

Abstract

Feeding on fish greatly affects the growth and production of fish, the management of fish feeding is one of the most important things that must be considered by fish farmers. Adaptation of feeding to fish is done to adjust the appetite of fish which is the key to maximizing profits for fish farmers. Errors that often occur and become an inhibiting factor for feeding fish are overfeeding. Excessive feeding of fish can result in pollution of the pond environment, reduce oxygen levels in the pond because of eating fish and the growth of uneven fish in the pond.

In this final project a prototype of an automatic fish feeder is made using a pendulum. In this automatic fish feed prototype there is a sensor that can detect the movement of fish against the pendulum in the water. This sensor receives a response from the pendulum found in water that moves based on the movement of the fish. From the movement of fish, it can be seen whether the fish feels hungry or not. If the motion received by the sensor is categorized in a motion that shows hungry fish, the fish feed valve will open. Tests carried out on fish ponds that are on land, are not suitable for use in aquariums or the sea because the tools made are only prototypes. The use of tools is only suitable for use in ponds made on land because it adapts to the type of fish and the area of the pond.

The purpose of this pendulum based fish feed prototype is to help fish farmers in fish feeding management so that fish can grow evenly and can control the pollution of the pond environment due to overfeeding. The end result of this tool can function as an automatic feeder based on the movement of fish in the pond.