

APPENDIX

Table of Analysis of variance for M₂ Generation

1. Days to 50 per cent flowering

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	1.762	0.881	0.945	3.369	2.056	NS
Due to treatments	13	96.119	7.394	7.931	2.119		S
Due to error	26	24.238	0.932				
Total	41	122.119					

2. Number of primary branches per plants

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.280	0.140	0.861	3.369	2.056	NS
Due to treatments	13	14.736	1.134	6.973	2.119		S
Due to error	26	4.227	0.163				
Total	41	19.243					

3. Number of secondary branches per plants

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.266	0.133	3.787	3.369	2.056	S
Due to treatments	13	4.910	0.378	10.746	2.119		S
Due to error	26	0.914	0.035				
Total	41	6.080					

4. Number of pods per plant

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	6.510	3.255	3.991	3.369	2.056	S
Due to treatments	13	118.957	9.1506	11.221	2.119		S
Due to error	26	21.203	0.816				
Total	41	146.671					

5. Pod length (cm)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.010	0.005	0.104	3.369	2.056	NS
Due to treatments	13	6.662	0.512	10.548	2.119		S
Due to error	26	1.263	0.049				
Total	41	7.935					

6. Number of seeds per pod

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.036	0.018	0.229	3.369	2.056	NS
Due to treatments	13	11.666	0.897	11.526	2.119		S
Due to error	26	2.024	0.078				
Total	41	13.726	0				

7. Plant height (cm)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	33.786	16.893	2.856	3.369016	2.055529	NS
Due to treatments	13	383.254	29.481	4.985	2.119166		S
Due to error	26	153.766	5.914				
Total	41	570.806					

8. Days to maturity

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	2.048	1.024	0.481	3.369	2.056	NS
Due to treatments	13	164.571	12.659	5.953	2.119		S
Due to error	26	55.286	2.126				
Total	41	221.905					

9. Plant stand per plot

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	533.191	266.5952	0.610	3.369	2.056	NS
Due to treatments	13	42748.79	3288.368	7.522	2.119		S
Due to error	26	11366.14	437.1593				
Total	41	54648.12					

10.100 seed weight (g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.7145	0.357	0.678	3.369	2.056	NS
Due to treatments	13	43.131	3.318	6.297	2.119		S
Due to error	26	13.699	0.527				
Total	41	57.544					

11. Biological yield per plant (g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.903	0.452	0.225	3.369	2.056	NS
Due to treatments	13	218.678	16.821	8.365	2.119		S
Due to error	26	52.283	2.011				
Total	41	271.865					

12. Harvest index (per cent)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.451	0.225	0.123	3.369	2.056	NS
Due to treatments	13	133.607	10.277	5.611	2.119		S
Due to error	26	47.624	1.832				
Total	41	181.681					

13. Seed yield per plants (g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	1.180	0.590	0.803	3.369	2.056	NS
Due to treatments	13	67.188	5.168	7.031	2.119		S
Due to error	26	19.113	0.735				
Total	41	87.481					

Table of analysis of variance in M₃ generation

1. Days to 50 per cent flowering

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.143	0.071	0.218	3.369	2.056	NS
Due to treatments	13	35.833	2.756	8.408	2.119		S
Due to error	26	8.524	0.328				
Total	41	44.500					

2. Number of primary branches per plant

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.603	0.302	3.044	3.369	2.056	S
Due to treatments	13	9.841	0.757	7.639	2.119		S
Due to error	26	2.577	0.099				
Total	41	13.021					

3. Number of secondary branches per plant

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.013	0.007	0.157	3.369	2.056	NS
Due to treatments	13	5.525	0.425	9.985	2.119		S
Due to error	26	1.107	0.044				
Total	41	6.644					

4. Number of pods per plants

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	1.201	0.6001	1.601	3.369	2.056	NS
Due to treatments	13	115.399	8.877	23.651	2.119		S
Due to error	26	9.758	0.375				
Total	41	126.359					

5. Pod length (cm)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.048	0.024	0.984	3.369	2.056	NS
Due to treatments	13	7.779	0.598	24.479	2.119		S
Due to error	26	0.636	0.024				
Total	41	8.463					

6. Number of seeds per pod

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.040	0.020	0.206	3.369	2.056	NS
Due to treatments	13	18.263	1.405	14.494	2.119		S
Due to error	26	2.520	0.097				
Total	41	20.823					

