

Commercial Seeds Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Ownership (Proprietary, Non-Proprietary Seeds), By Type (Conventional Seeds, Biotechnology Seeds), By Region, and By Competition, 2019-2029F

<https://marketpublishers.com/r/C67C6C560769EN.html>

Date: April 2024

Pages: 180

Price: US\$ 4,500.00 (Single User License)

ID: C67C6C560769EN

Abstracts

Global Commercial Seeds Market was valued at USD 62.50 billion in 2023 and is anticipated to project impressive growth in the forecast period with a CAGR of 7.66% through 2029. In the agricultural sector, farmers utilize commercial seeds for crop planting. These seeds undergo processing and refinement to produce high-quality crops on a large scale. Historically, farmers were responsible for seed production and treatment. However, in modern agriculture, specialized seed companies process commercial seeds and distribute them to farmers. The leading players in the global commercial seed industry are currently prioritizing research to improve agricultural production while managing limited resources.

Key Market Drivers

Population Growth and Food Security

As the global population steadily approaches an estimated 9.7 billion by 2050, the imperative to guarantee food security becomes increasingly pronounced. Within this challenge lies a significant opportunity for the commercial seeds market to thrive. The intricate interplay between population growth, food security, and the demand for sustainable agricultural practices is reshaping the dynamics of the global commercial seeds industry. The surge in global population directly correlates with a heightened demand for food. Meeting this demand necessitates agricultural systems capable of delivering higher yields while upholding environmental sustainability. Commercial

seeds, equipped with advanced genetic traits and resilience, present a promising solution to address the escalating food requirements of a burgeoning population.

Population growth mandates a concurrent enhancement in agricultural productivity. Commercial seeds are meticulously bred and engineered to manifest high-yielding characteristics, empowering farmers to optimize crop production and meet the escalating food demand. These seeds often feature traits like disease resistance, accelerated maturation, and enhanced nutritional value, rendering them indispensable in the pursuit of food security. Biotechnological advancements have provided scientists with the tools to develop seeds with precision and efficiency. Genetic modifications facilitate the creation of crops resistant to pests, diseases, and adverse weather conditions. This level of precision in seed development aligns with the objective of ensuring food security by safeguarding crops against potential threats, thereby contributing to a more dependable and sustainable food supply.

The imperative for food security is synonymous with the global drive for sustainable agriculture. Commercial seeds play a pivotal role in promoting sustainable farming practices by minimizing resource utilization and environmental impact. With traits tailored for efficient water management, reduced reliance on pesticides, and optimized nutrient absorption, these seeds contribute to environmentally conscious and economically viable farming methods. Governments worldwide are acknowledging the pivotal role of agriculture in ensuring food security. Supportive policies, subsidies, and incentives aimed at encouraging farmers to adopt commercial seeds bolster the growth of the global market. These initiatives not only stimulate the adoption of advanced agricultural technologies but also enhance the resilience and productivity of the agricultural sector.

Technological Advancements in Seed Development

In the dynamic landscape of agriculture, technological advancements play a pivotal role in driving the evolution of seed development. As the global demand for sustainable and high-yielding crops continues to rise, the fusion of technology and seed science is propelling the growth of the global commercial seeds market to unprecedented levels. One of the primary ways technological advancements are elevating the commercial seeds market is through precise genetic modification. Biotechnology enables scientists to selectively enhance desirable traits in seeds, such as resistance to pests, diseases, and adverse weather conditions. This precision ensures that commercial seeds are tailored to meet the specific requirements of farmers, resulting in

enhanced yields and improved crop resilience.

Traditional breeding methods are time-intensive, often taking years to develop a new seed variety. However, technological innovations like marker-assisted breeding and CRISPR gene editing have revolutionized the breeding process. These accelerated techniques expedite the development of new seed varieties with desired traits in significantly shorter timeframes. The rapid pace of seed development contributes to the dynamic expansion of the commercial seeds market. Advancements in seed technology facilitate the enhancement of various traits contributing to increased agricultural productivity. Seeds can be engineered to mature faster, optimizing the growing season and enabling multiple planting cycles. Moreover, traits such as enhanced nutrient content, drought resistance, and efficient resource utilization bolster crop productivity, making commercial seeds an appealing choice for farmers seeking superior yields.

