

Table 1.1. Northern Hill Zone		RF-TS-TAS				2025-26
Nitrogen, kg/ha	Genotype	Almora	Bajaura	Malan	Shimla	Zonal mean
40	NHRFZ-101	34.81	41.55	30.22	26.55	33.28
	NHRFZ-102	39.35	35.95	29.30	31.57	34.04
	NHRFZ-103	28.30	31.94	30.22	25.74	29.05
	NHRFZ-104	28.70	32.94	33.88	27.59	30.78
	Mean	32.79	35.60	30.91	27.86	31.79
60	NHRFZ-101	35.07	38.85	37.55	26.74	34.55
	NHRFZ-102	40.49	37.10	41.21	33.20	38.00
	NHRFZ-103	35.20	39.52	33.88	29.65	34.56
	NHRFZ-104	37.61	38.25	42.12	29.55	36.88
	Mean	37.09	38.43	38.69	29.78	36.00
80	NHRFZ-101	38.83	44.88	46.70	33.27	40.92
	NHRFZ-102	50.83	37.66	48.53	36.38	43.35
	NHRFZ-103	41.18	43.69	43.04	29.94	39.46
	NHRFZ-104	38.78	43.33	45.79	33.15	40.26
	Mean	42.41	42.39	46.02	33.19	41.00
Mean	NHRFZ-101	36.24	41.76	38.16	28.86	36.25
	NHRFZ-102	43.56	36.90	39.68	33.72	38.46
	NHRFZ-103	34.90	38.39	35.71	28.44	34.36
	NHRFZ-104	35.03	38.17	40.60	30.10	35.97
	Mean	37.43	38.81	38.54	30.28	36.26
CD (0.05)	Sowing (A)	3.85	1.16	7.64	1.80	1.39
	Genotype (B)	2.91	1.90	3.64	1.23	1.03
	B within A	5.04	3.29	6.30	2.13	N.S.
	A within B	5.25	2.98	7.95	2.30	N.S.
Date of Sowing:		22.10.2025	18.11.2025	25.11.2025	07.11.2025	
Date of Harvesting:		15.05.2026	25.05.2025	04.06.2026	26.05.2026	

Table 1.2. Northern Hill Zone			RF-TS-TAS		Pooled		2025-26	
Genotype	Levels of Nitrogen, kg/ha						Mean	Rank
	40	Rank	60	Rank	80	Rank		
Yield, q/ha								
NHRFZ-101	33.28	2	34.55	4	40.92	2	36.25	2
NHRFZ-102	34.04	1	38.00	1	43.35	1	38.46	1
NHRFZ-103	29.05	4	34.56	3	39.46	4	34.36	4
NHRFZ-104	30.78	3	36.88	2	40.26	3	35.97	3
Mean	31.79		36.00		41.00		36.26	
	F. Test		S.E.m		CD (0.05)			
Nitrogen (A)	**		0.56		1.39			
Genotype (B)	**		0.44		1.03			
B within A	N.S.				N.S.			
A within B					N.S.			
Earheads/sq.m.								
NHRFZ-101	268	1	283	1	270	1	274	1
NHRFZ-102	245	2	246	4	266	2	252	2
NHRFZ-103	213	4	258	2	261	4	244	4
NHRFZ-104	233	3	255	3	263	3	250	3
Mean	239		261		265		255	
	F. Test		S.E.m		CD (0.05)			
Nitrogen (A)	**		3.63		8.96			
Genotype (B)	**		3.18		7.51			
B within A	**		5.52		13.01			
A within B			6.00		14.63			
Grains/Earhead								
NHRFZ-101	25.66	3	25.61	4	30.74	2.00	27.34	3
NHRFZ-102	26.36	2	29.46	1	32.61	1.00	29.48	1
NHRFZ-103	26.98	1	26.27	3	28.90	3.00	27.38	2
NHRFZ-104	24.46	4	26.62	2	28.03	4.00	26.37	4
Mean	25.86		26.99		30.07		27.64	
	F. Test		S.E.m		CD (0.05)			
Nitrogen (A)	**		0.82		2.02			
Genotype (B)	**		0.58		1.37			
B within A	N.S.							
A within B			1.20		2.90			
1000 grain weight, g								
NHRFZ-101	52.25	4	52.23	4	52.41	4	52.30	4
NHRFZ-102	54.85	2	55.23	2	54.59	3	54.89	2
NHRFZ-103	53.32	3	54.07	3	55.69	2	54.36	3
NHRFZ-104	56.26	1	57.27	1	57.17	1	56.90	1
Mean	54.17		54.70		54.96		54.61	
	F. Test		S.E.m		CD (0.05)			
Nitrogen (A)	N.S.							
Genotype (B)	**		0.33		0.79			
B within A	N.S.							
A within B			0.61		1.48			
Centers: Almora, Bajaura, Malan, Shimla								

