

**Grain Seeds Market Assessment, By Grain Type [Wheat, Maize, Barley, Buckwheat, Oats, Others], By Seed Type [Hybrid, Open-pollinated, Others], By Life Cycle [Annual, Perennial], By Region, Opportunities and Forecast, 2018-2032F**

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**Report description:**

Global grain seeds market is projected to witness a CAGR of 6.09% during the forecast period 2025-2032, growing from USD 45.49 billion in 2024 to USD 73 billion in 2032. The market is crucial for food security, and supplying high-yielding and drought-resistant seeds will address the increasing demand for staple crops worldwide. The grain seeds market includes varieties catering to human consumption, livestock feed, and industrial applications. In developed and developing countries, with the increasing global population, changing diets, and growing urbanization, an increasing demand for grains is enhancing the growth of this market. Developments in hybridizing and genetic modification for seed improvement have resulted in better seed quality with respect to yield potential, disease resistance, and adverse climatic condition tolerance to a greater extent. They are further backed by promising government policies and subsidies to enhance food security across nations. Moreover, the growing inclination towards sustainable agriculture has caused most producers to adopt organic and non-GMO (Genetically Modified Organism) seeds. The gradual expansion of the market for grain seeds is driven by changes and adaptations in agricultural technology, coupled with a growing emphasis on food security and sustainability. The market continues to hold a premium place in the global agricultural economy.

In September 2024, the Stine Seed Company introduced its Seed Catalog for 2025, with corn and soybean products for maximum yield and high versatility. The Stine Seed Catalog of 2025 boasts several new corn and soybean options, including a new range of high-oil hybrids. Moreover, it includes a mix of traited and conventional corn genetics, with some being very suitable for silage. Shift Toward Sustainable Farming Practices Catalyzes Market Expansion

The grain seeds market is significantly influenced by the rising global focus on sustainable agriculture; therefore, farmers are inclined to search for seeds that are more environmentally friendly than ever. The objectives are maintaining productivity over the years while reducing the ecological footprint. They are forced to change their ways due to an increasing understanding of soil health, biodiversity conservation, and water resource management. Organic and non-GMO seeds are taking the limelight in this

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regard as they are viewed as greener and health-friendlier for humans. Utilizing these seeds minimizes the use of chemical fertilizers and pesticides, leading to a reduction of pollution and healthier ecosystems.

Moreover, governments and agricultural organizations have been encouraging sustainable agricultural practices by facilitating incentives for organic farming. Such initiatives have increased consumer preference for organic and sustainably sourced food products, creating a ripple effect in demand for organic grains and seeds. For instance, in September 2024, the Sharjah Department of Agriculture and Livestock (SDAL) launched the initiative of distributing non-genetically modified wheat seeds among farmers. This initiative is expected to further the emirate's objectives for food security and self-sufficiency in wheat production.

This increased orientation towards sustainability enhances the grain seeds market, innovating and paving the way for a greener agricultural landscape.

#### Climate Change and Resilient Crops Influence the Market Growth

The impacts of climate change have significantly increased the demand for resilient grain seeds. In most regions, rainfall has either been infrequent, with longer periods of dry conditions, or excessive increases in temperature. These phenomena lead to changes in traditional farming by minimizing crop yield and increasing the risk of production. Farmers, therefore, opt for stress-tolerant seed varieties that sustain themselves under such terrible conditions.

In March 2024, Seed Co, Zimbabwe's giant seed producer, unveiled two new climate-resilient grain varieties with a view to mitigating the impact of climate change. SC665, a medium maize hybrid, and SCXH102, a sorghum variety, are climate-smart seed varieties bred primarily for drought, heat stress, and other extreme climate tolerances to encourage farmers to adjust to changing climate conditions. An improved tolerance and possibly increased yield could ensure continued and enhanced production by farmers against the challenges of climate change.

Using drought-resistant and heat-tolerant grain seeds allows farmers to continue farming in arid areas or during periods of water shortage. Similarly, seeds with improved resistance against diseases and pests, thriving under changing and different climatic conditions, are in high demand.

Increasing climate changes will result in a high demand for robust seeds, which will be the basis of global agricultural sustainability in the future.

