

CURRENT STATUS OF DISEASES AND PESTS ON NORTH VIETNAMESE LUFFA ACCESSIONS IN THANH MIEN DISTRICT, HAI DUONG PROVINCE

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Summary

The aim of this study was to investigate levels of damage by fruit flies and levels of resistance to powdery mildew, downy mildew of 108 North Vietnamese luffa accessions in Hai Duong in spring-summer 2017. The result showed that 102 accessions had levels of damage at 8.3- 71.4%, while six accessions did not show any infection by fruit flies at the fruiting stage. This study also identified 17 accessions which were highly resistant to both powdery mildew and downy mildew and had low level of damage by fruit flies (<20%). Of 17, one luffa accession, SDK 12246 showed no damage by fruit flies and high resistance to both powdery and downy mildew. These results are significant by providing valuable phenotype information, especially resistant luffa accessions for plant breeders to create new and highly resistant luffa cultivars.

Keywords: *Downy mildew, Powdery mildew, evaluation, luffa aegyptiaca, fruit fly bactrocera cucurbitae.*