

Agricultural Genotyping Market to 2034

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Abstracts

The agricultural genotyping market is anticipated to grow from US\$ 3.46 billion in 2025 and is projected to reach US\$ 11.83 billion by 2034; it is expected to register a CAGR of 14.6% during 2026–2034. The agricultural genotyping market growth is attributed to rising demand for climate-resilient crop varieties amid climate change and food security pressures, technological advancements in high-throughput genotyping and sequencing platforms, increased government funding and policy support for genomic research and precision breeding initiatives.

Agricultural genotyping is a method used to identify genetic changes in plants and plant-breeding stock to improve the rate and precision of selecting plants for different purposes. It relies on techniques including PCR, SNP genotyping microarrays Next Generation Sequencing, and genotyping-by-sequencing. Some of its main uses are marker-assisted breeding, characterization of plant material, germplasm description, genetic purity testing, screening for resistance to disease, and detecting tolerance to stressful environments that are non-biological.

The agricultural genotyping market in North America is segmented into the US, Canada, and Mexico. North America is leading the agricultural genotyping market and is highly involved in plant genotyping with its strong research environment (both public and private), generous government funding, and sophisticated technologies. The USA is still a world leader in plant genotyping and they have great research facilities, very advanced scientific organizations, and powerful agricultural biotechnology communities which are very focused on corn soybeans wheat, and cotton. Ag initiatives by USDA are, among others, the Agricultural Genome Initiative that helps connect genomics-based information with phenotype data, build up research collaboration between the geneticists, breeders, and technology suppliers, and accelerate the breeding of more desirable practical crop lines.

Major genotyping projects and genomics-based selection tools are assisting the breeding programs to select the right traits that enhance productivity, disease resistance, and more efficient use of nutrition and other inputs, and withstand drought and heat and other forms of abiotic stresses. Breeding efficiency is boosted further by new technologies. Getting DNA from intact seed by non-invasive methods will help in preserving the viability of the seed while at the same time allowing for a genetic analysis even in the very early days of seed development. Identification by AI of stress and disease symptoms but can be done more quickly than previously possible.

Precision farming, on one side, is leading farmers to be able to combine decisions on planting variety, field-level management with the genetic data of the crops. The regulatory aspects surrounding genetic crop modification of USDA APHIS have changed over time and these changes determine the development of such crops as well as commercialization. There are continued investments in the area of free-use genomic resources, pangenomes of crops, and multi-omics integration - activities that further solidify research support. These, among others, will make breeders able to produce varieties of plants that can adapt to challenging environments and yield well.

Integration of Genomic Selection with High-Throughput Phenotyping and Speed Breeding for Accelerated Genetic Gains to Provide Market Opportunities in Future

The integration of plant genotyping with cutting-edge phenotyping platforms and speed breeding methods is a major leap forward that promises drastic shortening of breeding cycles, significant increase in prediction accuracy and enormous enhancement of genetic gains in principal agronomic traits. Breeders combine very detailed genotyping information with imaging, sensors, and environmental monitoring systems that have reached a high level of development, they will be able to build accurate genome prediction models that account for genotype-by-environment interaction which opens up avenues for very targeted selection of yield, resilience, and quality under lots of climate regimes. For instance, in wheat breeding programs, phenotyping the Fusarium head blight from mobile phone images through deep learning models have yielded very high and reliable phenotyping information for selection of genotypes that are fusarium head blight-resistant and are so resistant to fungal pathogen fusarium head blight which in turn results in higher and more reliable yield and the results proved quite successful with such phenotyping methods being cheaper as compared conventionally employed methods.

Besides, unoccupied aerial vehicles have also supported temporal study of maize canopy cover through image capture and that in return enabled the breeders to gain

deeper insights about maize growth pattern and how the canopy cover changes dynamically. These kinds of strategies deal directly with the phenomic bottleneck where, on one hand, the price of genotyping has gone down to almost negligible level and then again, the expense of phenotyping is still a major problem which allows the breeders and researchers of plant improvement programs of large-scale to evaluate even bigger set of the population within the same timeframe efficiently and cost-effectively. Gainful combination with speed breeding is a technique of artificially making plant grow by manipulating the photoperiod, day length and temperature to shorten the flowering time so that many generations of plants are possible within a short period.

Modernization of breeding programs with genomic selection combined with digital technologies has huge potential to break down bottlenecks that were holding those countries in the Global South back. Public and private sector plant breeders working for food security and sustainability are the main beneficiaries.

The Food and Drug Administration (FDA), USDA National Institute of Food and Agriculture (NIFA), Food and Agriculture Organization of the United Nations (FAO), International Rice Research Institute (IRRI), International Institute of Tropical Agriculture (IITA), Investor Presentation are among the primary and secondary sources referred to while preparing the agricultural genotyping market report.

Reason to buy

Saves and reduces time required for identifying the market growth, size, leading players, and segments in the global Agricultural Genotyping market.

Highlights key business priorities to assist companies in realigning their business strategies

Emphasizes key findings and recommendations that uncover emerging industry trends in the global Agricultural Genotyping market, enabling stakeholders across the value chain to craft effective long-term strategies

Develop/modify business expansion plans by analyzing substantial growth prospects in mature and emerging markets

Scrutinizes in-depth global Agricultural Genotyping market trends, along with factors driving the market, as well as those hindering it

Enhances the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing, and distribution

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