	Jan	Feb	Mar	April	May	June
1	Zygomycotina	4.94	3.16	4.00	4.86	4.30	5.94	3.91	4.48
2	Ascomycotina	2.01	2.01	1.81	1.66	1.56	1.49	1.96	2.17
3	Basidiomycotina	18.55	20.73	18.27	18.66	16.10	11.08	13.16	9.64
4	Deuteromycotina	57.01	55.28	58.68	56.33	45.69	48.33	52.52	51.56
5	Other <i>types</i>	17.50	20.18	17.21	18.48	32.35	33.15	28.45	32.15

**Table -IV. 9. Monthly Variations in Total Spore Count with respect
to Temperature, Humidity and Rainfall**

Month	Temperature (°C)			Humidity (%)			Rain- fall	Spore Count
	Min.	Max.	Mean	Min.	Max.	Mean	(mm)	
Nov.	13.37	30.72	22.05	62	87	74.5	No	309290
Dec.	13.47	29.95	21.71	48.25	88.5	68.38	No	297826
Jan.	10.47	30.45	20.46	35.75	87.8	61.8	No	259795
Feb.	12.68	30.78	21.73	33	80.8	56.88	No	234055
March	16.5	35.36	25.93	26.6	82.2	54.4	54.6	213261
April	19.53	36.95	28.24	26.5	87	56.75	14	221449
May	21.58	38.12	29.85	33.6	85.8	59.7	6	213076
June	21.44	31.72	26.58	69.8	91	80.4	34.28	226801
Total	16.13	33.01	24.57	41.94	86.3	64.1	27.22	1975553