

North America Aquaculture Market Size, Share & Trends Analysis Report By Environment (Marine Water, Fresh Water, Brackish Water), By Fish Species (Carps, Barbels, And Other Cyprinids, Brown Seaweeds), By Country, And Segment Forecasts, 2025 - 2033

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Abstracts

North America Aquaculture Market Summary

The North America aquaculture market size was estimated at USD 35,975.5 million in 2024 and is projected to reach USD 50,463.0 million by 2033, growing at a CAGR of 4.0% from 2025 to 2033. The market is driven by a growing consumer focus on high-quality, protein-rich diets, particularly seafood known for its nutritional and sustainability benefits.

Rising health consciousness and shifting toward omega-3-rich species like salmon and trout significantly boosted regional demand. As wild capture fisheries face stagnation due to overfishing and tightening environmental regulations, aquaculture has become a key solution to meet growing seafood demand. Innovations such as recirculating aquaculture systems (RAS), automated feeding technologies, and genetic advancements in broodstock have significantly boosted production efficiency, allowing for consistent, year-round farming in controlled settings. According to the FAO's State of World Fisheries and Aquaculture 2024, global per capita seafood consumption more than doubled between 1961 and 2022, reaching 20.7?kg, outpacing population growth. In North America, this figure stands even higher at 23.4?kg/year, reflecting strong consumer preference. Moreover, sustainability is a major demand driver, with aquaculture now accounting for 51% of global aquatic animal production. This marks a

fundamental shift in protein sourcing, creating a strategic opportunity for North American producers to meet market expectations for responsibly farmed, traceable, and nutrient-dense seafood.

The rise of land-based and offshore farming systems enables scalable production with reduced environmental impact, drawing strong interest from private investors and public institutions. Opportunities abound in cultivating high-value species such as Atlantic salmon, sea bass, and shellfish, as well as in expanding into seaweed farming and integrated multi-trophic aquaculture (IMTA), offering avenues for product diversification and market differentiation. These aquaculture-derived ingredients are widely used in supplements and fortified foods due to their proven benefits for heart, brain, and immune health. Growing interest in clean-label, sustainable marine products, such as enriched fillets and marine collagen, along with support from initiatives like NOAA's Sea Grant, is fueling expansion in this space.

Technological advancements, including RAS, smart feeding solutions, and AI-powered monitoring tools, are transforming farm operations by enhancing efficiency, sustainability, and profitability. The growing shift toward sustainable feed alternatives, such as insect- and algae-based formulations, also supports eco-friendly practices and premium product positioning. Increasing consumer demand for responsibly sourced, high-quality seafood reinforces trends in organic production and eco-certification, further boosting market appeal and investor confidence. In addition, algae farming is gaining momentum due to its broad applications across food, pharmaceuticals, cosmetics, and bioenergy, adding another promising dimension to the sector's growth potential.

However, despite its strong growth potential, the market faces several restraints that could impede its expansion. Complex and stringent regulatory requirements, particularly environmental impact assessments, water usage, and effluent discharge, add to operational costs and administrative burdens. Disease outbreaks and biosecurity threats remain critical, especially in intensive farming systems, posing risks to stock health and farm viability. Moreover, the scarcity of affordable and suitable coastal or inland sites, along with local opposition (NIMBYism), often creates barriers to establishing new aquaculture facilities.

North America Aquaculture Market Report Segmentation

This report forecasts volume & revenue growth at regional and country levels and provides an analysis of the latest industry trends in each of the sub-segments from 2018 to 2033. For this study, Grand View Research has segmented the North America

aquaculture market report based on environment, fish species, and country:

Environment Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

Marine Water

Fresh Water

Brackish Water

Fish Species Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

Carps, barbels, and other cyprinids

Brown seaweeds

Red seaweeds

Marine shrimps and prawns

Oysters

Tilapias and other cichlids

Catfishes

Clams, cockles, arkshells

Salmons, trouts, smelts

Freshwater fishes nei

Other Fish Species

Country Outlook (Volume, Kilotons; Revenue, USD Million, 2018 - 2033)

North America

U.S.

Canada

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