

## **ABSTRACT**

*A study was conducted to understand the effects of papaya leaf extract (Carica papaya L.) on Aphis sp and on the growth of chili plants (Capsicum annuum L.). The study was conducted using Completely Randomized Design with single factor. The treatment was (young green), adult (dark green), and old (yellow) and concentration 150 g / l; 200 g / l; 250 g / l. The results showed that young papaya leaf extracts with a concentration of 250 g/l were most effective for controlling Aphis sp because the mortality was 100% and death rate was 8.76 individual/day. Furthermore, the papaya leaf extracts do not give a significant effect plant height because the toxins contained in papaya leaves do not give effect damage to plants. However, the papaya leaf extracts give significant effect on fruit weight per plant showing that young papaya leaf extract 250 g/l has the highest average of 29.746 g.*

**Keywords:** *Papaya leaf extract (Carica papaya L.), Aphis sp., Chili (Capsicum annuum L.)*