Pertumbuhan, Sintasan, dan Kandungan Nutrisi Cacing Polychaeta Nereis diversicolor (O.F.Muller, 1776) yang diberi Jenis Pakan Berbeda dan Kajian Pemanfaatan Polychaeta oleh Masyarakat sebagai Pakan Induk di Pembenihan Udang = Growth, Survival Rate, and Nutrient Content Worm Polychaeta Nereis diversicolor (O.F. Muller, 1776) with Difference Feed and Utilization of Polychaeta by Society as Broodstock Feed in Shrimp Hatchery.

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Abstrak

Many kinds of waste from poultry and fisheries by product such us intestine and blood chicken also shrimp head waste still have high nutrition and significant amounts. There are have high potency utilization as alternative feed another commercial feed for marine worm aquaculture. The aims of this research were to know effect different kinds waste material as feed to growth, survival rate, and nutrient composition marine worm Nereis diversicolor. The research used experimental design in laboratorium. Experimental unit were arranged in a completely randomized design with 4 treatments and 6 replication for each treatment. Kinds of feed were (A) intestine chicken powder; (B) shrimp head powder; (C) blood chicken powder and (D) commercial fish feed as control. The initial weight of worms were range between 0,67 ? 0,71 g, after cultured for 50 days showed weight gain were range between 0,31 ? 1,01 g, spesific growth rate (SGR) 0,73 ? 1,76 %/day, and survival rate 80,56 ? 92,22%. The result of analisis varian weight growth, spesific growth rate, and survival rate showed significant differences. The best treatment was intestine chicken powder compare to the other treatments. The result of proximate analysis such us protein were ranged between 6,37 ? 6,65%. The highest protein on treatment B, and lowest on treatment C. The result of anova showed not significant diferences (P > 0,05) to value protein worm. Value of fat on end exsperiment were ranged between 1,01 ? 2,34%. The highest fat on treatment D and lowest on treatment C. The result of anova showed significanct differences (P < 0,05) to value of fat worm. The conclusionof this research was all kind of feed from local waste material source can be as alternative feed another commercial feed in marine worm aquaculture.