

Plant Growth Regulators Market by Type (Auxins, Cytokinins, Gibberellins, And Ethylene), Function (Plant Growth Promoters, And Plant Growth Inhibitors), Crop Type (Cereals, Oilseeds Fruits, Turfs), Formulation and Region - Global Forecast to 2029

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Abstracts

The global market for plant growth regulators is estimated at USD 3.3 billion in 2024 and is projected to reach USD 4.6 billion by 2029, at a CAGR of 7.2% during the forecast period. Shifting consumer preferences towards organic and sustainably produced food products are further fueling the demand for plant growth regulators. These regulators allow farmers to reduce the reliance on chemical fertilizers and pesticides, aligning with the growing trend towards environmentally friendly farming practices. Furthermore, the expansion of the horticulture and floriculture industries, particularly in urban areas, is driving the need for plant growth regulators to ensure optimal plant growth and flowering. Additionally, government initiatives and policies promoting sustainable agriculture are encouraging the adoption of plant growth regulators among farmers worldwide. These initiatives aim to address food security concerns, promote agricultural sustainability, and mitigate the environmental impact of farming activities. Overall, the combination of increasing food demand, technological advancements, changing consumer preferences, and supportive government policies is driving the growth of the plant growth regulators market, with promising prospects for further expansion in the future.

“Strong demand for high-value crops.”

The increasing demand for high-value crops, driven by factors such as rising incomes,

rapid urbanization, and growing health consciousness, serves as a significant driver for the plant growth regulators market. High-value crops like fruits, vegetables, and plantation crops are sought after due to their economic value and nutritional benefits. With the global production of primary crops on the rise, particularly high-value crops like sugar cane, corn, wheat, and rice, there is a growing need to optimize their growth and yield. Plant growth regulators play a crucial role in enhancing the productivity and quality of these crops by promoting uniform growth, improving resilience to environmental stressors, and optimizing resource utilization. As farmers strive to meet the increasing demand for high-value crops on limited arable land, the adoption of plant growth regulators becomes indispensable for maximizing yields and ensuring consistent supply to meet market demands. Therefore, the strong demand for high-value crops serves as a driving force behind the growing utilization of plant growth regulators in modern agriculture.

“In 2023, plant growth promoters dominated the plant growth regulators market within the function segment. “

Plant growth promoters encompass various substances, including beneficial microorganisms like plant growth-promoting rhizobacteria (PGPR), mycorrhizal fungi, and biostimulants, which stimulate plant growth and development through various mechanisms. These substances enhance nutrient uptake, improve stress tolerance, and stimulate hormonal activity within plants, leading to increased vigor, yield, and overall health. Several factors contributed to the prominence of plant growth promoters in 2023. Firstly, there was a growing emphasis on sustainable agricultural practices, driven by environmental concerns and regulatory pressures. Plant growth promoters offer eco-friendly solutions that reduce the reliance on chemical fertilizers and pesticides, aligning with the principles of sustainable agriculture. Additionally, advancements in biotechnology and microbiology facilitated the development of novel plant growth-promoting products with enhanced efficacy and specificity, further boosting their adoption in the market. Moreover, increasing awareness among farmers about the benefits of biologicals and plant microbiome interactions fueled the demand for plant growth promoters. As growers sought alternatives to conventional agricultural inputs, they turned to plant growth promoters to improve soil health, enhance crop resilience, and achieve better yields.

“Within the formulation segment of plant growth regulators market, solutions form is expected to grow constantly during the forecast period.”

In the formulation segment of the plant growth regulators market, the solutions form is

anticipated to witness continuous growth throughout the forecast period. This trend can be attributed to several factors driving the preference for solutions over other forms of formulations. Firstly, solutions offer convenience and ease of application, making them popular among farmers and agricultural professionals. With solutions, plant growth regulators can be easily mixed with water and applied through various methods such as foliar spray, soil drenching, or irrigation, ensuring efficient and uniform distribution across crops. Solutions provide versatility in dosage and application, allowing for precise control over the concentration and timing of plant growth regulator application. This flexibility enables growers to tailor their treatment strategies according to specific crop requirements, growth stages, and environmental conditions, thereby optimizing the effectiveness of the plant growth regulators and maximizing crop yields.

“The plant growth regulators market in North America is anticipated to maintain consistent growth throughout the forecast period.”

The anticipated consistent growth of the plant growth regulators market in North America can be attributed to several factors. Firstly, there is a growing emphasis on sustainable agricultural practices in North America, driven by concerns over environmental conservation and food security. Plant growth regulators play a vital role in sustainable agriculture by enhancing crop yield, improving stress tolerance, and optimizing resource utilization. Additionally, advancements in agricultural technology and research are leading to the development of innovative plant growth regulator products with improved efficacy and safety profiles, further driving market growth. Moreover, increasing investments in agriculture, supportive government policies, and rising demand for high-quality and high-yield crops are expected to fuel the adoption of plant growth regulators across US, Canada, and Mexico. This combination of factors is likely to sustain the growth trajectory of the plant growth regulators market in North America over the forecast period.

The Break-up of Primaries:

By Value Chain Side: Demand Side – 41% and Supply Side – 59%

By Designation: CXOs – 31%, Managers – 24%, Executives – 45%

By Region: North America – 25%, Europe – 25%, APAC – 25%, South America – 15%, and RoW - 10%

Key players in this market include BASF SE (Germany), Corteva Agriscience (US), Syngenta Group (Switzerland), FMC Corporation (US), Nufarm (Australia), Bayer AG (Germany), Tata Chemicals Ltd. (India), UPL (India), Sumitomo Chemical Co., Ltd. (Japan), Nippon Soda Co., Ltd. (Japan), Sipcam Oxon Spa (Italy), De Sangosse (France), DHANUKA AGRITECH LTD (India), Sichuan Guoguang Agrochemical Co., Ltd. (China), and Zagro (Singapore).