7. Plant height (cm)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	13.783	6.892	1.992	3.369	2.056	NS
Due to treatments	13	286.964	22.074	6.382	2.119		S
Due to error	26	89.929	3.459				
Total	41	390.676					

8. Days to maturity

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.762	0.381	1.000	3.369	2.056	NS
Due to treatments	13	32.310	2.485	6.524	2.119		S
Due to error	26	9.905	0.381				
Total	41	42.976					

9. Plant stand per plot

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	777.000	388.500	1.502	3.369	2.056	NS
Due to treatments	13	37561.140	2889.319	11.171	2.119		S
Due to error	26	6725.000	258.654				
Total	41	45063.140					

10. 100 seed weight (g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.265	0.132	0.438	3.369	2.056	NS
Due to treatments	13	35.281	2.714	8.975	2.119		S
Due to error	26	7.862	0.302				
Total	41	43.407					

11. Biological yield per plants (g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	5.063	2.532	1.373	3.369	2.056	NS
Due to treatments	13	302.517	23.271	12.620	2.119		S
Due to error	26	47.943	1.844				
Total	41	355.524					

12. Harvest index (per cent)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	5.812	2.905	1.505	3.369	2.056	NS
Due to treatments	13	172.881	13.299	6.888	2.119		S
Due to error	26	50.194	1.931				
Total	41	228.887					

13. Seed yield per plant (g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	1.094	0.547	1.262	3.369	2.056	NS
Due to treatments	13	65.056	5.004	11.548	2.119		S
Due to error	26	11.267	0.433				
Total	41	77.416					

Table of Analysis of variance for moisture stress condition in M₂ generation

1. Days to 50 per cent flowering

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	5.190	2.595	5.557	3.369	2.055	S
Due to treatments	13	88.571	6.813	14.588	2.119		S
Due to error	26	12.143	0.467				
Total	41	105.905					

2. Number of primary branches per plants

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.116	0.058	0.919	3.369	2.056	NS
Due to treatments	13	7.376	0.567	8.975	2.119		S
Due to error	26	1.644	0.063				
Total	41	9.136					

3. Number of secondary branches per plants

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.360	0.180	2.265	3.369	2.056	NS
Due to treatments	13	3.436	0.264	3.325	2.119		S
Due to error	26	2.067	0.079				
Total	41	5.863					

4. Number of pod per plants

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	1.310	0.655	1.614	3.369	2.056	NS
Due to treatments	13	52.598	4.046	9.965	2.119		S
Due to error	26	10.556	0.406				
Total	41	64.465					

5. Pod length (cm)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.106	0.053	0.510	3.369	2.056	NS
Due to treatments	13	8.056	0.620	5.984	2.119		S
Due to error	26	2.693	0.104				
Total	41	10.854					

6. Number of seeds per pod

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.059	0.030	0.251	3.369	2.056	NS
Due to treatments	13	15.539	1.195	10.153	2.119		S
Due to error	26	3.061	0.118				
Total	41	18.659					

7. Plant height (cm)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	10.898	5.4492	1.668	3.369	2.056	NS
Due to treatments	13	183.058	14.081	4.309	2.119		S
Due to error	26	84.957	3.2676				
Total	41	278.914					

8. Days to maturity

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	9.476	4.738	23.734	3.369	2.056	S
Due to treatments	13	43.452	3.342	16.743	2.119		S
Due to error	26	5.190	0.199				
Total	41	58.119					

9. 100 seed weight

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	2.949	1.474	2.981	3.369	2.056	NS
Due to treatments	13	16.209	1.247	2.521	2.119	0	S
Due to error	26	12.860	0.495				
Total	41	32.019	0				

10. Biological yield per plant (g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	2.543	1.272	0.774	3.369	2.056	NS
Due to treatments	13	200.437	15.418	9.387	2.119		S
Due to error	26	42.703	1.642				
Total	41	245.684					

11. Harvest index (per cent)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	23.561	11.780	0.928	3.369	2.056	NS
Due to treatments	13	385.372	29.644	2.335	2.119		S
Due to error	26	330.046	12.694				
Total	41	738.978					

12. Seed yield per plants (g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	2.028	1.014	1.208	3.369	2.056	NS
Due to treatments	13	48.494	3.730	4.445	2.119		S
Due to error	26	21.818	0.839				
Total	41	72.340					

