

2168-SPL-MABB-PZ-IR-LS-TAS, 2021-22
LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Maharashtra																	
		Niphad			Pune			Parbhani			Nashik			Dhule			Karad		
		Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HD3438	46.5	6	0	37.6	5	0	52.3	3	0	45.1	5	1	71.7	3	1	55.8	3	0
2	HD3439	62.7	1	1	40.4	2	1	49.5	4	0	46.2	2	1	66.6	4	0	57.5	2	1
3	HD2932(C)	58.5	3	1	37.3	6	0	47.3	6	0	45.4	4	1	75.6	1	1	50.5	5	0
4	HD3090(C)	56.2	4	0	39.1	3	0	61.5	1	1	36.7	6	0	62.7	6	0	54.3	4	0
5	HI1633(C)	59.4	2	1	42.8	1	1	47.9	5	0	47.6	1	1	73.2	2	1	61.8	1	1
6	RAJ4083(C)	48.5	5	0	37.6	4	0	52.9	2	0	45.8	3	1	63.6	5	0	49.5	6	0
G.M.		55.3			39.2			51.9			44.4			68.9			54.9		
S.E.(M)		2.401			1.208			2.127			2.355			3.458			2.201		
C.D. (10%)		6.0			3.0			5.3			5.8			8.6			5.5		
C.V.		8.7			6.2			8.2			10.6			10.0			8.0		
D.O.S(dd.mm.yy)		14.12.21			15.12.21			07.12.21			10.12.21			06.12.21			07.12.21		

No. of Trials : Proposed = 15 Conducted = 15
Trial not reported (03) = Akola (LSM), Mandya (LSM), Pravarnagar (DNR)

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LOCATIONWISE MEAN YIELD (q/ha)

SN	Variety	Karnataka																	
		Dharwad			Ugar Khurd			Arabhavi			Kalloli			Mudhol			Nippani		
		Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G	Yield	Rk	G
1	HD3438	36.5	4	0	45.3	3	1	47.1	4	0	45.6	3	1	41.2	2	1	42.8	6	1
2	HD3439	39.5	3	1	44.7	4	1	53.0	1	1	47.9	1	1	40.2	3	1	45.7	2	1
3	HD2932(C)	31.0	6	0	42.1	6	1	49.6	3	1	44.8	4	1	36.1	6	0	43.4	4	1
4	HD3090(C)	42.0	1	1	45.6	2	1	35.1	6	0	43.9	5	1	36.5	5	0	43.4	5	1
5	HI1633(C)	39.7	2	1	46.6	1	1	52.6	2	1	45.8	2	1	42.1	1	1	47.9	1	1
6	RAJ4083(C)	32.9	5	0	42.6	5	1	36.2	5	0	41.4	6	0	38.9	4	1	43.6	3	1
G.M.		36.9			44.5			45.6			44.9			39.1			44.5		
S.E.(M)		2.146			2.054			2.374			1.974			1.653			2.083		
C.D. (10%)		5.3			5.1			5.9			4.9			4.1			5.2		
C.V.		11.6			9.2			10.4			8.8			8.4			9.4		
D.O.S(dd.mm.yy)		09.12.21			12.12.21			08.12.21			06.12.21			10.12.21			10.12.21		

2168-SPL-MABB-PZ-IR-LS-TAS, 2021-22
STATE AND ZONAL MEANS (q/ha)

SN	Variety	Maharashtra	Karnataka	Zonal
		Yield Rk G	Yield Rk G	Yield Rk G
1	HD3438	51.5 5 0	43.1 3 0	47.3 3 0
2	HD3439	53.8 2 1	45.2 2 1	49.5 2 1
3	HD2932(C)	52.4 3 0	41.2 4 0	46.8 4 0
4	HD3090(C)	51.7 4 0	41.1 5 0	46.4 5 0
5	HI1633(C)	55.5 1 1	45.8 1 1	50.6 1 1
6	RAJ4083(C)	49.7 6 0	39.3 6 0	44.5 6 0
G.M.		52.4	42.6	47.5
S.E.(M)		0.973	0.840	0.643
C.D. (10%)		2.3	2.0	1.5

