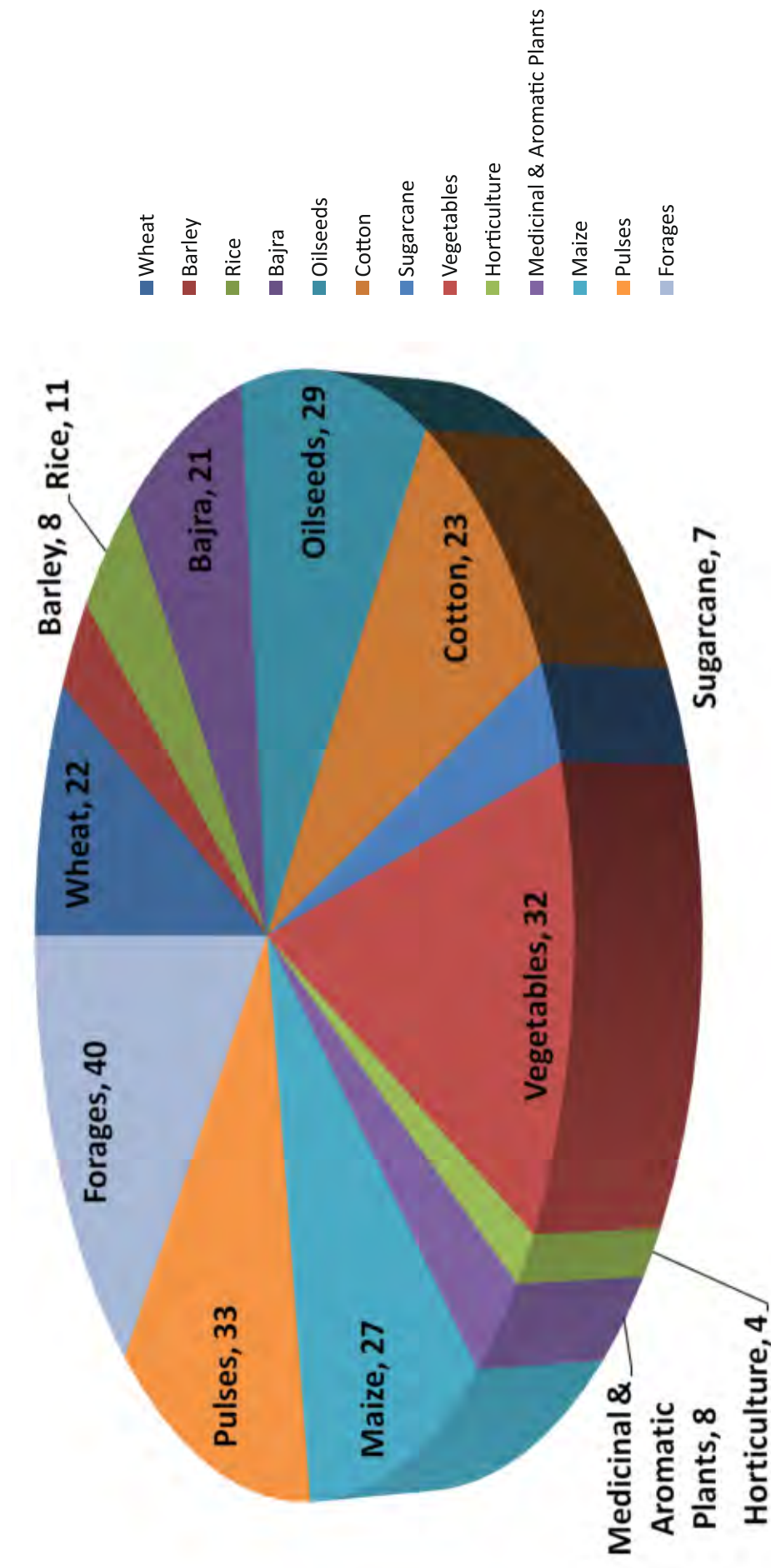




Varieties of CCS HAU
Continued Efforts Towards
Food Security

Directorate of Research
Chaudhary Charan Singh Haryana Agricultural University, Hisar

Varieties/Hybrids Released by CCS HAU, Hisar - 265



Varieties of CCSHAU

Continued Efforts Towards Food Security

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Y. Jindal, S.K. Sehrawat, A.K. Chhabra,
Neeraj Kumar, Satish Kumar, Suresh Kumar,
S.S. Yadav, Manju Dahiya
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Directorate of Research
CCS Haryana Agricultural University, Hisar, India



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Vice-Chancellor

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Foreword

I am immensely pleased to know that the Directorate of Research has come up with a compilation of varieties and hybrids of different field, vegetable and horticultural crops released by Chaudhary Charan Singh Haryana Agricultural University, Hisar since its inception in the form of a book **“Varieties of CCSHAU : Continued Efforts Towards Food Security”**.

The role of improved high yielding cultivars in attaining enhanced agricultural productivity is well known and well documented. Of course, there are other factors such as better management, input support and irrigation facilities which supplemented the performance of semi-dwarf high yielding wheat and rice varieties during the Green Revolution period, but the improved varieties have been the single most effective delivery system for showcasing genetic combinations at farmers' fields.

Improved varieties are the result of years of hard work by team of dedicated researchers and are silent harbinger of peace, progress and overall upliftment of the society. CCS HAU Hisar has played a pivotal role in the State and Nation's agriculture by evolving 265 varieties of various crops including cereals, pulses, oilseeds, fibre and sugar crops, vegetables and fruit crops since its inception in 1970. The varieties have been developed for characters like improved productivity, biotic and abiotic stresses resistance and improved nutrient composition. Many of these varieties have been recommended at National and State level and some of these have attained a landmark status in the country and the food grain production of the state has increased from 4.8 million tonnes in 1970-71 to 18.4 million tonnes in 2019-20.

I appreciate the sincere efforts made by the Directorate of Research, CCS HAU, Hisar in documenting all crop varieties developed and released at National and State level since the inception of this University, in a comprehensive form, which include varieties/hybrids currently in cultivation and those not in seed chain along with their main features in the form of a book **“Varieties of CCSHAU : Continued Efforts Towards Food Security”**. I am sure that this document will be of immense benefit to researchers, extension personnel, students, farmers and other stakeholders.


(Samar Singh)

Landmark Varieties



Wheat : WH 283 (Good Chapatti making quality)



Wheat : C 306 (Desi variety, low input)



First Cotton Hybrid of India : AAH 1



Bajra : HHB 67 Improved
(First hybrid involving male parent developed by Marker Assisted Selection)



Sugarcane : CoH 119 (Spring planting)



Maize : HM 4 (First babycorn hybrid of India)



Rice : Taraori Basmati (Widely adapted high aroma variety)



Rice : HKR 47
(Semi dwarf Non-scented variety with long slender grains)



Director of Research

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Haryana has made progress in leaps and bounds in all fields of agriculture producing about 6.5 per cent of total food grains of the country from only 1.3 per cent geographical area and it contributes about 16 per cent to the national food reserve. Since the inception of Haryana in 1966, the production has increased 8 times in rice, 6 times in wheat and 5 times in oilseeds and the state is leading in the productivity of pearl millet and mustard besides being a preference for basmati rice exporters.

Over the years, CCS Haryana Agriculture University has contributed prominently in the progress of the state by providing technical support to the hard working farmers of the state in the form of improved varieties/hybrids of different crops, and their management practices. It has added to the grain requirement of the country through the spread of these varieties across the length and breadth of the country. Apart from improved yield, varieties have also been developed for improved quality and resistant to major insect-pests of the targeted area and abiotic stress. Large efforts have been put for raising good crops under different management systems and thereby providing a good Package of Practices of each crop.

So far, CCS HAU has released 265 crop varieties/hybrids in 56 different crops, which is a great achievement by the Crop Improvement group. I whole heartedly congratulate all the breeders and collaborators working sincerely on these crops for the betterment of the state as well as of the country. No words can suffice my feelings for their dedication and hard work in developing these varieties. By bringing out a compiled publication of these varieties, I am sure we will be able to reach out to the scientists and farmers of different states of India, where these varieties can be grown and will be helpful in poverty alleviation and doubling the income of the farmers.

An effort has been made to collate all the varieties/hybrids released by the university since its inception, in this book entitled, **“Varieties of CCSHAU : Continued Efforts Towards Food Security”**, highlighting their yield potential alongwith major characters and area of release. It will help in achieving self sufficiency in food and feed production.

I dedicate this book to all citizens of India, specially the hard toiling farmers.


(Dr. S.K. Sehrawat)

Varieties/Hybrids developed by CCS HAU, Hisar so far in various Crop Plants, Vegetable crops and Horticultural crops

Sr. No.	Crop	Level of release		Total
		National	State	
1.	Wheat	16	6	22
2.	Barley	3	5	8
3.	Rice	1	10	11
4.	Pearl Millet	13	8	21
5.	Maize	24	3	27
6.	Oilseeds	13	16	29
7.	Pulse	16	17	33
8.	Cotton	3	20	23
9.	Sugarcane	3	4	7
10.	Forage Crops	20	20	40
11.	Medicinal and Aromatic Plants	5	3	8
12.	Vegetable Crops	16	16	32
13.	Horticulture	--	4	4
Total		133	132	265
Registered elite genetic strains			63	63
Genetic strains allotted national identity number			146	146

Crop Sr. No.	Name of the Variety/Hybrid	Varieties /Hybrids Released	Crop Sr. No.	Name of the Variety/Hybrid	Varieties /Hybrids Released	Crop Sr. No.	Name of the Variety/Hybrid	Varieties /Hybrids Released
1	Wheat	22	20	Pigeonpea	2	38	Guayule	1
2	Barley	8	21	Urd Bean	1	VEGETABLE CROPS (16 Crops)		
3	Rice	11	22	Cotton	23	39	Bitter Gourd	1
4	Pearl Millet	21	23	Sugarcane	7	40	Onion	3
5	Maize	27	FORAGE CROPS (8 Crops)			41	Bottle Gourd	2
OILSEED CROPS (9 Crops)			24	Berseem	3	42	Brinjal	5
6	Indian Mustard	15	25	Oats	11	43	Cauliflower	1
7	Rapeseed (Toria)	2	26	Sorghum	9	44	Garlic	1
8	Taramira	1	27	Cowpea	2	45	Okra	4
9	Til (Sesame)	2	28	Cluster bean (Guar)	11	46	Fenugreek	2
10	Castor	1	29	Senji	2	47	Coriander	2
11	Sunflower	2	30	Methi	1	48	Indian Melon	1
12	Yellow Sarson	2	31	Lucerne	1	49	Indian Bean	1
13	Brown Sarson	1	MEDICINAL & AROMATIC PLANTS (7 Crops)			50	Tomato	4
14	Groundnut	3	32	Fababean	2	51	Carrot	1
PULSE CROPS (8 Crops)			33	Dhaincha	1	52	Long Melon	1
15	Kabuli Chickpea	3	34	Isabgol	1	53	Radish	2
16	Desi (Brown) Chickpea	9	35	Mulhatti/Liquorice	1	54	Vegetable Peas	1
17	Fieldpea	8	36	Roshagrass/Palmarosa	1	HORTICULTURAL CROPS (2 Crops)		
18	Lentil	3	37	Periwinkle/Sadabahar	1	55	Marigold	2
19	Mung Bean	7				56	Guava	2



PREFACE

Chaudhary Charan Singh Haryana Agricultural University (CCSHAU) has come a long way in developing and releasing crop varieties/hybrids as per the climate needs and requirements of the region. The new millennia agriculture is based on all aspects of crop improvement that involves efficient crop production techniques, resistance to insect pests and diseases, nutritional richness, response to improved agri-mechanization practices and better keeping quality with lesser post-harvest losses. Development of cultivars is the ultimate aim of any crop improvement programme in any agricultural research organization. It takes several years of hard work of a dedicated team of plant breeders, agronomists, plant protection scientists and nutritionists to evolve a new plant variety assisted by a large number of scientists working across the country in different agro-climatic zones. The release of a variety is based on the superior performance over the best existing ones in

terms of economic yield and other important traits. A released cultivar carries the best combination of genes. This is one of the most economical technologies delivered to the farmers in the form of quality seed. The new variety saves crores of rupees on account of improved yield, savings on agro-chemicals (thereby saving on human health) and provides more nutritious food for the well being of the population.

Plant breeding work started much earlier at CCSHAU, Hisar with the release of desi Wheat variety C 306 in 1969 which is a landmark variety with better chapatti making qualities and is drought tolerant. WH 147 was a Land mark variety in the history of wheat improvement. Released in 1978 for State and Central Zone, it showed a greater adaptability. Another milestone in wheat breeding was achieved in the release of variety WH 283 in 1985, which is also having good flour recovery and was adapted in North West plain zone to a great extent. WH 1270 is the most recently released variety in this series (2021) that has very high grain productivity. Rice is another important crop in Haryana. Taraori Basmati is a landmark variety released in 1992 which is a widely adapted variety and is known for its aroma.

Since its foundation in 1970, CCSHAU has evolved a total of 265 varieties of field and horticultural (including vegetables) crops. The crop improvement work has resulted in development of 89 varieties of cereals (wheat-22, rice-11, pearl millet-21, maize-27 and barley-8); 29 of nine oilseed crops (rapeseed and mustard group, ground nut, sesame, castor and sunflower), 33 of eight pulses (chickpea, field, lentil, mungbean, pigeonpea and urdbean); 40 of eight forage crops (sorghum, cowpea, clusterbean, berseem, oats, lucerne, senji and methi), 30 of two cash crops (cotton 23 and sugarcane 7); 32 of 16 vegetable crops (brinjal, garlic, onion, okra, fenugreek, coriander, Indian melon, Indian bean, tomato, carrot, long melon, radish, peas), 4 of two horticultural crops (marigold and guava) and 8 of medicinal and aromatic plants (fababean, dhaincha, isabgol, mulhatti, rosha grass, periwinkle and guayule). Out of these 265 released varieties (belonging to 56 crops), 133 have been released at national/zonal level and 132 at state levels.

Besides these released varieties, the university has registered 63 elite genetic strains of different crops with NBPGR, while 146 genetic strains of different crops have been allotted national identity numbers.



Directorate of Research, CCSHAU, Hisar

It was followed by a landmark variety HKR 47 (2005) with long slender grains and Haryana Basmati 2 (2018) as a scented variety. In Cotton also, the first Desi cotton Hybrid of the country viz. AAH 1 was developed and released in 1999. Till date we have released 23 varieties/hybrids at State/National level. Pearl millet hybrid HHB 67 Improved was another landmark in the history of varietal development at CCS HAU, Hisar. This was the first hybrid developed by combining conventional and non-conventional (Marker Assisted Selection) approaches and was released in 2005 for the country. It is also known as “Wonder Hybrid”. CCS HAU also holds the credits of developing a series of CMS lines in pearl millet. In Sugarcane, CoH 119 is a landmark variety released in 2005 that combines several domestic traits viz. thick rind, juicy cane, medium maturity, non-lodging, good ratooner, tolerant to water stress, good combination of cane yield and juice quality. Maize hybrid HM 4 released in 2004 is the first baby corn single cross hybrid in the country. In mungbean, MH 421 developed in 2012 has covered the highest acreage in the country and same story is being repeated for RH 725 of mustard. These two varieties have revolutionized the crop patterns in the country and are the farmer's first demand presently. HC 5 of chickpea is suitable for mechanized harvesting and is being used as National check for co-ordinated trials. The success story is not complete and there are several elite genotypes in all the crops to meet the future demands.

We thank our worthy Vice-chancellor, CCS HAU, Hisar for giving vision and all support in preparing this book for various sections of the society. We are thankful to all the breeders and contributors of various crops for providing the required information for the book. Special thanks are due to Prof. & Head, Department of Genetics and Plant Breeding and all the Heads of Sections of this department. Thanks are also due to Prof. & Head, Department of Vegetable Science and Horticulture for their contributions in this document. Its only due to the sincere advice and continued efforts of our Director of Research which has resulted in the compilation of this book. We are sure that this book will be very useful to the researchers across the country and to the farmers who are the ultimate users of the latest technology.

**Y. Jindal, S.K. Sehrawat, A.K. Chhabra, Neeraj Kumar, Satish Kumar,
Suresh Kumar, S.S. Yadav, Manju Dahiya and Ram Niwas**

*The existence of the varietal development programme runs
to the existence of life on the earth*



Directorate of Research, CCSHAU, Hisar



Felicitation of Breeders and Developers of Forage crop varieties



Felicitation of Breeders and Developers of Pulse crop varieties



Felicitation of Breeders and Developers of Wheat varieties



Felicitation of Breeders and Developers of Pearl millet varieties



Contents

Cum. Sr. No.	Sr. No.	Name of the Variety/Hybrid	Year of Release	Page No.	Cum. Sr. No.	Sr. No.	Name of the Variety/Hybrid	Year of Release	Page No.
WHEAT					PEARL MILLET				
				1-11					22-32
1.	1	WH 1270	2021	1	36.	6	HKR 47*	2005	18
2.	2	WH 1184*	2019	1	37.	7	HKR 46*	2000	19
3.	3	WH 1142	2015	2	38.	8	HKR 126*	1992	19
4.	4	WH 1124	2014	2	39.	9	Taraori Basmati*	1992	20
5.	5	WHD 948 (Durum)	2014	3	40.	10	Haryana Basmati 1	1991	20
6.	6	WH 1105	2013	3	41.	11	HKR 120*	1987	21
7.	7	WH 1080	2011	4					
8.	8	WHD 943 (Durum)	2011	4	42.	1	HHB 311	2020	22
9.	9	WH 1025*	2010	5	43.	2	HHB 299	2018	22
10.	10	WH 1021	2008	5	44.	3	HHB 272	2016	23
11.	11	WH 711*	2002	6	45.	4	HHB 234	2013	23
12.	12	WH 912* (Durum)	2002	6	46.	5	HHB 226	2011	24
13.	13	Sonak*	1998	7	47.	6	HHB 223	2010	24
14.	14	WH 896 (Durum)	1995	7	48.	7	HHB 216	2010	25
15.	15	WH 533*	1993	8	49.	8	HHB 197	2008	25
16.	16	WH 542	1992	8	50.	9	HHB 67 Improved	2005	26
17.	17	WH 416	1990	9	51.	10	HHB 117*	2004	26
18.	18	WH 291	1985	9	52.	11	HHB 146	2003	27
19.	19	WH 283	1985	10	53.	12	HC 20*	2002	27
20.	20	WH 147	1978	10	54.	13	HC 10*	2000	28
21.	21	WH 157	1978	11	55.	14	HHB 94*	2000	28
22.	22	C 306	1969	11	56.	15	HHB 68*	1993	29
BARLEY									
				12-15	57.	16	HHB 67	1990	29
23.	1	BH 959	2015	12	58.	17	HHB 60*	1988	30
24.	2	BH 946	2014	12	59.	18	HHB 50	1987	30
25.	3	BH 885*	2012	13	60.	19	HC 4	1987	31
26.	4	BH 902	2010	13	61.	20	HHB 45*	1985	31
27.	5	BH 393*	2002	14	62.	21	HS 1*	1978	32
28.	6	BH 75*	1985	14	MAIZE				
29.	7	BG 25*	1976	15					33-46
30.	8	BG 105*	1976	15	63.	1	HM 13	2015	33
RICE					64.	2	HM 12	2012	33
				16-21	65.	3	HSC 1	2011	34
31.	1	Haryana Basmati 2*	2018	16	66.	4	HM 11	2009	34
32.	2	HKR 128*	2018	16	67.	5	HM 10	2008	35
33.	3	HKR 48*	2016	17	68.	6	HM 9	2007	35
34.	4	HKR 127*	2009	17	69.	7	HM 8	2007	36
35.	5	Haryana Shankar Dhan 1* (HSD 1)	2006	18	70.	8	HM 5*	2004	36
					71.	9	HM 4	2004	37
					72.	10	HHM 2*	2001	37

* Variety released for cultivation in Haryana state.