13. Relative water content (50 per cent flowering stage)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	9.909	4.955	0.563	3.369	2.056	NS
Due to treatments	13	348.566	26.813	3.047	2.119		S
Due to error	26	228.786	8.799				
Total	41	587.261					

14. Relative water content (pod development)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	7.048	3.524	0.879	3.369	2.056	NS
Due to treatments	13	122.500	9.423	2.349	2.119		S
Due to error	26	104.286	4.011				
Total	41	233.833					

15. Soil moisture content (vegetative stage)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	18.504	9.252	7.728	3.369	2.056	S
Due to treatments	13	36.767	2.828	2.362	2.119		S
Due to error	26	31.128	1.197				
Total	41	86.400					

16. Soil moisture content (50 per cent flowering stage)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	2.871	1.435	3.641	3.369	2.056	S
Due to treatments	13	12.252	0.942	2.391	2.119		S
Due to error	26	10.249	0.394				
Total	41	25.371					

17. Soil moisture content (pod development stage)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	1.157	0.579	1.106	3.369	2.056	NS
Due to treatments	13	16.731	1.287	2.459	2.119		S
Due to error	26	13.605	0.523				
Total	41	31.495					

18. Drought tolerance efficiency

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	61.684	30.842	7.751	3.369	2.056	S
Due to treatments	13	147.191	11.322	2.846	2.119		S
Due to error	26	103.454	3.979				
Total	41	312.329					

19. Membrane injury (per cent)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.369	0.185	0.238	3.369	2.056	NS
Due to treatments	13	165.601	12.739	16.452	2.119		S
Due to error	26	20.131	0.774				
Total	41	186.101					

20. Chlorophyll content A (mg/g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.017	0.008	0.354	3.369	2.056	NS
Due to treatments	13	0.712	0.055	2.345	2.119		S
Due to error	26	0.607	0.023				
Total	41	1.336					

21. Chlorophyll content B (mg/g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.006	0.003	0.098	3.369	2.056	NS
Due to treatments	13	3.537	0.272	9.712	2.119		S
Due to error	26	0.728	0.028				
Total	41	4.271					

22. Total Chlorophyll content (mg/g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.524	0.262	1.855	3.369	2.056	NS
Due to treatments	13	6.006	0.462	3.269	2.119		S
Due to error	26	3.674	0.141				
Total	41	10.204					

Table of analysis of variance for moisture stress condition in M₃ generation**1. Days to 50 per cent flowering**

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	2.905	1.452	1.298	3.369	2.056	NS
Due to treatments	13	50.119	3.855	3.445	2.119		S
Due to error	26	29.095	1.119				
Total	41	82.119					

2. Number of primary branches per plants

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.076	0.038	0.519	3.369	2.056	NS
Due to treatments	13	4.394	0.338	4.627	2.119		S
Due to error	26	1.899	0.073				
Total	41	6.369					

3. Number of secondary branches per plants

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.154	0.077	0.872	3.369	2.056	NS
Due to treatments	13	4.550	0.350	3.958	2.119		S
Due to error	26	2.299	0.088				
Total	41	7.003					

4. Number of pod per plant

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	1.960	0.980	2.823	3.369	2.056	NS
Due to treatments	13	19.676	1.514	4.359	2.119		S
Due to error	26	9.027	0.347				
Total	41	30.663					

5. Pod length (cm)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.008	0.004	0.034	3.369	2.056	NS
Due to treatments	13	5.602	0.431	3.772	2.119		S
Due to error	26	2.970	0.114				
Total	41	8.579					

6. Number of seeds per pod

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.109	0.054	0.946	3.369	2.056	NS
Due to treatments	13	9.551	0.734	12.808	2.119		S
Due to error	26	1.491	0.057				
Total	41	11.151					

7. Plant height (cm)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	43.950	21.975	6.748	3.369	2.056	S
Due to treatments	13	91.901	7.069	2.171	2.119		S
Due to error	26	84.675	3.257				
Total	41	220.525					

8. Days to maturity

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	9.476	4.738	3.312	3.369	2.056	S
Due to treatments	13	41.167	3.167	2.214	2.119		S
Due to error	26	37.190	1.430				
Total	41	87.833					

9. 100 seed weight (g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	1.432	0.716	0.801	3.369	2.056	NS
Due to treatments	13	30.061	2.312	2.588	2.119		S
Due to error	26	23.228	0.893				
Total	41	54.721					

