

Breeder and Nucleus Seed Production Programme of Barley (*Rabi, 2017-18*)

The indent and production of breeder and nucleus seed of barley varieties during Rabi 2018-19 has been described as below.

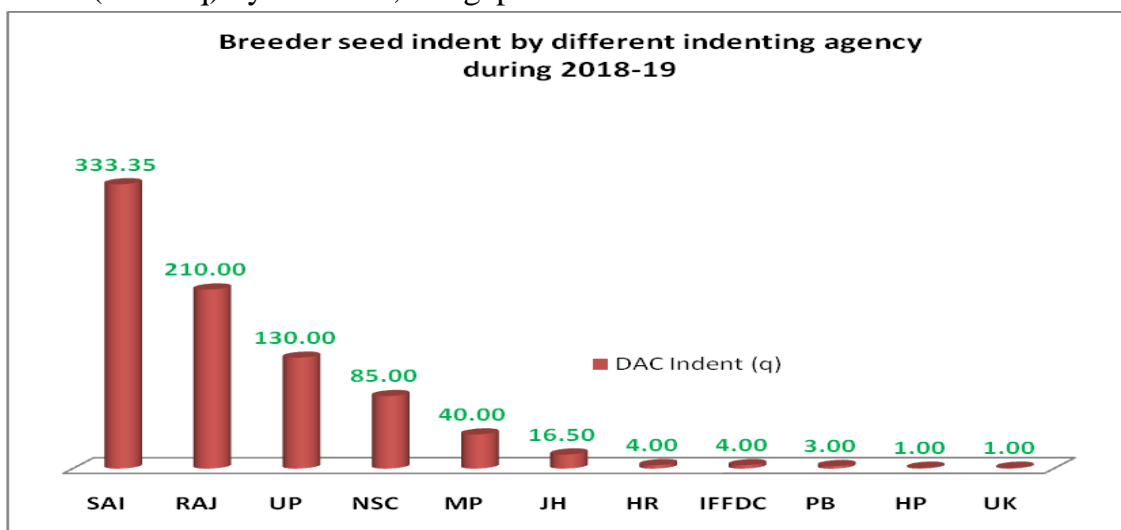
Breeder Seed Indent

A consolidated quantity of 827.85q breeder seed indent of 29 varieties was received from Deputy Commissioner (Seeds), DAC, Ministry of Agriculture & Farmers Welfare, Govt. of India. The indent included the requirement of eight states (Punjab, Haryana, Himachal Pradesh, Jharkhand, Madhya Pradesh, Rajasthan, Uttar Pradesh and Uttarakhand) and two public sector agencies (IFFDC, National Seeds Corporation) and one private agency (Seed Association of India) for the season Rabi 2019-20. The highest indent was placed by SAI (333.35q) followed by Rajasthan (210.00q), Uttar Pradesh (130.00q) and National Seed Corporation (85.00q). The least demand of breeder seed was made from HP (1.00q) and Uttarakhand (1.00q) both followed by Punjab (3.00q). A total 826.95q breeder seed indent of 28 varieties was allocated among 10 BSP centres except Jyoti due to unavailability of nucleus seed of this very old variety.

Among 29 varieties maximum breeder seed indent was received for the variety RD 2786 (142.00q) followed by RD2794 (97.00), PL426 (83.25q), RD2035 (81.40q) and BH393 (71.20q) Among all 29 varieties, 474.85q (57.45% indent of the total indent was reported for ten varieties' namely RD2786, RD2794, PL426, RD2035 and BH 393.

A total of 1421.05q breeder seed of 28 varieties was produced by 10 BSP centres during 2018-19 which is significantly surplus (+594.10q) over the total allocated quantity (826.95) of breeder seed.

Among 10 breeder seed production centres maximum seed production was reported from SKNV, Durgapura (676.60q) followed by CCS HAU Hisar (276.10q), PAU, Ludhiana (135.00q) and IIWBR, Karnal (109.70q) and while the minimum (1.00q) was reported from IARI, RS Karnal. Sufficient breeder seed was produced for all the varieties to fulfill the DAC requirement except RD 2849 (-23.50q) by SKNAU, Durgapura centre.



