

Table 4.7. Central Zone		SPL-IR-ES-HYPT		Centrewise		Yield, q/ha	2023-24
Nutrients Management	Genotype	BISA Jabalpur	Jabalpur	Powarkheda	Udaipur	Vijapur	Zonal mean
100% RFD	CG 1044	62.10	49.96	52.06	55.64	51.91	54.33
	DBW 377 (I)(C)	72.47	65.29	51.57	56.03	49.18	58.91
	DBW 187 (C)	64.32	54.00	51.72	71.47	55.44	59.39
	GW 543	64.88	62.66	46.03	55.67	53.90	56.63
	GW 322 (C)	62.47	40.63	47.84	67.14	48.50	53.32
	DBW 303 (C)	67.35	54.64	54.95	52.94	51.61	56.30
	Mean	65.60	54.53	50.70	59.81	51.76	56.48
150% RFD+FYM	CG 1044	66.38	52.25	61.14	76.39	58.40	62.91
	DBW 377 (I)(C)	75.41	70.21	58.16	81.47	61.13	69.27
	DBW 187 (C)	69.76	49.66	60.61	84.21	59.74	64.79
	GW 543	72.66	69.34	64.96	75.00	61.37	68.67
	GW 322 (C)	65.32	52.54	59.70	83.37	59.71	64.13
	DBW 303 (C)	74.59	71.34	62.40	72.82	60.56	68.34
	Mean	70.69	60.89	61.16	78.88	60.15	66.35
Mean	CG 1044	64.24	51.11	56.60	66.01	55.15	58.62
	DBW 377 (I)(C)	73.94	67.75	54.86	68.75	55.15	64.09
	DBW 187 (C)	67.04	51.83	56.16	77.84	57.59	62.09
	GW 543	68.77	66.00	55.50	65.34	57.63	62.65
	GW 322 (C)	63.90	46.59	53.77	75.26	54.10	58.72
	DBW 303 (C)	70.97	62.99	58.67	62.88	56.09	62.32
	Mean	68.14	57.71	55.93	69.35	55.95	61.42
CD (0.05)	NM (A)	2.28	2.16	0.82	3.11	5.50	2.77
	Genotype (B)	3.73	3.32	1.84	6.78	3.64	3.86
	B within A	5.27	4.69	2.60	9.59	5.15	5.46
	A within B	5.00	4.47	2.42	8.94	5.72	5.31
Date of Sowing:		04.11.2023	14.11.2023	05.11.2023	10.11.2023	04.11.2023	
Date of Harvesting:		07.04.2024	07.04.2024	01.04.2024	25.03.2024	06.03.2024	

Table 4.8. Central Zone		SPL-IR-ES-HYPT		Pooled	2023-24	
Genotype	Nutrients Management				Mean	Rk
	100% RFD	Rk	150% RFD+FYM	Rk		
Yield, q/ha						
CG 1044	54.33	5	62.91	6	58.62	6
DBW 377 (I)(C)	58.91	2	69.27	1	64.09	1
DBW 187 (C)	59.39	1	64.79	4	62.09	4
GW 543	56.63	3	68.67	2	62.65	2
GW 322 (C)	53.32	6	64.13	5	58.72	5
DBW 303 (C)	56.30	4	68.34	3	62.32	3
Mean	56.48		66.35		61.42	
	NM(A)		Genotype (B)		B within A	A within B
CD (0.05)	0.88		1.80		2.55	2.67
Earhead/sqm						
CG 1044	410	3	410	5	410	4
DBW 377 (I)(C)	406	4	442	2	424	3
DBW 187 (C)	424	2	432	4	428	2
GW 543	386	5	433	3	410	5
GW 322 (C)	425	1	449	1	437	1
DBW 303 (C)	383	6	407	6	395	6
Mean	406		429		417	
	NM(A)		Genotype (B)		B within A	A within B
CD (0.05)	10.92		16.00		NS	24.83
Grains/Earhead						
CG 1044	28.41	6	33.47	2	30.94	5
DBW 377 (I)(C)	30.76	2	32.65	5	31.71	3
DBW 187 (C)	29.11	5	30.30	6	29.70	6
GW 543	29.46	4	32.73	4	31.10	4
GW 322 (C)	30.55	3	33.31	3	31.93	2
DBW 303 (C)	34.11	1	37.15	1	35.63	1
Mean	30.40		33.27		31.83	
	NM(A)		Genotype (B)		B within A	A within B
CD (0.05)	0.84		1.50		N.S.	2.26
1000 Grains Weight, g						
CG 1044	47.65	3	46.41	4	47.03	4
DBW 377 (I)(C)	47.39	4	49.24	3	48.32	3
DBW 187 (C)	48.90	2	50.99	1	49.94	2
GW 543	50.20	1	49.69	2	49.95	1
GW 322 (C)	42.45	6	43.35	6	42.90	6
DBW 303 (C)	43.99	5	46.19	5	45.09	5
Mean	46.76		47.64		47.20	
	NM(A)		Genotype (B)		B within A	A within B
CD (0.05)	0.57		0.85		1.20	1.31
Plant Height, cm						
CG 1044	99.94	1.00	97.01	1.00	98.48	1
DBW 377 (I)(C)	88.95	5.00	86.20	3.00	87.57	3
DBW 187 (C)	92.75	2.00	87.84	2.00	90.30	2
GW 543	89.26	4.00	85.48	4.00	87.37	4
GW 322 (C)	88.42	6.00	84.41	5.00	86.41	6
DBW 303 (C)	91.46	3.00	83.12	6.00	87.29	5
Mean	91.80		87.34		89.57	
	NM(A)		Genotype (B)		B within A	A within B
CD (0.05)	1.51		2.04			3.21
Centres:	BISA Jabalpur, Jabalpur, Powarkheda, Udaipur, Vijapur					

