

# Hydroponics Market Size, Share & Trends Analysis Report By Type (Aggregate Systems, Liquid Systems), By Crops (Tomatoes, Lettuce, Peppers, Cucumbers, Herbs), By Region, And Segment Forecasts, 2021 - 2028

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## Abstracts

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### Hydroponics Market Growth & Trends

The global hydroponics market size is estimated to reach USD 9.76 billion by 2028, exhibiting a CAGR of 20.7% from 2021 to 2028, according to the new study conducted by Grand View Research, Inc. The adoption of smart farming technologies, such as vertical farming, which has helped the evolution of hydroponics, is expected to spur market growth. Continuous improvements in hydroponics technologies and the introduction of innovative, state-of-the-art technologies, including environmental and temperature sensing, remote growth monitoring, and automatic nutrient reading, are likely to fuel the demand.

Based on type, the market is categorized into aggregate systems and liquid systems. The aggregate systems segment is projected to continue holding the largest market share over the forecast period. The liquid systems segment is expected to expand at a high CAGR over the forecast period. Aggregate hydroponics farming encompassed multiple technologies, namely, drip, wick, and ebb and flow. Herein, the plants are grown with the presence of a medium such as rock wool, perlite, and others. It is essential for the farmers to choose the right kind of media for certain crops, as they vary in terms of pH and thickness, which may hinder the smooth growth of roots. However, the liquid systems eliminate the use of such as media and provide the nutrients directly

to the roots, reducing the time required for yield. Hence, the adoption of liquid systems, such as deep-water culture and Nutrient Film Technique (NFT) is expected to witness significant growth over the forecast period.

The primary crops cultivated through the hydroponics method are tomatoes, lettuce, cucumber, and herbs. The majority of indoor farmers use hydroponic systems to grow tomatoes. As a result, the tomatoes segment dominates the entire market in 2020 and is estimated to continue its dominance over the forecast period. Europe held the largest share of the hydroponically grown tomatoes market in 2020 owing to the high cultivation rate in the Netherlands and Italy. Rising demand for organically grown, pesticide-free, and highly nutritious vegetables is expected to drive the adoption of hydroponics for the cultivation of lettuce and other leafy vegetables along with other indoor farming techniques. Among all the leafy vegetables, green leaf lettuce is increasingly gaining popularity among the growers owing to its high consumption rate and worldwide demand. However, owing to the changing and favorable regulations about the growth of legalized marijuana, cannabis farmers across the globe are increasingly adopting the hydroponic farming method.

Asia Pacific held the largest market share in 2020, as countries such as China, South Korea, and Japan are finding lucrative opportunities in hydroponics farming to cater to the rising food demand. However, Europe is expected to register the fastest CAGR over the forecast period owing to the favorable government scenario regarding the development and adoption of alternative farming technologies.

### Hydroponics Market Report Highlights

Middle East, South America, and Asia Pacific are anticipated to witness a lukewarm rise in terms of adoption of hydroponics, on account of the lack of government incentives to set up the infrastructure

Increasing demand for cannabis for medical and recreational uses is expected to boost the adoption among indoor farmers from Canada, Georgia, South Africa, and other such countries

NFT in the liquid hydroponic systems is one of the highly adopted methods used by indoor farmers. However, the state-of-the-art NFT technique is gaining more popularity amongst the growers

Asia Pacific held the largest market share in 2020 owing to the substantial

demand from countries, such as South Korea, China, India, and Hong Kong

Europe is likely to emerge as the prominent segment, holding the largest market share by 2028. The countries such as the Netherlands, Turkey, and Spain witness a high adoption rate of hydroponics

Mexico is projected to portray lucrative opportunities in near future, owing to the presence of market players, such as Hydroponic Systems, Cultura H, and General Hydroponics. Also, the drylands spread over 100 million hectares in the country restrict the agricultural expansion, driving the adoption of hydroponics and other vertical farming technologies

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