

**THE EFFECTIVENESS OF PAPAYA AND SOURSOP LEAVES
EXTRACT TO CONTROL THE MAIN PESTS OF PEANUT (*Arachis
hypogaea* L.)**

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ABSTRACT

Peanut is the second most important legume crop after soybean in Indonesia. Peanut cultivation has constraints that can inhibit growth and reduce production yields. Constraints that are often encountered in peanut cultivation are pests and plant diseases. This research aimed to determine the effect and appropriate concentration of papaya leaves extract and soursop leaves extract to control pests of peanuts. The research has been carried out at the Merden Village, Padureso District, Kebumen Regency, Jawa Tengah in January - April 2024. The research has been conducted with a Completely Randomized Block Design (CRBD) with one factor. Application of herbal pesticides of papaya leaf extract and soursop leaf extract at various concentrations is effective in controlling pests on peanut plants. Treatment papaya leaf extract 8% (P3) and soursop leaf extract 10% (P6) was the best concentration in controlling pests on peanut plants.

Keywords: Peanut, Pest, Leaves Extract Papaya, Leaves Extract Soursop