

A-1

Table 1: Performance of pre release genotypes of late maturity under varying nutrient levels in North West Plain Zone (NWPZ).

Nutrient levels	Genotypes	Grain yield (kg/ha)			NWPZ (mean)	Stover yield (kg/ha)			Cob yield (kg/ha)
		Karnal	Ludhiana	Pantnagar		Karnal	Ludhiana	Pantnagar	
100% RDF	SAI-6677	7933	6366	7288	7195	15124	8593	10222	9955
	SYN016802	8380	6634	8169	7728	15275	8588	10667	10259
	GK3302	7908	6231	7780	7307	13642	8833	10000	9723
	GK3303	6221	5782	8151	6718	13633	9370	10667	7715
	HM20303	6967	6056	8129	7050	13942	9009	10889	9244
	VNR-37635	7488	6069	8157	7238	12978	8611	10000	9166
	CP-889	8198	6051	9029	7759	13462	8315	12000	10835
	CP-508	8564	5852	8985	7800	18580	8218	12000	10444
	Bio 9682 (C)	7205	5597	7551	6785	12524	7972	10000	9607
150% RDF	SAI-6677	8428	7486	8455	8123	16438	9843	11667	10489
	SYN016802	8812	7875	8875	8521	16589	9954	11889	10793
	GK3302	8376	7394	8722	8164	14955	10079	11556	10256
	GK3303	6651	6986	8361	7333	14947	10764	11889	8249
	HM20303	7403	7222	9205	7943	15255	10208	12111	9778
	VNR-37635	7955	7449	9286	8230	14291	10157	11556	9699
	CP-889	8642	7306	9368	8438	14775	9495	13444	11369
	CP-508	9039	6981	9475	8498	19893	9505	13556	10978
	Bio 9682 (C)	7674	6856	7937	7489	13838	9319	11556	10140
Location mean		7880.2	6677.5	8495.7	7684.4	15007.9	9268.5	11425.9	9927.8
C.D.(5%) AiBj-AiBk		746.4	841.0	1381.6	989.7	2002.9	1171.0	1618.5	919.0
C.D.(5%) AiBk-AjBk		704.3	1120.0	1490.1	1104.8	1888.3	1563.3	2271.4	866.4
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
100% RDF		7652	6071	8138	7287	14351	8612	10716	9661
150% RDF		8109	7284	8854	8082	15665	9925	12136	10194
C.D. (5%) Ai-Aj		32.2	893.4	837.8	587.8	0.0	1249.5	1888.7	1.4
C.V. (%) Error A		0.3	11.4	8.4	6.7	0.0	11.5	14.1	0.0
F (5%)		S	S	NS	S	S	S	NS	S
SAI-6677		8180	6926	7871	7659	15781	9218	10944	10222
SYN016802		8596	7255	8522	8124	15932	9271	11278	10526
GK3302		8142	6813	8251	7735	14299	9456	10778	9989
GK3303		6436	6384	8256	7025	14290	10067	11278	7982
HM20303		7185	6639	8667	7497	14599	9609	11500	9511
VNR-37635		7722	6759	8722	7734	13634	9384	10778	9433
CP-889		8420	6678	9198	8099	14119	8905	12722	11102
CP-508		8801	6417	9230	8149	19236	8861	12778	10711
Bio 9682 (Check)		7439	6227	7744	7137	13181	8646	10778	9874
C.D. (5%) Bi-Bj		527.8	594.7	977.0	699.8	1416.3	828.0	1144.5	649.8
C.V. (%) ErrorB		5.7	7.6	9.8	7.7	8.0	7.6	8.5	5.6
F (5%)		S	S	S	S	S	S	S	S

Cont...

A-2

Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		Plant height (cm)		
		Karnal	Ludhiana	Pantnagar	Ludhiana	Pantnagar	Karnal	Ludhiana	Pantnagar
100% RDF	SAI-6677	65.6	79.6	64.4	77.8	64.4	215.0	211.3	211.4
	SYN016802	65.6	81.0	63.3	78.2	63.3	235.0	215.0	198.4
	GK3302	65.3	79.6	62.2	76.9	62.2	210.0	217.7	206.9
	GK3303	65.0	81.0	64.4	78.2	64.4	225.0	223.3	213.9
	HM20303	65.3	79.2	63.3	76.9	63.3	226.7	219.3	202.5
	VNR-37635	65.3	79.6	66.7	76.4	66.7	220.0	215.0	203.5
	CP-889	64.7	79.6	63.3	76.9	63.3	201.7	212.3	204.7
	CP-508	64.7	80.1	63.3	76.4	63.3	220.0	207.0	206.9
	Bio 9682 (C)	64.7	79.6	63.3	75.0	63.3	215.0	192.3	196.3
150% RDF	SAI-6677	64.2	82.4	65.6	81.5	65.6	225.7	234.7	215.8
	SYN016802	65.0	82.4	63.3	81.0	63.3	242.3	236.0	203.7
	GK3302	64.2	82.4	63.3	80.1	63.3	221.3	241.7	210.5
	GK3303	64.7	81.9	63.3	80.1	63.3	235.0	243.7	218.6
	HM20303	64.4	81.0	64.4	78.7	64.4	237.7	243.7	207.1
	VNR-37635	65.0	80.6	66.7	79.6	66.7	231.3	238.3	207.3
	CP-889	64.4	81.0	63.3	80.6	63.3	212.3	232.0	210.9
	CP-508	64.7	82.4	63.3	80.1	63.3	230.7	229.3	214.6
	Bio 9682 (C)	63.9	82.4	64.4	78.2	64.4	226.0	212.3	203.7
Location mean		64.8	80.9	64.0	78.5	64.0	223.9	223.6	207.6
C.D.(5%) AiBj-AiBk		1.4	5.7	5.5	3.6	5.5	9.8	25.6	11.4
C.D.(5%) AiBk-AjBk		2.3	6.0	5.3	4.2	5.3	9.4	37.9	13.3
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
100% RDF		65.1	79.9	63.8	77.0	63.8	218.7	212.6	204.9
150% RDF		64.5	81.8	64.2	80.0	64.2	229.1	234.6	210.2
C.D. (5%) Ai-Aj		2.1	3.1	0.9	2.7	0.9	2.0	32.6	9.0
C.V. (%) Error A		2.7	3.3	1.2	3.0	1.2	0.8	12.5	3.7
F (5%)		NS	NS	NS	S	NS	S	NS	NS
SAI-6677		64.9	81.0	65.0	79.6	65.0	220.3	223.0	213.6
SYN016802		65.3	81.7	63.3	79.6	63.3	238.7	225.5	201.1
GK3302		64.7	81.0	62.8	78.5	62.8	215.7	229.7	208.7
GK3303		64.9	81.5	63.9	79.2	63.9	230.0	233.5	216.3
HM20303		64.9	80.1	63.9	77.8	63.9	232.2	231.5	204.8
VNR-37635		65.1	80.1	66.7	78.0	66.7	225.7	226.7	205.4
CP-889		64.6	80.3	63.3	78.7	63.3	207.0	222.2	207.8
CP-508		64.7	81.3	63.3	78.2	63.3	225.3	218.2	210.7
Bio 9682 (Check)		64.3	81.0	63.9	76.6	63.9	220.5	202.3	200.0
C.D. (5%) Bi-Bj		1.0	4.0	3.9	2.6	3.9	6.9	18.1	8.1
C.V. (%) ErrorB		1.3	4.2	5.2	2.8	5.2	2.6	6.9	3.3
F (5%)		NS	NS	NS	NS	NS	S	NS	S

Cont...

A-3

Nutrient levels	Genotypes	Days to 50% tasseling			Days to 50% silking			100-seed weight (g)
		Karnal	Ludhiana	Pantnagar	Karnal	Ludhiana	Pantnagar	Pantnagar
100% RDF	SAI-6677	60.7	60.3	55.3	63.7	62.3	58.3	28.6
	SYN016802	59.7	60.7	55.7	62.7	62.7	59.0	30.3
	GK3302	56.7	58.0	53.0	59.7	61.0	56.0	30.3
	GK3303	56.0	58.7	53.3	59.0	60.7	56.3	27.8
	HM20303	56.0	59.3	53.3	59.0	61.3	56.7	30.5
	VNR-37635	56.0	59.0	53.0	59.0	62.0	56.0	31.9
	CP-889	55.3	60.3	54.3	58.3	62.0	57.7	31.6
	CP-508	57.7	59.0	53.0	60.7	61.0	56.0	32.5
	Bio 9682 (C)	58.0	59.3	53.3	61.0	61.7	56.3	25.3
150% RDF	SAI-6677	60.3	59.0	55.3	63.3	61.7	58.7	29.1
	SYN016802	59.3	59.7	55.3	62.3	61.3	58.3	30.6
	GK3302	56.0	57.7	53.0	59.0	59.7	56.0	30.4
	GK3303	55.0	57.7	53.3	58.0	59.7	56.3	28.4
	HM20303	54.7	59.0	53.0	57.7	60.7	56.3	32.5
	VNR-37635	55.0	57.3	53.3	58.0	59.3	56.3	33.8
	CP-889	57.3	59.0	54.3	60.3	62.0	57.3	32.5
	CP-508	54.3	58.7	53.3	57.3	60.7	56.3	33.5
	Bio 9682 (C)	56.3	58.7	53.0	59.3	61.3	56.3	26.0
Location mean		56.9	59.0	53.8	59.9	61.2	56.9	30.3
C.D.(5%) AiBj-AiBk		1.8	2.0	0.8	1.8	2.1	0.9	2.4
C.D.(5%) AiBk-AjBk		2.0	1.9	0.8	2.0	2.6	1.0	2.4
F(5%)		S	NS	NS	S	NS	NS	NS
100% RDF		57.3	59.4	53.8	60.3	61.6	56.9	29.9
150% RDF		56.5	58.5	53.8	59.5	60.7	56.9	30.8
C.D. (5%) Ai-Aj		1.2	0.3	0.2	1.2	1.9	0.4	0.8
C.V. (%) Error A		1.9	0.4	0.3	1.8	2.6	0.6	2.4
F (5%)		NS	S	NS	NS	NS	NS	S
SAI-6677		60.5	59.7	55.3	63.5	62.0	58.5	28.9
SYN016802		59.5	60.2	55.5	62.5	62.0	58.7	30.5
GK3302		56.3	57.8	53.0	59.3	60.3	56.0	30.4
GK3303		55.5	58.2	53.3	58.5	60.2	56.3	28.1
HM20303		55.3	59.2	53.2	58.3	61.0	56.5	31.5
VNR-37635		55.5	58.2	53.2	58.5	60.7	56.2	32.8
CP-889		56.3	59.7	54.3	59.3	62.0	57.5	32.0
CP-508		56.0	58.8	53.2	59.0	60.8	56.2	33.0
Bio 9682 (Check)		57.2	59.0	53.2	60.2	61.5	56.3	25.7
C.D. (5%) Bi-Bj		1.2	1.4	0.6	1.2	1.5	0.7	1.7
C.V. (%) ErrorB		1.9	2.1	0.9	1.8	2.0	1.0	4.8
F (5%)		S	S	S	S	NS	S	S

Cont...

A-4

Nutrient levels	Genotypes	Net returns (Rs/ha)			B:C ratio			Shelling (%)	Barren plant ('000/ha)
		Karnal	Ludhiana	Pantnagar	Karnal	Ludhiana	Pantnagar	Karnal	Ludhiana
100% RDF	SAI-6677	115391	81587	99329	3.71	1.71	2.28	79.7	1.85
	SYN016802	124114	86602	116626	3.91	1.81	2.67	81.7	2.78
	GK3302	114912	79365	108993	3.70	1.66	2.50	81.3	2.78
	GK3303	82018	71611	116257	2.93	1.50	2.66	80.7	2.78
	HM20303	96564	76286	115826	3.27	1.60	2.65	75.3	2.31
	VNR-37635	106718	76068	116380	3.51	1.59	2.67	81.7	3.24
	CP-889	120562	75366	133491	3.83	1.58	3.06	75.7	2.78
	CP-508	127712	71527	132630	3.99	1.50	3.04	82.0	3.70
	Bio 9682 (C)	101209	66471	104500	3.38	1.39	2.39	75.0	4.63
150% RDF	SAI-6677	121389	98444	119319	3.62	1.85	2.56	80.3	0.93
	SYN016802	128884	105850	127567	3.78	1.98	2.74	81.7	1.39
	GK3302	120370	96997	124551	3.60	1.82	2.67	81.7	2.31
	GK3303	86743	90200	117473	2.88	1.69	2.52	80.7	1.85
	HM20303	101393	93949	134030	3.19	1.76	2.88	75.7	2.31
	VNR-37635	112172	98130	135631	3.43	1.84	2.91	82.0	0.93
	CP-889	125559	94651	137231	3.71	1.77	2.95	76.0	0.46
	CP-508	133295	88602	139324	3.88	1.66	2.99	82.3	2.31
	Bio 9682 (C)	106676	86042.3	109163	3.31	1.61	2.34	75.7	3.2
Location mean		112537.8	85430.5	121573.4	3.54	1.68	2.69	79.4	2.37
C.D.(5%) AiBj-AiBk		14555.2	16422.8	27107.5	0.32	0.32	0.60	1.5	1.59
C.D.(5%) AiBk-AjBk		13733.1	22382.8	29236.6	0.31	0.44	0.65	1.4	1.54
F(5%)		NS	NS	NS	NS	NS	NS	NS	NS
100% RDF		109911	76098	116003	3.58	1.59	2.66	79.2	2.98
150% RDF		115164	94763	127143	3.49	1.78	2.73	79.6	1.75
C.D. (5%) Ai-Aj		627.5	18204.8	16437.1	0.03	0.35	0.38	0.3	0.38
C.V. (%) Error A		0.5	18.2	11.5	0.62	18.0	11.9	0.3	13.8
F (5%)		S	S	NS	S	NS	NS	S	S
SAI-6677		118390	90016	109324	3.67	1.78	2.42	80.0	1.39
SYN016802		126499	96226	122097	3.85	1.90	2.71	81.7	2.08
GK3302		117641	88181	116772	3.65	1.74	2.59	81.5	2.55
GK3303		84380	80906	116865	2.91	1.59	2.59	80.7	2.31
HM20303		98978	85117	124928	3.23	1.68	2.77	75.5	2.31
VNR-37635		109445	87099	126005	3.47	1.72	2.79	81.8	2.08
CP-889		123060	85009	135361	3.77	1.68	3.00	75.8	1.62
CP-508		130503	80065	135977	3.93	1.58	3.01	82.2	3.01
Bio 9682 (Check)		103943	76257	106831	3.34	1.50	2.37	75.3	3.94
C.D. (5%) Bi-Bj		10292.1	11612.7	19167.9	0.23	0.23	0.43	1.0	1.13
C.V. (%) ErrorB		7.8	11.6	13.4	5.5	11.5	13.5	1.1	40.4
F (5%)		S	NS	S	S	NS	S	S	S

A-5

Table 2: Performance of pre release genotypes of late maturity under varying planting density and nutrient levels in Peninsular Zone (PZ).

Planting density	Nutrient levels	Genotypes	Grain yield (kg/ha)			PZ (mean)
			Coimbatore	Dharwad	Karimnagar	
Normal	100% RDF	ADV 7251	12218	6986	6626	8610
		R 3414	13057	7264	7396	9239
		NK 6240 (C)	11888	6929	7030	8615
	150% RDF	ADV 7251	10067	7429	6767	8088
		R 3414	12711	7632	7670	9338
		NK 6240 (C)	12442	7707	6952	9033
High	100% RDF	ADV 7251	13392	7193	6959	9181
		R 3414	14191	7380	7911	9827
		NK 6240 (C)	12502	7451	7811	9255
	150% RDF	ADV 7251	11958	7918	7433	9103
		R 3414	12016	8067	7763	9282
		NK 6240 (C)	12594	8401	7593	9529

Mean of location	12419.7	7529.8	7325.9	9091.8
------------------	---------	--------	--------	---------------

Normal	12064	7324	7074	8821
High	12776	7735	7578	9363
CD at 5%	NS	NS	NS	NS
CV (%)	19.6	19.3	8.0	15.6

100% RDF	12875	7201	7289	9121
150% RDF	11965	7859	7363	9062
CD at 5%	701.5	230.7	NS	466.1
CV (%)	6.1	3.3	12.3	7.2

ADV 7251	11909	7382	6946	8746
R 3414	12994	7586	7685	9422
NK 6240 (C)	12356	7622	7346	9108
CD at 5%	NS	NS	NS	NS
CV (%)	12.2	4.4	9.5	8.7

Cont...

A-6

Planting density	Nutrient levels	Genotypes	Stover yield (kg/ha)			Cob yield (kg/ha)	
			Coimbatore	Dharwad	Karimnagar	Coimbatore	Karimnagar
Normal	100% RDF	ADV 7251	29979	7907	9405	14218	8969
		R 3414	30144	8720	9786	15178	10067
		NK 6240 (C)	24138	8418	9454	14029	9696
	150% RDF	ADV 7251	39265	8407	9440	11690	8887
		R 3414	28206	8674	10370	14801	10441
		NK 6240 (C)	27472	8850	9730	14973	9616
High	100% RDF	ADV 7251	43399	8365	9724	15914	9364
		R 3414	34365	8567	10761	16734	10739
		NK 6240 (C)	30256	8490	10710	14526	10590
	150% RDF	ADV 7251	40195	9232	10262	13607	9457
		R 3414	31559	9820	10518	13886	10061
		NK 6240 (C)	28540	10020	10223	14979	10399

Mean of location	32293.2	8789.2	10031.9	14544.7	9857.2
------------------	---------	--------	---------	---------	--------

Normal	29867	8496	9697	14148	9613
High	34719	9082	10366	14941	10102
CD at 5%	NS	NS	NS	NS	NS
CV (%)	17.2	18.7	7.1	24.6	9.7

100% RDF	32047	8411	9973	15100	9904
150% RDF	32540	9167	10091	13989	9810
CD at 5%	NS	643.9	NS	NS	NS
CV (%)	21.0	7.9	5.3	10.8	11.0

ADV 7251	38209	8478	9708	13857	9169
R 3414	31069	8945	10359	15150	10327
NK 6240 (C)	27602	8945	10029	14627	10075
CD at 5%	4467.7	NS	NS	NS	718.4
CV (%)	16.0	6.9	7.9	13.2	8.4

Cont...

A-7

Planting density	Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		
			Coimbatore	Dharwad	Karimnagar	Coimbatore	Dharwad	Karimnagar
Normal	100% RDF	ADV 7251	61.1	81.0	76.0	62.5	74.8	76.0
		R 3414	63.0	80.4	74.0	66.2	76.3	74.0
		NK 6240 (C)	61.6	79.4	75.0	65.3	77.0	75.0
	150% RDF	ADV 7251	59.3	81.2	74.7	57.4	78.6	74.7
		R 3414	63.0	80.1	75.3	66.2	80.2	75.3
		NK 6240 (C)	64.8	80.6	74.7	69.4	79.2	74.7
High	100% RDF	ADV 7251	74.1	94.3	86.7	66.2	79.9	86.7
		R 3414	81.0	95.3	88.3	75.5	94.1	88.3
		NK 6240 (C)	74.1	94.9	86.0	72.2	93.5	86.0
	150% RDF	ADV 7251	72.2	94.9	88.3	68.5	94.6	88.3
		R 3414	72.2	95.6	86.3	71.3	94.8	86.3
		NK 6240 (C)	74.1	95.2	87.0	67.6	93.3	87.0

Mean of location	68.4	87.7	81.0	67.4	84.7	81.0
------------------	------	------	------	------	------	------

Normal	62.1	80.4	74.9	64.5	77.7	74.9
High	74.6	95.1	87.1	70.2	91.7	87.1
CD at 5%	3.5	0.6	3.6	NS	1.6	3.6
CV (%)	3.6	0.5	3.1	10.5	1.3	3.1

100% RDF	69.1	87.5	81.0	68.0	82.6	81.0
150% RDF	67.6	87.9	81.1	66.7	86.8	81.1
CD at 5%	NS	NS	NS	NS	2.3	NS
CV (%)	5.2	1.6	1.9	7.7	3.0	1.9

ADV 7251	66.7	87.9	81.4	63.7	82.0	81.4
R 3414	69.8	87.8	81.0	69.8	86.4	81.0
NK 6240 (C)	68.6	87.5	80.7	68.6	85.8	80.7
CD at 5%	NS	NS	NS	4.5	1.0	NS
CV (%)	6.1	1.0	2.0	7.7	1.4	2.0

Cont...

A-8

Planting density	Nutrient levels	Genotypes	Plant height (cm)			Ear height (cm)
			Coimbatore	Dharwad	Karimnagar	Karimnagar
Normal	100% RDF	ADV 7251	274.0	206.2	141.7	50.7
		R 3414	257.2	210.3	135.0	47.3
		NK 6240 (C)	273.1	210.5	141.0	50.0
	150% RDF	ADV 7251	263.9	214.2	143.3	55.7
		R 3414	259.2	217.5	141.0	49.0
		NK 6240 (C)	277.3	215.9	142.3	47.6
High	100% RDF	ADV 7251	273.2	209.9	141.3	50.3
		R 3414	282.4	216.2	142.3	50.7
		NK 6240 (C)	274.3	206.2	140.3	48.7
	150% RDF	ADV 7251	265.0	222.5	145.7	51.7
		R 3414	274.7	221.0	142.7	50.7
		NK 6240 (C)	290.3	219.6	146.0	50.3

Mean of location	272.1	214.2	141.9	50.2
------------------	-------	-------	-------	------

Normal	267.5	212.4	140.7	50.0
High	276.7	215.9	143.1	50.4
CD at 5%	NS	5.5	NS	NS
CV (%)	5.2	NS	1.5	3.1

100% RDF	272.4	209.9	140.3	49.6
150% RDF	271.7	218.5	143.5	50.8
CD at 5%	NS	5.2	2.1	NS
CV (%)	3.6	2.6	1.6	2.6

ADV 7251	269.0	213.2	143.0	52.1
R 3414	268.4	216.3	140.3	49.4
NK 6240 (C)	278.8	213.1	142.4	49.2
CD at 5%	NS	NS	NS	1.4
CV (%)	4.5	2.8	2.4	3.1

Cont...

A-9

Planting density	Nutrient levels	Genotypes	Days to 50% tasseling			Days to 50% silking		
			Coimbatore	Dharwad	Karimnagar	Coimbatore	Dharwad	Karimnagar
Normal	100% RDF	ADV 7251	55.0	48.3	62.7	60.7	55.0	66.3
		R 3414	55.7	48.7	63.3	61.0	54.7	66.7
		NK 6240 (C)	51.0	50.0	62.7	56.7	55.3	66.0
	150% RDF	ADV 7251	55.3	48.7	61.3	60.7	54.3	65.0
		R 3414	56.3	48.3	60.3	61.7	55.0	64.3
		NK 6240 (C)	54.0	49.0	61.3	59.0	54.7	64.7
High	100% RDF	ADV 7251	54.3	48.7	61.3	59.7	54.3	65.3
		R 3414	53.7	49.3	62.3	59.7	54.7	66.0
		NK 6240 (C)	51.3	51.0	61.3	56.7	56.3	65.3
	150% RDF	ADV 7251	54.3	50.3	62.7	59.7	55.3	66.0
		R 3414	55.0	48.7	62.7	60.3	54.3	66.7
		NK 6240 (C)	51.7	50.0	63.7	56.7	55.0	67.3

Mean of location	54.0	49.3	62.1	59.4	54.9	65.8
------------------	------	------	------	------	------	------

Normal	54.6	48.8	61.9	59.9	54.8	65.5
High	53.4	49.7	62.3	58.8	55.0	66.1
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	3.7	4.2	1.0	2.9	3.6	0.7

100% RDF	53.5	49.3	62.3	59.1	55.1	65.9
150% RDF	54.4	49.2	62.0	59.7	54.8	65.7
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	2.4	2.6	1.3	1.5	2.4	1.3

ADV 7251	54.8	49.0	62.0	60.2	54.8	65.7
R 3414	55.2	48.8	62.2	60.7	54.7	65.9
NK 6240 (C)	52.0	50.0	62.3	57.3	55.3	65.8
CD at 5%	1.0	0.9	NS	1.2	NS	NS
CV (%)	2.1	2.1	1.2	2.4	1.5	1.2

Cont...

A-10

Planting density	Nutrient levels	Genotypes	100-seed weight (g)			Shelling (%)		FAW (%) (at 30 DAS)
			Coimbatore	Dharwad	Karimnagar	Coimbatore	Karimnagar	Dharwad
Normal	100% RDF	ADV 7251	40.7	31.2	28.5	86.1	73.9	1.73
		R 3414	34.2	31.6	28.5	86.4	73.4	1.70
		NK 6240 (C)	42.6	31.8	32.5	85.1	72.4	2.00
	150% RDF	ADV 7251	43.4	32.2	30.9	86.3	75.9	1.77
		R 3414	35.2	31.0	27.5	86.2	73.4	1.67
		NK 6240 (C)	45.5	32.3	32.2	83.1	72.4	2.30
High	100% RDF	ADV 7251	41.3	32.5	29.5	84.4	74.5	1.63
		R 3414	34.6	31.4	30.2	85.4	73.7	1.63
		NK 6240 (C)	44.7	31.9	31.5	86.2	74.0	1.43
	150% RDF	ADV 7251	41.4	33.0	30.2	87.8	78.5	1.97
		R 3414	42.6	33.1	28.3	86.7	77.2	1.57
		NK 6240 (C)	44.7	32.5	31.2	84.1	73.1	1.73

Mean of location	40.9	32.0	30.1	85.6	74.4	1.76
------------------	------	------	------	------	------	------

Normal	40.3	31.7	30.0	85.5	73.6	1.86
High	41.6	32.4	30.1	85.8	75.1	1.66
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	13.6	5.0	2.0	6.5	4.3	12.4

100% RDF	39.7	31.7	30.1	85.6	73.6	1.69
150% RDF	42.1	32.4	30.0	85.7	75.1	1.83
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	9.9	2.4	3.5	4.9	2.8	18.8

ADV 7251	41.7	32.2	29.8	86.2	75.7	1.78
R 3414	36.7	31.8	28.6	86.2	74.4	1.64
NK 6240 (C)	44.4	32.1	31.8	84.6	73.0	1.87
CD at 5%	3.6	NS	1.9	NS	1.9	NS
CV (%)	10.2	3.4	7.5	3.2	3.0	18.1

Cont...

A-11

Planting density	Nutrient levels	Genotypes	Net returns (Rs./ha)			B:C ratio		
			Coimbatore	Dharwad	Karimnagar	Coimbatore	Dharwad	Karimnagar
Normal	100% RDF	ADV 7251	193312	76069	71592	3.56	2.26	2.23
		R 3414	211774	81506	86706	3.81	2.36	2.48
		NK 6240 (C)	186040	74963	79512	3.46	2.25	2.36
	150% RDF	ADV 7251	141629	82772	70059	2.77	2.33	2.12
		R 3414	199807	86722	87782	3.50	2.40	2.40
		NK 6240 (C)	193879	86075	73688	3.43	2.39	2.18
High	100% RDF	ADV 7251	219132	79222	78125	3.90	2.30	2.34
		R 3414	236719	82851	96810	4.14	2.36	2.66
		NK 6240 (C)	199564	84252	94842	3.64	2.38	2.62
	150% RDF	ADV 7251	183240	91510	83125	3.30	2.45	2.32
		R 3414	184523	94410	89600	3.31	2.50	2.43
		NK 6240 (C)	197234	100918	86258	3.47	2.60	2.38

Mean of location 195571.1 85105.8 83175.0 3.52 2.38 2.38

Normal	187740	81351	78223	3.42	2.33	2.29
High	203402	88861	88127	3.63	2.43	2.46
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	27.3	33.8	13.8	19.6	19.6	8.1

100% RDF	207757	79811	84598	3.75	2.32	2.45
150% RDF	183385	90401	81752	3.30	2.45	2.30
CD at 5%	15433.2	4449.9	NS	0.2	0.1	NS
CV (%)	8.5	5.6	21.2	6.4	3.1	12.4

ADV 7251	184328	82393	75725	3.38	2.34	2.25
R 3414	208206	86372	90225	3.69	2.40	2.49
NK 6240 (C)	194179	86552	83575	3.50	2.40	2.39
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	17.0	7.0	16.4	12.0	4.1	9.3

Cont...

