

Vertical Farming Produce Market Size, Share & Trends Analysis Report By Crop (Tomato, Lettuce, Bell & Chili Peppers, Strawberry, Cucumber, Leafy Greens, Herbs), By Structure, By Growing Mechanism, And Segment Forecasts, 2020 - 2027

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Abstracts

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Vertical Farming Produce Market Growth & Trends

The global vertical farming produce market size is anticipated to reach USD 6.46 billion by 2027, expanding at a CAGR of 25.7% from 2020 to 2027, according to a new report by Grand View Research, Inc. Increasing demand for fresh organic vegetables, the emergence of state-of-the-art agriculture techniques, and growing urbanization are critical factors responsible for market growth. The global farmland area has decreased owing to rapid urbanization across the globe. Degradation of soil quality is another reason for the emergence of alternative farming techniques, such as aquaponics, hydroponics, and aeroponics.

The increasing use of such cultivation techniques by the vertical farmers is expected to boost the demand for fresh produce from vertical farms over the forecast period. However, high initial investments in vertical farms and lack of adoption from top agricultural output countries, such as Russia, India, Brazil, and Ukraine, are some of the restraining factors in the market.

According to the World Bank Group, the global arable land per capita has declined from 0.197 hectares in 2013 to 0.192 hectares in 2016. The scarcity of arable land owing to land degradation has urged the farmers to adopt new solutions to produce fresh food. Thus, many farmers have shifted to the modern indoor cultivation methods, wherein the

crops are stacked in layers inside buildings, shipping containers, and warehouses. Such indoor vertical farms enable the expansion of the total plantation area using the stacked layers of potted seeds. Furthermore, as the crops are grown in a contained environment, farmers can grow various vegetables that cannot be grown outside due to unfavorable conditions, which are anticipated to drive the market growth in regions such as the Middle East and Africa.

North America dominated the market for vertical farming produce in 2019 with a revenue share of more than 33% and is estimated to continue leading over the forecast period. The emerging presence of numerous vertical farming companies in the U.S., such as AeroFarms, Bowery Farming Inc., and Gotham Greens is the major growth driver. These companies provide various types of fresh produce, including leafy greens such as head lettuce, romaine lettuce, arugula, spinach, kale, and other crops such as tomatoes and cucumbers, peppers, basil, and so on. The Middle East market is estimated to witness a high CAGR on account of regional expansions from established players and new vertical farm projects in the region. Companies, such as AeroFarms, Madar Farms, and Badia Farms, are actively investing in existing and new facilities to cater to the rising regional demand for vertical farm produce.

Additionally, the investments and financing from various investors are expected to be a notable factor for the emergence and expansion of market players. The report provides insights into the emerging vertical farming market in Saudi Arabia and the UAE. The report also includes notable financing and investment data for prominent market players.

Vertical Farming Produce Market Report Highlights

Amidst the coronavirus pandemic, the use of eCommerce platforms to order fresh vegetables is drastically increasing across the globe, which boosts the sales of vertically grown crops

The increasing demand for food that is free from soil and pesticide contamination is a critical factor driving the demand for vertically grown crops

The integration of IoT in various devices and equipment, including sensors, monitoring devices, irrigation controls, and climate controls, has improved the vertical farms' operating excellence

The hydroponics segment held a significant market share in 2019. It is

anticipated to maintain its stronghold till 2027 due to the ease of hydroponic farm setup and growing preference for container-based hydroponic farms

Lettuce and other leafy vegetables combined have accounted for more than 50% of the market revenue share among overall Vegetables in 2019 (Including leafy greens, tomatoes, cucumber, and peppers)

The lettuce segment is anticipated to exhibit the highest CAGR from 2020 to 2027 owing to the significant demand for fresh and high-quality head and romaine lettuce from consumers

North America dominated the global market and accounted for over 33% of revenue in 2019 and is expected to maintain its dominance from 2020 to 2027

Emerging economies, such as Singapore and China, are expected to drive the growth of the Asia Pacific regional market owing to the emergence of new vertical farms

Contents

CHAPTER 1 METHODOLOGY AND SCOPE

- 1.1 Market Segmentation
- 1.2 Report Scope
- 1.3 Report Assumptions
- 1.4 Research Methodology
- 1.5 List to Data Sources

CHAPTER 2 EXECUTIVE SUMMARY

- 2.1 Market Summary
- 2.2 Vertical Farming Produce - Industry Snapshot & Key Buying Criteria, 2016 -2027
 - 2.2.1 Market Outlook
 - 2.2.2 Segmental Outlook

CHAPTER 3 MARKET VARIABLES, TRENDS & SCOPE

- 3.1 Vertical Farming Produce Market Dynamics
 - 3.1.1 Market Driver Analysis
 - 3.1.1.1 Growing investments and Government Grants/Subsidies
 - 3.1.1.2 Growing Demand For Organic Food Products
 - 3.1.2 Market Challenge analysis
 - 3.1.2.1 Resistance of Small-Scale Farmers to Shift to Vertical Farming
 - 3.1.3 Market Opportunity Analysis
 - 3.1.3.1 Growing demand for Vertically grown Produce In the Middle East
- 3.2 Penetration & Growth Prospect Mapping
- 3.3 Vertical Farming Produce - Value Chain Analysis
- 3.4 Vertical Farming Produce Market Analysis - Porter's
- 3.5 Vertical Farming Produce Market Analysis - PEST
- 3.6 Major Deals & Strategic Alliances Analysis
 - 3.6.1 Licensing & Partnerships
 - 3.6.2 Technology Collaborations

