+357 96 030922
info@marketpublishers.com

Global Biofortification Market Size Study & Forecast, by Crop Type (Sweet Potato, Cassava, Rice, Corn, Wheat, Beans, Pearl Millet, and Others) by Targeted Nutrients (Iron, Zinc, Vitamins, Amino Acid, and Others) and Regional Forecasts 2025-2035

https://marketpublishers.com/r/G1EAF53BBDEBEN.html
Date: June 2026
Pages: 285
Price: US$ 3,750.00 (Single User License)
ID: G1EAF53BBDEBEN

Abstracts

The Global Biofortification Market is valued approximately at USD 0.12 billion in 2024 and is expected to grow at a CAGR of around 8.20% throughout the forecast period of 2025–2035. Biofortification refers to the strategic enhancement of the nutritional profile of food crops through advanced agronomic practices, conventional plant breeding, or genetic technologies. This science-driven intervention aims to elevate micronutrient levels such as iron, zinc, amino acids, and essential vitamins—addressing chronic nutritional deficiencies that impact billions globally. As global food systems grapple with rising malnutrition risks and the urgent need for sustainable nutritional interventions, biofortified crops have gradually transitioned from experimental innovations into mainstream agricultural solutions. The market's growth is further fueled by increasing governmental and non-profit investments targeted toward food security initiatives, rising consumer awareness about nutrient-rich food options, and expanding research efforts committed to developing climate-resilient, nutrient-dense crop varieties.

The global pattern of micronutrient deficiencies—often referred to as "hidden hunger"—continues to drive heightened interest in biofortified crops across emerging and developed economies. These crops are being increasingly deployed to uplift nutritionally vulnerable populations, particularly in low- and middle-income regions where dietary diversity remains limited. Several global initiatives, including those by HarvestPlus and multilateral organizations, have reinforced the adoption of biofortification by offering funding support, farmer training programs, and research partnerships. Furthermore, the expanded cultivation of nutrient-enhanced rice, beans,

+357 96 030922
info@marketpublishers.com

wheat, and sweet potato varieties has been propelled by advancements in plant genetics and field-level agronomy. However, despite strong prospects, the market faces challenges such as limited seed access in rural areas, lengthy regulatory approval timelines for genetically modified varieties, and the need for stronger awareness campaigns to accelerate large-scale adoption during the forecast period of 2025–2035.

The detailed segments and sub-segments included in the report are as follows:

By Crop Type:

- Sweet Potato
- Cassava
- Rice
- Corn
- Wheat
- Beans
- Pearl Millet
- Others

By Targeted Nutrients:

- Iron
- Zinc
- Vitamins
- Amino Acid
- Others

+357 96 030922
info@marketpublishers.com

By Gene Pool:

- Primary
- Secondary
- Tertiary

By Technique:

- Conventional Plant Breeding
- Agronomy
- Genetic Technology

By Region:

North America

- U.S.
- Canada

Europe

- UK
- Germany
- France
- Spain
- Italy

+357 96 030922
info@marketpublishers.com

Rest of Europe

Asia Pacific

China

India

Japan

Australia

South Korea

Rest of Asia Pacific

Latin America

Brazil

Mexico

Middle East & Africa

UAE

Saudi Arabia

South Africa

Rest of Middle East & Africa

Primary Gene Pool Category is Expected to Dominate the Market

The primary gene pool segment is poised to hold the largest market share, driven by its

+357 96 030922
info@marketpublishers.com

foundational role in biofortification programs worldwide. Crops bred within this gene pool benefit from natural genetic proximity, allowing plant breeders to transfer nutrient-dense traits more efficiently while preserving agronomic stability. This segment is widely preferred in developing regions due to its cost-effectiveness and alignment with traditional farming systems. Although secondary and tertiary gene pools are gaining recognition for their potential to introduce rare nutritional traits, the primary gene pool remains the bedrock of global biofortification efforts, anchored by its high breeding success rates and compatibility with large-scale cultivation.