A-12

Planting density	Nutrient levels	Genotypes	Cob length (cm)		Cob girth (cm)	Cob diameter (cm)	Grain rows/cob		Grains/row	
			Coimb.	Karim.	Coimb.	Karim.	Coimb.	Karim.	Coimb.	Karim.
Normal	100% RDF	ADV 7251	18.5	15.3	17.1	4.35	15.3	14.3	41.1	29.0
		R 3414	18.3	14.8	16.8	4.54	15.2	14.5	40.1	30.3
		NK 6240 (C)	18.8	14.4	16.8	4.17	14.5	12.5	33.5	23.0
	150% RDF	ADV 7251	19.1	16.5	18.0	4.41	16.3	13.7	39.5	33.0
		R 3414	18.6	15.6	17.2	4.31	15.9	13.7	40.9	34.3
		NK 6240 (C)	19.8	15.5	17.7	4.32	14.7	12.8	34.3	25.7
High	100% RDF	ADV 7251	18.0	15.6	16.2	4.15	15.7	13.2	35.5	30.8
		R 3414	17.1	15.4	16.6	4.60	14.9	14.1	38.5	30.6
		NK 6240 (C)	19.0	14.5	17.0	4.22	14.3	12.4	36.8	23.5
	150% RDF	ADV 7251	19.1	16.0	17.1	4.65	15.7	14.5	40.1	31.4
		R 3414	17.2	15.4	16.7	4.64	15.2	14.0	35.7	30.7
		NK 6240 (C)	18.9	15.4	17.0	4.41	14.8	13.2	37.7	28.3

Mean of location 18.5 15.4 17.0 4.40 15.2 13.6 37.8 29.2

Normal	18.8	15.4	17.3	4.35	15.3	13.6	38.2	29.2
High	18.2	15.4	16.8	4.45	15.1	13.6	37.4	29.2
CD at 5%	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)	4.6	5.6	3.8	3.8	8.9	7.8	5.5	2.06

100% RDF	18.3	15.0	16.8	4.34	15.0	13.5	37.6	27.9
150% RDF	18.8	15.8	17.3	4.46	15.4	13.7	38.0	30.6
CD at 5%	0.5	NS	NS	NS	0.4	NS	NS	NS
CV (%)	2.8	7.5	4.0	4.1	3.0	8.5	3.0	2.06

ADV 7251	18.7	15.8	17.1	4.39	15.8	13.9	39.1	31.1
R 3414	17.8	15.3	16.8	4.52	15.3	14.1	38.8	31.5
NK 6240 (C)	19.1	15.0	17.1	4.28	14.6	12.7	35.6	25.1
CD at 5%	0.9	NS	NS	0.15	0.8	0.5	3.0	NS
CV (%)	5.6	5.5	3.5	3.9	6.1	4.3	9.0	2.52

Coimb. = Coimbatore

Karim. = Karimnagar

A-13

Table 3: Performance of pre release genotypes of late maturity under varying planting density and nutrient levels in Central Western Zone (CWZ).

Planting density	Nutrient levels	Genotypes	Grain yield (kg/ha)			CWZ (mean)
			Banswara	Godhara	Udaipur	
Normal	100% RDF	ADV-7251	6645	11567	5114	7775
		DKC-9215	7459	11400	4245	7701
		Bio 9862 (C)	6622	10033	4632	7096
	150% RDF	ADV-7251	7574	11900	5247	8240
		DKC-9215	8017	12633	4333	8328
		Bio 9862 (C)	7178	10600	4699	7492
High	100% RDF	ADV-7251	7992	9667	5931	7863
		DKC-9215	8201	10867	4925	7997
		Bio 9862 (C)	7323	9467	5415	7402
	150% RDF	ADV-7251	8269	9467	6029	7921
		DKC-9215	8783	10133	5030	7982
		Bio 9862 (C)	7485	8867	5391	7248

Mean of location	7629.0	10550.0	5082.6	7753.9
------------------	--------	---------	--------	---------------

Normal	7249	11356	4712	7772
High	8009	9744	5453	7736

CD at 5%	NS	1283.0	469.2	876.1
----------	----	--------	-------	--------------

CV (%)	13.6	8.5	6.4	9.5
--------	------	-----	-----	------------

100% RDF	7374	10500	5044	7639
150% RDF	7884	10600	5122	7869

CD at 5%	NS	291.0	469.2	380.1
----------	----	-------	-------	--------------

CV (%)	10.3	3.0	5.5	6.3
--------	------	-----	-----	------------

ADV-7251	7620	10650	5580	7950
DKC-9215	8115	11258	4633	8002
Bio 9862 (Check)	7152	9742	5034	7309

CD at 5%	NS	868.7	225.3	547.0
----------	----	-------	-------	--------------

CV (%)	14.3	9.5	5.1	9.6
--------	------	-----	-----	------------

Cont...

A-14

Planting density	Nutrient levels	Genotypes	Stover yield (kg/ha)			Plants ('000/ha)		
			Banswara	Godhara	Udaipur	Banswara	Godhara	Udaipur
Normal	100% RDF	ADV-7251	8273	11333	7645	63.3	80.0	60.2
		DKC-9215	9509	13167	6337	64.6	76.0	59.8
		Bio 9862 (C)	8925	11733	6971	64.2	77.0	60.2
	150% RDF	ADV-7251	9246	12067	8136	63.8	78.0	61.3
		DKC-9215	10257	12833	6595	64.4	74.7	61.2
		Bio 9862 (C)	9270	13367	7282	64.3	80.7	61.1
High	100% RDF	ADV-7251	9525	10533	8832	80.5	97.7	76.7
		DKC-9215	9747	11867	7345	82.0	97.3	77.6
		Bio 9862 (C)	9052	12033	8112	81.0	96.3	76.0
	150% RDF	ADV-7251	9514	11400	9180	80.7	99.3	75.1
		DKC-9215	10772	10967	7679	81.4	92.3	75.8
		Bio 9862 (C)	9327	10867	8164	81.4	96.0	76.7

Mean of location 9451.5 11847.2 7689.7 72.6 87.1 68.5

Normal	9247	12417	7161	64.1	77.7	60.6
High	9656	11278	8218	81.2	96.5	76.3
CD at 5%	NS	NS	749.8	2.8	5.4	2.4
CV (%)	24.0	11.3	6.8	2.6	4.3	2.5

100% RDF	9172	11778	7540	72.6	87.4	68.4
150% RDF	9731	11917	7839	72.7	86.8	68.5
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	16.2	12.8	5.8	0.8	3.5	1.2

ADV-7251	9140	11333	8448	72.1	88.8	68.3
DKC-9215	10071	12208	6989	73.1	85.1	68.6
Bio 9862 (Check)	9144	12000	7632	72.7	87.5	68.5
CD at 5%	NS	NS	347.3	NS	NS	NS
CV (%)	11.4	14.4	5.2	1.6	6.2	2.9

Cont...

A-15

Planting density	Nutrient levels	Genotypes	Cobs ('000/ha)			Plant height (cm)		
			Banswara	Godhara	Udaipur	Banswara	Godhara	Udaipur
Normal	100% RDF	ADV-7251	64.5	66.7	62.8	208.3	177.0	200.3
		DKC-9215	66.5	68.7	62.4	216.7	204.7	174.7
		Bio 9862 (C)	65.3	80.0	62.4	223.3	178.3	170.2
	150% RDF	ADV-7251	66.7	73.7	63.9	205.0	171.7	205.4
		DKC-9215	66.7	67.7	64.0	251.7	200.0	179.8
		Bio 9862 (C)	66.3	80.7	64.0	231.7	173.3	175.5
High	100% RDF	ADV-7251	84.5	73.3	80.2	228.3	176.7	205.4
		DKC-9215	83.9	82.7	81.0	238.3	202.0	179.9
		Bio 9862 (C)	86.2	90.3	79.4	225.0	172.7	175.6
	150% RDF	ADV-7251	88.4	82.7	78.5	205.0	176.7	210.1
		DKC-9215	83.6	73.0	79.2	225.0	201.3	183.9
		Bio 9862 (C)	84.8	86.3	80.7	215.0	179.3	181.1

Mean of location	75.6	77.1	71.5	222.8	184.5	186.8
------------------	------	------	------	-------	-------	-------

Normal	66.0	72.9	63.2	222.8	184.2	184.3
High	85.2	81.4	79.8	222.8	184.8	189.3
CD at 5%	7.4	NS	3.5	NS	NS	NS
CV (%)	6.8	13.7	3.4	2.2	1.4	8.1

100% RDF	75.2	76.9	71.4	223.3	185.2	184.4
150% RDF	76.1	77.3	71.7	222.2	183.7	189.3
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	5.3	13.8	1.7	4.5	2.9	6.3

ADV-7251	76.0	74.1	71.3	211.7	175.5	205.3
DKC-9215	75.2	73.0	71.6	232.9	202.0	179.6
Bio 9862 (Check)	75.6	84.3	71.6	223.8	175.9	175.6
CD at 5%	NS	6.3	NS	5.2	6.1	8.3
CV (%)	3.0	9.5	3.5	2.7	3.8	5.2

Cont...

A-16

Planting density	Nutrient levels	Genotypes	Days to 50% tasseling			Days to 50% silking		
			Banswara	Godhara	Udaipur	Banswara	Godhara	Udaipur
Normal	100% RDF	ADV-7251	55.7	54.0	50.0	59.9	58.3	53.0
		DKC-9215	56.0	53.7	52.0	57.6	58.0	55.0
		Bio 9862 (C)	54.0	54.7	52.0	62.0	58.0	54.0
	150% RDF	ADV-7251	56.0	53.3	49.0	59.3	58.3	52.0
		DKC-9215	56.0	53.3	51.0	56.4	58.7	53.0
		Bio 9862 (C)	54.0	53.7	51.0	57.7	59.0	53.7
High	100% RDF	ADV-7251	57.0	52.7	50.0	61.8	58.0	53.0
		DKC-9215	57.0	53.0	52.0	59.2	58.7	55.0
		Bio 9862 (C)	54.0	54.3	52.0	61.6	58.7	54.0
	150% RDF	ADV-7251	57.0	53.0	49.0	60.2	58.7	52.0
		DKC-9215	57.0	53.7	51.0	58.7	58.7	53.0
		Bio 9862 (C)	54.0	53.0	51.0	60.3	58.3	53.0

Mean of location	55.6	53.5	50.8	59.5	58.4	53.4
------------------	------	------	------	------	------	------

Normal	55.3	53.8	50.8	58.8	58.4	53.4
High	56.0	53.3	50.8	60.3	58.5	53.3
CD at 5%	0.2	0.4	NS	0.6	NS	NS
CV (%)	0.3	0.5	4.0	0.7	0.6	4.3

100% RDF	55.6	53.7	51.3	60.3	58.3	54.0
150% RDF	55.7	53.3	50.3	58.8	58.6	52.8
CD at 5%	NS	NS	1.0	0.7	NS	NS
CV (%)	0.8	1.4	2.1	1.2	0.8	2.6

ADV-7251	56.4	53.3	49.5	60.3	58.3	52.5
DKC-9215	56.5	53.4	51.5	58.0	58.5	54.0
Bio 9862 (Check)	54.0	53.9	51.5	60.4	58.5	53.7
CD at 5%	0.3	NS	1.2	0.4	NS	1.0
CV (%)	0.6	1.5	2.7	0.8	1.3	2.2

Cont...

A-17

Planting density	Nutrient levels	Genotypes	100-seed weight (g)		Net returns (Rs/ha)			B:C ratio		
			Godhara	Udaipur	Banswara	Godhara	Udaipur	Banswara	Godhara	Udaipur
Normal	100% RDF	ADV-7251	30.7	24.9	91687	230397	60048	2.37	8.87	2.47
		DKC-9215	31.3	24.7	107651	231647	45700	2.78	8.91	1.88
		Bio 9862 (C)	29.3	24.5	91242	200730	52134	2.36	7.86	2.14
	150% RDF	ADV-7251	30.3	25.3	109907	237417	60906	2.84	8.72	2.35
		DKC-9215	29.3	21.7	118612	254000	45655	3.07	9.26	1.76
		Bio 9862 (C)	31.0	24.6	102151	214667	51822	2.64	7.98	2.00
High	100% RDF	ADV-7251	29.0	24.8	115565	189863	73380	2.80	7.37	3.01
		DKC-9215	29.0	24.5	119672	217196	56803	2.90	8.29	2.33
		Bio 9862 (C)	29.0	24.5	102446	189613	64930	2.48	7.36	2.66
	150% RDF	ADV-7251	29.3	25.2	121000	186549	73570	2.93	6.96	2.83
		DKC-9215	30.3	25.0	131091	198799	57084	3.18	7.35	2.19
		Bio 9862 (C)	30.0	23.3	105631	173216	62994	2.56	6.54	2.42

Mean of location	29.9	24.4	109721.2	210341.1	58752.1	2.74	7.96	2.34
------------------	------	------	----------	----------	---------	------	------	------

Normal	30.3	24.3	103542	228143	52711	2.68	8.60	2.10
High	29.4	24.6	115901	192539	64793	2.81	7.31	2.57
CD at 5%	NS	NS	NS	30453.4	7787.3	NS	1.02	0.3
CV (%)	4.6	10.2	18.6	10.1	9.2	18.2	9.0	9.5

100% RDF	29.7	24.7	104710	209907	58832	2.62	8.11	2.41
150% RDF	30.1	24.2	114732	210775	58672	2.87	7.80	2.26
CD at 5%	NS	NS	NS	NS	NS	NS	NS	NS
CV (%)	6.2	9.0	14.0	4.7	8.0	14.5	4.2	7.8

ADV-7251	29.8	25.0	109540	211056	66976	2.74	7.98	2.66
DKC-9215	30.0	24.0	119256	225411	51310	2.98	8.45	2.04
Bio 9862 (Check)	29.8	24.2	100367	194556	57970	2.51	7.43	2.31
CD at 5%	NS	NS	NS	19249.0	3721.3	NS	0.65	0.1
CV (%)	3.3	8.4	19.5	10.6	7.3	19.5	9.4	7.3

A-18

Table 4: Performance of pre release genotypes of medium maturity under varying planting density and nutrient levels in Northern Hill Zone (NHZ).

Planting density	Nutrient levels	Genotypes	Grain yield (kg/ha)		NHZ (mean)	Stover yield (kg/ha)		Plants ('000/ha)	
			Bajaura	Imphal		Bajaura	Imphal	Bajaura	Imphal
Normal	100% RDF	DKC 8211 (IU8229)	9369	6439	7904	13403	16110	78.0	58.7
		Bio 9544 (Check)	7776	7339	7557	12511	17545	76.0	60.3
	150% RDF	DKC 8211 (IU8229)	11136	6139	8638	15516	16098	77.7	58.3
		Bio 9544 (Check)	10046	6976	8511	15116	17387	75.3	61.1
High	100% RDF	DKC 8211 (IU8229)	10790	6051	8421	15180	15720	94.7	63.1
		Bio 9544 (Check)	9583	6784	8184	15430	16869	94.7	65.3
	150% RDF	DKC 8211 (IU8229)	11612	5780	8696	16184	15303	95.3	63.4
		Bio 9544 (Check)	10730	6479	8605	16126	16488	94.7	65.5

Mean of location	10130.3	6498.4	8314.3	14933.2	16440.0	85.8	62.0
------------------	---------	--------	---------------	---------	---------	------	------

Normal	9582	6723	8152	14137	16785	76.8	59.6
High	10679	6273	8476	15730	16095	94.8	64.3
CD at 5%	NS	NS	NS	908.1	NS	3.4	0.7
CV (%)	9.2	10.0	9.6	3.5	5.0	2.3	0.6

100% RDF	9379	6653	8016	14131	16561	85.8	61.9
150% RDF	10881	6343	8612	15736	16319	85.8	62.1
CD at 5%	839.2	NS	839.2	1567.5	NS	NS	NS
CV (%)	7.3	9.4	8.3	9.3	4.6	1.0	2.5

DKC 8211 (IU8229)	10727	6102	8415	15071	15808	86.4	60.9
Bio 9544 (Check)	9534	6895	8214	14796	17072	85.2	63.1
CD at 5%	932.8	395.1	664.0	NS	NS	NS	NS
CV (%)	9.8	6.5	8.1	9.5	8.7	2.0	5.6

Cont...

A-19

Planting density	Nutrient levels	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Bajaura	Imphal	Bajaura	Imphal	Bajaura	Imphal
Normal	100%	DKC 8211 (IU8229)	79.9	59.2	240.9	220.3	57.7	52.0
	RDF	Bio 9544 (Check)	77.0	62.0	209.6	212.2	61.0	53.3
	150%	DKC 8211 (IU8229)	80.9	59.6	240.1	221.5	57.3	52.3
	RDF	Bio 9544 (Check)	77.8	61.7	225.5	216.9	61.0	52.3
High	100%	DKC 8211 (IU8229)	96.0	62.5	250.2	227.0	57.7	53.3
	RDF	Bio 9544 (Check)	95.1	64.1	229.6	218.9	62.0	53.7
	150%	DKC 8211 (IU8229)	96.7	62.2	247.2	232.2	57.7	54.3
	RDF	Bio 9544 (Check)	95.6	63.1	228.1	228.7	61.0	53.7

Mean of location	87.4	61.8	233.9	222.2	59.4	53.1
------------------	------	------	-------	-------	------	------

Normal	78.9	60.6	229.0	217.8	59.3	52.5
High	95.8	63.0	238.8	226.7	59.6	53.8
CD at 5%	NS	0.5	NS	NS	NS	0.6
CV (%)	3.0	0.5	8.8	8.2	0.7	0.7

100% RDF	87.0	61.9	232.6	219.6	59.6	53.1
150% RDF	87.8	61.6	235.2	224.8	59.3	53.2
CD at 5%	4.6	NS	NS	NS	NS	NS
CV (%)	1.1	2.6	3.8	5.4	1.4	1.7

DKC 8211 (IU8229)	88.4	60.9	244.6	225.3	57.6	53.0
Bio 9544 (Check)	86.4	62.7	223.2	219.2	61.3	53.3
CD at 5%	NS	NS	4.9	NS	0.6	NS
CV (%)	2.5	5.0	2.2	3.3	1.1	1.8

Cont...

A-20

Planting density	Nutrient levels	Genotypes	Days to 50% silking		100-seed weight (g)		Net returns (Rs./ha)	
			Bajaura	Imphal	Bajaura	Imphal	Bajaura	Imphal
Normal	100% RDF	DKC 8211 (IU8229)	59.7	55.0	30.7	35.0	117682	87484
		Bio 9544 (Check)	63.0	55.7	29.3	34.5	84473	105198
	150% RDF	DKC 8211 (IU8229)	59.3	55.0	32.7	35.7	154086	78801
		Bio 9544 (Check)	63.0	54.3	30.0	35.6	131682	95274
High	100% RDF	DKC 8211 (IU8229)	59.7	55.3	30.7	34.0	148760	78955
		Bio 9544 (Check)	64.0	56.7	28.0	34.2	124992	93386
	150% RDF	DKC 8211 (IU8229)	59.7	57.0	32.0	33.6	164213	70611
		Bio 9544 (Check)	63.0	56.7	29.3	34.2	146481	84421

Mean of location	61.4	55.7	30.3	34.6	134046.2	86766.3
------------------	------	------	------	------	----------	---------

Normal	61.3	55.0	30.7	35.2	121981	91689
High	61.6	56.4	30.0	34.0	146111	81843
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	0.7	1.6	3.6	4.1	13.7	13.9

100% RDF	61.6	55.7	29.7	34.4	118977	91256
150% RDF	61.3	55.8	31.0	34.8	149116	82277
CD at 5%	NS	NS	NS	NS	18754.3	NS
CV (%)	1.3	1.8	7.6	3.5	12.3	13.1

DKC 8211 (IU8229)	59.6	55.6	31.5	34.6	146185	78963
Bio 9544 (Check)	63.3	55.8	29.2	34.6	121907	94570
CD at 5%	0.6	NS	1.0	NS	18831.8	7629.2
CV (%)	1.1	1.7	3.6	4.6	14.9	9.3

Cont...

A-21

Planting density	Nutrient levels	Genotypes	B:C Ratio		Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
			Bajaura	Imphal	Imphal	Imphal	Imphal	Imphal
Normal	100% RDF	DKC 8211 (IU8229)	2.31	3.07	17.7	15.3	13.4	38.5
		Bio 9544 (Check)	1.94	3.49	20.5	16.2	14.9	42.0
	150% RDF	DKC 8211 (IU8229)	2.68	2.74	18.9	15.4	13.3	35.5
		Bio 9544 (Check)	2.43	3.10	20.3	15.7	14.0	40.3
High	100% RDF	DKC 8211 (IU8229)	2.66	2.82	17.4	14.6	12.8	33.5
		Bio 9544 (Check)	2.39	3.16	19.3	15.5	14.4	38.5
	150% RDF	DKC 8211 (IU8229)	2.78	2.53	18.9	14.2	13.5	33.0
		Bio 9544 (Check)	2.59	2.82	19.9	15.1	13.9	37.2

Mean of location	2.47	2.97	19.1	15.3	13.8	37.3
------------------	------	------	------	------	------	------

Normal	2.34	3.10	19.4	15.7	13.9	39.1
High	2.60	2.83	18.9	14.9	13.6	35.6
CD at 5%	NS	NS	NS	0.3	NS	2.6
CV (%)	8.1	9.6	4.8	1.2	4.0	3.9

100% RDF	2.32	3.14	18.7	15.4	13.9	38.1
150% RDF	2.62	2.80	19.5	15.1	13.7	36.5
CD at 5%	0.2	0.3	NS	NS	NS	NS
CV (%)	7.3	8.8	5.8	3.9	5.4	4.7

DKC 8211 (IU8229)	2.61	2.79	18.2	14.9	13.2	35.1
Bio 9544 (Check)	2.34	3.14	20.0	15.6	14.3	39.5
CD at 5%	0.2	0.2	0.9	NS	0.6	3.1
CV (%)	8.9	6.3	5.2	5.4	4.4	8.9

Table 5: Performance of pre release genotypes of medium maturity under varying planting density and nutrient levels in North West Plain Zone (NWPZ).

Planting density	Nutrient levels	Genotypes	Grain yield (kg/ha)			NWPZ (mean)	Stover yield (kg/ha)		
			Delhi	Ludhiana	Pantnagar		Delhi	Ludhiana	Pantnagar
Normal	100% RDF	JKMH-4243	9175	6222	6047	7148	7350	6958	8480
		BH 417175	7140	6398	7702	7080	7840	5880	8622
		BH 417206	9030	6866	7729	7875	10585	6750	9416
		CMH 08 292 (C)	6545	6394	6928	6622	7565	7343	10934
	150% RDF	JKMH-4243	8975	6662	6345	7327	7200	8000	9142
		BH 417175	5975	6796	8027	6933	6180	7833	9255
		BH 417206	9275	7764	7994	8344	10940	7875	10189
		CMH 08 292 (C)	6365	7583	7201	7050	7950	8528	11800
High	100% RDF	JKMH-4243	9605	6565	6451	7540	8590	8176	9473
		BH 417175	7545	6588	8665	7599	9015	6519	9934
		BH 417206	6190	7009	8171	7124	7385	7759	10969
		CMH 08 292 (C)	7210	6954	7487	7217	9165	8222	12267
	150% RDF	JKMH-4243	8905	6792	6735	7477	7275	9241	10192
		BH 417175	5935	7491	8922	7449	7715	8648	10541
		BH 417206	8875	7903	8419	8399	10695	8731	11765
		CMH 08 292 (C)	7870	7787	7740	7799	9355	9532	12936
Mean of location			7788.4	6985.8	7535.3	7436.5	8425.3	7874.7	10369.7
Normal			7810	6836	7247	7297	8201	7396	9730
High			7767	7136	7824	7576	8649	8354	11010
CD at 5%			NS	NS	508.5	508.5	436.8	742.8	840.8
CV (%)			2.5	4.3	5.4	4.1	1.2	7.6	6.5
100% RDF			7805	6624	7398	7276	8437	7201	10012
150% RDF			7772	7347	7673	7597	8414	8549	10727
CD at 5%			NS	438.6	NS	438.6	NS	468.2	673.5
CV (%)			5.4	7.8	10.7	8.0	4.8	7.4	8.1
JKMH-4243			9165	6560	6395	7373	7604	8094	9322
BH 417175			6649	6818	8329	7265	7688	7220	9588
BH 417206			8343	7385	8079	7935	9901	7779	10585
CMH 08 292 (Check)			6998	7179	7339	7172	8509	8406	11984
CD at 5%			450.7	569.4	798.9	606.3	415.7	588.5	1175.1
CV (%)			5.3	9.7	12.6	9.2	4.5	8.9	13.4

Cont...

A-23

Planting density	Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)		Plant height (cm)	
			Ludhiana	Pantnagar	Ludhiana	Pantnagar	Ludhiana	Pantnagar
Normal	100% RDF	JKMH-4243	77.8	61.5	76.4	61.5	220.0	214.4
		BH 417175	78.7	65.2	78.2	65.2	214.3	201.5
		BH 417206	77.3	63.7	75.9	63.7	218.7	203.6
		CMH 08 292 (C)	78.7	63.7	77.8	63.7	224.7	213.8
	150% RDF	JKMH-4243	79.2	64.4	78.2	64.4	232.0	219.4
		BH 417175	79.2	64.4	78.2	64.4	218.7	209.8
		BH 417206	79.6	63.7	78.7	63.7	224.7	213.2
		CMH 08 292 (C)	79.6	63.7	78.7	63.7	232.0	220.5
High	100% RDF	JKMH-4243	102.3	80.5	100.9	80.5	225.3	215.1
		BH 417175	102.8	82.6	100.9	82.6	217.0	204.6
		BH 417206	106.0	81.9	104.2	81.9	223.0	206.6
		CMH 08 292 (C)	103.2	79.8	101.9	79.8	229.7	216.9
	150% RDF	JKMH-4243	102.8	81.2	101.9	81.2	237.0	221.1
		BH 417175	103.7	80.5	102.3	80.5	222.3	209.6
		BH 417206	106.5	81.9	105.6	81.9	229.7	211.5
		CMH 08 292 (C)	103.7	80.5	102.8	80.5	237.3	223.9

Mean of location	91.3	72.5	90.2	72.5	225.4	212.8
------------------	------	------	------	------	-------	-------

Normal	78.8	63.8	77.8	63.8	223.1	212.0
High	103.9	81.1	102.5	81.1	227.7	213.7

CD at 5%	1.5	5.6	0.7	5.6	NS	NS
----------	-----	-----	-----	-----	----	----

CV (%)	1.3	6.2	0.6	6.2	5.9	5.8
--------	-----	-----	-----	-----	-----	-----

100% RDF	90.9	72.4	89.5	72.4	221.6	209.6
150% RDF	91.8	72.5	90.8	72.5	229.2	216.1

CD at 5%	NS	NS	NS	NS	NS	NS
----------	----	----	----	----	----	----

CV (%)	3.4	0.9	3.8	0.9	5.5	5.9
--------	-----	-----	-----	-----	-----	-----

JKMH-4243	90.5	71.9	89.4	71.9	228.6	217.5
BH 417175	91.1	73.2	89.9	73.2	218.1	206.4
BH 417206	92.4	72.8	91.1	72.8	224.0	208.7
CMH 08 292 (Check)	91.3	71.9	90.3	71.9	230.9	218.8

CD at 5%	NS	NS	NS	NS	4.2	6.8
----------	----	----	----	----	-----	-----

CV (%)	4.7	3.7	4.9	3.7	2.2	3.8
--------	-----	-----	-----	-----	-----	-----

Cont...

A-24

Planting density	Nutrient levels	Genotypes	Days to 50% tasseling			Days to 50% silking		
			Delhi	Ludhiana	Pantnagar	Delhi	Ludhiana	Pantnagar
Normal	100% RDF	JKMH-4243	59.0	56.7	52.0	63.0	59.3	55.0
		BH 417175	57.5	57.3	53.0	62.5	60.0	56.3
		BH 417206	54.0	57.7	50.3	58.0	60.3	53.3
		CMH 08 292 (C)	57.5	59.0	53.3	61.5	61.7	56.7
	150% RDF	JKMH-4243	59.0	56.0	52.0	63.0	58.3	55.0
		BH 417175	60.0	56.7	53.3	63.5	59.0	56.3
		BH 417206	57.0	56.3	50.3	60.5	58.7	53.7
		CMH 08 292 (C)	57.5	57.7	53.3	60.5	60.0	56.3
High	100% RDF	JKMH-4243	59.0	57.7	52.3	64.0	60.0	55.7
		BH 417175	57.5	58.3	53.0	62.5	60.7	56.0
		BH 417206	53.5	58.7	50.3	58.5	61.0	53.3
		CMH 08 292 (C)	55.5	60.0	53.0	59.5	62.3	56.3
	150% RDF	JKMH-4243	59.0	56.7	52.3	63.0	59.0	55.3
		BH 417175	58.0	57.7	52.7	65.5	60.0	55.7
		BH 417206	56.5	57.3	50.3	61.0	59.7	53.7
		CMH 08 292 (C)	54.5	58.3	53.0	58.5	60.7	56.0

Mean of location	57.2	57.6	52.2	61.6	60.0	55.3
------------------	------	------	------	------	------	------

Normal	57.7	57.2	52.2	61.6	59.7	55.3
High	56.7	58.1	52.1	61.6	60.4	55.3

CD at 5%	NS	NS	NS	NS	NS	NS
----------	----	----	----	----	----	----

CV (%)	1.7	3.4	0.7	0.6	3.3	0.9
--------	-----	-----	-----	-----	-----	-----

100% RDF	56.7	58.2	52.2	61.2	60.7	55.3
150% RDF	57.7	57.1	52.2	61.9	59.4	55.3

CD at 5%	NS	NS	NS	NS	0.9	NS
----------	----	----	----	----	-----	----

CV (%)	0.9	2.4	0.9	0.5	1.8	0.7
--------	-----	-----	-----	-----	-----	-----

JKMH-4243	59.0	56.8	52.2	63.3	59.2	55.3
BH 417175	58.3	57.5	53.0	63.5	59.9	56.1
BH 417206	55.3	57.5	50.3	59.5	59.9	53.5
CMH 08 292 (Check)	56.3	58.8	53.2	60.0	61.2	56.3

CD at 5%	2.5	0.8	0.4	2.5	0.8	0.4
----------	-----	-----	-----	-----	-----	-----

CV (%)	1.2	1.6	0.9	1.3	1.5	0.9
--------	-----	-----	-----	-----	-----	-----

Cont...