10. Biological yield per plants (g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.223	0.115	0.059	3.369	2.056	NS
Due to treatments	13	197.004	15.154	7.729	2.119		S
Due to error	26	50.977	1.961				
Total	41	248.211					

11. Harvest index (per cent)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	13.784	6.892	0.489	3.369	2.056	NS
Due to treatments	13	483.320	37.178	2.635	2.119		S
Due to error	26	366.805	14.108				
Total	41	863.909					

12. Seed yield per plants (g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	2.473	1.236	1.683	3.369	2.056	NS
Due to treatments	13	33.987	2.614	3.558	2.119		S
Due to error	26	19.103	0.735				
Total	41	55.562					

13. Relative water content (50 per cent flowering stage)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	1.762	0.881	0.232	3.369	2.056	S
Due to treatments	13	105.167	8.090	2.127	2.119		S
Due to error	26	98.905	3.804				
Total	41	205.833					

14. Relative water content (pod development stage)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	1.857	0.929	0.347	3.369	2.056	NS
Due to treatments	13	99.738	7.672	2.871	2.119		S
Due to error	26	69.476	2.672				
Total	41	171.071					

15. Soil moisture content (vegetative stage)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	21.818	10.909	9.060	3.369	2.056	S
Due to treatments	13	105.336	8.1028	6.730	2.119		S
Due to error	26	31.305	1.204				
Total	41	158.459					

16. Soil moisture content (50 per cent flowering stage)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	22.551	11.275	9.057	3.369	2.056	S
Due to treatments	13	37.4506	2.881	2.314	2.119		S
Due to error	26	32.367	1.245				
Total	41	92.367					

17. Soil moisture content (pod development stage)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	2.040	1.020	0.461	3.369	2.056	NS
Due to treatments	13	64.057	4.927	2.226	2.119		S
Due to error	26	57.559	2.214				
Total	41	123.656					

18. Drought tolerance efficiency

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	17.111	8.556	1.166	3.369	2.056	NS
Due to treatments	13	240.917	18.532	2.526	2.119		S
Due to error	26	190.742	7.336				
Total	41	448.769					

19. Membrane injury per cent

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.571	0.286	0.174	3.369	2.056	NS
Due to treatments	13	128.952	9.919	6.031	2.119		S
Due to error	26	42.762	1.645				
Total	41	172.286					

20. Chlorophyll content A (mg/g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.059	0.029	1.169	3.369	2.056	S
Due to treatments	13	0.812	0.062	2.493	2.119		S
Due to error	26	0.651	0.025				
Total	41	1.521					

21. Chlorophyll content B(mg/g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.058	0.029	0.573	3.369	2.056	NS
Due to treatments	13	2.473	0.190	3.733	2.119		S
Due to error	26	1.325	0.051				
Total	41	3.857					

22. Total chlorophyll content(mg/g)

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Due to replications	2	0.173	0.087	0.633	3.369	2.056	NS
Due to treatments	13	4.870	0.375	2.737	2.119		S
Due to error	26	3.559	0.137				
Total	41	8.603					

Table of Analysis of variance for laboratory parameters

1. 3rd month of germination per cent

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	177.214	13.632	7.843	1.961	2.018	S
Due to error	42	73.000	1.738				
Total	55						
Polythene bags							
Due to treatments	13	56.732	4.364	4.554	1.961	2.018	S
Due to error	42	40.250	0.958				
Total	55						

2. 6th month of germination per cent

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	211.357	16.258	13.657	1.961	2.018	S
Due to error	42	50.000	1.190				
Total	55						
Polythene bags							
Due to treatments	13	138.429	10.648	8.769	1.961	2.018	S
Due to error	42	51.000	1.214				
Total	55						

3. 9th month of germination per cent

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	84.304	6.485	6.297	1.961	2.018	S
Due to error	42	43.250	1.030				
Total	55						
Polythene bags							
Due to treatments	13	134.089	10.315	8.371	1.961	2.018	S
Due to error	42	51.750	1.232				
Total	55						

4. 12th month of germination per cent

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	102.429	7.879	5.562	1.961	2.018	S
Due to error	42	59.500	1.417				
Total	55						
Polythene bags							
Due to treatments	13	85.7321	6.595	6.259	1.961	2.018	S
Due to error	42	44.25	1.054	0	0	0	
Total	55						