The integration of data analytics and artificial intelligence into seed development represents another transformative aspect. By analyzing extensive datasets, scientists can identify patterns and correlations related to seed performance under different conditions. This data-driven approach facilitates the creation of seeds that are not only high-yielding but also well-suited to specific environmental factors, fostering sustainable and efficient agriculture. Technology empowers seed developers to customize their products to suit the diverse conditions of different regions. This customization is particularly crucial as climate and soil conditions vary widely across the globe. By tailoring seeds for localized environments, technological advancements ensure that farmers have access to seeds optimized for the unique challenges and opportunities present in their respective regions.

Increasing Emphasis on Sustainable Agriculture

In an era where environmental consciousness holds paramount importance, the agricultural sector is undergoing a significant shift towards sustainable practices. With the global population steadily increasing, the demand for food is on a continual rise, heightening the significance of the intersection between sustainability and agriculture. This transition towards sustainable agriculture is not only addressing environmental concerns but is also emerging as a crucial driver for the expansion of the global commercial seeds market. Sustainable agriculture places a premium on environmental stewardship, seeking methods that minimize ecological impact. Commercial seeds, specifically engineered for sustainability, play a pivotal role in this endeavor. These seeds are intricately designed to optimize resource utilization, reduce reliance on chemical inputs, and promote biodiversity, aligning seamlessly with the tenets of

sustainable farming.

Commercial seeds tailored for sustainable agriculture prioritize maximizing resource efficiency. They exhibit traits that enhance water-use efficiency, decrease the need for synthetic fertilizers, and minimize pesticide usage. By mitigating resource wastage and environmental pollution, these seeds contribute significantly to the overall sustainability of farming practices, attracting environmentally conscious farmers. A cornerstone of sustainable agriculture is soil health, recognized as essential for productive farming. Commercial seeds with traits promoting soil health, such as enhanced nutrient uptake and resistance to soil-borne diseases, are gaining traction. This emphasis on preserving and enhancing soil quality resonates strongly with farmers committed to sustainable land management, further fueling the demand for commercial seeds.

The agricultural sector faces the impacts of climate change, making resilience a crucial factor. Sustainable commercial seeds are developed to withstand climatic variations, aiding farmers in adapting to changing conditions. Traits like drought resistance and heat tolerance bolster crop resilience, ensuring a more consistent and stable food supply even amidst climate-related challenges. Consumer preferences are shifting towards sustainably produced food, reflecting a growing awareness of the environmental and social implications of agricultural practices. There is an increasing demand for products cultivated using sustainable methods. Commercial seeds, engineered for sustainable agriculture, position farmers to meet this demand and tap into consumer markets prioritizing eco-friendly and responsibly produced crops.

Growing Awareness of Precision Farming

In the contemporary agricultural realm, technology is driving progress, with precision farming emerging as a groundbreaking approach. As global awareness and adoption of precision farming practices rise, the interconnectedness between precision farming and the commercial seeds market becomes increasingly evident. Precision farming, or precision agriculture, utilizes technology to optimize farming aspects like planting, irrigation, and crop management. This method relies on real-time data, sensors, and advanced analytics for informed decision-making, ultimately maximizing efficiency and productivity. Farmers recognizing the benefits of precision farming are increasingly seeking seeds tailored for this approach.

Commercial seeds designed for precision farming are leading this agricultural revolution. These seeds feature traits that align with precision agriculture principles, such as uniform germination, consistent growth rates, and adaptability to varying

environmental conditions. Farmers embracing precision farming are turning to these specialized seeds to optimize operations and enhance crop yields. Data analytics play a crucial role in precision farming decision-making. Commercial seeds with traits compatible with data-driven practices are gaining prominence, including disease resistance, nutrient efficiency, and specific maturity periods tailored to precision farming insights. This synergy between seed attributes and data-driven decision-making streamlines agricultural processes.

