

**Utilisation Red Spinach (*Amaranthus tricolor*) Formulated As Artificial Feed
For Performance Of Fingerling Koi Carp (*Cyprinus carpio*)**

**Afriani¹⁾, Suluh Nusantoro²⁾, Ida Adha Anrosana, P³⁾.
State Polytechnic Of Jember
Harunafriani@gmail.com**

ABSTRACT

The aim of this research was to determine the effect of using red amaranth (*Amaranthus tricolor*) on the growth of koi carp (*Cyprinus carpio*). This research used completely randomized design (CRD) with 4 treatments and 3 replications, namely P0 = 0%, P1 = 1%, P2 = P3 = 2% and 3%. The parameters of this research included the specific growth rate, feed conversion, survival rate and water quality. The results showed that the specific growth rate of koi carp didn't affected by levels red spinach meal ($F_{\text{calculated}} < F_{\text{table}} 5\%$) with each value P0 = 0.67% / day, P1 = 0.67% / day, P2 = 1.19% / day and P3 = 1.07% / day and didn't significantly affect ($F_{\text{calculated}} < F_{\text{table}} 5\%$) of water quality, but highly significant effect ($F_{\text{calculated}} > F_{\text{table}} 1\%$) the survival rate with each value P0 = 80%, P1 = 87%, P2 = 100%, P3 = 100% and significantly ($F_{\text{calculated}} > F_{\text{table}} 5\%$) for feed conversion with the results of each = 8.375 respectively P0, P1 = 7.972, P2 = 4.900 and P3 = 4.986.

Keywords : Food Conversion, Koi Carp, Red Spinach, Specific Growth Rate, Survival Rate, Water Quality.

¹ Student Polytechnic Of Jember, The Concentration Of Aquaculture, Management Program DIV Agro-Industri, Departement Of Agribusiness Management.

² Lecturer Polytechnic Of Jember, Department Of Animal Husbandry, Livestock Production Program.

³ Lecturer Polytechnic Of Jember, departement of agribusiness management, agribusiness management program.