Table 4.8.1. Central Zone		SPL-IR-ES-HYPT		BISA Jabalpur	2023-24	
Genotype	Nutrients Management				Mean	Rk
	100% RFD	Rk	150% RFD+FYM	Rk		
Yield, q/ha						
CG 1044	62.10	6	66.38	5	64.24	5
DBW 377 (I)(C)	72.47	1	75.41	1	73.94	1
DBW 187 (C)	64.32	4	69.76	4	67.04	4
GW 543	64.88	3	72.66	3	68.77	3
GW 322 (C)	62.47	5	65.32	6	63.90	6
DBW 303 (C)	67.35	2	74.59	2	70.97	2
Mean	65.60		70.69		68.14	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		*	0.55	2.28	3.44	
Genotype (B)		**	1.53	3.73	5.50	
B within A		N.S.	2.16	5.27		
A within B			2.05	5.00		
Earhead/sqm						
CG 1044	442	3	432	4	437	3
DBW 377 (I)(C)	457	2	440	2	448	2
DBW 187 (C)	480	1	448	1	464	1
GW 543	402	5	440	2	421	5
GW 322 (C)	422	4	427	6	424	4
DBW 303 (C)	365	6	432	4	398	6
Mean	428		436		432	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	7.32	30.21	7.18	
Genotype (B)		N.S.	19.23	46.92	10.90	
B within A		N.S.	27.20	66.36		
A within B			25.89	63.15		
Grains/Earhead						
CG 1044	30.61	5	37.8	3	34.2	3
DBW 377 (I)(C)	32.34	4	35.3	4	33.8	4
DBW 187 (C)	26.97	6	33.1	6	30.0	6
GW 543	32.69	3	33.6	5	33.1	5
GW 322 (C)	35.28	2	38.5	2	36.9	2
DBW 303 (C)	41.97	1	40.9	1	41.4	1
Mean	33.31		36.5		34.9	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	1.09	4.51	13.26	
Genotype (B)		**	1.87	4.55	13.09	
B within A		N.S.	2.64	6.44		
A within B			2.64	6.45		

1000 Grains Weight, g						
CG 1044	46.13	4	41.3	5	43.7	4
DBW 377 (I)(C)	49.13	3	49.9	1	49.5	2
DBW 187 (C)	49.87	1	49.3	3	49.6	1
GW 543	49.47	2	49.6	2	49.5	2
GW 322 (C)	42.47	6	39.8	6	41.1	6
DBW 303 (C)	44.60	5	42.3	4	43.4	5
Mean	46.94		45.4		46.2	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	0.86	3.56	7.93	
Genotype (B)		**	1.24	3.02	6.57	
B within A		N.S.	1.75	4.27		
A within B			1.82	4.43		
Plant Height, cm						
CG 1044	107.5	1	97.5	1	102.5	1
DBW 377 (I)(C)	98.1	5	90.4	3	94.3	3
DBW 187 (C)	99.9	3	95.5	2	97.7	2
GW 543	96.6	6	89.2	5	92.9	5
GW 322 (C)	98.8	4	89.8	4	94.3	4
DBW 303 (C)	100.4	2	83.7	6	92.1	6
Mean	100.2		91.0		95.6	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		*	1.18	4.86	5.22	
Genotype (B)		*	2.04	4.97	5.22	
B within A		N.S.	2.88	7.03		
A within B			2.88	7.03		
Date of Sowing	04.11.2023					
Date of Harvesting	07.04.2024					