Research Coverage:

The report segments the plant growth regulators market based on crop type, function, formulation, type, and region. In terms of insights, this report has focused on various levels of analyses—the competitive landscape, end-use analysis, and company profiles, which together comprise and discuss views on the emerging & high-growth segments of the plant growth regulators market, high-growth regions, countries, government initiatives, drivers, restraints, opportunities, and challenges. A detailed analysis of the key industry players has been done to provide insights into their business overview, solutions, services, key strategies, contracts, partnerships, and agreements. New product launches, mergers and acquisitions, and recent developments associated with the plant growth regulators market. Competitive analysis of upcoming startups in the plant growth regulators market ecosystem is covered in this report.

Reasons to buy this report:

The report will help the market leaders/new entrants in this market with information on the closest approximations of the revenue numbers for the overall plant growth regulators market and the subsegments. This report will help stakeholders understand the competitive landscape and gain more insights to position their businesses better and plan suitable go-to-market strategies. The report also helps stakeholders understand the pulse of the market and provides them with information on key market drivers, restraints, challenges, and opportunities. The report provides insights on the following pointers:

Analysis of key drivers (strong demand for high-value crops, rise in resistance development in certain pest and insect species to drive market, and rise in trading requirements for industrial activities), restraints (Long approval period for new products and threat to human health from residue production) opportunities (increasing importance of sustainable food production globally and increased production and yield of crops), and challenges (identification of plant growth regulator-modulated genetic/multigenic expressions and lack of awareness

among growers regarding benefits of plant growth regulators).

Product Development/Innovation: Detailed insights on research & development activities and new product launches in the plant growth regulators market.

Market Development: Comprehensive information about lucrative markets – the report analyses the plant growth regulators market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the plant growth regulators market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like BASF SE (Germany), Corteva Agriscience (US), Syngenta Group (Switzerland), FMC Corporation (US), Nufarm (Australia), Bayer AG (Germany), Tata Chemicals Ltd. (India), UPL (India), Sumitomo Chemical Co., Ltd. (Japan), Nippon Soda Co., Ltd. (Japan), Sipcam Oxon Spa (Italy), De Sangosse (France), DHANUKA AGRITECH LTD (India), Sichuan Guoguang Agrochemical Co., Ltd. (China), Zagro (Singapore), Chemicals Direct (Australia), Hangzhou Tianlong Biotechnology Co., Ltd. (China), sikkoindia (India), Barclay Chemicals (Ireland), PBI-Gordon Companies, Inc., (US), Chaitanya Agro Biotech Pvt. Ltd. (India), Aristo Biotech (India), Redox Industries Limited (India), WinField United (US), and OMEX Agriculture Inc. (Canada).

Contents

1 INTRODUCTION

- 1.1 STUDY OBJECTIVES
- 1.2 MARKET DEFINITION
- 1.3 STUDY SCOPE
 - 1.3.1 MARKET SEGMENTATION
 - 1.3.2 INCLUSIONS & EXCLUSIONS
 - 1.3.3 REGIONS COVERED
 - 1.3.4 YEARS CONSIDERED
- 1.4 CURRENCY CONSIDERED
- TABLE 1 USD EXCHANGE RATES, 2019–2023
- 1.5 VOLUME UNIT CONSIDERED
- 1.6 STAKEHOLDERS
- 1.7 SUMMARY OF CHANGES
 - 1.7.1 RECESSION IMPACT

2 RESEARCH METHODOLOGY

- 2.1 RESEARCH DATA
 - FIGURE 1 PLANT GROWTH REGULATORS MARKET: RESEARCH DESIGN
 - 2.1.1 SECONDARY DATA
 - 2.1.1.1 Key data from secondary sources
 - 2.1.2 PRIMARY DATA
 - 2.1.2.1 Key data from primary sources
 - 2.1.2.2 Key industry insights
 - 2.1.2.3 Breakdown of primaries
 - 2.2 MARKET SIZE ESTIMATION
 - 2.2.1 BOTTOM-UP APPROACH
 - FIGURE 2 PLANT GROWTH REGULATORS MARKET: DEMAND-SIDE ANALYSIS
 - 2.2.2 TOP-DOWN APPROACH
 - 2.2.2.1 Approach to estimate market size using top-down analysis
 - FIGURE 3 PLANT GROWTH REGULATORS MARKET SIZE ESTIMATION STEPS AND RESPECTIVE SOURCES: SUPPLY SIDE
 - FIGURE 4 PLANT GROWTH REGULATORS MARKET: SUPPLY-SIDE ANALYSIS
- 2.3 DATA TRIANGULATION
 - FIGURE 5 DATA TRIANGULATION METHODOLOGY
- 2.4 RESEARCH ASSUMPTIONS

2.5 LIMITATIONS & RISK ASSESSMENT

2.6 PLANT GROWTH REGULATORS MARKET: RECESSION IMPACT

2.6.1 RECESSION MACRO-INDICATORS

FIGURE 6 RECESSION INDICATORS

FIGURE 7 GLOBAL INFLATION RATE, 2011–2022

FIGURE 8 GLOBAL GDP, 2011–2022 (USD TRILLION)

FIGURE 9 RECESSION INDICATORS AND THEIR IMPACT ON PLANT GROWTH REGULATORS MARKET

FIGURE 10 PLANT GROWTH REGULATORS MARKET: EARLIER FORECAST VS. RECESSION FORECAST

3 EXECUTIVE SUMMARY

TABLE 2 PLANT GROWTH REGULATORS MARKET SNAPSHOT, 2024 VS. 2029

FIGURE 11 PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024 VS. 2029 (USD MILLION)

FIGURE 12 PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2024 VS. 2029 (USD MILLION)

FIGURE 13 PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2024 VS. 2029 (USD MILLION)

FIGURE 14 PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2024 VS. 2029 (USD MILLION)