Top ten indented varieties of barley and their production (q) during 2018-19

S.No.	Variety	Year of release	DAC Indent (q)	Production (q)
1	RD 2786	2013	142.00	230
2	RD 2794	2016	97.00	175
3	PL 426	1996	83.25	110
4	RD 2035	1994	81.40	214
5	BH 393	2002	71.20	138.4
6	HUB 113 (Mahamana 113)	2014	60.00	60
7	DWRUB 52	2007	50.90	56.5
8	RD 2052	1991	36.40	50
9	DWRB 137	2018	30.00	52.2
10	RD 2849	2016	30.00	6.5
		Total	682.15	1092.60
		Per cent share in DAC Indent	82.5 %	

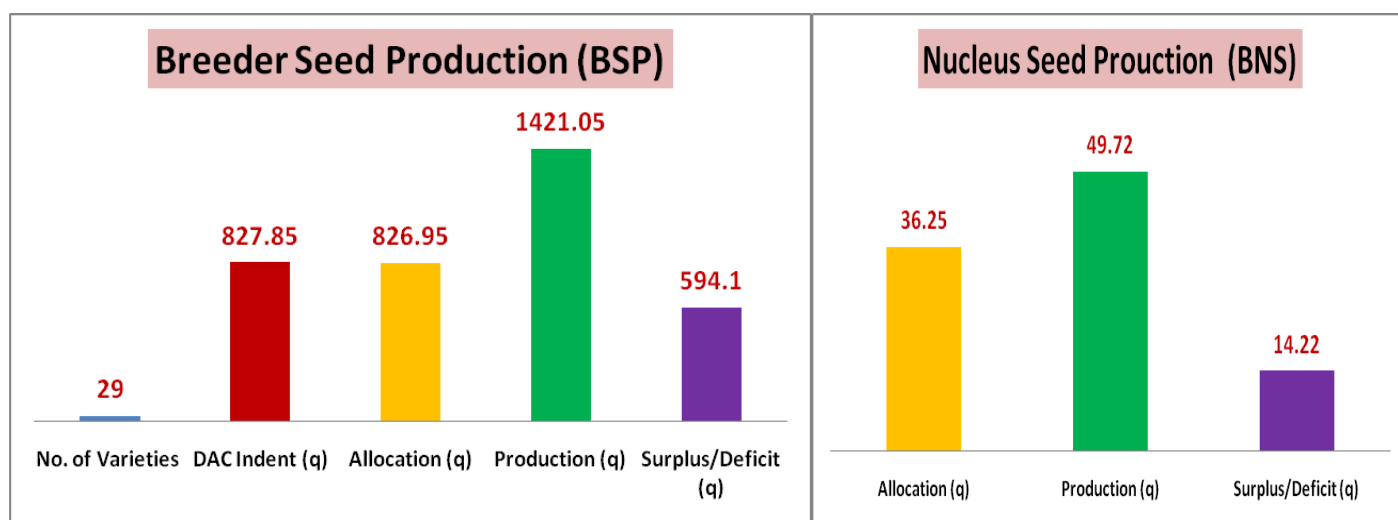


Fig 1. Breeder and Nucleus seed production of 29 barley varieties during 2018-19

Table: Centre wise breeder seed production of Barley during 2018-19

S.No.	BSP Centre	DAC Indent	Allocation	Production	Surplus/Deficit ±
1	SKNAU, Durgapura	387.50	387.50	676.60	+304.10
2	CCS HAU Hisar	132.20	132.20	276.10	+143.90
3	PAU Ludhiana	95.40	95.35	135.00	+39.65
4	IIWBR Karnal	81.90	81.90	109.70	+27.80
5	BHU Varanasi	60.00	60.00	60.00	0.00
6	CSAUAT Kanpur	28.90	28.00	65.45	+37.45
7	JNKVV Jabalpur	20.00	20.00	50.88	+30.88
8	NDUA&T Faizabad	20.00	20.00	42.82	+22.82
9	GBPUAT Pantnagar	1.00	1.00	3.50	+2.50
10	IARI Karnal	1.00	1.00	1.00	0.00