Precision farming emphasizes resource efficiency, such as water, fertilizers, and pesticides. Commercial seeds developed for precision agriculture often possess traits enhancing resource utilization efficiency, like optimal nutrient uptake, reducing fertilizer usage while aligning with sustainability goals and enhancing economic viability for farmers. Advanced technologies in precision farming enable real-time crop health and growth monitoring. Commercial seeds with traits facilitating easy monitoring and management, such as pest or disease resistance, contribute to resilient and stable crops. Proactive issue addressing ensures higher harvest success rates, making these seeds increasingly appealing to precision-focused farmers.

Key Market Challenges

Intellectual Property and Seed Patents

Intellectual property rights and seed patents have become a double-edged sword in the commercial seeds market. While patents protect the investment made in developing new seed varieties, they also raise concerns about monopolies and limited access to genetic resources. Balancing the need for innovation with fair access to genetic diversity poses a challenge that the industry grapples with, especially in regions where seed saving and sharing have been traditional practices.

Resistance to Genetically Modified Organisms (GMOs)

Despite the promise of improved yields and resilience, genetically modified organisms (GMOs) face resistance from certain consumer groups, environmentalists, and even some farmers. Public skepticism and negative perceptions surrounding GMOs create market challenges for commercial seeds that incorporate biotechnological advancements. Bridging the gap between scientific evidence and public sentiment is a persistent challenge faced by the industry.

Seed Quality and Counterfeit Products

Maintaining seed quality is paramount for successful agriculture, and the market faces challenges related to the proliferation of counterfeit seeds. Substandard or fraudulent products not only undermine the trust between farmers and seed suppliers but also jeopardize crop yields. Implementing effective quality control measures and ensuring traceability throughout the supply chain are ongoing challenges for the commercial seeds industry.

Key Market Trends

Digital Agriculture and Smart Seeds

The integration of digital technologies into agriculture, often referred to as digital farming or precision agriculture, is reshaping the way seeds are developed and utilized. Smart seeds, equipped with sensors and data-collecting capabilities, enable farmers to monitor and manage crops in real-time. This trend is set to revolutionize seed development, offering farmers unprecedented insights into their crops' health, resource utilization, and overall performance.

Gene Editing for Precision Traits

Advances in gene editing technologies, particularly CRISPR-Cas9, are ushering in a new era of precision traits in commercial seeds. This allows for the targeted modification of specific genes, offering more control over desired characteristics such as disease resistance, nutrient efficiency, and environmental adaptability. Gene-edited seeds are anticipated to play a pivotal role in meeting the evolving demands of global agriculture.

Biological Seed Treatments for Sustainable Agriculture

With an increasing emphasis on sustainable farming practices, biological seed treatments are gaining prominence. These treatments involve the application of beneficial microorganisms to seeds, promoting healthier crops and reducing the reliance on synthetic chemicals. As sustainability becomes a central focus, biological seed treatments are anticipated to become a standard practice in the commercial seeds market.

Segmental Insights

Ownership Insights

Based on the category of Ownership, Proprietary ownership is poised to dominate the Global Commercial Seeds Market due to a confluence of factors that underscore its competitive advantage and market resilience. Companies investing heavily in research and development to create genetically modified and high-yielding seed varieties seek to protect their innovations through proprietary ownership, establishing a strong intellectual property framework. This approach not only safeguards the substantial investments made in breeding programs but also allows companies to control the distribution and commercialization of their unique seed technologies. Additionally, proprietary seeds often exhibit superior traits such as resistance to pests and diseases, improved yield potential, and adaptability to diverse environmental conditions. Farmers increasingly recognize the value of these enhanced traits, leading to a growing preference for proprietary seeds that offer a higher likelihood of ensuring a bountiful harvest. The strategic positioning of proprietary ownership aligns with the industry's trajectory, fostering innovation, ensuring sustainability, and maintaining a competitive edge in the dynamic Global Commercial Seeds Market.