A-25

Planting density	Nutrient levels	Genotypes	Barren plant ('000/ha)	100-seed weight (g)		Net returns (Rs./ha)	
			Ludhiana	Delhi	Pantnagar	Ludhiana	Pantnagar
Normal	100% RDF	JKMH-4243	1.39	29.7	28.6	76942	75082
		BH 417175	0.46	34.1	35.6	78937	107540
		BH 417206	1.39	32.5	35.7	88725	108080
		CMH 08 292 (C)	0.93	30.6	30.6	80606	92358
	150% RDF	JKMH-4243	0.93	29.1	29.0	80823	77924
		BH 417175	0.93	37.3	35.6	83134	110919
		BH 417206	0.93	34.1	35.9	101278	110282
		CMH 08 292 (C)	0.93	31.1	30.5	98685	94716
High	100% RDF	JKMH-4243	1.39	26.9	28.5	83301	81754
		BH 417175	1.85	35.6	35.3	81745	125192
		BH 417206	1.85	35.2	34.4	91112	115504
		CMH 08 292 (C)	1.39	29.5	29.7	90629	102083
	150% RDF	JKMH-4243	0.93	26.3	28.5	83228	84317
		BH 417175	1.39	34.2	35.4	95590	127239
		BH 417206	0.93	32.9	34.8	103395	117370
		CMH 08 292 (C)	0.93	29.4	30.4	102192	104048

Mean of location 1.16 31.8 32.4 88770.1 102150.5

Normal	0.98	32.3	32.7	86141	97113
High	1.33	31.3	32.1	91399	107189

CD at 5% NS NS NS NS 9976.3

CV (%) 79.4 0.9 4.1 6.3 7.9

100% RDF	1.33	31.8	32.3	84000	100949
150% RDF	0.98	31.8	32.5	93541	103352

CD at 5% NS NS NS 7987.4 NS

CV (%) 38.7 0.2 2.3 11.2 15.5

JKMH-4243	1.16	28.0	28.7	81074	79769
BH 417175	1.16	35.3	35.5	84851	117723
BH 417206	1.27	33.7	35.2	96128	112809
CMH 08 292 (Check)	1.04	30.1	30.3	93028	98301

CD at 5% NS 0.5 0.9 10764.4 15675.1

CV (%) 69.3 1.5 3.4 14.4 18.2

Cont...

A-26

Planting density	Nutrient levels	Genotypes	B:C ratio		Cob length (cm)	Grain rows/cob	Grains/row
			Ludhiana	Pantnagar	Delhi	Delhi	Delhi
Normal	100% RDF	JKMH-4243	1.61	1.72	18.8	18.7	36.6
		BH 417175	1.65	2.47	20.4	13.4	34.8
		BH 417206	1.86	2.48	20.2	14.9	34.8
		CMH 08 292 (C)	1.69	2.12	19.1	13.8	33.3
	150% RDF	JKMH-4243	1.51	1.67	18.7	16.7	36.0
		BH 417175	1.56	2.38	20.9	13.0	34.7
		BH 417206	1.90	2.37	19.8	15.1	35.3
		CMH 08 292 (C)	1.85	2.03	19.8	14.6	34.7
High	100% RDF	JKMH-4243	1.69	1.82	18.8	17.6	36.8
		BH 417175	1.66	2.79	19.7	13.8	35.2
		BH 417206	1.85	2.58	21.1	15.8	35.3
		CMH 08 292 (C)	1.84	2.28	18.0	13.6	28.1
	150% RDF	JKMH-4243	1.52	1.76	19.4	16.6	34.6
		BH 417175	1.74	2.66	20.3	14.6	34.0
		BH 417206	1.88	2.45	20.2	15.1	32.6
		CMH 08 292 (C)	1.86	2.18	18.5	14.3	34.2

Mean of location 1.73 2.24 19.6 15.1 34.4

Normal	1.70	2.16	19.7	15.0	35.0
High	1.76	2.32	19.5	15.2	33.9

CD at 5% NS NS 1.2 NS 0.3

CV (%) 6.2 7.5 1.4 1.9 0.2

100% RDF	1.73	2.28	19.5	15.2	34.4
150% RDF	1.73	2.19	19.7	15.0	34.5

CD at 5% NS NS NS NS NS

CV (%) 11.3 15.4 0.6 1.5 0.4

JKMH-4243	1.58	1.75	18.9	17.4	36.0
BH 417175	1.65	2.58	20.3	13.7	34.7
BH 417206	1.87	2.47	20.3	15.2	34.5
CMH 08 292 (Check)	1.81	2.15	18.8	14.1	32.6

CD at 5% 0.2 0.3 0.2 0.3 0.8

CV (%) 14.3 18.3 1.1 1.5 2.1

Table 6: Performance of pre release genotypes of medium maturity under varying nutrient levels in North East Plain Zone (NEPZ).

Nutrient levels	Genotypes	Grain yield (kg/ha)			NEPZ (mean)	Stover yield (kg/ha)			Cob yield (kg/ha)
		Bahraich	Dholi	Ranchi		Bahraich	Dholi	Ranchi	
100% RDF	HM 20105	4325	6356	5451	5377	5233	12607	8709	7564
	BH 417206	4520	6028	5875	5474	5200	11877	8576	7139
	IMHSB 20K-10	4667	8920	4646	6078	5293	17180	8184	11069
	IMHSB 20K-11	4533	7125	4525	5394	5400	14487	8196	8971
	CMH 08-292 (C)	4427	5898	4343	4889	5300	11309	6497	7074
150% RDF	HM 20105	4547	6511	6348	5802	5000	12585	8228	7692
	BH 417206	4753	6030	5745	5509	4837	11989	9252	7264
	IMHSB 20K-10	4884	8878	5780	6514	5307	17311	10033	10981
	IMHSB 20K-11	4450	7377	5147	5658	5267	14300	8324	9110
	CMH 08-292 (C)	4520	5978	4715	5071	4817	11853	8128	7118

Location mean	4562.5	6910.0	5257.6	5576.7	5165.3	13549.8	8412.8	8398.2
C.D.(5%) AiBj-AiBk	340.2	1770.5	584.3	898.4	343.6	2920.9	1538.3	2171.3
C.D.(5%) AiBk-AjBk	456.6	1771.0	1535.5	1254.4	380.8	2632.8	2499.3	2101.9
F(5%)	NS	NS	S	NS	NS	NS	NS	NS

100% RDF	4494	6865	4968	5443	5285	13492	8032	8363
150% RDF	4631	6955	5547	5711	5045	13608	8793	8433

C.D. (5%) Ai-Aj	377.6	908.6	1509.5	931.9	254.7	378.0	2269.8	924.5
C.V. (%) Error A	5.3	8.4	18.3	10.6	3.1	1.8	17.2	7.0
F (5%)	NS	NS	NS	NS	NS	NS	NS	NS

HM 20105	4436	6433	5900	5590	5117	12596	8469	7628
BH 417206	4637	6029	5810	5492	5018	11933	8914	7202
IMHSB 20K-10	4775	8899	5213	6296	5300	17246	9109	11025
IMHSB 20K-11	4492	7251	4836	5526	5333	14394	8260	9041
CMH 08-292 (C)	4473	5938	4529	4980	5058	11581	7313	7096

C.D. (5%) Bi-Bj	240.6	1251.9	413.2	635.2	243.0	2065.4	1087.7	1535.4
C.V. (%) ErrorB	4.3	14.8	6.4	8.5	3.8	12.5	10.6	14.9
F (5%)	S	S	S	S	S	S	S	S

Cont...

A-28

Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)			Plant height (cm)	
		Bahraich	Dholi	Ranchi	Bahraich	Dholi	Ranchi	Dholi	Ranchi
100% RDF	HM 20105	64.7	63.0	62.7	64.2	64.0	60.0	197.7	184.3
	BH 417206	64.1	64.7	62.3	64.2	65.0	60.4	187.3	184.5
	IMHSB 20K-10	64.2	69.0	60.9	63.9	70.0	62.7	206.0	204.7
	IMHSB 20K-11	64.6	67.0	61.4	64.3	68.0	60.9	199.0	187.1
	CMH 08-292 (C)	64.1	65.0	61.8	63.9	65.0	60.0	188.7	182.3
150% RDF	HM 20105	64.7	64.3	63.6	64.5	65.0	63.6	205.0	187.9
	BH 417206	64.4	65.0	62.3	64.4	65.0	64.1	206.0	200.8
	IMHSB 20K-10	64.4	69.7	62.3	64.3	70.0	61.4	208.0	208.0
	IMHSB 20K-11	64.6	69.0	61.8	64.3	69.0	63.2	197.7	197.5
	CMH 08-292 (C)	64.7	65.0	63.6	64.4	65.0	61.8	225.7	205.9

Location mean	64.4	66.2	62.3	64.2	66.6	61.8	202.1	194.3
C.D.(5%) AiBj-AiBk	0.5	6.9	4.5	0.4	7.5	9.5	39.5	21.8
C.D.(5%) AiBk-AjBk	0.6	7.2	7.6	0.4	8.2	22.8	65.4	32.6
F(5%)	NS	NS	NS	NS	NS	NS	NS	NS

100% RDF	64.4	65.7	61.8	64.1	66.4	60.8	195.7	188.6
150% RDF	64.5	66.6	62.7	64.4	66.8	62.8	208.5	200.0

C.D. (5%) Ai-Aj	0.5	4.2	7.0	0.2	5.3	22.2	59.7	28.7
C.V. (%) Error A	0.5	4.0	7.1	0.2	5.1	22.9	18.8	9.4
F (5%)	NS	NS	NS	S	NS	NS	NS	NS

HM 20105	64.7	63.7	63.2	64.4	64.5	61.8	201.3	186.1
BH 417206	64.3	64.8	62.3	64.3	65.0	62.3	196.7	192.6
IMHSB 20K-10	64.3	69.3	61.6	64.1	70.0	62.0	207.0	206.4
IMHSB 20K-11	64.6	68.0	61.6	64.3	68.5	62.0	198.3	192.3
CMH 08-292 (C)	64.4	65.0	62.7	64.1	65.0	60.9	207.2	194.1

C.D. (5%) Bi-Bj	0.3	4.9	3.2	0.3	5.3	6.7	28.0	15.4
C.V. (%) ErrorB	0.4	6.0	4.2	0.3	6.5	8.9	11.3	6.5
F (5%)	NS	NS	NS	NS	NS	NS	NS	NS

Cont...

A-29

Nutrient levels	Genotypes	Ear height (cm)	Days to 50% tasseling			Days to 50% silking			Days to maturity
		Dholi	Bahraich	Dholi	Ranchi	Bahraich	Dholi	Ranchi	Dholi
100% RDF	HM 20105	90.0	64.3	62.7	55.0	67.7	65.0	58.0	113.0
	BH 417206	80.0	65.3	62.7	52.0	68.7	65.7	57.0	114.0
	IMHSB 20K-10	102.0	64.0	62.0	54.7	66.0	64.3	58.0	115.3
	IMHSB 20K-11	91.7	62.7	62.0	54.7	67.7	64.3	58.0	114.7
	CMH 08-292 (C)	93.3	64.0	62.3	53.3	67.7	64.7	58.3	114.3
150% RDF	HM 20105	102.3	65.3	64.3	53.3	68.3	66.0	57.0	113.3
	BH 417206	94.7	67.3	64.3	51.7	71.0	66.3	55.0	113.0
	IMHSB 20K-10	96.0	66.0	63.0	54.7	68.3	64.0	57.0	115.0
	IMHSB 20K-11	89.0	64.7	63.3	53.0	69.0	65.0	57.0	115.3
	CMH 08-292 (C)	110.7	66.7	65.0	52.3	68.3	67.3	57.0	113.7

Location mean	95.0	65.0	63.2	53.5	68.3	65.3	57.2	114.2
C.D.(5%) AiBj-AiBk	30.5	2.0	3.3	3.7	2.8	3.3	3.4	3.2
C.D.(5%) AiBk-AjBk	47.5	2.1	4.0	3.3	3.1	5.7	4.0	3.3
F(5%)	NS	NS	NS	NS	NS	NS	NS	NS

100% RDF	91.4	64.1	62.3	53.9	67.5	64.8	57.9	114.3
150% RDF	98.5	66.0	64.0	53.0	69.0	65.7	56.6	114.1

C.D. (5%) Ai-Aj	42.5	1.3	2.9	0.3	2.0	5.3	2.9	1.8
C.V. (%) Error A	28.5	1.2	2.9	0.3	1.9	5.1	3.2	1.0
F (5%)	NS	S	NS	S	NS	NS	NS	NS

HM 20105	96.2	64.8	63.5	54.2	68.0	65.5	57.5	113.2
BH 417206	87.3	66.3	63.5	51.8	69.8	66.0	56.0	113.5
IMHSB 20K-10	99.0	65.0	62.5	54.7	67.2	64.2	57.5	115.2
IMHSB 20K-11	90.3	63.7	62.7	53.8	68.3	64.7	57.5	115.0
CMH 08-292 (C)	102.0	65.3	63.7	52.8	68.0	66.0	57.7	114.0

C.D. (5%) Bi-Bj	21.5	1.4	2.4	2.6	2.0	2.3	2.4	2.3
C.V. (%) ErrorB	18.5	1.7	3.1	4.0	2.4	2.9	3.4	1.6
F (5%)	NS	S	NS	NS	NS	NS	NS	NS

Cont...

A-30

Nutrient levels	Genotypes	100-Seed weight (g)		Net profit (Rs./ha)			B:C Ratio		
		Bahraich	Ranchi	Bahraich	Dholi	Ranchi	Bahraich	Dholi	Ranchi
100% RDF	HM 20105	24.7	243.9	102500	95713	66461	3.42	2.09	1.81
	BH 417206	25.1	295.2	110500	87766	74193	3.68	1.92	2.02
	IMHSB 20K-10	25.2	287.4	111675	161257	51325	3.72	3.52	1.40
	IMHSB 20K-11	24.7	250.1	113325	122037	49119	3.78	2.67	1.34
	CMH 08-292 (C)	24.8	298.7	108175	86557	45377	3.61	1.89	1.24
150% RDF	HM 20105	24.8	259.4	108675	95256	80210	3.56	1.96	2.04
	BH 417206	25.4	309.9	106325	87252	69306	3.49	1.80	1.76
	IMHSB 20K-10	25.7	289.2	112500	156747	70138	3.69	3.23	1.78
	IMHSB 20K-11	25.3	276.4	107500	121772	57953	3.52	2.51	1.47
	CMH 08-292 (C)	24.9	266.2	108000	84522	49956	3.54	1.74	1.27

Location mean	25.1	277.6	108917.5	109887.9	61404.0	3.60	2.33	1.61
C.D.(5%) AiBj-AiBk	0.4	26.3	8111.6	40603.8	10835.5	0.27	0.86	0.29
C.D.(5%) AiBk-AjBk	0.7	34.4	10905.7	39305.1	27625.0	0.36	0.84	0.73
F(5%)	NS	S	NS	NS	S	NS	NS	S

100% RDF	24.9	275.1	109235	110666	57295	3.64	2.42	1.56
150% RDF	25.2	280.2	108600	109110	65513	3.56	2.25	1.66

C.D. (5%) Ai-Aj	0.6	28.0	9030.4	17287.7	27100.5	0.30	0.37	0.72
C.V. (%) Error A	1.6	6.4	5.3	10.0	28.1	5.3	10.2	28.2
F (5%)	NS	NS	NS	NS	NS	NS	NS	NS

HM 20105	24.7	251.7	105588	95485	73336	3.49	2.03	1.92
BH 417206	25.2	302.5	108413	87509	71750	3.58	1.86	1.89
IMHSB 20K-10	25.5	288.3	112088	159002	60731	3.71	3.38	1.59
IMHSB 20K-11	25.0	263.2	110413	121905	53536	3.65	2.59	1.40
CMH 08-292 (C)	24.9	282.5	108088	85540	47667	3.57	1.82	1.25

C.D. (5%) Bi-Bj	0.3	18.6	5735.8	28711.2	7661.8	0.19	0.61	0.20
C.V. (%) ErrorB	0.8	5.5	4.3	21.3	10.2	4.3	21.4	10.4
F (5%)	S	S	NS	S	S	NS	S	S

Table 7: Performance of pre release genotypes of medium maturity under varying planting density and nutrient levels in Peninsular Zone (PZ).

Planting density	Nutrient levels	Genotypes	Grain yield (kg/ha)			PZ (mean)	Stover yield (kg/ha)		
			Hyderabad	Peddapuram	Vagarai		Hyderabad	Peddapuram	Vagarai
Normal	100% RDF	JKMH-4243	8059	6508	8422	7663	10400	8254	10991
		Bio 9544	7488	5952	8159	7200	10484	7421	9402
	150% RDF	JKMH-4243	6944	7540	8003	7496	10283	9008	11743
		Bio 9544	7695	6667	7612	7325	10570	8135	10456
High	100% RDF	JKMH-4243	5720	7103	7923	6915	8974	8929	11276
		Bio 9544	7071	6627	7602	7100	9394	7976	9597
	150% RDF	JKMH-4243	7458	7738	8713	7970	9760	9603	11975
		Bio 9544	9669	7024	8303	8332	11081	8532	10590

Mean of location 7513.1 6894.8 8092.2 **7500.1** 10118.4 8482.1 10753.6

Normal	7547	6667	8049	7421	10435	8204	10648
High	7479	7123	8135	7579	9802	8760	10859
CD at 5%	NS	NS	NS	NS	334.3	NS	NS
CV (%)	7.0	7.9	4.9	6.6	1.9	8.5	7.4

100% RDF	7045	6548	8027	7207	9854	8145	10316
150% RDF	7981	7242	8158	7794	10382	8819	11191
CD at 5%	790.6	623.3	NS	706.9	559.1	456.8	795.7
CV (%)	9.3	8.0	6.1	7.8	4.9	4.8	6.5

JKMH-4243	7045	7222	8265	7511	9854	8948	11496
Bio 9544	7981	6567	7919	7489	10382	8016	10011
CD at 5%	679.8	634.8	NS	657.3	264.9	665.8	1252.0
CV (%)	9.6	9.8	8.7	9.4	2.8	8.3	12.4

Cont...

A-32

Planting density	Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		
			Hyderabad	Peddapuram	Vagarai	Hyderabad	Peddapuram	Vagarai
Normal	100%	JKMH-4243	78.9	77.4	63.3	77.4	75.0	61.9
	RDF	Bio 9544	78.3	77.8	59.4	76.9	76.2	56.9
	150%	JKMH-4243	78.9	78.2	63.3	77.4	75.8	61.7
	RDF	Bio 9544	78.3	77.4	59.4	76.9	75.0	56.9
High	100%	JKMH-4243	95.0	94.0	80.6	93.5	91.7	79.2
	RDF	Bio 9544	94.4	92.1	75.0	92.9	90.1	73.1
	150%	JKMH-4243	95.6	95.2	79.2	94.0	92.9	74.4
	RDF	Bio 9544	95.6	94.4	72.8	94.0	92.5	68.6

Mean of location	86.9	85.8	69.1	85.4	83.6	66.6
------------------	------	------	------	------	------	------

Normal	78.6	77.7	61.4	77.1	75.5	59.4
High	95.1	93.9	76.9	93.6	91.8	73.8
CD at 5%	0.6	6.5	2.9	0.6	1.7	3.3
CV (%)	0.4	4.3	2.3	0.4	1.1	2.8

100% RDF	87.1	85.3	69.6	85.6	83.2	67.8
150% RDF	86.7	86.3	68.7	85.2	84.0	65.4
CD at 5%	NS	NS	NS	NS	NS	1.8
CV (%)	1.7	2.1	2.2	1.7	1.4	2.4

JKMH-4243	87.1	86.2	71.6	85.6	83.8	69.3
Bio 9544	86.7	85.4	66.7	85.2	83.4	63.9
CD at 5%	NS	NS	2.2	NS	NS	2.2
CV (%)	1.2	2.2	3.4	1.2	3.3	3.6

Cont...

A-33

Planting density	Nutrient levels	Genotypes	Plant height (cm)			Days to 50% tasseling		
			Hyderabad	Peddapuram	Vagarai	Hyderabad	Peddapuram	Vagarai
Normal	100% RDF	JKMH-4243	236.7	204.5	191.9	67.0	50.7	51.0
		Bio 9544	211.7	180.3	167.7	62.0	51.3	50.7
	150% RDF	JKMH-4243	238.7	212.5	195.5	63.3	50.3	51.7
		Bio 9544	221.7	187.3	168.8	66.0	51.0	51.0
High	100% RDF	JKMH-4243	230.0	208.4	197.2	64.3	50.0	51.3
		Bio 9544	217.3	183.1	170.3	65.3	51.0	50.7
	150% RDF	JKMH-4243	230.7	214.1	201.1	63.3	49.7	51.7
		Bio 9544	213.0	190.7	173.7	64.7	50.7	51.3

Mean of location	225.0	197.6	183.3	64.5	50.6	51.2
------------------	-------	-------	-------	------	------	------

Normal	227.2	196.2	181.0	64.6	50.8	51.1
High	222.8	199.1	185.6	64.4	50.3	51.3

CD at 5%	NS	NS	NS	NS	NS	NS
----------	----	----	----	----	----	----

CV (%)	4.2	4.1	11.4	0.8	0.7	0.4
--------	-----	-----	------	-----	-----	-----

100% RDF	234.0	194.1	181.8	64.5	50.8	50.9
150% RDF	215.9	201.2	184.8	64.5	50.4	51.4

CD at 5%	NS	NS	NS	NS	NS	NS
----------	----	----	----	----	----	----

CV (%)	10.3	6.9	4.3	6.6	1.5	1.0
--------	------	-----	-----	-----	-----	-----

JKMH-4243	234.0	209.9	196.5	64.5	50.2	51.4
Bio 9544	215.9	185.4	170.1	64.5	51.0	50.9

CD at 5%	14.0	7.1	14.3	NS	NS	NS
----------	------	-----	------	----	----	----

CV (%)	6.6	3.8	8.3	5.7	1.1	1.4
--------	-----	-----	-----	-----	-----	-----

Cont...

A-34

Planting density	Nutrient levels	Genotypes	Days to 50% silking			100-seeds weight (g)		
			Hyderabad	Peddapuram	Vagarai	Hyderabad	Peddapuram	Vagarai
Normal	100% RDF	JKMH-4243	69.0	53.0	53.0	33.3	33.9	35.0
		Bio 9544	64.3	53.7	52.7	33.0	30.4	33.9
	150% RDF	JKMH-4243	65.3	52.3	53.3	32.7	35.4	33.7
		Bio 9544	68.0	53.3	53.3	32.3	31.9	32.9
High	100% RDF	JKMH-4243	66.0	52.7	53.0	31.0	32.3	33.0
		Bio 9544	67.7	53.0	53.0	31.7	29.8	32.4
	150% RDF	JKMH-4243	65.7	52.3	53.7	32.0	33.8	33.3
		Bio 9544	66.7	53.3	53.7	33.7	31.1	32.6

Mean of location	66.6	53.0	53.2	32.5	32.3	33.4
------------------	------	------	------	------	------	------

Normal	66.7	53.1	53.1	32.8	32.9	33.9
High	66.5	52.8	53.3	32.1	31.8	32.9

CD at 5%	NS	NS	NS	NS	NS	NS
----------	----	----	----	----	----	----

CV (%)	0.6	0.7	0.7	2.9	4.0	6.8
--------	-----	-----	-----	-----	-----	-----

100% RDF	66.5	53.1	52.9	32.3	31.6	33.6
150% RDF	66.7	52.8	53.5	32.7	33.1	33.2

CD at 5%	NS	NS	0.5	NS	1.3	NS
----------	----	----	-----	----	-----	----

CV (%)	5.2	1.5	0.8	9.5	3.4	2.9
--------	-----	-----	-----	-----	-----	-----

JKMH-4243	66.5	52.6	53.3	32.3	33.8	33.8
Bio 9544	66.7	53.3	53.2	32.7	30.8	33.0

CD at 5%	NS	NS	NS	NS	1.8	NS
----------	----	----	----	----	-----	----

CV (%)	4.9	1.3	1.2	7.2	6.0	3.1
--------	-----	-----	-----	-----	-----	-----

Cont...

A-35

Planting density	Nutrient levels	Genotypes	Net returns (Rs/ha)			B:C Ratio		
			Hyderabad	Peddapuram	Vagarai	Hyderabad	Peddapuram	Vagarai
Normal	100% RDF	JKMH-4243	80738	65349	102313	2.05	2.05	2.27
		Bio 9544	69554	54449	96546	1.90	1.87	2.20
	150% RDF	JKMH-4243	55571	81465	93101	1.69	2.23	2.16
		Bio 9544	70288	64336	84502	1.87	1.97	2.05
High	100% RDF	JKMH-4243	33765	74628	91343	1.43	2.15	2.13
		Bio 9544	60253	65285	84292	1.77	2.01	2.05
	150% RDF	JKMH-4243	64517	82958	108726	1.79	2.20	2.35
		Bio 9544	107843	68943	99708	2.32	2.00	2.24

Mean of location	67816.3	69676.6	95066.3	1.85	2.06	2.18
------------------	---------	---------	---------	------	------	------

Normal	69038	66400	94115	1.88	2.03	2.17
High	66594	72953	96017	1.83	2.09	2.19

CD at 5%	NS	NS	NS	NS	NS	NS
----------	----	----	----	----	----	----

CV (%)	15.3	15.3	9.2	6.9	8.2	4.9
--------	------	------	-----	-----	-----	-----

100% RDF	58648	64928	93623	1.74	2.02	2.16
150% RDF	76985	74425	96509	1.97	2.10	2.20

CD at 5%	NS	NS	NS	NS	NS	NS
----------	----	----	----	----	----	----

CV (%)	20.2	15.5	11.4	9.3	8.2	6.1
--------	------	------	------	-----	-----	-----

JKMH-4243	58648	76100	98871	1.74	2.16	2.23
Bio 9544	76985	63253	91262	1.97	1.96	2.13

CD at 5%	13323.2	12455.0	NS	0.2	0.2	NS
----------	---------	---------	----	-----	-----	----

CV (%)	20.9	19.0	16.4	9.7	9.9	8.7
--------	------	------	------	-----	-----	-----

Cont...

A-36

Planting density	Nutrient levels	Genotypes	Cob length (cm)			Cob girth (cm)		
			Hyderabad	Peddapuram	Vagarai	Hyderabad	Peddapuram	Vagarai
Normal	100% RDF	JKMH-4243	18.9	15.2	17.6	16.0	14.8	15.2
		Bio 9544	18.3	14.7	19.0	15.7	14.0	14.6
	150% RDF	JKMH-4243	18.1	16.7	17.4	15.5	15.5	15.0
		Bio 9544	18.7	15.4	18.6	15.7	14.4	14.4
High	100% RDF	JKMH-4243	17.4	15.0	16.9	15.3	14.0	14.4
		Bio 9544	17.8	14.5	18.0	15.4	13.1	14.0
	150% RDF	JKMH-4243	17.8	15.9	17.5	14.7	14.8	14.6
		Bio 9544	19.7	15.2	18.6	16.1	13.9	14.3

Mean of location	18.3	15.3	18.0	15.5	14.3	14.6
------------------	------	------	------	------	------	------

Normal	18.5	15.5	18.2	15.7	14.7	14.8
High	18.2	15.2	17.8	15.4	14.0	14.4

CD at 5%	0.3	NS	NS	NS	NS	NS
----------	-----	----	----	----	----	----

CV (%)	0.8	1.5	2.0	3.8	5.7	5.4
--------	-----	-----	-----	-----	-----	-----

100% RDF	18.0	14.9	17.9	15.4	14.0	14.6
150% RDF	18.6	15.8	18.0	15.7	14.7	14.6

CD at 5%	NS	0.5	NS	NS	0.6	NS
----------	----	-----	----	----	-----	----

CV (%)	6.1	2.9	2.5	5.9	3.7	3.3
--------	-----	-----	-----	-----	-----	-----

JKMH-4243	18.0	15.7	17.4	15.4	14.8	14.8
Bio 9544	18.6	14.9	18.6	15.7	13.9	14.3

CD at 5%	NS	0.4	0.6	NS	0.4	0.4
----------	----	-----	-----	----	-----	-----

CV (%)	7.3	3.1	3.6	5.2	2.9	2.7
--------	-----	-----	-----	-----	-----	-----

Cont...

