

Rice Seed Market Forecasts to 2030 – Global Analysis By Type (Hybrid Seeds, Open-Pollinated Varieties (OPV) Seeds, Genetically Modified (GM) Seeds, and Other Types), Seed Treatment, Distribution Channel, Grain Size, Hybridization Technique, Application and By Geography

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Abstracts

According to Statistics MRC, the Global Rice Seed Market is accounted for \$8.26 billion in 2024 and is expected to reach \$13.48 billion by 2030 growing at a CAGR of 8.5% during the forecast period. Rice seeds are the reproductive units of the rice plant used for growing new rice crops. They can be classified into various types, such as hybrid seeds, open-pollinated varieties (OPVs), and genetically modified (GM) seeds. Rice seeds are selected based on traits like high yield, disease resistance, drought tolerance, and nutritional content. These seeds are essential for agricultural production, enabling farmers to cultivate rice efficiently and sustainably, meeting global food demand while adapting to changing environmental conditions.

Market Dynamics:

Driver:

Increasing global rice consumption

Rice is a staple food for more than half of the world's population, especially in regions like Asia, Africa, and Latin America. As the global population continues to rise, particularly in developing nations, the demand for rice is also expanding. This surge in consumption necessitates the adoption of high-quality, high-yielding rice seed varieties

to ensure a stable and sufficient supply. Additionally, changing dietary preferences and rising income levels in emerging markets are further boosting rice demand. To meet these needs, there is an increased focus on improving rice seed technologies, including hybrid and genetically modified varieties, to enhance productivity and quality.

Restraint:

Regulatory restrictions on GM seeds

The production and distribution of genetically modified crops, including rice, are subject to strict laws in many nations, especially in Europe and some parts of Asia and Africa. These limitations are a result of worries about food safety, biodiversity, and the environment. While GM rice types are prohibited in some areas, others have drawn-out approval procedures that may cause delays in market access. The potential yield increases, pest resistance, and drought tolerance that GM rice seeds offer are therefore not completely realized by farmers in these markets. These legal restrictions restrict the broad use of genetically modified rice and impede the expansion of the market as a whole.

Opportunity:

Growing demand for sustainable agriculture

More sustainable agricultural methods are becoming popular as concerns about food security, climate change, and environmental damage grow. More and more farmers are searching for rice seed types that are resistant to climate-related pressures like drought and flooding and that require fewer chemical inputs, including fertilizers and pesticides. There is a strong demand for genetically modified (GM) rice types that increase resource efficiency, as well as hybrid and organic rice seeds. This trend supports the global movement toward resilient, resource-efficient, and ecologically friendly agricultural systems by increasing crop productivity while also lessening the environmental impact of rice agriculture.

Threat:

Limited seed availability in remote areas

The rice seed companies continue to face significant challenges, particularly in

emerging nations, due to limited seed availability in remote places. Poor distribution networks, a lack of infrastructure, and inadequate storage facilities limit access to high-quality rice seeds in many rural and isolated places. Traditional seed varieties, which may yield less or be more vulnerable to pests and diseases, are frequently used by farmers in these areas. Furthermore, modern hybrid or genetically modified seeds can be prohibitively expensive. The implementation of sophisticated rice farming methods is hampered by the scarcity of enhanced seeds, which lowers agricultural production and reduces the potential advantages of contemporary rice seed advances in these regions.

Covid-19 Impact

The COVID-19 pandemic significantly impacted the rice seed market, disrupting supply chains, delaying shipments, and limiting the availability of high-quality seeds. Lockdowns and travel restrictions hindered the movement of agricultural inputs, affecting both production and distribution. Additionally, many research and development activities were put on hold, slowing down the release of new rice seed varieties. However, the pandemic also highlighted the need for food security, driving renewed interest in sustainable and resilient farming practices, which may boost the rice seed market post-pandemic.

The hybrid seeds segment is expected to be the largest during the forecast period

The hybrid seeds segment is estimated to be the largest, due to their ability to significantly boost crop yields and improve resistance to diseases, pests, and environmental stresses. Hybrid rice varieties offer superior performance, including enhanced drought tolerance and faster growth, which are essential in meeting the growing global demand for food. Additionally, the increasing focus on sustainable agriculture, government support, and technological advancements in seed breeding are accelerating the adoption of hybrid seeds, particularly in regions with intensive rice cultivation.

