

# **Canada Hydroponics Market, By Type (Aggregate Systems, Liquid Systems), By Equipment (HVAC, LED Grow Light, Control Systems, Irrigation Systems, Material Handling, and Others), By Input (Nutrient, Growth Media), By Farming Method (Indoor, Outdoor), By Crop Area (Up 1000 Square Feet, 1000-5000 Square Feet, 5001-10000 Square Feet, 10000-50000 Square Feet, and Above 50000 Square Feet), By Crop Type (Vegetables, Fruits, Flowers, and Others), By Region, Competition, Forecast and Opportunities, 2028**

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## **Abstracts**

Canada hydroponics market is anticipated to grow significantly through 2028 due to the growing population and reduction in arable land, changing climatic conditions and erratic weather patterns, rising need to increase agricultural productivity, increase in demand for fresh food products among the urban population, and growing demand for chemical-free fruits and vegetables. As per Canadian government reports, Canada's agri-food system contributed USD 143.9 billion to Canada's gross domestic product (GDP) which translates to 7% of Canadian GDP in 2022.

Hydroponics is a soilless method of growing plants using water, nutrient solutions, and sometimes an inert growing medium. The plants are grown in a controlled environment, which allows for precise control over the growing conditions, such as temperature, humidity, light, and nutrient levels. Hydroponics are increasingly being used in commercial agriculture to grow a variety of crops such as lettuce, tomatoes, strawberries, and herbs. This method allows for year-round production, higher yields,

and faster growth compared to traditional farming methods.

Hydroponics is an excellent method for urban farming, as it allows people to grow food in small spaces, such as balconies, rooftops, and indoor spaces. This has become increasingly popular in urban areas, where space for traditional agriculture is limited. Hydroponics is also used in research and education, where scientists and students can study plant growth and development in a controlled environment to find new and innovative sustainable agriculture processes. According to report Statistics Canada, Canada's gross domestic expenditures on research and development rose to 3.1% from 2019 to USD 42.6 billion in 2021. To reduce indoor pollution levels and for decoration purposes, hydroponics is becoming more accessible to home gardeners, who can set up small hydroponic systems in their homes to grow fresh produce year-round.

Hence, hydroponics is an innovative and sustainable method of growing plants that has a wide range of applications, from commercial agriculture to urban farming and home gardening. The hydroponics market is expected to continue growing in the coming years, as more people are now aware of its benefits and advantages over traditional farming methods. Therefore, rising awareness about hydroponics is expected to drive the Canada hydroponics market growth.

### Growing Awareness of the Benefits of Hydroponics Cultivation is Driving the Canada Hydroponics Market Demand

The Canada hydroponics market has witnessed a significant surge in demand in recent years, primarily driven by the growing awareness of the benefits associated with hydroponics cultivation. Hydroponics, a soilless method of growing plants, offers numerous advantages over traditional soil-based agriculture, making it an attractive option for farmers and consumers alike. In Canada, there are over 189,874 farms across the country which covers 62.2 million hectares or more than 6% of Canada's land area.

The improved resource efficiency that hydroponics offers is one of the key drivers behind the increasing demand for hydroponics cultivation in Canada. Hydroponics systems are designed to use significantly less water compared to conventional farming methods. By utilizing recirculating systems that capture and reuse water, hydroponics can reduce water consumption by up to 90%. This feature is particularly appealing in regions facing water scarcity or areas where water conservation is a priority.

Additionally, hydroponics allows for precise nutrient management. Instead of relying on

soil quality, hydroponic systems provide plants with a precisely controlled nutrient solution. This targeted approach ensures that plants receive the necessary nutrients in optimal quantities, resulting in faster growth, higher yields, and better crop quality. Furthermore, hydroponics eliminates the need for chemical pesticides and herbicides, promoting healthier and pesticide-free produce.

The rising awareness of food safety and health concerns among consumers has also played a significant role in driving the demand for hydroponics in Canada. With hydroponics, farmers have better control over the growing environment, which allows to produce clean and uncontaminated crops. Consumers are increasingly seeking out fresh and locally grown produce that is free from harmful chemicals, making hydroponically cultivated crops an attractive choice.

The increasing urbanization trend in Canada has also contributed to the growth of the hydroponics market. As cities expand, the availability of land for traditional farming diminishes. Hydroponics presents an innovative solution to this challenge as it can be implemented in urban settings, such as rooftops, indoor spaces, or vertical farms. The ability to grow crops near urban centers ensures a steady supply of fresh produce, reduces transportation costs, and minimizes the carbon footprint associated with food distribution.

Government support and initiatives have further propelled the growth of the hydroponics market in Canada. The government has recognized the potential of hydroponics in addressing food security, sustainability, and economic growth. Various funding programs, grants, and tax incentives have been introduced to encourage the adoption of hydroponic systems and support research and development in the field. The Harrow Research and Development Centre in Harrow, Ontario, is a world-renowned research facility that focuses on developing innovative solutions for the agriculture industry. One of their successful innovations is the Harrow Fertigation Manager, a patented computerized program that controls the flow of nutrients to plants in greenhouses. Therefore, with continued support from the government and advancements in technology, the Canada hydroponics market is expected to experience sustained growth in the upcoming years.

## Growing Demand for Sustainable Agricultural Practices Propels Canada Hydroponics Market Growth

The Canadian hydroponics market has experienced rapid growth in recent years, driven by the increasing demand for sustainable agriculture practices. Sustainable agriculture

practices are critical for environmental protection and the growth of the hydroponics market. Hydroponics, a soilless method of growing plants, offers an innovative approach to sustainable agriculture that can help propel the Canadian hydroponics market's growth.

