

**Salinity Difference With Natural Food Combination of *Diaphanosoma* sp.
Growth in Mariculture Development Agency Lampung**

ABSTRACT

By

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Zooplankton of the order Cladocera i.e *Diaphanosoma* sp. is natural food for fish and shrimp larvae. Salinity is the one of environmental factors that affect the *Diaphanosoma* sp. It has salinity tolerance limitation and influence its growth and development. Natural food for *Diaphanosoma* sp. culture are *Tetraselmis* sp, *Nannochloropsis* sp. and *Dunaliella* sp. This research has been done to observe the growth rate of *Diaphanosoma* sp. media salinity level air natural food combination.

This research have been done in Life Food Lab, Mariculture Development Agency at Lampung on January to March 2014. Complete Randomized Design (CRD) was applied with 6 treatments and 4 replications. Anova was used for analyzing with 5% LSD.

The best treatment is 10 ppt salinity with the highest population density of *Diaphanosoma* sp. (880 ind/l) and highest growth rate 26,24%.

Keyword : *Diaphanosoma* sp., Salinity, Population Density, Growth rate