BARLEY IMPROVEMENT (AICW&BIP)

TENTATIVE TECHNICAL PROGRAMME

Coordinated Yield Trials (Plant Breeding)

Rabi 2019-20

Entries, Locations and Guidelines for Centres

ICAR-Indian Institute of Wheat & Barley Research, Karnal-132001 (Haryana)

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IMPORTANT POINTS FOR BREEDERS, ZONAL COORDINATORS AND TRIAL CONDUCTING CENTRES

1.	Last date for seed supply to trial coordinator	Rainfed (15 September) Irrigated (20 September)
2.	Last date for trial supply	At least 10 days before the due sowing date
3.	Last date for information of trial conduct by centre to ICAR-IIWBR	
4.	Last date for supply of filled data books to ICAR-IIWBR, Karnal	30 th May (Plains) 15 th June (Hills)

- 5. The zonal coordinator shall supply the seed for the disease nursery from the same seed lot, received for yield trial to Dr. AS Kharub, Principal Scientist & P.I. (Barley Network), IIWBR, PB 158, Karnal-132001. (Action: Dr. AS Kharub & Dr. Lakshmi Kant)
- 6. Also each centre must supply the seed of new station trial entries for IBDSN to Dr. AS Kharub, Principal Scientist & P.I. Barley Network, IIWBR, PB 158, Karnal-132001, failing which no entry will be accepted for IVT next year.
- 7. Breeders must supply the **insect free**, **untreated seed of new entries along with the 1000 g. w. data** to the concerned coordinator for timely trial constitution and despatch to the testing centres.
- 8. The ancillary data on disease/ pests incidence, agronomic and grain characters must be reported in the trial by all centres.
- 9. Grain yield should be reported in the fractions of 5 to 10 grams in grams/ plot only on each replication and not in q/ha per plot.
- 10. Observations on disease incidence made by **the monitoring team must be reported** by the trial conducting centres in the data book along with other data.
- 11. Zonal coordinator will have to supply these guidelines to the testing centres for the conduct of trial, being enclosed from IIWBR along with the other trial details.
- 12. The trial conducting centres are requested to use ball pen only for filling the data booklet and at all cuttings/ over writings initials may be put by the concerned scientist.
- 13. Because of introduction of double coding system in AICW&BIP, the trial packets of entries are carrying only entry code and plot number only. The trial may be sown by arranging the plot numbers sequentially, because all replications of one entry are packed in one polythene envelope to avoid the transportation damage. (eg. If there are 25 entries in a trial with 4 replications, then arrange plot number 1-→25 in R1, 26→50 in R2, 51→75 in R3 -→76-100 in R4 and likewise depending on number of replications).

R1	1→	25
R2	26→	50
R3	51→	75
R4	76→	100

LIST OF BARLEY BREEDING CENTERS

Centre	Name & Address	Centre	Name & Address
Almora	Dr. Lakshmi Kant, Principal Sci. Division of Crop Improvement, ICAR-VPKAS, Almora - 263601 (U.K.)	Karnal	Dr. AS Kharub PI, Barley Barley network Unit ICAR-IIWBR, PO Box-158, Agrasain Road Karnal-132001 (HR)
Bajaura	Dr. Naval Kishore Barley Breeder, HAREC (H.P.K.V.), Bajaura – 175125 Distt. Kulu (H.P.)	Ludhiana	Dr. Simarjit Kaur Barley Breeder, Deptt. of Plant Breeding, P.A.U., LUDHIANA - 141004 (Punjab)
Durgapura	Dr. Shyam Singh Rajpoot Barley breeder RARI, Durgapura, Jaipur - 302018 (Rajasthan)	Pantnagar	Dr. J P Jaiswal, Pr. Sci. Department of Genetics & Plant Breeding, G. B. P. University of Agriculture & Technology, Pantnagar- 263145, Uttrakhand
Faizabad	Dr. R. B. Singh, Barley Breeder, Deptt. of Plant Breeding, N.D. University of Agric. and Tech., Kumarganj, Faizabad - 224001 (U.P.)	Shimla	Dr. Madhu Patial Scientist, ICAR-IARI, Regional Station, Tutikandi, Shimla - 171004 (H.P.)
Hisar	Dr. Y K Gulia, Barley Breeder, Deptt. of Plant Breeding, CCS H.A.U., HISAR - 125004 (Haryana)	Varanasi	Dr. Lal Chand Prasad, Senior Barley Breeder, Deptt. of Plant Breeding, Institute of Agricultural Sciences, BHU, Varanasi - 221005 (U.P.)
Kanpur	Dr. P.K Gupta, Barley Breeder, Section of E.B.(R), CSAUA& T, Kanpur - 208002 (U.P.)		