Table 1.2.1. Northern Hill Zone			RF-TS-TAS		Almora		2025-26	
Genotype	Levels of Nitrogen, kg/ha						Mean	Rank
	40	Rank	60	Rank	80	Rank		
Yield, q/ha								
NHRFZ-101	34.81	2	35.07	4	38.83	3	36.24	2
NHRFZ-102	39.35	1	40.49	1	50.83	1	43.56	1
NHRFZ-103	28.30	4	35.20	3	41.18	2	34.90	4
NHRFZ-104	28.70	3	37.61	2	38.78	4	35.03	3
Mean	32.79		37.09		42.41		37.43	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	**		0.98		3.85		9.08	
Genotype (B)	**		0.98		2.91		7.85	
B within A	*		1.70		5.04			
A within B			1.77		5.25			
Earheads/sq.m.								
NHRFZ-101	225	1	216	3	224	3	222	3
NHRFZ-102	222	2	215	4	235	2	224	1
NHRFZ-103	196	3	234	1	240	1	223	2
NHRFZ-104	196	4	218	2	223	4	212	4
Mean	210		221		230		220	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	N.S.		9.67		37.95		15.21	
Genotype (B)	N.S.		6.96		20.67		9.48	
B within A	N.S.		12.05		35.80			
A within B			14.23		42.27			
Grains/Earhead								
NHRFZ-101	33.31	2	35.67	2	37.57	2	35.52	2
NHRFZ-102	37.10	1	37.97	1	49.41	1	41.49	1
NHRFZ-103	30.33	3	31.00	4	35.02	3	32.12	4
NHRFZ-104	29.68	4	34.52	3	33.69	4	32.63	3
Mean	32.60		34.79		38.92		35.44	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	N.S.		2.62		10.30		25.64	
Genotype (B)	**		1.70		5.04		14.37	
B within A	N.S.		2.94		8.74			
A within B			3.66		10.86			
1000 grain weight, g								
NHRFZ-101	46.52	4	45.89	4	46.33	4	46.25	4
NHRFZ-102	47.89	2	49.73	2	47.35	3	48.32	3
NHRFZ-103	47.64	3	48.99	3	49.65	2	48.76	2
NHRFZ-104	49.51	1	50.37	1	51.76	1	50.55	1
Mean	47.89		48.75		48.77		48.47	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	N.S.		0.47		1.86		3.39	
Genotype (B)	**		0.62		1.84		3.82	
B within A	N.S.		1.07		3.18			
A within B			1.04		3.09			
Date of Sowing:	22.10.2025		Date of Harvesting:		15.05.2026			

Table 1.2.2. Northern Hill Zone			RF-TS-TAS		Bajaura		2025-26	
Genotype	Levels of Nitrogen, kg/ha						Mean	Rank
	40	Rank	60	Rank	80	Rank		
Yield, q/ha								
NHRFZ-101	41.55	1	38.85	2	44.88	1	41.76	1
NHRFZ-102	35.95	2	37.10	4	37.66	4	36.90	4
NHRFZ-103	31.94	4	39.52	1	43.69	2	38.39	2
NHRFZ-104	32.94	3	38.25	3	43.33	3	38.17	3
Mean	35.60		38.43		42.39		38.81	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	**		0.30		1.16		2.63	
Genotype (B)	**		0.64		1.90		4.94	
B within A	**		1.11		3.29			
A within B			1.00		2.98			
Earheads/sq.m.								
NHRFZ-101	370	1	413	1	384	1	389	1
NHRFZ-102	289	3	310	4	323	4	308	4
NHRFZ-103	264	4	342	2	368	2	324	3
NHRFZ-104	296	2	334	3	356	3	329	2
Mean	305		350		358		337	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	**		2.65		10.39		2.72	
Genotype (B)	**		2.43		7.23		2.16	
B within A	**		4.21		12.52			
A within B			4.51		13.39			
Grains/Earhead								
NHRFZ-101	17.54	3	14.97	4	19.19	3	17.23	4
NHRFZ-102	20.49	1	18.99	1	19.75	1	19.74	1
NHRFZ-103	19.74	2	18.96	2	18.98	4	19.22	2
NHRFZ-104	17.21	4	17.05	3	19.33	2	17.86	3
Mean	18.75		17.49		19.31		18.52	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	**		0.22		0.86		4.10	
Genotype (B)	**		0.30		0.90		4.89	
B within A	**		0.52		1.55			
A within B			0.50		1.49			
1000 grain weight, g								
NHRFZ-101	64.00	2	63.00	2	61.00	3	62.67	2
NHRFZ-102	60.67	4	63.00	2	59.00	4	60.89	4
NHRFZ-103	61.33	3	61.00	4	62.67	2	61.67	3
NHRFZ-104	64.67	1	67.33	1	63.00	1	65.00	1
Mean	62.67		63.58		61.42		62.56	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	N.S.		0.64		2.52		3.55	
Genotype (B)	**		0.60		1.78		2.87	
B within A	N.S.		1.03		3.07			
A within B			1.10		3.28			
Date of Sowing:	18.11.2025		Date of Harvesting:		25.05.2025			