FIGURE 15 PLANT GROWTH REGULATORS MARKET: REGIONAL SNAPSHOT

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN PLANT GROWTH REGULATORS MARKET

FIGURE 16 RISING DEMAND FOR CASH CROPS AND NEED FOR NOVEL AGRICULTURAL SOLUTIONS TO DRIVE GROWTH OF PLANT GROWTH REGULATORS

4.2 EUROPE: PLANT GROWTH REGULATORS MARKET, BY TYPE & COUNTRY
FIGURE 17 AUXINS SEGMENT AND FRANCE TO ACCOUNT FOR SIGNIFICANT SHARE IN 2024

4.3 PLANT GROWTH REGULATORS MARKET: SHARE OF MAJOR REGIONAL SUBMARKETS

FIGURE 18 US TO ACCOUNT FOR LARGEST SHARE (BY VALUE) IN 2024

4.4 PLANT GROWTH REGULATORS MARKET, BY TYPE & REGION

FIGURE 19 CYTOKININS SEGMENT TO ACCOUNT FOR LARGEST MARKET

SHARE DURING FORECAST PERIOD

4.5 PLANT GROWTH REGULATORS MARKET, BY CROP TYPE & REGION

FIGURE 20 CEREALS & GRAINS SEGMENT TO LEAD MARKET DURING REVIEW PERIOD

4.6 PLANT GROWTH REGULATORS MARKET, BY FORMULATION & REGION

FIGURE 21 WATER-DISPERSIBLE & WATER-SOLUBLE GRANULES SEGMENT TO ACCOUNT FOR LARGEST SHARE DURING STUDY PERIOD

4.7 PLANT GROWTH REGULATORS MARKET, BY FUNCTION & REGION

FIGURE 22 PLANT GROWTH PROMOTERS SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MACROECONOMIC INDICATORS

5.2.1 INCREASE IN DEMAND FOR ORGANIC FOOD

FIGURE 23 TOP TEN COUNTRIES WITH LARGE ORGANIC AGRICULTURAL LAND, 2022 (MILLION HECTARES)

FIGURE 24 GLOBAL ORGANIC AGRICULTURAL LAND, BY REGION, 2022

5.2.2 DAMAGE AND LOSS OF AGRICULTURAL LAND

FIGURE 25 PER CAPITA ARABLE LAND AREA, 1960–2050 (HECTARE)

5.3 MARKET DYNAMICS

FIGURE 26 PLANT GROWTH REGULATORS MARKET: DRIVERS, RESTRAINTS, OPPORTUNITIES, AND CHALLENGES

5.3.1 DRIVERS

5.3.1.1 Rising demand for high-value crops

FIGURE 27 GLOBAL PRODUCTION OF FRUITS AND VEGETABLES, 2017–2022 (MILLION TONS)

5.3.1.2 Rise in trading requirements for industrial activities

5.3.1.3 Increased pesticide resistance in certain insect and pest species

5.3.1.4 Need for combating rapid climatic changes

5.3.2 RESTRAINTS

5.3.2.1 Lengthy approval process for new products

5.3.2.2 Threat to human health

5.3.3 OPPORTUNITIES

5.3.3.1 Growing emphasis on sustainable food production

5.3.3.2 Large-scale crop production

5.3.3.3 Technological innovation

5.3.4 CHALLENGES

5.3.4.1 Identification of plant growth regulator-modulate genetic/multigenic expressions

5.3.4.2 Lack of awareness among growers regarding benefits of plant growth regulators

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 VALUE CHAIN ANALYSIS

6.2.1 RESEARCH & PRODUCT DEVELOPMENT

6.2.2 RAW MATERIAL SOURCING

6.2.3 PRODUCTION & MANUFACTURING

6.2.4 PACKAGING, STORAGE, AND DISTRIBUTION

6.2.5 MARKETING, SALES, AND POST-SALES SERVICE

FIGURE 28 VALUE CHAIN ANALYSIS

6.3 TRADE ANALYSIS

TABLE 3 EXPORT VALUE OF PLANT GROWTH REGULATORS, BY KEY COUNTRY, 2023 (USD THOUSAND)

TABLE 4 IMPORT VALUE OF PLANT GROWTH REGULATORS, BY KEY COUNTRY, 2023 (USD THOUSAND)

TABLE 5 EXPORT VALUE OF PLANT GROWTH REGULATORS, BY KEY COUNTRY, 2022 (USD THOUSAND)

TABLE 6 IMPORT VALUE OF PLANT GROWTH REGULATORS, BY KEY COUNTRY, 2022 (USD THOUSAND)

6.4 TECHNOLOGY ANALYSIS

6.4.1 KEY TECHNOLOGIES

6.4.1.1 Crystal form technology

6.4.1.2 Nanosensors

6.4.1.3 Nanoparticle technology

6.5 PRICING ANALYSIS

6.5.1 AVERAGE SELLING PRICE TREND OF KEY PLAYERS, BY TYPE

TABLE 7 AVERAGE SELLING PRICE (ASP) TREND OF KEY PLAYERS, BY TYPE, 2023 (USD/KG)

TABLE 8 AVERAGE SELLING PRICE (ASP) TREND, BY TYPE, 2019–2023 (USD/KG)

6.5.2 AVERAGE SELLING PRICE TREND, BY REGION

TABLE 9 AVERAGE SELLING PRICE (ASP) TREND, BY REGION, 2019–2023 (USD/KG)