Directorate of Research, CCSHAU, Hisar

Cum. Sr. No.	Sr. No.	Name of the Variety/Hybrid	Year of Release	Page No.	Cum. Sr. No.	Sr. No.	Name of the Variety/Hybrid	Year of Release	Page No.
73.	11	HHM 1*	2001	38	Til (Sesame)				
High Quality Protein Maize Hybrids					108.	19	HT 2	2013	56
74.	12	HQPM 4	2010	38	109.	20	HT 1*	1978	56
75.	13	HQPM 7	2008	39	Castor				
76.	14	HQPM 5	2007	39	110.	21	CH 1*	1978	57
77.	15	HQPM 1	2005	40	Sunflower				
Inter-institutional Maize Hybrids					111.	22	HSFH 848*	2005	57
78.	16	IMH QPM 1530	2020	40	112.	23	Haryana Surajmukhi 1*	1994	58
79.	17	Pusa HQPM-7 Improved	2020	41	Yellow Sarson				
80.	18	Pusa HQPM-5 Improved	2020	41	113.	24	YSH 0401	2008	58
81.	19	DMRH 1305	2018	42	114.	25	YSPb 24*	1966	59
82.	20	IMHB 1539	2018	42	Brown Sarson				
83.	21	DMRH 1308	2018	43	115.	26	BSH 1*	1966	59
84.	22	Pusa HM 9 Improved	2017	43	Groundnut				
85.	23	Pusa HM 8 Improved	2017	44	116.	27	MH 4*	1988	60
86.	24	Pusa HM 4 Improved	2017	44	117.	28	MH 2*	1974	60
87.	25	Palam Sankar Makka I (EHL 162508)	2015	45	118.	29	MH 1*	1974	61
88.	26	Partap QPM Hybrid (EHQ-16)	2013	45	PULSE CROPS				
89.	27	Malviya Hybrid Makka-2	2007	46	Kabuli Chickpea				
OILSEED CROPS				47-61	119.	1	HK 4	2012	62
Indian Mustard					120.	2	HK 2	2005	62
90.	1	RH 761	2019	47	121.	3	HK 1*	2002	63
91.	2	RH 725	2018	47	Desi (Brown) Chickpea				
92.	3	RH 0749	2013	48	122.	4	HC 7	2019	63
93.	4	RH 0406	2013	48	123.	5	HC 5*	2005	64
94.	5	RH 0119*	2010	49	124.	6	HC 3*	2000	64
95.	6	RB 50	2009	49	125.	7	HC 1	1990	65
96.	7	RB 24 (RB 9901)	2003	50	126.	8	Gora Hisari*	1988	65
97.	8	Swaran Jyoti (RH 9801)	2002	50	127.	9	Gaurav	1985	66
98.	9	Vasundhra (RH 9304)	2002	51	128.	10	H 208	1978	66
99.	10	Laxmi (RH 8812)*	1996	51	129.	11	H 355*	1978	67
100.	11	RH 781	1990	52	130.	12	C 235*	1976	67
101.	12	RH 819	1990	52	Fieldpea				
102.	13	Saurabh (RH 8113)	1985	53	131.	13	HFP 1428	2021	68
103.	14	RH 30*	1983	53	132.	14	HFP 715	2014	68
104.	15	Parkash*	1974	54	133.	15	HFP 529	2012	69
Rapeseed (Toria)					134.	16	HFP 9426*	2008	69
105.	16	TH 68*	1990	54	135.	17	Hariyal (HFP 9907B)	2007	70
106.	17	Sangam*	1974	55	136.	18	Jayanti (HFP 8712)*	1998	70
Taramira					137.	19	Uttara (HFP 8909)	1997	71
107.	18	T 27*	1974	55	138.	20	Aparna (HFP 4)	1988	71
					Lentil				
					139.	21	HM 1*	2006	72

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Directorate of Research, CCSHAU, Hisar

Cum. Sr. No.	Sr. No.	Name of the Variety/Hybrid	Year of Release	Page No.	Cum. Sr. No.	Sr. No.	Name of the Variety/Hybrid	Year of Release	Page No.
140.	22	Garima*	1997	72	SUGARCANE				
141.	23	Sapna	1991	73	91-94				
Mung Bean					175.	1	CoH 128	2012	91
142.	24	MH 1142	2020	73	176.	2	CoH 110*	2005	91
143.	25	MH 318*	2015	74	177.	3	CoH 119	2005	92
144.	26	MH 421	2014, 2012	74	178.	4	CoH 92	2001	92
145.	27	Basanti*	2010	75	179.	5	CoH 56*	1995	93
146.	28	Sattya	2008	75	180.	6	CoH 99*	1995	93
147.	29	Muskan (MH 96-1)*	2004	76	181.	7	CoH 35*	1992	94
148.	30	Asha*	1993	76	FORAGE CROPS				
Pigeonpea					96-115				
149.	31	Paras*	1998	77	Berseem				
150.	32	Manak*	1985	77	182.	1	HB 2*	2014	96
Urd Bean					183.	2	HB 1*	2006	96
151.	33	UH 1*	2012	78	184.	3	Mescavi	1975	97
COTTON					Oats				
American Varieties					185.	4	HFO 607	2021	97
152.	1	HS 292	2018	79	186.	5	HFO 427	2021	98
153.	2	H 1353	2015	79	187.	6	OS 424	2020	98
154.	3	H 1300	2012	80	188.	7	OS 405	2020	99
155.	4	H 1098-i*	2010	80	189.	8	OS 403	2018	99
156.	5	H 1236*	2010	81	190.	9	OS 377	2015	100
157.	6	H 1226*	2006	81	191.	10	OS 346	2010	100
158.	7	H 1117*	2002	82	192.	11	HJ 8*	1998	101
159.	8	H 1098*	1997	82	193.	12	OS 7*	1984	101
160.	9	HS 6*	1993	83	194.	13	HFO 114*	1984	102
161.	10	H 974*	1993	83	195.	14	OS 6	1982	102
162.	11	HS 45*	1988	84	Sorghum				
163.	12	H 655C*	1978	84	196.	15	CSV 44F	2020	103
164.	13	H 777*	1978	85	197.	16	HJ 541*	2014	103
American Hybrids					198.	17	HJ 513*	2007	104
165.	14	HHH 287*	2005	85	199.	18	HC 308	1996	104
166.	15	HHH 223*	2002	86	200.	19	HC 260	1987	105
167.	16	HHH 81*	1996	86	201.	20	HC 171	1987	105
Desi Varieties					202.	21	HC 136	1982	106
168.	17	HD 432*	2010	87	203.	22	SSG 59-3	1978	106
169.	18	HD 324*	2005	87	204.	23	JS 73/53	1975	107
170.	19	HD 123*	2000	88	Cowpea				
171.	20	HD 107*	1996	88	205.	24	HC 46 (Grain)*	2009	107
172.	21	DS 5*	1988	89	206.	25	CS 88 (Fodder)*	1995	108
173.	22	DS 1*	1985	89	Cluster bean (Guar - Grain)				
Desi Hybrids					207.	26	HG 884*	2010	108
174.	23	AAH-1*	1999	90	208.	27	HG 2-20*	2010	109
					209.	28	HG 870*	2010	109
					210.	29	HG 563*	2004	110
					211.	30	HG 365*	1998	110

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Directorate of Research, CCSHAU, Hisar

Cum. Sr. No.	Sr. No.	Name of the Variety/Hybrid	Year of Release	Page No.	Cum. Sr. No.	Sr. No.	Name of the Variety/Hybrid	Year of Release	Page No.
212.	31	HG 258*	1986	111	238.	9	Hisar Pragati*	1991	124
213.	32	HG 182	1981	111	239.	10	Hisar Shyamal	1991	124
Cluster bean (Guar - Fodder)					240.	11	BR 112*	1976	125
214.	33	HFG 156*	1987	112	Cauliflower				
215.	34	HG 75	1981	112	241.	12	Hisar 1*	1976	125
216.	35	HFG 119	1981	113	Garlic				
217.	36	FS 277*	1974	113	242.	13	HG 17*	2012	126
Senji					Okra				
218.	37	HFWS 55*	1997	114	243.	14	Hisar Naveen	2006	126
219.	38	FOS 1*	1976	114	244.	15	HBH 142	2006	127
Methi					245.	16	Hisar Unnat	1997	127
220.	39	T 8*	1997	115	246.	17	Varsha Uphar	1996	128
Lucerne					Fenugreek				
221.	40	T 9	1978	115	247.	18	Hisar Mukta	2006	128
MEDICINAL & AROMATIC PLANTS 116-119					248.	19	Hisar Sonali	1996	129
Fababean					Coriander				
222.	1	HFB-1	2017	116	249.	20	Hisar Sugandh	2006	129
223.	2	Vikrant	1999	116	250.	21	Hisar Anand	1993	130
Dhaincha					Indian Melon				
224.	3	DH 1	2003	117	251.	22	Hisar Tinda (HT 10)*	2006	130
Isabgol					Indian Bean				
225.	4	HI 5*	1989	117	252.	23	Hisar Kirti*	1995	131
Mulhatti/Liquorice					Tomato				
226.	5	HM 1*	1989	118	253.	24	Hisar Lalit	1993	131
Roshagrass/Palmarosa					254.	25	Hisar Arun	1990	132
227.	6	RH-49*	1989	118	255.	26	HS 101	1978	132
Periwinkle/Sadabahar					256.	27	HS 102	1976	133
228.	7	Prabhat Selection 1	2003	119	Carrot				
Guayule					257.	28	Hisar Gairic*	1993	133
229.	8	HG-8	1991	119	Long Melon				
VEGETABLE CROPS 120-135					258.	29	Karnal Selection	1981	134
Bitter Gourd					Radish				
230.	1	HK 127*	2019	120	259.	30	Hisar Sweti*	2006	134
Onion					260.	31	Hisar Selection 1*	2004	135
231.	2	Hisar Onion 4*	2016	120	Vegetable Peas				
232.	3	Hisar Onion 3	2010	121	261.	32	Hisar Harit	1993	135
233.	4	Hisar 2*	1976	121	HORTICULTURAL CROPS 136-137				
Bottle Gourd					Marigold				
234.	5	GH 22*	2016	122	262.	1	Hisar Jaffri-2*	2008	136
235.	6	HBGH 35 (hybrid)*	2016	122	263.	2	Hisar Beauty*	2008	136
Brinjal					Guava				
236.	7	HLB 12 (Hisar Bahar)*	2014	123	264.	3	Hisar Safeda*	1995	137
237.	8	HLB 25 (Hisar Jamuni)*	2012	123	265.	4	Hisar Surkha*	1995	137

* Variety released for cultivation in Haryana state.



Wheat : WH 1270

North-West
Plain Zone

Yield
75.8 q/ha

Hectolitre
Weight
80.5

2021

S.O. 500 (E)
Dated 29.01.2021

- Early sown, high fertility and irrigated conditions of NWPZ
- Resistant to yellow and brown rusts, flag smut, leaf blight and powdery mildew diseases
- Hectolitre Weight : 80.5 kg/hl
- Protein content : 12.4 %
- Chapati making score : 7.66
- Biscuit Quality (Spread factor) : 7.68
- **Average Yield** : 75.85 q/ha
- **Potential Yield** : 91.5 q/ha

Wheat : WH 1184

Rust
resistant

Protein
content
13.1%

Sedimentation
value 60

- Resistant to yellow rust
- Good protein content (13.0%)
- Hectolitre wt. 79.3 kg/hl
- Haryana State for timely sown irrigated conditions

Average Yield : 61.3 q/ha

Potential Yield : 70.2 q/ha



2019

S.O. 3220(E)
Dated 05.09.2019



2015

S.O. 1228 (E)
Dated 07.05.2015

Wheat : WH 1142

National

Drought
tolerant

Yellow Rust
Resistance

- Resistant to yellow rust
- Good protein content (12.1.0%)
- National (NWPZ) for early sown (25 Oct. to 5 Nov.), restricted irrigation and medium input condition

Average Yield : 48.1 q/ha

Potential Yield : 62.5 q/ha

Wheat : WH 1124

Rust
resistant

Iron
43.4 ppm

Zinc
41.78 ppm

- High protein content (12.9%)
- Highly resistant to yellow & brown rusts
- Tolerant to terminal heat stress
- Bread quality score (6.88)
- Chapati score (7.46)
- Fe (43.4 ppm), Zn (41.78 ppm)
- National (NWPZ) for late sown, high fertility & irrigated conditions
- **Average Yield :** 42.7 q/ha
- **Potential Yield :** 56.1 q/ha



2014

S.O. 1919 (E)
Dated 30.07.2014



Wheat : WHD 948 (Durum)

Excellent
pasta
quality

Resistant
to major
diseases

β -carotene
5.99 ppm

2014

S.O. 1146 (E)
Dated 24.04.2014

- β -carotene content(5.99 ppm)
- Excellent pasta making quality score (7)
- Resistant to Karnal bunt, rusts, Foot Rot, Flag smut, Loose smut, Leaf blight and powdery mildew diseases
- Peninsular Zone (PZ) for timely sown, high fertility and irrigated conditions
- **Average Yield** : 46.5 q/ha
- **Potential Yield** : 69.5 q/ha

Wheat : WH 1105

Early
maturing

Protein
content
12.4%

Lodging
tolerant

- Amber bold grains
- Semi-dwarf in stature
- Highly resistant to yellow and brown rust, flag smut, leaf blight and powdery mildew
- Protein content (12.4%)
- Chapatti score (7.6)
- National (NWPZ) for timely sown, high fertility and irrigated conditions
- **Average Yield** : 60.0 q/ha
- **Potential Yield** : 71.6 q/ha



2013

S.O. 952 (E)
Dated 10.04.2013



Wheat : WH 1080

Drought
tolerant

Gluten
index
79

Iron
46.2 ppm

2011

S.O. 1661 (E)
Dated 27.01.2011

- Better in quality
- Gluten index (79), Iron (46.2 ppm), zinc (37.7 ppm) and protein content (12.5%)
- Resistant to lodging, drought stress and all rusts
- National (NWPZ) for rainfed and low input conditions
- **Average Yield** : 32.5 q/ha
- **Potential Yield** : 44.4 q/ha

Wheat : WHD 943 (Durum)

β -carotene
6.8 ppm

Resistant
to diseases

Good pasta
quality



- High β -carotene (6.8 ppm)
- Good protein content (12.5%)
- Resistant to Karnal bunt, rusts, flag smut, leaf-blight and powdery mildew
- Excellent quality character for pasta making
- National (NWPZ) for timely sown, high fertility and irrigated conditions
- **Average Yield** : 52 q/ha
- **Potential Yield** : 63 q/ha

2011

S.O. 632 (E)
Dated 25.03.2011



Wheat : WH 1025

Drought
tolerant

Good
chapatti
quality

Resistant
to rust

2010

S.O. 211 (E)
Dated 29.01.2010

- Semi-dwarf (100 cm)
- Bold shining grains
- Good chapatti making quality
- Resistant to rust
- Haryana State for rainfed and low input conditions
- **Average Yield** : 27.5 q/ha
- **Potential Yield** : 38 q/ha

Wheat : WH 1021

Heat
tolerant

Dwarf

Bread
Score
7.5

- Dwarf (95 cm)
- Shining, amber, hard grains
- High protein content
- National (NWPZ) for late sown, high fertility and irrigated conditions
- **Average Yield** : 39 q/ha
- **Potential Yield** : 42 q/ha



2008

S.O. 1108 (E)
Dated 08.05.2008



2002

S.O. 937 (E)
Dated 04.09.2002

Wheat : WH 711

Protein
content
13.7%

Lodging
resistant

Bold Grain

- Dwarf (81 cm), shining, amber hard grains and good for chapati making
- Ideal variety which is high yielding, lodging resistant and good quality grain
- Moderately resistant to rust and Karnal bunt
- Haryana State for timely sown, high fertility and irrigated conditions
- **Average Yield** : 57.15 q/ha
- **Potential Yield** : 59.5 q/ha

Wheat : WH 912 (Durum)

β -carotene
7.2 ppm

Hectolitre
weight
80

Resistant
to rust

- Dwarf durum variety
- Bold, shining hard amber grains
- High β -carotene (7.2 ppm)
- Resistant to rusts
- Tolerant to Karnal bunt
- State for timely sown, high fertility and irrigated conditions
- **Average Yield** : 47.6 q/ha
- **Potential Yield** : 58.0 q/ha



2002

S.O. 937 (E)
Dated 04.09.2002



Wheat : Sonak

Heat
tolerant

Bold Grain

Chapati
score
7.2

- Semi-dwarf plant height
- Bold, shining, hard amber grains
- Resistant to rusts
- 1000 grain weight - 48 g
- State for late to very late sown, high fertility and irrigated conditions
- **Average Yield** : 38 q/ha
- **Potential Yield** : 46 q/ha

1998

S.O. 401 (E)
Dated 15.05.1998

Wheat : WH 896 (Durum)

β -carotene
6.7 ppm

Rust
resistant

Good
export
quality

- Dwarf durum wheat variety
- Bold, amber and shining grains
- High β -carotene (6.7 ppm)
- Meets all requirements of export quality
- Resistant to rusts and Karnal bunt
- National (NWPZ) for timely sown, high fertility and irrigated conditions
- **Average Yield** : 42.0 q/ha
- **Potential Yield** : 58.0 q/ha



1995

S.O. 408 (E)
Dated 04.05.1995



Wheat : WH 533

Drought
tolerant

Strong
straw

Dwarf

1993

S.O. 615 (E)
Dated 17.08.1993

- Dwarf plant height (86 cm)
- Strong straw
- High tillering
- Amber, medium sized grains
- State for early to timely sown, rainfed conditions
- **Average Yield** : 29.5 q/ha
- **Potential Yield** : 42.5 q/ha

Wheat : WH 542

Dwarf

High Grain
hardness
index

Chapati
score
8.0

- First semi dwarf (90 cm) variety with 1B/1R translocation
- High tillering
- Medium bold, amber, shining, semi-hard grains
- Highly resistant to all three rusts
- National (NWPZ) for timely sown, high fertility and irrigated conditions
- **Average Yield** : 58 q/ha
- **Potential Yield** : 61 q/ha



1992

S.O. 814 (E)
Dated 04.11.1992



Wheat : WH 416

Dwarf

Protein
content
12.8%

Hectolitre
weight
80

- Dwarf (74 cm)
- Medium bold, amber, semi-hard grains
- National (NWPZ) for timely sown, high fertility and irrigated conditions
- **Average Yield** : 40.2 q/ha
- **Potential Yield** : 58 q/ha

1990

S.O. 386 (E)
Dated 15.05.1990

Wheat : WH 291

Protein
content
13.8%

Dwarf

Chapati
score
7.8

- Semi-dwarf (85 cm)
- Medium, shining, amber and hard grains
- High protein content (> 13.83%)
- Rust resistant
- National (NWPZ) for late sown, high fertility and irrigated conditions
- **Average Yield** : 34 q/ha
- **Potential Yield** : 50 q/ha



1985

S.O. 540 (E)
Dated 24.07.1985



Wheat : WH 283

Protein
content
12.6%

Chapati
score
7.8

High flour
recovery

1985

S.O. 295 (E)
Dated 09.04.1985

- Dwarf (90 cm)
- Bold shining, amber hard grains
- Excellent chapatti making quality
- High protein content (12.6%)
- Resistant to rusts
- Tolerant to Karnal bunt
- National (NWPZ) for timely sown, high fertility and irrigated conditions
- **Average Yield** : 43.7 q/ha
- **Potential Yield** : 52 q/ha

Wheat : WH 147

Good
adaptability

Good
protein
content

Pelshenke
value
104

- Land mark variety in the history of wheat improvement
- Medium height (100 cm)
- Broad leaves, medium, bold, amber and semi-hard grains
- Good chapatti making quality
- State and Central Zone, for timely sown, medium fertility and restricted irrigation condition
- **Average Yield** : 50 q/ha
- **Potential Yield** : 56 q/ha



1978

S.O. 13
Dated 19.12.1978



1978

S.O. 13 (E)
Dated 19.12.1978

Wheat : WH 157

Salinity/
alkalinity
tolerant

Pelshenke
value
100

Hectolitre
weight
78.4

- Dwarf (95 cm)
- Bold, amber, semi-hard grains
- Good chapatti making quality
- Tolerant to rust
- National (NWPZ) for timely sown, irrigated conditions under salinity/ alkalinity conditions
- **Average Yield** : 43.5 q/ha
- **Potential Yield** : 57.0 q/ha