CHAPTER 4 CROP ESTIMATES & TREND ANALYSIS

- 4.1 Vertical Farming Produce Market: Crop Movement Analysis
 - 4.1.1 Tomato

- 4.1.2 Lettuce
- 4.1.3 Bell & Chili Peppers
- 4.1.4 Strawberry
- 4.1.5 Cucumber
- 4.1.6 Leafy Greens (excluding lettuce)
- 4.1.7 Herbs
- 4.1.8 Other Crops

CHAPTER 5 STRUCTURE ESTIMATES & TREND ANALYSIS

- 5.1 Vertical Farming Produce Market: Structure Movement Analysis
 - 5.1.1 Shipping Container
 - 5.1.2 Building-based

CHAPTER 6 GROWING MECHANISM ESTIMATES & TREND ANALYSIS

- 6.1 Vertical Farming Produce Market: Growing Mechanism Movement Analysis
 - 6.1.1 Aeroponics
 - 6.1.2 Hydroponics
 - 6.1.3 Aquaponics

CHAPTER 7 REGIONAL ESTIMATES & TREND ANALYSIS

- 7.1 Vertical Farming Produce Market, By Region, 2019 & 2027
- 7.2 North America
 - 7.2.1 The U.S.
 - 7.2.1 Canada
 - 7.2.1 Mexico
- 7.3 Europe
 - 7.3.1 The U.K.
 - 7.3.2 Germany
 - 7.3.3 France
 - 7.3.4 Norway
 - 7.3.5 Switzerland
- 7.4 Asia Pacific
 - 7.4.1 China
 - 7.4.2 Japan
 - 7.4.3 Hong Kong
 - 7.4.4 Singapore

7.5 Middle East

7.5.1 Saudi Arabia

7.5.2 UAE

7.6 Africa

CHAPTER 8 COMPETITIVE ANALYSIS

8.1 Recent Developments & Impact Analysis, By Key Market Participants

8.2 Company/Competition Categorization (Key Innovators, Market Leaders, Emerging Players)

8.3 Vendor Landscape

8.3.1 Key Company Market Share Analysis, 2019

8.3.2 Company Market Position Analysis

8.3.3 Competitive Dashboard Analysis

CHAPTER 9 COMPETITIVE LANDSCAPE

9.1 AeroFarms

9.1.1 Company Overview

9.1.2 Financial Performance

9.1.3 Cultivated Crops

9.1.4 Strategic Initiatives

9.1.5 Financing and Investors

9.2 Agricool

9.2.1 Company Overview

9.2.2 Financial Performance

9.2.3 Cultivated Crops

9.2.4 Financing and Investors

9.3 BADIA FARMS

9.3.1 Company Overview

9.3.2 Cultivated Crops

9.3.3 Strategic Initiatives

9.3.4 Financing and Investors

9.4 Bowery Farming Inc.

9.4.1 Company Overview

9.4.2 Financial Performance

9.4.3 Cultivated Crops

9.4.4 Strategic Initiatives

9.4.5 Financing and Investors

9.5 BrightFarms

9.5.1 Company Overview

9.5.2 Financial Performance

9.5.3 Cultivated Crops

9.5.4 Strategic Initiatives

9.5.5 Financing And Investors

9.6 Gotham Greens

9.6.1 Company Overview

9.6.2 Financial Performance

9.6.3 Cultivated Crops

9.6.4 Strategic Initiatives

9.6.5 Financing and Investors

9.7 GrowUp Urban Farms Ltd.

9.7.1 Company Overview

9.7.2 Financial Performance

9.7.3 Cultivated Crops

9.8 InFarm

9.8.1 Company Overview

9.8.2 Financial Performance

9.8.3 Cultivated Crops

9.8.4 Strategic Initiatives

9.8.5 Financing and Investors

9.9 Plenty Unlimited Inc.

9.9.1 Company Overview

9.9.2 Financial Performance

9.9.3 Cultivated crops

9.9.4 Strategic Initiatives

9.9.5 Financing and Investors

9.10 Sky Greens

9.10.1 Company Overview

9.10.2 Financial Performance

9.10.3 Cultivated Crops

9.11 SPREAD Co., Ltd.

9.11.1 Company Overview

9.11.2 Financial Performance

9.11.3 Cultivated Crops

9.11.4 Strategic Initiatives

9.12 Yeshealth Group

9.12.1 Company Overview

- 9.12.2 Financial Performance
- 9.12.3 Strategic Initiatives
- 9.12.4 Financing and Investors