6.6 ECOSYSTEM ANALYSIS/MARKET MAP

6.6.1 DEMAND SIDE

6.6.2 SUPPLY SIDE

FIGURE 29 PLANT GROWTH REGULATORS MARKET MAP

TABLE 10 PLANT GROWTH REGULATORS MARKET ECOSYSTEM

6.7 TRENDS/DISRUPTIONS IMPACTING CUSTOMERS' BUSINESSES

6.7.1 REVENUE SHIFT AND NEW REVENUE POCKETS IN PLANT GROWTH REGULATORS MARKET

FIGURE 30 REVENUE SHIFT IMPACTING PLANT GROWTH REGULATORS MARKET

6.8 PATENT ANALYSIS

FIGURE 31 PATENTS GRANTED FOR PLANT GROWTH REGULATORS, 2014–2024

FIGURE 32 REGIONAL ANALYSIS OF PATENTS GRANTED FOR PLANT GROWTH REGULATORS, 2014–2024

TABLE 11 KEY PATENTS PERTAINING TO PLANT GROWTH REGULATORS MARKET, 2014–2024

6.9 KEY CONFERENCES & EVENTS

TABLE 12 KEY CONFERENCES & EVENTS, 2024–2025

6.10 TARIFF & REGULATORY LANDSCAPE

6.10.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 13 NORTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 14 EUROPE: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 15 ASIA PACIFIC: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 16 SOUTH AMERICA: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 17 ROW: LIST OF REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

6.10.2 REGULATORY FRAMEWORK

6.10.2.1 North America

6.10.2.1.1 US

6.10.2.1.2 Mexico

6.10.2.1.3 Canada

6.10.2.2 Europe

6.10.2.2.1 Germany

6.10.2.2.2 UK

6.10.2.3 Asia Pacific

6.10.2.3.1 India

6.10.2.3.2 Japan

6.10.2.3.3 China

6.10.2.3.4 Australia

6.10.2.4 South America

6.10.2.4.1 Brazil

6.10.2.5 Africa

6.10.2.5.1 South Africa

6.10.2.6 Middle East

6.10.2.6.1 Egypt

6.10.2.6.2 UAE

6.11 PORTER'S FIVE FORCES ANALYSIS

TABLE 18 PLANT GROWTH REGULATORS MARKET: PORTER'S FIVE FORCES ANALYSIS

6.11.1 INTENSITY OF COMPETITIVE RIVALRY

6.11.2 BARGAINING POWER OF SUPPLIERS

6.11.3 BARGAINING POWER OF BUYERS

6.11.4 THREAT OF SUBSTITUTES

6.11.5 THREAT OF NEW ENTRANTS

6.12 KEY STAKEHOLDERS & BUYING CRITERIA

6.12.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 33 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR KEY FUNCTIONS

TABLE 19 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR KEY FUNCTIONS

6.12.2 BUYING CRITERIA

FIGURE 34 KEY CRITERIA FOR SELECTING SUPPLIERS/VENDORS

TABLE 20 KEY CRITERIA FOR SELECTING SUPPLIERS/VENDORS

6.13 CASE STUDY ANALYSIS

6.13.1 PROGIBB SG HELPED NUFARM IMPROVE PROFITABILITY AND STRENGTHEN ITS POSITION IN PLANT GROWTH REGULATORS MARKET

6.13.2 CORTEVA AGRISCIENCE HELPED WHEAT GROWERS IN US CONTROL LODGING IN WHEAT CROPS

7 PLANT GROWTH REGULATORS MARKET, BY TYPE

7.1 INTRODUCTION

FIGURE 35 CYTOKININS SEGMENT TO DOMINATE MARKET BY 2029

TABLE 21 PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 22 PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 23 PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (KT)

TABLE 24 PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (KT)

7.2 CYTOKININS

7.2.1 INCREASING APPLICATION OF CYTOKININS FOR ROOT DEVELOPMENT TO DRIVE MARKET

TABLE 25 CYTOKININS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 26 CYTOKININS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 27 CYTOKININS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (KT)

TABLE 28 CYTOKININS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (KT)

7.3 AUXINS

7.3.1 RISING ADOPTION OF SYNTHETIC AUXINS TO CONTROL WEEDS AND INCREASE CROP YIELD TO DRIVE MARKET

TABLE 29 AUXINS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 30 AUXINS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 31 AUXINS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (KT)

TABLE 32 AUXINS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (KT)

7.4 GIBBERELLINS

7.4.1 DEMAND FOR SEEDLESS FRUITS TO SPUR MARKET FOR GIBBERELLINS

TABLE 33 GIBBERELLINS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 34 GIBBERELLINS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 35 GIBBERELLINS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (KT)

TABLE 36 GIBBERELLINS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (KT)

7.5 ETHYLENE

7.5.1 ETHYLENE PLAYS VITAL ROLE IN INITIATING RIPENING PROCESS OF NUMEROUS FRUITS

TABLE 37 ETHYLENE: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 38 ETHYLENE: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 39 ETHYLENE: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (KT)

TABLE 40 ETHYLENE: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (KT)

7.6 OTHER TYPES

TABLE 41 OTHER TYPES: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 42 OTHER TYPES: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 43 OTHER TYPES: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (KT)

TABLE 44 OTHER TYPES: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (KT)

8 PLANT GROWTH REGULATORS MARKET, BY CROP TYPE

8.1 INTRODUCTION

FIGURE 36 CEREALS & GRAINS SEGMENT TO LEAD MARKET DURING FORECAST PERIOD

TABLE 45 PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2019–2023 (USD MILLION)

TABLE 46 PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2024–2029 (USD MILLION)

8.2 CEREALS & GRAINS

TABLE 47 CEREALS & GRAINS: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 48 CEREALS & GRAINS: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 49 CEREALS & GRAINS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 50 CEREALS & GRAINS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

8.2.1 CORN

8.2.1.1 Growing need to increase corn yield for human and animal consumption to boost growth

8.2.2 WHEAT

8.2.2.1 Adoption of plant growth regulators to enhance stress tolerance in plants to spur demand

8.2.3 RICE

8.2.3.1 Growth in hybrid rice production to drive need for high-quality plant growth promoters

8.2.4 OTHER CEREALS & GRAINS

8.3 OILSEEDS & PULSES

TABLE 51 OILSEEDS & PULSES: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 52 OILSEEDS & PULSES: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 53 OILSEEDS & PULSES: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 54 OILSEEDS & PULSES: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