Wheat : C 306

Excellent
Chapati
score

Drought
tolerant

Pelshenke
Value
100

- Desi tall variety (125 cm)
- Bold and shining grain
- High chapatti score (8.4)
- National (NWPZ and NEPZ) for rainfed and low fertility areas for early sowing
- **Average Yield** : 26.0 q/ha
- **Potential Yield** : 36.0 q/ha



1969

S.O. 4045
Dated 24.9.1969



Barley : BH 959

National
(CZ)

Yield
49.9 q/ha

Resistant to
yellow rust
& leaf blight

2015

S.O. 1228 (E)
Dated 7.5.2015

- Good grain character
- Resistant to yellow rust and leaf blight
- National (CZ) for timely sown irrigated conditions
- **Average Yield** : 49.9 q/ha
- **Potential Yield** : 67.5 q/ha

Barley : BH 946

National
(NWPZ)

Yield
51.9 q/ha

Highly
resistant to
diseases

- Semi-dwarf, profused tillering, compact ears, bold grains
- Highly resistant to yellow rust and leaf blight
- Tolerant to lodging
- National (NWPZ) for timely sown irrigated conditions
- **Average Yield** : 51.9 q/ha
- **Potential Yield** : 66.3 q/ha



2014

S.O. 1919 (E)
Dated 30.07.2014



2012

S.O.2125 (E)
Dated 10.09.2012

Barley : BH 885

Haryana

Yield
44.1 q/ha

Suitable
for Malt
industries

- Two rowed
- Erect spike, thin husk, bold grains
- High yielding, High malt content
- Suitable for malt industries due to high malt
- Tolerant to lodging
- Resistance to rusts and stripe disease
- Haryana State for timely sown irrigated conditions
- **Average Yield** : 44.1 q/ha
- **Potential Yield** : 54.2 q/ha

Barley : BH 902

National
(NWPZ)

Yield
49.75 q/ha

Tolerant
to lodging &
shattering

- Tall, profuse tillering, compact ears
- Bold and round seeds
- Tolerant to lodging and shattering
- Resistant to yellow rust and leaf blight
- National (NWPZ) for timely sown irrigated conditions
- **Average Yield** : 49.75 q/ha
- **Potential Yield** : 61.60 q/ha



2010

S.O. 733 (E)
Dated 01.04.2010



Barley : BH 393

Haryana

Yield
44.60 q/ha

Bold
Seeded,
Thin husk

- Suitable for malt industries due to high malt
- Dwarf plant type with long ears
- Bold seeded, thin husk
- Early in maturity
- Tolerant to lodging
- Resistant to yellow rust and molya disease
- Haryana State for timely sown irrigated conditions, North India
- **Average Yield** : 44.60 q/ha
- **Potential Yield** : 55.00 q/ha

2002

S.O. 937 (E)
Dated 04.09.2002

Barley : BH 75

Haryana

Yield
32.39 q/ha

Resistant to
yellow rust
& Molya

- Semi-dwarf, profuse tillering and lax ears
- Light yellow grains
- Resistant to yellow rust and molya disease
- State for timely sown irrigated conditions
- **Average Yield** : 32.39 q/ha
- **Potential Yield** : 48.05 q/ha



1985

S.O. 295 (E)
Dated 9.4.1985



Barley : BG 25

Haryana

Yield
36.4 q/ha

Tolerant to
yellow rust

1976

S.O. 786 (E)
Dated 02.02.1976

- Tall, long lax ears
- Round and light yellow grains
- Tolerant to yellow rust
- State for timely sown, irrigated and saline alkaline conditions
- **Average Yield** : 36.4 q/ha
- **Potential Yield** : 43.1 q/ha

Barley : BG 105

Haryana

Yield
50 q/ha

Tolerant
to lodging



- Medium-tall with compact ears
- Bold yellow grains
- Tolerant to lodging
- Susceptible to yellow rust and molya disease
- Haryana State for late sown irrigated conditions
- **Average Yield** : 50.0 q/ha
- **Potential Yield** : 53.0 q/ha

1976

S.O. 786 (E)
Dated 02.02.1976



2018

S.O. 3220 (E)
Dated: 06.09.2019

Rice : Haryana Basmati 2

Haryana
Medium
Fertility

Yield
40 q/ha

Tolerant to
Bakanae

- Photo-insensitive semi dwarf scented variety
- Compact green plant with resistance to lodging
- Better milling and head rice recovery
- Extra-long slender grains
- Better cooking and grain quality
- Tolerant to bakanae disease
- Moderately resistant to blast and WBPH
- Medium fertility paddy growing areas of Haryana
- **Average Yield** : 40 q/ha
- **Potential Yield** : 60 q/ha

Rice: HKR 128

Haryana
Timely
Planting

Yield
80 q/ha

Long slender
Super fine
Grains

- High yielding medium duration (141 days) non-scented, semi dwarf variety
- Long slender grains of super fine quality
- Good cooking and eating quality
- High milling percentage
- Compact plant with long flag leaf
- Tolerant to planthopper and moderately resistant to false smut
- Paddy growing areas of Haryana under timely planting
- **Average Yield** : 80 q/ha
- **Potential Yield** : 100 q/ha



2018

S.O. 3220 (E)
Dated: 06.09.2019



2016

3540 (E)
Dated 24.11.2016

Rice : HKR 48

Haryana
Early &
Late

Yield
60 q/ha

Moderately
resistant
to BLB

- Early duration (118 days) non-scented, semi dwarf variety with long slender grains
- Good cooking and eating quality
- High milling percentage
- Moderately resistant to bacterial leaf blight
- Suitable for multiple cropping
- Paddy growing areas of Haryana under early and late planted conditions
- **Average Yield** : 60 q/ha
- **Potential Yield** : 80 q/ha

Rice : HKR 127

Haryana
Early
Planting

Yield
70 q/ha

Tolerant to
False smut

- Suitable for early planting
- Maturity 140 days (medium duration)
- Non-scented semi dwarf variety with long slender grains
- Moderately resistant to false smut
- High fertility paddy growing areas of Haryana
- **Average Yield** : 70 q/ha
- **Potential Yield** : 100 q/ha



2009

211 (E)
Dated 29.01.2010



Rice : Haryana Shankar Dhan 1 (HSD 1)

Haryana
High
Fertility

Yield
75 q/ha

Tolerant to
WBPH &
Stem Borer

2006

S.O. 122 (E)
Dated 06.02.2007

- Non-scented hybrid suitable for early planting
- maturity 139 days (medium duration)
- Compact plant type with long slender partially awned grains
- Moderately resistant to White Backed Plant Hopper (WBPH), stem borer and leaf folder
- High fertility paddy growing areas of Haryana
- **Average Yield** : 75 q/ha
- **Potential Yield** : 100 q/ha

Rice : HKR 47

Haryana
High
Fertility

Yield
65 q/ha

Tolerant to
Blast, Smut
& WBPH

- Semi dwarf Non-scented variety with long slender grains
- Suitable for early and late planting
- Maturity 135 days (mid-early duration)
- Moderately resistant to false smut, blast and brown spot and tolerant to WBPH
- High fertility paddy growing areas of Haryana
- **Average Yield** : 65 q/ha
- **Potential Yield** : 90.0 q/ha



2005

S.O. 1566 (E)
Dated 05.11.2005



2000

S.O. 340 (E)
Dated 03.04.2000

Rice : HKR 46

Haryana
High
Fertility

Yield
62.5 q/ha

Tolerant to
BLB, WBPH

- Semi dwarf Non-scented variety with long slender grains
- Suitable for early and late planting
- Maturity 135 days (mid-early duration)
- Tolerant to Bacterial Leaf Blight (BLB) and WBPH, resistant to blast and brown spot
- High fertility paddy growing areas of Haryana
- **Average Yield** : 62.5 q/ha
- **Potential Yield** : 90.0 q/ha

Rice : HKR 126

Haryana
High
Fertility

Yield
67.5 q/ha

Resistant to
WBPH, Blast
& Stem rot

- Non-scented semi dwarf variety with long slender grains
- Suitable for early planting
- Maturity 140 days (medium duration)
- Tolerant to water stress
- Resistant to WBPH, stem rot, blast and brown spot, tolerant to BLB
- High fertility paddy growing areas of Haryana
- **Average Yield** : 67.5 q/ha
- **Potential Yield** : 100.0 q/ha



1992

S.O. 122 (E)
Dated 02.02.2005



Rice : Taraori Basmati

Haryana
Medium
Fertility

Yield
25 q/ha

Resistant to
WBPH
& Stem rot

1992

S.O. 1 (E)
Dated 01.01.1996

- Tall scented variety suitable for early planting
- Export quality variety long grained (7.1 mm) scented (Basmati) aromatic rice
- Photoperiod sensitive
- Matures in 145-155 days
- Resistant to stem rot and WBPH
- Medium fertility paddy growing areas of Haryana
- **Average Yield : 25 q/ha**
- **Potential Yield : 35 q/ha**

Rice : Haryana Basmati 1

Medium
Fertility

Yield
40 q/ha

Resistant
to Blast,
WBPH

- Photo insensitive semi dwarf scented variety suitable for timely planting
- Long slender grains
- Maturity 140 days (medium duration)
- Resistant to Blast & WBPH
- Medium fertility paddy growing areas of Haryana, Punjab and Western U.P.
- **Average Yield : 40 q/ha**
- **Potential Yield : 55 q/ha**



1991

S.O. 793 (E)
Dated 22.11.1991



1987

S.O. 471 (E)
Dated 05.05.1988

Rice : HKR 120

Haryana

Yield
62.5 q/ha

Resistant to
BLB, WBPH

- Non-scented semi-dwarf variety with long slender grains
- Suitable for early planting
- Medium duration (146 days)
- Resistant to BLB and WBPH
- High fertility paddy growing areas of Haryana
- **Average Yield : 62.5 q/ha**
- **Potential Yield : 90.0 q/ha**





Pearl Millet : HHB 311

National
A&B Zone

Yield
37.5 q/ha

Iron 83 ppm
Zinc 41 ppm

2020

S.O. 99 (E)
Dated 06.01.2020

- Medium-long conical, compact panicles
- Greyish hexagonal grains
- Maturity 75-80 days
- Average Grain Iron content - 83 ppm
- Average grain Zinc content - 41 ppm
- Resistant to downy mildew and insects
- National A&B Zone irrigated (Rajasthan, Gujarat, Haryana, Punjab, Delhi, Maharashtra and Tamil Nadu)
- **Average Yield** : 37.5 q/ha
- **Potential Yield** : 45.0 q/ha

Pearl Millet : HHB 299

National
A&B Zone

Yield
39.5 q/ha

Iron 73 ppm
Zinc 41 ppm

- Thick, compact, lanceolate panicles with hexagonal greyish grains
- Thick strong sturdy stem
- One of the first biofortified (high grain iron content 73 ppm) hybrid
- Maturity 75-81 days
- High grain iron content 73 ppm
- Zinc content of 41 ppm
- Resistant to downy mildew and blast
- National A&B Zone irrigated (Rajasthan, Gujarat, Haryana, Punjab, Delhi, Maharashtra and Tamil Nadu)
- **Average Yield** : 39.5 q/ha
- **Potential Yield** : 49.0 q/ha



2018

S.O. 1379 (E)
Dated 27.03.2018



Pearl Millet : HHB 272

National

Yield
37.3 q/ha

Resistant
Downy Mildew
& Blast

2016

S.O. 2238 (E)
Dated 30.06.2016

- Conicle shaped medium long compact panicles with greyish grains
- Maturity 65-68 days
- Early maturing, high grain and fodder yield
- Resistant to downy mildew and blast.
- National Rainfed (Rajasthan, Gujarat and Haryana)
- **Average Yield** : 37.3 q/ha
- **Potential Yield** : 44.8 q/ha

Pearl Millet : HHB 234

National
Zone A₁

Yield
31 q/ha

Resistant
Downy Mildew
& Blast

- Maturity 70-72 days
- Small bristles
- Candle shaped medium long panicles
- Resistant to downy mildew and blast
- National Zone A₁ (Drier parts of Rajasthan, Gujarat and Haryana)
- **Average Yield** : 31 q/ha
- **Potential Yield** : 45 q/ha



2013

S.O. 952 (E)
Dated 12.04.2013



Pearl Millet : HHB 226

National
Zone A₁

Yield
34 q/ha

Resistant
Downy Mildew

2011

S.O. 632 (E)
Dated 25.03.2011

- Maturity 70-72 days
- Brownish long bristles
- Stay green at maturity
- Resistant to downy mildew
- National Zone A₁ (Drier parts of Rajasthan, Gujarat and Haryana)
- **Average Yield** : 34 q/ha
- **Potential Yield** : 44 q/ha

Pearl Millet : HHB 223

National
Zone A

Yield
36 q/ha

Tolerant
to drought



- Maturity 70-75 days
- Long purple colored brown bristle
- Resistant to downy mildew
- Tolerant to drought
- National Zone A (Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP & MP) for irrigated and semi-irrigated areas
- **Average Yield** : 36 q/ha
- **Potential Yield** : 55 q/ha

2010

S.O. 211 (E)
Dated 29.01.2010



Pearl Millet : HHB 216

National
Zone A₁

Yield
35 q/ha

Resistant
Downy Mildew
Drought
tolerant

2010

S.O. 211 (E)
Dated 29.01.2010

- Maturity 69-73 days
- Long brownish bristle
- Resistant to downy mildew
- Highly tolerant to drought
- National (A₁ zone) for rainfed and restricted irrigated areas of Haryana, Rajasthan and Gujarat
- **Average Yield** : 35 q/ha
- **Potential Yield** : 50 q/ha

Pearl Millet : HHB 197

National

Yield
35 q/ha

Resistant
Downy Mildew
Drought
tolerant



- Maturity 68-72 days
- Highly resistant to downy mildew
- Tolerant to drought and long bristle on panicles
- National Zone (Rajasthan, Gujarat, Haryana, Punjab, Delhi, UP & MP) for rainfed as well as irrigated conditions
- **Average Yield** : 35 q/ha
- **Potential Yield** : 50 q/ha

2008

S.O. 72 (E)
Dated 10.01.2008



Pearl Millet : HHB 67 Improved

National

Yield
31 q/ha

Resistant
Downy Mildew
Drought
tolerant

2005

S.O. 1565 (E)
Dated 05.11.2005

- Maturity 62-65 days
- Good grain and fodder quality
- First hybrid involving male parent developed by Marker Assisted Selection and female improved by conventional backcrossing
- Highly resistant to downy mildew
- Tolerant to drought
- National for early to late sowing
- **Average Yield** : 31.0 q/ha
- **Potential Yield** : 37.5 q/ha

Pearl Millet : HHB 117

Haryana

Yield
34 q/ha

Resistant
Downy Mildew
Stay green

- Matures in 70-73 days
- Remains stay green at maturity
- Resistant to downy mildew, fairly tolerant to drought
- Best suited for rainfed and irrigated conditions of Haryana
- **Average Yield** : 34 q/ha
- **Potential Yield** : 39 q/ha



2004

S.O. 642 (E)
Dated 31.05.2004



Pearl Millet : HHB 146

National

Yield
37.5 q/ha

Resistant
Downy
Mildew

2003

S.O. 283 (E)
Dated 12.03.2003

- Maturity 75-80 days
- High grain and fodder productivity
- Responsive to fertilizer
- Resistant to downy mildew and fairly tolerant to drought and salt stress
- National for early planting
- **Average Yield : 37.5 q/ha**
- **Potential Yield : 55.0 q/ha**

Pearl Millet : HC 20

Haryana

Yield
31 q/ha

Resistant
Downy Mildew
Drought
tolerant

- Maturity 80-83 days
- High biomass
- Highly resistant to downy mildew
- Tolerant to drought
- For irrigated and rain fed conditions of Haryana
- **Average Yield : 31.0 q/ha**
- **Potential Yield : 35.0 q/ha**



2002

S.O. 937 (E)
Dated 04.09.2002



2000

S.O. 340 (E)
Dated 03.04.2000

Pearl Millet : HC 10

Haryana

Yield
29 q/ha

Resistant
Downy Mildew
& insects

- Maturity 75-80 days
- Resistant to downy mildew
- Multiple insect resistance and tolerant to diseases
- For irrigated and rain fed conditions of Haryana
- **Average Yield** : 29 q/ha
- **Potential Yield** : 33 q/ha

Pearl Millet : HHB 94

Haryana

Yield
35 q/ha

Resistant
Downy Mildew
Drought
tolerant

- Matures in 70-75 days
- Synchronous and very high tillering
- Resistant to downy mildew, tolerant to drought
- For high input conditions of Haryana
- **Average Yield** : 35 q/ha
- **Potential Yield** : 40 q/ha



2000

S.O. 340 (E)
Dated 03.04.2000



Pearl Millet : HHB 68

Haryana

Yield
30 q/ha

Resistant
Downy Mildew
Drought
tolerant

1993

S.O. 615 (E)
Dated 17.08.1993

- Matures in 62-65 days
- Resistant to downy mildew and tolerant to drought
- For early to late sowing in Haryana
- **Average Yield** : 30 q/ha
- **Potential Yield** : 35 q/ha

Pearl Millet : HHB 67

National

Yield
31 q/ha

Extra Early
maturing
Hybrid

- Matures in 60-62 days
- Extra early maturing wonder hybrid of world
- Fits well in inter and multiple cropping
- National for early to late sowing
- **Average Yield** : 31 q/ha
- **Potential Yield** : 36 q/ha



1990

S.O. 386 (E)
Dated 15.05.1990



Pearl Millet : HHB 60

Haryana

Yield
32.5 q/ha

Resistant
Downy Mildew
Drought &
Salt stress

1988

S.O. 1135 (E)
Dated 01.12.1988

- Matures in 74-76 days
- Highly productive and gives good quality fodder
- Resistant to downy mildew, drought and Salt stress
- For high input conditions of Haryana
- **Average Yield** : 32.5 q/ha
- **Potential Yield** : 37.5 q/ha

Pearl Millet : HHB 50

National

Yield
32.5 q/ha

Resistant
Downy Mildew
Drought
tolerant



- Matures in 76-80 days
- Highly productive and responsive to inputs
- Resistant to downy mildew, tolerant to drought
- National for high input conditions
- **Average Yield** : 32.5 q/ha
- **Potential Yield** : 40 q/ha

1987

S.O. 165 (E)
Dated 06.03.1987



1987

S.O. 295 (E)
Dated 09.04.1985

Pearl Millet : HC 4

National

Yield
28 q/ha

Resistant
Downy
Mildew

- Composite variety
- Matures in 85 days
- High biomass yield
- Resistant to downy mildew
- National for high input conditions
- **Average Yield** : 28 q/ha
- **Potential Yield** : 33 q/ha

Pearl Millet : HHB 45

Haryana

Yield
31 q/ha

Rainfed
conditions

- Matures in 82-85 days
- High yield potential
- For rainfed conditions of Haryana
- **Average Yield** : 31 q/ha
- **Potential Yield** : 36 q/ha



1985

S.O. 540 (E)
Dated 24.07.1985



Pearl Millet : HS 1

Haryana

Yield
27 q/ha

Resistant
Downy Mildew
Drought
tolerant

1978

S.O. 13 (E)
Dated 19.12.1978

- Synthetic/composite variety
- Matures in 75-80 days
- Resistant to downy mildew
- Tolerant to drought
- For rainfed conditions
- **Average Yield : 27 q/ha**
- **Potential Yield : 30 q/ha**



Felicitation of Breeders and Developers of Pearl millet variety HHB 311



2015

S.O. 268 (E)
Dated 28.01.2015

Maize : HM 13

National
Release

Green Cob
Yield
66.3 q/ha

High starch
content
(75%)

- Early maturing single cross hybrid
- High starch content (75%)
- Resistant to MLB and common rust
- Tolerant to stem borer
- National (J&K, H.P., Uttarakhand and NE hills) for *kharif* season
- **Average Grain Yield** : 66.3 q/ha in *Kharif*
- **Potential Grain Yield** : 90.0 q/ha