A-37

Planting density	Nutrient levels	Genotypes	Grain rows/cob			Grains/row		
			Hyderabad	Peddapuram	Vagarai	Hyderabad	Peddapuram	Vagarai
Normal	100% RDF	JKMH-4243	17.4	16.8	17.1	39.4	33.1	34.8
		Bio 9544	16.0	14.1	15.1	38.5	30.3	39.7
	150% RDF	JKMH-4243	15.5	17.1	16.3	37.5	35.1	34.1
		Bio 9544	15.6	14.3	14.8	39.0	32.0	38.7
High	100% RDF	JKMH-4243	14.8	16.5	15.9	36.5	32.1	33.3
		Bio 9544	15.9	13.9	14.3	37.9	29.1	37.4
	150% RDF	JKMH-4243	15.7	16.7	16.1	37.3	34.8	33.4
		Bio 9544	17.7	14.0	14.4	40.7	32.1	37.7

Mean of location	16.1	15.4	15.5	38.4	32.3	36.1
------------------	------	------	------	------	------	------

Normal	16.1	15.6	15.8	38.6	32.6	36.8
High	16.0	15.3	15.2	38.1	32.0	35.5

CD at 5%	NS	NS	0.4	NS	NS	NS
----------	----	----	-----	----	----	----

CV (%)	6.1	2.1	1.4	2.9	5.4	6.7
--------	-----	-----	-----	-----	-----	-----

100% RDF	15.9	15.3	15.6	37.7	31.2	36.3
150% RDF	16.3	15.5	15.4	39.0	33.5	36.0

CD at 5%	NS	NS	NS	NS	1.1	NS
----------	----	----	----	----	-----	----

CV (%)	2.5	5.8	4.1	5.4	3.1	7.0
--------	-----	-----	-----	-----	-----	-----

JKMH-4243	15.9	16.8	16.3	37.7	33.8	33.9
Bio 9544	16.3	14.1	14.6	39.0	30.9	38.4

CD at 5%	NS	0.7	0.3	NS	1.3	3.0
----------	----	-----	-----	----	-----	-----

CV (%)	7.1	4.5	2.4	4.9	4.3	8.8
--------	-----	-----	-----	-----	-----	-----

Table 8: Performance of pre release genotypes of medium maturity under varying planting density and nutrient levels in Central Western Zone (CWZ).

Planting density	Nutrient levels	Genotypes	Grain yield (kg/ha)		CWZ (mean)	Stover yield (kg/ha)	
			Ambikapur	Banswara		Ambikapur	Banswara
Normal	100% RDF	JKMH 4243	6367	7120	6743	14644	8749
		Bio 9544 (C)	5823	6608	6215	13392	8294
	150% RDF	JKMH 4243	6993	7368	7181	15752	8892
		Bio 9544 (C)	6520	7067	6793	14329	9300
High	100% RDF	JKMH 4243	6366	8188	7277	15311	9595
		Bio 9544 (C)	6111	7242	6677	14055	8527
	150% RDF	JKMH 4243	7407	8347	7877	16036	9663
		Bio 9544 (C)	7074	7344	7209	15271	8988

Mean of location	6582.5	7410.3	6996.4	14848.7	9001.1
------------------	--------	--------	---------------	---------	--------

Normal	6426	7041	6733	14529	8809
High	6739	7780	7260	15168	9193
CD at 5%	NS	326.1	326.1	NS	NS
CV (%)	5.0	2.5	3.8	12.0	13.2

100% RDF	6167	7289	6728	14351	8791
150% RDF	6999	7531	7265	15347	9211
CD at 5%	478.7	NS	478.7	NS	NS
CV (%)	6.4	9.2	7.8	9.5	16.9

JKMH 4243	6783	7755	7269	15436	9225
Bio 9544 (C)	6382	7065	6724	14262	8777
CD at 5%	NS	288.4	288.4	1137.2	NS
CV (%)	7.4	4.1	5.7	8.1	7.1

Cont...

A-39

Planting density	Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)	Plant height (cm)	
			Ambikapur	Banswara	Banswara	Ambikapur	Banswara
Normal	100% RDF	JKMH 4243	63.6	65.0	66.2	255.0	233.3
		Bio 9544 (C)	64.0	64.6	66.5	193.3	210.0
	150% RDF	JKMH 4243	62.7	65.6	68.6	257.0	238.3
		Bio 9544 (C)	62.7	64.6	66.9	195.7	218.3
High	100% RDF	JKMH 4243	79.9	82.7	86.8	258.7	236.7
		Bio 9544 (C)	80.2	82.7	84.7	197.7	213.3
	150% RDF	JKMH 4243	80.5	81.8	89.6	261.9	240.0
		Bio 9544 (C)	81.6	81.8	84.0	200.3	223.3

Mean of location	71.9	73.6	76.7	227.4	226.7
------------------	------	------	------	-------	-------

Normal	63.2	65.0	67.1	225.3	225.0
High	80.5	82.2	86.3	229.6	228.3
CD at 5%	2.5	0.9	6.7	NS	NS
CV (%)	2.0	0.7	5.0	3.1	3.2

100% RDF	71.9	73.7	76.0	226.2	223.3
150% RDF	71.8	73.5	77.3	228.7	230.0
CD at 5%	NS	NS	NS	NS	NS
CV (%)	1.3	1.0	5.0	6.6	4.0

JKMH 4243	71.7	73.8	77.8	258.1	237.1
Bio 9544 (C)	72.1	73.4	75.5	196.8	216.3
CD at 5%	NS	NS	1.8	6.8	7.1
CV (%)	3.2	1.0	2.5	3.2	3.3

Cont...

A-40

Planting density	Nutrient levels	Genotypes	Days to 50% tasseling		Days to 50% silking		100-seeds weight (g)
			Ambikapur	Banswara	Ambikapur	Banswara	Ambikapur
Normal	100% RDF	JKMH 4243	52.2	53.0	52.3	56.0	32.3
		Bio 9544 (C)	52.6	51.0	51.7	54.0	32.2
	150% RDF	JKMH 4243	51.7	53.0	53.7	56.0	32.5
		Bio 9544 (C)	52.6	51.0	53.0	54.0	33.8
High	100% RDF	JKMH 4243	53.1	53.0	51.9	56.0	31.3
		Bio 9544 (C)	52.5	51.0	52.9	54.0	32.8
	150% RDF	JKMH 4243	52.5	53.0	53.4	56.0	32.7
		Bio 9544 (C)	52.2	51.0	52.1	54.0	32.9

Mean of location	52.4	52.0	52.6	55.0	32.6
------------------	------	------	------	------	------

Normal	52.3	52.0	52.7	55.0	32.7
High	52.6	52.0	52.6	55.0	32.4
CD at 5%	NS	NS	NS	NS	NS
CV (%)	1.3	2.0	1.6	1.3	1.0

100% RDF	52.6	52.0	52.2	55.0	32.2
150% RDF	52.2	52.0	53.1	55.0	33.0
CD at 5%	NS	NS	NS	NS	NS
CV (%)	2.6	1.0	3.4	1.3	3.4

JKMH 4243	52.4	53.0	52.8	56.0	32.2
Bio 9544 (C)	52.5	51.0	52.5	54.0	33.0
CD at 5%	NS	0.9	NS	1.1	0.7
CV (%)	2.9	1.8	2.9	2.1	2.4

Cont...

A-41

Planting density	Nutrient levels	Genotypes	Net returns (Rs./ha)		B:C ratio	
			Ambikapur	Banswara	Ambikapur	Banswara
Normal	100% RDF	JKMH 4243	73720	101002	1.80	2.61
		Bio 9544 (C)	63922	90961	1.56	2.35
	150% RDF	JKMH 4243	84994	105866	2.08	2.74
		Bio 9544 (C)	76468	99960	1.87	2.58
High	100% RDF	JKMH 4243	67760	119414	1.45	2.90
		Bio 9544 (C)	63176	100857	1.35	2.45
	150% RDF	JKMH 4243	86504	122527	1.85	2.97
		Bio 9544 (C)	80510	102860	1.72	2.49

Mean of location	74631.3	105430.9	1.71	2.64
------------------	---------	----------	------	------

Normal	74776	99447	1.83	2.57
High	74487	111414	1.59	2.70
CD at 5%	NS	6398.8	NS	NS
CV (%)	8.0	3.5	8.7	3.5

100% RDF	67144	103058	1.54	2.58
150% RDF	82119	107803	1.88	2.70
CD at 5%	8615.7	NS	0.2	NS
CV (%)	10.2	12.7	10.8	12.7

JKMH 4243	78244	112202	1.79	2.80
Bio 9544 (C)	71019	98659	1.63	2.47
CD at 5%	NS	5658.3	NS	0.1
CV (%)	11.7	5.7	11.8	5.6

Table 9: Performance of pre release genotypes of early maturity under varying planting density and nutrient levels in Central Western Zone (CWZ).

Planting density	Nutrient levels	Genotypes	Grain yield (kg/ha)			CWZ (mean)	Stover yield (kg/ha)		
			Banswara	Godhara	Udaipur		Banswara	Godhara	Udaipur
Norma	100% RDF	AH-8727	5717	7200	5023	5980	7009	10200	7696
		EH-2936	5391	7100	3923	5471	6771	12300	6406
		DKC 7074 (C)	6016	6400	4140	5519	7980	6367	6992
	150% RDF	AH-8727	6251	7533	5153	6313	7559	10567	8071
		EH-2936	5581	7933	4039	5851	7345	13500	6662
		DKC 7074 (C)	6444	6400	4230	5692	8444	6600	7207
High	100% RDF	AH-8727	6392	6700	5833	6308	7502	11433	8902
		EH-2936	6026	7867	4648	6180	7097	13600	7369
		DKC 7074 (C)	6436	6667	4530	5878	8211	6733	8091
	150% RDF	AH-8727	6580	7167	5926	6558	7562	12533	9195
		EH-2936	6295	7133	4723	6051	7690	13667	7658
		DKC 7074 (C)	6853	7300	4659	6271	8651	8100	8230

Mean of location 6165.3 7116.7 4735.7 **6005.9** 7651.7 10466.7 7706.6

Normal	5900	7094	4418	5804	7518	9922	7172
High	6431	7139	5053	6208	7786	11011	8241
CD at 5%	NS	NS	546.0	546.0	NS	NS	707.2
CV (%)	12.8	9.7	8.0	10.2	8.1	18.1	6.4

100% RDF	5996	6989	4683	5889	7428	10106	7576
150% RDF	6334	7244	4789	6122	7875	10828	7837
CD at 5%	NS	NS	NS	NS	NS	NS	NS
CV (%)	9.3	12.1	4.8	8.7	14.7	12.8	5.6

AH-8727	6235	7150	5484	6290	7408	11183	8466
EH-2936	5823	7508	4333	5888	7226	13267	7024
DKC 7074 (Check)	6438	6692	4390	5840	8321	6950	7630
CD at 5%	NS	NS	191.0	191.0	NS	1178.1	325.0
CV (%)	12.3	13.5	4.7	10.1	15.1	13.0	4.9

Cont...

A-43

Planting density	Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		
			Banswara	Godhara	Udaipur	Banswara	Godhara	Udaipur
Norma	100% RDF	AH-8727	62.8	76.7	60.0	65.5	71.3	63.0
		EH-2936	64.3	75.0	59.6	69.4	56.7	62.9
		DKC 7074 (C)	64.7	76.0	59.8	68.4	71.3	63.0
	150% RDF	AH-8727	64.3	70.3	61.1	68.3	70.7	64.5
		EH-2936	64.0	73.7	61.1	69.6	66.3	64.0
		DKC 7074 (C)	65.1	76.3	60.9	72.4	71.0	64.1
High	100% RDF	AH-8727	82.0	91.7	76.4	86.1	94.7	80.5
		EH-2936	81.6	95.7	76.9	82.6	74.3	80.1
		DKC 7074 (C)	82.2	99.3	75.8	86.2	78.3	79.7
	150% RDF	AH-8727	81.7	87.3	74.9	88.4	79.3	78.9
		EH-2936	81.4	97.0	76.2	83.6	76.3	79.7
		DKC 7074 (C)	81.4	99.3	77.1	84.8	89.7	81.4

Mean of location	73.0	84.9	68.3	77.1	75.0	71.8
------------------	------	------	------	------	------	------

Normal	64.2	74.7	60.4	68.9	67.9	63.6
High	81.7	95.1	76.2	85.3	82.1	80.0
CD at 5%	1.4	7.5	2.1	7.4	3.2	2.8
CV (%)	1.3	6.1	2.1	6.7	2.9	2.8

100% RDF	72.9	85.7	68.1	76.3	74.4	71.5
150% RDF	73.0	84.0	68.5	77.8	75.6	72.1
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	0.7	6.1	1.6	6.4	14.3	1.5

AH-8727	72.7	81.5	68.1	77.1	79.0	71.7
EH-2936	72.8	85.3	68.4	76.3	68.4	71.7
DKC 7074 (Check)	73.3	87.8	68.4	77.9	77.6	72.1
CD at 5%	NS	NS	NS	NS	5.4	NS
CV (%)	1.0	7.1	3.0	3.6	8.4	3.1

Cont...

A-44

Planting density	Nutrient levels	Genotypes	Plant height (cm)			Days to 50% tasseling		
			Banswara	Godhara	Udaipur	Banswara	Godhara	Udaipur
Norma	100% RDF	AH-8727	213.3	166.3	125.2	46.0	51.0	50.0
		EH-2936	223.3	190.7	190.7	48.0	51.3	52.0
		DKC 7074 (C)	205.0	157.3	190.6	45.0	51.0	52.0
	150% RDF	AH-8727	215.0	171.0	130.5	46.0	51.0	49.0
		EH-2936	225.0	205.0	195.4	48.0	51.3	51.0
		DKC 7074 (C)	210.0	151.0	195.3	45.0	50.3	51.0
High	100% RDF	AH-8727	215.0	157.3	135.4	46.0	51.7	50.0
		EH-2936	225.0	185.7	200.3	48.0	51.3	52.0
		DKC 7074 (C)	215.0	140.0	200.5	45.0	51.3	52.0
	150% RDF	AH-8727	216.7	167.7	210.3	46.0	52.0	49.0
		EH-2936	228.3	192.0	204.4	48.0	51.3	51.0
		DKC 7074 (C)	218.3	156.7	204.8	45.0	50.7	51.0

Mean of location	217.5	170.1	182.0	46.3	51.2	50.8
------------------	-------	-------	-------	------	------	------

Normal	215.3	173.6	171.3	46.3	51.0	50.8
High	219.7	166.6	192.6	46.3	51.4	50.8
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	7.4	3.7	9.7	4.4	1.4	3.5

100% RDF	216.1	166.2	173.8	46.3	51.3	51.3
150% RDF	218.9	173.9	190.1	46.3	51.1	50.3
CD at 5%	NS	NS	6.9	NS	NS	0.8
CV (%)	2.7	5.2	4.1	2.6	1.5	1.8

AH-8727	215.0	165.6	150.4	46.0	51.4	49.5
EH-2936	225.4	193.3	197.7	48.0	51.3	51.5
DKC 7074 (Check)	212.1	151.3	197.8	45.0	50.8	51.5
CD at 5%	8.8	8.6	5.7	0.9	NS	0.9
CV (%)	4.7	5.8	3.6	2.3	1.5	2.0

Cont...

A-45

Planting density	Nutrient levels	Genotypes	Days to 50% silking			100-seed weight (g)		Insect (FAW) damage (%)	Disease MLB (1-9)
			Banswara	Godhara	Udaipur	Godhara	Udaipur	Godhara	Godhara
Norma	100% RDF	AH-8727	49.0	56.0	53.3	37.7	244.2	1.67	1.67
		EH-2936	51.0	56.3	55.3	35.0	238.3	1.67	2.00
		DKC 7074 (C)	48.0	56.0	56.3	31.0	237.5	2.00	1.67
	150% RDF	AH-8727	49.0	56.0	52.3	36.7	249.0	2.33	2.00
		EH-2936	51.0	56.3	54.3	35.7	245.2	2.33	2.00
		DKC 7074 (C)	48.0	55.3	54.7	29.0	245.6	2.33	2.33
High	100% RDF	AH-8727	49.0	56.7	53.3	33.0	243.8	2.67	2.00
		EH-2936	51.0	56.3	55.3	34.3	240.7	2.00	2.67
		DKC 7074 (C)	48.0	56.3	56.3	29.3	239.4	2.33	1.67
	150% RDF	AH-8727	49.0	57.0	52.3	36.0	247.7	2.67	2.67
		EH-2936	51.0	56.3	54.3	35.7	244.3	2.67	2.00
		DKC 7074 (C)	48.0	55.7	55.7	29.0	243.3	2.33	2.33

Mean of location	49.3	56.2	54.5	33.5	243.2	2.25	2.08
------------------	------	------	------	------	-------	------	------

Normal	49.3	56.0	54.4	34.2	243.3	2.06	1.94
High	49.3	56.4	54.6	32.9	243.2	2.44	2.22
CD at 5%	NS	NS	NS	NS	NS	NS	NS
CV (%)	2.1	1.3	3.5	12.5	8.0	39.2	42.3

100% RDF	49.3	56.3	55.0	33.4	240.6	2.06	1.94
150% RDF	49.3	56.1	53.9	33.7	245.8	2.44	2.22
CD at 5%	NS	NS	1.0	NS	NS	0.2	NS
CV (%)	2.8	1.3	2.0	5.3	2.6	10.5	42.3

AH-8727	49.0	56.4	52.8	35.8	246.2	2.33	2.08
EH-2936	51.0	56.3	54.8	35.2	242.1	2.17	2.17
DKC 7074 (Check)	48.0	55.8	55.8	29.6	241.5	2.25	2.00
CD at 5%	1.4	NS	1.1	1.3	NS	NS	NS
CV (%)	3.4	1.4	2.3	4.6	3.3	31.9	33.9

Cont...

A-46

Planting density	Nutrient levels	Genotypes	Net returns (Rs/ha)			B:C ratio		
			Banswara	Godhara	Udaipur	Banswara	Godhara	Udaipur
Norma	100% RDF	AH-8727	73473	140230	58734	1.90	5.79	2.42
		EH-2936	67090	143480	40939	1.73	5.90	1.68
		DKC 7074 (C)	79338	114647	44785	2.05	4.92	1.84
	150% RDF	AH-8727	83964	146333	59431	2.17	5.76	2.29
		EH-2936	70809	161667	41307	1.83	6.26	1.59
		DKC 7074 (C)	87752	113750	44722	2.27	4.70	1.72
High	100% RDF	AH-8727	84187	132779	71980	2.04	5.46	2.95
		EH-2936	76993	161529	52682	1.87	6.42	2.16
		DKC 7074 (C)	85052	120363	51629	2.06	5.04	2.11
	150% RDF	AH-8727	87872	143383	72050	2.13	5.58	2.77
		EH-2936	82279	145549	52468	2.00	5.65	2.01
		DKC 7074 (C)	93234	134966	52070	2.26	5.31	2.00

Mean of location	81003.5	138223.0	53566.4	2.03	5.57	2.13
------------------	---------	----------	---------	------	------	------

Normal	77071	136684	48320	1.99	5.55	1.92
High	84936	139762	58813	2.06	5.58	2.33
CD at 5%	NS	NS	8872.7	NS	NS	0.4
CV (%)	19.1	12.5	11.5	18.4	10.6	11.8

100% RDF	77689	135505	53458	1.94	5.59	2.19
150% RDF	84318	140941	53675	2.11	5.54	2.06
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	13.9	13.8	7.0	14.1	11.7	7.0

AH-8727	82374	140681	65549	2.06	5.65	2.61
EH-2936	74293	153056	46849	1.86	6.06	1.86
DKC 7074 (Check)	86344	120931	48301	2.16	4.99	1.92
CD at 5%	NS	18849.4	3131.2	NS	0.6	0.1
CV (%)	18.3	15.8	6.8	18.5	13.0	6.9

Table 10: Performance of pre release genotypes of EDV maturity under varying nutrient levels in Northern Hill Zone (NHZ).

Nutrient levels	Genotypes	Grains yield (kg/ha)		NHZ (mean)	Stover yield (kg/ha)		Plants ('000/ha)	
		Almora	Imphal		Almora	Imphal	Almora	Imphal
100% RDF	FQH 186	10872	8152	9512	10243	19065	79.0	60.4
	Vivek Hybrid 53 (C)	10599	7447	9023	11198	17872	75.5	59.8
	FPVH 1	11076	7724	9400	15365	18534	81.2	59.8
	APQH 9 (C)	9220	5117	7168	12196	13753	77.7	46.7
150% RDF	FQH 186	10343	7682	9012	10677	18636	76.0	60.3
	Vivek Hybrid 53 (C)	10209	6667	8438	11372	17240	76.0	59.4
	FPVH 1	13464	7252	10358	15061	17996	79.9	58.9
	APQH 9 (C)	8352	5105	6728	11589	13222	79.9	46.3

Location mean	10516.8	6893.0	8704.9	12212.5	17039.8	78.1	56.4
C.D.(5%) AiBj-AiBk	1636.5	1248.9	1442.7	2009.6	1915.2	7.3	4.0
C.D.(5%) AiBk-AjBk	2992.8	1191.1	2092.0	2993.0	2278.3	9.7	4.7
F(5%)	S	NS	S	NS	NS	NS	NS

100% RDF	10442	7110	8776	12250	17306	78.3	57
150% RDF	10592	6676	8634	12174	16773	77.9	56

C.D. (5%) Ai-Aj	2811.9	567.7	1689.8	2645.8	1735.8	8.1	3.5
C.V. (%) Error A	15.2	4.7	10.0	12.3	5.8	5.9	3.6
F (5%)	NS	NS	NS	NS	NS	NS	NS

FQH 186	10607	7917	9262	10460	18850	77.5	60.3
Vivek Hybrid 53 (C)	10404	7057	8730	11285	17556	75.7	59.6
FPVH 1	12270	7488	9879	15213	18265	80.5	59.4
APQH 9 (C)	8786	5111	6948	11892	13488	78.8	46.5

C.D. (5%) Bi-Bj	1157.2	883.1	1020.2	1421.0	1354.2	5.1	2.8
C.V. (%) ErrorB	8.7	10.2	9.5	9.2	6.3	5.2	4.0
F (5%)	S	S	S	S	S	NS	S

Cont...

A-48

Nutrient levels	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling		Days to 50% silking	
		Almora	Imphal	Almora	Imphal	Almora	Imphal	Almora	Imphal
100% RDF	FQH 186	79.0	61.8	235.6	216.0	47.3	53.3	49.3	56.0
	Vivek Hybrid 53 (C)	75.5	60.0	215.5	196.5	48.7	53.0	50.7	56.3
	FPVH 1	96.8	59.6	255.5	218.4	50.7	53.7	52.7	56.0
	APQH 9 (C)	77.7	47.7	242.0	227.5	43.7	56.7	45.7	59.7
150% RDF	FQH 186	76.0	60.5	230.5	204.9	47.3	53.0	49.3	55.7
	Vivek Hybrid 53 (C)	76.0	59.0	219.5	195.9	48.0	53.7	50.0	56.7
	FPVH 1	108.1	60.1	267.0	225.3	50.0	52.3	52.0	54.7
	APQH 9 (C)	79.9	46.0	236.9	223.2	46.7	56.7	48.7	59.7

Location mean	83.6	56.8	237.8	213.5	47.8	54.0	49.8	56.8
C.D.(5%) AiBj-AiBk	11.6	4.0	17.7	14.7	3.7	1.4	3.7	1.9
C.D.(5%) AiBk-AjBk	14.1	4.1	29.4	31.9	4.8	1.3	4.8	1.9
F(5%)	NS	NS	NS	NS	NS	NS	NS	NS

100% RDF	82.2	57.3	237.2	214.6	47.6	54.2	49.6	57.0
150% RDF	85.0	56.4	238.5	212.3	48.0	53.9	50.0	56.7

C.D. (5%) Ai-Aj	10.9	2.5	27.0	30.8	4.0	0.6	4.0	0.9
C.V. (%) Error A	7.4	2.5	6.5	8.2	4.8	0.7	4.6	1.0
F (5%)	NS	NS	NS	NS	NS	NS	NS	NS

FQH 186	77.5	61.1	233.0	210.4	47.3	53.2	49.3	55.8
Vivek Hybrid 53 (C)	75.7	59.5	217.5	196.2	48.3	53.3	50.3	56.5
FPVH 1	102.4	59.9	261.3	221.9	50.3	53.0	52.3	55.3
APQH 9 (C)	78.8	46.9	239.5	225.3	45.2	56.7	47.2	59.7

C.D. (5%) Bi-Bj	8.2	2.8	12.5	10.4	2.6	1.0	2.6	1.4
C.V. (%) ErrorB	7.8	4.0	4.2	3.9	4.3	1.4	4.2	1.9
F (5%)	S	S	S	S	S	S	S	S

Cont...

A-49

Nutrient levels	Genotypes	100-seed weight (g)		Net returns (Rs./ha)		B:C ratio	
		Almora	Imphal	Almora	Imphal	Almora	Imphal
100% RDF	FQH 186	36.7	37.6	192855	121324	4.71	3.9
	Vivek Hybrid 53 (C)	38.0	35.4	189417	107412	4.63	3.5
	FPVH 1	31.7	36.9	207117	112983	5.06	3.7
	APQH 9 (C)	29.1	32.4	164359	61310	4.02	2.5
150% RDF	FQH 186	37.1	37.2	179825	109232	4.04	3.4
	Vivek Hybrid 53 (C)	37.8	36.3	178591	89348	4.02	3.0
	FPVH 1	31.4	36.1	249820	100779	5.62	3.2
	APQH 9 (C)	30.7	32.6	142587	57815	3.21	2.3

Location mean	34.1	35.6	188071.3	95025.5	4.41	3.2
C.D.(5%) AiBj-AiBk	2.1	2.2	32196.3	23785.8	0.75	0.5
C.D.(5%) AiBk-AjBk	2.2	2.1	63228.8	22958.1	1.48	0.5
F(5%)	NS	NS	S	NS	NS	NS

100% RDF	33.9	35.6	188437	100757	4.60	3.4
150% RDF	34.3	35.5	187706	89294	4.22	3.0

C.D. (5%) Ai-Aj	1.4	1.0	60187.7	11518.6	1.41	0.2
C.V. (%) Error A	2.4	1.5	18.2	6.9	18.22	4.3
F (5%)	NS	NS	NS	NS	NS	S

FQH 186	36.9	37.4	186340	115278	4.38	3.6
Vivek Hybrid 53 (C)	37.9	35.9	184004	98380	4.32	3.3
FPVH 1	31.6	36.5	228468	106881	5.34	3.4
APQH 9 (C)	29.9	32.5	153473	59562	3.61	2.4

C.D. (5%) Bi-Bj	1.5	1.6	22766.3	16819.1	0.53	0.4
C.V. (%) ErrorB	3.5	3.5	9.6	14.1	9.5	9.6
F (5%)	S	S	S	S	S	S

Cont...

A-50

Nutrient levels	Genotypes	Turcicum Leaf Blight (0-9 scale score)	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
		Almora	Imphal	Imphal	Imphal	Imphal
100% RDF	FQH 186	2.33	18.9	16.5	15.6	36.1
	Vivek Hybrid 53 (C)	1.00	18.1	16.2	15.3	34.8
	FPVH 1	1.00	17.2	15.9	15.2	34.6
	APQH 9 (C)	1.00	15.0	13.9	13.2	28.8
150% RDF	FQH 186	1.00	18.3	15.9	15.3	35.2
	Vivek Hybrid 53 (C)	1.00	17.3	15.7	14.9	33.7
	FPVH 1	1.00	17.1	15.2	15.1	32.9
	APQH 9 (C)	1.00	14.8	13.7	13.7	28.4

Location mean	1.17	17.1	15.4	14.8	33.1
C.D.(5%) AiBj-AiBk	0.73	1.5	0.6	1.5	3.8
C.D.(5%) AiBk-AjBk	0.90	1.3	1.4	1.9	4.6
F(5%)	S	NS	NS	NS	NS

100% RDF	1.33	17.3	15.6	14.8	33.6
150% RDF	1.00	16.9	15.2	14.8	32.6

C.D. (5%) Ai-Aj	0.72	0.3	1.4	1.5	3.5
C.V. (%) Error A	34.99	1.0	5.1	5.7	6.1
F (5%)	NS	S	NS	NS	NS

FQH 186	1.67	18.6	16.2	15.5	35.7
Vivek Hybrid 53 (C)	1.00	17.7	16.0	15.1	34.3
FPVH 1	1.00	17.1	15.5	15.2	33.8
APQH 9 (C)	1.00	14.9	13.8	13.5	28.6

C.D. (5%) Bi-Bj	0.51	1.1	0.4	1.1	2.7
C.V. (%) ErrorB	35.0	5.0	2.2	5.6	6.5
F (5%)	S	S	S	S	S

Table 11: Performance of pre release genotypes of EDV under varying nutrient levels in North West Plain Zone (NWPZ).

