

Effect of Multiple Pressure of meal and Manufacture Holes on Fish Pellet Feed Quality and Production

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Abstract

Special diet was manufactured for fish feeding as a pellets by using of screw instrument (pellet mincer) in order to studying the effect of double pelleting and diameter of pelleting process, once and twice with in three dimensions of diameter (2, 4 and 6 mm) and effect it on machine productivity(P), pellet density(PD), pellet Settling velocity(SV) and pellet water stability (WS). The experiment used the completely randomized design (CRD) with three replication and significant effect tester between treatment at probability 0.05.

The results showed there were significant effect at the double pelleting decrease in (P) and increase in (WS), where as no significant effect in (PD), (SV). with increase manufacture holes diameter from 2 to 4 and to 6 mm are significant increase in (P), (SV) and significant decrease in (PD), (WS). On the other hand the best state between factors of higher value (P) it (37.90 kg/h), with one pelleting and 6 mm die holes, higher value (PD) was (1.147 g/cm³), higher value (WS) at water immersion periods (15, 30, 60, 90, 120 min) with double pelleting and 2 mm die holes, the least value (SV) are recorded (6.43 cm/s) with once pelleting and 2 mm die holes.