

Table 4.5. Central Zone		SPL-IR-ES-HYPT	Centrewise	Yield, q/ha		2022-23
Nutrient management (NM)	Genotypes	BISA Jabalpur	Jabalpur	Udaipur	Vijapur	Zonal Mean
NM1	DBW 187 (C)	89.23	71.31	53.27	51.83	66.41
	GW 322 (C)	89.70	73.58	49.87	49.38	65.63
	DBW 377	88.60	74.98	60.53	52.00	69.03
	DBW 303 (C)	86.57	70.47	50.50	53.17	65.18
	Mean	88.53	72.59	53.54	51.59	66.56
NM2	DBW 187 (C)	88.07	77.82	65.53	59.79	72.80
	GW 322 (C)	88.07	80.05	59.90	58.92	71.73
	DBW 377	88.73	84.39	54.93	60.79	72.21
	DBW 303 (C)	86.53	76.67	69.60	62.17	73.74
	Mean	87.85	79.73	62.49	60.42	72.62
Mean	DBW 187 (C)	88.65	74.57	59.40	55.81	69.61
	GW 322 (C)	88.88	76.81	54.88	54.15	68.68
	DBW 377	88.67	79.69	57.73	56.40	70.62
	DBW 303 (C)	86.55	73.57	60.05	57.67	69.46
	Mean	88.19	76.16	58.02	56.01	69.59
CD (0.05)	NM (A)	5.59	1.08	6.09	3.99	2.18
	Genotypes (B)	4.23	1.51	5.18	5.26	2.22
	B within A	5.99	2.13	7.32	7.43	NS
	A within B	6.21	1.96	7.35	6.88	NS
Date of Sowing		06.11.2022	04.11.2022	11.11.2022	13.11.2022	
Date of Harvesting		04.04.2023	20.03.2023	21.03.2023	27.02.2023	

Table 4.6. Central Zone		SPL-IR-ES-HYPT		Pooled		2022-23	
Genotype	Nutrient Management		Nutrient Management		Mean	Rk	Rk
	NM1	Rk	NM2	Rk			
Yield, q/ha							
DBW 187 (C)	66.41	2	72.80	2	69.61		2
GW 322 (C)	65.63	3	71.73	4	68.68		4
DBW 377	69.03	1	72.21	3	70.62		1
DBW 303 (C)	65.18	4	73.74	1	69.46		3
Mean	66.56		72.62		69.59		
CD (0.05)	NM (A) 1.33		Genotype (B) NS		B within A NS		A within B NS
Earhead/sq.m.							
DBW 187 (C)	365	4	422	3	394		4
GW 322 (C)	372	2	421	4	396		3
DBW 377	370	3	433	1	402		2
DBW 303 (C)	379	1	425	2	402		1
Mean	372		425		399		
CD (0.05)	NM (A) 8.36		Genotype (B) NS		B within A NS		A within B NS
Grains /earhead							
DBW 187 (C)	37.51	4	35.98	3	36.75		3
GW 322 (C)	39.59	1	38.45	1	39.02		1
DBW 377	38.52	2	33.57	4	36.05		4
DBW 303 (C)	38.00	3	37.74	2	37.87		2
Mean	38.41		36.44		37.42		
CD (0.05)	NM (A) 0.89		Genotype (B) 1.57		B within A 2.22		A within B 2.14
1000 grain wt, g							
DBW 187 (C)	48.62	1	48.29	2	48.46		2
GW 322 (C)	44.33	4	44.36	4	44.35		4
DBW 377	48.41	2	49.80	1	49.11		1
DBW 303 (C)	45.15	3	46.20	3	45.68		3
Mean	46.63		47.16		46.90		
CD (0.05)	NM (A) NS		Genotype (B) 0.9		B within A NS		A within B NS
Plant Height, cm							
DBW 187 (C)	95.9	1	87.7	1	91.8		1
GW 322 (C)	90.9	4	86.0	3	88.4		4
DBW 377	93.6	2	86.8	2	90.2		2
DBW 303 (C)	93.4	3	84.7	4	89.1		3
Mean	93.4		86.3		89.9		
CD (0.05)	NM (A) 1.90		Genotype (B) 2.30		B within A NS		A within B NS
Biomass, q/ha							
DBW 187 (C)	141.9	2	156.8	2	149.3		2
GW 322 (C)	135.7	4	154.0	4	144.9		4
DBW 377	143.4	1	156.8	3	150.1		1
DBW 303 (C)	138.9	3	157.5	1	148.2		3
Mean	140.0		156.3		148.1		
CD (0.05)	NM (A) 2.91		Genotype (B) NS		B within A NS		A within B NS
Physiological Maturity, Days							
DBW 187 (C)	121	4	123	4	122		4
GW 322 (C)	122	3	123	3	122		3
DBW 377	124	1	125	1	124		1
DBW 303 (C)	123	2	123	2	123		2
Mean	123		124		123		
CD (0.05)	NM (A) 0.43		Genotype (B) 0.50		B within A 0.71		A within B 0.77