Nutrient levels	Genotypes	Grain yield (kg/ha)		NWPZ (mean)	Stover yield (kg/ha)		Cob yield (kg/ha)
		Karnal	Pantnagar		Karnal	Pantnagar	Karnal
100% RDF	PVAPMH 1	6580	7166	6873	14439	10508	7865
	PMH 1 (C)	7797	7718	7757	14428	9778	9318
	HQPM-5 (C)	6960	5660	6310	13058	8667	8774
	QPMH 1	6520	6692	6606	13319	8667	8083
	APTQH5	6872	6180	6526	13708	9344	8628
	APH 4	7049	7059	7054	12617	10238	8393
	HQPM 1 (C)	6808	6493	6650	13378	9230	8550
	APQH 9 (C)	3651	5885	4768	18117	7007	4440
150% RDF	PVAPMH 1	7041	7740	7390	15386	11111	8316
	PMH 1 (C)	8263	8024	8143	15575	10333	9759
	HQPM-5 (C)	7470	5920	6695	14156	9015	9298
	QPMH 1	6884	7208	7046	14550	9222	8430
	APTQH5	7287	6647	6967	14792	10000	9036
	APH 4	7480	7596	7538	13847	10889	8803
	HQPM 1 (C)	7201	6769	6985	14719	9732	8933
	APQH 9 (C)	4621	6200	5410	19386	7511	5541
Location mean		6780.3	6809.8	6795.0	14717.2	9453.3	8260.5
C.D.(5%) AiBj-AiBk		481.3	1266.7	874.0	1473.2	1959.4	623.8
C.D.(5%) AiBk-AjBk		560.2	1376.4	968.3	1434.2	1844.3	711.2
F(5%)		NS	NS	NS	NS	NS	NS
100% RDF		6530	6607	6568	14133	9180	8006
150% RDF		7031	7013	7022	15301	9727	8515
C.D. (5%) Ai-Aj		381.5	807.9	594.7	464.4	241.2	466.4
C.V. (%) Error A		4.5	9.6	7.0	2.5	2.1	4.5
F (5%)		S	NS	S	S	S	S
PVAPMH 1		6811	7453	7132	14913	10810	8091
PMH 1 (C)		8030	7871	7950	15001	10056	9539
HQPM-5 (C)		7215	5790	6502	13607	8841	9036
QPMH 1		6702	6950	6826	13935	8944	8257
APTQH5		7080	6414	6747	14250	9672	8832
APH 4		7265	7328	7296	13232	10563	8598
HQPM 1 (C)		7005	6631	6818	14049	9481	8742
APQH 9 (C)		4136	6043	5089	18751	7259	4990
C.D. (5%) Bi-Bj		340.3	895.7	618.0	1041.7	1385.5	441.1
C.V. (%) ErrorB		4.2	11.1	7.7	6.0	12.4	4.5
F (5%)		S	S	S	S	S	S

Cont...

Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)	Plant height (cm)	
		Karnal	Pantnagar	Pantnagar	Karnal	Pantnagar
100% RDF	PVAPMH 1	65.3	65.6	65.6	206.7	208.9
	PMH 1 (C)	65.6	66.7	66.7	200.0	218.7
	HQPM-5 (C)	65.3	63.3	63.3	209.0	181.1
	QPMH 1	66.1	65.6	65.6	217.7	171.5
	APTQH5	65.6	63.3	63.3	211.7	175.0
	APH 4	65.6	64.4	64.4	209.0	192.1
	HQPM 1 (C)	66.1	64.4	64.4	196.7	180.5
	APQH 9 (C)	38.1	64.4	64.4	201.0	188.9
150% RDF	PVAPMH 1	64.7	63.3	63.3	214.7	210.9
	PMH 1 (C)	65.0	63.3	63.3	212.0	222.7
	HQPM-5 (C)	65.3	63.3	63.3	221.0	187.5
	QPMH 1	64.7	65.6	65.6	229.7	176.7
	APTQH5	64.7	65.6	65.6	223.7	180.3
	APH 4	64.7	63.3	63.3	221.0	196.9
	HQPM 1 (C)	65.0	65.6	65.6	208.7	184.4
	APQH 9 (C)	44.4	63.3	63.3	213.0	192.9
Location mean		62.3	64.4	64.4	212.2	191.8
C.D.(5%) AiBj-AiBk		3.7	5.2	5.2	11.9	16.9
C.D.(5%) AiBk-AjBk		4.8	5.2	5.2	11.3	25.7
F(5%)		NS	NS	NS	NS	NS
100% RDF		62.2	64.7	64.7	206.5	189.6
150% RDF		62.3	64.2	64.2	218.0	194.0
C.D. (5%) Ai-Aj		3.8	2.2	2.2	2.2	22.5
C.V. (%) Error A		5.0	2.7	2.7	0.8	9.4
F (5%)		NS	NS	NS	S	NS
PVAPMH 1		65.0	64.4	64.4	210.7	209.9
PMH 1 (C)		65.3	65.0	65.0	206.0	220.7
HQPM-5 (C)		65.3	63.3	63.3	215.0	184.3
QPMH 1		65.4	65.6	65.6	223.7	174.1
APTQH5		65.1	64.4	64.4	217.7	177.7
APH 4		65.1	63.9	63.9	215.0	194.5
HQPM 1 (C)		65.6	65.0	65.0	202.7	182.5
APQH 9 (C)		41.3	63.9	63.9	207.0	190.9
C.D. (5%) Bi-Bj		2.6	3.7	3.7	8.4	12.0
C.V. (%) ErrorB		3.5	4.8	4.8	3.4	5.3
F (5%)		S	NS	NS	S	S

Cont...

Nutrient levels	Genotypes	Days to 50% tasseling		Days to 50% silking		Shelling (%)	100-seed weight (g)
		Karnal	Pantnagar	Karnal	Pantnagar	Karnal	Pantnagar
100% RDF	PVAPMH 1	52.7	52.3	55.7	55.3	83.7	27.8
	PMH 1 (C)	53.3	53.3	56.3	56.3	83.7	29.5
	HQPM-5 (C)	51.7	53.7	54.7	56.7	79.3	26.7
	QPMH 1	43.7	47.3	46.7	50.3	80.7	25.7
	APTQH5	54.3	54.0	57.3	57.0	79.7	28.2
	APH 4	52.0	53.7	55.0	56.7	84.0	25.7
	HQPM 1 (C)	54.3	51.7	57.3	54.7	79.7	25.6
	APQH 9 (C)	40.3	46.7	43.3	49.7	82.3	21.5
150% RDF	PVAPMH 1	52.3	52.0	55.3	55.0	84.7	27.9
	PMH 1 (C)	52.3	53.3	55.3	56.3	84.7	30.2
	HQPM-5 (C)	52.3	53.3	55.3	56.3	80.3	27.2
	QPMH 1	43.3	47.3	46.3	50.3	81.7	26.6
	APTQH5	53.3	54.0	56.3	57.0	80.7	26.1
	APH 4	51.3	53.3	54.3	56.3	85.0	26.0
	HQPM 1 (C)	53.7	51.3	56.7	54.3	80.7	25.8
	APQH 9 (C)	40.0	47.0	43.0	50.0	83.3	22.6
Location mean		50.1	51.5	53.1	54.5	82.1	26.5
C.D.(5%) AiBj-AiBk		0.8	0.9	0.8	0.9	2.1	2.6
C.D.(5%) AiBk-AjBk		0.8	0.9	0.8	0.9	2.0	3.1
F(5%)		NS	NS	NS	NS	NS	NS
100% RDF		50.3	51.6	53.3	54.6	81.6	26.3
150% RDF		49.8	51.5	52.8	54.5	82.6	26.6
C.D. (5%) Ai-Aj		0.2	0.5	0.2	0.5	0.3	2.2
C.V. (%) Error A		0.3	0.8	0.3	0.8	0.3	6.8
F (5%)		S	NS	S	NS	S	NS
PVAPMH 1		52.5	52.2	55.5	55.2	84.2	27.9
PMH 1 (C)		52.8	53.3	55.8	56.3	84.2	29.9
HQPM-5 (C)		52.0	53.5	55.0	56.5	79.8	27.0
QPMH 1		43.5	47.3	46.5	50.3	81.2	26.2
APTQH5		53.8	54.0	56.8	57.0	80.2	27.1
APH 4		51.7	53.5	54.7	56.5	84.5	25.9
HQPM 1 (C)		54.0	51.5	57.0	54.5	80.2	25.7
APQH 9 (C)		40.2	46.8	43.2	49.8	82.8	22.0
C.D. (5%) Bi-Bj		0.6	0.6	0.6	0.6	1.5	1.8
C.V. (%) ErrorB		1.0	1.0	0.9	1.0	1.6	5.8
F (5%)		S	S	S	S	S	S

Cont...

A-54

Nutrient levels	Genotypes	Net returns (Rs./ha)		B:C ratio	
		Karnal	Pantnagar	Karnal	Pantnagar
100% RDF	PVAPMH 1	89024	97033	3.10	2.23
	PMH 1 (C)	112739	107852	3.65	2.48
	HQPM-5 (C)	96435	67474	3.27	1.55
	QPMH 1	87840	87719	3.07	2.01
	APTQH5	94716	77688	3.23	1.78
	APH 4	98156	94930	3.31	2.18
	HQPM 1 (C)	93466	83815	3.20	1.92
	APQH 9 (C)	31908	71905	1.76	1.65
150% RDF	PVAPMH 1	94350	105283	3.04	2.26
	PMH 1 (C)	118169	110862	3.55	2.38
	HQPM-5 (C)	102700	69584	3.22	1.49
	QPMH 1	91287	94855	2.98	2.04
	APTQH5	99145	83854	3.15	1.80
	APH 4	102910	102473	3.23	2.20
	HQPM 1 (C)	97471	86238	3.11	1.85
	APQH 9 (C)	47145	75078	2.03	1.61
Location mean		91091.2	88540.3	3.06	2.0
C.D.(5%) AiBj-AiBk		9385.5	24852.9	0.21	0.6
C.D.(5%) AiBk-AjBk		10924.4	27005.2	0.25	0.6
F(5%)		NS	NS	NS	NS
100% RDF		88035	86052	3.07	2.0
150% RDF		94147	91029	3.04	2.0
C.D. (5%) Ai-Aj		7438.9	15850.8	0.18	0.4
C.V. (%) Error A		6.6	14.4	4.8	14.8
F (5%)		NS	NS	NS	NS
PVAPMH 1		91687	101158	3.07	2.2
PMH 1 (C)		115454	109357	3.60	2.4
HQPM-5 (C)		99568	68529	3.25	1.5
QPMH 1		89563	91287	3.02	2.0
APTQH5		96931	80771	3.19	1.8
APH 4		100533	98702	3.27	2.2
HQPM 1 (C)		95468	85026	3.16	1.9
APQH 9 (C)		39526	73492	1.89	1.6
C.D. (5%) Bi-Bj		6636.6	17573.6	0.15	0.4
C.V. (%) ErrorB		6.2	16.8	4.1	17.1
F (5%)		S	S	S	S

Table 12: Performance of pre release genotypes of EDV under varying nutrients levels in North East Plain Zone (NEPZ).

Nutrient levels	Genotypes	Grain yield (kg/ha)		NEPZ (mean)	Stover yield (kg/ha)		Cob yield (kg/ha)
		Bhubaneswar	Kalyani		Bhubaneswar	Kalyani	Bhubaneswar
100% RDF	PMH 6 (C)	6967	6054	6511	15710	7931	8670
	PVAPMH 6	6868	6334	6601	15132	8286	8264
	HQPM-5 (C)	6619	6243	6431	14799	8150	8181
	QPMH6	7296	4242	5769	16571	6186	9013
	APTQH5	6049	6163	6106	13974	8073	7593
	APH 4	6768	4029	5398	15160	6014	8259
	APQH 9 (C)	5616	5441	5529	12726	7412	7000
150% RDF	PMH 6 (C)	7518	6088	6803	16861	8023	9344
	PVAPMH 6	7350	7306	7328	16233	9231	8817
	HQPM-5 (C)	6842	7073	6957	15397	8985	8556
	QPMH6	7980	5002	6491	18286	6929	10022
	APTQH5	6456	6370	6413	14556	8299	8100
	APH 4	7133	4453	5793	15794	6441	8661
	APQH 9 (C)	5900	6089	5994	13253	8005	7354

Mean of location	6811.5	5777.6	6294.5	15318.2	7711.7	8416.6
C.D. at 5 (%)	660.1	1295.4	977.7	1408.7	1320.2	640.5
F (5%)	NS	NS	NS	NS	NS	NS

100% RDF	6598	5501	6049	14868	7436	8140
150% RDF	7025	6054	6540	15769	7987	8693

C.D. at 5 (%)	249.5	489.6	369.6	532.5	499.0	242.1
F (5%)	S	S	S	S	S	S

PMH 6 (Check)	7242	6071	6657	16286	7977	9007
PVAPMH 6	7109	6820	6965	15683	8758	8540
HQPM-5 (Check)	6730	6658	6694	15098	8568	8368
QPMH6	7638	4622	6130	17429	6557	9517
APTQH5	6253	6266	6260	14265	8186	7846
APH 4	6950	4241	5596	15477	6227	8460
APQH 9 (Check)	5758	5765	5762	12990	7709	7177

C.D. at 5 (%)	466.8	916.0	691.4	996.1	933.5	452.9
C.V. (%)	5.8	13.4	9.6	5.5	10.2	4.5
F (5%)	S	S	S	S	S	S

Cont...

A-56

Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)	Plant height (cm)		Ear height (cm)
		Bhubaneswar	Kalyani	Kalyani	Bhubaneswar	Kalyani	Bhubaneswar
100% RDF	PMH 6 (C)	77.4	61.7	61.3	160.3	247.3	68.5
	PVAPMH 6	77.4	66.3	66.0	164.8	286.3	70.4
	HQPM-5 (C)	78.1	64.7	64.7	162.1	280.0	77.4
	QPMH6	79.6	59.3	59.3	173.4	235.0	78.6
	APTQH5	76.3	61.0	61.0	151.1	266.7	64.5
	APH 4	78.1	50.0	50.0	163.4	265.0	71.9
	APQH 9 (C)	78.9	61.0	61.0	156.6	273.3	65.4
150% RDF	PMH 6 (C)	76.7	64.7	64.3	166.3	289.7	74.5
	PVAPMH 6	78.1	71.7	71.7	172.1	293.3	75.0
	HQPM-5 (C)	77.8	66.3	66.3	167.3	283.3	75.9
	QPMH6	77.4	65.0	65.0	175.1	257.3	82.3
	APTQH5	77.0	61.7	61.3	157.1	276.7	68.9
	APH 4	80.0	52.3	52.3	167.8	273.3	72.5
	APQH 9 (C)	78.1	63.3	63.0	160.4	286.7	67.3

Mean of location	77.9	62.1	62.0	164.1	272.4	72.4
C.D. at 5 (%)	3.7	8.4	8.3	5.5	33.4	4.5
F (5%)	NS	NS	NS	NS	NS	NS

100% RDF	78.0	60.6	60.5	161.7	264.8	71.0
150% RDF	77.9	63.6	63.4	166.6	280.0	73.8

C.D. at 5 (%)	1.4	3.2	3.1	2.1	12.6	1.7
F (5%)	NS	NS	NS	S	S	S

PMH 6 (Check)	77.0	63.2	62.8	163.3	268.5	71.5
PVAPMH 6	77.8	69.0	68.8	168.5	289.8	72.7
HQPM-5 (Check)	78.0	65.5	65.5	164.7	281.7	76.7
QPMH6	78.5	62.2	62.2	174.3	246.2	80.5
APTQH5	76.7	61.3	61.2	154.1	271.7	66.7
APH 4	79.1	51.2	51.2	165.6	269.2	72.2
APQH 9 (Check)	78.5	62.2	62.0	158.5	280.0	66.3

C.D. at 5 (%)	2.6	5.9	5.8	3.9	23.6	3.2
C.V. (%)	2.8	8.1	7.9	2.0	7.3	3.7
F (5%)	NS	S	S	S	S	S

Cont...

A-57

Nutrient levels	Genotypes	Days to 50% pollen shed	Days to 50% tasseling	Days to 50% silking		Days to 50% dry husk
		Bhubaneswar	Kalyani	Bhubaneswar	Kalyani	Bhubaneswar
100% RDF	PMH 6 (C)	51.0	62.0	53.0	66.3	91.0
	PVAPMH 6	52.0	61.0	54.0	64.7	91.0
	HQPM-5 (C)	50.0	60.3	52.0	63.7	92.7
	QPMH6	51.7	62.3	53.3	66.0	89.3
	APTQH5	51.7	58.3	53.7	62.7	90.0
	APH 4	49.0	58.0	51.0	61.0	88.3
	APQH 9 (C)	42.7	54.7	45.0	58.3	85.0
150% RDF	PMH 6 (C)	50.3	62.3	53.0	65.7	90.0
	PVAPMH 6	50.7	63.3	53.7	66.7	90.7
	HQPM-5 (C)	50.7	58.3	52.0	62.0	89.3
	QPMH6	51.3	63.3	53.0	67.3	91.3
	APTQH5	51.7	59.7	53.7	63.7	91.0
	APH 4	47.7	56.3	51.0	60.7	88.0
	APQH 9 (C)	43.7	55.3	44.7	59.3	85.0

Mean of location	49.6	59.7	51.6	63.4	89.5
C.D. at 5 (%)	1.4	2.5	1.3	2.8	2.0
F (5%)	NS	NS	NS	NS	S

100% RDF	49.7	59.5	51.7	63.2	89.6
150% RDF	49.4	59.8	51.6	63.6	89.3

C.D. at 5 (%)	0.5	0.9	0.5	1.1	0.8
F (5%)	NS	NS	NS	NS	NS

PMH 6 (Check)	50.7	62.2	53.0	66.0	90.5
PVAPMH 6	51.3	62.2	53.8	65.7	90.8
HQPM-5 (Check)	50.3	59.3	52.0	62.8	91.0
QPMH6	51.5	62.8	53.2	66.7	90.3
APTQH5	51.7	59.0	53.7	63.2	90.5
APH 4	48.3	57.2	51.0	60.8	88.2
APQH 9 (Check)	43.2	55.0	44.8	58.8	85.0

C.D. at 5 (%)	1.0	1.8	0.9	2.0	1.4
C.V. (%)	1.7	2.5	1.5	2.6	1.3
F (5%)	S	S	S	S	S

Cont...

A-58

Nutrient levels	Genotypes	100-seed weight (g)	Net returns (Rs./ha)		B:C ratio	
		Kalyani	Bhubaneswar	Kalyani	Bhubaneswar	Kalyani
100% RDF	PMH 6 (C)	36.7	85282	95057	1.90	2.76
	PVAPMH 6	37.3	83431	101919	1.85	2.89
	HQPM-5 (C)	36.0	78767	99647	1.75	2.85
	QPMH6	29.7	91435	51688	2.03	1.96
	APTQH5	35.3	68117	97732	1.51	2.81
	APH 4	35.3	81559	46659	1.81	1.86
	APQH 9 (C)	35.7	60028	80534	1.33	2.49
150% RDF	PMH 6 (C)	39.0	93580	92981	1.99	2.63
	PVAPMH 6	39.3	90445	122201	1.92	3.14
	HQPM-5 (C)	37.3	80941	116577	1.72	3.05
	QPMH6	36.3	102220	66895	2.17	2.17
	APTQH5	38.3	73733	99730	1.57	2.75
	APH 4	36.3	86387	53840	1.84	1.94
	APQH 9 (C)	37.3	63327	92960	1.35	2.63

Mean of location	36.4	81375.1	87029.9	1.77	2.57
C.D. at 5 (%)	3.7	12344.3	31132.3	0.27	0.56
F (5%)	NS	NS	NS	NS	NS

100% RDF	35.1	78374	81891	1.74	2.5
150% RDF	37.7	84376	92169	1.80	2.62

C.D. at 5 (%)	1.4	4665.7	11766.9	0.10	0.21
F (5%)	S	S	NS	NS	NS

PMH 6 (Check)	37.8	89431	94019	1.94	2.70
PVAPMH 6	38.3	86938	112060	1.89	3.02
HQPM-5 (Check)	36.7	79854	108112	1.74	2.95
QPMH6	33.0	96827	59291	2.10	2.07
APTQH5	36.8	70925	98731	1.54	2.78
APH 4	35.8	83973	50249	1.83	1.90
APQH 9 (Check)	36.5	61677	86747	1.34	2.56

C.D. at 5 (%)	2.6	8728.8	22013.9	0.19	0.39
C.V. (%)	6.1	9.0	21.3	9.0	12.9
F (5%)	S	S	S	S	S

Table 13: Performance of pre release genotypes of EDV under varying planting density and nutrient levels in Peninsular Zone (PZ).

Planting density	Nutrient levels	Genotypes	Grain yield (kg/ha)		PZ (mean)	Stover yield (kg/ha)		Cob yield (kg/ha)
			Karimnagar	Peddapuram		Karimnagar	Peddapuram	Karimnagar
Normal	100% RDF	APH 4	4709	4611	4660	6842	6500	6257
		APQH 9 (C)	4918	5333	5126	7051	7056	6331
		APTQH 5	5329	6000	5665	7258	7889	7124
		HQPM 5 (C)	5029	5389	5209	7030	7389	6508
	150% RDF	APH 4	4885	5000	4943	6851	7000	6372
		APQH 9 (C)	4865	5778	5322	6960	7611	6522
		APTQH 5	5552	6611	6081	7337	8389	7326
		HQPM 5 (C)	5145	6056	5600	7141	7944	6792
High	100% RDF	APH 4	4735	5056	4895	7083	7000	6230
		APQH 9 (C)	5266	5778	5522	7150	7389	7065
		APTQH 5	5998	6611	6305	8042	8333	7965
		HQPM 5 (C)	5638	6056	5847	7861	7722	7268
	150% RDF	APH 4	5265	5778	5521	7560	7500	6801
		APQH 9 (C)	5547	6444	5996	7539	8389	7236
		APTQH 5	6203	7333	6768	8439	8889	8107
		HQPM 5 (C)	6067	6722	6394	8351	8500	7851

Mean of location	5322.0	5909.7	5615.9	7405.9	7718.8	6984.8
------------------	--------	--------	---------------	--------	--------	--------

Normal	5054	5597	5326	7059	7472	6654
High	5590	6222	5906	7753	7965	7315

CD at 5%	NS	NS	NS	NS	NS	NS
----------	----	----	-----------	----	----	----

CV (%)	8.4	9.2	8.8	8.3	7.9	10.6
--------	-----	-----	------------	-----	-----	------

100% RDF	5203	5604	5404	7290	7410	6844
150% RDF	5441	6215	5828	7522	8028	7126

CD at 5%	NS	559.5	559.5	NS	467.9	NS
----------	----	-------	--------------	----	-------	----

CV (%)	10.0	11.8	10.9	8.0	7.6	10.6
--------	------	------	-------------	-----	-----	------

APH 4	4899	5111	5005	7084	7000	6415
APQH 9 (Check)	5149	5833	5491	7175	7611	6789
APTQH 5	5771	6639	6205	7769	8375	7631
HQPM 5 (Check)	5470	6056	5763	7596	7889	7105

CD at 5%	499.7	388.5	444.1	NS	489.1	685.1
----------	-------	-------	--------------	----	-------	-------

CV (%)	11.1	7.8	9.5	11.2	7.5	11.6
--------	------	-----	------------	------	-----	------

Cont...

A-60

Planting density	Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)		Plant height (cm)	
			Karimnagar	Peddapuram	Karimnagar	Peddapuram	Karimnagar	Peddapuram
Normal	100% RDF	APH 4	72.7	68.9	72.7	67.2	139.5	188.3
		APQH 9 (C)	74.3	76.7	74.3	74.4	127.7	190.3
		APTQH 5	76.3	78.9	76.3	77.2	138.2	198.3
		HQPM 5 (C)	73.3	78.3	73.3	76.1	138.3	192.0
	150% RDF	APH 4	71.3	68.9	71.3	67.2	142.0	193.0
		APQH 9 (C)	72.3	77.8	72.3	76.1	125.1	196.0
		APTQH 5	75.0	77.2	75.0	75.0	142.3	205.7
		HQPM 5 (C)	75.3	77.8	75.3	76.1	150.3	198.3
High	100% RDF	APH 4	84.0	82.8	84.0	81.1	142.3	189.0
		APQH 9 (C)	84.7	93.3	84.7	90.6	130.7	193.3
		APTQH 5	86.3	95.0	86.3	92.8	144.3	204.0
		HQPM 5 (C)	86.7	93.9	86.7	91.7	147.3	197.3
	150% RDF	APH 4	82.3	86.1	82.3	83.9	138.1	189.7
		APQH 9 (C)	83.3	94.4	83.3	92.2	140.3	199.0
		APTQH 5	81.3	96.1	87.7	93.9	140.0	211.3
		HQPM 5 (C)	81.3	94.4	84.3	92.2	156.8	202.7

Mean of location	78.8	83.8	79.4	81.7	140.2	196.8
------------------	------	------	------	------	-------	-------

Normal	73.8	75.6	73.8	73.7	137.9	195.3
High	83.8	92.0	84.9	89.8	142.5	198.3
CD at 5%	5.5	1.4	4.4	2.3	NS	NS
CV (%)	5.6	1.3	4.4	2.3	3.2	3.5

100% RDF	79.8	83.5	79.8	81.4	138.6	194.1
150% RDF	77.8	84.1	79.0	82.1	141.9	199.5
CD at 5%	NS	NS	NS	NS	2.7	4.6
CV (%)	3.8	3.1	3.0	3.3	2.4	2.9

APH 4	77.6	76.7	77.6	74.9	140.5	190.0
APQH 9 (Check)	78.7	85.6	78.7	83.3	130.9	194.7
APTQH 5	79.8	86.8	81.3	84.7	141.2	204.8
HQPM 5 (Check)	79.2	86.1	79.9	84.0	148.2	197.6
CD at 5%	1.5	1.4	1.5	1.3	3.6	7.1
CV (%)	2.2	2.0	2.3	1.8	3.0	4.3

Cont...

A-61

Planting density	Nutrient levels	Genotypes	Ear height (cm)	Days to 50% tasseling		Days to 50% silking	
			Karimnagar	Karimnagar	Peddapuram	Karimnagar	Peddapuram
Normal	100% RDF	APH 4	43.3	52.0	47.3	56.0	49.7
		APQH 9 (C)	42.1	53.0	39.0	57.0	41.3
		APTQH 5	48.2	51.3	51.3	55.3	53.3
		HQPM 5 (C)	51.7	50.0	49.3	54.0	51.3
	150% RDF	APH 4	46.0	54.7	46.7	58.7	49.3
		APQH 9 (C)	41.2	53.0	39.0	57.0	41.3
		APTQH 5	52.0	52.7	50.3	56.3	52.3
		HQPM 5 (C)	58.0	52.7	48.0	56.0	50.3
High	100% RDF	APH 4	43.1	52.7	47.0	56.7	49.7
		APQH 9 (C)	36.7	54.0	38.7	57.0	41.0
		APTQH 5	45.0	54.3	50.7	57.3	52.7
		HQPM 5 (C)	48.0	50.0	48.3	53.7	50.3
	150% RDF	APH 4	43.7	54.0	47.7	57.0	50.0
		APQH 9 (C)	52.3	50.0	39.3	53.3	41.3
		APTQH 5	57.3	51.3	50.3	54.3	53.0
		HQPM 5 (C)	59.9	52.7	47.7	56.0	50.0

Mean of location	48.0	52.4	46.3	56.0	48.6
------------------	------	------	------	------	------

Normal	47.8	52.4	46.4	56.3	48.6
High	48.3	52.4	46.2	55.7	48.5
CD at 5%	NS	NS	NS	NS	NS
CV (%)	14.9	1.7	1.4	1.8	1.4

100% RDF	44.8	52.2	46.5	55.9	48.7
150% RDF	51.3	52.6	46.1	56.1	48.5
CD at 5%	3.6	NS	NS	NS	NS
CV (%)	9.3	2.9	1.5	2.6	1.7

APH 4	44.0	53.3	47.2	57.1	49.7
APQH 9 (Check)	43.1	52.5	39.0	56.1	41.3
APTQH 5	50.6	52.4	50.7	55.8	52.8
HQPM 5 (Check)	54.4	51.3	48.3	54.9	50.5
CD at 5%	4.5	0.9	0.8	0.9	0.8
CV (%)	11.2	2.0	2.0	1.9	1.9

Cont...