Table 4.8.2. Central Zone		SPL-IR-ES-HYPT		Jabalpur	2023-24	
Genotype	Nutrients Management				Mean	Rk
	100% RFD	Rk	150% RFD+FYM	Rk		
Yield, q/ha						
CG 1044	49.96	5	52.25	5	51.11	5
DBW 377 (I)(C)	65.29	1	70.21	2	67.75	1
DBW 187 (C)	54.00	4	49.66	6	51.83	4
GW 543	62.66	2	69.34	3	66.00	2
GW 322 (C)	40.63	6	52.54	4	46.59	6
DBW 303 (C)	54.64	3	71.34	1	62.99	3
Mean	54.53		60.89		57.71	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		*	0.52	2.16	3.85	
Genotype (B)		**	1.36	3.32	5.77	
B within A		**	1.92	4.69		
A within B			1.83	4.47		

Earhead/sqm						
CG 1044	517	2	457	5	487	5
DBW 377 (I)(C)	475	4	543	2	509	1
DBW 187 (C)	494	3	518	4	506	2
GW 543	459	5	553	1	506	3
GW 322 (C)	539	1	406	6	472	6
DBW 303 (C)	457	6	524	3	491	4
Mean	490		500		495	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	4.84	19.98	4.15	
Genotype (B)		N.S.	9.43	23.01	4.67	
B within A		**	13.34	32.54		
A within B			13.10	31.97		
Grains/Earhead						
CG 1044	23.85	5	28.9	5	26.4	5
DBW 377 (I)(C)	32.67	1	31.7	3	32.2	2
DBW 187 (C)	26.36	4	21.6	6	24.0	6
GW 543	32.13	2	29.7	4	30.9	3
GW 322 (C)	18.33	6	35.7	1	27.0	4
DBW 303 (C)	31.76	3	32.6	2	32.2	1
Mean	27.52		30.0		28.8	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	0.54	2.25	8.02	
Genotype (B)		**	1.08	2.63	9.17	
B within A		**	1.52	3.71		
A within B			1.49	3.64		
1000 Grains Weight, g						
CG 1044	40.59	5	39.6	5	40.1	4
DBW 377 (I)(C)	42.36	2	40.9	4	41.6	3
DBW 187 (C)	41.48	3	44.9	1	43.2	1
GW 543	42.50	1	42.3	2	42.4	2
GW 322 (C)	41.14	4	36.3	6	38.7	6
DBW 303 (C)	37.82	6	41.9	3	39.9	5
Mean	40.98		41.0		41.0	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	0.19	0.78	1.95	
Genotype (B)		**	0.51	1.25	3.06	
B within A		**	0.72	1.76		
A within B			0.69	1.67		

Plant Height, cm						
CG 1044	104.9	1	105.7	1	105.3	1
DBW 377 (I)(C)	94.8	4	96.5	3	95.7	3
DBW 187 (C)	100.8	2	100.7	2	100.8	2
GW 543	93.2	5	93.7	5	93.5	5
GW 322 (C)	91.4	6	91.7	6	91.6	6
DBW 303 (C)	95.1	3	96.1	4	95.6	4
Mean	96.7		97.4		97.1	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	0.66	2.73	2.88	
Genotype (B)		**	1.07	2.62	2.71	
B within A		N.S.	1.52	3.70		
A within B			1.53	3.74		
Date of Sowing	14.11.2023					
Date of Harvesting	07.04.2024					

Table 4.8.3. Central Zone		SPL-IR-ES-HYPT		Powarkheda	2023-24	
Genotype	Nutrients Management				Mean	Rk
	100% RFD	Rk	150% RFD+FYM	Rk		
Yield, q/ha						
CG 1044	52.06	2	61.14	3	56.60	2
DBW 377 (I)(C)	51.57	4	58.16	6	54.86	5
DBW 187 (C)	51.72	3	60.61	4	56.16	3
GW 543	46.03	6	64.96	1	55.50	4
GW 322 (C)	47.84	5	59.70	5	53.77	6
DBW 303 (C)	54.95	1	62.40	2	58.67	1
Mean	50.70		61.16		55.93	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		**	0.20	0.82	1.50	
Genotype (B)		**	0.75	1.84	3.30	
B within A		**	1.07	2.60		
A within B			0.99	2.42		
Earhead/sqm						
CG 1044	367	3	397	3	382	3
DBW 377 (I)(C)	346	5	436	2	391	2
DBW 187 (C)	359	4	351	5	355	5
GW 543	334	6	339	6	336	6
GW 322 (C)	385	1	526	1	456	1
DBW 303 (C)	372	2	370	4	371	4
Mean	360		403		382	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		*	5.46	22.54	6.06	
Genotype (B)		**	5.81	14.18	3.73	
B within A		**	8.22	20.05		
A within B			9.28	22.63		

