## Fisheries management and fish farming 10/10/2020

One method to increase fish population numbers and reduce the severity of adverse environmental impacts and ecological disturbances is the utilization of traditional fisheries management systems within fisheries. [55] Essentially, traditional fisheries management incorporates the aspects of fisheries management; however, the conservation efforts take into account concepts that place restrictions on the type of gear used and the allotment of permitted angling. [55] Traditional fisheries management also incorporates communities within its conservation efforts which often result in management scenarios where there is co-management conservation efforts led by communities. [55]

Ecosystem-based management of fisheries is another method used for fish conservation and impact remediation. [55][56] Instead of solely focusing conservation efforts on a single species of marine life, ecosystem-based management is used across various species of fish within an environment. [55][56] To improve the adoption of these types of fisheries management, it is important to reduce barriers to entry for management scenarios in order to make these methods more accessible to fisheries globally. [55]

Many governments and intergovernmental bodies have implemented fisheries management policies designed to curb the environmental impact of fishing. Fishing conservation aims to control the human activities that may completely decrease a fish stock or washout an entire aquatic environment. These laws include the quotas on the total catch of particular species in a fishery, effort quotas (e.g., number of days at sea), the limits on the number of vessels allowed in specific areas, and the imposition of seasonal restrictions on fishing.

In 2008 a large scale study of fisheries that used individual transferable quotas and ones that didn't provided strong evidence that individual transferable quotas can help to prevent collapses and restore fisheries that appear to be in decline. [57][58][59][60]

Fish farming has been proposed as a more sustainable alternative to traditional capture of wild fish. However, fish farming has been found to have negative impacts on nearby wild fish<sup>[61]</sup> and farming of predatory fish like salmon can rely on fish feed that is based on fish meal and oil from wild fish.<sup>[62]</sup>