8.3.1 COTTON

8.3.1.1 Need for effective management of cotton seeds to boost use of plant growth regulators

8.3.2 SOYBEAN

8.3.2.1 Industrial application of soybean in animal feed to increase demand for plant growth regulators

8.3.3 SUNFLOWER

8.3.3.1 Growing demand to improve vegetative and reproductive growth of sunflowers to drive demand for plant growth regulators

8.3.4 OTHER OILSEEDS & PULSES

8.4 FRUITS & VEGETABLES

TABLE 55 FRUITS & VEGETABLES: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 56 FRUITS & VEGETABLES: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 57 FRUITS & VEGETABLES: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 58 FRUITS & VEGETABLES: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

8.4.1 FRUITS

8.4.1.1 Role of plant growth regulators in promoting fruit plants' growth and development to drive market

8.4.2 VEGETABLES

8.4.2.1 Focus on increasing yield of vegetable crops to spur demand for plant growth regulators

8.5 TURF & ORNAMENTALS

8.5.1 PLANT GROWTH REGULATORS ENHANCE TURFGRASS QUALITY, IMPROVE STRESS TOLERANCE, PROMOTE ROBUST ROOT GROWTH, AND REDUCE NEED FOR FREQUENT MOWING

TABLE 59 TURF & ORNAMENTALS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 60 TURF & ORNAMENTALS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

9 PLANT GROWTH REGULATORS MARKET, BY FORMULATION

9.1 INTRODUCTION

FIGURE 37 WATER-DISPERSIBLE & WATER-SOLUBLE GRANULES SEGMENT TO ACCOUNT FOR LARGEST SHARE BY 2029

TABLE 61 PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2019–2023 (USD MILLION)

TABLE 62 PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2024–2029 (USD MILLION)

9.2 WATER-DISPERSIBLE & WATER-SOLUBLE GRANULES

9.2.1 WATER-DISPERSIBLE & WATER-SOLUBLE GRANULES ARE MORE STABLE DURING STORAGE AND TRANSPORTATION THAN AQUEOUS SUSPENSION CONCENTRATES

TABLE 63 WATER-DISPERSIBLE & WATER-SOLUBLE GRANULES: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 64 WATER-DISPERSIBLE & WATER-SOLUBLE GRANULES: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

9.3 WETTABLE POWDER

9.3.1 GOOD MISCIBILITY OF WETTABLE POWDER WITH WATER AND CONVENIENT APPLICATION USING CONVENTIONAL SPRAYING EQUIPMENT TO DRIVE MARKET

TABLE 65 WETTABLE POWDER: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 66 WETTABLE POWDER: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

9.4 SOLUTIONS

9.4.1 DEMAND FOR SOLUTIONS OFFERING EASE OF APPLICATION TO DRIVE NEED FOR PLANT GROWTH REGULATORS

TABLE 67 SOLUTIONS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 68 SOLUTIONS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

10 PLANT GROWTH REGULATORS MARKET, BY FUNCTION

10.1 INTRODUCTION

FIGURE 38 PLANT GROWTH PROMOTERS SEGMENT TO LEAD MARKET BY 2029

TABLE 69 PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2019–2023 (USD MILLION)

TABLE 70 PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2024–2029 (USD MILLION)

10.1.1 PLANT GROWTH PROMOTERS

10.1.1.1 Rapid increase in soil erosion due to global warming to drive popularity of plant growth promoters

TABLE 71 PLANT GROWTH PROMOTERS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 72 PLANT GROWTH PROMOTERS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

10.1.2 PLANT GROWTH INHIBITORS

10.1.2.1 Poor crop yield and quality due to abiotic stressors to drive adoption of plant growth inhibitors

TABLE 73 PLANT GROWTH INHIBITORS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 74 PLANT GROWTH INHIBITORS: PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

11 PLANT GROWTH REGULATORS MARKET, BY REGION

11.1 INTRODUCTION

FIGURE 39 INDIA TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 75 PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 76 PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 77 PLANT GROWTH REGULATORS MARKET, BY REGION, 2019–2023 (KT)

TABLE 78 PLANT GROWTH REGULATORS MARKET, BY REGION, 2024–2029 (KT)

11.2 NORTH AMERICA

TABLE 79 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY COUNTRY, 2019–2023 (USD MILLION)

TABLE 80 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 81 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 82 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 83 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (KT)

TABLE 84 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (KT)

TABLE 85 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2019–2023 (USD MILLION)

TABLE 86 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2024–2029 (USD MILLION)

TABLE 87 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2019–2023 (USD MILLION)

TABLE 88 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2024–2029 (USD MILLION)

TABLE 89 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2019–2023 (USD MILLION)

TABLE 90 NORTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2024–2029 (USD MILLION)

11.2.1 NORTH AMERICA: RECESSION IMPACT ANALYSIS

FIGURE 40 NORTH AMERICA: RECESSION IMPACT ANALYSIS SNAPSHOT, 2024

11.2.2 US

11.2.2.1 Expansion of organic food industry to propel market for plant growth regulators

TABLE 91 US: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 92 US: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.2.3 CANADA

11.2.3.1 Rising use of plant growth regulators in horticultural crops to boost market

TABLE 93 CANADA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 94 CANADA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.2.4 MEXICO

11.2.4.1 Increasing trade of agro-commodities to boost domestic sales of plant growth regulators

TABLE 95 MEXICO: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 96 MEXICO: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.3 EUROPE

FIGURE 41 EUROPE: PLANT GROWTH REGULATORS MARKET SNAPSHOT

TABLE 97 EUROPE: PLANT GROWTH REGULATORS MARKET, BY COUNTRY, 2019–2023 (USD MILLION)

TABLE 98 EUROPE: PLANT GROWTH REGULATORS MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 99 EUROPE: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 100 EUROPE: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 101 EUROPE: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (KT)