Regional Insights

North America is positioned to dominate the Global Commercial Seeds Market for several compelling reasons. The region boasts a highly advanced and technologically sophisticated agricultural sector, characterized by extensive research and development activities. Major seed companies headquartered in North America invest significantly in breeding programs, leveraging cutting-edge biotechnology and genetic engineering to develop high-performance seed varieties. The favorable regulatory environment and a robust intellectual property protection framework further incentivize innovation and investment in the seed industry. Additionally, North American farmers are early adopters of new technologies, embracing genetically modified and hybrid seeds to enhance crop yields and productivity. The region's diverse climate and large-scale agricultural operations contribute to a high demand for specialized seed varieties tailored to different environmental conditions. As a result, North America emerges as a dominant force in the Global Commercial Seeds Market, driving innovation, shaping industry trends, and maintaining a competitive edge in the dynamic global agricultural landscape.

Key Market Players

Dupont De Nemours, Inc.

Syngenta AG

Bayer AG

Land O' Lakes, Inc.

DLF Seeds A/S

Sakata Seed America Inc

Takii Co., Ltd

Adams Agricultural Solutions Ltd

KWS Saat SE Co KGaA

Report Scope:

In this report, the Global Commercial Seeds Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Commercial Seeds Market,By Ownership:

- oProprietary

- oNon-Proprietary Seeds

Commercial Seeds Market,By Type:

- oConventional Seeds

- oBiotechnology Seeds

Commercial Seeds Market, By Region:

- oNorth America

- United States

Canada

Mexico

oEurope

Germany

United Kingdom

France

Italy

Spain

oAsia-Pacific

China

Japan

India

Australia

South Korea

oSouth America

Brazil

Argentina

Colombia

oMiddle East Africa

South Africa

Saudi Arabia

UAE

Kuwait

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Commercial Seeds Market.

Available Customizations:

Global Commercial Seeds market report with the given market data, Tech Sci 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).

Contents

1.PRODUCT OVERVIEW

- 1.1.Market Definition
- 1.2.Scope of the Market
 - 1.2.1.Markets Covered
 - 1.2.2.Years Considered for Study
 - 1.2.3.Key Market Segmentations

2.RESEARCH METHODOLOGY

- 2.1.Objective of the Study
- 2.2.Baseline Methodology
- 2.3.Key Industry Partners
- 2.4.Major Association and Secondary Sources
- 2.5.Forecasting Methodology
- 2.6.Data Triangulation Validation
- 2.7.Assumptions and Limitations

3.EXECUTIVE SUMMARY

- 3.1.Overview of the Market
- 3.2.Overview of Key Market Segmentations
- 3.3.Overview of Key Market Players
- 3.4.Overview of Key Regions/Countries
- 3.5.Overview of Market Drivers, Challenges, Trends

4.VOICE OF CUSTOMER

5.GLOBAL COMMERCIAL SEEDS MARKET OUTLOOK

- 5.1.Market Size Forecast
 - 5.1.1.By Value
- 5.2.Market Share Forecast
 - 5.2.1.By Ownership (Proprietary, Non-Proprietary Seeds)
 - 5.2.2.By Type (Conventional Seeds, Biotechnology Seeds)
 - 5.2.3.By Region
 - 5.2.4.By Company (2023)

5.3.Product Market Map

5.3.1.By Ownership

5.3.2.By Type

5.3.3.By Region

6.NORTH AMERICA COMMERCIAL SEEDS MARKET OUTLOOK

6.1.Market Size Forecast

6.1.1.By Value

6.2.Market Share Forecast

6.2.1.By Ownership (Proprietary, Non-Proprietary Seeds)

6.2.2.By Type (Conventional Seeds, Biotechnology Seeds)

6.2.3.By Country

6.3.North America: Country Analysis

6.3.1.United States Commercial Seeds Market Outlook

6.3.1.1.Market Size Forecast

6.3.1.1.1.By Value

6.3.1.2.Market Share Forecast

6.3.1.2.1.By Ownership

6.3.1.2.2.By Type

6.3.2.Canada Commercial Seeds Market Outlook

6.3.2.1.Market Size Forecast

6.3.2.1.1.By Value

6.3.2.2.Market Share Forecast

6.3.2.2.1.By Ownership

6.3.2.2.2.By Type

6.3.3.Mexico Commercial Seeds Market Outlook

6.3.3.1.Market Size Forecast

6.3.3.1.1.By Value

6.3.3.2.Market Share Forecast

6.3.3.2.1.By Ownership

6.3.3.2.2.By Type

7.EUROPE COMMERCIAL SEEDS MARKET OUTLOOK

7.1.Market Size Forecast

7.1.1.By Value

7.2.Market Share Forecast

7.2.1.By Ownership (Proprietary, Non-Proprietary Seeds)