(AICW&BIP) TECHNICAL PROGRAMME (RABI 2018-19) ICAR-INDIAN INSTITUTE OF WHEAT & BARLEY RESEARCH, KARNAL-132001

CROP	BARLEY			
Name of Trial	AVT			
Production Condition	Rainfe	d		
Zone	NH Zo	ne		
No. of Trial Centres	10			
State	NO.	Name of centres		
Himachal	6	Bajaura, Berthein, Kangra, Katrain, Malan, Shimla		
Uttrakhand	3	Almora, Ranichauri, Majhera		
J&K	1	Rajauri		
No. of varieties including checks	22			
Contributing Centres	No.	Name of varieties		
IARI, RS, Shimla	5 BHS478, BHS479, BHS480, BHS481, BHS482			
Pantnagar	3 UPB1083, UPB1084, UPB1085			
Almora	5 VLB165, VLB166*, VLB167*, VLB168, VLB169			
Bajaura	5	HBL864, HBL865, HBL866, HBL867, HBL868		
Checks	4 HBL113, BHS352, VLB118, BHS 400			
Experimental Design	RBD			
Replications		4		
Plot Size	Gross: 3.5 m x 1.38 m (6 Rows) Net: 3.5 x 0.92 m (4 Rows)			
Fertilizer dose	40 Kg N: 30 Kg P: 20 kg K/ha (All as basal)			
Irrigation	NONE			
Date of sowing (Between)	NHZ (15 October-10 November)			
Seed requirement	4.0 Kg/Entry			
Last date of seed supply	15 September			
Seed to be supplied to Trial Coordinator	Dr. Lakshmikant, Pr. Scientist, Crop Improvement, ICAR-VPKAS, Almora (Uttarakhand)			

*Hulless

CROP	BARLEY			
Name of Trial	AVT			
Production Condition	IRRIG	ATED (Malt Barley) Timely Sown		
Zone	NWPZ	7		
No. of Trial Centres	8			
State	NO.	Name of centres		
Haryana Punjab Rajasthan U.P. Uttrakhand	3 2 1 1	Hisar, Karnal, Bawal Bathinda, Ludhiana Durgapura Mathura Pantnagar		
No. of varieties including checks	6			
Contributing Centres	No.	No. Name of varieties		
Karnal	1	1 DWRB182		
Checks	5	5 DWRB160 (I) , DWRB 101, DWRB123, RD2849, BH 902		
Experimental Design		RBD		
Replications		4		
Plot Size		Gross: 5 m x 2.16 m (12 Rows@ 18cm) Net: 4.5 x 1.80 (10 Rows)		
Fertilizer dose		90 Kg N : 40 Kg P: 20Kg K /ha		
Irrigation		2-3 or more if required at certain location		
Date of sowing (Between)	10-25 November			
Seed requirement		6.0 Kg/Entry (At 45 gm thousand grain weight, If thousand grain weight is more, then increase seed quantity accordingly)		
Last date of seed supply	25 September			
Seed to be supplied to Trial Coordinator		Dr. A.S Kharub, Principal Scientist, ICAR-IIWBR, P.B. 158, Agrasain Road, Karnal – 132001 (HARYANA)		

