

## ABSTRACT

Red chili is an important type of vegetable that has high economic value and is suitable for cultivation in tropical areas such as Indonesia. Apart from that, it has quite complete nutritional content, including calories, protein, fat, carbohydrates, calcium, vitamins A,B1. This research aims to determine the influence of manure factors and the influence of mulch factors along with the interaction of factor 1 and factor 2 on the growth and yield of red chili plants. This research was carried out in Pulo Blang Trieng Village, Syamtalira District Bayu, North Aceh Regency. Aceh Province , Road Medan- Banda Aceh in the month March 2023 to June 2023. In this study, a two factor factorial Randomized Blok Design (RBD) was used, the first factor was P1 - cow manure (10 kg/ plot), P2 – chicken manure (10 kg/plot),the second factor was the use of mulch, namely M1 mulch straw (3 cm), black plastic mulch silver. Thus, there are 6 treatment number combinations, each treatment repeated times, totaling 18 experimental units. Composition of treatment combination between manure and mulch. The research observed were plant height, number of branches, stem diameter, number of fruit per plant, number of fruit per plot, weight of fruit per plot and weight of fruit per plot. the results showed that the interaction factors of manure and muls had a significant effect on the number of branches number of fruit per plant number of fruit per plot , fruit weught per plot.

keywords red chili, manure and mulch.