Centres: BISA Jabalpur, Jabalpur, Udaipur, Vijapur

Table 4.6.1 Central Zone		SPL-IR-ES-HYPT			BISA Jabalpur	2022-23
Genotype	Nutrient Management				Mean	Rk
	NM1	Rk	NM2	Rk		
Yield, q/ha						
DBW 187 (C)	89.23	2	88.07	3	88.65	3
GW 322 (C)	89.70	1	88.07	2	88.88	1
DBW 377	88.60	3	88.73	1	88.67	2
DBW 303 (C)	86.57	4	86.53	4	86.55	4
Mean	88.53		87.85		88.19	
	F. Test	SEm	CD (0.05)	CV (%)		
Nutrient Mgt (A)	N.S.	1.35	5.59	5.32		
Genotype (B)	N.S.	1.68	4.23	4.67		
B within A	N.S.	2.38	5.99			
A within B		2.46	6.21			
Earhead/sq.m.						
DBW 187 (C)	450	2	503	2	477	2
GW 322 (C)	443	3	523	1	483	1
DBW 377	438	4	490	3	464	4
DBW 303 (C)	453	1	484	4	469	3
Mean	446		500		473	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	*	8.57	35.40	6.28		
Genotype (B)	N.S.	6.21	15.66	3.22		
B within A	N.S.	8.79	22.14			
A within B		11.46	28.89			
Grains /earhead						
DBW 187 (C)	47.00	2	42.67	2	44.83	2
GW 322 (C)	49.83	1	42.04	3	45.94	1
DBW 377	43.42	4	39.97	4	41.69	4
DBW 303 (C)	45.30	3	43.11	1	44.21	3
Mean	46.39		41.95		44.17	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	N.S.	1.00	4.15	7.88		
Genotype (B)	N.S.	1.13	2.84	6.25		
B within A	N.S.	1.59	4.01			
A within B		1.71	4.30			
1000 grain wt, g						
DBW 187 (C)	42.27	2	41.20	3	41.73	3
GW 322 (C)	40.60	4	40.07	4	40.33	4
DBW 377	46.73	1	45.33	1	46.03	1
DBW 303 (C)	42.20	3	41.47	2	41.83	2
Mean	42.95		42.02		42.48	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	N.S.	0.70	2.88	5.68		
Genotype (B)	**	0.50	1.26	2.87		
B within A	N.S.	0.70	1.78			
A within B		0.93	2.33			
Plant Height, cm						
DBW 187 (C)	105.4	1	93.3	1	99.3	1
GW 322 (C)	99.4	4	92.6	2	96.0	3
DBW 377	103.5	2	92.1	3	97.8	2
DBW 303 (C)	100.6	3	87.5	4	94.1	4
Mean	102.2		91.4		96.8	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	*	0.9	3.8	3.3		
Genotype (B)	**	0.8	2.0	2.0		
B within A	N.S.	1.1	2.8			
A within B		1.3	3.4			