CROP	BAR	LEY		
Name of Trial	AVT			
Production Condition	SAL	SAL / ALK		
Zone	NWF	PZ / NEPZ		
No. of Trial Centers	06			
State	No.	Name of centres		
U.P. Haryana Rajasthan No. of varieties including	2 2 3 16	Dalipnagar, Faizabad Hisar, IIWBR (Hisar) Banasthali, Vallabhnagar		
checks Contributing Centers	No.	Name of varieties		
Hisar	2	BH1032, BH1033		
Kanpur	3	KB1814, KB1815, KB1827		
Varanasi	2	HUB273, HUB274		
Karnal	1	DWRB214		
Durgapura	4	RD3015, RD3016, RD3017, RD3018		
Checks	4	RD2552, NDB1173, RD2794, RD2907		
Experimental Design		RBD		
Replications		4 (Four)		
Plot Size		Gross: 5 x 1.38 m (6 Rows) Net: 4.5 x 0.92m (4 Rows)		
Fertilizer dose		60 Kg N: 30 Kg P:20 Kg K/ha(1/2N + full P&K as basel)		
Irrigation		2-3		
Date of sowing (Between)		NWPZ / NEPZ (10-25 November)		
Seed requirement	-	4. 0 Kg / Entry (At 40 gm thousand grain weight, If thousand grain weight is more, then increase seed quantity accordingly)		
Last date of seed supply		20 September		
Seed to be supplied to Trial Coordinator		Dr. A.S Kharub, Principal Scientist, ICAR-IIWBR, P.B. 158, Agrasain Road, Karnal – 132001 (HARYANA)		

CROP	BARLEY			
Name of Trial	IVT			
Production Condition	Malt B	sarley		
Zone	NWPZ	Z (Timely Sown)		
No. of Trial Centers	9			
State	NO.	Name of centres		
Haryana Punjab Rajasthan U.P. Uttrakhand No. of varieties including checks	3 2 2 1 1 23	Bawal, Hisar, Karnal Ludhiana, Bathinda Durgapura, SG Nagar Mathura Pantnagar		
Contributing Centers	No.	Name of varieties		
Hisar	3	BH1026, BH1027, BH1028		
Pantnagar	2	UPB1089, UPB1090		
IIWBR, Karnal	6	DWRB196*, DWRB197*, DWRB209, DWRB210, DWRB211, DWRB212		
Durgapura	4	RD3023, RD3024, RD3025, RD3026		
Ludhiana	3	PL912, PL916,PL919		
Checks	5	BH946, DWRB101, DWRB123, RD2849, DWRB160(I)		
Experimental Design		RBD		
Replications		4		
Plot Size		Gross: 5 m x 1.08 m (6 Rows@ 18cm) Net: 4.5 x 0.72 (4 rows)		
Fertilizer dose		90 Kg. N : 40Kg P: 20Kg K /ha		
Irrigation		2-3 or more if required at certain locations		
Date of sowing (Between)		10-25 November (TS)		
Seed requirement		5.50 Kg / Entry (At 45* gm thousand grain weight, If thousand grain weight is more, then increase seed quantity accordingly)		
Last date of seed supply		20 September		
Seed to be supplied to Trial Coordinator		Dr. A.S Kharub, Principal Scientist, ICAR-IIWBR, P.B. 158, Agrasain Road, Karnal – 132001 (HARYANA)		

CROP	BAR	BARLEY		
Name of Trial	Initia	Initial Varietal Trial		
Production Condition	Irriga	Irrigated Feed barley		
Zone	NWF	PZ/ NEPZ / CZ		
No. of Trial Centers	18			
State	NO.	Name of centers		
Haryana	2	Hisar, Karnal		
Punjab	1	Ludhiana		
Rajasthan	3	Durgapura, Tabiji, Udaipur		
Uttrakhand	1	Pantnagar		
U. P	3	Kanpur, Varanasi, Faizabad		
M. P	3	Gwalior, Morena, Tikamgarh		
Bihar	2	Pusa (CAU), Sabour		
Jharkhand	1	Ranchi		
Gujarat	1	Vijapur		
West Bengal	1			
No. of varieties including checks	28	-		
Contributing Centers	No.			
Kanpur	4	KB1707*, KB1816,, KB1817, KB1822		
Varanasi	2	HUB271, HUN272		
Hisar	3	BH1029, BH1030, BH1031		
Durgapura	5	RD2994*, RD3011, RD3012, RD3013, RD3014		
Pantnagar	3			
Ludhiana	5	PL906*, PL913, PL915,PL917,PL920		
Karnal	1	DWRB215,		
Checks	5	BH 946, RD2552, DWRB137, RD2899		
Experimental Design		RBD		
Replications		3 (Three)		
Plot Size		Gross: 5m x 1.38m (6 rows) Net: 4.5 x 0.92 (4 rows)		
Fertilizer dose		60 Kg. N: 30Kg P: 20Kg K/ha		
Irrigation		2-3		
Date of sowing (Between)		10-25 November		
Seed requirement		7.5 Kg / Entry (At 40 gm thousand grain weight, If thousand grain weight is more, then increase seed quantity accordingly)		
Last date of seed supply		20 September		
Seed to be supplied to Trial Coordinator		Dr. A.S Kharub, Principal Scientist, ICAR-IIWBR, P.B. 158, Agrasain Road, Karnal – 132001 (HARYANA)		