Maize : HM 12

National
Release

Average
Grain Yield
55 q/ha

White
Grain

- First public sector white grain single cross hybrid for Zone- III
- Medium maturity, Semi-dent and bold grain
- Resistant to MLB and tolerant to stem borer in *kharif*
- National (Eastern UP, Bihar, Jharkhand, W.B. & Orissa) for *kharif* season
- **Average Grain Yield** : 55 q/ha in *kharif*
- **Potential Grain Yield** : 95 q/ha



2012

S.O. 2125 (E)
Dated 10.09.2012



2011

S.O. 2137(E)
Dated 31.08.2010

Maize : HSC 1

National
Release

Average
Grain Yield
120 q/ha

Sweet
corn
hybrid

- Medium maturing sweet corn single cross hybrid
- Resistant to MLB and common rust
- National (H.P. and Uttarakhand) for *kharif* season
- **Average Yield** : 120 q/ha (green cob yield)
- **Potential Yield** : 145 q/ha (green cob yield)

Maize : HM 11

National
Release

Average
Grain Yield
60-65 q/ha

Suitable
for *kharif*
season

- Semi dent, yellow grain single cross hybrid
- High level of field resistance against major diseases and insect-pest (stem borer)
- National : Across the country for *kharif* season
- **Average Grain Yield** : 60-65 q/ha
- **Potential Grain Yield** : 105 q/ha



2009

S.O. 2187 (E)
Dated 27.08.2009



2008

S.O. 2458 (E)
Dated 16.10.2008

Maize : HM 10

National
Release

Average
Grain Yield
72-75 q/ha

Suitable
for Rabi
season

- Yellow grain single cross hybrid
- Resistant to rust and MLB
- Tolerant to pink stem borer and cold/frost
- National (Delhi, Punjab, Haryana, Western U.P., Rajasthan, M.P., Gujarat, Chattisgarh, Telangana, A.P., T.N., Maharashtra and Karnataka) for *rabi* season
- **Average Grain Yield** : 72-75 q/ha in *rabi*
- **Potential Grain Yield** : 110 q/ha

Maize : HM 9

National
Release

Average
Grain Yield
55-60 q/ha

Suitable
for *kharif*
season

- Medium maturing single cross hybrid
- Bold, attractive orange and flint grains
- Resistant to MLB and common rust
- Tolerant to frost/cold
- National (Eastern U.P., Bihar, W.B., Orissa, Jharkhand) for *kharif* season
- **Average Grain Yield** : 55-60 q/ha in *kharif*
- **Potential Grain Yield** : 90 q/ha



2007

S.O. 1703 (E)
Dated 05.11.2007



Maize : HM 8

National
Release

Average
Grain Yield
60-65 q/ha

Attractive
orange
grains

- Medium maturing single cross hybrid
- Attractive orange and flint grains
- Tolerant to frost/cold
- Tolerant to MLB & stem borer
- National- A.P., Karnataka, T.N., Maharashtra, Telangana
- **Average Grain Yield** : 60-65 in *kharif* and 67-72 q/ha in *rabi*
- **Potential Grain Yield** : 90 q/ha

2007

S.O. 1703 (E)
Dated 05.11.2007

Maize : HM 5

State
Release

Average
Grain Yield
60-65 q/ha

Suitable for
intercropping

- Late maturing very productive white dent maize hybrid
- Resistance to MLB and rust
- Tolerant to frost/cold
- Suitable for intercropping
- Haryana State for *kharif* and *rabi* season
- **Average Grain Yield** : 60-65 q/ha in *kharif* and 70-75 q/ha in *rabi*
- **Potential Grain Yield** : 115 q/ha



2004

S.O. 1177 (E)
Dated 25.08.2005



Maize : HM 4

National
Release

Average
Grain Yield
55-60 q/ha

Suitable for
baby corn as
well as grain
cultivation

2004

S.O. 1177 (E)
Dated 25.08.2005

- **First baby corn single cross hybrid in the country**
- Suitable for baby corn as well as grain
- Haryana State (for grain) and National (Punjab, Haryana, Delhi, Western Uttar Pradesh, Plains of Uttarakhand) (for baby corn cultivation) for *kharif* and *rabi* season
- **Average Grain Yield** : 55-60 q/ha in *kharif* and
67.5-72.5 q/ha in *rabi*
- **Average Baby Corn Yield** : 20 q/ha
- **Potential Grain Yield** : 90 q/ha

Maize : HHM 2

State
Release

Average
Grain Yield
52-57 q/ha

White flint
attractive
grain

- First white shining flint grain single cross hybrid in the country
- Medium maturity
- Haryana State for *kharif* and *rabi* season
- **Average Grain Yield** : 52-57 q/ha in *kharif* and
65-67.5 q/ha in *rabi*
- **Potential Grain Yield** : 73 q/ha



2001

S.O. 340 (E)
Dated 03.04.2000



2001

S.O. 340 (E)
Dated 03.04.2000

Maize : HHM 1

State
Release

Average
Grain Yield
52.5-55
q/ha

Drought
tolerant
hybrid

- Medium maturing single cross hybrid with yellow dent grain
- Drought tolerant
- Haryana State for *kharif* and *rabi* season
- **Average Grain Yield** : 52.5-55.0 q/ha in *kharif* and 60-65 q/ha in *rabi*
- **Potential Grain Yield** : 75.0 q/ha

High Quality Protein Maize Hybrids

Maize : HQPM 4

National
Release

Average
Grain Yield
55-60 q/ha

QPM hybrid
suitable for
silage also

- Late maturing QPM single cross hybrid with light orange grain
- Resistant to MLB and stem borer
- National: Across the country for *kharif* season
- **Average Grain Yield** : 55-60 q/ha
- **Potential Grain Yield** : 100 q/ha



2010

S.O. 2137 (E)
Dated 31.08.2010



2008

S.O. 2458 (E)
Dated 16.10.2008

High Quality Protein Maize Hybrids

Maize : HQPM 7

National
Release

Average
Grain Yield
76 q/ha

QPM
hybrid

- Late maturing QPM single cross hybrid
- Resistant to MLB and stem borer
- National (A.P., Karnataka, T.N., Maharashtra & Telangana) for *kharif* season
- **Average Grain Yield** : 76 q/ha
- **Potential Grain Yield** : 90 q/ha

High Quality Protein Maize Hybrids

Maize : HQPM 5

National
Release

Average
Grain Yield
60-65 q/ha

QPM hybrid
with orange
grain

- Medium late maturing single cross QPM hybrid
- Round and orange attractive grains
- Resistant to MLB, common rust and PFSR
- Tolerant to frost/cold
- National: Across the country for *kharif* and *rabi* season
- **Average Grain Yield** : 60-65 in *kharif* and
67.5-72.5 q/ha in *rabi*
- **Potential Grain Yield** : 95 q/ha



2007

S.O. 1703 (E)
Dated 5.11.2007



Maize : HQPM 1

National
Release

Average
Grain Yield
57-62 q/ha

QPM
hybrid with
yellow grain

2005

S.O. 1177 (E)
Dated 25.08.2005

- Medium late maturing first yellow grain QPM hybrid
- Resistant to major diseases (MLB & Common rust)
- National across the country for *kharif* and *rabi* season
- **Average Grain Yield** : 57-62 in *kharif* and 65-70 q/ha in *rabi*
- **Potential Grain Yield** : 105 q/ha

Inter-institutional maize hybrid

Maize: IM HQPM 1530

National

Average
Grain Yield
85 q/ha

Early
maturing
QPM hybrid

- Early maturing QPM hybrid developed by ICAR-IIMR, Ludhiana in collaboration with CCSHAU, Hisar
- Out of two parental lines (IML 343 × HKI 163) one (HKI 163) belong to CCSHAU Hisar
- Possesses high tryptophan (0.75–0.80 %) and lysine (3.0–3.50%) in endosperm protein.
- Moderately resistant to diseases (TLB, MLB, BLSB) and insect *Chilo partellus* under artificial epiphytotic conditions at hot-spot locations
- National (Jammu & Kashmir, Himachal Pradesh, Uttarakhand (Hill region), Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur and Arunachal Pradesh) for *Kharif* season
- **Average Grain Yield**: 85 q/ha
Potential Grain Yield: 90 q/ha



2020

S.O. 3482(E)
Dated 07.10.2020



2020

S.O. 99 (E)
Dated 06.01.2020

Inter-institutional maize hybrid

Maize: Pusa HQPM-7 Improved

National

Average
Grain Yield
74.5 q/ha

QPM hybrid
Provitamin A
& EDV

- Hybrid developed by ICAR-IARI, New Delhi in collaboration with CCSHAU, Hisar
- It is a QPM hybrid fortified with Provitamin A and EDV (Essentially Derived Variety), version of hybrid HQPM 7 (QPM hybrid)
- Possesses high provitamin A (7.10 ppm) as compared to 1.16 ppm after four months under traditional storage conditions
- Resistance against disease and insect pest at par with the original hybrid HQPM 7
- National (Maharashtra, Karnataka, Andhra Pradesh, Tamil Nadu, Telangana) for *Kharif* season
- **Average Grain Yield:** 74.5 q/ha
Potential Grain Yield: 93 q/ha

Inter-institutional maize hybrid

Maize: Pusa HQPM-5 Improved

National

Average
Grain Yield
62-65 q/ha

QPM hybrid
Provitamin A
& EDV

- Hybrid developed by ICAR-IARI, New Delhi in collaboration with CCSHAU, Hisar
- It is a QPM hybrid fortified with Provitamin A and EDV (Essentially Derived Variety), version of hybrid HQPM 5 (QPM hybrid)
- Possesses high provitamin A (6.77 ppm) as compared to 1.02 ppm after four months under traditional storage conditions
- Resistance against disease and insect pest at par with the original hybrid HQPM 5
- Across the country for *Kharif* season
- **Average Grain Yield:** 62-65 q/ha
Potential Grain Yield: 87 q/ha



2020

S.O. 99 (E)
Dated 06.01.2020



Inter-institutional maize hybrid Maize: DMRH 1305

National

Average
Grain Yield
65 q/ha

Resistant to
curvularia leaf
spot to
TLB, MLB

- Normal and light orange colored grain early maturing maize hybrid developed by ICAR-IIMR, Ludhiana in collaboration with CCSHAU, Hisar
- Out of two parental lines (V373×HKI 1105) one (HKI 1105) belong to CCSHAU Hisar
- Resistant to Curvularia leaf spot, moderately resistant to TLB, MLB, and to insect Chilo partellus under artificial epiphytotic conditions at hot-spot locations
- National (Jammu & Kashmir, Himachal Pradesh, Uttarakhand (Hill region), Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur and Arunachal Pradesh) for *Kharif* season
- **Average Grain Yield:** 65 q/ha
Potential Grain Yield: 75 q/ha

2018

S.O. 6318 (E)
Dated 26.12.2018

Inter-institutional maize hybrid Maize: IMHB 1539

National

Average
Baby corn
Yield
15 q/ha

Moderately
resistant to
multiple
diseases

- Baby corn hybrid developed by ICAR-IIMR, Ludhiana in collaboration with CCSHAU, Hisar
- Out of two parental lines (HKI 1105×IML 127-1) one (HKI 1105) belong to CCSHAU Hisar
- Moderately resistant (MR) to multiple diseases (TLB, MLB, BLSB and charcoal rot) and insect (Chilo partellus) under artificial epiphytotic conditions at hot-spots locations
- National (Jammu and Kashmir, Himachal Pradesh, Uttarakhand (Hill region), Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur and Arunachal Pradesh) for *Kharif* season
- **Average Baby corn Yield:** 15 q/ha
Potential Baby corn Yield: 18 q/ha



2018

S.O. 6318 (E)
Dated 26.12.2018



Inter-institutional maize hybrid **Maize: DMRH 1308**

National

Average
Grain Yield
90 q/ha

Resistant to
TLB &
Charcoal rot
diseases

2018

S.O. 399 (E)
Dated 24.01.2018

- Yellow maize hybrid developed by ICAR-IIMR, Ludhiana in collaboration with CCSHAU, Hisar
- Out of two parental lines (BML 6 × HKI 163) one (HKI 163) belong to CCSHAU Hisar
- Moderately resistant to TLB and Charcoal rot diseases under artificial epiphytotic conditions at hot-spot locations
- National (Rajasthan, Gujarat, Chhattisgarh and Madhya Pradesh) for Rabi season
- **Average Grain Yield:** 90 q/ha
Potential Grain Yield: 100 q/ha

Inter-institutional maize hybrid **Maize: Pusa HM 9 Improved**

National

Average
Grain Yield
52.01 q/ha

Possesses
high
tryptophan
(0.68%)

- Hybrid developed by ICAR-IARI, New Delhi in collaboration with CCSHAU, Hisar
- It is a QPM hybrid and EDV (Essentially Derived Variety), version of hybrid HM9 (normal single cross hybrid)
- Possesses high tryptophan (0.68%) and lysine (2.97%) in endosperm protein.
- Resistance against disease and insect pest at par with the original hybrid HM 9
- National (Bihar, Jharkhand, Odisha, Uttar Pradesh and West Bengal) for Kharif season
- **Average Grain Yield:** 52.01 q/ha
Potential Grain Yield: 88 q/ha



2017

S.O. 2805 (E)
Dated 25.08.2017



2017

S.O. 2805 (E)
Dated 25.08.2017

Inter-institutional maize hybrid

Maize: Pusa HM 8 Improved

National

Average
Grain Yield
62.58 q/ha

Possesses
high
tryptophan
(1.06%)

- Hybrid developed by ICAR-IARI, New Delhi in collaboration with CCSHAU, Hisar
- It is a QPM hybrid and EDV (Essentially Derived Variety), version of hybrid HM8 (normal single cross hybrid)
- Possesses high tryptophan (1.06%) and lysine (4.18%) in endosperm protein
- Resistance against disease and insect pest at par with the original hybrid HM 8
- National (Andhra Pradesh, Karnataka, Tamil Nadu and Maharashtra, Telangana) for Kharif season
- **Average Grain Yield:** 62.58 q/ha
Potential Grain Yield: 90 q/ha

Inter-institutional maize hybrid

Maize: Pusa HM 4 Improved

National

Average
Grain Yield
64.19 q/ha

Possesses
high
tryptophan
(0.91%)

- Hybrid developed by ICAR-IARI, New Delhi in collaboration with CCSHAU, Hisar
- It is a QPM hybrid and EDV (Essentially Derived Variety), version of normal single cross hybrid HM4
- Possesses high tryptophan (0.91%) and lysine (3.62%) in endosperm protein
- Resistance against disease and insect pest at par with the original hybrid HM 4
- National (Punjab, Haryana, Delhi, Western Uttar Pradesh and Plains of Uttarakhand) for Kharif season
- **Average Grain Yield:** 64.19 q/ha
Potential Grain Yield: 90 q/ha



2017

S.O. 2805 (E)
Dated 25.08.2017



2015

S.O. 2680 (E)
Dated 01.10.2015

Inter-institutional maize hybrid

Maize: Palam Sankar Makka I

National

Average
Grain Yield
60 q/ha

Moderately
resistant to
MLB & Chilo
partellus

- Yellow maize hybrid developed by CSKHPKV, HAREC, Bajaura in collaboration with CCSHAU, Hisar
- Out of two parental lines (HKI 1040-7 × BAJ 169-09-64), one (HKI 1040-7) belong to CCSHAU Hisar
- Moderately Resistant to MLB and Chilo partellus
- National (Jammu and Kashmir, Himachal Pradesh, Uttarakhand (Hill region), Meghalaya, Sikkim, Assam, Tripura, Nagaland, Manipur and Arunachal Pradesh) for Kharif season
- **Average Grain Yield : 60 q/ha**
Potential Grain Yield : 85 q/ha

Inter-institutional maize hybrid

Maize: Partap QPM Hybrid

National

Average
Grain Yield
54 q/ha

Moderately
resistant to
MLB

- Yellow QPM hybrid developed by Maha Rana Partap University of Agriculture and Technology, Udaipur, in collaboration with CCSHAU, Hisar
- Out of two parental lines (HKI 193-1 × DMR QPM 106) one (HKI 193-1) belong to CCSHAU Hisar
- Moderately Resistant to MLB under artificial epiphyotics conditions at hot-spot locations
- National (Rajasthan, Gujarat, Chhattisgarh and Madhya Pradesh) for Kharif season
- **Average Grain Yield : 54 q/ha**
Potential Grain Yield : 70 q/ha



2013

S.O. 2817 (E)
Dated 19.09.2013



2007

S.O. 1703 (E)
Dated 05.10.2007

Inter-institutional maize hybrid

Maize: Malviya Hybrid Makka-2

National

Average
Grain Yield
54 q/ha

Moderately
resistant to
MLB

- Yellow maize hybrid developed by BHU, Varanasi in collaboration with CCSHAU, Hisar
- Out of two parental lines (HUZM 185 × HKI 1105) one (HKI 1105) belong to CCSHAU Hisar
- Moderately Resistant to MLB under artificial epiphytotic conditions at hot-spot locations
- National (Eastern Uttar Pradesh, Bihar, Jharkhand, Chattisgarh, Orissa and West Bengal) for Kharif season
- **Average Grain Yield : 54 q/ha**
Potential Grain Yield : 75 q/ha



Agriculture Minister and Vice Chancellor Visit at RRS Karnal



2019

S.O. 3220 (E)
Dated 06.09.2019

Oilseed Crop

Indian Mustard : RH 761

National
Release

Average
Yield
26-27 q/ha

Bold
Seeded long
siliqua

- Long raceme having long siliqua
- Bold seed size
- 137-143 days maturity
- Oil content 40%
- National (Haryana, Punjab, Delhi, Jammu & Northern Rajasthan) for timely sown and rainfed conditions
- **Average Yield** : 26-27 q/ha
- **Potential Yield** : 35 q/ha

Oilseed Crop

Indian Mustard : RH 725

National
Release

Average
Yield
25-26 q/ha

Bold
Seeded long
siliqua

- Bold seeded
- Long and semi-appressed siliqua
- Oil content 40%
- National (Haryana, Punjab, Delhi, Jammu & Northern Rajasthan) for timely sown and rainfed conditions
- **Average Yield** : 25-26 q/ha
- **Potential Yield** : 36 q/ha



2018

S.O. 1379 (E)
Dated 27.03.2018



Oilseed Crop

Indian Mustard : RH 0749

National
Release

Average
Yield
26-28 q/ha

Bold
Seeded thick
siliquea

- Bold seeded
- Long and thick siliquea
- Oil content 39-40%
- National (Haryana, Punjab, Delhi, Jammu & parts of Rajasthan) for timely sown and irrigated conditions
- **Average Yield** : 26-28 q/ha
- **Potential Yield** : 34 q/ha

2013

S.O. 952 (E)
Dated 10.04.2013

Oilseed Crop

Indian Mustard : RH 0406

National
Release

Average
Yield
22-24 q/ha

Lodging
resistant

- Bold seeded
- Oil content 39-40%
- Lodging resistant
- National (Haryana, Punjab, Delhi, Jammu and parts of Rajasthan) for timely sown rainfed conditions
- **Average Yield** : 22-24 q/ha
- **Potential Yield** : 28 q/ha



2013

S.O. 2815 (E)
Dated 19.09.2013



Oilseed Crop

Indian Mustard : RH 0119

Haryana

Average
Yield
18-20 q/ha

Thermo
tolerant

- Thick and long siliqua
- Bold seeded
- Thermo-tolerant
- State for rainfed conditions
- **Average Yield** : 18-20 q/ha
- **Potential Yield** : 25 q/ha

2010

S.O. 2137(E)
Dated 31.08.2010

Oilseed Crop

Indian Mustard : RB 50

National
Release

Average
Yield
18-20 q/ha

Long main
raceme

- Long and bold siliqua with long main raceme
- Bold seeds
- Oil content 39%
- National for rainfed conditions
- **Average Yield** : 18-20 q/ha
- **Potential Yield** : 25 q/ha



2009

S.O. 2187 (E)
Dated 27.08.2009



Oilseed Crop

Indian Mustard : RB 24 (RB 9901)