Biomass, q/ha						
DBW 187 (C)	198.1	2	195.3	2	196.7	2
GW 322 (C)	187.4	3	188.1	4	187.8	4
DBW 377	204.2	1	207.8	1	206.0	1
DBW 303 (C)	186.7	4	192.5	3	189.6	3
Mean	194.1		195.9		195.0	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	N.S.	3.1	12.6	5.4		
Genotype (B)	*	3.8	9.5	4.7		
B within A	N.S.	5.3	13.4			
A within B		5.5	13.9			
Physiological Maturity, Days						
DBW 187 (C)	128	4	130	3	129	4
GW 322 (C)	129	3	131	2	130	3
DBW 377	131	1	134	1	132	1
DBW 303 (C)	131	2	129	4	130	2
Mean	130		131		130	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	N.S.	0.33	1.35	0.87		
Genotype (B)	**	0.36	0.91	0.68		
B within A	**	0.51	1.28			
A within B		0.55	1.39			
Date of Sowing:	06.11.2022					
Date of Harvesting:	04.04.2023					
Table 4.6.2. Central Zone						
Genotype	SPL-IR-ES-HYPT				Jabalpur	2022-23
	Nutrient Management					
	NM1	Rk	NM2	Rk	Mean	Rk
Yield, q/ha						
DBW 187 (C)	71.31	3	77.82	3	74.57	3
GW 322 (C)	73.58	2	80.05	2	76.81	2
DBW 377	74.98	1	84.39	1	79.69	1
DBW 303 (C)	70.47	4	76.67	4	73.57	4
Mean	72.59		79.73		76.16	
	F. Test	SEm	CD (0.05)	CV (%)		
Nutrient Mgt (A)	**	0.26	1.08	1.19		
Genotype (B)	**	0.60	1.51	1.93		
B within A	N.S.	0.85	2.13			
A within B		0.78	1.96			
Earhead/sq.m.						
DBW 187 (C)	377	3	417	4	397	3
GW 322 (C)	397	2	435	2	416	2
DBW 377	403	1	458	1	430	1
DBW 303 (C)	363	4	424	3	393	4
Mean	385		434		409	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	**	1.01	4.15	0.85		
Genotype (B)	**	5.64	14.21	3.38		
B within A	N.S.	7.98	20.10			
A within B		6.98	17.59			
Grains /earhead						
DBW 187 (C)	36.80	4	35.70	4	36.25	4
GW 322 (C)	38.92	2	38.88	1	38.90	2
DBW 377	37.69	3	36.72	3	37.21	3
DBW 303 (C)	41.69	1	38.38	2	40.04	1
Mean	38.78		37.42		38.10	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	N.S.	0.28	1.18	2.59		
Genotype (B)	**	0.62	1.56	3.98		
B within A	N.S.	0.88	2.21			
A within B		0.81	2.04			

1000 grain wt, g						
DBW 187 (C)	51.47	1	52.27	1	51.87	1
GW 322 (C)	47.73	3	47.33	3	47.53	3
DBW 377	49.43	2	50.20	2	49.82	2
DBW 303 (C)	46.63	4	47.13	4	46.88	4
Mean	48.82		49.23		49.03	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	N.S.	0.12	0.51	0.87		
Genotype (B)	**	0.14	0.35	0.70		
B within A	*	0.20	0.50			
A within B		0.21	0.53			
Plant Height, cm						
DBW 187 (C)	91.93	1	75.13	1	83.53	1
GW 322 (C)	81.17	4	70.70	3	75.93	4
DBW 377	86.80	3	70.93	2	78.87	3
DBW 303 (C)	91.47	2	69.17	4	80.32	2
Mean	87.84		71.48		79.66	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	**	0.81	3.35	3.52		
Genotype (B)	N.S.	1.83	4.61	5.62		
B within A	N.S.	2.58	6.51			
A within B		2.38	6.00			
Biomass, q/ha						
DBW 187 (C)	133.7	3	153.3	2	143.5	2
GW 322 (C)	140.8	1	144.0	4	142.4	3
DBW 377	134.5	2	165.8	1	150.1	1
DBW 303 (C)	133.1	4	149.6	3	141.3	4
Mean	135.5		153.2		144.3	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	**	0.4	1.5	0.8		
Genotype (B)	**	1.3	3.4	2.3		
B within A	**	1.9	4.7			
A within B		1.7	4.2			
Physiological Maturity						
DBW 187 (C)	128	2	130	2	129	2
GW 322 (C)	127	3	129	3	128	3
DBW 377	131	1	134	1	133	1
DBW 303 (C)	127	3	128	4	128	4
Mean	128		130		129	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	*	0.27	1.12	0.72		
Genotype (B)	**	0.40	1.01	0.76		
B within A	N.S.	0.57	1.42			
A within B		0.56	1.41			
Date of Sowing:	04.11.2022					
Date of Harvesting:	20.03.2023					