5. 15th month of germination per cent

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	41.714	3.209	1.595	1.961	2.018	NS
Due to error	42	84.500	2.012				
Total	55						
Polythene bags							
Due to treatments	13	49.000	3.769	2.878	1.961	2.018	S
Due to error	42	55.000	1.310				
Total	55						

6. 18th month of germination per cent

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	108.357	8.335	5.934	1.961	2.018	S
Due to error	42	59.000	1.405				
Total	55						
Polythene bags							
Due to treatments	13	116.089	8.930	12.197	1.961	2.018	S
Due to error	42	30.750	0.732				
Total	55						

7. 21st month of germination per cent

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	79.232	6.095	2.332	1.961	2.018	S
Due to error	42	109.750	2.613				
Total	55						
Polythene bags							
Due to treatments	13	127.232	9.787	5.893	1.961	2.018	S
Due to error	42	69.750	1.661				
Total	55						

8. 24th month of germination per cent

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab(5%)	Result
Gunny bags							
Due to treatments	13	434.00	33.384	9.348	1.961	2.018	S
Due to error	42	150.00	3.571				
Total	55						
Polythene bags							
Due to treatments	13	412.50	31.730	14.564	1.961	2.018	S
Due to error	42	91.500	2.178				
Total	55						

9. 3rd month of speed of germination

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	145.514	11.193	7.747	1.961	2.018	S
Due to error	42	60.685	1.445				
Total	55						
Polythene bags							
Due to treatments	13	134.992	10.384	5.476	1.961	2.018	S
Due to error	42	79.648	1.896				
Total	55						

10. 6th month of speed of germination

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	84.911	6.532	2.589	1.961	2.018	S
Due to error	42	105.958	2.523				
Total	55						
Polythene bags							
Due to treatments	13	90.204	6.939	3.862	1.961	2.018	S
Due to error	42	75.455	1.797				
Total	55						

11. 9th month of speed of germination

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	72.079	5.545	2.276	1.961	2.018	S
Due to error	42	102.330	2.436				
Total	55						
Polythene bags							
Due to treatments	13	56.458	4.343	2.523	1.961	2.018	S
Due to error	42	72.307	1.722				
Total	55						

12. 12th month of speed of germination

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	70.790	5.445	2.404	1.961	2.018	S
Due to error	42	95.135	2.265				
Total	55						
Polythene bags							
Due to treatments	13	49.078	3.775	2.052	1.961	2.018	S
Due to error	42	77.264	1.839				
Total	55						

13. 15th month of speed of germination

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	54.840	4.218	2.313	1.961	2.018	S

Due to error	42	76.585	1.823				
Total	55						
Polythene bags							
Due to treatments	13	45.829	3.525	2.069	1.961	2.018	S
Due to error	42	71.570	1.704				
Total	55						

14. 18th month of speed of germination

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	72.391	5.569	2.990	1.961	2.018	S
Due to error	42	78.208	1.862				
Total	55						
Polythene bags							
Due to treatments	13	39.054	3.004	2.329	1.961	2.018	S
Due to error	42	54.166	1.290				
Total	55						

15. 21st month of speed of germination

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	89.817	6.909	2.371	1.961	2.018	S
Due to error	42	122.363	2.913				
Total	55						
Polythene bags							
Due to treatments	13	21.868	1.682	2.048	1.961	2.018	S
Due to error	42	34.502	0.821				
Total	55						

16. 24th month of speed of germination

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	75.984	5.845	1.854	1.961	2.018	NS
Due to error	42	132.408	3.153				
Total	55						
Polythene bags							
Due to treatments	13	93.964	7.228	3.185	1.961	2.018	S
Due to error	42	95.310	2.269				
Total	55						

17. 3rd month of seed vigour index

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	2271719.0	174747.6	34.053	1.961	2.018	S
Due to error	42	215528.7	5131.636				
Total	55						
Polythene bags							
Due to treatments	13	2068516.0	159116.6	35.509	1.961	2.018	S

Due to error	42	188204.7	4481.065				
Total	55						

18. 6th month of seed vigour length

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	2097694.0	161361.1	24.787	1.961	2.018	S
Due to error	42	273419.1	6509.978				
Total	55						
Polythene bags							
Due to treatments	13	2018752.0	155288.6	30.638	1.961	2.018	S
Due to error	42	212874.4	5068.438				
Total	55						