The commercial farming segment is expected to have the highest CAGR during the forecast period

The commercial farming segment is anticipated to witness the highest CAGR during the forecast period, due to the increasing demand for high-yield, disease-resistant and climate-adapted rice varieties. Commercial farming operations require seeds that deliver consistent, large-scale productivity, and hybrid or genetically modified rice varieties meet these needs. Additionally, the shift towards mechanized farming, government

subsidies, and investments in advanced agricultural technologies support the widespread adoption of high-performance rice seeds, making them essential for large-scale rice producers aiming to maximize output and meet global food demand.

Region with largest share:

Asia Pacific is expected to have the largest market share during the forecast period fuelled by the region's heavy reliance on rice as a staple food, increasing population, and growing demand for higher crop yields. Advancements in hybrid and genetically modified rice varieties, along with government support for agricultural innovation, boost market growth. Additionally, the region faces challenges such as climate change, necessitating the adoption of drought-tolerant and disease-resistant seeds. The expanding adoption of sustainable farming practices and improved distribution networks further fuel the demand for high-quality rice seeds.

Region with highest CAGR:

During the forecast period, the North America region is anticipated to register the highest CAGR, owing to growing demand for high-yielding, disease-resistant rice varieties to meet both domestic and export needs. Advancements in hybrid and genetically modified (GM) seeds, which offer better adaptability to climate conditions and increased productivity, are key factors. Additionally, government support for agricultural innovation, sustainable farming practices, and a focus on food security contribute to the market's growth. The increasing adoption of precision agriculture and modern farming technologies also boosts demand for high-quality rice seeds in the region.

Key players in the market

Some of the key players profiled in the Rice Seed Market include Bayer CropScience AG, Syngenta AG, Corteva Agriscience, Limagrain, KWS SAAT SE & Co. KGaA, Rasi Seeds Pvt. Ltd., East-West Seed Company, Bioseed Genetics International, Nuziveedu Seeds Ltd., Indo-American Hybrid Seeds, Vikram Seeds, Cargill, Inc., Advanta Limited, Krishidhan Seeds Pvt. Ltd., NIPPON DENKA, Saaten-Union, Nihon Nohyaku, and Sharda Cropchem Ltd.

Key Developments:

In December 2024, Silal and Bayer, a global leader in life sciences with a strong focus

on healthcare and nutrition, have strengthened their commitment to agricultural innovation in the UAE through the signing of a comprehensive Memorandum of Understanding (MoU) at the World Agri-Tech Innovation Summit in Dubai. This milestone builds upon the successful partnership established between the organizations.

In November 2024, Corteva Inc. announced collaboration with bp on the companies' shared intent to form a crop-based biofuel feedstock joint venture. The JV envisaged by Corteva and bp would produce and deliver crop-based biofuel feedstocks to help meet the anticipated growth in demand for 'sustainable aviation fuel' (SAF).

In December 2024, Denka Company Limited has launched Biomass BOPS, an earth-friendly, sustainable polystyrene sheet blended with a biomass-derived raw material. This product has been adopted for some containers of desserts sold at stores of FamilyMart Co.,Ltd. as an ISCC PLUScertified product to which sustainable raw materials are allocated by the mass balance method

Types Covered:

Hybrid Seeds

Open-Pollinated Varieties (OPV) Seeds

Genetically Modified (GM) Seeds

Other Types

Seed Treatments Covered:

Coated Seeds

Non-Coated Seeds

Primed Seeds

Distribution Channels Covered:

Online Sales

Retail Stores

Direct Sales

Grain Sizes Covered:

Long-Grain Rice

Medium-Grain Rice

Short-Grain Rice

Hybridization Techniques Covered:

Two-Line System

Three-Line System

Applications Covered:

Commercial Farming

Smallholder Farming

Other Applications

Regions Covered:

North America

US

Canada

Mexico

Europe

Germany

UK

Italy

France

Spain

Rest of Europe

Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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