Grains/Earhead						
CG 1044	31.65	3	31.8	4	31.7	4
DBW 377 (I)(C)	31.90	2	28.3	5	30.1	5
DBW 187 (C)	31.23	4	32.7	3	32.0	3
GW 543	28.78	6	38.1	1	33.4	2
GW 322 (C)	30.33	5	25.4	6	27.8	6
DBW 303 (C)	34.76	1	36.3	2	35.5	1
Mean	31.44		32.1		31.8	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	0.43	1.76	5.70	
Genotype (B)		**	0.59	1.44	4.55	
B within A		**	0.84	2.04		
A within B			0.87	2.13		
1000 Grains Weight, g						
CG 1044	44.83	4	48.5	3	46.7	4
DBW 377 (I)(C)	46.77	2	47.3	4	47.0	3
DBW 187 (C)	46.22	3	52.8	1	49.5	1
GW 543	48.00	1	50.3	2	49.2	2
GW 322 (C)	41.00	6	44.8	6	42.9	6
DBW 303 (C)	42.50	5	46.5	5	44.5	5
Mean	44.89		48.4		46.6	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		**	0.22	0.90	1.97	
Genotype (B)		**	0.19	0.47	1.00	
B within A		**	0.27	0.66		
A within B			0.33	0.80		
Plant Height, cm						
CG 1044	104.0	1	99.0	1	101.5	1
DBW 377 (I)(C)	87.7	3	77.7	3	82.7	2
DBW 187 (C)	86.0	5	77.7	3	81.8	5
GW 543	87.0	4	78.0	2	82.5	3
GW 322 (C)	85.3	6	76.3	5	80.8	6
DBW 303 (C)	88.7	2	76.0	6	82.3	4
Mean	89.8		80.8		85.3	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		*	0.83	3.42	4.12	
Genotype (B)		**	1.41	3.44	4.05	
B within A		N.S.	1.99	4.86		
A within B			2.00	4.88		
Date of Sowing	05.11.2023					
Date of Harvesting	01.04.2024					

Table 4.8.4. Central Zone		SPL-IR-ES-HYPT			Udaipur	2023-24
Genotype	Nutrients Management				Mean	Rk
	100% RFD	Rk	150% RFD+FYM	Rk		
Yield, q/ha						
CG 1044	55.64	5	76.39	4	66.01	4
DBW 377 (I)(C)	56.03	3	81.47	3	68.75	3
DBW 187 (C)	71.47	1	84.21	1	77.84	1
GW 543	55.67	4	75.00	5	65.34	5
GW 322 (C)	67.14	2	83.37	2	75.26	2
DBW 303 (C)	52.94	6	72.82	6	62.88	6
Mean	59.81		78.88		69.35	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		**	0.75	3.11	4.61	
Genotype (B)		**	2.78	6.78	9.82	
B within A		N.S.	3.93	9.59		
A within B			3.67	8.94		
Earhead/sqm						
CG 1044	378	5	439	4	408	4
DBW 377 (I)(C)	408	3	473	3	440	3
DBW 187 (C)	421	1	489	1	455	1
GW 543	379	4	428	5	403	5
GW 322 (C)	411	2	487	2	449	2
DBW 303 (C)	331	6	358	6	344	6
Mean	388		445		417	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	13.79	56.95	14.04	
Genotype (B)		*	21.34	52.05	12.55	
B within A		N.S.	30.18	73.61		
A within B			30.81	75.15		
Grains/Earhead						
CG 1044	28.25	5	33.5	4	30.9	5
DBW 377 (I)(C)	29.99	4	34.2	3	32.1	3
DBW 187 (C)	31.05	3	32.4	5	31.7	4
GW 543	25.68	6	31.8	6	28.7	6
GW 322 (C)	38.92	1	34.7	2	36.8	1
DBW 303 (C)	33.71	2	37.1	1	35.4	2
Mean	31.27		34.0		32.6	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	0.85	3.53	11.11	
Genotype (B)		*	1.74	4.24	13.04	
B within A		N.S.	2.46	5.99		
A within B			2.40	5.85		