19. 9th month of seed vigour length

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	1231339.0	94718.39	18.728	1.961	2.018	S
Due to error	42	212414.9	5057.497				
Total	55						
Polythene bags							
Due to treatments	13	1312656.0	100973.5	43.023	1.961	2.018	S
Due to error	42	98570.33	2346.913				
Total	55						

20. 12th month of seed vigour length

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	1120342.0	86180.12	24.101	1.961	2.018	S
Due to error	42	150181.2	3575.743				
Total	55						
Polythene bags							
Due to treatments	13	1075355	82719.61	51.267	1.961	2.018	S
Due to error	42	67767.69	1613.516				
Total	55						

21. 15th month of seed vigour length

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	705669.9	54282.30	12.321	1.961	2.018	S
Due to error	42	185030.9	4405.497				
Total	55						
Polythene bags							
Due to treatments	13	872895.9	67145.84	26.859	1.961	2.018	S
Due to error	42	104994.8	2499.877				
Total	55						

22. 18th month of seed vigour length

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	526080.8	40467.76	11.725	1.961	2.018	S
Due to error	42	144959.2	3451.41				
Total	55						
Polythene bags							
Due to treatments	13	687933.3	52917.94	17.90823	1.961	2.018	S
Due to error	42	124107.9	2954.951				
Total	55						

23. 21st month of seed vigour length

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	410662.3	31589.4	8.247	1.961	2.018	S
Due to error	42	160878	3830.427				
Total	55						
Polythene bags							
Due to treatments	13	512020.6	39386.2	7.529125	1.961	2.018	S
Due to error	42	219709.5	5231.179				
Total	55						

24. 24th month of seed vigour length

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	612342.8	47103.29	13.701	1.961	2.018	S
Due to error	42	144384.9	3437.735				
Total	55						
Polythene bags							
Due to treatments	13	804299.2	61869.17	21.202	1.961	2.018	S
Due to error	42	122554	2917.953				
Total	55						

25. 3rd month of seed vigour index mass

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	10.839	0.834	13.276	1.961	2.018	S
Due to error	42	2.638	0.063				
Total	55						
Polythene bags							
Due to treatments	13	10.960	0.843	15.301	1.961	2.018	S
Due to error	42	2.314	0.055				
Total	55						

26. 6th month of seed vigour index mass

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	10.038	0.772	14.989	1.961	2.018	S
Due to error	42	2.163	0.052				
Total	55						
Polythene bags							
Due to treatments	13	11.414	0.878	21.497	1.961	2.018	S
Due to error	42	1.715	0.041				
Total	55						

27. 9th month of seed vigour index mass

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	4.913	0.378	7.732	1.961	2.018	S
Due to error	42	2.053	0.049				
Total	55						
Polythene bags							
Due to treatments	13	6.854	0.527	11.772	1.961	2.018	S
Due to error	42	1.881	0.045				
Total	55						

28. 12th month of seed vigour index mass

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	4.228	0.325	6.708	1.961	2.018	S
Due to error	42	2.036	0.048				
Total	55						
Polythene bags							
Due to treatments	13	6.292	0.484	8.806	1.961	2.018	S
Due to error	42	2.309	0.055				
Total	55						

29. 15th month of seed vigour index mass

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	2.537	0.195	4.710	1.961	2.018	S
Due to error	42	1.740	0.041				
Total	55						
Polythene bags							
Due to treatments	13	3.674	0.283	8.571	1.961	2.018	S
Due to error	42	1.385	0.033				
Total	55						

30. 18th month of seed vigour index mass

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	2.147	0.165	5.911	1.961	2.018	S

Due to error	42	1.173	0.028				
Total	55						
Polythene bags							
Due to treatments	13	2.174	0.167	5.864	1.961	2.018	S
Due to error	42	1.198	0.029				
Total	55						

31. 21st month of seed vigour index mass

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	1.879	0.145	5.841	1.961	2.018	S
Due to error	42	1.040	0.025				
Total	55						
Polythene bags							
Due to treatments	13	1.954	0.150	4.219	1.961	2.018	S
Due to error	42	1.496	0.036				
Total	55						

32. 24th month of seed vigour index mass

Source of variance	DF	SS	MSS	F CAL	F TAB	T tab (5%)	Result
Gunny bags							
Due to treatments	13	2.473	0.190	11.667	1.961	2.018	S
Due to error	42	0.685	0.016				
Total	55						
Polythene bags							
Due to treatments	13	2.504	0.193	8.340	1.961	2.018	S
Due to error	42	0.970	0.023				
Total	55						