

Highest yield harvested from Karan Vandana (DBW 187): A success story of women farmer of Gorakhpur district

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Introduction

Newly wheat (*Triticum aestivum* L.) variety karan vandana (DBW187) is an irrigated timely sown condition of North Eastern Plains Zones of India i.e., mainly Eastern UP, Bihar, Jharkhand, Assam and West Bengal. It was identified by the Varietal Identification Committee Meeting held during 57th All India Wheat workshop at Ranchi, Jharkhand on 25th August, 2018. The variety was identified on the basis of significant yield superiority over the checks during all the three years of testing. It had significant yield advantage over the checks HD 2967 (8.9%), K 0307 (7.3%), HD 2733 (7.0%), K 1006 (5.8%) and DBW 39 (4.7%) and possess better resistance against leaf rust and leaf blight. The variety also has high resistance against the wheat blast disease. This variety flowers in 77 days and matures in 120 days after sowing. The average height of the variety is 100 cm and has the potential of 64.70qt per ha. This variety has better chapati quality with 7.7/10 score and high iron content (43.1ppm) in the grains. DBW 187 (Karan Vandana) has been notified vide notification S.O. 1498 (E) dated 1st April, 2019 for providing better economic and quality replacement of the existing varieties like HD2967, K1006, K0307, HD2733 and DBW 39 to the farmers of the region.

Plan, Implement and Support

In order to popularize and promote this variety, ICAR-Indian Institute of Wheat and Barley Research Institute Karnal in collaboration with Mahayogi Gorakhnath Krishi Vigyan Kendra Chaukmafi (Peepiganj), organised the training programme on 16th Nov 2018 for wheat farmers in which the minikit trials of 2.5 Kg each seed was given to 100 farmers. During the programme the scientist from ICAR –IIWBR Karnal informed the farmers about the latest techniques for harvesting the high yield in wheat and demonstrated them about line sowing of wheat.



Training programme organized by MGKVK for wheat growers

Output

Smt. Koila Devi W/O Sh. Arjun from village Rakhukhor, Jungle kaudiya, Gorakhpur also participated in the training programme and received the minikit of 2.5 kg seed of DBW 187 (Karan Vandana). After getting the seeds she carried out the wheat sowing in line in third fortnight of November, 2018. The previous crop in her field was groundnut. She applied the recommended dose of fertilizers (150:60:40kg NPK/ha) in the field and applied irrigation two



Women farmer with DBW 187 crop

times and there was rain during the time of third irrigation. She carried out the weeding manually two times during the crop season. On 10th April, 2019 she harvested 220 Kg wheat yield from small area of 266m². Other farmers namely, Ramenewas Maurya, Babu Ram Yadav, Hema Raj Prajapati, Ram Narayan Maurya, Lalaprasad Yadav and Mahendra Singh of the district also harvested high yield (110-180 kg). The harvest from the same amount of seed (2.5 kg) at other farmers' field in the district varied from 80 to 128 Kg from 2.5Kg of the seed. The yield level varied from 80 to 128kg from 2.5kg of seed. The Agronomy scientist and Sr. Scientist & Head of MGKVK regularly visited the

demonstrations and advised the farmers about proper management of the wheat crop. This approach will certainly be helped in rapid popularization of the variety in the region.

Outcome and Impact

Wheat crop is the major rabi crop of the district. The outcome of this demonstration motivated the farming communities to replace their old & mixed variety varieties, non-descriptive varieties. Smt Koila Devi is very happy on improvement in their income, livelihood and set forth example for others. Smt Koila Devi is now the source of aspiration and motivation for the other farmers of this region.



Smt. Koila Devi received Award by DG, ICAR, New Delhi



Smt. Koila Devi Honored by "उत्कृष्ट कृषक सम्मान"

Reference

ICAR-Indian Institute of Wheat and Barley Research Institute Karnal