ICAR-Indian Institute of Wheat and Barley Research, Karnal

Major advisory (Nov 16-30, 2026)
for
Sowings and other practices across zones of India
Crop Season 2026-27

As per the weather data, the temperature is good for timely sowing of wheat and Barley. Sowing has started in many areas, and farmers are mostly using machines to save time, labour, and seed. Farmers are advised to choose wheat/barley varieties carefully according to sowing time and field conditions for getting better yield. Always buy seed from a reliable source.

General Tips

- Choose the best suitable variety for your area and condition.
- In combine harvested paddy field, the direct wheat seeding can be done using Happy Seeder or Smart Seeder in the presence of loose crop residue.
- Follow timely planting and avoid delay in sowing of wheat/barley crop to avoid yield losses due to adverse effects of heat around maturity.
- Do not grow varieties from other zones to avoid risk of disease susceptibility.
- Manage your crop with optimum inputs (fertilizer, irrigation water, herbicides and fungicides) for maximum yield.
- Timely and judiciously irrigate fields to save water and cut costs.

Wheat Varieties for timely sowing in Northern, Eastern, Central & Peninsular India

Timely Sown Wheat Varieties (November Month)	
Zone	**Variety**
NWPZ: Punjab, Haryana, Part of Rajasthan, West UP	HD3386, PBW 826, HD 3406, DBW 222, DBW 187
NEPZ: East UP, Bihar, Bengal, Jharkhand	DBW386, HD3388, DBW 187, PBW 826, HD 3411, DBW 222,HD3249, HD 3086
CZ: MP, Gujarat, Rajasthan (Udaipur & Kota)	HI1699, NWS2194, HI1650, GW513, GW547, DBW 187, HI 1636, MACS 6768, GW 366
PZ: Maharashtra, Karnataka	WH1306, NWS2222, DBW443, AKAW5100, PBW891, MP1378, MACS4100, DDW48(d), HI8826 (d)

Zone-wise sowing seed rate and fertilizer dose for wheat crop

Zone	Sowing conditions	Seed rate	Fertilizer doses and time of application
NWPZ and NEPZ	Irrigated timely sown	100 kg/ha	150:60:40 kg NPK /ha (1/3 N and full P&K as basal at sowing and remaining N in two equal splits at first and second irrigation)

CZ and PZ	Irrigated timely sown	100 kg/ha	120:60:40 kg NPK /ha (1/3 N and full P&K as basal at sowing and remaining N in two equal splits at first and second irrigation)

Weed management (Herbicide Spray)

- For control of diverse weed flora including multiple herbicide resistant Phalaris minor (Kanaki/Gulli Danda), spray Pyroxasulfone 85 WG at the rate of 60 grams/acre alone or in combination with pendimethalin 30 EC 2.0 lit/acre 0-3 days after sowing

or

- Spray ready mix combination of Aclonifen + diflufenican + pyroxasulfone (Mateno More) @ 800 ml/acre 0-3 days after sowing using 150-200 lit of water.
- Avoid the use of pyroxasulfone based herbicide in durum wheat.
- In herbicide sensitive areas, to control narrow leaf weeds in wheat, apply Clodinafop 15 WP @ 160 gm per acre or Pinoxaden 5 EC @ 400 ml per acre or Sulfosulfuron 75 WDG @ 13.5 g/acre at around 35 days after sowing.
- To control broad leaf weeds, spray 2,4-D 500 ml/acre or metsulfuron 20 WP at 8 grams per acre or carfentrazone 40 DF at 20 g/acre or halauxifen + fluroxypyr 40 EC at 200 g/acre at around 35 days after sowing
- Farmers should spray the crop when weather is clear i. e. no rain, no fog / dew etc.

Irrigation

Farmers are advised to apply first irrigation at 20-25 days after sowing.

Termite Control

- In the termite prone areas, seed treatment with chloropyriphos @ 0.9g a.i /kg seed (4.5 ml product dose / kg seed), be taken up for their management. Seed treatment with thiamethoxam 70WS (Cruiser 70WS) @ 0.7 g a.i./kg seed (4.5 ml product dose / kg seed) or Fipronil (Regent 5FS @ 0.3 g a.i./kg seed or 4.5 ml product dose / kg seed) is also very effective.
- Spray the crop when weather is clear i.e. no rain, no fog / dew etc.

Barley varieties for timely sowing in India

Zone	Production Conditions	Variety
North Western Plains Zone including states of Punjab, Haryana, Delhi, Northern Rajasthan (except Kota and Udaipur Divisions), Western U.P. (except Jhansi Division, Parts of J & K (Jammu and Kathua dist.), parts of H.P. (Una dist. and Paonta valley) and Uttarakhand (Tarai region)	Irrigated Timely sown (10-25 November)	**Feed Barley**: DWRB137, BH946 **Hulless Barley**: PL891, DWRB223 **Dual Purpose Barley**: RD2715, RD2552 **Malt Barley:** DWRB219, DWRUB52, RD2849, DWRB123, DWRB101, DWRB182
North Eastern Plains Zone including states of Eastern UP, Bihar, Jharkhand, Orrisa, West Bengal, Assam and plains of N.E states	Irrigated Timely sown (10-25 November)	**Feed Barley**: DWRB137, HUB113 **Hulless Barley**: K1149, NDB943 **Dual Purpose Barley**: RD2715, RD2552
Central Zone including states of Madhya Pradesh, Chhattisgarh, Gujarat, Southern Rajasthan (Kota		**Feed Barley**: DWRB137, RD2899 **Hulless Barley**: PL891, DWRB223 **Dual Purpose Barley**: RD2715, RD2552

and Udaipur Divisions) and Jhansi Division of Uttar Pradesh		
NWPZ & NEPZ	Salinity and Alkalinity (10-25 November)	**Feed Barley:** NDB1173, RD2794, RD2907

Seed Treatment Recommendations for Barley

Pest/Disease	Treatment
Termite	Dissolve 150 mL of chlorpyrifos (20 EC) in 5 litres of water and use the solution to treat 100 kg of seed.
Covered smut	Mix thiram with Bavistin/Vitavax in a 1:1 ratio and apply at 2.5 g per kg of seed; alternatively, use tebuconazole at 2.0g per Kg of seed.
Biofertilizer	Seed treatment with Azotobacter + PSB at 10-20 ml/kg seed is also recommended.

Weed management (Herbicide Spray)

- For control of diverse weed flora spray pendimethalin 30 EC 1.5-2.0 lit/acre 0-3 days after sowing.

Zone-wise sowing seed rate and fertilizer dose for Barley crop

Zone	Sowing conditions	Seed rate	Fertilizer doses and time of application
NWPZ and NEPZ	Irrigated timely sown	100 kg/ha	For feed and hulless barley apply 60:30:20 kg NPK/ha For malt barley apply 90:30;20 kg NPK/ha (1/2 N and full P&K as basal at sowing and remaining 1/2 N at first irrigation)
CZ and PZ	Irrigated timely sown	100 kg/ha	For feed and hulless barley apply 60:30:20 kg NPK/ha (1/2 N and full P&K as basal at sowing and remaining 1/2 N at first irrigation)

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(Omvir Singh)
Director (A)