1000 Grains Weight, g						
CG 1044	52.24	3	52.2	4	52.2	3
DBW 377 (I)(C)	45.74	5	51.5	5	48.6	5
DBW 187 (C)	54.90	2	54.1	3	54.5	2
GW 543	57.52	1	56.5	1	57.0	1
GW 322 (C)	43.39	6	49.4	6	46.4	6
DBW 303 (C)	48.35	4	55.0	2	51.7	4
Mean	50.36		53.1		51.7	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	0.45	1.88	3.73	
Genotype (B)		**	0.68	1.66	3.22	
B within A		**	0.96	2.35		
A within B			0.99	2.41		
Plant Height, cm						
CG 1044	93.7	1	98.3	1	96.0	1
DBW 377 (I)(C)	84.7	5	90.5	3	87.6	4
DBW 187 (C)	90.9	3	90.9	2	90.9	2
GW 543	84.1	6	88.3	5	86.2	5
GW 322 (C)	85.3	4	85.7	6	85.5	6
DBW 303 (C)	91.1	2	89.0	4	90.1	3
Mean	88.3		90.5		89.4	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	1.62	6.71	7.71	
Genotype (B)		N.S.	3.04	7.42	8.34	
B within A		N.S.	4.30	10.50		
A within B			4.25	10.37		
Date of Sowing	10.11.2023					
Date of Harvesting	25.03.2024					

Table 4.8.5. Central Zone		SPL-IR-ES-HYPT		Vijapur	2023-24	
Genotype	Nutrients Management				Mean	Rk
	100% RFD	Rk	150% RFD+FYM	Rk		
Yield, q/ha						
CG 1044	51.91	3	58.40	6	55.15	4
DBW 377 (I)(C)	49.18	5	61.13	2	55.15	4
DBW 187 (C)	55.44	1	59.74	4	57.59	2
GW 543	53.90	2	61.37	1	57.63	1
GW 322 (C)	48.50	6	59.71	5	54.10	6
DBW 303 (C)	51.61	4	60.56	3	56.09	3
Mean	51.76		60.15		55.95	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		*	1.33	5.50	10.10	
Genotype (B)		N.S.	1.49	3.64	6.54	
B within A		N.S.	2.11	5.15		
A within B			2.34	5.72		

Earhead/sqm						
CG 1044	348	5	328	5	338	5
DBW 377 (I)(C)	345	6	321	6	333	6
DBW 187 (C)	364	3	352	3	358	4
GW 543	359	4	405	1	382	2
GW 322 (C)	366	2	401	2	384	1
DBW 303 (C)	391	1	351	4	371	3
Mean	362		360		361	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	12.55	51.81	14.75	
Genotype (B)		N.S.	14.59	35.59	9.90	
B within A		N.S.	20.63	50.33		
A within B			22.63	55.21		
Grains/Earhead						
CG 1044	27.69	5	35.4	2	31.5	2
DBW 377 (I)(C)	26.91	6	33.8	3	30.4	5
DBW 187 (C)	29.94	1	31.7	5	30.8	4
GW 543	28.03	4	30.5	6	29.3	6
GW 322 (C)	29.90	2	32.2	4	31.1	3
DBW 303 (C)	28.34	3	38.8	1	33.6	1
Mean	28.47		33.7		31.1	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		*	0.51	2.10	6.94	
Genotype (B)		N.S.	1.49	3.64	11.75	
B within A		N.S.	2.11	5.15		
A within B			1.99	4.86		
1000 Grains Weight, g						
CG 1044	54.46	1	50.5	3	52.5	3
DBW 377 (I)(C)	52.97	3	56.7	1	54.8	1
DBW 187 (C)	52.03	4	53.9	2	52.9	2
GW 543	53.50	2	49.8	4	51.6	4
GW 322 (C)	44.24	6	46.5	5	45.3	6
DBW 303 (C)	46.69	5	45.3	6	46.0	5
Mean	50.65		50.4		50.5	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	0.43	1.77	3.60	
Genotype (B)		**	0.99	2.42	4.80	
B within A		*	1.40	3.42		
A within B			1.35	3.29		

Plant Height, cm						
CG 1044	89.6	1	84.7	1	87.1	1
DBW 377 (I)(C)	79.5	6	75.8	4	77.6	5
DBW 187 (C)	86.2	2	74.4	5	80.3	3
GW 543	85.4	3	78.2	3	81.8	2
GW 322 (C)	81.3	5	78.5	2	79.9	4
DBW 303 (C)	82.0	4	70.8	6	76.4	6
Mean	84.0		77.1		80.5	
		F. Test	SEm	CD (0.05)	CV (%)	
NM (A)		N.S.	1.87	7.73	9.86	
Genotype (B)		**	1.52	3.70	4.62	
B within A		N.S.	2.15	5.24		
A within B			2.71	6.61		
Date of Sowing	04.11.2023					
Date of Harvesting	06.03.2024					