A-62

Planting density	Nutrient levels	Genotypes	100-seed weight (g)		Net returns (Rs./ha)		B:C ratio	
			Karimnagar	Peddapuram	Karimnagar	Peddapuram	Karimnagar	Peddapuram
Normal	100% RDF	APH 4	28.7	25.1	42857	28133	1.87	1.45
		APQH 9 (C)	28.7	26.9	46958	42303	1.95	1.68
		APTQH 5	30.0	30.8	55022	55383	2.11	1.89
		HQPM 5 (C)	29.7	28.4	49122	43393	1.99	1.70
	150% RDF	APH 4	26.2	26.8	42160	31636	1.79	1.48
		APQH 9 (C)	26.8	29.0	41768	46896	1.78	1.71
		APTQH 5	28.5	32.0	55234	63246	2.03	1.95
		HQPM 5 (C)	27.2	31.5	47248	52346	1.88	1.79
High	100% RDF	APH 4	28.0	24.3	43354	34453	1.88	1.53
		APQH 9 (C)	29.3	26.1	53779	48623	2.09	1.75
		APTQH 5	31.3	30.1	68147	64973	2.38	2.00
		HQPM 5 (C)	30.7	28.3	61084	54073	2.23	1.84
	150% RDF	APH 4	28.7	25.0	49603	44496	1.92	1.65
		APQH 9 (C)	28.3	27.7	55142	57576	2.03	1.84
		APTQH 5	32.0	31.3	68019	75016	2.27	2.09
		HQPM 5 (C)	29.3	29.9	65338	63026	2.22	1.92

Mean of location	29.0	28.3	52802.2	50348.6	2.02	1.77
------------------	------	------	---------	---------	------	------

Normal	28.2	28.8	47546	45417	1.92	1.70
High	29.7	27.8	58058	55280	2.13	1.83
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	6.9	7.3	16.5	21.3	8.3	9.3

100% RDF	29.5	27.5	52540	46417	2.06	1.73
150% RDF	28.4	29.1	53064	54280	1.99	1.80
CD at 5%	NS	1.4	NS	NS	NS	NS
CV (%)	7.0	6.0	19.8	27.2	10.2	11.9

APH 4	27.9	25.3	44494	34680	1.86	1.53
APQH 9 (Check)	28.3	27.4	49412	48850	1.96	1.74
APTQH 5	30.5	31.0	61605	64655	2.20	1.98
HQPM 5 (Check)	29.2	29.5	55698	53210	2.08	1.81
CD at 5%	1.3	1.4	9804.9	7622.0	0.2	0.1
CV (%)	5.2	5.9	22.0	18.0	11.2	7.9

Cont...

A-63

Planting density	Nutrient levels	Genotypes	Cob length (cm)		Cob diameter (cm)	Cob girth (cm)	Grain rows/cob	
			Karimnagar	Peddapuram	Karimnagar	Peddapuram	Karimnagar	Peddapuram
Normal	100% RDF	APH 4	13.3	13.6	3.99	13.1	11.2	12.9
		APQH 9 (C)	13.6	14.3	3.69	13.7	12.6	13.3
		APTQH 5	15.4	15.7	3.84	14.4	13.4	14.7
		HQPM 5 (C)	13.9	15.0	4.23	13.9	13.2	14.0
	150% RDF	APH 4	13.8	14.1	4.17	13.6	12.3	13.1
		APQH 9 (C)	14.1	15.5	3.82	14.1	12.9	13.5
		APTQH 5	16.1	16.1	3.83	15.0	13.8	15.5
		HQPM 5 (C)	14.7	15.5	4.30	14.5	13.5	14.1
High	100% RDF	APH 4	13.1	12.2	4.17	12.8	12.7	12.5
		APQH 9 (C)	14.3	13.8	3.71	13.5	13.2	13.2
		APTQH 5	15.6	15.4	3.81	14.2	14.1	14.3
		HQPM 5 (C)	14.6	14.7	4.23	13.5	13.8	13.9
	150% RDF	APH 4	14.1	12.6	4.18	13.3	12.3	12.9
		APQH 9 (C)	14.6	14.1	3.95	14.0	13.9	13.6
		APTQH 5	15.5	15.6	3.95	14.8	14.4	14.5
		HQPM 5 (C)	14.9	15.1	4.15	14.0	14.1	14.3

Mean of location	14.5	14.6	4.00	13.9	13.2	13.8
------------------	------	------	------	------	------	------

Normal	14.4	15.0	3.98	14.0	12.9	13.9
High	14.6	14.2	4.02	13.8	13.5	13.7
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	8.3	4.4	6.8	2.8	10.9	4.6

100% RDF	14.2	14.3	3.96	13.6	13.0	13.6
150% RDF	14.7	14.8	4.04	14.2	13.4	13.9
CD at 5%	NS	0.4	NS	0.5	NS	NS
CV (%)	6.0	3.5	5.5	4.5	7.9	5.6

APH 4	13.6	13.1	4.13	13.2	12.1	12.9
APQH 9 (Check)	14.2	14.4	3.79	13.8	13.2	13.4
APTQH 5	15.6	15.7	3.86	14.6	13.9	14.7
HQPM 5 (Check)	14.5	15.1	4.23	14.0	13.7	14.1
CD at 5%	0.9	0.6	0.18	0.4	0.8	0.5
CV (%)	7.4	4.8	5.2	3.0	7.6	4.1

Cont...

A-64

Planting density	Nutrient levels	Genotypes	Grains/row		Shelling (%)
			Karimnagar	Peddapuram	Karimnagar
Normal	100% RDF	APH 4	21.3	30.1	75.4
		APQH 9 (C)	23.5	31.2	77.7
		APTQH 5	25.9	36.0	74.9
		HQPM 5 (C)	23.7	33.9	77.3
	150% RDF	APH 4	22.8	31.5	76.5
		APQH 9 (C)	23.1	32.5	74.7
		APTQH 5	26.9	37.5	75.8
		HQPM 5 (C)	24.1	35.2	75.7
High	100% RDF	APH 4	21.9	28.7	76.2
		APQH 9 (C)	23.4	30.3	74.5
		APTQH 5	26.1	35.6	75.6
		HQPM 5 (C)	23.9	32.8	77.6
	150% RDF	APH 4	24.3	30.2	77.3
		APQH 9 (C)	25.2	31.9	76.7
		APTQH 5	29.1	36.9	76.7
		HQPM 5 (C)	25.6	34.0	77.2

Mean of location	24.4	33.0	76.2
------------------	------	------	------

Normal	23.9	33.5	76.0
High	24.9	32.6	76.5
CD at 5%	NS	NS	NS
CV (%)	8.3	3.2	2.9

100% RDF	23.7	32.3	76.1
150% RDF	25.2	33.7	76.3
CD at 5%	NS	0.6	NS
CV (%)	9.3	2.2	2.6

APH 4	22.6	30.1	76.4
APQH 9 (Check)	23.8	31.5	75.9
APTQH 5	27.0	36.5	75.8
HQPM 5 (Check)	24.3	34.0	77.0
CD at 5%	2.0	1.5	NS
CV (%)	9.7	5.4	2.7

A-65

Table 14: Performance of pre release genotypes of EDV under varying planting density and nutrient levels in Central Western Zone (CWZ).

Planting density	Nutrient levels	Genotypes	Grain yield (kg/ha)		CWZ (mean)	Stover yield (kg/ha)	
			Ambikapur	Udaipur		Ambikapur	Udaipur
Normal	100% RDF	APH 4	5027	6057	5542	12568	9823
		APQH 9 (C)	5359	5431	5395	13398	9324
		APTQH 5	5666	4631	5148	14165	7131
		HQPM 5 (C)	6029	4133	5081	15072	6631
	150% RDF	APH 4	5387	6240	5814	13467	10019
		APQH 9 (C)	5549	5531	5540	13873	9513
		APTQH 5	5748	4786	5267	14369	7337
		HQPM 5 (C)	6548	4245	5396	16369	6826
High	100% RDF	APH 4	5334	7319	6327	13334	10825
		APQH 9 (C)	5565	6526	6046	13913	10319
		APTQH 5	5890	5630	5760	14725	8118
		HQPM 5 (C)	6215	5135	5675	15538	6830
	150% RDF	APH 4	5714	7430	6572	14286	11022
		APQH 9 (C)	5814	6639	6227	14536	10520
		APTQH 5	6051	5756	5904	15128	8333
		HQPM 5 (C)	6873.7	5247	6060	17184.2	7032

Mean of location	5798.1	5671.0	5734.6	14495.3	8725.2
------------------	--------	--------	---------------	---------	--------

Normal	5664	5132	5398	14160	8325
High	5932	6210	6071	14831	9125
CD at 5%	NS	847.6	847.6	NS	NS
CV (%)	9.1	12.0	10.6	9.1	11.2

100% RDF	5636	5608	5622	14089	8625
150% RDF	5961	5734	5847	14901	8825
CD at 5%	285.4	NS	285.4	713.4	NS
CV (%)	6.1	12.0	9.1	6.1	10.8

APH 4	5365	6762	6064	13414	10422
APQH 9 (Check)	5572	6032	5802	13930	9919
APTQH 5	5839	5201	5520	14597	7730
HQPM 5 (Check)	6416	4690	5553	16041	6830
CD at 5%	685.5	343.4	514.4	1713.8	440.1
CV (%)	14.0	7.2	10.6	14.0	6.0

Cont...

A-66

Planting density	Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)		Plant height (cm)	
			Ambikapur	Udaipur	Ambikapur	Udaipur	Ambikapur	Udaipur
Normal	100% RDF	APH 4	64.5	64.4	81.5	65.5	190.0	220.4
		APQH 9 (C)	65.0	63.6	80.4	64.6	200.0	198.5
		APTQH 5	64.5	64.2	80.0	61.8	205.0	205.5
		HQPM 5 (C)	64.0	63.5	81.4	64.6	208.3	200.4
	150% RDF	APH 4	64.6	64.0	80.6	65.0	200.7	225.5
		APQH 9 (C)	64.2	62.4	80.7	63.8	208.0	202.3
		APTQH 5	64.1	63.3	81.5	64.4	210.0	210.3
		HQPM 5 (C)	64.3	62.9	80.6	63.6	215.0	206.4
High	100% RDF	APH 4	82.1	82.0	94.8	83.2	196.7	226.3
		APQH 9 (C)	81.9	80.7	95.6	81.8	206.3	204.1
		APTQH 5	80.9	80.7	96.0	81.5	210.7	210.4
		HQPM 5 (C)	81.4	80.4	94.9	81.2	212.0	205.4
	150% RDF	APH 4	80.5	80.2	96.0	81.2	208.3	228.4
		APQH 9 (C)	80.9	79.8	93.0	80.9	212.3	206.4
		APTQH 5	82.1	81.1	94.7	82.0	214.7	211.0
		HQPM 5 (C)	81.0	81.3	96.5	82.2	219.7	208.4

Mean of location	72.9	72.2	88.0	73.0	207.4	210.6
------------------	------	------	------	------	-------	-------

Normal	64.4	63.5	80.8	64.2	204.6	208.7
High	81.3	80.8	95.2	81.8	210.1	212.6
CD at 5%	2.1	1.7	2.5	4.9	NS	NS
CV (%)	2.4	1.9	2.3	5.4	5.0	10.2

100% RDF	73.0	72.4	88.1	73.0	203.6	208.9
150% RDF	72.7	71.9	87.9	72.9	211.1	212.4
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	3.0	1.5	2.6	1.8	8.7	6.9

APH 4	72.9	72.6	88.2	73.7	198.9	225.2
APQH 9 (Check)	73.0	71.6	87.4	72.8	206.7	202.8
APTQH 5	72.9	72.3	88.1	72.4	210.1	209.3
HQPM 5 (Check)	72.7	72.0	88.3	72.9	213.8	205.2
CD at 5%	NS	NS	NS	NS	10.6	10.3
CV (%)	1.5	1.7	1.7	3.5	6.1	5.8

Cont...

A-67

Planting density	Nutrient levels	Genotypes	Days to 50% tasseling		Days to 50% silking		100-seed weight (g)	
			Ambikapur	Udaipur	Ambikapur	Udaipur	Ambikapur	Udaipur
Normal	100% RDF	APH 4	55.7	53.0	55.4	57.0	26.1	32.0
		APQH 9 (C)	56.0	50.0	54.0	52.7	27.1	39.0
		APTQH 5	55.4	51.0	54.9	55.0	26.2	25.0
		HQPM 5 (C)	53.9	54.0	55.7	57.3	27.7	40.0
	150% RDF	APH 4	55.3	52.0	55.0	56.3	25.8	32.5
		APQH 9 (C)	56.5	49.0	56.4	52.0	27.4	39.5
		APTQH 5	55.4	50.0	53.4	55.0	26.9	25.2
		HQPM 5 (C)	56.3	53.0	56.8	56.0	28.2	40.5
High	100% RDF	APH 4	56.0	53.0	57.7	57.0	25.8	32.0
		APQH 9 (C)	54.6	50.0	56.1	53.3	27.2	39.0
		APTQH 5	55.9	51.0	53.5	55.3	26.6	25.0
		HQPM 5 (C)	57.1	54.0	56.7	57.0	27.8	40.0
	150% RDF	APH 4	57.1	52.0	54.9	56.0	26.6	32.5
		APQH 9 (C)	56.0	51.3	55.2	54.3	27.5	39.5
		APTQH 5	55.4	50.0	53.3	54.7	26.8	25.5
		HQPM 5 (C)	56.3	53.0	52.6	56.0	28.3	40.5

Mean of location	55.8	51.6	55.1	55.3	27.0	34.2
------------------	------	------	------	------	------	------

Normal	55.6	51.5	55.2	55.2	26.9	34.2
High	56.0	51.8	55.0	55.5	27.1	34.3
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	3.2	6.1	2.4	5.0	5.2	13.0

100% RDF	55.6	52.0	55.5	55.6	26.8	34.0
150% RDF	56.0	51.3	54.7	55.0	27.2	34.5
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	1.1	3.5	4.7	3.3	4.2	2.5

APH 4	56.0	52.5	55.7	56.6	26.1	32.3
APQH 9 (Check)	55.8	50.1	55.4	53.1	27.3	39.3
APTQH 5	55.5	50.5	53.8	55.0	26.6	25.2
HQPM 5 (Check)	55.9	53.5	55.4	56.6	28.0	40.3
CD at 5%	NS	1.4	NS	1.2	1.2	0.5
CV (%)	2.9	3.2	3.9	2.7	5.1	1.9

Cont...

A-68

Planting density	Nutrient levels	Genotypes	Net returns (Rs./ha)		B:C ratio	
			Ambikapur	Udaipur	Ambikapur	Udaipur
Normal	100% RDF	APH 4	49600	80128	1.21	3.30
		APQH 9 (C)	55582	70365	1.36	2.89
		APTQH 5	61102	54780	1.49	2.25
		HQPM 5 (C)	67630	46816	1.65	1.93
	150% RDF	APH 4	56074	81462	1.37	3.14
		APQH 9 (C)	58996	70524	1.44	2.72
		APTQH 5	62572	55737	1.53	2.15
		HQPM 5 (C)	76972	47137	1.88	1.82
High	100% RDF	APH 4	49184	99709	1.64	4.08
		APQH 9 (C)	53354	87595	1.05	3.59
		APTQH 5	59198	70649	1.14	2.89
		HQPM 5 (C)	65054	61133	1.26	2.50
	150% RDF	APH 4	56036	100025	1.39	3.84
		APQH 9 (C)	57836	87941	1.20	3.38
		APTQH 5	62102	71215	1.24	2.73
		HQPM 5 (C)	76904	61482	1.33	2.36

Mean of location	60512.3	71668.7	1.39	2.85
------------------	---------	---------	------	------

Normal	61066	63369	1.49	2.52
High	59959	79969	1.28	3.17
CD at 5%	NS	14190.4	0.2	0.6
CV (%)	15.7	15.9	10.2	16.0

100% RDF	57588	71397	1.35	2.93
150% RDF	63437	71940	1.42	2.77
CD at 5%	5136.7	NS	NS	NS
CV (%)	10.6	15.9	10.3	15.7

APH 4	52724	90331	1.40	3.59
APQH 9 (Check)	56442	79106	1.26	3.14
APTQH 5	61244	63095	1.35	2.51
HQPM 5 (Check)	71640	54142	1.53	2.15
CD at 5%	12339.4	5628.4	NS	0.2
CV (%)	24.2	9.3	24.1	9.3

Table 15: Performance of pre release genotypes of QPM under varying nutrient levels in Northern Hill Zone (NHZ).

Nutrient levels	Genotypes	Grain yield (kg/ha)		NHZ (mean)	Stover yield (kg/ha)		Plants ('000/ha)	
		Almora	Bajaura		Almora	Bajaura	Almora	Bajaura
100% RDF	HQPM 29	9680	6920	8300	19965	9610	80.7	64.7
	HQPM 5 (C)	9490	9484	9487	18793	12868	80.3	73.7
150% RDF	HQPM 29	9663	8047	8855	19965	11150	82.0	65.0
	HQPM 5 (C)	10738	10718	10728	20269	15038	81.6	79.0

Location mean	9892.6	8792.3	9342.4	19748.3	12166.6	81.2	70.6
C.D.(5%) AiBj-AiBk	3124.7	1593.0	2358.8	2483.9	1430.0	6.4	5.3
C.D.(5%) AiBk-AjBk	2465.2	3090.9	2778.0	1860.4	1411.9	8.2	7.6
F(5%)	NS	NS	NS	NS	NS	NS	NS

100% RDF	9585	8202	8893	19379	11239	80.5	69.2
150% RDF	10201	9383	9792	20117	13094	81.8	72.0

C.D. (5%) Ai-Aj	1160.8	2927.1	2044.0	653.7	1031.8	7.1	6.8
C.V. (%) Error A	4.7	13.4	9.1	1.3	3.4	3.5	3.9
F (5%)	NS	NS	NS	S	S	NS	NS

HQPM 29	9671	7484	8578	19965	10380	81.4	64.8
HQPM 5 (C)	10114	10101	10107	19531	13953	80.9	76.3

C.D. (5%) Bi-Bj	2209.5	1126.4	1668.0	1756.4	1011.2	4.5	3.8
C.V. (%) ErrorB	13.9	8.0	11.0	5.5	5.2	3.5	3.3
F (5%)	NS	S	NS	NS	S	NS	S

Cont...

A-70

Nutrient levels	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling		Days to 50% silking	
		Almora	Bajaura	Almora	Bajaura	Almora	Bajaura	Almora	Bajaura
100% RDF	HQPM 29	80.7	64.8	287.0	256.1	55.3	58.3	57.3	60.3
	HQPM 5 (C)	80.3	73.8	280.1	256.6	55.0	59.3	57.0	61.3
150% RDF	HQPM 29	82.0	65.5	301.8	256.3	55.0	58.0	57.0	60.0
	HQPM 5 (C)	82.9	79.2	290.3	260.8	55.0	59.3	57.0	61.3

Location mean	81.5	70.8	289.8	257.4	55.1	58.8	57.1	60.8
C.D.(5%) AiBj-AiBk	8.3	5.3	80.5	11.4	0.7	1.3	0.7	1.3
C.D.(5%) AiBk-AjBk	11.2	7.5	75.3	12.6	0.8	1.1	0.8	1.1
F(5%)	NS	NS	NS	NS	NS	NS	NS	NS

100% RDF	80.5	69.3	283.6	256.3	55.2	58.8	57.2	60.8
150% RDF	82.5	72.3	296.0	258.5	55.0	58.7	57.0	60.7

C.D. (5%) Ai-Aj	9.8	6.7	51.7	10.1	0.7	0.7	0.7	0.7
C.V. (%) Error A	4.9	3.8	7.2	1.6	0.5	0.5	0.5	0.5
F (5%)	NS	NS	NS	NS	NS	NS	NS	NS

HQPM 29	81.4	65.2	294.4	256.2	55.2	58.2	57.2	60.2
HQPM 5 (C)	81.6	76.5	285.2	258.7	55.0	59.3	57.0	61.3

C.D. (5%) Bi-Bj	5.9	3.7	56.9	8.0	0.5	0.9	0.5	0.9
C.V. (%) ErrorB	4.5	3.3	12.3	1.9	0.5	1.0	0.5	1.0
F (5%)	NS	S	NS	NS	NS	S	NS	S

Cont...

A-71

Nutrient levels	Genotypes	100-seed weight (g)		Net returns (Rs./ha)		B:C ratio		Turcicum Leaf Blight (0-9 scale score)
		Almora	Bajaura	Almora	Bajaura	Almora	Bajaura	Almora
100% RDF	HQPM 29	32.9	34.0	188915	63406	4.62	1.71	1.00
	HQPM 5 (C)	32.4	33.7	182842	119571	4.47	2.34	1.00
150% RDF	HQPM 29	33.5	35.3	185066	85759	4.16	1.93	2.33
	HQPM 5 (C)	32.8	34.0	206758	145004	4.65	2.58	1.00

Location mean	32.9	34.3	190895.3	103435.2	4.47	2.14	1.33
C.D.(5%) AiBj-AiBk	2.8	3.1	65659.8	31840.5	1.48	0.35	1.31
C.D.(5%) AiBk-AjBk	3.7	3.7	51602.4	63099.9	1.17	0.70	1.67
F(5%)	NS	NS	NS	NS	NS	NS	NS

100% RDF	32.7	33.8	185878	91489	4.54	2.02	1.00
150% RDF	33.2	34.7	195912	115382	4.41	2.26	1.67

C.D. (5%) Ai-Aj	3.2	3.1	23918.1	59910.0	0.55	0.66	1.43
C.V. (%) Error A	3.9	3.7	5.0	23.3	4.93	12.4	43.30
F (5%)	NS	NS	NS	NS	NS	NS	NS

HQPM 29	33.2	34.7	186991	74583	4.39	1.82	1.67
HQPM 5 (C)	32.6	33.8	194800	132288	4.56	2.46	1.00

C.D. (5%) Bi-Bj	2.0	2.2	46428.5	22514.6	1.04	0.25	0.93
C.V. (%) ErrorB	3.8	4.0	15.2	13.6	14.6	7.3	43.3
F (5%)	NS	NS	NS	S	NS	S	NS

Table 16: Performance of pre release genotypes of OPV maturity under varying planting density and nutrient levels in Northern Hill Zone (NHZ).

Planting density	Nutrient levels	Genotypes	Grain yield (kg/ha)		NHZ (mean)	Stover yield (kg/ha)		Plants ('000/ha)	
			Bajaura	Imphal		Bajaura	Imphal	Bajaura	Imphal
Normal	100% RDF	DOP 339	8529	6409	7469	12422	17052	79.0	60.5
		KDM 30	8318	4964	6641	11976	14428	78.0	56.4
		BAJAURA MAKKA 2 (C)	7580	4101	5841	11232	12162	77.0	53.1
	150% RDF	DOP 339	9298	6259	7779	13370	16729	78.7	60.1
		KDM 30	9109	4910	7010	13299	14074	75.0	55.8
		BAJAURA MAKKA 2 (C)	8159	3808	5983	11877	12906	75.7	53.2
High	100% RDF	DOP 339	8974	5983	7479	12877	16674	96.3	63.0
		KDM 30	7804	4246	6025	11735	14656	92.7	59.1
		BAJAURA MAKKA 2 (C)	7424	3745	5585	11146	13514	92.3	55.6
	150% RDF	DOP 339	9495	5742	7618	12729	17218	95.3	65.9
		KDM 30	9114	4474	6794	11896	15131	92.3	61.6
		BAJAURA MAKKA 2 (C)	8337	4057	6197	11805	13792	91.3	57.6

Mean of location	8511.7	4891.5	6701.6	12197.1	14861.1	85.3	58.5
------------------	--------	--------	---------------	---------	---------	------	------

Normal	8499	5075	6787	12363	14558	77.2	56.5
High	8525	4708	6616	12031	15164	93.4	60.5
CD at 5%	NS	328.2	328.2	NS	367.9	1.9	1.3
CV (%)	16.5	4.7	10.6	9.2	1.7	1.6	1.6

100% RDF	8105	4908	6506	11898	14747	85.9	57.9
150% RDF	8919	4875	6897	12496	14975	84.7	59.0
CD at 5%	NS	NS	NS	546.1	NS	1.1	NS
CV (%)	11.3	17.1	14.2	4.8	3.5	1.4	3.4

DOP 339	9074	6098	7586	12850	16918	87.3	62.4
KDM 30	8586	4649	6617	12227	14572	84.5	58.2
BAJAURA MAKKA 2 (Check)	7875	3928	5901	11515	13093	84.1	54.9
CD at 5%	606.1	319.7	462.9	988.6	640.4	1.2	1.2
CV (%)	8.2	7.6	7.9	9.4	5.0	1.7	2.3

Cont...

A-73

Planting density	Nutrient levels	Genotypes	Cobs ('000/ha)		Plant height (cm)		Days to 50% tasseling	
			Bajaura	Imphal	Bajaura	Imphal	Bajaura	Imphal
Normal	100% RDF	DOP 339	78.9	61.3	243.6	239.9	52.7	56.3
		KDM 30	78.2	56.1	243.8	224.8	58.3	59.7
		BAJAURA MAKKA 2 (C)	77.0	52.7	239.7	205.9	52.0	60.3
	150% RDF	DOP 339	78.0	60.9	240.9	244.5	54.0	56.7
		KDM 30	75.8	55.3	243.6	215.0	58.3	60.7
		BAJAURA MAKKA 2 (C)	75.6	52.0	241.7	200.7	52.0	61.7
High	100% RDF	DOP 339	95.7	62.3	231.4	235.0	53.3	55.7
		KDM 30	92.7	58.4	236.4	225.9	58.7	61.7
		BAJAURA MAKKA 2 (C)	92.1	54.3	227.4	209.8	52.3	62.0
	150% RDF	DOP 339	95.3	64.1	239.5	248.2	52.0	56.0
		KDM 30	92.4	59.7	254.2	226.3	57.3	62.0
		BAJAURA MAKKA 2 (C)	91.8	56.0	247.0	213.6	51.7	61.7

Mean of location	85.3	57.8	240.8	224.1	54.4	59.5
------------------	------	------	-------	-------	------	------

Normal	77.2	56.4	242.2	221.8	54.6	59.2
High	93.3	59.1	239.3	226.5	54.2	59.8
CD at 5%	1.8	2.5	NS	NS	NS	NS
CV (%)	1.5	3.0	7.4	3.0	0.5	1.0

100% RDF	85.8	57.5	237.1	223.5	54.6	59.3
150% RDF	84.8	58.0	244.5	224.7	54.2	59.8
CD at 5%	NS	NS	4.8	NS	NS	NS
CV (%)	1.5	2.1	2.2	2.9	2.0	1.7

DOP 339	87.0	62.1	238.9	241.9	53.0	56.2
KDM 30	84.8	57.4	244.5	223.0	58.2	61.0
BAJAURA MAKKA 2 (Check)	84.1	53.8	238.9	207.5	52.0	61.4
CD at 5%	1.2	1.2	NS	10.4	0.7	0.5
CV (%)	1.6	2.4	3.3	5.4	1.4	1.0

Cont...

A-74

Planting density	Nutrient levels	Genotypes	Days to 50% silking		100-seed weight (g)		Net returns (Rs./ha)	
			Bajaura	Imphal	Bajaura	Imphal	Bajaura	Imphal
Normal	100% RDF	DOP 339	54.7	59.0	29.3	31.8	99802	89375
		KDM 30	60.3	62.7	29.3	31.7	94916	60768
		BAJAURA MAKKA 2 (C)	54.0	62.7	29.3	29.6	79038	43321
	150% RDF	DOP 339	56.0	59.3	30.7	32.9	114103	83393
		KDM 30	60.3	63.0	29.3	32.3	110210	56573
		BAJAURA MAKKA 2 (C)	54.0	63.7	31.3	29.0	89078	35151
High	100% RDF	DOP 339	55.7	58.3	29.3	31.2	108996	80142
		KDM 30	60.7	64.3	28.7	31.6	83867	46300
		BAJAURA MAKKA 2 (C)	54.7	64.7	28.7	27.2	75395	36262
	150% RDF	DOP 339	54.0	59.3	30.0	32.4	116673	72863
		KDM 30	59.3	64.7	28.7	32.1	107811	47849
		BAJAURA MAKKA 2 (C)	54.0	64.7	29.3	29.4	92145	39301

Mean of location	56.5	62.2	29.5	30.9	97669.5	57608.1
------------------	------	------	------	------	---------	---------

Normal	56.6	61.7	29.9	31.2	97858	61430
High	56.4	62.7	29.1	30.6	97481	53786
CD at 5%	NS	NS	NS	NS	NS	6019.3
CV (%)	1.4	1.2	6.9	1.7	29.5	7.3

100% RDF	56.7	61.9	29.1	30.5	90336	59361
150% RDF	56.3	62.4	29.9	31.4	105003	55855
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	2.0	2.3	9.1	4.4	18.9	27.8

DOP 339	55.1	59.0	29.8	32.0	109893	81443
KDM 30	60.2	63.7	29.0	31.9	99201	52872
BAJAURA MAKKA 2 (Check)	54.2	63.9	29.7	28.8	83914	38509
CD at 5%	0.7	0.6	NS	0.9	12552.6	6182.3
CV (%)	1.4	1.2	5.1	3.3	14.9	12.4

Cont...

