

## Effects of Two Crop Culture on Growth Indexes of Western White Shrimp (*Litopenaeus Vannamei*) in Bushehr Provice

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### Abstract

Two crop culture of western white shrimp with 2 treatments and 2 replicates in each treatments in earthen ponds, each one with area of 0.4 hectares with a density of 20 pl 18 per square meter, were done. For the culture of shrimp in the second stage, the post larvae cultured in nursery pond with area of 0.25 hectare, and density of 96 post larvae in each square meter, and then transfer to the rearing ponds. In each pond, 2 aerators fixed. The first stage of culture began in 19 April with pl 18. The yield pick-up after 96 days. The stocking of P1 in the nursery ponds were done with pl16 and after 38 days hunted and tranfered to second stage culture. The second shrimp culture, prolonged 65 days. In the first culture period (96 days), the mean weight, mean length, daily weight gain, FCR, survival, shrimp production (in one hectare) (were 14.51±0.83 g, 12.08±0.00cm, 0.151±0.161gr, 1.03±0.099gr, 73±9.60 percent and 2132 ±179.97 kilograms and in the second culture period (65 days) 14.56±0.43g, 12.48±0.02 cm, 0.224±0.102g, 1.1±0.48, 92±3.4 percent and 2675 ±78 kilograms measured respectively. Totally, in the second period culture, the initial weight of shrimps was higher 1.95 (g) than the first period culture (0.008 g), therefore growth indexes in the second period were better than the first culture period. correlation coefficient of, weight and length of shrimps with increase of culture days, in the first and second culture periods, were higher than 0.97. This shown that the role of increase of days on the increase of weight is higher than 97 percent. Also, results showed that, there is very strong correlation between increase of days and increase of weight (minimum 0.97 to maximum 0.99).

**Keywords:** western white shrimp, two crop culture, earthen pond, Bushehr.

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