Summary of Disease Data and Agronomic Characteristics

Peninsular Zone

Trial: SPL- MABB-IR-LS-TAS-PZ, 2021-22

SN	Variety	Disease Reactions			Agronomic Characteristics							
		Br	ACI	LB	Hd.R	Hd.M	Mat.R	Mat.M	Ht.R	Ht.M	TGW.R	TGW.M
1	HD3438	40S	18.0	12	50-65	59	92-113	105	65-98	88	30-48	38
2	HD3439	30S	8.0	2	49-66	57	93-112	105	62-106	86	30-51	38
3	HD2932(C)	10S	5.3	24	53-70	57	91-112	104	60-102	85	31-49	37
4	HD3090(C)	60S	23.3	12	54-67	59	96-114	104	65-103	86	31-53	39
5	HI1633(C)	5MS	1.3	24	48-65	54	90-109	104	64-94	80	31-50	40
6	RAJ4083(C)	60S	19.3	12	42-66	54	87-111	102	62-93	80	31-48	39

1. Ancillary data reported from from Niphad, Pune, Akola, Parbhani, Nashik, Dhule, Karad, Dharwad, Ugar-Khurd, Arbhavi, Kalloli, Modhol, Nippani and Mandya Centres.
2. Brown rust data from Arbhavi, Dharwad, Kalloli, Mudhol, Nippani and Ugar-Khurd

Individual Location Disease Data

SN	Variety	Brown rust					
		Arbhavi	Dharwad	Kalloli	Mudhol	Nippani	Ugar-Khurd
1	HD3438	40S	0	40S	20S	10MS	0
2	HD3439	0	10S	5MS	0	5MS	30S
3	HD2932(C)	0	10MS	10MS	5MS	10S	5MR
4	HD3090(C)	40S	20S	60S	10S	0	10S
5	HI1633(C)	0	5MS	0	0	0	5MS
6	RAJ4083(C)	20S	5MS	20S	5MS	10MS	60S

MABB-IR-LS-CZ, 2021-22

Variety	Spp.	COL_COL	GR_HAB	FOL_COL	AUR_COL	AUR_PUB	FLAG_ATT	Days to Heading	Days to Heading	WAX_LS	WAX_FL	WAX_EAR	WAX_PED
HD 3407	<i>T.aes</i>	Absent	Semi-erect	Green	Absent	Medium	Semi erect	106	Late	Strong	Weak	Weak	Strong
HD 3438	<i>T.aes</i>	Absent	Erect	Green	Absent	Medium	Semi erect	102	Late	Strong	Absent	Absent	Medium
HD 3439	<i>T.aes</i>	Absent	Erect	Green	Absent	Medium	Semi erect	105	Late	Strong	Weak	Weak	Weak
HD 2932 (RP)	<i>T.aes</i>	Absent	Erect	Green	Absent	Medium	Semi erect	106	Late	Strong	Medium	Medium	Strong

Variety	FLAG_LEN	FLAG_LEN	FLAG_BRE	FLAG_BRE	HT	HT	EAR_SH	EAR_DEN	EAR_L	EAR_L	AWN_LEN	AWN_LEN	AWN_COL
HD 3407	27.7	Medium	2.1	Broad	103.0	Medium	Tapering	Medium	12.8	Very long	7.1	Short	Light brown
HD 3438	26.3	Medium	1.9	Medium	102.3	Medium	Tapering	Medium	11.4	Long	6.8	Short	White
HD 3439	27.3	Medium	1.9	Medium	106.0	Long	Tapering	Medium	13.5	Very long	6.4	Short	Light brown
HD 2932 (RP)	27.7	Medium	1.9	Medium	107.3	Long	Tapering	Medium	12.2	Very long	6.4	Short	White

Variety	AWN_ATT	Lower_GL Shape	GLU_PUB	EAR_COL	SHL_WID	SHL_SHP	BEAK_L	BEAK_SH	Ped_L	Ped_L	Ped_att.	PHENOL	GR_COL
HD 3407	Medium		Absent	Light brown	Narrow	Sloping	Medium/Long	derately cur	38.3	Medium	Straight	Medium	Amber
HD 3438	Medium		Absent	White	Narrow	Sloping	Medium	derately cur	38.0	Medium	Bent	Medium	Amber
HD 3439	Medium		Absent	Light brown	Narrow/Medium	Sloping/Straight	Medium	derately cur	41.7	Medium	Bent	Medium	Amber
HD 2932 (RP)	Medium		Absent	White	Narrow	Sloping	Long	derately cur	38.7	Medium	Bent	Medium	Amber

