

Plant Breeding Software Global Market Insights 2025, Analysis and Forecast to 2030, by Market Participants, Regions, Technology, Application, Product Type

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Abstracts

Plant Breeding Software Market Overview

The plant breeding software market is experiencing steady growth, driven by the increasing demand for advanced tools that optimize breeding processes, enhance genetic data analysis, and support the development of high-yield, resilient crops. These software solutions are widely used in agricultural research, breeding enterprises, and by government departments. The market is expected to continue expanding as agriculture moves towards more data-driven and precision techniques. Key players in the market include Agronomix, Prism, Integrated Breeding Platform, NRGene, Phenome Networks, Dorine, Benson Hill, Beijing Academy of Agriculture and Forestry Sciences, Beijing China-agri BRAINS Science & Technology, Higentec, Beijing ICAN Technology, and Biobin Data Sciences.

Market Size

The plant breeding software market is forecast to grow at a compound annual growth rate (CAGR) of 8.0% to 10.0% from 2025 to 2030, driven by the growing need for technological solutions to meet the demands of modern agriculture. Increasing investment in agricultural research and government support for advanced breeding programs are key factors contributing to the growth of this market.

Market Share & Trends Analysis

By Product Type

The plant breeding software market is divided into cloud-based and local deployment solutions, with each serving different needs within the breeding process:

Cloud-Based Software: This segment is expected to capture the larger share of the market, estimated at 60% to 65%, due to the flexibility, scalability, and ease of access it offers to breeding enterprises and research institutions. The cloud-based segment is projected to grow at a CAGR of 9.0% to 10.0%.

Local Deployment Software: While less flexible compared to cloud-based solutions, local deployment software remains popular among users with specific data security requirements. This segment is expected to account for 35% to 40% of the market, growing at a CAGR of 7.5% to 8.5%.

By Application

Plant breeding software is applied across several key sectors, including breeding enterprises, research schools, and government departments:

Breeding Enterprises: The largest application segment, breeding enterprises are increasingly adopting plant breeding software to improve breeding efficiency, data management, and genetic analysis. This segment is expected to hold 50% to 55% of the market share, with a CAGR of 8.5% to 9.5%.

Research Schools: Research schools are heavily investing in plant breeding software to support research projects and academic breeding programs. This segment is projected to account for 30% to 35% of the market share, growing at a CAGR of 8.0% to 9.0%.

Government Departments: Government adoption of plant breeding software for national breeding programs and research initiatives is increasing. This segment is expected to hold 15% to 20% of the market share, growing at a CAGR of 7.5% to 8.5%.

By Key Players

Several key players are leading the market with innovative plant breeding software solutions:

Agronomix: Known for its breeding management software that helps streamline the breeding process and improve productivity.

Prism: Offers advanced software tools that provide data analysis and

visualization for plant breeders, supporting decision-making in breeding programs.

Integrated Breeding Platform: A platform used by breeding programs worldwide, offering tools for the efficient management of breeding data.

NRGene: Specializes in genomic data analysis and bioinformatics solutions for plant breeders.

Phenome Networks: Provides cutting-edge software solutions that combine phenotypic data with genomic data to improve breeding outcomes.

Doraine: Focuses on AI-driven software to enhance the breeding process, offering high-tech solutions for plant breeders.

Benson Hill: Known for its cutting-edge plant breeding and genomics software, leveraging advanced data analytics to accelerate breeding timelines.

Beijing Academy of Agriculture and Forestry Sciences: Provides research-oriented software for plant breeding and genetic improvement programs.

Beijing China-agri BRAINS Science & Technology: A key player in offering AI-driven plant breeding software solutions.

Higentec: Specializes in software for genomic analysis and breeding program management, providing solutions to increase crop yields and resilience.

Beijing ICAN Technology: A software provider for plant breeders focusing on genomic and phenotypic data integration.

Biobin Data Sciences: Focuses on big data analytics for plant breeding, offering software tools to optimize breeding decisions.

By Region

The global plant breeding software market shows strong growth across multiple regions, with regional differences in adoption rates driven by the level of technological development and agricultural infrastructure:

North America: North America is expected to dominate the market with a share of 35% to 40%, driven by large breeding enterprises and significant investment in agricultural R&D. The region is projected to grow at a CAGR of 9.0% to 10.0%.

Europe: Europe, with its strong focus on sustainable agriculture and precision breeding, is expected to hold 25% to 30% of the market share, with a CAGR of 8.0% to 9.0%.

Asia-Pacific: The Asia-Pacific region is forecast to be the fastest-growing market, with a CAGR of 10.0% to 12.0%, driven by increasing adoption of advanced breeding technologies in countries like China and India. This region is expected to hold 20% to 25% of the market share.

Latin America: Latin America is seeing increased demand for plant breeding software as farmers adopt modern breeding techniques. The region is expected to account for 10% to 15% of the market share, growing at a CAGR of 7.0% to 8.0%.

Middle East & Africa: With growing agricultural development projects, the Middle East & Africa region is projected to grow at a CAGR of 7.5% to 8.5%, capturing 5% to 10% of the market share.

Segment Forecasts (2025-2030)

Growth in Key Segments

Cloud-Based Software: Expected to continue dominating the market with a CAGR of 9.0% to 10.0%.

Breeding Enterprises: The largest application segment, expected to grow at a CAGR of 8.5% to 9.5%.

Asia-Pacific Region: Projected to be the fastest-growing region with a CAGR of 10.0% to 12.0%.

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