Sustainable agriculture practices are critical for environmental protection and the growth of the hydroponics market as traditional farming methods have contributed to soil degradation, water pollution, and greenhouse gas emissions. Sustainable agriculture practices, such as hydroponics, provide a sustainable alternative that uses fewer resources while still producing high-quality crops. Hydroponics offers several benefits, including reduced water usage, soil conservation, a controlled environment, and increased productivity.

The demand for sustainable agriculture practices in Canada has been increasing over the years due to various factors. Consumers are becoming more aware of the environmental impact of food production and are looking for sustainable alternatives. This has led to an increase in demand for hydroponically grown produce, which is produced using sustainable agriculture practices.

Hydroponics is becoming increasingly popular in Canada, especially in urban areas where space for traditional farming is limited. Hydroponic farms can be set up in small spaces, such as rooftops, and still produce high yields of fresh produce. This has led to an increase in the number of hydroponic farms in Canada, and the trend is expected to continue as more farmers adopt sustainable agriculture practices.

The adoption of sustainable agriculture practices is critical for the Canadian hydroponics market's growth. Sustainable agriculture practices in hydroponics help to reduce the environmental impact of farming by using fewer resources and producing less waste. Additionally, sustainable agriculture practices in hydroponics allow for precise control of growing conditions, resulting in higher yields of fresh and healthy produce. Hydroponics can produce higher yields of fresh produce in a smaller space, reducing the cost of land and labor. Additionally, hydroponics can produce crops year-round, leading to a more stable income for farmers.

The Canadian government recognizes the importance of sustainable agriculture practices and is supportive of the hydroponics industry. This support has contributed to the growth of the Canadian hydroponics market. As the world faces the challenges of climate change and the need for food security, the adoption of sustainable agriculture practices in hydroponics can contribute to a more sustainable and secure food supply

for Canadians.

As the world faces the challenges of climate change and the need for food security, the adoption of sustainable agriculture practices in hydroponics can contribute to a more sustainable and secure food supply for Canadians. The Canadian hydroponics market's growth is expected to continue as more farmers adopt sustainable agriculture practices, leading to increased productivity, improved crop quality, and economic viability.

### Technological Advancements is a Key Factor Driving the Canada Hydroponics Market

The Canadian hydroponics market is experiencing rapid growth due to several factors, including the growing population and the reduction of arable land. Hydroponics, a soilless method of growing plants, provides an innovative solution to these challenges and is driving the market's growth.

The world's population is growing, and as a result, the demand for food is increasing. Canada is no exception to this trend, and the country's population is expected to continue to grow. According to Statistics Canada, the population of Canada was 38 million in 2020 and is expected to reach 43.5 million by 2030. Meanwhile, the arable land area of Canada was 46.8 million hectares in 2016 and has declined by 7% since 1991. This increase in population will result in a higher demand for food, which will require new methods of food production that can be met by hydroponics.

In addition to the growing population, the amount of arable land is decreasing. Urbanization, soil degradation, and climate change are some of the factors contributing to this reduction. Arable land is defined as land that is suitable for growing crops. With less arable land available, traditional farming methods are becoming less efficient and more costly. Hydroponics provides a solution to the challenges of a growing population and a reduction in arable land.

Hydroponics has several advantages over traditional farming methods. For instance, hydroponics uses less water than traditional farming methods because the water is recirculated. Hydroponics doesn't require soil, which reduces the need for land and makes it possible to grow crops in urban areas. Hydroponics produces higher yields of crops compared to traditional farming methods because the growing conditions can be precisely controlled. At last, hydroponics eliminates the need for pesticides and herbicides, making it a safer and more environmentally friendly method of food production.

Furthermore, the Canadian government recognizes the importance of hydroponics as a solution to the challenges of a growing population and a reduction in arable land. The government has provided funding for research and development, grants for small businesses, and tax incentives for farmers who adopt sustainable farming practices. Due to such reasons, it is expected that Canada hydroponics market is going to rise in the forecasted period.

## Market Segmentation

Canada hydroponics market is segmented based on type, equipment, input, farming methods, crop area, crop type, and region. Based on the type, the market is categorized into aggregate systems and liquid systems. Based on the equipment, the market is segmented into HVAC, LED grow lights, control systems, irrigation systems, material handling, and others. Based on the input, the market is categorized into nutrient and growth media. Based on the farming method, the market is categorized into indoor and outdoor. Based on the crop area, the market is divided into up to 1000 square feet, 1000-5000 square feet, 5001-10000 square feet, 10000-50000 square feet, and above 50000 square feet. Based on the crop type, the market is categorized into vegetables, fruits, flowers, and others.

## Market Players

Argus Control Systems Ltd., Biofloral Inc, Holland Industry, Inc., Hydro-Lite Hydroponics, and Hydrofarm Canada are some of the key players in Canada hydroponics market.

## Report Scope:

In this report, Canada hydroponics market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

### Canada Hydroponics Market, By Type:

Aggregate Systems

Liquid Systems

### Canada Hydroponics Market, By Equipment:

HVAC

LED grow light

Control systems

Irrigation systems

Material handling

Others

Canada Hydroponics Market, By Input:

Nutrient

Growth Media

Canada Hydroponics Market, By Farming Method:

Indoor

Outdoor

Canada Hydroponics Market, By Crop Area:

Up to 1000 Square feet

1000-5000 Square feet

5001-10000 Square feet

10000-50000 Square feet

Above 50000 Square feet

Canada Hydroponics Market, By Crop Type:

Vegetable

Fruits

Flowers

Others

Canada Hydroponics Market, By Region:

Ontario

Quebec

The West

British Columbia

Atlantic Canada

The North

Competitive Landscape

Company Profiles: Detailed analysis of the major companies in Canada hydroponics market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).



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