

Seed Genetics Analytics Market Forecasts to 2034 – Global Analysis By Analytics Type (Genomic Analytics, Phenotypic Analytics, Trait Analytics, Genotype-Phenotype Analytics, Population Genetics Analytics and Other Analytics Types), Data Type, Analytical Function, Crop Type, User Type, and Geography

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Abstracts

According to Statistics MRC, the Global Seed Genetics Analytics Market is accounted for \$0.4 billion in 2026 and is expected to reach \$1.5 billion by 2034 growing at a CAGR of 18.0% during the forecast period. Seed Genetics Analytics encompasses software, sequencing technologies, genomic databases, bioinformatics platforms, and analytical tools used to evaluate genetic characteristics and performance potential in seeds and crop varieties. These technologies analyze genomic markers, genetic variation, breeding data, and phenotypic information to support seed selection and crop improvement. Breeders use genetic analytics to identify desirable traits such as disease resistance, drought tolerance, yield potential, and nutritional characteristics. The technology supports marker-assisted selection, genomic selection, hybrid development, and precision breeding programs. Increasing availability of genomic datasets and advances in sequencing are expanding analytical capabilities. Artificial intelligence and machine learning are enabling faster identification of relationships between genetic traits and field performance. Growing demand for resilient and high-performing crop varieties is supporting adoption across commercial seed development.

Market Dynamics

Driver:

Growing demand for accelerated crop breeding

Increasing demand for faster, more precise crop breeding to address food security and climate challenges is driving adoption of seed genetics analytics. Growing awareness of the potential of genomic selection supports market expansion. Advances in sequencing and analytics technologies improve breeding efficiency. Rising investment in agricultural research drives product adoption. Seed genetics analytics is becoming essential for modern breeding programs.

Restraint:

High costs and data complexity

High costs of genomic sequencing and analytics platforms present barriers to adoption among smaller breeding organizations. Complexity of genetic data analysis requires specialized expertise and infrastructure. Limited availability of skilled bioinformaticians constrains market growth. Integration of diverse data types creates technical challenges. Data standardization and sharing issues affect industry collaboration.

Opportunity:

Innovation in AI and machine learning for breeding

Innovation in artificial intelligence and machine learning for breeding analytics presents significant growth opportunities. Development of user-friendly analytics platforms is expanding market access. Growing availability of genomic data accelerates analytics development. Partnerships between analytics providers and breeding companies expand market reach. Technology advances continue improving prediction accuracy.

Threat:

Competition from traditional breeding methods

Competition from traditional breeding methods may limit adoption of analytics platforms. Economic pressures may affect investment in analytics technologies. Regulatory changes affecting genetic data sharing may impact market development. Data privacy concerns may affect adoption. Rapid growth of analytics attracts new entrants and intensifies competition.

Covid-19 Impact:

The COVID-19 pandemic highlighted the importance of resilient food systems,

accelerating interest in crop breeding and genetics analytics. Supply chain disruptions increased focus on crop improvement and productivity. The post-pandemic period has witnessed sustained investment in agricultural research. Food system transformation continues driving innovation. Digital breeding solutions have gained importance.

The genomic analytics segment is expected to be the largest during the forecast period

The genomic analytics segment is expected to account for the largest market share during the forecast period as genomic analytics provides the foundation for modern breeding programs. Growing adoption of genomic selection drives market expansion. Advances in sequencing technology improve data quality and reduce costs. Established research and development support segment leadership. Genomic analytics is essential for precision breeding.

The genomic selection segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the genomic selection segment is predicted to witness the highest growth rate driven by increasing adoption of genomic selection for accelerating breeding cycles. Growing awareness of the benefits of genomic selection supports market expansion. Advances in analytics algorithms improve prediction accuracy. Consumer demand for faster breeding cycles continues growing. Genomic selection is a key focus area for breeding analytics.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to advanced agricultural research infrastructure, strong presence of seed companies, and early adoption of genomics technologies. The United States hosts major seed genetics analytics providers with established customer bases. High investment in agricultural research reinforces regional market leadership. Growing demand for accelerated breeding drives adoption across the region.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by growing investment in agricultural research, expanding seed industry,

and increasing adoption of genomics technologies. China, India, and Japan are expanding seed genetics analytics capabilities. Growing food security concerns accelerate market growth. Government support for agricultural innovation creates favorable market environment.

Key players in the market

Some of the key players in the Seed Genetics Analytics Market include Bayer AG, Corteva, Inc., Syngenta Group, BASF SE, Eurofins Scientific SE, Illumina, Inc., Agilent Technologies, Inc., 10x Genomics, Inc., Genapsys, Inc., Pairwise, Inari Agriculture, KWS SAAT SE & Co. KGaA, Limagrain, Rijk Zwaan, and Enza Zaden.

Key Developments:

In January 2026, Eurofins Scientific SE announced the launch of a high-throughput genotyping service specifically designed for small and mid-sized seed companies, expanding access to advanced breeding technologies.

In August 2024, Corteva, Inc. expanded its seed genetics analytics portfolio with new breeding value prediction tools powered by machine learning algorithms, improving prediction accuracy for complex traits.

In March 2024, Illumina, Inc. launched a new sequencing platform optimized for agricultural genomics applications, enabling faster and more cost-effective genotyping for plant breeding programs. The platform was designed to democratize access to genomic selection.

Analytics Types Covered:

Genomic Analytics

Phenotypic Analytics

Trait Analytics

Genotype-Phenotype Analytics

Population Genetics Analytics

Other Analytics Types

Data Types Covered:

Genomic Data

Phenotypic Data

Marker Data

Environmental Data

Field Trial Data

Other Data Types

Analytical Functions Covered:

Trait Discovery

Genomic Selection

Parent Selection

Genetic Diversity Analysis

Breeding Value Prediction

Other Analytical Functions

Crop Types Covered:

Cereals & Grains

Oilseeds

Pulses

Fruits & Vegetables

Cash Crops

Other Crop Types

User Types Covered:

Seed Companies

Plant Breeders

Agricultural Biotechnology Companies

Research Institutions

Universities

Other User Types

Regions Covered:

North America

United States

Canada

Mexico

Europe

United Kingdom

Germany

France

Italy

Spain

Netherlands

Belgium

Sweden

Switzerland

Poland

Rest of Europe

Asia Pacific

China

Japan

India

South Korea

Australia

Indonesia

Thailand

Malaysia

Singapore

Vietnam

Rest of Asia Pacific

South America

Brazil

Argentina

Colombia

Chile

Peru

Rest of South America

Rest of the World (RoW)

Middle East

Saudi Arabia

United Arab Emirates

Qatar

Israel

Rest of Middle East

Africa

South Africa

Egypt

Morocco

Rest of 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 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

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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