7.2.2.By Type (Conventional Seeds, Biotechnology Seeds)

7.2.3.By Country

7.3.Europe: Country Analysis

7.3.1.Germany Commercial Seeds Market Outlook

7.3.1.1.Market Size Forecast

7.3.1.1.1.By Value

7.3.1.2.Market Share Forecast

7.3.1.2.1.By Ownership

7.3.1.2.2.By Type

7.3.2.United Kingdom Commercial Seeds Market Outlook

7.3.2.1.Market Size Forecast

7.3.2.1.1.By Value

7.3.2.2.Market Share Forecast

7.3.2.2.1.By Ownership

7.3.2.2.2.By Type

7.3.3.France Commercial Seeds Market Outlook

7.3.3.1.Market Size Forecast

7.3.3.1.1.By Value

7.3.3.2.Market Share Forecast

7.3.3.2.1.By Ownership

7.3.3.2.2.By Type

7.3.4.Italy Commercial Seeds Market Outlook

7.3.4.1.Market Size Forecast

7.3.4.1.1.By Value

7.3.4.2.Market Share Forecast

7.3.4.2.1.By Ownership

7.3.4.2.2.By Type

7.3.5.Spain Commercial Seeds Market Outlook

7.3.5.1.Market Size Forecast

7.3.5.1.1.By Value

7.3.5.2.Market Share Forecast

7.3.5.2.1.By Ownership

7.3.5.2.2.By Type

8.ASIA-PACIFIC COMMERCIAL SEEDS MARKET OUTLOOK

8.1.Market Size Forecast

8.1.1.By Value

8.2.Market Share Forecast

- 8.2.1.By Ownership (Proprietary, Non-Proprietary Seeds)
- 8.2.2.By Type (Conventional Seeds, Biotechnology Seeds)
- 8.2.3.By Country

8.3.Asia-Pacific: Country Analysis

8.3.1.China Commercial Seeds Market Outlook

- 8.3.1.1.Market Size Forecast
 - 8.3.1.1.1.By Value
- 8.3.1.2.Market Share Forecast
 - 8.3.1.2.1.By Ownership
 - 8.3.1.2.2.By Type

8.3.2.Japan Commercial Seeds Market Outlook

- 8.3.2.1.Market Size Forecast
 - 8.3.2.1.1.By Value
- 8.3.2.2.Market Share Forecast
 - 8.3.2.2.1.By Ownership
 - 8.3.2.2.2.By Type

8.3.3.India Commercial Seeds Market Outlook

- 8.3.3.1.Market Size Forecast
 - 8.3.3.1.1.By Value
- 8.3.3.2.Market Share Forecast
 - 8.3.3.2.1.By Ownership
 - 8.3.3.2.2.By Type

8.3.4.Australia Commercial Seeds Market Outlook

- 8.3.4.1.Market Size Forecast
 - 8.3.4.1.1.By Value
- 8.3.4.2.Market Share Forecast
 - 8.3.4.2.1.By Ownership
 - 8.3.4.2.2.By Type

8.3.5.South Korea Commercial Seeds Market Outlook

- 8.3.5.1.Market Size Forecast
 - 8.3.5.1.1.By Value
- 8.3.5.2.Market Share Forecast
 - 8.3.5.2.1.By Ownership
 - 8.3.5.2.2.By Type

9.SOUTH AMERICA COMMERCIAL SEEDS MARKET OUTLOOK

9.1.Market Size Forecast

- 9.1.1.By Value

9.2. Market Share Forecast

- 9.2.1. By Ownership (Proprietary, Non-Proprietary Seeds)
- 9.2.2. By Type (Conventional Seeds, Biotechnology Seeds)
- 9.2.3. By Country