National
Release

Average
Yield
17-20 q/ha

First
Tetralocular
variety

- First tetralocular variety
- Long main raceme
- Oil content 40%
- National for rainfed conditions
- **Average Yield** : 17.5-20 q/ha
- **Potential Yield** : 24 q/ha

2003

S.O. 283 (E)
Dated 12.03.2003

Oilseed Crop

Indian Mustard : Swarn Jyoti (RH 9801)

National
Release

Average
Yield
18-20 q/ha

Suitable
for late
sown

- Maturity 125-130 days
- Medium size seed
- Oil content 40%
- National for late sown irrigated condition
- **Average Yield** : 18-20 q/ha
- **Potential Yield** : 25 q/ha



2002

S.O. 283 (E)
Dated 12.03.2003



Oilseed Crop

Indian Mustard : Vasundhra (RH 9304)

National
Release

Average
Yield
24-26 q/ha

Moderately
thermo
tolerant

- Bold seeded
- Maturity 135-140 days
- Oil content 40%
- National for timely sown irrigated condition
- **Average Yield** : 24-26 q/ha
- **Potential Yield** : 30 q/ha

2002

S.O. 283 (E)
Dated 12.03.2003

Oilseed Crop

Indian Mustard : Laxmi (RH 8812)

Haryana

Average
Yield
22-25 q/ha

Thick
Siliquae

- Thick siliquae and bold seeded
- Oil content 40%
- Maturity 142 -145 days
- State for timely sown irrigated condition
- **Average Yield** : 22.5-25 q/ha
- **Potential Yield** : 30 q/ha



1996

S.O. 360 (E)
Dated 01.05.1997



Oilseed Crop

Indian Mustard : RH 781

National
Release

Average
Yield
18-20 q/ha

Frost
tolerant

1990

S.O. 527 (E)
Dated 16.08.1991

- Maturity 140 days
- Oil content 40%
- Tolerant to frost
- National for frost affected areas
- **Average Yield** : 18-20 q/ha
- **Potential Yield** : 26 q/ha

Oilseed Crop

Indian Mustard : RH 819

National
Release

Average
Yield
14 q/ha

Oil
content
40%

- Maturity 148 days
- Medium size seeds
- Oil content 40%
- National for rainfed areas
- **Average Yield** : 14 q/ha
- **Potential Yield** : 24 q/ha



1990

S.O. 527 (E)
Dated 16.08.1991



Oilseed Crop

Indian Mustard : Saurabh (RH 8113)

National
Release

Average
Yield
22-25 q/ha

Disease
resistant

1985

S.O. 165 (E)
Dated 06.12.1987

- Maturity 148-150 days
- Oil content 40%
- Tolerant to diseases
- National for timely sown irrigated condition
- **Average Yield** : 22.5-25 q/ha
- **Potential Yield** : 30 q/ha

Oilseed Crop

Indian Mustard : RH 30

Haryana

Average
Yield
20-22 q/ha

Wider
adaptability

- A milestone variety with wide adaptability
- Matures in 135-140 days
- Oil content 40%
- Suitable for intercropping
- State for rainfed and irrigated conditions; suitable for timely and late sown
- **Average Yield** : 20-22 q/ha
- **Potential Yield** : 28 q/ha



1983

S.O. 295 (E)
Dated 09.04.1985



Oilseed Crop

Indian Mustard : Parkash

Haryana

Average
Yield
20 q/ha

First
Raya
variety

1974

S.O. 786
Dated 21.02.1976

- Tall growing
- Medium size seeds
- Oil content 38%
- Maturity 150-155 days
- Haryana State for timely sown conditions
- **Average Yield** : 20 q/ha
- **Potential Yield** : 24 q/ha

Oilseed Crop

Rapeseed (Toria) : TH 68

Haryana

Average
Yield
14-15 q/ha

Early
maturing &
High oil

- Early maturing (95 days)
- Oil content 44%
- Suitable for toria-wheat rotation
- State for timely sown
- **Average Yield** : 14-15 q/ha
- **Potential Yield** : 18 q/ha



1990

S.O. 527 (E)
Dated 16.07.1991



Oilseed Crop

Rapeseed (Toria) : Sangam

Haryana

Average
Yield
15-17.5q/ha

High Oil
content

- Late maturing (112 days)
- Medium size seed
- Oil content 44%
- State for timely sown
- **Average Yield** : 15-17.5 q/ha
- **Potential Yield** : 20 q/ha

1974

S.O. 786
Dated 21.02.1976

Oilseed Crop

Taramira : T 27

Haryana

Average
Yield
6 q/ha

Drought
Diseases &
Insect pest
resistant

- Maturity 150 days
- Oil content 32%
- Drought, diseases and insect pest tolerant
- State for rainfed areas
- **Average Yield** : 6 q/ha
- **Potential Yield** : 8 q/ha



1974

S.O. 786
Dated 21.02.1976



2013

S.O. 952 (E)
Dated 10.04.2013

Oilseed Crop Sesame : HT 2

National
Zone-1

Average
Yield
7-8 q/ha

Phyllody &
Leaf curl virus
resistant

- Moderately resistant to phyllody and leaf curl virus
- Maturity 90 days
- White seeded
- National, Zone 1 (Jammu & Kashmir, Himachal Pradesh, Punjab, Haryana and Delhi)
- **Average Yield : 7-8 q/ha**
- **Potential Yield : 11 q/ha**

Oilseed Crop Sesame : HT 1

Haryana

Average
Yield
7 q/ha

White Seed
Oil content
49%

- White seeded
- Maturity 87 days
- Oil content 49%
- State for rainfed conditions
- **Average Yield : 7 q/ha**
- **Potential Yield : 10 q/ha**



1978

S.O. 13
Dated 19.12.1978



Oilseed Crop Castor : CH 1

Haryana

Average
Yield
18 q/ha

Suitable for
all soil type

- Dwarf
- Maturity 110 days
- Oil content 49%
- State for all soil types
- **Average Yield** : 18 q/ha
- **Potential Yield** : 24 q/ha

1978

S.O. 13
Dated 19.12.1978

Oilseed Crop Sunflower : HSFH 848

Haryana

Average
Yield
22-25 q/ha

Early
maturing
& Disease
tolerant

- Early maturing hybrid (95-100 days)
- Oil content 40%
- Tolerant to diseases
- State for timely and late sowing in spring season
- **Average Yield** : 22-25 q/ha
- **Potential Yield** : 28 q/ha



2005

S.O. 1566 (E)
Dated 05.11.2005



Oilseed Crop

Sunflower : Haryana Surajmukhi 1

Haryana

Average
Yield
20 q/ha

Composite
variety

- Composite variety
- Uniform and early maturing (90 days)
- 40% oil content
- State for timely and late sowing
- **Average Yield** : 20 q/ha
- **Potential Yield** : 25 q/ha

1994

Oilseed Crop

Yellow Sarson : YSH 0401

National
Release

Average
Yield
18-20 q/ha

High
Oil
content

- Wider adaptation
- Maturity 115-120 days
- Oil content 45%
- National for timely sown irrigated areas
- **Average Yield** : 18-20 q/ha
- **Potential Yield** : 20 q/ha



2008

S.O. 2187 (E)
Dated 27.08.2009



Oilseed Crop

Yellow Sarson : YSPb 24

Haryana

Average
Yield
9 q/ha

High
Oil
content

- Medium bold seeds
- Oil content 46%
- Maturity 150 days
- State for irrigated areas
- **Average Yield** : 9 q/ha
- **Potential Yield** : 13 q/ha

1966

S.O. 13
Dated 19.12.1978

Oilseed Crop

Brown Sarson : BSH 1

Haryana

Average
Yield
12.5 q/ha

High
Oil
content

- Medium plant height
- Bold seeded
- Oil content 45%
- Maturity 136 days
- State for rainfed areas
- **Average Yield** : 12.5 q/ha
- **Potential Yield** : 14.0 q/ha



1966

S.O. 786
Dated 21.02.1976



1988

S.O. 386 (E)
15.05.1990

Oilseed Crop

Groundnut : MH 4

Haryana

Average
Yield
32 q/ha

High
Oil
content

- Dwarf and bunch type
- Maturity 115 days
- Oil content 50%
- State for irrigated conditions
- **Average Yield** : 32 q/ha
- **Potential Yield** : 40 q/ha

Oilseed Crop

Groundnut : MH 2

Haryana

Average
Yield
30 q/ha

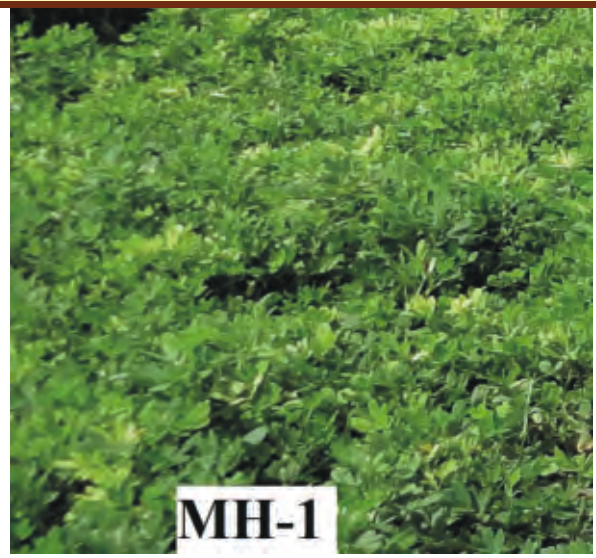
Dwarf &
Bunch type

- Dwarf bunch type
- Maturity 110 days
- State for irrigated conditions
- **Average Yield** : 30 q/ha
- **Potential Yield** : 40 q/ha



1974

S.O. 136
Dated 19.12.1978



1974

Oilseed Crop

Groundnut : MH 1

Haryana

Average
Yield
20 q/ha

Bunch
type

- Tall bunch type
- Maturity 120 days
- State for sandy loam, loam soils with irrigation facilities
- **Average Yield** : 20 q/ha
- **Potential Yield** : 25 q/ha



Visit of Vice Chancellor to the oilseed farm



2012

S.O.1708 (E)
Dated 26/07/2012

Pulse Crop

Kabuli Chickpea : HK 4

NEPZ

Bold
Seeded

Wilt
resistant

- Semi-erect with dark foliage
- Bold seeded
- Resistant to wilt
- Released for cultivation at National level (Eastern UP, Bihar, Jharkhand, W. Bengal, Orissa)
- **Average Yield** : 15.0 q/ha
- **Potential Yield** : 20.6 q/ha

Pulse Crop

Kabuli Chickpea : HK 2

National

Bold
Seeded

Tolerant to
Wilt & Root
diseases

- Bold seeded, light green foliage
- Tolerant to wilt and root diseases
- Released for cultivation at National level (Eastern UP, Bihar, Jharkhand, W. Bengal, Orissa and Haryana) for irrigated areas
- **Average Yield** : 18-20 q/ha
- **Potential Yield** : 25.0 q/ha



2005

S.O. 122 (E)
Dated 02/02/2005



HK-1

2002

S.O. 937 (E)
Dated 04.09.2002

Pulse Crop

Kabuli Chickpea : HK 1

Medium
Seed

Semi
spreading

Resistant
to Fusarium
Wilt

- Medium size grain
- Resistant to wilt and root rot
- Release for cultivation in Haryana state for irrigated areas
- Resistant to Fusarium wilt
- **Average Yield : 20-25 q/ha**
- **Potential Yield : 40.9 q/ha**

Pulse Crop

Desi (Brown) Chickpea : HC 7

National

Yield
20-25 q/ha

Suitable
for
late sown

- Notified for cultivation in Punjab, Haryana, Western Uttar Pradesh, Delhi, North Rajasthan, Jammu and Kashmir, plains of Himachal Pradesh and Uttarakhand
- Suitable for late sown (last week of November to 2nd week of Dec)
- Plant height varies between 54-70 cm
- Mature in 127 days
- **Average Yield : 20-25 q/ha**
Potential Yield : 40 q/ha



2019

S.O. 99(E)
Dated 06.01.2020



2005

S.O. 1566 (E)
Dated 05/11/2005

Pulse Crop

Desi (Brown) Chickpea : HC 5

Erect
Compact
Plants

Most suitable
for mechanical
harvesting

Suitable
for
intercropping

- Erect, compact and tall plants
- Early vigour, stable
- Resistant to wilt and root diseases
- Suitable specific adaptation to sugarcane-chickpea intercropping
- Release for cultivation in Haryana state for irrigated areas under normal/late sown conditions
- Resistant to Fusarium wilt and root rot
- **Average Yield** : 21-25 q/ha
- **Potential Yield** : 48.9 q/ha

Pulse Crop

Desi (Brown) Chickpea : HC 3

Bold
Seeded

Wilt
resistant

Salinity
tolerant

- Semi-erect, bold seeded, light brown color.
- Resistant to wilt, Aschochyter blight stunt, & root rot
- Suitable for cultivation in irrigated areas of Haryana
- Tolerant to Salinity
- **Average Yield** : 13-14 q/ha
- **Potential Yield** : 16-17 q/ha



2000

S.O. 340 (E)
Dated 03.04.2000



1990

S.O. 386 (E)
Dated 15.05.1990

Pulse Crop

Desi (Brown) Chickpea : HC 1

Wilt
resistant

Suitable
for timely &
Late sowing

Suitable
for rainfed
& irrigated

- Early maturing (145 days)
- Very attractive seeds of medium size with a long beak
- Resistant to wilt
- Released for cultivation at National level (NWPZ) for rainfed and irrigated, normal as well as late sown conditions
- **Average Yield** : 20-25 q/ha
- **Potential Yield** : 29.9 q/hab

Pulse Crop

Desi (Brown) Chickpea : Gora Hisari

Medium
Seed

Good
for culinary
purpose

Wilt
resistant



- Medium seed size
- Good for culinary purposes
- Maturity 155 days
- Release for cultivation in Haryana state for irrigated conditions
- **Average Yield** : 20 q/ha

1988



1985

S.O. 295 (E)
Dated 09.04.1985

Pulse Crop

Desi (Brown) Chickpea : Gaurav

Bold Seeded

Large pods

Ascochyta blight resistant

- Bold seeded desi variety
- Large pods
- Resistant to Ascochyta blight and wilt
- Released for cultivation at National level for irrigated conditions
- **Average Yield : 22 q/ha**

Pulse Crop

Desi (Brown) Chickpea : H 208

National (CZ)

Small Seed

Drought & Wilt tolerant



- Brownish yellow small seeds
- Tolerant to drought and wilt
- Released for cultivation at National level (CZ) for rainfed areas
- Resistant to wilt
- **Average Yield : 20 q/ha**

1978

S.O. 13 (E)
Dated 19.12.1978



Pulse Crop

Desi (Brown) Chickpea : H 355

Brownish
yellow
Seed

Small
Seed

Wilt
tolerant

1978

S.O. 13 (E)
Dated 19.12.1978

- Brownish yellow small seeded
- Suitable for wilt prone irrigated areas
- Release for cultivation in Haryana state for irrigated areas
- **Average Yield** : 20-22 q/ha

Pulse Crop

Desi (Brown) Chickpea : C 235

Wide
Adaptability

Small
Seed

Ascochyta
Blight
tolerant

- Yellowish brown small seeds
- Maturity 150 days
- Tolerant to Ascochyta blight
- Release for cultivation in Haryana state for irrigated areas
- **Average Yield** : 20 q/ha



1976

S.O. 440 (E)
Dated 02.02.1976



2021

S.O. 500 (E)
Dated 29.01.2021

Pulse Crop

Fieldpea : HFP 1428

National
(NWPZ)

Diseases
resistant

Lodging
resistant

- Notified for rabi season in North West Plain zone of India (Punjab, Haryana, Delhi, Rajasthan, Uttarakhand, parts of J&K and western Uttar Pradesh)
- High yielding dwarf variety which matures in about 123 days.
- Resistant to Powdery mildew, Ascochyta blight and Root rot and moderately resistant to Rust.
- Resistant to lodging.
- **Average Yield** : 26-28 q/ha
- **Potential Yield** : 39-40 q/ha

Pulse Crop

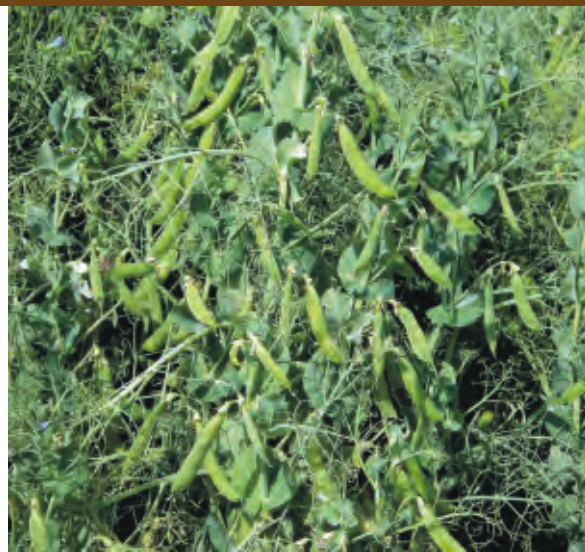
Fieldpea : HFP 715

Early
Maturing

Dwarf
Leafletless

Diseases
& lodging
resistant

- Dwarf, leafletless
- Medium bold cream coloured seeds
- Tolerant to rust and resistant to powdery mildew
Resistant to lodging
- Released for cultivation at National level (Himachal Pradesh, J&K, Hills of UK and NE Hill states)
- **Average Yield** : 15-16 q/ha
- **Potential Yield** : 30-32 q/ha



2014

S.O.1919 (E)
Dated 31.07.2014



2012

S.O.1708 (E)
Dated 26.07.2012

Pulse Crop

Fieldpea : HFP 529

Early
Maturing

Dwarf

Resistant
to diseases

- Dwarf, early maturing, medium bold cream coloured seeds
- Resistant to rust & Ascochyta blight, tolerant to powdery mildew. Moderately resistant to pod borer
- Released for cultivation at National level (Western UP, Northern Rajasthan, Punjab, Delhi, Haryana and Plain of UK)
- **Average Yield** : 28-30 q/ha
- **Potential Yield** : 35 q/ha

Pulse Crop

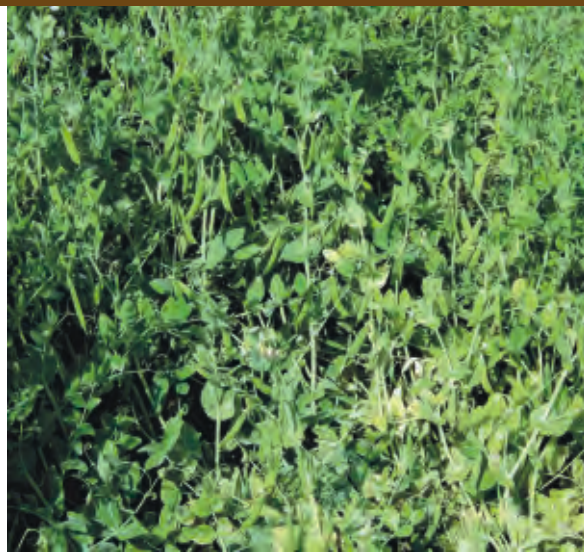
Fieldpea : HFP 9426

Tall
Stature

Sweet
Dual
purpose

Disease
resistant

- Tall stature
- Shining green, bold and round seeded
- Resistant to powdery mildew and tolerant to rust
- Release for cultivation in Haryana state for irrigated conditions
- **Average Yield** : 25 q/ha
- **Potential Yield** : 30 q/ha



2008

S.O.2458 (E)
Dated 16/10/2008



2007

S.O.122(E)
Dated 6/2/2007

Pulse Crop

Fieldpea : Hariyal (HFP 9907B)

Tall
variety

Dual
purpose

Long
pods

- Dual purpose tall variety
- Long pods with green seeds
- Resistant to powdery mildew and tolerant to rust and nematode
- Release for cultivation in National regions (Western UP, Northern Rajasthan, Punjab, Delhi, Haryana and Plain of UK) for normal sown irrigated condition
- **Average Yield** : 25-30 q/ha
- **Potential Yield** : 35 q/ha

Pulse Crop

Fieldpea : Jayanti (HFP 8712)

