PESTS AND DISEASES IN EDAMAME SOYBEAN PLANTS (Glycine max (L.) Merril) IN KEBONSARI VILLAGE SUMBERSARI DISTRICT JEMBER REGENCY

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ABSTRACT

Edamame soybean (Glycine max L.) is a high-value commodity with significant economic potential in both domestic and international markets. One of the main issues limiting the productivity of edamame soybean plants is the attack of plant pests and diseases. This study aims to identify the types of pests and diseases present in edamame soybean plants. The research employed a survey method, collecting arthropod samples using yellow traps, light traps, sweep nets, and pitfall traps, as well as observing diseases affecting edamame soybean plants. The parameters observed included the types of arthropods, pests, and diseases. The results showed that the most abundant arthropod family captured using yellow traps and sweep nets was Aleyrodidae, while pitfall traps and light traps predominantly captured Hydrophilidae. The pests identified on edamame soybean plants included grasshoppers, whiteflies, armyworms, and leaf-rolling caterpillars. Meanwhile, the diseases observed were leaf rust, root rot, and Fusarium wilt.

Keywords*: arthropods, pests, plant diseases*