A-75

Planting density	Nutrient levels	Genotypes	B:C Ratio		Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row
			Bajaura	Imphal	Imphal	Imphal	Imphal	Imphal
Normal	100% RDF	DOP 339	2.12	3.22	18.1	16.2	14.3	37.3
		KDM 30	2.06	2.51	15.8	14.9	12.9	32.3
		BAJAURA MAKKA 2 (C)	1.88	2.08	14.4	14.5	12.7	28.5
	150% RDF	DOP 339	2.24	2.93	17.7	16.1	14.2	36.6
		KDM 30	2.20	2.31	15.9	14.3	12.4	31.1
		BAJAURA MAKKA 2 (C)	1.97	1.81	15.0	14.3	12.8	31.4
High	100% RDF	DOP 339	2.21	2.94	16.7	15.2	13.3	33.3
		KDM 30	1.93	2.12	15.5	14.6	12.1	29.7
		BAJAURA MAKKA 2 (C)	1.84	1.88	15.6	14.5	12.3	30.0
	150% RDF	DOP 339	2.26	2.65	17.5	15.6	13.2	33.1
		KDM 30	2.17	2.08	15.3	14.5	13.1	30.9
		BAJAURA MAKKA 2 (C)	2.00	1.89	15.3	14.7	12.9	30.9

Mean of location 2.07 2.37 16.1 15.0 13.0 32.1

Normal	2.08	2.48	16.2	15.0	13.2	32.9
High	2.07	2.26	16.0	14.9	12.8	31.3
CD at 5%	NS	0.1	NS	NS	NS	NS
CV (%)	15.4	4.3	1.1	8.0	5.9	11.0

100% RDF	2.01	2.46	16.0	15.0	12.9	31.9
150% RDF	2.14	2.28	16.1	14.9	13.1	32.3
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	9.8	16.4	7.4	7.9	7.7	4.9

DOP 339	2.21	2.93	17.5	15.8	13.8	35.1
KDM 30	2.09	2.25	15.6	14.6	12.6	31.0
BAJAURA MAKKA 2 (Check)	1.92	1.91	15.1	14.5	12.7	30.2
CD at 5%	0.1	0.1	1.0	NS	0.6	NS
CV (%)	7.7	7.1	7.3	5.1	5.4	8.3

Table 17: Performance of pre release genotypes of sweet corn under varying planting density and nutrient levels in Northern Hill Zone (NHZ).

Planting density	Nutrient levels	Genotypes	Green cob yield (kg/ha)			NHZ (mean)	Green fodder yield (kg/ha)		
			Almora	Bajaura	Imphal		Almora	Bajaura	Imphal
Normal	100% RDF	FSCH 144	16222	19614	10083	15306	23750	16011	22164
		CPSC-301	24887	21624	12005	19505	22639	14771	26907
		CP SWEET -2	24326	20376	14626	19776	29931	17653	28790
		CMVL Sweet Corn 1 (C)	19399	16410	10070	15293	22500	12065	23700
		Mishti (C)	20514	20750	12458	17907	33403	21935	25847
	150% RDF	FSCH 144	18145	20669	9874	16229	26042	18793	21743
		CPSC-301	28363	24129	12721	21737	23194	18827	26520
		CP SWEET -2	28599	23150	13471	21740	33889	23035	27267
		CMVL Sweet Corn 1 (C)	21113	17769	9773	16218	20903	18106	24292
		Mishti (C)	21945	24216	11694	19285	34306	27343	26367
High	100% RDF	FSCH 144	16483	20049	9570	15367	22917	18875	20731
		CPSC-301	25996	23119	12243	20453	23264	16737	25386
		CP SWEET -2	24912	21457	13937	20102	33750	18966	27281
		CMVL Sweet Corn 1 (C)	17049	18769	9912	15244	19514	16995	23847
		Mishti (C)	20905	21102	11957	17988	31528	25168	26101
	150% RDF	FSCH 144	21123	24314	9291	18242	25903	25740	22167
		CPSC-301	30007	25982	12806	22932	27708	21566	25308
		CP SWEET -2	26974	24395	13820	21730	34722	23696	27845
		CMVL Sweet Corn 1 (C)	23008	21941	10752	18567	24167	21710	23684
		Mishti (C)	25836	26186	13372	21798	36736	31890	26708
Mean of location			22790.2	21801.0	11721.7	18771.0	27538.2	20494.2	25132.7
Normal			22351	20871	11677	18300	27056	18854	25360
High			23229	22731	11766	19242	28021	22134	24906
CD at 5%			NS	904.0	NS	904.0	NS	432.2	NS
CV (%)			8.2	3.7	11.9	7.9	21.8	1.9	8.9
100% RDF			21069	20327	11686	17694	26319	17918	25075
150% RDF			24511	23275	11757	19848	28757	23071	25190
CD at 5%			1192.3	891.7	NS	1042.0	2263.9	931.7	NS
CV (%)			7.3	5.7	12.9	8.6	11.5	6.3	10.1
FSCH 144			17993	21161	9704	16286	24653	19855	21701
CPSC-301			27313	23713	12444	21157	24201	17975	26030
CP SWEET -2			26202	22344	13963	20837	33073	20838	27796
CMVL Sweet Corn 1 (Check)			20142	18722	10127	16330	21771	17219	23881
Mishti (Check)			22300	23063	12370	19245	33993	26584	26256
CD at 5%			2039.4	1202.5	830.7	1357.5	1562.9	1496.3	2011.5
CV (%)			10.8	6.6	8.5	8.6	6.8	8.8	9.6

Cont...

Planting density	Nutrient levels	Genotypes	Plants ('000/ha)			Cobs ('000/ha)		
			Almora	Bajaura	Imphal	Almora	Bajaura	Imphal
Normal	100% RDF	FSCH 144	80.6	78.3	54.9	84.7	77.0	57.5
		CPSC-301	83.3	76.3	61.2	95.1	74.4	63.4
		CP SWEET -2	81.9	81.3	62.7	92.4	79.3	64.1
		CMVL Sweet Corn 1 (C)	82.6	75.7	55.4	88.9	74.0	57.4
		Mishti (C)	81.9	78.7	61.0	83.3	76.0	63.1
	150% RDF	FSCH 144	81.3	78.3	55.9	85.4	76.3	57.1
		CPSC-301	81.9	79.3	60.7	97.2	77.2	61.7
		CP SWEET -2	82.6	81.7	62.4	106.9	78.0	64.4
		CMVL Sweet Corn 1 (C)	81.9	76.0	54.4	94.4	74.9	55.9
		Mishti (C)	81.9	81.0	61.7	86.1	76.9	61.1
High	100% RDF	FSCH 144	101.4	92.7	57.8	101.4	84.5	57.9
		CPSC-301	101.4	92.7	65.4	104.9	83.7	64.1
		CP SWEET -2	104.2	96.0	68.6	108.3	88.4	67.2
		CMVL Sweet Corn 1 (C)	102.8	92.3	56.6	104.2	83.2	59.1
		Mishti (C)	103.5	92.7	67.5	103.5	83.2	66.7
	150% RDF	FSCH 144	100.7	93.0	58.4	102.1	85.8	58.7
		CPSC-301	102.1	93.3	66.3	104.9	86.9	65.7
		CP SWEET -2	102.1	96.0	67.2	104.9	91.6	69.6
		CMVL Sweet Corn 1 (C)	100.0	92.3	58.0	104.9	89.4	59.1
		Mishti (C)	102.1	93.3	65.7	102.1	87.8	65.4
Mean of location			92.0	86.1	61.1	97.8	81.4	62.0
Normal			82.0	78.7	59.0	91.5	76.4	60.6
High			102.0	93.4	63.2	104.1	86.5	63.3
CD at 5%			2.4	2.5	NS	4.5	2.4	NS
CV (%)			2.3	2.7	8.3	4.1	2.6	6.3
100% RDF			92.4	85.7	61.1	96.7	80.4	62.0
150% RDF			91.7	86.4	61.1	98.9	82.5	61.9
CD at 5%			NS	NS	NS	NS	1.4	NS
CV (%)			1.5	2.6	5.5	4.6	2.5	7.9
FSCH 144			91.0	85.6	56.8	93.4	80.9	57.8
CPSC-301			92.2	85.4	63.4	100.5	80.6	63.7
CP SWEET -2			92.7	88.8	65.2	103.1	84.3	66.3
CMVL Sweet Corn 1 (Check)			91.8	84.1	56.1	98.1	80.4	57.9
Mishti (Check)			92.4	86.4	64.0	93.8	81.0	64.1
CD at 5%			NS	1.4	2.7	4.1	1.2	3.6
CV (%)			1.6	2.0	5.3	5.1	1.8	7.1

Cont...

A-78

Planting density	Nutrient levels	Genotypes	Plant height (cm)			Days to 50% tasseling		
			Almora	Bajaura	Imphal	Almora	Bajaura	Imphal
Normal	100% RDF	FSCH 144	206.2	169.3	205.3	54.3	57.0	54.0
		CPSC-301	216.7	184.5	221.7	52.3	55.0	51.3
		CP SWEET -2	240.4	196.4	234.0	56.0	58.0	50.3
		CMVL Sweet Corn 1 (C)	220.9	180.6	215.7	51.0	52.0	53.0
		Mishti (C)	233.5	191.6	218.7	54.0	58.3	51.0
	150% RDF	FSCH 144	200.9	160.3	199.7	54.7	57.0	53.7
		CPSC-301	214.6	196.9	224.3	52.3	53.7	51.7
		CP SWEET -2	234.4	213.9	236.2	56.3	56.3	51.0
		CMVL Sweet Corn 1 (C)	204.8	182.5	209.5	50.3	51.0	53.7
		Mishti (C)	224.6	204.8	228.0	55.0	55.7	51.0
High	100% RDF	FSCH 144	193.8	158.3	201.0	55.3	58.0	53.7
		CPSC-301	212.6	186.2	222.0	52.7	55.0	51.7
		CP SWEET -2	232.6	191.0	231.0	56.3	59.3	50.7
		CMVL Sweet Corn 1 (C)	204.3	186.7	208.3	51.3	51.0	53.7
		Mishti (C)	226.7	183.4	220.3	55.3	59.3	52.0
	150% RDF	FSCH 144	200.4	165.1	196.7	54.0	58.7	54.0
		CPSC-301	227.5	196.9	224.7	52.0	54.3	51.7
		CP SWEET -2	246.0	204.5	228.0	55.3	58.3	51.3
		CMVL Sweet Corn 1 (C)	216.9	184.7	204.7	50.3	51.3	53.3
		Mishti (C)	234.4	200.1	223.0	54.3	56.7	51.7
Mean of location			219.6	186.9	217.6	53.7	55.8	52.2
Normal			219.7	188.1	219.3	53.6	55.4	52.1
High			219.5	185.7	216.0	53.7	56.2	52.4
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			9.9	17.6	6.5	3.2	8.3	1.3
100% RDF			218.8	182.8	217.8	53.9	56.3	52.1
150% RDF			220.5	191.0	217.5	53.5	55.3	52.3
CD at 5%			NS	4.0	NS	NS	0.7	NS
CV (%)			4.9	3.0	5.3	1.2	1.7	2.0
FSCH 144			200.3	163.3	200.7	54.6	57.7	53.8
CPSC-301			217.9	191.1	223.2	52.3	54.5	51.6
CP SWEET -2			238.4	201.4	232.3	56.0	58.0	50.8
CMVL Sweet Corn 1 (Check)			211.7	183.6	209.5	50.8	51.3	53.4
Mishti (Check)			229.8	195.0	222.5	54.7	57.5	51.4
CD at 5%			5.6	4.4	10.3	0.6	0.9	0.7
CV (%)			3.1	2.8	5.7	1.2	2.0	1.5

Cont...

Planting density	Nutrient levels	Genotypes	Days to 50% silking			Brix (%) at harvest	TSS (%)	
			Almora	Bajaura	Imphal	Almora	Bajaura	Imphal
Normal	100% RDF	FSCH 144	56.3	59.0	57.0	19.2	17.1	14.3
		CPSC-301	54.3	57.3	54.0	19.0	17.4	14.3
		CP SWEET -2	58.0	60.3	52.7	18.3	17.7	15.0
		CMVL Sweet Corn 1 (C)	53.0	54.0	56.3	18.8	17.7	13.7
		Mishti (C)	56.0	60.3	53.7	19.0	18.5	14.3
	150% RDF	FSCH 144	56.7	59.0	57.0	19.2	16.7	14.7
		CPSC-301	54.3	55.7	53.7	19.5	16.4	13.7
		CP SWEET -2	58.3	58.7	53.3	19.6	16.1	14.7
		CMVL Sweet Corn 1 (C)	52.3	53.0	56.3	20.4	17.1	14.3
		Mishti (C)	57.0	57.7	53.7	20.0	18.1	14.0
High	100% RDF	FSCH 144	57.3	60.0	57.3	18.8	16.7	14.3
		CPSC-301	54.7	57.3	54.7	19.6	17.9	14.3
		CP SWEET -2	58.3	61.7	53.3	19.3	18.1	15.7
		CMVL Sweet Corn 1 (C)	53.3	53.0	57.0	20.1	17.5	14.0
		Mishti (C)	57.3	61.3	54.3	20.2	18.3	13.7
	150% RDF	FSCH 144	56.0	60.7	57.0	19.3	15.5	14.3
		CPSC-301	54.0	56.3	54.3	21.3	17.0	13.7
		CP SWEET -2	57.3	60.3	53.3	19.3	16.9	14.7
		CMVL Sweet Corn 1 (C)	52.3	53.3	56.0	18.4	16.7	14.3
		Mishti (C)	56.3	59.0	54.7	19.5	17.1	14.0
Mean of location			55.7	57.9	55.0	19.4	17.2	14.3
Normal			55.6	57.5	54.8	19.3	17.3	14.3
High			55.7	58.3	55.2	19.6	17.2	14.3
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			3.0	8.4	1.4	3.2	6.5	1.6
100% RDF			55.9	58.4	55.0	19.2	17.7	14.4
150% RDF			55.5	57.4	54.9	19.6	16.7	14.2
CD at 5%			NS	0.7	NS	NS	NS	NS
CV (%)			1.1	1.7	2.0	7.0	12.6	7.6
FSCH 144			56.6	59.7	57.1	19.1	16.5	14.4
CPSC-301			54.3	56.7	54.2	19.8	17.2	14.0
CP SWEET -2			58.0	60.3	53.2	19.1	17.2	15.0
CMVL Sweet Corn 1 (Check)			52.8	53.3	56.4	19.4	17.2	14.1
Mishti (Check)			56.7	59.6	54.1	19.7	18.0	14.0
CD at 5%			0.6	0.9	0.8	NS	0.8	0.5
CV (%)			1.2	1.9	1.6	6.8	5.3	4.1

Cont...

A-80

Planting density	Nutrient levels	Genotypes	Net returns (Rs./ha)			B:C ratio		
			Almora	Bajaura	Imphal	Almora	Bajaura	Imphal
Normal	100% RDF	FSCH 144	397465	125540	149385	7.15	2.48	3.86
		CPSC-301	611857	144524	188067	11.01	2.70	4.60
		CP SWEET -2	612413	134636	238557	11.02	2.58	5.56
		CMVL Sweet Corn 1 (C)	474392	89952	149897	8.53	2.06	3.87
		Mishti (C)	524062	142233	196110	9.43	2.67	4.75
	150% RDF	FSCH 144	446595	136096	142216	7.55	2.56	3.57
		CPSC-301	696335	170720	198409	11.78	2.95	4.59
		CP SWEET -2	723627	164721	212958	12.24	2.88	4.85
		CMVL Sweet Corn 1 (C)	510502	106471	141592	8.64	2.22	3.56
		Mishti (C)	558123	179257	178922	9.44	3.05	4.24
High	100% RDF	FSCH 144	399926	132065	137963	6.90	2.55	3.59
		CPSC-301	638433	160845	190818	11.01	2.88	4.58
		CP SWEET -2	632304	146228	223777	10.90	2.71	5.20
		CMVL Sweet Corn 1 (C)	407270	117582	145991	7.02	2.38	3.74
		Mishti (C)	527686	148265	185770	9.10	2.74	4.49
	150% RDF	FSCH 144	518362	178394	130403	8.43	3.03	3.32
		CPSC-301	744074	191315	198421	12.10	3.18	4.53
		CP SWEET -2	682268	177366	218845	11.09	3.02	4.89
		CMVL Sweet Corn 1 (C)	562008	151037	158788	9.14	2.72	3.82
		Mishti (C)	657859	202647	209806	10.69	3.31	4.73
Mean of location			566278.0	149994.8	179834.7	9.66	2.73	4.32
Normal			555537	139415	179611	9.68	2.61	4.35
High			577019	160574	180058	9.64	2.85	4.29
CD at 5%			NS	9318.8	NS	NS	0.1	NS
CV (%)			8.2	5.6	14.8	7.6	3.5	11.8
100% RDF			522581	134187	180633	9.21	2.57	4.42
150% RDF			609975	165802	179036	10.11	2.89	4.21
CD at 5%			33926.7	9435.0	NS	0.6	0.1	NS
CV (%)			8.4	8.8	16.5	8.9	5.6	12.8
FSCH 144			440587	143024	139992	7.51	2.65	3.58
CPSC-301			672675	166851	193929	11.47	2.93	4.57
CP SWEET -2			662653	155738	223534	11.31	2.80	5.13
CMVL Sweet Corn 1 (Check)			488543	116261	149067	8.33	2.34	3.75
Mishti (Check)			566933	168101	192652	9.67	2.94	4.55
CD at 5%			52105.5	12639.0	15696.8	0.9	0.1	0.3
CV (%)			11.1	10.1	10.5	11.0	6.5	8.0

Cont...

A-81

Planting density	Nutrient levels	Genotypes	Cob length (cm)	Cob girth (cm)	Grain rows/cob	Grains/row	Turcicum Leaf Blight (0-9 scale score)
			Imphal	Imphal	Imphal	Imphal	Almora
Normal	100% RDF	FSCH 144	15.5	15.8	13.8	27.8	1.00
		CPSC-301	17.1	17.3	15.8	32.1	2.00
		CP SWEET -2	18.3	17.9	16.3	36.5	1.00
		CMVL Sweet Corn 1 (C)	15.1	14.8	14.1	26.7	1.67
		Mishti (C)	17.3	16.5	15.9	30.3	1.33
	150% RDF	FSCH 144	14.3	14.7	13.5	27.3	2.33
		CPSC-301	17.7	17.3	15.9	30.1	1.00
		CP SWEET -2	18.7	17.6	16.2	35.5	1.00
		CMVL Sweet Corn 1 (C)	13.7	15.0	14.0	25.9	1.00
		Mishti (C)	17.3	16.3	15.7	34.5	1.00
High	100% RDF	FSCH 144	14.0	15.2	14.1	26.3	2.00
		CPSC-301	16.7	16.8	15.6	30.7	1.67
		CP SWEET -2	17.9	16.9	16.5	32.7	1.33
		CMVL Sweet Corn 1 (C)	14.1	14.7	14.7	27.1	1.00
		Mishti (C)	17.5	16.3	15.9	31.8	1.00
	150% RDF	FSCH 144	13.8	14.9	13.7	28.0	1.33
		CPSC-301	15.9	15.7	15.8	30.1	1.00
		CP SWEET -2	16.7	17.9	16.2	32.9	2.33
		CMVL Sweet Corn 1 (C)	14.3	14.4	14.3	26.5	1.67
		Mishti (C)	15.6	16.0	15.5	30.0	1.00
Mean of location			16.1	16.1	15.2	30.1	1.38
Normal			16.5	16.3	15.1	30.7	1.33
High			15.7	15.9	15.3	29.6	1.43
CD at 5%			NS	NS	NS	NS	NS
CV (%)			12.0	4.8	2.9	5.8	42.8
100% RDF			16.4	16.2	15.3	30.2	1.40
150% RDF			15.8	16.0	15.1	30.1	1.37
CD at 5%			NS	NS	NS	NS	NS
CV (%)			18.0	10.8	9.5	9.5	13.2
FSCH 144			14.4	15.2	13.8	27.4	1.67
CPSC-301			16.8	16.8	15.8	30.8	1.42
CP SWEET -2			17.9	17.6	16.3	34.4	1.42
CMVL Sweet Corn 1 (Check)			14.3	14.7	14.3	26.6	1.33
Mishti (Check)			16.9	16.3	15.8	31.6	1.08
CD at 5%			1.7	1.2	1.3	2.5	NS
CV (%)			12.9	8.7	10.0	10.1	48.3

Table 18: Performance of pre release genotypes of sweet corn under varying planting density and nutrient levels in North East Plain Zone (NEPZ).

Planting density	Nutrient levels	Genotypes	Green cob yield (kg/ha)		NEPZ (mean)	Green fodder yield (kg/ha)	
			Bhubaneswar	Kalyani		Bhubaneswar	Kalyani
Normal	100% RDF	ISCH 1901	16370	11368	13869	28208	14271
		Misthi (C)	15526	9966	12746	26704	12918
		CMVL Sweet Corn 1 (C)	15933	9580	12757	27405	12453
	150% RDF	ISCH 1901	16937	12051	14494	29317	14985
		Misthi (C)	15718	11004	13361	27036	13918
		CMVL Sweet Corn 1 (C)	16326	10642	13484	28081	13598
High	100% RDF	ISCH 1901	19194	13218	16206	33460	16151
		Misthi (C)	18185	12041	15113	31278	14925
		CMVL Sweet Corn 1 (C)	18975	11340	15158	32637	14312
	150% RDF	ISCH 1901	20386	14154	17270	35813	17040
		Misthi (C)	18579	13082	15830	31956	16007
		CMVL Sweet Corn 1 (C)	19914	12379	16147	34252	15390

Mean of location	17670.3	11735.5	14702.9	30512.2	14664.1
------------------	---------	---------	----------------	---------	---------

Normal	16135	10769	13452	27792	13691
High	19206	12702	15954	33233	15638
CD at 5%	1228.6	1016.3	1122.5	2408.8	1025.4
CV (%)	4.8	6.0	5.4	5.5	4.9

100% RDF	17364	11252	14308	29949	14172
150% RDF	17977	12219	15098	31076	15156
CD at 5%	608.0	613.1	610.6	NS	590.4
CV (%)	3.7	5.6	4.7	5.1	4.4

ISCH 1901	18222	12698	15460	31699	15612
Misthi (Check)	17002	11523	14263	29243	14442
CMVL Sweet Corn 1 (Check)	17787	10985	14386	30594	13938
CD at 5%	913.2	1055.4	984.3	1731.4	1038.9
CV (%)	6.0	10.4	8.2	6.6	8.2

Cont...

A-83

Planting density	Nutrient levels	Genotypes	Plants ('000/ha)		Cobs ('000/ha)	Plant height (cm)	
			Bhubaneswar	Kalyani	Kalyani	Bhubaneswar	Kalyani
Normal	100% RDF	ISCH 1901	81.9	84.3	82.3	168.0	157.0
		Misthi (C)	78.9	80.0	79.3	159.5	173.7
		CMVL Sweet Corn 1 (C)	79.6	78.3	77.7	158.7	179.0
	150% RDF	ISCH 1901	82.2	86.0	82.0	161.0	166.5
		Misthi (C)	78.9	83.0	82.0	165.7	167.6
		CMVL Sweet Corn 1 (C)	77.0	82.3	81.7	158.3	176.0
High	100% RDF	ISCH 1901	97.4	96.0	95.3	166.2	163.1
		Misthi (C)	93.7	90.3	89.7	155.6	173.0
		CMVL Sweet Corn 1 (C)	94.8	91.0	90.0	152.8	172.4
	150% RDF	ISCH 1901	95.9	100.0	99.3	168.3	177.5
		Misthi (C)	94.4	98.0	97.7	164.5	178.6
		CMVL Sweet Corn 1 (C)	94.8	96.7	96.0	158.5	165.6

Mean of location	87.5	88.8	87.8	161.4	170.8
------------------	------	------	------	-------	-------

Normal	79.8	82.3	80.8	161.9	170.0
High	95.2	95.3	94.7	161.0	171.7
CD at 5%	2.5	3.8	3.0	NS	NS
CV (%)	2.0	3.0	2.4	2.9	2.9

100% RDF	87.7	86.7	85.7	160.1	169.7
150% RDF	87.2	91.0	89.8	162.7	172.0
CD at 5%	NS	2.8	1.3	NS	NS
CV (%)	2.1	3.4	1.7	3.0	5.3

ISCH 1901	89.4	91.6	89.8	165.9	166.0
Misthi (Check)	86.5	87.8	87.2	161.3	173.2
CMVL Sweet Corn 1 (Check)	86.6	87.1	86.3	157.1	173.3
CD at 5%	1.6	2.6	2.7	5.6	NS
CV (%)	2.1	3.3	3.5	4.0	4.5

Cont...

A-84

Planting density	Nutrient levels	Genotypes	Ear height (cm)	Days to 50% tasseling		Days to 50% silking	
			Bhubaneswar	Bhubaneswar	Kalyani	Bhubaneswar	Kalyani
Normal	100% RDF	ISCH 1901	70.4	51.0	49.0	53.0	53.0
		Misthi (C)	71.8	52.7	52.0	54.0	55.0
		CMVL Sweet Corn 1 (C)	56.3	47.3	50.0	49.0	52.7
	150% RDF	ISCH 1901	76.5	51.3	49.7	52.7	52.7
		Misthi (C)	74.9	53.0	51.3	54.3	54.3
		CMVL Sweet Corn 1 (C)	65.0	45.7	49.7	47.3	52.7
High	100% RDF	ISCH 1901	73.6	51.0	50.0	53.0	53.0
		Misthi (C)	76.0	53.0	50.3	55.0	53.3
		CMVL Sweet Corn 1 (C)	57.0	47.7	51.3	49.0	54.0
	150% RDF	ISCH 1901	75.9	50.3	49.7	52.0	52.7
		Misthi (C)	75.0	52.0	50.0	53.7	53.0
		CMVL Sweet Corn 1 (C)	63.2	45.7	50.0	47.3	52.7

Mean of location	69.6	50.1	50.3	51.7	53.3
------------------	------	------	------	------	------

Normal	69.2	50.2	50.3	51.7	53.4
High	70.1	49.9	50.2	51.7	53.1
CD at 5%	0.9	NS	NS	NS	NS
CV (%)	0.9	1.8	1.7	2.6	3.0

100% RDF	67.5	50.4	50.4	52.2	53.5
150% RDF	71.8	49.7	50.1	51.2	53.0
CD at 5%	2.6	0.6	NS	0.6	NS
CV (%)	4.1	1.3	2.8	1.3	3.4

ISCH 1901	74.1	50.9	49.6	52.7	52.8
Misthi (Check)	74.4	52.7	50.9	54.3	53.9
CMVL Sweet Corn 1 (Check)	60.4	46.6	50.3	48.2	53.0
CD at 5%	1.6	0.7	NS	0.8	NS
CV (%)	2.7	1.6	3.0	1.8	2.6

Cont...

A-85

Planting density	Nutrient levels	Genotypes	Net returns (Rs./ha)		B:C ratio		TSS value (%)
			Bhubaneswar	Kalyani	Bhubaneswar	Kalyani	Kalyani
Normal	100% RDF	ISCH 1901	235407	356434	2.56	6.09	16.2
		Misthi (C)	218513	304634	2.38	5.35	15.6
		CMVL Sweet Corn 1 (C)	226667	290218	2.46	5.15	15.5
	150% RDF	ISCH 1901	243733	378767	2.57	6.19	16.8
		Misthi (C)	219367	339964	2.31	5.66	16.6
		CMVL Sweet Corn 1 (C)	231520	326665	2.44	5.47	15.6
High	100% RDF	ISCH 1901	291880	424933	3.17	7.07	16.8
		Misthi (C)	271700	381297	2.95	6.45	16.2
		CMVL Sweet Corn 1 (C)	287500	355523	3.13	6.08	15.9
	150% RDF	ISCH 1901	312720	456482	3.29	7.25	17.9
		Misthi (C)	276580	416872	2.91	6.71	17.4
		CMVL Sweet Corn 1 (C)	303280	391046	3.19	6.36	16.2

Mean of location 259905.6 368569.6 2.78 6.15 16.4

Normal	229201	332780	2.45	5.65	16.0
High	290610	404359	3.11	6.65	16.7
CD at 5%	24572.3	37622.9	0.3	0.5	0.7
CV (%)	6.6	7.1	6.6	6.0	2.9

100% RDF	255278	352173	2.77	6.03	16.0
150% RDF	264533	384966	2.78	6.27	16.7
CD at 5%	NS	22634.8	NS	NS	NS
CV (%)	5.1	6.6	4.9	5.5	5.1

ISCH 1901	270935	404154	2.90	6.65	16.9
Misthi (Check)	246540	360692	2.64	6.04	16.4
CMVL Sweet Corn 1 (Check)	262242	340863	2.80	5.76	15.8
CD at 5%	18264.5	39016.8	0.2	0.5	0.5
CV (%)	8.1	12.2	8.1	10.2	3.9

Table 19: Performance of pre release genotypes of baby corn under varying planting density and nutrient levels in North West Plain Zone (NWPZ).