Table 4.6.3. Central Zone		SPL-IR-ES-HYPT				Udaipur	2022-23
Genotype	Nutrient Management				Mean	Rk	
	NM1	Rk	NM2	Rk			
Yield, q/ha							
DBW 187 (C)	53.27	2	65.53	2	59.40	2	
GW 322 (C)	49.87	4	59.90	3	54.88	4	
DBW 377	60.53	1	54.93	4	57.73	3	
DBW 303 (C)	50.50	3	69.60	1	60.05	1	
Mean	53.54		62.49		58.02		
	F. Test	SEm	CD (0.05)	CV (%)			
Nutrient Mgt (A)	N.S.	1.48	6.09	8.81			
Genotype (B)	N.S.	2.05	5.18	8.68			
B within A	**	2.91	7.32				
A within B		2.92	7.35				

Earhead/sq.m.						
DBW 187 (C)	318	3	398	3	358	2
GW 322 (C)	332	2	348	4	340	4
DBW 377	304	4	403	1	353	3
DBW 303 (C)	358	1	401	2	379	1
Mean	328		387		358	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	*	9.1	37.5	8.8		
Genotype (B)	N.S.	11.6	29.2	7.9		
B within A	N.S.	16.4	41.3			
A within B		16.8	42.4			
Grains /earhead						
DBW 187 (C)	35.98	2	33.16	2	34.57	2
GW 322 (C)	33.14	3	37.14	1	35.14	1
DBW 377	42.11	1	25.96	4	34.04	3
DBW 303 (C)	29.61	4	33.03	3	31.32	4
Mean	35.21		32.33		33.77	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	**	0.17	0.71	1.77		
Genotype (B)	N.S.	1.25	3.15	9.06		
B within A	**	1.77	4.45			
A within B		1.54	3.88			
1000 grain wt, g						
DBW 187 (C)	46.77	3	49.73	3	48.25	3
GW 322 (C)	45.63	4	46.40	4	46.02	4
DBW 377	47.33	2	52.73	1	50.03	2
DBW 303 (C)	47.80	1	52.60	2	50.20	1
Mean	46.88		50.37		48.63	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	*	0.51	2.09	3.61		
Genotype (B)	**	0.66	1.67	3.33		
B within A	N.S.	0.94	2.36			
A within B		0.96	2.41			
Plant Height, cm						
DBW 187 (C)	100.2	1	102.6	2	101.4	2
GW 322 (C)	95.9	3	98.6	4	97.2	4
DBW 377	99.7	2	103.6	1	101.6	1
DBW 303 (C)	93.5	4	101.3	3	97.4	3
Mean	97.3		101.5		99.4	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	N.S.	2.8	11.4	9.6		
Genotype (B)	N.S.	2.4	6.1	6.0		
B within A	N.S.	3.4	8.7			
A within B		4.1	10.2			
Biomass, q/ha						
DBW 187 (C)	122.8	2	145.2	3	134.0	2
GW 322 (C)	105.5	4	153.1	1	129.3	3
DBW 377	123.2	1	120.2	4	121.7	4
DBW 303 (C)	121.8	3	152.2	2	137.0	1
Mean	118.3		142.7		130.5	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	*	2.9	11.9	7.7		
Genotype (B)	*	3.0	7.6	5.7		
B within A	**	4.3	10.8			
A within B		4.7	11.8			

Physiological Maturity						
DBW 187 (C)	130	3	130	1	130	2
GW 322 (C)	130	1	130	3	130	2
DBW 377	130	1	130	1	130	1
DBW 303 (C)	130	3	129	4	130	4
Mean	130		130		130	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	N.S.	0.59	2.43	1.57		
Genotype (B)	N.S.	0.50	1.26	0.94		
B within A	N.S.	0.71	1.78			
A within B		0.85	2.14			
Date of Sowing:	11.11.2022					
Date of Harvesting:	21.03.2023					