Table 1.2.3. Northern Hill Zone			RF-TS-TAS		Malan		2025-26	
Genotype	Levels of Nitrogen, kg/ha						Mean	Rank
	40	Rank	60	Rank	80	Rank		
Yield, q/ha								
NHRFZ-101	30.22	2	37.55	3	46.70	2	38.16	3
NHRFZ-102	29.30	4	41.21	2	48.53	1	39.68	2
NHRFZ-103	30.22	2	33.88	4	43.04	4	35.71	4
NHRFZ-104	33.88	1	42.12	1	45.79	3	40.60	1
Mean	30.91		38.69		46.02		38.54	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	*		1.95		7.64		17.50	
Genotype (B)	N.S.		1.22		3.64		9.53	
B within A	N.S.		2.12		6.30			
A within B			2.68		7.95			
Earheads/sq.m.								
NHRFZ-101	178	3	232	1	229	2	213	3
NHRFZ-102	204	2	226	3	230	1	220	1
NHRFZ-103	161	4	193	4	202	4	185	4
NHRFZ-104	205	1	227	2	226	3	219	2
Mean	187		219		222		209	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	N.S.		8.96		35.17		14.83	
Genotype (B)	**		6.92		20.58		9.93	
B within A	N.S.		11.99		35.64			
A within B			13.72		40.76			
Grains/Earhead								
NHRFZ-101	31.89	2	30.13	4	37.41	2	33.14	2
NHRFZ-102	24.40	4	33.90	1	35.55	3	31.28	4
NHRFZ-103	35.85	1	33.49	2	38.56	1	35.97	1
NHRFZ-104	29.29	3	31.89	3	34.43	4	31.87	3
Mean	30.36		32.35		36.49		33.07	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	N.S.		1.86		7.31		19.51	
Genotype (B)	N.S.		1.38		4.10		12.53	
B within A	N.S.		2.39		7.11			
A within B			2.79		8.28			
1000 grain weight, g								
NHRFZ-101	53.49	3	54.01	3	54.63	4	54.04	4
NHRFZ-102	59.51	1	53.87	4	59.66	1	57.68	2
NHRFZ-103	52.64	4	54.27	2	55.43	3	54.12	3
NHRFZ-104	56.54	2	58.36	1	59.24	2	58.05	1
Mean	55.55		55.13		57.24		55.97	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	N.S.		0.95		3.72		5.87	
Genotype (B)	**		0.85		2.52		4.54	
B within A	N.S.		1.47		4.36			
A within B			1.58		4.71			
Date of Sowing:	25.11.2025		Date of Harvesting:	04.06.2026				

Table 1.2.4. Northern Hill Zone			RF-TS-TAS		Shimla		2025-26	
Genotype	Levels of Nitrogen, kg/ha						Mean	Rank
	40	Rank	60	Rank	80	Rank		
Yield, q/ha								
NHRFZ-101	26.55	3	26.74	4	33.27	2	28.86	3
NHRFZ-102	31.57	1	33.20	1	36.38	1	33.72	1
NHRFZ-103	25.74	4	29.65	2	29.94	4	28.44	4
NHRFZ-104	27.59	2	29.55	3	33.15	3	30.10	2
Mean	27.86		29.78		33.19		30.28	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	**		0.46		1.80		5.25	
Genotype (B)	**		0.41		1.23		4.11	
B within A	*		0.72		2.13			
A within B			0.77		2.30			
Earheads/sq.m.								
NHRFZ-101	297	1	273	1	243	3	271	1
NHRFZ-102	263	2	232	4	274	1	256	2
NHRFZ-103	230	4	264	2	237	4	244	3
NHRFZ-104	234	3	243	3	246	2	241	4
Mean	256		253		250		253	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	N.S.		5.47		21.47		7.49	
Genotype (B)	N.S.		7.75		23.02		9.19	
B within A	*		13.42		39.87			
A within B			12.84		38.16			
Grains/Earhead								
NHRFZ-101	19.87	4	21.67	3	28.79	1	23.45	2
NHRFZ-102	23.46	1	27.00	1	25.71	2	25.39	1
NHRFZ-103	21.98	2	21.63	4	23.02	4	22.21	4
NHRFZ-104	21.67	3	23.02	2	24.66	3	23.12	3
Mean	21.75		23.33		25.55		23.54	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	*		0.54		2.11		7.92	
Genotype (B)	*		0.73		2.18		9.36	
B within A	*		1.27		3.78			
A within B			1.23		3.64			
1000 grain weight, g								
NHRFZ-101	45.00	4	46.00	4	47.67	4	46.22	4
NHRFZ-102	51.33	3	54.33	1	52.33	3	52.67	3
NHRFZ-103	51.67	2	52.00	3	55.00	1	52.89	2
NHRFZ-104	54.33	1	53.00	2	54.67	2	54.00	1
Mean	50.58		51.33		52.42		51.44	
	F. Test		S.E.m		CD (0.05)		C.V.(%)	
Nitrogen (A)	N.S.		0.57		2.23		3.82	
Genotype (B)	**		0.57		1.70		3.34	
B within A	N.S.		0.99		2.95			
A within B			1.03		3.06			
Date of Sowing:	07.11.2025		Date of Harvesting:	26.05.2026				