Variety wise breeder and nucleus seed production of barley varieties 2018-19

(qtls)

S.No.	Variety	Year of release	DAC Indent	Centre	Breeder seed			Nucleus seed		
					Allocation	Production	Surplus/deficit	allocation	Production	Surplus/deficit
1	DWRB 137	2018	30.00	IWBR Karnal	30.00	52.20	22.20	1.00	5.70	4.70
2	K 1055	2018	10.00	CSAUAT Kanpur	10.00	24.30	14.30	0.50	2.00	1.50
3	RD 2794	2016	97.00	SKNAU, Durgapura	97.00	175.00	78.00	4.00	5.50	1.50
4	RD 2849	2016	30.00	SKNAU, Durgapura	30.00	6.50	-23.50	0.50	0.00	-0.50
5	BH 959	2015	25.00	CCS HAU Hisar	25.00	36.80	11.80	1.00	1.40	0.40
6	BH 946	2014	25.00	CCS HAU Hisar	25.00	73.65	48.65	1.00	1.50	0.50
7	BHS 400 (Pusa Sheetal)	2014	0.50	IARI Karnal	0.50	0.50	0.00	0.50	0.00	-0.50
8	DWRB 92	2014	0.10	IWBR Karnal	0.10	0.10	0.00	0.25	0.25	0.25
9	HUB 113 (Mahamana 113)	2014	60.00	BHU Varanasi	60.00	60.00	0.00	2.50	2.60	0.10
10	NB 1445	2014	20.00	NDUA&T Faizabad	20.00	42.82	22.82	1.00	0.00	-1.00
11	RD 2786	2013	142.00	SKNAU, Durgapura	142.00	230.00	88.00	5.50	7.00	1.50
12	DWRB 64	2012	0.90	IWBR Karnal	0.90	0.90	0.00	0.50	0.50	0.50
13	PL 807	2012	5.00	PAU Ludhiana	5.00	5.00	0.00	0.50	0.75	0.25
14	UPB 1008	2011	1.00	GBPUAT Pantnagar	1.00	3.50	2.50	0.50	0.50	0.00
15	BH 380 (Pusa Losar)	2010	0.50	IARI Karnal	0.50	0.50	0.00	0.50	0.80	0.30
16	BH 902	2010	9.50	CCS HAU Hisar	9.50	25.75	16.25	0.50	0.60	0.10
17	Jawahar Barley 1 (JB 110)	2010	15.00	JNKVV Jabalpur	15.00	28.46	13.46	0.50	3.30	2.80
18	DWRUB 52	2007	50.90	IWBR Karnal	50.90	56.50	5.60	2.00	1.90	-0.10
19	RD 2660	2006	0.70	SKNAU, Durgapura	0.70	1.10	0.40	0.50	0.70	0.20
20	JB 58	2005	5.00	JNKVV Jabalpur	5.00	22.42	17.42	0.50	1.80	1.30
21	BH 393	2002	71.20	CCS HAU Hisar	71.20	138.40	67.20	3.00	3.20	0.20

22	K 508 (Pragati)	1998	9.72	CSAUAT Kanpur	9.72	27.58	17.86	0.50	0.62	0.12
23	K 560 (Haritma)	1998	8.28	CSAUAT Kanpur	8.28	13.57	5.29	0.50	0.50	0.00
24	PL 426	1996	83.25	PAU Ludhiana	83.25	110.00	26.75	3.00	3.00	0.00
25	RD 2035	1994	81.40	SKNAU, Durgapura	81.40	214.00	132.60	3.00	3.50	0.50
26	RD 2052	1991	36.40	SKNAU, Durgapura	36.40	50.00	13.60	1.50	0.50	-1.00
27	PL 172	1987	7.10	PAU Ludhiana	7.10	20.00	12.90	0.50	1.00	0.50
28	BH 75	1985	1.50	CCS HAU Hisar	1.50	1.50	0.00	0.50	0.60	0.10
29	Jyoti	1974	0.90	CSAUAT Kanpur	0.00	0.00	0.00	0	0	0
	Total		827.85		826.95	1421.05	594.10	36.25	49.72	14.22