Dwarf
leafletless

Dual
purpose

Long pods
lodging &
disease
resistant

- First dual purpose variety
- Dwarf, leafletless variety
- Long pods, bold seeded
- Resistant to powdery mildew
- Release for cultivation in Haryana state for irrigated conditions
- **Average Yield** : 27 q/ha
- **Potential Yield** : 32 q/ha



1998

S.O.401(E)
Dated 15/5/1998



1997

S.O.360(E)
Dated 1/5/1997

Pulse Crop

Fieldpea : Uttara (HFP 8909)

Dwarf
leafletless

Lodging
& diseases
resistant

Cream
round
seeds

- Dwarf, leafletless and erect variety
- Round, medium sized and creamish seed
- Resistant to lodging
- Resistant to powdery mildew
- Released for cultivation at National level (NWPZ): (Western UP, Northern Rajasthan, Punjab, Haryana and Plain of UK and Northern Hill Zone: (Himachal Pradesh, J&K, Hills of UK and NE Hill states)) for irrigated conditions
- **Average Yield** : 25-30 q/ha
- **Potential Yield** : 32 q/ha

Pulse Crop

Fieldpea : Aparna (HFP 4)

First Dwarf
leafletless
variety of
India

Dwarf
& erect

Lodging &
disease
resistant

- First dwarf and leafletless variety in the country
- Resistant to lodging
- Medium sized cream seeds
- Tolerant to powdery mildew
- Released for cultivation at National level (Western UP, Northern Rajasthan, Punjab, Delhi, Haryana and Plain of UK) for irrigated conditions
- **Average Yield** : 25 q/ha
- **Potential Yield** : 32 q/ha



1988

S.O.10 (E)
Dated 1/1/1988



2006

S.O. 599 (E)
Dated 25.4.2006

Pulse Crop

Lentil : HM 1

Small
seeded

Wide
adaptation

Disease
resistant

- Small seeded
- Light green leaves
- Widely adapted
- Moderately resistant to diseases and insect pest
- Release for cultivation in Haryana state for normal sown irrigated conditions
- **Average Yield : 18 q/ha**
- **Potential Yield : 25 q/ha**

Pulse Crop

Lentil : Garima

Bold
Seeded

Dark
green
leaves

Disease
resistant

- Bold seeded
- Dark green leaves,
- Fairly resistant to all the insect-pests and diseases prevalent in the Haryana
- Release for cultivation in Haryana state for irrigated and timely sown condition
- **Average Yield : 16 q/ha**
- **Potential Yield : 20 q/ha**



1997

S.O. 360 (E)
Dated 01.05.1997



Pulse Crop **Lentil : Sapna**

Bold Seeded

Wide stability

Disease resistant

1991

S.O.793(E)
Dated 22.11.91

- Bold seeded
- Resistant to diseases
- Stable in performance
- Released for cultivation at National level (Western UP, Northern Rajasthan, Punjab, Haryana and Plain of UK) for irrigated condition
- **Average Yield : 15 q/ha**
- **Potential Yield : 20-22 q/ha**

Pulse Crop **Mung Bean : MH 1142**

National

Wide adaptation

MYMV, PM & Root rot resistant

- Notified for *kharif* season in North West and North East Plain zones of India (Uttar Pradesh, Punjab, Haryana, Delhi, Rajasthan, Uttarakhand, Bihar, Jharkhand, West Bengal and Assam)
- High yielding disease resistant variety semi-erect plants which matures in 63-70 days.
- Pods are black and seeds are medium sized green and shiny.
- Moderately resistant to anthracnose and powdery mildew diseases
- **Average Yield : 12 q/ha**
Potential Yield : 20 q/ha



2020

S.O. 3482 (E)
Dated 7.10.2020



Pulse Crop

Mung Bean : MH 318

Early
maturing

Suitable for
spring, summer
& kharif

Erect

2015

S.O. 2680(E)
Dated 1.10.2015

- Erect plant type
- Resistant to shattering and moderately resistant to MYMV
- Matures in < 60 days
- Medium bold, shining green seeds
- Release for cultivation in Haryana state for spring, summer and *kharif* cultivation
- **Average Yield** : 10-12 q/ha in summer and 14-16 q/ha in *kharif*
- **Potential Yield** : 15 q/ha in summer and 20-21 q/ha in *kharif*

Pulse Crop

Mung Bean : MH 421

Early
maturing

Suitable for
spring, summer
& kharif

MYMV
resistant

- Medium-dwarf
- Short duration (60 days)
- Non-shattering
- Resistant to Mungbean Yellow Mosaic Virus
- Medium bold shining green seeds
- Released for cultivation at National level (Western UP, N. Rajasthan, Punjab, Haryana and Plains of Uttarakhand) for spring and summer
- Haryana for spring, summer and *kharif* cultivation
- **Average Yield** : 10-12 q/ha in summer and 14-16 q/ha in *kharif*
- **Potential Yield** : 15 q/ha in summer and 20-21 q/ha in *kharif*



2014

S.O. 1146 (E) } For
Dated 25.04.2014 } NWPZ

2012

S.O. 1708(E) } For
Dated 26.07.2012 } Haryana



MH 1-25 (BASANTI)

2010

S.O.211 (E)
Dated 29.01.2010

Pulse Crop

Mung Bean : Basanti

Suitable
for spring &
kharif

High
protein

MYMV
resistant

- Tall growing
- Matures in 65 days
- Possess high protein content
- Resistant to MYMV
- Release for cultivation in Haryana state for *kharif* and spring seasons
- **Average Yield** : 15-17 q/ha
- **Potential Yield** : 18-20 q/ha

Pulse Crop

Mung Bean : Sattya

Tall

Green
shiny
Seeds

MYMV
resistant

- Tall growing
- Bright green seeds
- Matures in 70 days
- Resistant to MYMV
- Released for cultivation at National level (Western UP, N. Rajasthan, Punjab, Haryana and Plains of Uttarakhand) for *kharif* season
- **Average Yield** : 16-17 q/ha
- **Potential Yield** : 20 q/ha



MH 2-15 (SATTYA)

2008

S.O.72 (E)
Dated 10.1.2008



2004

S.O. 161 (E)
Dated 4.2.2004

Pulse Crop

Mung Bean : Muskan (MH 96-1)

Medium
maturing

Suitable
for spring &
kharif

MYMV
resistant

- Medium sized bright green seeds
- Resistant to Yellow Mosaic Virus
- Medium maturity
- Release for cultivation in Haryana state for *kharif* and spring seasons
- **Average Yield** : 14.5 q/ha

Pulse Crop

Mung Bean : Asha

Tall

Semi
Spreading

MYMV
resistant

- High yielding
- Widely adaptable
- Resistant to Yellow Mosaic Virus
- Release for cultivation in Haryana state for *Kharif* season disease
- **Average Yield** : 14 q/ha



1993

S.O. 615 (E)
Dated 17.08.1993



1998

S.O. 401 (E)
Dated 15.05.1998

Pulse Crop

Pigeonpea : Paras

In-
determinate
semi-
spreading

Wide
adaptability

High
yield

- In-determinate in growth and semi-spreading type with wide adaptation
- Matures in 133-140 days, early vigour
- Release for cultivation in Haryana state for Pigeonpea - Wheat rotation
- **Average Yield** : 18-20 q/ha
- **Potential Yield** : 23 q/ha

Pulse Crop

Pigeonpea : Manak

In-
determinate
semi-
spreading

Early
maturing

High
yield

- Early maturing variety
- Medium in height (130-135 days)
- In-determinate, semi-spreading & good yielder
- Release for cultivation in Haryana state for Pigeonpea - Wheat rotation
- **Average Yield** : 18-19 q/ha
- **Potential Yield** : 22 q/ha



1985

S.O. 832 (E)
Dated 19.11.85



Pulse Crop

Urd Bean : UH 1

Semi-spreading

Medium maturity

MYMV resistant

2012

S.O. 1728 (E)
Dated 26.07.2012

- Higher yield, medium plant height
- Matures in 73-75 days
- Semi spreading plant type, attractive seeds
- Highly resistant to Yellow Mosaic Virus (YMV)
- Release for cultivation in Haryana state for *kharif* season



Visit of Vice Chancellor to Pulses area



2018

S.O. 6318 (E)
Dated 26.12.2018

American Cotton Variety : HS 292

South
Zone

Yield
23.2 q/ha

GOT
35.5%

- Plant height 130-150 cm with big boll
- Maturity 160-170 days
- South zone in the states of Andhra Pradesh, Telangana, Tamil Nadu and Karnataka
- Ginning out turn 35.5%
- Fibre length 27.0 mm
- Moderately resistant to insect pest.
- **Average Yield** : 23.2 q/ha
- **Potential Yield** : 31.00 q/ha

American Cotton Variety : H 1353

Central
Zone

Yield
13.7 q/ha

GOT
35.3%

- Plant height 130-150 cm
- Maturity 165-170 days
- Central zone (Maharashtra, M.P. and Gujarat) rainfed conditions
- Ginning out turn 35.2%
- Fibre length 24.3mm
- Tolerant to insect-pests and CLCuV
- **Average Yield** : 13.7 q/ha
- **Potential Yield** : 28.3 q/ha



2015

S.O. 2680 (E)
Dated 01.10.2015



2012

S.O. 1708 (E)
Dated 26.07.2012

American Cotton Variety : H 1300

North
Zone

Yield
22.9 q/ha

GOT
36.3%

- Plant height 120-150cm
- Maturity 165-170 days
- North Zone (Haryana, Punjab, Rajasthan and U.P.) irrigated conditions
- Ginning out turn 36.3%
- Fibre length 26.1 mm
- Tolerant to CLCuV
- **Average Yield** : 22.9 q/ha
- **Potential Yield** : 34.8 q/ha

American Cotton Variety : H 1098-i

Haryana

Yield
20.6 q/ha

GOT
39.9%

- Plant height 130-140 cm
- Maturity 165-170 days
- Irrigated conditions of Haryana
- Ginning out turn 39.9%
- Fibre length 24.8 mm
- Resistant to CLCuV
- **Average Yield** : 20.6 q/ha
- **Potential Yield** : 37.5 q/ha



2010

S.O. 2136 (E)
Dated 31.08.2010



2010

S.O. 2136 (E)
Dated 31.08.2010

American Cotton Variety : H 1236

Haryana

Yield
19.8 q/ha

GOT
37.2%

- Plant height 130-150cm
- Maturity 165-170 days
- Recommended for Haryana State
- Ginning out turn 37.2%
- Fibre length 27.2 cm
- Tolerant to CLCuV
- **Average Yield** : 19.8 q/ha
- **Potential Yield** : 28.5 q/ha

American Cotton Variety : H 1226

Haryana

Yield
23.8 q/ha

GOT
33.7%

- Plant height 155-160cm
- Maturity 170-175 days
- Recommended for Haryana state
- Ginning out turn 33.7%
- Fibre length 24.5 mm
- Moderately resistant to insect pest
- **Average Yield** : 23.8 q/ha
- **Potential Yield** : 42.9 q/ha



2006

S.O. 1178 (E)
Dated 20.07.2006



2002

S.O. 937 (E)
Dated 04.09.2002

American Cotton Variety : H 1117

Haryana

Yield
19.2 q/ha

GOT
35.5%

- Plant height 150-160 cm
- Maturity 175-185 days
- Early sowing, irrigated conditions of Haryana
- Ginning out turn 35.5%
- Fibre length 24.1 mm
- Moderately resistant to CLCuv
- **Average Yield** : 19.2 q/ha
- **Potential Yield** : 37.0 q/ha

American Cotton Variety : H 1098

Haryana

Yield
19.5 q/ha

GOT
35.2%

- Plant height 125-130 cm
- Maturity 160-165 days
- late sown, irrigated conditions of Haryana
- Ginning out turn 35.2%
- Fibre length 22.7mm
- Less infestation of bollworms and leaf hopper
- **Average Yield** : 19.5 q/ha
- **Potential Yield** : 37.0 q/ha



1997

S.O. 360 (E)
Dated 01.05.1997



1993

S.O. 615 (E)
Dated 17.08.1993

American Cotton Variety : HS 6

Haryana

Yield
23.5 q/ha

GOT
36.5%

- Plant height 150-160 cm
- Maturity 180-185 days
- Early sown, irrigated conditions of Haryana
- Ginning out turn 36.5%
- Fibre length 23.6 mm
- Resistant to Jassid and susceptible to CLCuV
- **Average Yield** : 23.5 q/ha
- **Potential Yield** : 41.0 q/ha

American Cotton Variety : H 974

Haryana

Yield
22.4 q/ha

GOT
36.0%

- Plant height 130-140 cm
- Maturity 155-165 days
- Late sown conditions of Haryana
- Ginning out turn 36.0%
- Fibre length 24.2 mm
- Moderately resistant to insect pests
- **Average Yield** : 22.4 q/ha
- **Potential Yield** : 36.6 q/ha



1993

S.O. 615 (E)
Dated 17.08.1993



1988

S.O. 1135 (E)
Dated 01.12.1988

American Cotton Variety : HS 45

Haryana

Yield
20.0 q/ha

GOT
34.0%

- Plant height 120-160 cm
- Maturity 180-190 days
- Recommended for Haryana state.
- Ginning out turn 34.0%
- Fibre length 24.0 mm
- Resistant to jassids
- **Average Yield** : 20.0 q/ha
- **Potential Yield** : 28.1 q/ha

American Cotton Variety : H 655C

Haryana

Yield
16.0 q/ha

GOT
33.2%

- Plant height 150-155 cm
- Maturity 210-215 days
- Recommended for Haryana state
- Ginning out turn 33.2%
- Fibre length 27.4 mm
- Resistant to jassids
- **Average Yield** : 16.0 q/ha
- **Potential Yield** : 23.5 q/ha



1978

S.O. 13 (E)
Dated 19.12.1978



1978

S.O. 13 (E)
Dated 19.12.1978

American Cotton Variety : H 777

Haryana

Yield
23.0 q/ha

GOT
34.6%

- Plant height 120-150 cm
- Maturity 180-190 days
- Recommended for Haryana state
- Ginning out turn 34.6%
- Fibre length 23.4mm
- Resistant to jassids
- **Average Yield** : 23.0 q/ha
- **Potential Yield** : 32.0 q/ha

American Cotton Hybrids : HHH 287

Haryana

Yield
20.5 q/ha

GOT
34.8%

- Plant height 150-160 cm
- Maturity 160-170 days
- Recommended for Haryana state
- Ginning out turn 34.8%
- Fibre length 27.1 mm
- Resistant to CLCuV
- **Average Yield** : 20.5 q/ha
- **Potential Yield** : 32.8 q/ha



2005

S.O. 1566 (E)
Dated 05.11.2005



2002

S.O. 937 (E)
Dated 04.09.2002

American Cotton Hybrids : HHH 223

Haryana

Yield
21.5 q/ha

GOT
35.2%

- Plant height 150-160 cm
- Maturity 175-180 days
- Recommended for Haryana
- Ginning out turn 35.2%
- Fibre length 22.5 mm
- Resistant to Jassid and CLCuV
- **Average Yield** : 21.5 q/ha
- **Potential Yield** : 40.0 q/ha

American Cotton Hybrids : HHH 81

Haryana

Yield
24.7 q/ha

GOT
35.0%

- Plant height 180-200 cm
- Maturity 175-185 days
- Recommended for Haryana state
- Ginning out turn 35.0%
- Fibre length 26.8 mm
- Moderately resistant to diseases
- **Average Yield** : 24.7 q/ha
- **Potential Yield** : 40.9 q/ha



1996

S.O. 1 (E)
Dated 1.1.1996



2010

S.O. 2137 (E)
Dated 31.08.2010

Desi Cotton Variety : HD 432

Haryana

Yield
21.5 q/ha

GOT
39.3%

- Plant height 170-180 cm
- Maturity 160-170 days
- Recommended for Haryana State
- Ginning out turn 39.3%
- Fibre length 21.2 mm
- Lodging resistant, shedding of Kapas is very less
- Tolerant to bollworm and Fusarium wilt
- **Average Yield** : 21.5 q/ha
- **Potential Yield** : 38.6 q/ha

Desi Cotton Variety : HD 324

Haryana

Yield
20.0 q/ha

GOT
41.6%

- Plant height 160-170 cm
- Maturity 170-175 days
- Recommended for Haryana
- Ginning out turn 41.6%
- Fibre length 17.8 mm
- Moderately tolerant to insect pest and disease
- **Average Yield** : 20.0 q/ha
- **Potential Yield** : 32.9 q/ha



2005

S.O. 1566 (E)
Dated 05.11.2005



2000

S.O. 340 (E)
Dated 05.04.2000

Desi Cotton Variety : HD 123

Haryana

Yield
22.9 q/ha

GOT
39.2%

- Plant height 150-160 cm
- Maturity 165-175 days
- Recommended for Haryana
- Ginning out turn 39.2%
- Fibre length 14.7 mm
- Resistant to CLCuV moderately resistant to pink bollworm and heliothis
- **Average Yield** : 22.9 q/ha
- **Potential Yield** : 32.4 q/ha

Desi Cotton Variety : HD 107

Haryana

Yield
26.0 q/ha

GOT
38.0%

- Plant height 150-160 cm
- Maturity 180 days
- Recommended for Haryana
- Ginning out turn 38.0%
- Fibre length 18.6 mm
- Resistant to jassids
- **Average Yield** : 26.0 q/ha
- **Potential Yield** : 35.0 q/ha



1996

S.O. 1 (E)
Dated 01.01.1996



1988

S.O. 471 (E)
Dated 05.05.1988

Desi Cotton Variety : DS 5

Haryana

Yield
22.8 q/ha

GOT
40.0%

- Plant height 150-170 cm
- Maturity 165-175 days
- Recommended for Haryana state
- Ginning out turn 40.0%
- Fibre length 17.5 mm
- Highly resistant to jassids and moderately pink bollworm
- **Average Yield** : 22.8 q/ha
- **Potential Yield** : 32.1 q/ha

Desi Cotton Variety : DS 1

Haryana

Yield
20.0 q/ha

GOT
39.0%

- Plant height 150-190 cm
- Maturity 170-185 days
- Recommended for Haryana state
- Ginning out turn 39.0%
- Fibre length 17.9 mm
- Highly resistant to jassids and moderately resistant to pink bollworm
- **Average Yield** : 20.0 q/ha
- **Potential Yield** : 31.6 q/ha



1985

S.O. 832 (E)
Dated 18.11.1985



1999

S.O. 425 (E)
Dated 08.06.1999

Desi Cotton Hybrid : AAH-1

Haryana

Yield
23.9 q/ha

GOT
38.0%

- Plant height 150-160 cm
- maturity 180-185 days
- Recommended for Haryana
- Ginning out turn 38.0%
- Fibre length 18.4 mm
- Resistant to Jassids and CLCuV
- **Average Yield** : 23.9 q/ha
- **Potential Yield** : 48.0 q/ha



Visit of Vice Chancellor to Cotton area



Sugarcane : CoH 128

National

Yield
762 q/ha

CCS
12.19%

- National (North West Peninsular Zone)
- Mid late maturing, prone to lodging under high fertility, good ratooner, tolerant to water stress, suitable for late planting
- Commercial cane sugar (CCS)- 12.19 %, Sucrose- 17.77 %
- Moderately resistant to red rot disease
- **Average Yield : 762 q/ha**
- **Potential Yield : 980 q/ha**

2012

S.O. 45(E)
Dated 16.03.2012

Sugarcane : CoH 110

Haryana

Yield
800 q/ha

CCS
14.21%



- Haryana State
- Round bud, Bud groove present, waxy green sheath colour
- Late maturity, excellent ratooner, suitable for spring and late planting, low input-require half of the recommended dose of nitrogen
- Commercial cane sugar (CCS)- 14.21 %, Sucrose-17.60 %
- Resistant to red rot, smut and grassy shoot disease
- **Average Yield : 800 q/ha**
- **Potential Yield : 1000 q/ha**

2005

S.O. 1566(E)
Dated 05.11.2005



Sugarcane : CoH 119

National
(NWPZ)