List Of Tables

LIST OF TABLES

- Table 1 Vertical farming produce market, 2016 - 2027 (Revenue USD Million)
- Table 2 Vertical farming produce, by region, 2016 - 2027 (Revenue USD Million)
- Table 3 North America vertical farming produce, by country, 2016 - 2027 (Revenue USD Million)
- Table 4 Europe vertical farming produce, by country, 2016 - 2027 (Revenue USD Million)
- Table 5 Asia Pacific vertical farming produce, by country, 2016 - 2027 (Revenue USD Million)
- Table 6 South America vertical farming produce, by country, 2016 - 2027 (Revenue USD Million)
- Table 7 Middle East vertical farming produce, by country, 2016 - 2027 (Revenue USD Million)
- Table 8 Vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)
- Table 9 Vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)
- Table 10 Vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)
- Table 11 Tomato market by region, 2016 - 2027 (USD Million)
- Table 12 Lettuce market by region, 2016 - 2027 (USD Million)
- Table 13 Bell & chili peppers market by region, 2016 - 2027 (USD Million)
- Table 14 Strawberry market by region, 2016 - 2027 (USD Million)
- Table 15 Cucumber market by region, 2016 - 2027 (USD Million)
- Table 16 Leafy greens (excluding lettuce) market by region, 2016 - 2027 (USD Million)
- Table 17 Herbs market by region, 2016 - 2027 (USD Million)
- Table 18 Other crops market by region, 2016 - 2027 (USD Million)
- Table 19 Shipping container market by region, 2016 - 2027 (USD Million)
- Table 20 Building-based market by region, 2016 - 2027 (USD Million)
- Table 21 Aeroponics market by region, 2016 - 2027 (USD Million)
- Table 22 Hydroponics market by region, 2016 - 2027 (USD Million)
- Table 23 Aquaponics market by region, 2016 - 2027 (USD Million)
- Table 24 North America vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)
- Table 25 North America vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)
- Table 26 North America vertical farming produce market by growing mechanism, 2016 -

2027 (Revenue USD Million)

Table 27 The U.S. vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 28 The U.S. vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 29 The U.S. vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 30 Canada vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 31 Canada vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 32 Canada vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 33 Mexico vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 34 Mexico vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 35 Mexico vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 36 Europe vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 37 Europe vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 38 Europe vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 39 The U.K. vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 40 The U.K. vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 41 The U.K. vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 42 Germany vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 43 Germany vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 44 Germany vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 45 France vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 46 France vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 47 France vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 48 Norway vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 49 Norway vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 50 Norway vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 51 Switzerland vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 52 Switzerland vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 53 Switzerland vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 54 Asia Pacific vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 55 Asia Pacific vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 56 Asia Pacific vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 57 China vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 58 China vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 59 China vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 60 Japan vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 61 Japan vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 62 Japan vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 63 Hong Kong vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 64 Hong Kong vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 65 Hong Kong vertical farming produce market by growing mechanism, 2016 -

2027 (Revenue USD Million)

Table 66 Singapore vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 67 Singapore vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 68 Singapore vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 69 South America vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 70 South America vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 71 South America vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 72 Brazil vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 73 Brazil vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 74 Brazil vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 75 Middle East vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 76 Middle East vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 77 Middle East vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 78 Saudi Arabia vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 79 Saudi Arabia vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 80 Saudi Arabia vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 81 UAE vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 82 UAE vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 83 UAE vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 84 Africa vertical farming produce market by crop, 2016 - 2027 (Revenue USD Million)

Table 85 Africa vertical farming produce market by structure, 2016 - 2027 (Revenue USD Million)

Table 86 Africa vertical farming produce market by growing mechanism, 2016 - 2027 (Revenue USD Million)

Table 87 Company categorization

List Of Figures

LIST OF FIGURES

- Fig. 1 Vertical Farming Produce Market Segmentation
- Fig. 2 Vertical Farming Produce Market Report Scope
- Fig. 3 Vertical Farming Produce - Industry Snapshot & Key Buying Criteria, 2016 - 2027
- Fig. 4 Vertical Farming Produce Market Analysis - Market Dynamics
- Fig. 5 Vertical Farming Produce Market - Key Market Driver Impact
- Fig. 6 Vertical Farming Produce Market - Key Market Challenge Impact
- Fig. 7 Vertical Farming Produce Market - Key Market Opportunity Impact
- Fig. 8 Vertical Farming Produce Market - Growth Prospects
- Fig. 9 Vertical Farming Produce - Value Chain
- Fig. 10 Vertical Farming Produce Market Analysis - Porter's
- Fig. 11 Vertical Farming Produce Market Analysis - PEST
- Fig. 12 Vertical Farming Produce Market - Crop Movement Analysis
- Fig. 13 Vertical Farming Produce Market - Structure Movement Analysis
- Fig. 14 Vertical Farming Produce Market - Growing Mechanism Movement Analysis
- Fig. 15 Regional Marketplace: Key Takeaways
- Fig. 16 Vertical Farming Produce Market - Region Movement Analysis
- Fig. 17 Vertical Farming Produce Market - Key Company Market Share Analysis, 2019
- Fig. 18 Vertical Farming Produce Market - Market Position Analysis
- Fig. 19 Vertical Farming Produce Market - Competitive Dashboard Analysis

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