

Table 2.7. North Western Plain Zone		IR-SL-LON	Centrewise Yield, q/ha		2023-24
Nitrogen	Genotype	Hisar	Karnal	Zonal mean	
60 kg/ha	AVTSAL 2301	31.08	33.33	32.21	
	AVTSAL 2302	32.63	39.33	35.98	
	AVTSAL 2303	36.17	38.00	37.09	
	AVTSAL 2304	34.35	44.67	39.51	
	Mean	33.56	38.83	36.19	
75 kg/ha	AVTSAL 2301	34.29	29.67	31.98	
	AVTSAL 2302	35.18	33.93	34.56	
	AVTSAL 2303	37.85	39.83	38.84	
	AVTSAL 2304	35.94	34.00	34.97	
	Mean	35.81	34.36	35.09	
90 kg/ha	AVTSAL 2301	36.79	49.00	42.90	
	AVTSAL 2302	36.65	47.00	41.82	
	AVTSAL 2303	40.08	47.00	43.54	
	AVTSAL 2304	37.29	46.00	41.64	
	Mean	37.70	47.25	42.48	
Mean	AVTSAL 2301	34.05	37.33	35.69	
	AVTSAL 2302	34.82	40.09	37.45	
	AVTSAL 2303	38.03	41.61	39.82	
	AVTSAL 2304	35.86	41.56	38.71	
	Mean	35.69	40.15	37.92	
CD (0.05)	Nitrogen (A)	2.97	4.79	1.89	
	Genotype (B)	2.65	5.68	NS	
	B within A	4.60	9.83	NS	
	A within B	4.57	9.25	4.52	
Date of Sowing:		15.11.2023	24.11.2023		
Date of Harvesting:		12.04.2024	27.04.2024		

**Table 2.8. North Western Plain Zone** **IR-SL-LON** **Pooled** **2023-24**

Genotype	Nitrogen Levels, kg/ha						Mean	Rk
	60	Rk	75	Rk	90	Rk		
<b>Yield, q/ha</b>								
AVTSAL 2301	32.21	4	31.98	4	42.90	2	35.69	4
AVTSAL 2302	35.98	3	34.56	3	41.82	3	37.45	3
AVTSAL 2303	37.09	2	38.84	1	43.54	1	39.82	1
AVTSAL 2304	39.51	1	34.97	2	41.64	4	38.71	2
Mean	36.19		35.09		42.48		37.92	
	Nitrogen (A)		Genotype (B)		B within A		A within B	
CD (0.05)	1.89		NS		NS		4.52	
<b>Earhead/sq.m.</b>								
AVTSAL 2301	380.26	4	416.16	2	443.30	1	413.24	3
AVTSAL 2302	395.61	3	415.16	3	433.46	2	414.74	2
AVTSAL 2303	427.67	1	422.70	1	410.57	4	420.31	1
AVTSAL 2304	395.62	2	382.96	4	432.75	3	403.78	4
Mean	399.79		409.24		430.02		413.02	
	Nitrogen (A)		Genotype (B)		B within A		A within B	
CD (0.05)	13.89		NS		27.44		29.14	
<b>Grains/earhead</b>								
AVTSAL 2301	20.94	1	18.75	3	20.75	3	20.15	3
AVTSAL 2302	19.90	3	18.26	4	20.92	2	19.69	4
AVTSAL 2303	19.86	4	22.96	1	24.75	1	22.53	1
AVTSAL 2304	20.91	2	19.76	2	20.15	4	20.27	2
Mean	20.40		19.93		21.64		20.66	
	Nitrogen (A)		Genotype (B)		B within A		A within B	
CD (0.05)	NS		1.62		NS		NS	
<b>1000 grains weight, g</b>								
AVTSAL 2301	40.79	4	41.19	3	46.37	3	42.78	3
AVTSAL 2302	46.08	2	45.90	2	46.67	2	46.22	2
AVTSAL 2303	43.99	3	40.37	4	43.27	4	42.54	4
AVTSAL 2304	47.51	1	46.78	1	48.18	1	47.49	1
Mean	44.59		43.56		46.12		44.76	
	Nitrogen (A)		Genotype (B)		B within A		A within B	
CD (0.05)	NS		1.59		NS		3.05	
<b>Centres:</b> Hisar, Karnal								

