

The Effect of Mash Moisture and Die Holes on Fish Pellet Mincer Performance

B. A . AL – Shamari
College of Agric. Diyala Univ.

ABSTRACT

This research included studying some variables process manufacture mash animal inform pellets for fish feed from during determination two levels for mash moisture are 39.2 and 42.3% and using die holes with three diameters are 2 , 4 and 6 mm and effect it in pellet mincer performance during power consumption, Equipment productivity and also pellet temperature and pellet water absorption. The experiment carried out using the completely randomized design (CRD) with three replication.

The results showed that with increase mash moisture from 39.2 to 42.3% it significant effect in increase the productivity and decrease power consumption and pellet temperature and pellet water absorption with increase die holes diameter from 2 to 4 to 6 mm to it significant effect appeared in increase The productivity and decrease the power consumption and pellet temperature and pellet water absorption and the best state between two factors mash moisture and holes diameter are mash moisture 42.3% and die holes diameter 6 mm it provided the productivity up (39.11 kg / h) and the lest power consumption (0.982 kw) and the least pellet temperature 32.3 C and lest water absorption at water immersion different.