Iron-Targeted Biofortified Crops Lead in Revenue Contribution

Among the targeted nutrients, iron-enhanced crops currently generate the highest revenue, fueled by widespread iron deficiency prevalence and substantial research investments dedicated to combating anemia. These crops—particularly iron-fortified beans, pearl millet, and rice—have experienced accelerated adoption in regions prioritizing public health interventions. Meanwhile, zinc and vitamin-enriched crops have gained momentum due to growing recognition of their immune-boosting and developmental benefits, positioning them as vital contributors to global nutrition strategies. Although iron fortification leads the market in revenue, vitamin-targeted crops are emerging as fast-growing contenders, driven by ongoing food security campaigns and technological advancements in plant metabolomics.

The key regions considered for the Global Biofortification Market study include Asia Pacific, North America, Europe, Latin America, and the Middle East & Africa. In 2025, Asia Pacific is expected to dominate the market due to its vast agricultural base, high population density, and persistent micronutrient deficiencies that have necessitated large-scale biofortification initiatives. Nations such as India, China, and Bangladesh are progressively integrating biofortified crops into public food distribution systems and rural farming networks. North America, on the other hand, is witnessing increased adoption facilitated by scientific research hubs and rising consumer interest in functional foods. Europe continues to expand biofortification research under sustainability frameworks, whereas Latin America is strengthening its footprint due to widespread adoption of biofortified beans and maize. Strong policy support, nutritional awareness, and technological advancements collectively drive regional growth.

Major market players included in this report are:

HarvestPlus

+357 96 030922
info@marketpublishers.com

Syngenta AG

Bayer AG

BASF SE

Corteva Agriscience

DuPont Nutrition & Biosciences

Novozymes A/S

Mahyco

KWS SAAT SE

Limagrain Group

CRISPR Therapeutics

Monsanto Company

Evogene Ltd.

Rijk Zwaan

Sakata Seed Corporation

Global Biofortification Market Report Scope:

Historical Data – 2023, 2024

Base Year for Estimation – 2024

Forecast period – 2025-2035

Report Coverage – Revenue forecast, Company Ranking, Competitive Landscape, Growth factors, and Trends

+357 96 030922
info@marketpublishers.com

Regional Scope – North America; Europe; Asia Pacific; Latin America; Middle East & Africa

Customization Scope – Free report customization (equivalent to up to 8 analysts' working hours) with purchase. Addition or alteration to country, regional & segment scope*

The objective of the study is to define market sizes of different segments and countries in recent years and to forecast the values for the upcoming years. The report is designed to integrate both qualitative and quantitative aspects of the industry across the countries included in the study. It offers detailed insights into key drivers and challenges that will shape market growth and identifies potential opportunities in micro-markets for stakeholders to invest strategically. Furthermore, it features an extensive analysis of the competitive landscape and a comprehensive review of the product offerings of major players. The detailed segments and sub-segments of the market are explained below:

Key Takeaways:

Market Estimates & Forecast for 10 years from 2025 to 2035.

Annualized revenues and regional-level analysis for each market segment.

Detailed analysis of the geographical landscape with country-level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of the competitive structure of the market.

Demand side and supply side analysis of the market.

+357 96 030922
info@marketpublishers.com

Contents

+357 96 030922
info@marketpublishers.com

CHAPTER 5. GLOBAL BIOFORTIFICATION MARKET SIZE & FORECASTS BY CROP TYPE 2025-2035

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

+357 96 030922
info@marketpublishers.com

CHAPTER 10. COMPETITIVE INTELLIGENCE

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

……

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

+357 96 030922
info@marketpublishers.com

I would like to order

Product name: Global Biofortification Market Size Study & Forecast, by Crop Type (Sweet Potato, Cassava, Rice, Corn, Wheat, Beans, Pearl Millet, and Others) by Targeted Nutrients (Iron, Zinc, Vitamins, Amino Acid, and Others) and Regional Forecasts 2025-2035

Product link: https://marketpublishers.com/r/G1EAF53BBDEBEN.html

Price: US$ 3,750.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:
info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page https://marketpublishers.com/r/G1EAF53BBDEBEN.html