TABLE 102 EUROPE: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (KT)

TABLE 103 EUROPE: PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2019–2023 (USD MILLION)

TABLE 104 EUROPE: PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2024–2029 (USD MILLION)

TABLE 105 EUROPE: PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2019–2023 (USD MILLION)

TABLE 106 EUROPE: PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2024–2029 (USD MILLION)

TABLE 107 EUROPE: PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2019–2023 (USD MILLION)

TABLE 108 EUROPE: PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2024–2029 (USD MILLION)

11.3.1 EUROPE: RECESSION IMPACT ANALYSIS

FIGURE 42 EUROPE: RECESSION IMPACT ANALYSIS SNAPSHOT, 2024

11.3.2 GERMANY

11.3.2.1 Growth in production of high-value crops to drive demand for plant growth regulators

TABLE 109 GERMANY: PLANT GROWTH REGULATORS MARKET, BY TYPE,

2019–2023 (USD MILLION)

TABLE 110 GERMANY: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.3.3 UK

11.3.3.1 Investments in agriculture sector to drive market

TABLE 111 UK: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 112 UK: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.3.4 FRANCE

11.3.4.1 Increasing investment in sustainable agriculture by government to drive market

TABLE 113 FRANCE: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 114 FRANCE: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.3.5 POLAND

11.3.5.1 Rising domestic demand for agricultural produce to drive market

TABLE 115 POLAND: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 116 POLAND: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.3.6 SPAIN

11.3.6.1 Emphasis on prevention of soil desertification to spur adoption of plant growth regulators

TABLE 117 SPAIN: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 118 SPAIN: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.3.7 REST OF EUROPE

TABLE 119 REST OF EUROPE: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 120 REST OF EUROPE: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.4 ASIA PACIFIC

FIGURE 43 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET SNAPSHOT

TABLE 121 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY COUNTRY, 2019–2023 (USD MILLION)

TABLE 122 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY

COUNTRY, 2024–2029 (USD MILLION)

TABLE 123 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 124 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 125 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (KT)

TABLE 126 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (KT)

TABLE 127 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2019–2023 (USD MILLION)

TABLE 128 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2024–2029 (USD MILLION)

TABLE 129 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2019–2023 (USD MILLION)

TABLE 130 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2024–2029 (USD MILLION)

TABLE 131 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2019–2023 (USD MILLION)

TABLE 132 ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2024–2029 (USD MILLION)

11.4.1 ASIA PACIFIC: RECESSION IMPACT ANALYSIS

FIGURE 44 ASIA PACIFIC: RECESSION IMPACT ANALYSIS SNAPSHOT, 2024

11.4.2 CHINA

11.4.2.1 Increasing emphasis on eco-friendly biological protection to contribute to surge in use of plant growth regulators

TABLE 133 CHINA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 134 CHINA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.4.3 INDIA

11.4.3.1 Growing demand to improve crop productivity to propel growth

TABLE 135 INDIA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 136 INDIA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.4.4 JAPAN

11.4.4.1 Focus on residue-free agriculture practices to lead to increased use of biological control solutions

TABLE 137 JAPAN: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 138 JAPAN: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.4.5 AUSTRALIA & NEW ZEALAND

11.4.5.1 Rising government initiatives coupled with entrance of key players in regional agrochemical industry to drive demand

TABLE 139 AUSTRALIA & NEW ZEALAND: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 140 AUSTRALIA & NEW ZEALAND: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.4.6 REST OF ASIA PACIFIC

TABLE 141 REST OF ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 142 REST OF ASIA PACIFIC: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.5 SOUTH AMERICA

TABLE 143 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY COUNTRY, 2019–2023 (USD MILLION)

TABLE 144 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 145 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 146 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 147 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (KT)

TABLE 148 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (KT)

TABLE 149 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2019–2023 (USD MILLION)

TABLE 150 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2024–2029 (USD MILLION)

TABLE 151 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2019–2023 (USD MILLION)

TABLE 152 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2024–2029 (USD MILLION)

TABLE 153 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2019–2023 (USD MILLION)

TABLE 154 SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2024–2029 (USD MILLION)

11.5.1 SOUTH AMERICA: RECESSION IMPACT ANALYSIS

FIGURE 45 SOUTH AMERICA: RECESSION IMPACT ANALYSIS SNAPSHOT, 2024

11.5.2 BRAZIL

11.5.2.1 Emphasis on increasing crop efficiency to spur demand for plant growth regulators

TABLE 155 BRAZIL: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 156 BRAZIL: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.5.3 ARGENTINA

11.5.3.1 Export-oriented agricultural sector to drive adoption of plant growth regulators

TABLE 157 ARGENTINA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 158 ARGENTINA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.5.4 REST OF SOUTH AMERICA

TABLE 159 REST OF SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 160 REST OF SOUTH AMERICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.6 REST OF THE WORLD (ROW)

TABLE 161 ROW: PLANT GROWTH REGULATORS MARKET, BY COUNTRY, 2019–2023 (USD MILLION)

TABLE 162 ROW: PLANT GROWTH REGULATORS MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 163 ROW: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 164 ROW: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 165 ROW: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (KT)

TABLE 166 ROW: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (KT)

TABLE 167 ROW: PLANT GROWTH REGULATORS MARKET, BY CROP TYPE, 2019–2023 (USD MILLION)

TABLE 168 ROW: PLANT GROWTH REGULATORS MARKET, BY CROP TYPE,

2024–2029 (USD MILLION)

TABLE 169 ROW: PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2019–2023 (USD MILLION)

TABLE 170 ROW: PLANT GROWTH REGULATORS MARKET, BY FORMULATION, 2024–2029 (USD MILLION)

TABLE 171 ROW: PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2019–2023 (USD MILLION)

TABLE 172 ROW: PLANT GROWTH REGULATORS MARKET, BY FUNCTION, 2024–2029 (USD MILLION)