Yield
800 q/ha

CCS
13.40%

2005

S.O. 1566(E)
Dated 05.11.2005

- National (North West Peninsular Zone)
- Small bud, bud groove absent, easy trashing, thick rind and solid juicy cane
- Medium maturity, non-Lodging, good ratooner, tolerant to water stress, good combination of cane yield and juice quality
- Commercial cane sugar (CCS)-13.40 %, Sucrose-17.51%
- Resistant to red rot Disease, tolerant to top borer and shoot borer
- **Average Yield** : 800 q/ha
- **Potential Yield** : 950 q/ha

Sugarcane : CoH 92

National
(NWPZ) /
Haryana

Yield
625 q/ha

CCS
14.70%

- Haryana State-1999
- National (North West Peninsular Zone)-2001
- Medium thick and soft cane, medium bud size, fast growing
- Early maturity, low tillering, average ratooner, tolerant to drought and frost
- Commercial cane sugar (CCS)-14.70 %, Sucrose-18.57 %
- Moderately resistant to red rot disease, susceptible to root borer and wilt complexes
- **Average Yield** : 625 q/ha
- **Potential Yield** : 900 q/ha



2001

S.O. 92 (E)
Dated 02.02.2001



1995

Sugarcane : CoH 56

Haryana

Yield
700 q/ha

CCS
13.20%

- Haryana State
- Semi erect leaves, small bud, bud groove absent
- Early maturity, non-Lodging, good ratooner, tolerant to water stress
- Commercial cane sugar (CCS) -13.20 %, Sucrose-17.21 %
- Susceptible to red rot and grassy shoot disease
- **Average Yield** : 700 q/ha
- **Potential Yield** : 800 q/ha

Sugarcane : CoH 99

Haryana

Yield
750 q/ha

CCS
14.0%

- Haryana State
- Medium bud, bud groove absent, waxy green sheath colour, dark green foliage
- Medium maturity, synchronous tillering, prone to lodging due to heavy top, good ratooner, tolerant to water stress and water logging, suitable for normal and late planting
- Commercial cane sugar (CCS)-14.0 %, Sucrose-17.60 %
- Resistant to red rot and grassy shoot disease
- **Average Yield** : 750 q/ha
- **Potential Yield** : 870 q/ha



1995



1992

Sugarcane : CoH 35

Haryana

Yield
695 q/ha

CCS
13.40%

- Haryana State
- Medium bud size, lenciolate auricle, very fast growing, soft cane
- Tall, late maturity, shy tillering, lodging susceptible, low input variety, tolerant to drought
- Commercial cane sugar (CCS)-13.40 %
- Resistant to smut disease, moderately resistant to red rot
- **Average Yield** : 695 q/ha
- **Potential Yield** : 889 q/ha



Agriculture Minister and Vice Chancellor Visit at RRS Karnal



Felicitation of Breeders and Developers of Forage Sorghum variety



Felicitation of Breeders and Developers of Oats varieties



Forage Crop Berseem : HB 2

Haryana

Green
Fodder
785 q/ha

Resistant
to stem rot
disease

- Longer duration
- Better regeneration and gives 1-2 additional cuts
- Resistant to stem rot disease
- State for timely sown irrigated condition
- **Average Yield** : 785 q/ha (green fodder)
101.4 q/ha (dry fodder)

2014

S.O. 1146 (E)
Dated 24.04.2014

Forage Crop Berseem : HB 1

Haryana

Green
Fodder
700 q/ha

Resistant
to stem
rot

- Better in nutritional quality
- Multiple resistant against stem rot and root rot diseases
- State for timely sown irrigated condition
- **Average Yield** : 700 q/ha (green fodder)
84.6 q/ha (dry fodder)



2006

S.O. 599 (E)
Dated 25.04.2006



1975

S.O. 440 (E)
Dated 21.08.1975

Forage Crop

Berseem : MESCOVI

National

Green
Fodder
650 q/ha

Introduction
from Egypt

- Released for assured irrigation and high soil fertility areas especially Punjab, Haryana, Himachal Pradesh and Uttar Pradesh
- An introduction from Egypt
- Leaf small, oblong, rounded at tip, bright green, slightly hairy
- Seed oval, yellow in colour and small
- **Average Yield :** 650 q/ha (green fodder)
82.0 q/ha (dry fodder)
3.20 q/ha (seed)

Forage Crop

Oats : HFO 607

North-West
Zone

Green
fodder
615.7 q/ha

Seed
yield
27.6 q/ha

- Notified for North West Zone of India (Haryana, Punjab, Rajasthan, Terai region of Uttarakhand and Western UP)
- Suitable for timely sown, normal fertility and irrigated conditions for single cut system
- Crude protein – 9.3%
- Moderately resistant to *Helminthosporium* leaf blight disease.
- **Average Yield :** 615.7 q/ha (green fodder)
131.2q/ha (dry fodder)
27.6 q/ha (seed yield)



2021

S.O. 500 (E)
Dated 29.01.2021



2021

S.O. 500 (E)
Dated 29.01.2021

Forage Crop

Oats : HFO 427

South
Zone

Green
fodder
320.2 q/ha

Crude
Protein
8.4%

- Notified for South zone of India (Telangana, Andhra Pradesh, Tamil Nadu, Karnataka and Kerala).
- Suitable for timely sown, normal fertility and irrigated conditions for single cut system
- Crude protein- 8.4%
- **Average Yield:** 320.2 q/ha (green fodder)
282.2 q/ha (dry fodder)
10.4 q/ha (seed yield)

Forage Crop

Oats : OS 424

Hill
Zone

Green
fodder
296.5 q/ha

Crude
Protein
9 %

- Notified for Hill Zone of India (Himachal Pradesh, J&K and Uttarakhand)
- Suitable for timely sown, single cut system under normal fertility and irrigated conditions
- Crude protein – 9.0%
- **Average Yield :** 296.5 q/ha (green fodder)
65.1 q/ha (dry fodder)
13.5 q/ha (seed yield)



2020

S.O. 3482 (E)
Dated 07.10.2020



2020

S.O. 3482 (E)
Dated 07.10.2020

Forage Crop

Oats : OS 405

Central
Zone

Green
fodder
513 q/ha

Moderately
resistant
leaf blight

- Notified for Central Zone of India (Maharashtra, Gujarat, Chhatisgarh, Madhya Pradesh and Central Uttar Pradesh)
- Suitable for timely sown, single cut system under normal fertility and irrigated conditions
- Crude protein – 8.3%
- Resistant to Moderately resistant to *Helminthosporium* leaf blight
- **Average Yield :** 513.0 q/ha (green fodder)
114.7 q/ha (dry fodder)
16.7 q/ha (seed yield)

Forage Crop

Oats : OS 403

National

Green
fodder
533.8 q/ha

Moderately
resistant
leaf blight

- Release for timely sown, irrigated and single cut system
- Better nutritional qualities
- Moderately resistant to Leaf Blight disease
- Bold seeded
- National suitable for timely sown irrigated conditions
- **Average Yield :** 533.8 q/ha (dry fodder)



2018

S.O. 1379 (E)
Dated 27.03.2018



Forage Crop Oats : OS 377

Central
Zone of
India

Green
fodder
537 q/ha

Moderately
resistant
to BLB

2015

S.O. 268 (E)
Dated 28.01.2015

- Bold seeded, single cut
- Better nutritional qualities
- Moderately resistant to leaf blight disease
- National (CZ) for timely sown, irrigated conditions
- **Average Yield :** 537 q/ha (green fodder)
121 q/ha (dry fodder)

Forage Crop Oats : OS 346

Central
Zone of
India

Green
fodder
535 q/ha

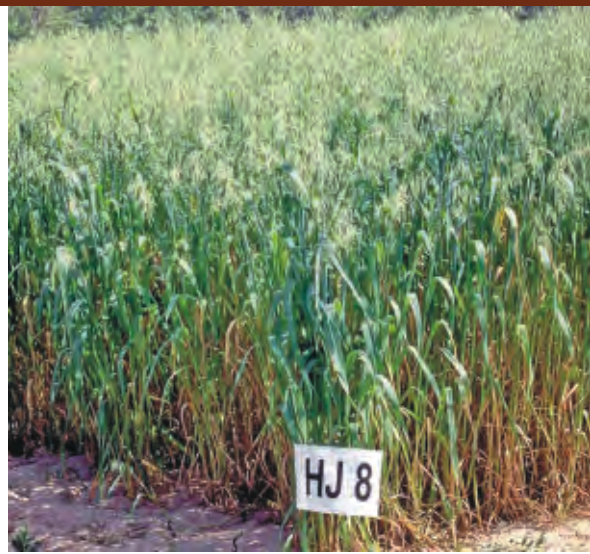
Resistant
to leaf
blight

- Bold seeded, single cut
- High productivity/per day
- Better nutritional quality
- Highly resistant to leaf blight
- National (CZ) for timely sown irrigated conditions
- **Average Yield :** 535 q/ha (green fodder)



2010

S.O. 733 (E)
Dated 01.04.2010



1998

S.O. 401 (E)
Dated 15.05.1998

Forage Crop Oats : HJ 8

Haryana

Green
fodder
590 q/ha

Tolerant
to
disease

- Fast growth, two cuts
- Broad and light green leaves
- Medium bold seeds
- Tolerant to diseases
- State for timely sown irrigation condition
- **Average Yield** : 590 q/ha (green fodder)
124.3 q/ha (dry fodder)

Forage Crop Oats : OS 7

Haryana

Green
fodder
530 q/ha

Tolerant
to disease

- Early vigour, single cut
- Tall, broad leaves with light green colour
- Medium bold seeds
- Tolerant to diseases
- State for timely sown
- **Average Yield** : 530 q/ha (green fodder)
116 q/ha (dry fodder)



1984

S.O. 596 (E)
Dated 13.05.1984



1984

S.O. 596 (E)
Dated 13.08.1984

Forage Crop

Oats : HFO 114

Haryana

Green
fodder
547.3 q/ha

Resistant
to lodging

- Suitable for early sowing with two cuts
- Tall growing with good tillering
- Synchronous flowering
- Bold seeded
- Resistant to lodging, tolerant to diseases
- State for timely sown
- **Average Yield** : 547.3 q/ha (green fodder)
102.4 q/ha (dry fodder)

Forage Crop

Oats : OS 6

National

Green
fodder
500 q/ha

Tolerant
to disease

- Early vigour
- Suitable for early sowing
- Tall, broad leaves with light green colour
- Medium bold seeds
- Erect flag leaf at panicle emergence
- Tolerant to diseases
- National for timely sown
- **Average Yield** : 500 q/ha (green fodder)
105 q/ha (dry fodder)



1982

S.O. 19 (E)
Dated 14.01.1982



2020

S.O. 3482 (E)
Dated 06.10.2020

Forage Crop

Sorghum : CSV 44F

Zone-II
of India

Green
fodder Yield
407 q/ha

Tolerant
to Foliar
Diseases

- Released for Zone II of India (*i.e.*, Maharashtra, Tamil Nadu and Karnataka)
- High green and dry fodder yield
- High total soluble solids (TSS%) *i.e.* 10.96%
- Tall and sweet
- Resistant to lodging
- Low HCN and good quality
- Tolerant to stem borer
- Tolerant to midge and major foliar diseases
- **Average Yield** : 407.0 q/ha (green fodder)

Forage Crop

Sorghum : HJ 541

Haryana

Green
fodder
525-550
q/ha

Resistant
to stem
borer

- Single cut variety for Haryana state
- Resistant to stem borer
- Better in nutritional quality
- Sweet & Juicy
- Stay green upto maturity
- **Average Yield** : 525-550 q/ha (green fodder)
160-180 q/ha (dry fodder)



2014

S.O. 1146 (E)
Dated 24.04.2014



Forage Crop

Sorghum : HJ 513

Haryana

Green
fodder
550 q/ha

Resistant
to foliar
diseases

2007

S.O. 1178 (E)
Dated 20.07.2007

- Very tall, semi-compact long and bold panicles
- Resistant to foliar diseases
- Single cut variety for Haryana state
- Non-sweet & Juicy
- Suitable for early and late sown conditions in kharif season
- Stay green upto maturity
- **Average Yield :** 550 q/ha (green fodder)
180 q/ha (dry fodder)

Forage Crop

Sorghum : HC 308

National

Green
fodder
530 q/ha

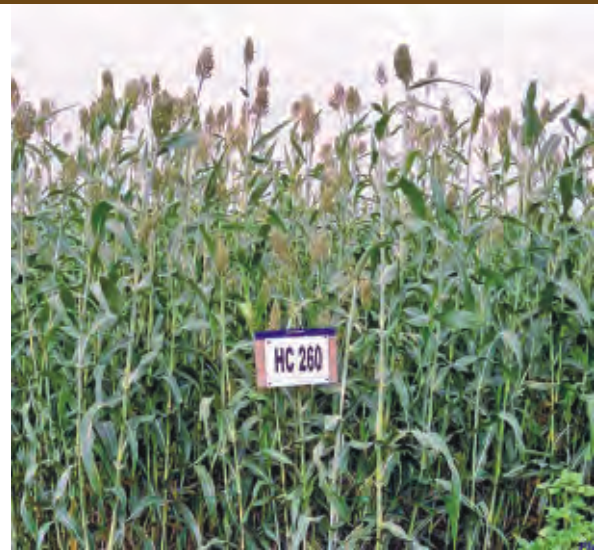
Resistant
to foliar
diseases



- Tall, sweet & juicy, long and broad leaves
- Resistant to foliar diseases
- High seed yield
- Matures in 115 days
- Good protein yield and low HCN
- National for kharif season
- Stay green upto maturity
- **Average Yield :** 530 q/ha (green fodder)
175 q/ha (dry fodder)

1996

S.O. 1 (E)
Dated 01.01.1996



1987

S.O. 834 (E)
Dated 18.09.1987

Forage Crop

Sorghum : HC 260

National

Green
fodder
480 q/ha

Resistant
to foliar
diseases

- Non-sweet & Juicy
- Matures in 100-120 days
- Tall, juicy and suitable for karvi making
- Resistant to foliar diseases
- National for kharif season
- Stay green upto maturity
- **Average Yield :** 480 q/ha (green fodder)
155 q/ha (dry fodder)

Forage Crop

Sorghum : HC 171

National

Green
fodder
450 q/ha

Resistant
to foliar
diseases

- Matures in 110 days, creamy seeds
- Sweet & juicy, tall with broad leaves
- Resistant to foliar diseases
- Mite immune
- National for summer and kharif season
- Stay green upto maturity
- **Average Yield :** 450 q/ha (green fodder)
170 q/ha (dry fodder)



1987

S.O. 834 (E)
Dated 18.09.1987



1982

S.O. 19 (E)
Dated 14.01.1982

Forage Crop

Sorghum : HC 136 (2 cuts)

National

Green
fodder
550 q/ha

Resistant
to foliar
diseases

- Maturity 140 days, two cuts
- Tall, long and broad leaves
- Creamy bold seeds
- Sweet & juicy, good palatability
- Tolerant to foliar diseases
- National for irrigated conditions
- Stay green upto maturity
- **Average Yield :** 550 q/ha (green fodder in two cuts)
175 (dry fodder)

Forage Crop

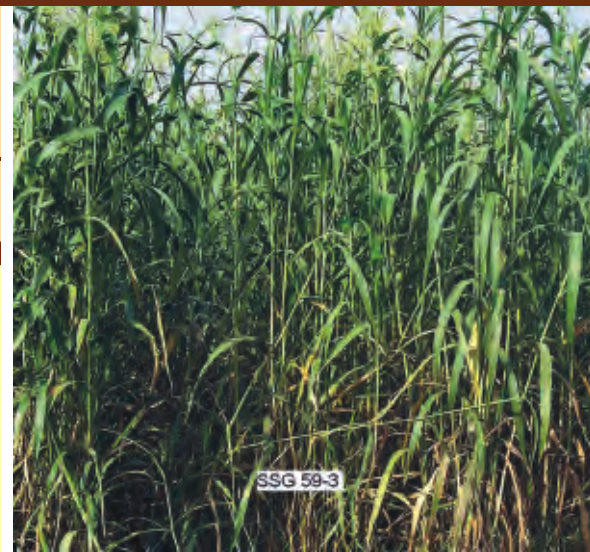
Sorghum : SSG 59-3 (Multi-cut)

National

Green
fodder
750 q/ha

Multiert
variety

- Tall, sweet, profused tillering, quick growth
- Suitable for summer and *kharif* seasons
- Capable of giving 3-4 cuttings
- National for irrigated conditions
- Stay green upto maturity
- **Average Yield :** 750 q/ha (green fodder)
200 q/ha (dry fodder)



1978

S.O. 1004 (E)
Dated 23.03.1978



1975

Forage Crop

Sorghum : JS 73/53

National

Green
fodder
300 q/ha

Sweet

- Matures in 100 days
- Medium tall
- Medium bold creamy grains
- Suitable for single cut
- National
- **Average Yield** : 300 q/ha (green fodder)

Forage Crop

Cowpea : HC 46

Haryana

Grain Yield
10-12 q/ha

Tolerant
against
drought

- Early maturing (70 days)
- Medium bold seeds with very attractive colour, high protein and low tannin
- Tolerant against drought, moderately resistant against yellow mosaic virus
- State for summer and rainy season
- **Average Grain Yield** : 10-12 q/ha



2009

S.O. 733 (E)
Dated 01.04.2010



Forage Crop **Cowpea : CS 88**

Haryana

Green
fodder
350-375
q/ha

Tolerant
against
drought

1995

S.O. 360 (E)
Dated 01.05.1997

- Erect growth and early vigour
- Long and broad leaves
- Good for mixed cropping
- Resistant to yellow mosaic virus, tolerant to aphids and jassids, resistant to drought
- State for summer and rainy season
- **Average Yield :** 375 q/ha (green fodder)
175 q/ha (dry fodder)

Forage Crop **Clusterbean : HG 884**

Haryana

Grain Yield
20-22 q/ha

Tolerant
to bacterial
leaf blight



- Medium in maturity (100-110 days)
- Moderately resistant against Alternaria blights
- Tolerant against bacterial leaf blight & root rot
- National for timely sown
- **Average Grain Yield :** 20-22 q/ha

2010

S.O. 733 (E)
Dated 01.04.2010



Forage Crop

Clusterbean : HG 2-20

Haryana

Grain Yield
21-23 q/ha

Tolerant
to BLB

2010

S.O. 733 (E)
Dated 01.04.2010

- Early maturing (90-100 days)
- Bold seeded
- Resistant to lodging, moderately resistant to major diseases
- Tolerant against Bacterial leaf Blight (BLB), Alternaria Blight (AB) and Root rot
- National & suitable for early and late sowing
- **Average Grain Yield : 21-23 q/ha**

Forage Crop

Clusterbean : HG 870

Haryana

Grain Yield
20-22 q/ha

Tolerant
against
BLB



- Early maturing (85-95 days)
- Profuse branching
- High viscosity of gum
- Tolerant to bacterial blight and root rot
- Moderately resistant against AB
- State for timely seen alternaria blight
- **Average Grain Yield : 20-22 q/ha**

2010

S.O. 733 (E)
Dated 01.04.2010



Forage Crop

Clusterbean : HG 563

Haryana

Grain Yield
18-20 q/ha

Tolerant
against
BLB

2004

S.O. 642 (E)
Dated 31.05.2004

- Maturity 85-100 days
- High viscosity of gum
- Tolerant against BLB
- State & Suitable for early and late sowing
- **Average Grain Yield : 18-20 q/ha**

Forage Crop

Clusterbean : HG 365

Haryana

Grain Yield
17-19 q/ha

Tolerant
to
BLB



- Early maturing (85-100 days)
- Having serrated leaves
- Suitable for intensive cropping
- Tolerant against BLB
- Suitable for early and late sowing
- State suitable for early & late sown
- **Average Grain Yield : 17-19 q/ha**

1998

S.O. 401 (E)
Dated 15.05.1998



Forage Crop

Clusterbean : HG 258

Haryana

Grain Yield
6-6 q/ha

Moderately
resistant
to BLB

1986

S.O. 10 (E)
Dated 01.01.1988

- Maturity (110-125 days)
- Moderately resistant against alternaria leaf spot and bacterial leaf blight
- National for timely sown
- **Average Grain Yield : 5-6 q/ha**

