I J P S INTERNATIONAL JOURNAL OF PLANT SCIENCES
ISSN-0973-1547 Volume **14** | Issue 1 | January, 2019 | 55-56

DOI: 10.15740/HAS/IJPS/14.1/55-56
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A CASE STUDY

Assessment of high yielding variety Poshan (HI-8663) of wheat

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Key Words : High yielding, Variety, Poshan (HI-8663), Wheat

How to cite this article : Jharia, Pushpa, Kumar, Sarvesh, Borkar, Jagriti, Mure, Sandhya and Sharma, R.C. (2019). Assessment of high yielding variety Poshan (HI-8663) of wheat. *Internat. J. Plant Sci.*, **14** (1): 55-56, **DOI: 10.15740/HAS/IJPS/14.1/55-56,** Copyright@ 2019: Hind Agri-Horticultural Society.

Article chronicle : Received : 07.09.2018; **Accepted :** 28.12.2018

The progress of human civilization mainly depend on agriculture in Harda district for sustainable income and employment people seen to be very much dependent on mostly two crops that is in *Kharif* soybean crop and *Rabi* wheat crop. The majority of small scale farmer use old variety of wheat which give low yield due to lack of resistant to insect, pest, diseases, drought and other stress. High yielding variety of wheat offer much higher yields, new varieties of wheat have been released for cultivation, higher tolerance/resistant to insect-pest, diseases, heat, cold. It has also higher nutritional value, excellent dalia and bread making quality and other special traits.

Harda is a district of MP situated in central India. It has large area under wheat cultivation where farmer cultivate wheat crop in *Rabi* season in irrigated situation but in some areas farmers do not use improved or high yielding variety still they use old or deshi varieties. To boost food security there must be use of improved varieties of wheat in Harda. Here is shown the assessment study of high yielding variety of wheat Poshan (HI-8663) in irrigated condition. High yielding variety Poshan (HI-8663) is a wheat variety suitable for timely sown and rainfed conditions. This is *Triticum durum* species. The variety was released by CVRC (Central Variety Release Committee). High yielding variety of wheat Poshan (HI-8663) was evaluated at farmer field of Sautada village of Harda district (M.P.) with check (old variety of wheat). Five farmers were selected through personal meeting. After getting training regarding OFT in *Rabi* season year 2013 sowing was done on 16 November 2013 and harvested on 21 March 2014 by farmers.

To evaluate durum variety for irrigated condition farmers applied whole management practices from land preparation to harvesting. 3 parameters were adopted:

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yield (q/ha), No. of earheads/m^2 and B:C ratio. Observations were taken from each farmer's field through economic analysis. It was revealed that farmers got additional net return of Rs. 5631. Cost of cultivation FP was Rs. 19968/- whereas Rs. 21808/- was for Poshan (Trial). Farmes got gross retuned Rs. 61628/- whereas for HYV was Rs. 69099/-, net return was Rs. 41660/- for farmers practices and Rs. 47291/- for Poshan. It was about 39.76 (q/hac) mean yield of wheat recorded of farmers practice while 44.58 (q/hac) mean yield of wheat recorded for HYV, number of earheads/m^2 for farmers practices was 228.2 and 241.8 for Poshan variety. It was revealed that the increased yield per ha of cropped land is the true indicator of the impact of high yielding variety of Poshan over old variety of wheat. B:C ratio mean was recorded 3.08 for FP and 3.16 for Poshan variety. An average increase in yield of about 12.12 per cent over farmers practice (old variety of wheat) return.The similar result also was observed by Pandey *et al*. (2008) who reported that the variety HI 8663 is a widely adapted and high yielding variety, showing 1.4 per cent to 28.4 per cent yield superiority over checks MACS 2846, NIDW 295 and GW 1189, as is evident from 3 years data on testing for yield in National trials by Directorate of Wheat Research, Karnal.

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