CROP	BAR	ARLEY		
Name of Trial	Initia	Initial Varietal Trial/Advance Varietal Trial		
Production Condition	Irriga	ated Feed barley (Hulless)		
Zone	NWF	PZ/ NEPZ / CZ		
No. of Trial Centers	16			
State	NO.	Name of centers		
Haryana	2	Hisar, Karnal		
Punjab	1	Ludhiana		
Rajasthan	2	Durgapura, Udaipur		
Uttrakhand	1	Pantnagar		
U. P	3	Kanpur, Varanasi, Faizabad		
M. P	3	Gwalior, Morena, Tikamgarh		
Gujarat	1	Vijapur		
Bihar	2	Pusa (CAU), Sabour		
Jharkhand	1	Ranchi		
No. of varieties including checks	13			
Contributing Centers	No.	Name of varieties		
Kanpur	1	KB1843		
Ludhiana	4	PL921, PL922, PL923, PL924		
Karnal	3	DWRB204*, DWRB216, DWRB217		
Pantnagar	1	UPB1086		
Checks	4	Karan16, NDB943, K1149,PL891(I)		
Experimental Design		RBD		
Replications		4 (Four)		
Plot Size		Gross: 5m x 1.38m (6 rows) Net: 4.5 x 0.92 (4 rows)		
Fertilizer dose		60 Kg. N : 30Kg P: 20Kg K /ha		
Irrigation		2-3		
Date of sowing (Between)		10-25 November		
Seed requirement		7.5 Kg / Entry (At 40 gm thousand grain weight, If thousand grain weight is more, then increase seed quantity accordingly)		
Last date of seed supply		20 September		
Seed to be supplied to Trial Coordinator		Dr. A.S Kharub, Principal Scientist, ICAR-IIWBR, P.B. 158, Agrasain Road, Karnal – 132001 (HARYANA)		

CROP	BARLI	BARLEY		
Name of Trial	IVT	IVT		
Production Condition	Rainfe	Rainfed		
Zone	NEPZ			
No. of Trial Centers	7			
State	NO.	Name of centres		
UP	4	Kanpur, Varanasi, Faizabad, Saini		
Bihar	1	Sabour		
Jharkhand	2	Ranchi, Chiyanki		
No. of varieties including checks	14			
Contributing Centers	No.	Name of varieties		
Kanpur	3	KB1815, KB1823, KB11830		
Varanasi	2	HUB269, HUB270		
Durgapura	4	4 RD3019, RD3020, RD3021, RD3022		
Ludhiana	2	2 PL918, PL925		
Karnal	1	DWRB213		
Checks	2	K 603, Lakhan		
Experimental Design		RBD		
Replications		4		
Plot Size		Gross: 5m x 1.38 m (6 Rows) Net: 4.5 x0.92 m (4 Rows)		
Fertilizer dose		40 Kg N: 30 Kg. P: 20Kg K /ha		
Irrigation		None		
Date of sowing		NEPZ (20 October - 10 November)		
Seed requirement		4.0 Kg / Entry (At 40 gm thousand grain weight, If thousand grain weight is more, then increase seed quantity accordingly)		
Last date of seed supply		15 September		
Seed to be supplied to Trial Coordinator		Dr. A.S Kharub, Principal Scientist, ICAR-IIWBR, P.B. 158, Agrasain Road, Karnal – 132001 (HARYANA)		