

RESULTS OF EVALUATING SOYBEAN PROMISING LINES CREATED FROM DT96 SOYBEAN VARIETY THROUGH GAMMA (Co⁶⁰) IRRADIATION

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Summary

With the aim of improving the lodging resistance of soybean variety DT96, Agricultural Genetics Institute applied the mutation method of Co⁶⁰ gamma irradiation and selected 6 promising lines on M₆ by pedigree method. These lines were evaluated on the field trials in three crop seasons (spring, summer and winter) in Dan Phuong – Ha Noi 2015. The results showed that these lines had the yield of 2.44-3.01 tons/ha, higher than the control DT84's yield (1.91-2.35 tons/ha) with the mild infection caused diseases. Compared to the origin DT96, they had the same growth duration, plant height, disease resistance and yield except three lines of 96-2-25/1-10, 96-6-25/5-3, 96200-13/2 with higher lodging resistance.

Key words: *DT96, gamma, lodging resistance, mutation, soybean.*