Table 4.6.4. Central Zone	SPL-IR-ES-HYPT				Vijapur	2022-23
	Nutrient Management					
Genotype	NM1	Rk	NM2	Rk	Mean	Rk
Yield, q/ha						
DBW 187 (C)	51.83	3	59.79	3	55.81	3
GW 322 (C)	49.38	4	58.92	4	54.15	4
DBW 377	52.00	2	60.79	2	56.40	2
DBW 303 (C)	53.17	1	62.17	1	57.67	1
Mean	51.59		60.42		56.01	
	F. Test	SEm	CD (0.05)	CV (%)		
Nutrient Mgt (A)	*	0.97	3.99	5.97		
Genotype (B)	N.S.	2.09	5.26	9.12		
B within A	N.S.	2.95	7.43			
A within B		2.73	6.88			
Earhead/sq.m.						
DBW 187 (C)	318	3	371	4	345	4
GW 322 (C)	314	4	377	3	346	3
DBW 377	337	2	381	2	359	2
DBW 303 (C)	343	1	392	1	368	1
Mean	328		380		354	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	*	6.5	26.7	6.3		
Genotype (B)	N.S.	12.7	32.1	8.8		
B within A	N.S.	18.0	45.4			
A within B		16.9	42.5			
Grains /earhead						
DBW 187 (C)	30.28	4	32.40	3	31.34	3
GW 322 (C)	36.47	1	35.76	2	36.11	1
DBW 377	30.87	3	31.62	4	31.24	4
DBW 303 (C)	35.40	2	36.44	1	35.92	2
Mean	33.25		34.05		33.65	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	N.S.	1.05	4.35	10.85		
Genotype (B)	N.S.	1.58	3.99	11.53		
B within A	N.S.	2.24	5.65			
A within B		2.21	5.57			
1000 grain wt, g						
DBW 187 (C)	53.98	1	49.97	2	51.97	1
GW 322 (C)	43.36	4	43.64	3	43.50	4
DBW 377	50.15	2	50.95	1	50.55	2
DBW 303 (C)	43.97	3	43.60	4	43.79	3
Mean	47.86		47.04		47.45	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	N.S.	0.70	2.89	5.11		
Genotype (B)	**	1.09	2.74	5.60		
B within A	N.S.	1.54	3.87			
A within B		1.50	3.79			

Plant Height, cm						
DBW 187 (C)	86.1	3	79.7	4	82.9	3
GW 322 (C)	87.1	2	81.9	1	84.5	1
DBW 377	84.5	4	80.5	3	82.5	4
DBW 303 (C)	87.9	1	80.9	2	84.4	2
Mean	86.4		80.8		83.6	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	*	0.9	3.7	3.7		
Genotype (B)	N.S.	1.6	4.0	4.7		
B within A	N.S.	2.3	5.7			
A within B		2.1	5.4			
Biomass, q/ha						
DBW 187 (C)	112.9	2	133.3	2	123.1	2
GW 322 (C)	109.3	4	130.8	4	120.0	4
DBW 377	112.0	3	133.3	3	122.6	3
DBW 303 (C)	114.1	1	135.7	1	124.9	1
Mean	112.1		133.3		122.7	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	*	2.51	10.37	7.10		
Genotype (B)	N.S.	4.81	12.13	9.61		
B within A	N.S.	6.81	17.16			
A within B		6.41	16.15			
Physiological Maturity						
DBW 187 (C)	121	4	126	1	124	3
GW 322 (C)	122	2	125	2	124	2
DBW 377	122	3	124	4	123	4
DBW 303 (C)	124	1	125	2	125	1
Mean	122.33		125.00		123.67	
	F. Test	SEm	CD (0.05)	CV (%)		
Date of sowing (A)	*	0.10	0.42	0.34		
Genotype (B)	**	0.22	0.56	0.53		
B within A	N.S.	0.31	0.79			
A within B		0.29	0.73			
Date of Sowing:	13.11.2022					
Date of Harvesting:	27.02.2023					