Forage Crop

Clusterbean : HG 182

National

Grain Yield
13-18 q/ha

Moderately
resistant
to alternaria
leaf spot



- Maturity (110-125 days)
- Moderately resistant against alternaria leaf spot and bacterial leaf blight
- National suitable for timely sown
- **Average Grain Yield : 15-18 q/ha**

1981

S.O. 596 (E)
Dated 13.08.1984



Forage Crop

Clusterbean (Guar) : HFG 156

Haryana

Green
fodder
350 q/ha

Tolerant

- Tall growing
- Branched type
- Tolerant to diseases
- National for timely sowing
- **Average Yield** : 350 q/ha (green fodder)

1987

S.O. 10 (E)
Dated 01.01.1988

Forage Crop

Clusterbean (Guar) : HG 75

National

Grain Yield
18-20 q/ha

Tolerant
to
BLB

- Branched
- High yielding
- Bushy type
- National for timely sowing
- **Average Grain Yield** : 18-20 q/ha



1981

S.O. 19 (E)
Dated 14.01.1982



1981

S.O. 19 (E)
Dated 14.01.1982

Forage Crop

Clusterbean (Guar) : HFG 119

National

Green
fodder
223 q/ha

Tolerant
against
drought

- Maturity 130-135 days
- Broad, dark green leaves
- Moderately resistant to diseases
- National for timely sowing
- **Average Yield** : 223 q/ha (green fodder)

Forage Crop

Clusterbean (Guar) : FS 277

Haryana

Green
fodder
280 q/ha

Used for
fodder

- Maturity 125-130 days
- Erect
- Unbranched
- National for timely sowing
- **Average Yield** : 280 q/ha (green fodder)



1974

S.O. 786 (E)
02.02.1976



Forage Crop

Senji : HFWS 55

Haryana

Green
fodder
300 q/ha

Resistant
to frost
lodging &
shattering

1997

S.O. 401 (E)
Dated 15.05.1998

- Leafy
- Palatable
- White flowered
- Disease free variety
- State for mid to late sowing
- **Average Yield** : 300 q/ha (green fodder)

Forage Crop

Senji : FOS 1

Haryana

Green
fodder
190 q/ha

Disease
resistance



- Yellow flowered
- Disease free variety
- State for timely sown
- **Average Yield** : 190 q/ha (green fodder)

1976

S.O. 786 (E)
Dated 02.02.1976



Forage Crop **Methi : T 8**

Haryana

Grain Yield
12-15 q/ha

Slightly
tolerant to
powdery
mildew

1997

- Matures in 135 days
- Bold seeded yellow grains
- Leaves with green margins
- Slightly tolerant to powdery mildew
- State for timely sown, restricted irrigation conditions
- **Average Grain Yield : 12-15 q/ha**

Forage Crop **Lucerne : T 9**

National

Green
fodder
800 q/ha

Resistant
to drought

- Vigorous
- Quick growing
- Deep green foliage
- Resistant to drought
- State for perennial cultivation
- **Average Yield : 800 q/ha (green fodder yield)**



1978

S.O. 13 (E)
Dated 19.12.1978



2017

S.O. 1007 (E)
Dated 30.03.2017

Medicinal and Aromatic Crop **Fababean : HFB-1**

National

Yield
20-25 q/ha

Resistant to
diseases and
insect pests

- Tolerant to water stress has been observed, tolerant to salinity
- Maturity: 145-150 days
- Resistant to diseases and insect- pests.
- Irrigated for both high and low fertility conditions of country.
- **Average Yield : 20-25 q/ha**

Medicinal and Aromatic Crop **Fababean : Vikrant**

National

Yield
25-35 q/ha

Protein
content
20-25%

- Medium height (100 cm)
- Small seeded
- Matures in 140-145 days
- Protein content 20-25%
- National for restricted irrigated conditions under medium soils
- **Average Yield : 25-35 q/ha**



1999

S.O. 425 (E)
Dated 08.06.1999



2003

Medicinal and Aromatic Crop **Dhaincha : DH 1**

National

Yield
26 q/ha

Green
manuring
45 days

- High nodulation
- High nitrogen fixation
- Succulent and fast decomposition
- Maturity 195 days (seed to seed) and 45 days (green manuring)
- National for *kharif* planting
- **Average Yield :** 26 q/ha (seed)
250-300 q/ha (Green manure)

Medicinal and Aromatic Crop **Isabgol : HI 5**

Haryana

Yield
10-12 q/ha

Husk
30%

- Compact plant type
- long and dense spikes
- Maturity 140-145 days
- Husk 30%
- State for rabi season
- **Average Yield :** 10-12 q/ha



1989



Medicinal and Aromatic Crop

Mulhatti/Liquorice : HM 1

Haryana

Yield
60-75 q/ha

Glycyrrhizic
Acid
6-7%

- Matures in 2½ – 3 years
- Tall growing
- Dark green leaves
- Glycyrrhizic acid : 6-7%
- Haryana State
- **Average Yield** : 60-75 q/ha (Dry root)

1989

Medicinal and Aromatic Crop

Roshagrass/Palmarosa : RH-49

Haryana

Oil Yield
75-100
ltr/ha

Geraniol
content
>80%

- Perennial crop (3-4 years), two cuts/annum
- Tall growing (more than 2 m)
- Thick stem, broad leaves
- Long and condensed inflorescence
- Oil content 0.4-0.5%
- Geraniol content > 80%
- Haryana State
- **Average Yield** : 75-100 litre/ ha (Essential oil)



1989



Medicinal and Aromatic Crop Periwinkle/Sadabahar : Prabhat Selection 1

Haryana
Maharashtra

Dry Root
15-18 q/ha

Alkaloid
2%
Root

- Dark purple stem
- Shining leaves
- Pink flowers
- Matures in 8-10 months
- Alkaloid 2% in dry roots and 1% in leaves
- Wide adaption
- Haryana and Maharashtra for light to medium soils
- **Average Yield** : 15-18 q/ha (dry root) and 20-25 q/ha (dry leaves)

2003

Medicinal and Aromatic Crop Guayule : HG 8

National

Yield
15-20 q/ha

Rubber
content
6-7%

- Matures in 1½ years
- Highly vigorous
- Broad leaf and thick stem
- Rubber content 6-7%
- National for semi arid conditions
- **Average Yield** : 15-20 q/ha



1991



HK 127

2019

S.O. 4272 (E)
Dated 26.11.2019

Vegetable : HK 127

Haryana

Average
Yield
120-125
q/ha

Best suited
for stuffed
culinary
preparation

- Fruits oblong, green best suited for stuffed culinary preparation.
- Seed rate 4-5 kg/ha
- High TSS, ascorbic acid content and better storage.
- Incidence of Fruit fly, downy mildew and cercospora leaf spot
- Both for spring-summer and rainy seasons under irrigated conditions of Haryana state.
- **Average Yield** : 120.0-125.0 q/ha
- **Potential Yield** : 140.0 q/ha

Onion : Hisar Onion 4

Haryana

Average
Yield
310-315
q/ha

Red
rose
colour

- Higher yield
- Rose red colour
- Less bolting
- Good storage quality
- Released for cultivation in Haryana state
- **Average Yield** : 310-315 q/ha
- **Potential Yield** : 325 q/ha



2016

S.O.3666 (E)
Dated 6/12/2016



2010

S.O. 1979 (E)
Dated 12/08/2010

Onion : Hisar Onion 3

National

Average
Yield
320-350
q/ha

Bronze
colour
bulb

- Globular shaped bulbs with tight skin and thin neck
- High yield
- Less bolting
- Good storage life
- National
- **Average Yield : 320-350 q/ha**

Onion : Hisar 2

Haryana

Average
Yield
280-320
q/ha

Better
storage
life

- Bronze-red color, flattish globular shaped and more pungent bulbs
- Better shelf life
- Released for cultivation in Haryana state
- **Average Yield : 280-320 q/ha**
- **Potential Yield : 335 q/ha**



1976

S.O. 786 (E)
Dated 02/02/1976



2016

S.O.3666 (E)
Dated 06/12/2016

Bottle Gourd : GH 22

Haryana

Average
Yield
240-260
q/ha

Fruit green
& bottle
shaped

- High yielder
- Medium long, green colour fruits
- Easy to cook
- Released for cultivation in Haryana state
- **Average Yield** : 240-260 q/ha
- **Potential Yield** : 300 q/ha

Bottle Gourd : HBGH 35 (Hybrid)

Haryana

Average
Yield
280-320
q/ha

Fruits
cylindrical
in shape

- Medium long, soft-skinned light green fruits
- High yielding
- Better consumer preference
- Easy to cook
- Released for cultivation in Haryana state
- **Average Yield** : 280-320 q/ha
- **Potential Yield** : 350 q/ha



2016

S.O. 3666 (E)
Dated 06/12/2016



Brinjal : HLB 12 (Hisar Bahar)

Haryana

Average
Yield
420-440
q/ha

Tolerant to
Shoot & fruit
borer

- Tolerant to shoot & fruit borer and high temperature
- Released for cultivation in Haryana state
- **Average Yield** : 420-440 q/ha
- **Potential Yield** : 469 q/ha

2014

Brinjal : HLB 25 (Hisar Jamuni)

Haryana

Average
Yield
240-260
q/ha

Tolerant
to
high temp.

- Suitable for summer season
- Medium long, slender and bright purple fruits
- Tolerance to high temperature
- Released for cultivation in Haryana state
- **Average Yield** : 240-260 q/ha
- **Potential Yield** : 300 q/ha



2012

S.O. 2363 (E)
Dated 04/10/2012



HISAR PRAGATI

1991

Brinjal : Hisar Pragati

Haryana

Average
Yield
325-350
q/ha

Fruit dark
purple
coloured

- Suitable for summer season
- Fruits long bright dark purple colored
- Released for cultivation in Haryana state
- **Average Yield** : 325-350 q/ha
- **Average Yield** : 400 q/ha

Brinjal : Hisar Shyamal

National

Average
Yield
300-325
q/ha

Early round
& dark purple
fruits

- Early and high yielding
- Round, dark purple bright fruits
- Tolerant to little leaf and bacterial wilt diseases
- Released for cultivation at National level
- **Average Yield** : 300-325 q/ha



HISAR SHYAMAL

1991

S.O. 617 (E)
Dated 17/08/1993



Brinjal : BR 112

Haryana

Average
Yield
240-260
q/ha

Early &
round fruited
variety

1976

S.O. 617 (E)
Dated 17/08/1993

- Early
- Bushy plants
- Round, bright purple colour and fleshy fruits
- Released for cultivation in Haryana state
- **Average Yield** : 240-260 q/ha

Cauliflower : Hisar 1

Haryana

Average
Yield
220-230
q/ha

Suitable
for Salt
prone area

- Tall plant, medium to large size head, white colour
- Compact head
- Tolerant to salt
- Released for cultivation in Haryana state
- **Average Yield** : 220-230 q/ha
- **Potential Yield** : 275 q/ha



1976

S.O. 786 (E)
Dated 02.02.1976



Garlic : HG 17

Haryana

Average
Yield
120-130
q/ha

Good storage
& tolerant to
purple blotch

2012

S.O. 2363 (E)
Dated 04/10/2012

- High yielding
- Good storage life
- Bulb weight is better than other varieties
- Least incidence of purple blotch disease
- Released for cultivation in Haryana state
- **Average Yield** : 120-130 q/ha
- **Potential Yield** : 132 q/ha

Okra : Hisar Naveen

Haryana

Average
Yield
120-140
q/ha

Tolerant
to
YVMV

- Suitable for spring summer and rainy seasons
- Fruit tender green and smooth
- Tolerant to Yellow Vein Mosaic Virus (YVMV) disease
- National (Haryana, Rajasthan, Delhi, Gujarat, Tamilnadu, Kerala and Karnataka)
- **Average Yield** : 120-140 q/ha
- **Potential Yield** : 185 q/ha



2006



Okra : HBH 142

National

Average
Yield
120-140
q/ha

Tolerant
to YVMV

2006

S.O. 597 (E)
Dated 25/04/2006

- Suitable for spring summer and rainy seasons
- High yielding hybrid
- Fruiting starts on third/fourth node
- Tolerant to YVMV disease
- National (Punjab, Uttar Pradesh, Uttarakhand, Karnataka and Haryana)
- **Average Yield** : 120-140 q/ha
- **Potential Yield** : 180.6 q/ha

Okra : Hisar Unnat

National

Average
Yield
110-130
q/ha

Resistance
to
YVMV

- Suitable for spring summer and rainy seasons
- Fruiting starts on third/fourth node
- Resistance to YVMV disease
- National (Haryana, Rajasthan, Delhi and Gujarat)
- **Average Yield** : 110-130 q/ha
- **Potential Yield** : 140 q/ha



1997

S.O. 98 (E)
Dated 08/02/1997



1996

S.O. 115 (E)
Dated 10/02/1996

Okra : Varsha Uphar

National

Average
Yield
100-120
q/ha

Resistance
to
YVMV

- Suitable for rainy season
- Medium tall plant
- Fruiting starts on third/fourth node
- Resistance to (YVMV) disease
- National (Haryana, Rajasthan, Delhi and Gujarat)
- **Average Yield** : 100-120 q/ha
- **Potential Yield** : 130 q/ha

Fenugreek : Hisar Mukta

National

Average
Yield
18-20
q/ha

Resistance
to downy
mildew

- Early, light green foliage
- Bold brown green seed
- Resistant to downy mildew
- National (Haryana, Rajasthan and Gujarat)
- **Average Yield** : 18-20 q/ha
- **Potential Yield** : 23 q/ha



2006

S.O. 597 (E)
Dated 25/04/2006



Fenugreek : Hisar Sonali

National

Average
Yield
16-18
q/ha

Suitable for
leaf & Seed
purpose

1996

S.O. 115 (E)
Dated 10/02/1996

- Quick growing
- Dual purpose
- High yielding
- National (Haryana, Rajasthan and Gujarat)
- **Average Yield** : 16-18 q/ha
- **Potential Yield** : 20 q/ha

Coriander : Hisar Sugandh

National

Average
Yield
16-18
q/ha

High
oil
content

- Suitable for mid-season planting
- High yielding
- High oil content
- National (Haryana, Rajasthan and Bihar)
- **Average Yield** : 16-18 q/ha
- **Potential Yield** : 20 q/ha



2006

S.O. 597 (E)
Dated 25/04/2006



1993

Coriander : Hisar Anand

National

Average
Yield
16-18
q/ha

Bold seeded
dual purpose

- Mid-late variety
- Dual purpose
- Bold seeded
- High yielding
- Released for cultivation at National level
- **Average Yield** : 16-18 q/ha
- **Potential Yield** : 20 q/ha

Indian Melon : Hisar Tinda (HT 10)

Haryana

Average
Yield
80-90
q/ha

Early &
high
yielding

- Early and high yielding
- Round, medium sized tender fruits
- Tolerant to downy mildew and root rot
- Released for cultivation in Haryana state
- **Average Yield** : 80-90 q/ha
- **Potential Yield** : 91 q/ha



2006

S.O. 597 (E)
Dated 25/04/2006



Indian Bean : Hisar Kirti

Haryana

Average
Yield
200-220
q/ha

Early &
dark green
pods

1995

- Early variety
- Flat, dark green pods with better shelf life
- Released for cultivation in Haryana state
- **Average Yield : 200-220 q/ha**

Tomato : Hisar Lalit

National

Average
Yield
250-300
q/ha

Resistant
to root knot
nematodes

- Determinate plant habit
- Fruit maturity 65-70 days after planting
- Average fruit weight 50g
- Resistant to root knot nematodes
- Released for cultivation at National level
- **Average Yield : 250-300 q/ha**



1993

S.O. 617 (E)
Dated 17/08/1993



1990

S.O. 1004 (E)
Dated 08/04/1978

Tomato : Hisar Arun

National

Average
Yield
275-300
q/ha

Red colour
medium size
fruits

- Determinate plant habit
- Heavy bearer
- Early and high yielding
- Released for cultivation at National level
- **Average Yield : 275-300 q/ha**

Tomato : HS 101

National

Average
Yield
240-260
q/ha

Tolerant
to Leaf curl
virus

- Suitable for winter season, determinate plant habit, sturdy, multi-branched
- Fruit round, small to medium in size, red on ripening
- Tolerant to tomato leaf curl virus
- National (Haryana, Uttar Pradesh, Karnataka, Gujarat and Tamil Nadu)
- **Average Yield : 240-260 q/ha**
- **Average Yield : 300 q/ha**



1978

S.O. 1004 (E)
Dated 23.3.1978



Tomato : HS 102

Natioanl

Average
Yield
240-260
q/ha

Sets fruits
at
high temp.

1976

S.O. 786 (E)
Dated 02.02.1976

- Suitable for winter season, determinate plant habit, sturdy, multi-branched
- Fruit round, small to medium in size, red colour
- Sets fruits at high temperature
- National (winter season for northern plains under irrigated conditions)
- **Average Yield** : 240-260 q/ha
- **Potential Yield** : 300 q/ha

Carrot : Hisar Gairic

Haryana

Average
Yield
290-310
q/ha

Early &
Self core

- Early, high yielder, tender roots, red colour
- Coreless and rich in carotene (96.2mg/100g of fresh weight)
- Released for cultivation in Haryana state
- **Average Yield** : 290-310 q/ha



1993



Long Melon : Karnal Selection

National

Average
Yield
90-100
q/ha

Fruits
crispy &
Light green

- A prolific bearer
- Fruits tender light green, long thin, flesh crisp with good flavor
- Released for cultivation at National level
- **Average Yield** : 90-100 q/ha

1981

Radish : Hisar Sweti

Haryana

Average
Yield
390-410
q/ha

Roots mild
in pungency
& white
shoulder

- Root white with white shoulder
- High root: shoot ratio (1.7: 1)
- Root remain edible /non-pithy for longer period
- Root long, cylindrical with obtuse tail, mild pungency
- Crispy flesh texture
- Released for cultivation in Haryana state
- **Average Yield** : 390-410 q/ha



2006



Radish : Hisar Selection 1

Haryana

Average
Yield
380-420
q/ha

Long
slender &
white roots

- Released for cultivation in Haryana state
- **Average Yield** : 380-420 q/ha
- **Potential Yield** : 423 q/ha

2004

Vegetable Peas : Hisar Harit

National

Average
Yield
80-100
q/ha

Long
green pods

- Medium duration
- High yielded
- Long green well filled pods
- Released for cultivation at National level
- **Average Yield** : 80-100 q/ha



1993



Marigold : Hisar Jaffri-2

Haryana

Yield
175-200
q/ha

Flower
diameter
4-5 cm

- Suitable for landscape and flower production
- Dwarf and compact plant
- Orange flower
- Flowering starts in 60-64 days with 60-70 days flowering duration
- Flower diameter 4-5 cm
- State
- **Average Yield** : 175-200 q/ha, 70-80 flowers/plant

2008

13216-26
Dated 10-12-2008

Marigold : Hisar Beauty

Haryana

Yield
40-50
F/plant

Flower
diameter
5-6 cm

- Suitable for landscaping
- Dwarf and compact plant
- Flower dark red, petals with yellow margin
- Flowering starts in 40-45 days with 45-55 days flowering duration
- Flower diameter 5-6 cm
- State
- **Average Yield** : 40-50 flowers/plant



2008

13216-26
Dated 10-12-2008



1995

Guava : Hisar Safeda

Widely
Adapted
N-India

Yield
114
kg/plant

High TSS

- Widely adapted in North India
- Tall and vigorous trees
- Round fruits with smooth shining and yellowish white skin, flesh white and firm
- Seeds are soft and less in number
- High TSS (12.5-13.0 Brix)
- **Average Yield** : 31.25 t/ha

Guava : Hisar Surkha

Haryana

Yield
94
kg/plant

High
TSS

- Widely adapted in whole of Haryana
- Trees spreading and medium in size
- Fruit round in shape, skin light yellow in colour, flesh pink
- High TSS (13.0-13.5 Brix)
- **Average Yield** : 25.0 t/ha



1995



Felicitation of Breeders and Developers of different crop varieties



Visit of Vice-Chancellor to the Vegetable area

Varieties/hybrids released by CCS HAU, Hisar





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