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Investigation of the rotation number of a fish feed distribution device disc apparatus

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Abstract

In fish farms established in Uzbekistan, granulated feeds are widely used for feeding fish, but they are distributed mainly by hand. In countries where fisheries are well developed, automatic, semi-automatic, and mechanical feed distribution devices are used to distribute food to fish in lakes where fish are grown, and it gives good results. Taking this into account, it is important to develop a device that distributes food for fish in Uzbekistan and to base its construction scheme on the technological work process. The influence of the number of rotations of the fish feed distribution device disk on the unevenness of the feed distribution and the distribution distance was studied. Based on this, a device for distributing granular feed to fish was developed and the number of revolutions of its feed distribution disc was investigated. When the rotation number of the feed distribution disc was changed from 750 r/min to 1750 r/min, the distribution radius of the feed increased and the unevenness decreased, and when the rotation number of the disc was 1500 r/min, the distribution radius of the feed was 9.6 m and the distribution unevenness was more than 20% it was determined not to be.

Key words: Rotation / disc / fish / apparatus / mechanical devices

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A theoretical method of the reception of blue stem feed by the feeders and transfer to the grinding drum

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