Planting density	Nutrient levels	Genotypes	Baby corn yield with husk (kg/ha)		NWPZ (mean)	Baby corn yield without husk (kg/ha)		NWPZ (mean)
			Karnal	Pantnagar		Karnal	Pantnagar	
Normal	100% RDF	IMHSB 19KB-2	6935	11844	9389	2379	2619	2499
		HM 4 (C)	7174	11282	9228	2528	2309	2418
		CMVL 2 (C)	6498	12456	9477	1931	2528	2229
	150% RDF	IMHSB 19KB-2	7144	12797	9971	2517	2792	2655
		HM 4 (C)	7462	13458	10460	2762	2740	2751
		CMVL 2 (C)	6550	13602	10076	2055	2751	2403
High	100% RDF	IMHSB 19KB-2	7322	13448	10385	2711	3005	2858
		HM 4 (C)	7612	13774	10693	2872	2878	2875
		CMVL 2 (C)	6884	15260	11072	2192	3128	2660
	150% RDF	IMHSB 19KB-2	7560	14306	10933	2840	3228	3034
		HM 4 (C)	7906	15142	11524	3067	3058	3063
		CMVL 2 (C)	6948	16976	11962	2376	3408	2892
Mean of location			7166.3	13695.5	10430.9	2519.3	2870.3	2694.8
Normal			6961	12573	9767	2362	2623	2493
High			7372	14818	11095	2676	3117	2897
CD at 5%			75.0	2195.2	1135.1	25.4	357.9	191.6
CV (%)			0.7	11.2	6.0	0.7	8.7	4.7
100% RDF			7071	13011	10041	2436	2744	2590
150% RDF			7262	14380	10821	2603	2996	2800
CD at 5%			151.8	360.2	256.0	46.3	61.4	53.9
CV (%)			2.3	2.8	2.6	2.0	2.3	2.1
IMHSB 19KB-2			7240	13099	10170	2612	2911	2761
HM 4 (Check)			7539	13414	10476	2807	2746	2777
CMVL 2 (Check)			6720	14573	10647	2139	2954	2546
CD at 5%			270.8	750.0	510.4	190.0	NS	190.0
CV (%)			4.4	6.3	5.3	8.7	7.0	7.9

Cont...

A-87

Planting density	Nutrient levels	Genotypes	Green fodder yield (kg/ha)		Plants ('000/ha)		Plant height (cm)	
			Karnal	Pantnagar	Karnal	Pantnagar	Karnal	Pantnagar
Normal	100% RDF	IMHSB 19KB-2	33234	37078	81.3	109.1	160.0	180.2
		HM 4 (C)	21325	31468	81.6	109.1	140.0	163.5
		CMVL 2 (C)	17341	34535	81.3	111.1	130.0	168.1
	150% RDF	IMHSB 19KB-2	36276	41807	80.2	107.0	160.0	182.8
		HM 4 (C)	21675	37701	80.9	110.1	152.3	166.3
		CMVL 2 (C)	17868	38169	81.3	109.1	142.3	169.7
High	100% RDF	IMHSB 19KB-2	28449	44209	106.3	137.0	172.0	183.8
		HM 4 (C)	18312	38469	105.2	136.0	152.0	164.4
		CMVL 2 (C)	13234	41127	105.9	138.0	142.0	169.6
	150% RDF	IMHSB 19KB-2	30269	47029	105.2	138.0	172.0	188.0
		HM 4 (C)	20972	40912	104.9	134.9	164.3	167.0
		CMVL 2 (C)	14992	44260	104.9	136.0	154.3	170.1
Mean of location			22828.8	39730.4	93.2	122.9	153.4	172.8
Normal			24620	36793	81.1	109.2	147.4	171.8
High			21038	42668	105.4	136.6	159.4	173.8
CD at 5%			1372.5	NS	1.7	1.2	4.1	NS
CV (%)			4.2	10.5	1.3	0.7	1.9	3.8
100% RDF			21982	37814	93.6	123.3	149.3	171.6
150% RDF			23675	41646	92.9	122.5	157.6	174.0
CD at 5%			1455.0	3332.4	NS	NS	4.1	NS
CV (%)			6.9	9.1	0.8	1.9	2.9	4.5
IMHSB 19KB-2			32057	42531	93.2	122.7	166.0	183.7
HM 4 (Check)			20571	37138	93.1	122.5	152.2	165.3
CMVL 2 (Check)			15859	39523	93.3	123.5	142.2	169.4
CD at 5%			1344.0	2398.3	NS	NS	9.4	6.9
CV (%)			6.8	7.0	1.1	2.0	7.1	4.6

Cont...

A-88

Planting density	Nutrient levels	Genotypes	Days to first picking		Net returns (Rs./ha)		B:C ratio	
			Karnal	Pantnagar	Karnal	Pantnagar	Karnal	Pantnagar
Normal	100% RDF	IMHSB 19KB-2	54.0	54.0	78184	161845	2.71	3.39
		HM 4 (C)	50.3	52.0	85595	137011	2.87	2.87
		CMVL 2 (C)	49.7	52.0	55835	154520	2.22	3.24
	150% RDF	IMHSB 19KB-2	53.3	54.0	81425	168542	2.65	3.07
		HM 4 (C)	49.3	52.0	93638	164345	2.89	3.00
		CMVL 2 (C)	55.3	52.0	58361	165250	2.18	3.01
High	100% RDF	IMHSB 19KB-2	52.3	54.0	94711	190451	3.07	3.81
		HM 4 (C)	50.7	52.0	102743	180254	3.24	3.61
		CMVL 2 (C)	50.7	52.0	68862	200313	2.50	4.01
	150% RDF	IMHSB 19KB-2	51.3	54.0	97526	201122	2.97	3.52
		HM 4 (C)	49.7	52.0	108826	187591	3.20	3.29
		CMVL 2 (C)	49.7	52.0	74396	215546	2.51	3.78

Mean of location	51.4	52.7	83341.8	177232.5	2.75	3.38
------------------	------	------	---------	----------	------	------

Normal	52.0	52.7	75506	158586	2.59	3.10
High	50.7	52.7	91177	195879	2.91	3.67

CD at 5%	1.2	NS	1265.2	28633.4	0.03	0.55
----------	-----	----	--------	---------	------	------

CV (%)	1.6	1.9	1.1	11.3	0.7	11.3
--------	-----	-----	-----	------	-----	------

100% RDF	51.3	52.7	80988	170732	2.77	3.49
150% RDF	51.4	52.7	85695	183733	2.73	3.28

CD at 5%	NS	NS	2307.8	4914.2	NS	0.08
----------	----	----	--------	--------	----	------

CV (%)	1.1	2.2	3.0	3.0	1.8	2.6
--------	-----	-----	-----	-----	-----	-----

IMHSB 19KB-2	52.8	54.0	87961	180490	2.85	3.45
HM 4 (Check)	50.0	52.0	97700	167300	3.05	3.19
CMVL 2 (Check)	51.3	52.0	64363	183907	2.35	3.51

CD at 5%	0.4	0.9	9470.8	NS	0.20	NS
----------	-----	-----	--------	----	------	----

CV (%)	1.0	2.0	13.1	9.1	8.3	9.2
--------	-----	-----	------	-----	-----	-----

Table 20: Performance of pre release genotypes of baby corn under varying planting density and nutrient levels in North East Plain Zone (NEPZ).

Planting density	Nutrient levels	Genotypes	Babycorn yield with husk (kg/ha)		NEPZ (mean)	Babycorn yield without husk (kg/ha)		NEPZ (mean)
			Dholi	Ranchi		Dholi	Ranchi	
Normal	100% RDF	ABSH4-2	7967	12445	10206	2329	1838	2084
		HM 4 (C)	8177	9514	8846	2797	1348	2073
		CMVL 2 (C)	8189	11067	9628	2706	1596	2151
	150% RDF	ABSH4-2	8225	11029	9627	2436	1613	2025
		HM 4 (C)	8440	10589	9514	2905	1491	2198
		CMVL 2 (C)	8453	12981	10717	2822	1857	2340
High	100% RDF	ABSH4-2	9281	11501	10391	2632	1746	2189
		HM 4 (C)	9658	9690	9674	3306	1403	2354
		CMVL 2 (C)	9506	13863	11685	2970	2045	2508
	150% RDF	ABSH4-2	9638	12770	11204	2766	1808	2287
		HM 4 (C)	10037	11107	10572	3462	1710	2586
		CMVL 2 (C)	9891	14412	12151	3119	2103	2611

Mean of location	8955.0	11747.4	10351.2	2854.3	1713.1	2283.7
------------------	--------	---------	----------------	--------	--------	---------------

Normal	8242	11271	9756	2666	1624	2145
High	9668	12224	10946	3043	1802	2422
CD at 5%	571.3	NS	571.3	108.7	42.7	75.7
CV (%)	4.4	10.2	7.3	2.7	1.7	2.2

100% RDF	8796	11347	10072	2790	1663	2226
150% RDF	9114	12148	10631	2918	1764	2341
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	4.2	11.9	8.0	5.6	14.4	10.0

ABSH4-2	8778	11936	10357	2541	1751	2146
HM 4 (Check)	9078	10225	9651	3118	1488	2303
CMVL 2 (Check)	9010	13081	11045	2905	1900	2402
CD at 5%	NS	943.1	943.1	177.1	180.7	178.9
CV (%)	4.7	9.3	7.0	7.2	12.2	9.7

Cont...

A-90

Planting density	Nutrient levels	Genotypes	Green fodder yield (kg/ha)	Plants ('000/ha)		Cobs ('000/ha)	Plant height (cm)	
			Ranchi	Dholi	Ranchi	Dholi	Dholi	Ranchi
Normal	100% RDF	ABSH4-2	22148	69.7	105.1	70.2	167.0	156.5
		HM 4 (C)	19869	73.0	104.6	73.3	156.8	149.7
		CMVL 2 (C)	23608	71.0	107.2	71.9	164.0	144.8
	150% RDF	ABSH4-2	23077	71.7	104.6	71.9	169.9	155.9
		HM 4 (C)	22053	73.0	104.6	73.5	155.4	158.6
		CMVL 2 (C)	26984	72.7	107.7	72.5	165.9	152.3
High	100% RDF	ABSH4-2	28719	77.0	125.6	77.0	182.7	155.6
		HM 4 (C)	22177	77.7	127.2	78.2	164.0	159.7
		CMVL 2 (C)	27038	78.3	125.1	78.7	168.3	142.8
	150% RDF	ABSH4-2	28500	77.7	124.6	77.6	187.8	155.7
		HM 4 (C)	24738	78.7	125.6	78.5	169.0	162.2
		CMVL 2 (C)	30564	79.0	128.2	79.0	172.5	148.2

Mean of location	24956.2	74.9	115.9	75.2	168.6	153.5
------------------	---------	------	-------	------	-------	-------

Normal	22956	71.8	105.6	72.2	163.2	153.0
High	26956	78.1	126.1	78.2	174.0	154.0
CD at 5%	2079.0	4.3	15.4	4.6	NS	NS
CV (%)	5.8	4.0	9.3	4.3	8.9	4.2

100% RDF	23927	74.4	115.8	74.9	167.1	151.5
150% RDF	25986	75.4	115.9	75.5	170.1	155.5
CD at 5%	NS	NS	NS	NS	NS	NS
CV (%)	13.6	2.0	4.0	2.1	8.0	4.2

ABSH4-2	25611	74.0	115.0	74.2	176.9	155.9
HM 4 (Check)	22209	75.6	115.5	75.9	161.3	157.5
CMVL 2 (Check)	27048	75.3	117.1	75.5	167.7	147.0
CD at 5%	2511.9	NS	NS	NS	5.9	7.0
CV (%)	11.6	3.3	5.5	3.3	4.1	5.3

Cont...

A-91

Planting density	Nutrient levels	Genotypes	Ear height (cm)	Days to 50% tasseling	Days to 50% silking	Days to 1 st picking	Number of picking
			Dholi	Dholi	Dholi	Ranchi	Ranchi
Normal	100% RDF	ABSH4-2	64.0	50.3	52.9	53.0	7.3
		HM 4 (C)	62.0	51.0	54.0	53.3	8.0
		CMVL 2 (C)	64.0	51.2	53.1	51.7	7.7
	150% RDF	ABSH4-2	68.0	50.2	53.9	52.0	8.7
		HM 4 (C)	63.0	48.9	50.9	52.0	6.3
		CMVL 2 (C)	66.0	51.2	53.7	50.7	7.7
High	100% RDF	ABSH4-2	74.0	48.8	52.1	54.7	6.3
		HM 4 (C)	66.0	50.2	52.0	54.7	8.3
		CMVL 2 (C)	68.0	50.9	52.9	52.0	7.7
	150% RDF	ABSH4-2	76.0	48.9	51.4	53.7	7.7
		HM 4 (C)	67.0	50.2	52.1	53.7	7.3
		CMVL 2 (C)	72.0	50.0	52.0	51.0	8.0

Mean of location	67.5	50.2	52.6	52.7	7.6
------------------	------	------	------	------	-----

Normal	64.5	50.5	53.1	52.1	7.6
High	70.5	49.8	52.1	53.3	7.6
CD at 5%	0.9	NS	0.5	0.7	NS
CV (%)	1.0	1.4	0.7	0.9	7.9

100% RDF	66.3	50.4	52.8	53.2	7.6
150% RDF	68.7	49.9	52.3	52.2	7.6
CD at 5%	0.6	NS	0.5	0.7	NS
CV (%)	1.0	3.6	1.0	1.4	9.1

ABSH4-2	70.5	49.6	52.6	53.3	7.5
HM 4 (Check)	64.5	50.1	52.3	53.4	7.5
CMVL 2 (Check)	67.5	50.8	52.9	51.3	7.8
CD at 5%	1.8	NS	NS	0.7	NS
CV (%)	3.1	2.5	1.9	1.6	7.8

Cont...

A-92

Planting density	Nutrient levels	Genotypes	Net returns (Rs./ha)		B:C ratio	
			Dholi	Ranchi	Dholi	Ranchi
Normal	100% RDF	ABSH4-2	88071	146776	2.20	3.31
		HM 4 (C)	113857	102358	2.85	2.31
		CMVL 2 (C)	108852	126398	2.72	2.85
	150% RDF	ABSH4-2	93991	123041	2.35	2.62
		HM 4 (C)	119764	116236	2.99	2.47
		CMVL 2 (C)	115218	153099	2.88	3.26
High	100% RDF	ABSH4-2	104777	132928	2.62	2.93
		HM 4 (C)	141832	104451	3.55	2.30
		CMVL 2 (C)	123363	168023	3.08	3.71
	150% RDF	ABSH4-2	112152	149241	2.80	3.11
		HM 4 (C)	150399	123535	3.76	2.57
		CMVL 2 (C)	131558	174284	3.29	3.63

Mean of location	116986.2	135030.8	2.92	2.92
------------------	----------	----------	------	------

Normal	106626	127985	2.67	2.80
High	127347	142077	3.18	3.04
CD at 5%	5976.9	NS	0.1	NS
CV (%)	3.6	13.3	3.6	13.4

100% RDF	113459	130156	2.84	2.90
150% RDF	120514	139906	3.01	2.94
CD at 5%	NS	NS	NS	NS
CV (%)	7.6	16.0	7.6	16.2

ABSH4-2	99748	137996	2.49	2.99
HM 4 (Check)	131463	111645	3.29	2.41
CMVL 2 (Check)	119748	155451	2.99	3.36
CD at 5%	9738.7	14488.6	0.2	0.3
CV (%)	9.6	12.4	9.6	12.3

Table 21: Performance of pre release genotypes of baby corn under varying planting density and nutrient levels in Peninsular Zone (PZ).

Planting density	Nutrient levels	Genotypes	Baby corn yield with husk (kg/ha)		PZ (mean)	Baby corn yield without husk (kg/ha)		PZ (mean)
			Dharwad	Karimnagar		Dharwad	Karimnagar	
		Normal	100% RDF	IMHSB 19KB-2	4754	5227	4990	2118
AH7188	4821			5994	5408	1283	1549	1416
ABSH4-2	5042			5555	5299	1343	1439	1391
HM 4 (C)	4942			5350	5146	1264	1387	1326
CMVL 2 (C)	3830			4846	4338	1075	1262	1168
150% RDF	IMHSB 19KB-2		4905	5272	5089	1365	1368	1366
	AH7188		5196	6144	5670	1321	1586	1453
	ABSH4-2		5088	5759	5424	1313	1490	1401
	HM 4 (C)		5235	5440	5337	1317	1410	1364
	CMVL 2 (C)		3986	4817	4401	1079	1254	1167
High	100% RDF	IMHSB 19KB-2	5620	5199	5410	1316	1350	1333
		AH7188	5235	6042	5638	1269	1561	1415
		ABSH4-2	5678	5555	5617	1274	1439	1356
		HM 4 (C)	5575	5419	5497	1290	1405	1347
		CMVL 2 (C)	4630	4869	4750	1083	1267	1175
	150% RDF	IMHSB 19KB-2	5504	5328	5416	1279	1382	1330
		AH7188	5753	6205	5979	1447	1601	1524
		ABSH4-2	5584	5820	5702	1379	1505	1442
		HM 4 (C)	5841	5501	5671	1393	1425	1409
		CMVL 2 (C)	4493	4977	4735	1079	1294	1187
Mean of location			5085.6	5466.0	5275.8	1314.3	1416.5	1365.4
Normal			4780	5440	5110	1348	1410	1379
High			5391	5492	5441	1281	1423	1352
CD at 5%			49.9	NS	49.9	NS	NS	NS
CV (%)			0.9	1.3	1.1	32.0	1.3	16.6
100% RDF			5013	5406	5209	1331	1401	1366
150% RDF			5158	5526	5342	1297	1432	1364
CD at 5%			57.2	56.0	56.6	NS	14.0	14.0
CV (%)			1.6	1.4	1.5	34.5	1.4	17.9
IMHSB 19KB-2			5196	5257	5226	1519	1364	1442
AH7188			5251	6096	5674	1330	1574	1452
ABSH4-2			5348	5672	5510	1327	1468	1398
HM 4 (C)			5398	5427	5413	1316	1407	1361
CMVL 2 (C)			4235	4877	4556	1079	1269	1174
CD at 5%			195.6	114.0	154.8	NS	28.5	28.5
CV (%)			4.6	2.5	3.6	29.1	2.4	15.8

Cont...

A-94

Planting density	Nutrient levels	Genotypes	Green fodder yield (kg/ha)		Plants ('000/ha)	Plant height (cm)	Days to first picking	
			Dharwad	Karimnagar	Karimnagar	Karimnagar	Dharwad	Karimnagar
Normal	100% RDF	IMHSB 19KB-2	9907	11519	101.0	139.7	60.7	58.0
		AH7188	9893	12815	101.7	88.5	65.0	58.0
		ABSH4-2	9250	11630	100.0	89.0	62.7	59.0
		HM 4 (C)	9790	11481	95.7	93.9	61.3	59.0
		CMVL 2 (C)	9087	10148	98.7	89.7	69.3	60.0
	150% RDF	IMHSB 19KB-2	10660	11556	98.0	138.7	60.0	58.0
		AH7188	11793	13111	96.7	85.3	63.3	58.0
		ABSH4-2	11611	12148	98.0	88.3	62.3	59.0
		HM 4 (C)	11528	11778	97.0	92.9	63.0	59.0
		CMVL 2 (C)	10567	10370	98.0	95.5	71.0	60.0
High	100% RDF	IMHSB 19KB-2	11533	11444	115.3	134.7	59.0	59.0
		AH7188	11870	12963	114.7	78.5	64.3	59.0
		ABSH4-2	11794	12444	115.0	89.0	60.2	60.0
		HM 4 (C)	11172	11778	113.0	93.0	64.3	60.0
		CMVL 2 (C)	11367	11407	115.0	92.3	71.0	61.0
	150% RDF	IMHSB 19KB-2	10860	11852	113.3	135.3	60.0	59.0
		AH7188	12130	13185	114.0	82.0	65.0	59.0
		ABSH4-2	11436	13037	111.3	87.2	60.3	60.0
		HM 4 (C)	11771	12148	115.0	98.4	62.9	60.0
		CMVL 2 (C)	10700	12000	113.3	91.8	71.0	61.0
Mean of location			10935.9	11940.7	106.2	99.2	63.8	59.3
Normal			10409	11656	98.5	100.2	63.9	58.8
High			11463	12226	114.0	98.2	63.8	59.8
CD at 5%			870.3	NS	2.4	NS	NS	NS
CV (%)			7.2	5.6	2.0	9.6	1.4	0.0
100% RDF			10566	11763	107.0	98.8	63.8	59.3
150% RDF			11306	12119	105.5	99.5	63.9	59.3
CD at 5%			NS	NS	NS	NS	NS	NS
CV (%)			10.2	16.6	2.7	6.0	1.9	0.0
IMHSB 19KB-2			10740	11593	106.9	137.1	59.9	58.5
AH7188			11422	13019	106.8	83.6	64.4	58.5
ABSH4-2			11023	12315	106.1	88.4	61.4	59.5
HM 4 (C)			11065	11796	105.2	94.6	62.9	59.5
CMVL 2 (C)			10430	10981	106.3	92.3	70.6	60.5
CD at 5%			NS	1199.0	NS	3.8	1.5	NS
CV (%)			8.8	12.1	3.5	4.6	2.8	0.0

Cont...

A-95

Planting density	Nutrient levels	Genotypes	Net returns (Rs./ha)		B:C ratio		FAW damage (%) at 30 DAS	Cob length (cm)	Cob diameter (cm)
			Dharwad	Karimnagar	Dharwad	Karimnagar	Dharwad	Karimnagar	
Normal	100%RDF	IMHSB 19KB-2	116677	49756	2.57	1.96	2.17	8.1	1.14
		AH7188	118673	64138	2.61	2.23	2.50	9.8	1.25
		ABSH4-2	124334	55913	2.70	2.08	2.27	9.4	1.22
		HM 4 (C)	122156	52057	2.66	2.00	2.63	8.6	1.21
		CMVL 2 (C)	87717	42613	2.10	1.82	2.80	7.9	1.12
	150%RDF	IMHSB 19KB-2	120798	48606	2.57	1.90	2.33	8.8	1.16
		AH7188	131506	64950	2.75	2.20	2.17	10.1	1.27
		ABSH4-2	127734	57731	2.68	2.07	2.87	9.6	1.24
		HM 4 (C)	132017	51744	2.75	1.96	2.43	8.8	1.22
		CMVL 2 (C)	93349	40075	2.15	1.74	2.33	8.0	1.14
High	100%RDF	IMHSB 19KB-2	143577	49237	2.93	1.95	3.47	8.5	1.18
		AH7188	132786	65038	2.77	2.25	3.20	10.0	1.26
		ABSH4-2	145439	55906	2.94	2.07	3.77	9.5	1.25
		HM 4 (C)	141680	53350	2.90	2.03	3.23	8.9	1.24
		CMVL 2 (C)	113898	43050	2.47	1.83	3.27	8.2	1.16
	150%RDF	IMHSB 19KB-2	139067	49650	2.86	1.92	3.37	8.7	1.19
		AH7188	148451	66100	3.00	2.22	3.43	10.3	1.28
		ABSH4-2	142340	58869	2.91	2.09	3.63	9.9	1.26
		HM 4 (C)	150555	52888	3.04	1.98	3.53	9.0	1.13
		CMVL 2 (C)	108759	43069	2.39	1.80	3.33	8.3	1.15
Mean of location			127075.6	53237.0	2.69	2.00	2.94	9.0	1.20
Normal			117496	52758	2.55	2.00	2.45	8.9	1.20
High			136655	53716	2.82	2.01	3.42	9.1	1.21
CD at 5%			2200.6	NS	0.0	NS	0.3	NS	NS
CV (%)			1.6	2.5	0.3	1.2	7.7	7.1	8.0
100% RDF			124694	53106	2.67	2.02	2.93	8.9	1.20
150% RDF			129458	53368	2.71	1.99	2.94	9.1	1.21
CD at 5%			2308.3	NS	0.0	0.02	NS	NS	NS
CV (%)			2.5	2.8	1.7	1.5	15.8	7.0	14.2
IMHSB 19KB-2			130030	49313	2.73	1.93	2.83	8.5	1.17
AH7188			132854	65056	2.78	2.23	2.83	10.1	1.27
ABSH4-2			134962	57105	2.81	2.08	3.13	9.6	1.24
HM 4 (C)			136602	52510	2.84	1.99	2.96	8.8	1.20
CMVL 2 (C)			100931	42202	2.28	1.80	2.93	8.1	1.15
CD at 5%			5701.9	2137.6	0.1	0.04	NS	0.5	0.08
CV (%)			5.4	4.8	4.0	2.4	11.8	6.7	7.6

Table 22: Performance of pre release genotypes of baby corn under varying planting density and nutrient levels in (Ambikapur) Central Western Zone (CWZ).

Planting density	Nutrient levels	Genotypes	Baby corn yield with husk (kg/ha)	Baby corn yield without husk (kg/ha)	Green fodder yield (kg ha)	Plants ('000/ha)	Plant height (cm)
			Ambikapur				
Normal	100% RDF	IMHSB 19KB-2	11470	2368	41833	81.4	219.7
		AH7188	7534	1733	34633	82.0	153.0
		HM 4 (C)	7657	1330	36700	80.6	175.3
		CMVL 2 (C)	7277	1195	35050	81.3	164.0
		ABSH4-2	8224	1457	38167	80.2	180.0
	150% RDF	IMHSB 19KB-2	12161	2508	44167	80.5	223.3
		AH7188	8035	1795	37300	82.6	156.0
		HM 4 (C)	7706	1389	39833	82.1	178.0
		CMVL 2 (C)	7441	1504	38167	80.4	168.3
		ABSH4-2	8461	1628	41600	81.4	184.3
High	100% RDF	IMHSB 19KB-2	12457	2415	42847	96.9	221.7
		AH7188	7670	1857	35800	97.2	160.0
		HM 4 (C)	7717	1403	37833	94.9	179.7
		CMVL 2 (C)	7322	1230	36967	96.8	165.0
		ABSH4-2	8569	1526	39333	95.9	186.7
	150% RDF	IMHSB 19KB-2	13107	2619	46133	96.9	225.0
		AH7188	8244	1885	38967	97.2	165.0
		HM 4 (C)	7831	1471	40333	94.9	184.7
		CMVL 2 (C)	7556	1620	39167	96.8	170.0
		ABSH4-2	8758	1720	42267	95.9	192.0
Mean of location			8759.9	1732.5	39354.8	88.8	182.6
Normal			8597	1691	38745	81.3	180.2
High			8923	1774	39965	96.3	185.0
CD at 5%			NS	NS	NS	1.0	NS
CV (%)			8.2	6.4	22.5	1.0	2.8
100% RDF			8590	1651	37916	88.7	180.5
150% RDF			8930	1814	40793	88.9	184.7
CD at 5%			NS	NS	2710.6	NS	NS
CV (%)			13.7	18.5	9.6	2.2	5.3
IMHSB 19KB-2			12299	2477	43745	89.0	222.4
AH7188			7871	1818	36675	89.8	158.5
HM 4 (Check)			7728	1398	38675	88.1	179.4
CMVL 2 (Check)			7399	1387	37338	88.8	166.8
ABSH4-2			8503	1583	40342	88.4	185.8
CD at 5%			622.6	189.6	NS	NS	9.8
CV (%)			8.5	13.2	19.9	1.9	6.4

Cont...

A-97

Planting density	Nutrient levels	Genotypes	No. of picking	Days to first picking	Net returns (Rs./ha)	B:C ratio
			Ambikapur	Ambikapur	Ambikapur	Ambikapur
Normal	100% RDF	IMHSB 19KB-2	5.6	55.7	496807	5.21
		AH7188	5.0	53.5	338011	3.55
		HM 4 (C)	5.4	51.0	237103	2.49
		CMVL 2 (C)	5.5	50.1	203418	2.13
		ABSH4-2	5.4	50.1	269048	2.82
	150% RDF	IMHSB 19KB-2	5.5	55.1	531613	5.58
		AH7188	5.3	51.2	353344	3.71
		HM 4 (C)	5.4	50.8	251863	2.64
		CMVL 2 (C)	5.2	49.7	280622	2.94
		ABSH4-2	5.2	50.3	311668	3.27
High	100% RDF	IMHSB 19KB-2	5.4	51.2	501031	4.88
		AH7188	5.6	50.8	361633	3.52
		HM 4 (C)	5.3	50.3	247985	2.41
		CMVL 2 (C)	5.4	49.7	204689	1.99
		ABSH4-2	5.4	51.4	278753	2.71
	150% RDF	IMHSB 19KB-2	5.5	52.3	551948	5.37
		AH7188	5.3	51.0	368614	3.59
		HM 4 (C)	5.5	50.6	264948	2.58
		CMVL 2 (C)	6.4	49.0	302189	2.94
		ABSH4-2	5.2	49.9	327188	3.19
Mean of location			5.4	51.2	334123.7	3.38
Normal			5.3	51.8	327350	3.43
High			5.5	50.6	340898	3.32
CD at 5%			NS	NS	NS	NS
CV (%)			10.2	2.1	8.3	7.8
100% RDF			5.4	51.4	313848	3.17
150% RDF			5.4	51.0	354400	3.58
CD at 5%			NS	NS	NS	NS
CV (%)			7.9	3.6	24.0	24.4
IMHSB 19KB-2			5.5	53.6	520350	5.26
AH7188			5.3	51.6	355401	3.59
HM 4 (Check)			5.4	50.7	250475	2.53
CMVL 2 (Check)			5.6	49.6	247729	2.50
ABSH4-2			5.3	50.4	296664	3.00
CD at 5%			NS	1.1	47401.1	0.5
CV (%)			10.1	2.5	17.1	17.1