11.6.1 ROW: RECESSION IMPACT ANALYSIS

FIGURE 46 ROW: RECESSION IMPACT ANALYSIS SNAPSHOT, 2024

11.6.2 AFRICA

11.6.2.1 Emphasis on harnessing potential of plant growth-promoting rhizobacteria to drive demand

TABLE 173 AFRICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 174 AFRICA: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

11.6.3 MIDDLE EAST

11.6.3.1 Rising need to boost domestic production and crop yield to lead to increased demand for plant growth regulators

TABLE 175 MIDDLE EAST: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 176 MIDDLE EAST: PLANT GROWTH REGULATORS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12 COMPETITIVE LANDSCAPE

12.1 OVERVIEW

12.2 MARKET SHARE ANALYSIS, 2023

TABLE 177 PLANT GROWTH REGULATORS MARKET: DEGREE OF COMPETITION

12.3 KEY PLAYERS' STRATEGIES/RIGHT TO WIN

TABLE 178 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN PLANT GROWTH REGULATORS MARKET, 2020–2024

12.4 COMPANY VALUATION AND FINANCIAL METRICS

FIGURE 47 COMPANY VALUATION OF MAJOR PLAYERS

FIGURE 48 EV/EBITDA OF KEY COMPANIES

12.5 BRAND/PRODUCT ANALYSIS

FIGURE 49 BRAND/PRODUCT ANALYSIS, BY KEY BRAND OF PLANT GROWTH

REGULATORS

12.6 REVENUE ANALYSIS

FIGURE 50 REVENUE ANALYSIS OF KEY PLAYERS, 2021–2023 (USD BILLION)

12.7 KEY PLAYERS' EBIT/EBITDA

FIGURE 51 EBIT/EBITDA, 2023 (USD BILLION)

12.8 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

12.8.1 STARS

12.8.2 EMERGING LEADERS

12.8.3 PERVASIVE PLAYERS

12.8.4 PARTICIPANTS

FIGURE 52 PLANT GROWTH REGULATORS MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2023

12.8.5 COMPANY FOOTPRINT: KEY PLAYERS, 2023

FIGURE 53 COMPANY OVERALL FOOTPRINT

TABLE 179 COMPANY CROP TYPE FOOTPRINT

TABLE 180 COMPANY TYPE FOOTPRINT

TABLE 181 COMPANY FUNCTION FOOTPRINT

TABLE 182 COMPANY REGIONAL FOOTPRINT

12.9 COMPANY EVALUATION MATRIX: START-UPS/SMES, 2023

12.9.1 PROGRESSIVE COMPANIES

12.9.2 RESPONSIVE COMPANIES

12.9.3 DYNAMIC COMPANIES

12.9.4 STARTING BLOCKS

FIGURE 54 PLANT GROWTH REGULATORS MARKET: COMPANY EVALUATION MATRIX (START-UPS/SMES), 2023

12.9.5 COMPETITIVE BENCHMARKING: START-UPS/SMES, 2023

TABLE 183 PLANT GROWTH REGULATORS MARKET: LIST OF KEY START-UPS/SMES

TABLE 184 PLANT GROWTH REGULATORS MARKET: COMPETITIVE BENCHMARKING OF KEY START-UPS/SMES

12.10 COMPETITIVE SCENARIO AND TRENDS

12.10.1 PRODUCT LAUNCHES

TABLE 185 PLANT GROWTH REGULATORS MARKET: PRODUCT LAUNCHES, JANUARY 2020–MARCH 2023

12.10.2 DEALS

TABLE 186 PLANT GROWTH REGULATORS MARKET: DEALS, APRIL 2020–FEBRUARY 2024

12.10.3 EXPANSION

TABLE 187 PLANT GROWTH REGULATORS MARKET: EXPANSION, NOVEMBER

2020–OCTOBER 2022

13 COMPANY PROFILES

(Business overview, Products/Solutions/Services offered, Recent developments & MnM View)*

13.1 KEY COMPANIES

13.1.1 BASF SE

TABLE 188 BASF SE: BUSINESS OVERVIEW

FIGURE 55 BASF SE: COMPANY SNAPSHOT

TABLE 189 BASF SE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 190 BASF SE: PRODUCT LAUNCHES

TABLE 191 BASF SE: DEALS

TABLE 192 BASF SE: EXPANSION

13.1.2 CORTEVA.

TABLE 193 CORTEVA: BUSINESS OVERVIEW

FIGURE 56 CORTEVA.: COMPANY SNAPSHOT

TABLE 194 CORTEVA.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 195 CORTEVA.: DEALS

13.1.3 SYNGENTA GROUP

TABLE 196 SYNGENTA GROUP: BUSINESS OVERVIEW

FIGURE 57 SYNGENTA GROUP: COMPANY SNAPSHOT

TABLE 197 SYNGENTA GROUP: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 198 SYNGENTA GROUP: PRODUCT LAUNCHES

TABLE 199 SYNGENTA GROUP: DEALS

13.1.4 FMC CORPORATION

TABLE 200 FMC CORPORATION: COMPANY OVERVIEW

FIGURE 58 FMC CORPORATION: COMPANY SNAPSHOT

TABLE 201 FMC CORPORATION: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 202 FMC CORPORATION: DEALS

13.1.5 NUFARM

TABLE 203 NUFARM: BUSINESS OVERVIEW

FIGURE 59 NUFARM: COMPANY SNAPSHOT

TABLE 204 NUFARM: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 205 NUFARM: PRODUCT LAUNCHES

TABLE 206 NUFARM: EXPANSION

13.1.6 BAYER AG

TABLE 207 BAYER AG: BUSINESS OVERVIEW

FIGURE 60 BAYER AG: COMPANY SNAPSHOT

TABLE 208 BAYER AG: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 209 BAYER AG: DEALS