9.3. South America: Country Analysis

9.3.1. Brazil Commercial Seeds Market Outlook

- 9.3.1.1. Market Size Forecast
 - 9.3.1.1.1. By Value
- 9.3.1.2. Market Share Forecast
 - 9.3.1.2.1. By Ownership
 - 9.3.1.2.2. By Type

9.3.2. Argentina Commercial Seeds Market Outlook

- 9.3.2.1. Market Size Forecast
 - 9.3.2.1.1. By Value
- 9.3.2.2. Market Share Forecast
 - 9.3.2.2.1. By Ownership
 - 9.3.2.2.2. By Type

9.3.3. Colombia Commercial Seeds Market Outlook

- 9.3.3.1. Market Size Forecast
 - 9.3.3.1.1. By Value
- 9.3.3.2. Market Share Forecast
 - 9.3.3.2.1. By Ownership
 - 9.3.3.2.2. By Type

10. MIDDLE EAST AND AFRICA COMMERCIAL SEEDS MARKET OUTLOOK

10.1. Market Size Forecast

- 10.1.1. By Value

10.2. Market Share Forecast

- 10.2.1. By Ownership (Proprietary, Non-Proprietary Seeds)
- 10.2.2. By Type (Conventional Seeds, Biotechnology Seeds)
- 10.2.3. By Country

10.3. MEA: Country Analysis

10.3.1. South Africa Commercial Seeds Market Outlook

- 10.3.1.1. Market Size Forecast
 - 10.3.1.1.1. By Value
- 10.3.1.2. Market Share Forecast
 - 10.3.1.2.1. By Ownership
 - 10.3.1.2.2. By Type

10.3.2.Saudi Arabia Commercial Seeds Market Outlook

10.3.2.1.Market Size Forecast

10.3.2.1.1.By Value

10.3.2.2.Market Share Forecast

10.3.2.2.1.By Ownership

10.3.2.2.2.By Type

10.3.3.UAE Commercial Seeds Market Outlook

10.3.3.1.Market Size Forecast

10.3.3.1.1.By Value

10.3.3.2.Market Share Forecast

10.3.3.2.1.By Ownership

10.3.3.2.2.By Type

10.3.4.Kuwait Commercial Seeds Market Outlook

10.3.4.1.Market Size Forecast

10.3.4.1.1.By Value

10.3.4.2.Market Share Forecast

10.3.4.2.1.By Ownership

10.3.4.2.2.By Type

11.MARKET DYNAMICS

11.1.Drivers

11.2.Challenges

12.MARKET TRENDS DEVELOPMENTS

12.1.Recent Development

12.2.Mergers Acquisitions

12.3.Product Launches

13.PORTER'S FIVE FORCES ANALYSIS

13.1.Competition in the Industry

13.2.Potential of New Entrants

13.3.Power of Suppliers

13.4.Power of Customers

13.5.Threat of Substitute Products

14.COMPETITIVE LANDSCAPE

- 14.1.Dupont De Nemours, Inc.
 - 14.1.1.Business Overview
 - 14.1.2.Product Service Offerings
 - 14.1.3.Recent Developments
 - 14.1.4.Key Personnel
 - 14.1.5.SWOT Analysis
- 14.2.Syngenta AG
- 14.3.Bayer AG
- 14.4.Land O' Lakes, Inc.
- 14.5.DLF Seeds A/S
- 14.6.Sakata Seed America Inc
- 14.7.Takii Co., Ltd
- 14.8.Adama Agricultural Solutions Ltd
- 14.9. KWS Saat SE Co KGaA

15.STRATEGIC RECOMMENDATIONS

16. ABOUT US DISCLAIMER

I would like to order

Product name: Commercial Seeds Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Ownership (Proprietary, Non-Proprietary Seeds), By Type (Conventional Seeds, Biotechnology Seeds), By Region, and By Competition, 2019-2029F

Product link: <https://marketpublishers.com/r/C67C6C560769EN.html>

Price: US\$ 4,500.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/C67C6C560769EN.html>