



NDO 1101 (Narendra Jayee - 1101) dual purpose as well as suitable for normal and salt affected soils in U.P. sub- committee on crop standard, Notification of varieties

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Introduction:

NDO 1101 (Narendra Jayee - 1101) has been developed through inter - varietal hybridization. It is a fodder variety being medium tall, erect, high tillering ability, better green forage and satisfactory grain yield under normal as well as salt affected soils, thus it is an appropriate variety for release to replace Kent and JHO- 822 which are an old and virtually obsolete varieties. NDO 1101 a dual purpose / double cut variety has good digestibility, acceptable quality and high nutritive value for feeding of animals.

1. Yield:

NDO-1101 has been extremely tested for three years (Rabi 2013-14 to 2015-16) continuously in State Adoptive Trials at RATDS in U.P., one year in coordinated trials and at farmers fields also. It has shown consistently good performance in these trials (green fodder yield **317.93 q/ha** and grain yield **12.33 q/ha**); in coordinated trials GFY **188.90 q/ha** and in demonstrations of fodder out at farmers fields.

It maintained yield superiority of Green fodder yield **8.20%**, **9.86%** and Grain yield **0.657%**, **-1.36 %** over oat varieties Kent, NDO - 711 at RATDS in U.P and GFY **3.22%**, **15.32%** in coordinated trials against UPO - 212 & JHO 822 used as checks, respectively.

2. Disease / insect reaction

This variety is moderately resistant to alternaria blight and Sclerotium root rot disease and resistant to aphids as compared to checks.

3. Recommended ecology

In-agronomical trials, under normal, saline and sodic soils at two locations, the variety exhibited fodder yield superiority over checks.

4. Forage quality

NDO - 1101 variety possess good palatable, tender fodder quality and digestibility as feeding to animals.

5. Grain quality

Grains are medium bold, light creamish in colour and well suited for feeding to animals.

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6. Package of practices along with attainable yield levels

Seed rate: 100 kg /hectare, Sowing time 15 October to 15 November, Fertilizer - 100kg N, 40 kg P₂O₅, 30 kg K₂O. Irrigation - 1 irrigation at 30 days, after that 25 days interval.

First Cutting at 55 days, II cut at flowering for fodder and for grain harvesting at Complete

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Scientist Associated in notification of the variety: Dr. Ramesh Singh Yadav, Dr. D.N. Vishwakarma, Dr. K.N. Maurya, Dr. S.R. Vishwakarma, Mr. S.P. Singh, Dr. A.K. Singh, Dr. A.K. Singh, Dr. Piyusha Singh, Dr. Shambhoo Prasad, Dr. Rajesh Kumar and Dr. S. C. Vimal.