13.1.7 TATA CHEMICALS LTD.

TABLE 210 TATA CHEMICALS LTD.: BUSINESS OVERVIEW

FIGURE 61 TATA CHEMICALS LTD.: COMPANY SNAPSHOT

TABLE 211 TATA CHEMICALS LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.8 UPL

TABLE 212 UPL: BUSINESS OVERVIEW

FIGURE 62 UPL: COMPANY SNAPSHOT

TABLE 213 UPL: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 214 UPL: DEALS

13.1.9 SUMITOMO CHEMICAL CO., LTD.

TABLE 215 SUMITOMO CHEMICAL CO., LTD.: BUSINESS OVERVIEW

FIGURE 63 SUMITOMO CHEMICAL CO., LTD.: COMPANY SNAPSHOT

TABLE 216 SUMITOMO CHEMICAL CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 217 SUMITOMO CHEMICAL CO., LTD.: PRODUCT LAUNCHES

TABLE 218 SUMITOMO CHEMICAL CO., LTD.: DEALS

TABLE 219 SUMITOMO CHEMICAL CO., LTD.: EXPANSION

13.1.10 NIPPON SODA CO., LTD.

TABLE 220 NIPPON SODA CO., LTD.: BUSINESS OVERVIEW

FIGURE 64 NIPPON SODA CO., LTD.: COMPANY SNAPSHOT

TABLE 221 NIPPON SODA CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 222 NIPPON SODA CO., LTD.: DEALS

13.1.11 SIPCAM OXON SPA

TABLE 223 SIPCAM OXON SPA: BUSINESS OVERVIEW

TABLE 224 SIPCAM OXON SPA: PRODUCTS/SOLUTIONS/SERVICES OFFERED

TABLE 225 SIPCAM OXON SPA: DEALS

TABLE 226 SIPCAM OXON SPA: EXPANSION

13.1.12 DE SANGOSSE

TABLE 227 DE SANGOSSE: BUSINESS OVERVIEW

TABLE 228 DE SANGOSSE: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.13 DHANUKA AGRITECH LTD.

TABLE 229 DHANUKA AGRITECH LTD.: BUSINESS OVERVIEW

FIGURE 65 DHANUKA AGRITECH LTD.: COMPANY SNAPSHOT

TABLE 230 DHANUKA AGRITECH LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.14 SICHUAN GUOQUANG AGROCHEMICAL CO., LTD.
TABLE 231 SICHUAN GUOQUANG AGROCHEMICAL CO., LTD.: BUSINESS OVERVIEW

TABLE 232 SICHUAN GUOQUANG AGROCHEMICAL CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.1.15 ZAGRO

TABLE 233 ZAGRO: BUSINESS OVERVIEW

TABLE 234 ZAGRO: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.2 OTHER COMPANIES

13.2.1 CHEMICALS DIRECT

TABLE 235 CHEMICALS DIRECT: BUSINESS OVERVIEW

TABLE 236 CHEMICALS DIRECT: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.2.2 HANGZHOU TIANLONG BIOTECHNOLOGY CO., LTD.

TABLE 237 HANGZHOU TIANLONG BIOTECHNOLOGY CO., LTD.: BUSINESS OVERVIEW

TABLE 238 HANGZHOU TIANLONG BIOTECHNOLOGY CO., LTD.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.2.3 SIKKOINDIA

TABLE 239 SIKKOINDIA: BUSINESS OVERVIEW

FIGURE 66 SIKKOINDIA: COMPANY SNAPSHOT

TABLE 240 SIKKOINDIA: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.2.4 BARCLAY CHEMICALS

TABLE 241 BARCLAY CHEMICALS: BUSINESS OVERVIEW

TABLE 242 BARCLAY CHEMICALS: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.2.5 PBI-GORDON COMPANIES, INC.

TABLE 243 PBI-GORDON COMPANIES, INC.: BUSINESS OVERVIEW

TABLE 244 PBI-GORDON COMPANIES, INC.: PRODUCTS/SOLUTIONS/SERVICES OFFERED

13.2.6 CHAITANYA AGRO BIOTECH PVT. LTD.

13.2.7 ARISTO BIOTECH

13.2.8 REDOX INDUSTRIES LIMITED

13.2.9 WINFIELD UNITED

13.2.10 OMEX AGRICULTURE INC.

*Details on Business overview, Products/Solutions/Services offered, Recent developments & MnM View might not be captured in case of unlisted companies.

14 ADJACENT AND RELATED MARKETS

14.1 INTRODUCTION

TABLE 245 MARKETS ADJACENT TO PLANT GROWTH REGULATORS MARKETS**14.2 LIMITATIONS****14.3 BIOPESTICIDES MARKET****14.3.1 MARKET DEFINITION****14.3.2 MARKET OVERVIEW****14.3.3 BIOPESTICIDES MARKET, BY SOURCE****TABLE 246 BIOPESTICIDES MARKET, BY SOURCE, 2019–2022 (USD MILLION)****TABLE 247 BIOPESTICIDES MARKET, BY SOURCE, 2023–2028 (USD MILLION)****14.4 AGRICULTURAL BIOLOGICALS MARKET****14.4.1 MARKET DEFINITION****14.4.2 MARKET OVERVIEW****14.4.3 AGRICULTURAL BIOLOGICALS MARKET, BY FUNCTION****TABLE 248 AGRICULTURAL BIOLOGICALS MARKET, BY FUNCTION, 2018–2022 (USD MILLION)****TABLE 249 AGRICULTURAL BIOLOGICALS MARKET, BY FUNCTION, 2023–2028 (USD MILLION)****15 APPENDIX****15.1 DISCUSSION GUIDE****15.2 KNOWLEDGESTORE: MARKET SAND MARKETS' SUBSCRIPTION PORTAL****15.3 CUSTOMIZATION OPTIONS****15.4 RELATED REPORTS****15.5 AUTHOR DETAILS**

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