#### Corn Holds the Dominant Market Share

Corn is the dominant and most prominent of all the crops worldwide in the grain seeds market since it finds numerous applications in food, feed, and industrial uses. As a staple food across several regions, corn perhaps serves as the primary raw material for many processed products, such as snacks, cereals, and syrups. Corn is central in global diets, while being one of the key feed sources for livestock, primarily in the poultry and swine industries, which respond to the increasing demand for meat and dairy products.

Furthermore, the increased use of industrial supplies from maize, such as those for biofuels (ethanol) and for starch and bioplastics, is indicating its dominance in the market. Research advancements through seed technology, including hybridization and GM varieties, help largely with crop yield, pest resistance, and adaptability. These augmentations help farmers optimize production and lessen the effects of changing climates.

In August 2024, Syngenta AG launched the most significant NK Seeds corn portfolio, which includes eight new hybrids in the line-up for the 2025 growing season. With this extensive distribution, the company aimed at helping growers boost their yield with strong-performing seeds containing unique traits and genetics to succeed in any scenario.

#### Asia-Pacific Being the Fastest Growing Market

The Asia-Pacific region is expected to become the fastest growing region in the global grain seeds market owing to rise in the population, significant increase in the demand for food, and widespread agricultural practices in the region. The region has a considerable share of global grain consumption, consisting of staple crops like rice, wheat, and corn at the base of diet in those countries including India, China, and Indonesia. The pressure for other sources of protein and calories posed by urbanization and changing pattern of diets increases the demand for high yielding varieties.

Governments in various Asia-Pacific countries have poured substantial amounts of funding into agricultural development to include hybrids and other high-quality seeds. They subsidize, invest in research programs, and improve infrastructure.

Nevertheless, increased awareness of advanced farming techniques and precision agriculture enables farmers, especially those in

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crowded and resource-poor areas, to boost production levels further still.

In November 2024, Sindh Agriculture University (SAU) Tandojam, in collaboration with United Bank Limited (UBL), started an experimental wheat sowing project aiming to improve agricultural productivity and seed quality among farmers of Sindh. The experimental wheat sowing project is one of various collaborative activities between the university and the bank in the larger context of a multi-pronged initiative called Research Project for Developing Improved Varieties of Cotton and Wheat Seeds, which is meant to develop certified high yielding wheat and cotton seeds that withstand climate stressors.

Future Market Scenario (2025 - 2032F)

-□With growing global requirements for food, innovations will be focused on developing more high-yield and high-stress-tolerant seed varieties to raise the yield and resist the effects of climate change.

-□The emergence of GM seeds will thrive, due to their efficiency applied in pest control, with resistance to disease and extreme weather, even though there are regulatory hindrances for some regions.

-□Demand for energy and the need to safeguard the environment will lead to an increase in grain crops such as corn for ethanol production and other biofuels, enhancing the scope of industrial applications from grain seeds.

Key Players Landscape and Outlook

The global market for grain seeds is dominated by big international players and local manufacturers, striving to deal with the ever-increasing demand for high-quality seeds. Heavy investments have been made by key players in research and development to introduce such varieties, which promise increases in yields and resistance to pests and extremes of weather. For instance, in November 2024, Corteva, Inc. announced an exclusive development in the form of a unique, proprietary non-GMO hybrid technology in one of the most globally important crops, wheat. Corteva's brand new proprietary technology provides 100% wheat germplasm, enabling much faster genetic gains and delivery of the seed over a wider commercial scale.

Regional seed firms are on the rise, particularly in developing markets as they address specific local agricultural and climatic conditions. With seed varieties that resist stresses and are organic, these companies are broadening their portfolios and managing responses to growing demands for sustainable agricultural solutions.

The competitive environment is created by strategic alliances of seed companies with the agricultural technology enterprises and governments to enhance seed development and advance distribution networks. Digital platforms are also major channels to the small and medium farmers in many economies.

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23.4.10. Urban Farmer LLC

\*Companies mentioned above DO NOT hold any order as per market share and can be changed as per information available during research work.

24. Strategic Recommendations

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