Variety	GR_SH	Germ_wid	BRUSH_L	Grain	TGW	ttleness	GR-TEX	Grain_Thre
HD 3407	Oblong	Medium	Long		Medium		Hard	
HD 3438	Oblong	Medium	Long		Small		Semi hard	
HD 3439	Oblong	Medium	Medium		Small		Hard	
HD 2932 (RP)	Ovate	Medium	Long		Small		Semi hard	

Summary of DUS traits recorded in MABB test entries vs-a-vis corresponding checks (recurrent parent) 2021-22

Trial/ Zone /Condition	Test Entry(s)	Recurrent Parent	DUS traits (<i>T.aestivum</i> -38; <i>T. durum</i> - 45)	
			Number and details of traits differing from recurrent parent	# of traits matching with recurrent Parent
SPL-MABB - NWPZ; IR-TS-TAS - 2021-22	PBW901	PBW175	04 (Days to heading, Flag leaf length, Awn length, TGW, grain texture)	34 traits
	PBW902	PBW677	17 (Wax on leaf sheath, wax on ear, wax on foliage, wax on ear, wax on peduncle, Flag leaf breadth, plant height, Awn colour, Awn attitude, Ear colour, Shaller width, Shaller shape, beak length, beak shape, grain colouration upon phenol reaction, TGW, grain texture)	21 traits
SPL-MABB - NWPZ/NEPZ; IR-TS-TAS - 2021-22	HD3406*	HD2967	03 (Days to heading, Flag leaf Length, Flag leaf breadth)	35 traits
	HD3436	HD2967	08 (Foliage colour, Days to heading, Wax on foliage, Wax on ear, Ear Length, Awn Colour, Shaller shape, Beak Length)	30 traits
	HD3437	HD2967	12 (Foliage Colour, Flag Leaf attitude, days to heading, wax on ear, Flag leaf width, Ear length, Awn length, Awn colour, Ear colour, Shaller shape, grain Phenol colouration, TGW)	26 traits
SPL-MABB - NEPZ IR-TS-TAS - 2021-22	HD3411*	HD2733	17 (Flag leaf attitude, days to heading, wax on foliage, Flag leaf length, Flag leaf breadth, Plant height, Ear length, Awn length, shaller width, shaller shape, beak length, beak shape, Peduncle attitude, Grain colour on phenol reaction, Brush hair length, TGW, grain texture)	21 traits
	HD3440	HD2733	14 (Flag leaf attitude, wax on Foliage, Wax on ear, Wax on peduncle, Flag leaf length, Flag leaf width, ear length, Awn length, Awn colour, Ear colour, Shaller width, Peduncle attitude, TGW, Grain Texture)	24 traits
SPL-MABB - CZ IR-TS-TDM - 2021-22	HI8846	HI8498	04 (Foliage colour, Flag leaf length, Awn length, TGW)	41 traits
	HI8847	HI8498	07 (Foliage colour, Flag Leaf length, Awn Length, Shaller shape, beak shape, Peduncle attitude, TGW)	38 traits
SPL-MABB - CZ IR-LS-TAS - 2021-22	HD3407	HD2932	12 (Growth habit, wax on foliage, wax on ear, flag leaf breadth, plant height, awn colour, ear colour, beak length, peduncle attitude, grain shape, TGW, Grain texture)	26 traits
SPL-MABB - CZ/ PZ IR-LS-TAS - 2021-22	HD3438	HD2932	07 (Wax on foliage, wax on ear, wax on peduncle, Plant height, ear length, beak length, grain shape)	31 traits
	HD3439	HD2932	11 (Wax on foliage, wax on ear, wax on peduncle, awn colour, ear colour, shaller width, shaller shape, beak length, grain shape, brush length, grain texture)	27 traits