

on its performance under above mentioned situations the variety CR *Boro* Dhan-601 has been recommended for *boro* areas in the states of Odisha, West Bengal and Assam.

CR *Boro* Dhan-601 is a semi-dwarf variety with height ranging from 87 to 90 cm. characterized as semi dwarf thus fulfilling the requirement of a new plant type. It produces about 8-10 responsive tillers, more number of grains/panicle (> 250), compact, dense and long panicles, dark green foliage, medium slender with white kernel and golden husk colour. The variety with location and production conditions.

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Mash 479, a disease resistant variety of *kharif* urdbean

Mash 479, an urdbean (*Vigna mungo* L. Hepper) variety was developed by Pulses Section, Department of Plant Breeding and Genetics, Punjab Agricultural University, Ludhiana. It was identified during All India Group Meet of MULLaRP and Pigeonpea Workers held on May 16-18, 2010 at CSKHPKV, Palampur. This variety was released and notified by the Central Sub-Committee on Crop Standards Notification and the Release of the vaieties for Agricultural Crops Govt. of India vide notification No. 3-8/2010-SD-IV dated January 11, 2011; for commercial cultivation in thecomprising the states of Punjab, Haryana, Delhi, Rajasthan, parts of Jammu, Western Uttar Pradesh and Plains of Uttarakhand during *kharif* season. Mash 479 has been derived from the cross UG 562 x PantU19 through pedigree method. It has been tested in the All India Coordinated Programme on MULLaRP crops in Initial Varietal Trials and Advance Varietal Trials during 2007 to 2009. It recorded an average yield of 11.77 q/ha, which was 20.34, 43.76 and 8.61 per cent higher than the checks viz., Uttara (9.78 q/ha), WBU108 (7.86 q/ha) and PantU31 (10.79 q/ha), respectively. The average plant height of this variety is 55 cm. The distinguished morphological characteristics of Mash 479 include triangular leaflets, green stem without hairs with medium dark purple tinge. It flowers in 41-45 days. The maturity period of this variety varies from 74 to 93 days depending upon

location and production conditions.

The variety Mash 479 has shown a high degree of tolerance against several diseases, namely, mungbean yellow mosaic virus (MYMV), leaf crinkle virus (LCV), bacterial leaf spot (BLS), powdery mildew (PM), web blight and anthracnose. It is also moderately resistant against root knot nematode at different locations in North West Plain Zone. This variety possesses good culinary properties. It is a medium bold seeded variety with 4.2 g seed weight 100⁻¹ seeds, 4.0 ml 100-seed volume and 1.14 g/ml seed density. Its water absorption and volume expansion percentage after soaking is 58.66 and 125.0, respectively. This variety is free from *kokroos* after soaking in water and it takes 36 minutes cooking time for *dal* preparation. Its water absorption and volume expansion percentage after cooking is 96.24 and 112.53, respectively. This variety has 15.12 per cent solid dispersion after cooking which is a desirable feature. The grains of this variety contain 25.25 per cent protein with tryptophan and methionine contents as 0.80 and 0.97 per cent, respectively. The salient features of this variety are high yield potential, resistance to various diseases with good culinary properties.

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Urdbean variety Mash 391

Mash 391, an urdbean (*Vigna mungo* L. Hepper) variety was developed by Pulses Section, Department of Plant Breeding and Genetics, Punjab Agricultural University, Ludhiana. It was identified by the All India Group Meet of MULLaRP and Pigeonpea Workers held on May 16-18, 2010 at CSKHPKV, Palampur. This variety was released and notified by the Central Sub-Committee on Crop Standards Notification and the Release of the vaieties for Agricultural Crops Govt. of India vide notification Number 3-8/2010-SD-IV dated January 11, 2011 for commercial cultivation in South Zone consisted of Karnataka, Andhra Pradesh, Orissa and Tamil Nadu states in summer season. This variety