Table 2.8.1. North Western Plain Zone			IR-SL-LON		Hisar		2023-24	
Genotype	Nitrogen level, kg/ha						Mean	Rk
	60	Rk	75	Rk	90	Rk		
<b>Yield, q/ha</b>								
AVTSAL 2301	31.08	4	34.29	4	36.79	3	34.05	4
AVTSAL 2302	32.63	3	35.18	3	36.65	4	34.82	3
AVTSAL 2303	36.17	1	37.85	1	40.08	1	38.03	1
AVTSAL 2304	34.35	2	35.94	2	37.29	2	35.86	2
Mean	33.56		35.81		37.70		35.69	
	F. Test		SEm		CD (0.05)		CV (%)	
Nitrogen (A)	*		0.76		2.97		7.34	
Genotype (B)	*		0.89		2.65		7.51	
B within A	N.S.		1.55		4.60			
A within B			1.54		4.57			
<b>Earhead/sq.m.</b>								
AVTSAL 2301	371	4	387	4	404	4	387	4
AVTSAL 2302	376	3	401	2	405	3	394	3
AVTSAL 2303	405	1	428	1	432	1	422	1
AVTSAL 2304	384	2	392	3	413	2	396	2
Mean	384		402		414		400	
	F. Test		SEm		CD (0.05)		CV (%)	
Nitrogen (A)	*		3.55		13.93		3.07	
Genotype (B)	*		7.79		23.15		5.85	
B within A	N.S.		13.50		40.10			
A within B			12.22		36.30			
<b>Grains/earhead</b>								
AVTSAL 2301	19.88	2	20.60	2	20.87	2	20.45	2
AVTSAL 2302	18.13	4	17.76	4	18.22	4	18.04	4
AVTSAL 2303	21.87	1	20.98	1	21.77	1	21.54	1
AVTSAL 2304	19.41	3	19.44	3	18.29	3	19.04	3
Mean	19.82		19.70		19.79		19.77	
	F. Test		SEm		CD (0.05)		CV (%)	
Nitrogen (A)	N.S.		0.52		2.04		9.09	
Genotype (B)	**		0.47		1.40		7.16	
B within A	N.S.		0.82		2.43			
A within B			0.88		2.61			
<b>1000 grains weight, g</b>								
AVTSAL 2301	42.40	3	43.13	3	43.70	3	43.08	3
AVTSAL 2302	48.00	1	49.27	1	49.73	1	49.00	1
AVTSAL 2303	40.77	4	42.30	4	42.80	4	41.96	4
AVTSAL 2304	46.20	2	47.37	2	49.30	2	47.62	2
Mean	44.34		45.52		46.38		45.41	
	F. Test		SEm		CD (0.05)		CV (%)	
Nitrogen (A)	*		0.33		1.31		2.55	
Genotype (B)	**		0.48		1.43		3.18	
B within A	N.S.		0.83		2.48			
A within B			0.80		2.36			
Date of Sowing:	15.11.2023		Date of Harvesting:				12.04.2024	

Table 2.8.2. North Western Plain Zone			IR-SL-LON		Karnal		2023-24	
Genotype	Nitrogen level, kg/ha						Mean	Rk
	60	Rk	75	Rk	90	Rk		
<b>Yield, q/ha</b>								
AVTSAL 2301	33.33	4	29.67	4	49.00	1	37.33	4
AVTSAL 2302	39.33	2	33.93	3	47.00	2	40.09	3
AVTSAL 2303	38.00	3	39.83	1	47.00	2	41.61	1
AVTSAL 2304	44.67	1	34.00	2	46.00	4	41.56	2
Mean	38.83		34.36		47.25		40.15	
	F. Test		SEm		CD (0.05)		CV (%)	
Nitrogen (A)	**		1.22		4.79		10.52	
Genotype (B)	N.S.		1.91		5.68		14.28	
B within A	N.S.		3.31		9.83			
A within B			3.11		9.25			
<b>Earhead/sq.m.</b>								
AVTSAL 2301	390	4	446	1	483	1	439	1
AVTSAL 2302	415	2	429	2	462	2	435	2
AVTSAL 2303	450	1	417	3	389	4	419	3
AVTSAL 2304	407	3	374	4	452	3	411	4
Mean	416		416		446		426	
	F. Test		SEm		CD (0.05)		CV (%)	
Nitrogen (A)	N.S.		9.95		39.05		8.09	
Genotype (B)	N.S.		10.69		31.77		7.53	
B within A	*		18.52		55.02			
A within B			18.87		56.07			
<b>Grains/earhead</b>								
AVTSAL 2301	22.01	2	16.90	4	20.63	4	19.85	4
AVTSAL 2302	21.68	3	18.76	3	23.61	2	21.35	3
AVTSAL 2303	17.85	4	24.94	1	27.74	1	23.51	1
AVTSAL 2304	22.41	1	20.08	2	22.01	3	21.50	2
Mean	20.99		20.17		23.50		21.55	
	F. Test		SEm		CD (0.05)		CV (%)	
Nitrogen (A)	N.S.		0.81		3.19		13.05	
Genotype (B)	N.S.		1.27		3.76		17.64	
B within A	N.S.		2.19		6.52			
A within B			2.07		6.14			
<b>1000 grains weight, g</b>								
AVTSAL 2301	39.19	4	39.24	3	49.05	1	42.49	4
AVTSAL 2302	44.16	3	42.53	2	43.60	4	43.43	2
AVTSAL 2303	47.22	2	38.44	4	43.74	3	43.13	3
AVTSAL 2304	48.81	1	46.19	1	47.07	2	47.36	1
Mean	44.85		41.60		45.86		44.10	
	F. Test		SEm		CD (0.05)		CV (%)	
Nitrogen (A)	N.S.		1.22		4.80		9.61	
Genotype (B)	N.S.		1.24		3.69		8.45	
B within A	N.S.		2.15		6.39			
A within B			2.23		6.62			
Date of Sowing:	24.11.2023		Date of Harvesting:			27.04.2024		