

Crop Protection Chemicals Market by Type (Herbicides, Insecticides, Fungicides & Bactericides), Origin (Synthetic & Biopesticides), Form, Mode of Application (Foliar, Seed Treatment, Soil Treatment), Crop Type and Region - Global Forecast to 2029

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Abstracts

The global market for crop protection chemicals is estimated at USD 79.3 billion in 2024 and is projected to reach USD 101.0 billion by 2029, at a CAGR of 5.0% during the forecast period. The growth of the crop protection chemicals market is driven by the imperative to increase agricultural productivity amidst a growing global population, mitigate the impacts of climate change on crop health, adopt advanced agricultural technologies, comply with regulatory standards, ensure economic viability in agriculture, meet consumer demands for quality and safety, and capitalize on market opportunities for innovative solutions. These factors collectively underscore the essential role of crop protection chemicals in modern agriculture and their ongoing significance in ensuring food security and sustainability.

“Heavy crop loss due to pest attacks”

Pest attacks by insects, fungi, weeds, and pathogens pose a significant threat to global crop production, causing substantial losses each year. According to the Food and Agriculture Organization (FAO), pests destroy an estimated 20% to 40% of global crop yields annually, resulting in billions of dollars in economic damage and jeopardizing food security, especially in regions heavily reliant on agriculture for livelihoods and sustenance. The Fall Armyworm (FAW) has emerged as a particularly destructive pest, wreaking havoc on maize crops across Africa, Asia, and the Americas. FAO reports indicate that FAW infestations can lead to yield losses ranging from 8% to 20% in maize production alone. In Africa, where maize is a staple crop, these losses can exacerbate

food shortages and cause severe economic setbacks for farmers.

To combat these threats, crop protection chemicals such as pesticides, fungicides, herbicides, and insecticides play a pivotal role in effectively managing pest and disease outbreaks. These chemicals are essential for preventing and controlling infestations, thereby minimizing crop losses and ensuring stable yields. Farmers apply these chemicals either preventively or curatively, depending on pest pressure and crop growth stages, to maintain crop health and productivity. In summary, the use of crop protection chemicals is indispensable in modern agriculture to mitigate the devastating impact of pests and diseases, safeguarding global food production and economic stability for farming communities worldwide.

“In 2023, foliar spray dominated the crop protection chemicals market within the mode of application segment. “

Foliar sprays are highly effective in directly targeting pests, diseases, and weeds that affect above-ground parts of plants. This mode of application allows crop protection chemicals to be applied directly onto leaves, stems, and other aerial parts where pests and pathogens typically reside. This targeted approach ensures efficient and rapid action against threats, minimizing damage and maximizing crop yields. Foliar sprays are versatile and can be used across a wide range of crops, including field crops, fruits, vegetables, and ornamentals. They offer flexibility in application timing and frequency, allowing farmers to adapt treatments based on crop growth stages, pest pressure levels, and environmental conditions. This adaptability enhances their utility in diverse agricultural settings and contributes to their widespread adoption. Foliar sprays are relatively easy to apply using standard spraying equipment, such as handheld sprayers, tractor-mounted sprayers, or aerial application systems. Farmers and agricultural professionals often prefer foliar sprays due to their convenience, effectiveness, and proven track record in crop protection. The availability of a wide range of foliar-applied products across herbicides, insecticides, fungicides, and growth regulators further supports their dominance in the market. Manufacturers continue to innovate and develop new formulations tailored for foliar application, addressing specific pest and disease challenges faced by growers.

“Within the form segment of crop protection chemicals market, liquid form is expected to dominate the market during the forecast period.”

Liquid formulations of crop protection chemicals are favored for their ease of application. They can be easily mixed with water and sprayed uniformly over large

areas using various spraying equipment, including ground sprayers and aerial application methods. This ease of application contributes to efficient coverage of crops, ensuring effective pest, disease, and weed control. Liquid formulations typically facilitate better crop penetration and absorption compared to solid formulations. This allows active ingredients to reach target pests or pathogens more effectively, leading to quicker action and improved control outcomes. Enhanced absorption also reduces the risk of run-off and environmental contamination, aligning with sustainable agricultural practices. Market preferences and farmer demand also drive the dominance of liquid formulations in the crop protection chemicals market. Farmers often prioritize products that are convenient to handle, store, and apply, which liquid formulations fulfill effectively. Additionally, the availability of a wide range of liquid formulations across herbicides, insecticides, fungicides, and other categories supports their widespread adoption in diverse agricultural settings.

“The crop protection chemicals market in North America is expected to grow at highest CAGR during the forecast period.”

North America is at the forefront of agricultural innovation, with widespread adoption of advanced technologies such as precision agriculture, biotechnology, and digital farming solutions. These technologies enhance the efficiency and effectiveness of crop protection practices, driving continuous demand for newer and more sophisticated crop protection chemicals. North America faces diverse climate conditions and pest pressures that necessitate robust crop protection strategies. Insect pests like the corn earworm and diseases such as soybean rust can significantly impact crop yields if not effectively managed. Crop protection chemicals offer reliable solutions to mitigate these risks, thereby maintaining agricultural productivity and farmer profitability. Investments in research and development (R&D) continue to drive innovation in crop protection chemicals tailored to North American crops and farming practices. Companies invest in developing products that address specific regional challenges, such as herbicide-resistant weeds or emerging pests, thereby sustaining market growth.

The Break-up of Primaries:

By Value Chain Side: Demand Side – 40% and Supply Side – 60%

By Designation: CXOs – 30%, Managers – 25%, 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), Bayer AG (Germany), FMC Corporation (US), Syngenta Group (Switzerland), Corteva (US), UPL (India), Nufarm (Australia), Sumitomo Chemical Co., Ltd (Japan), Albaugh LLC (US), Koppert (Netherlands), Gowan Company (US), American Vanguard Corporation (US), Kumiai Chemical Industry Co., Ltd (Japan), PI Industries (India), and Chr. Hansen A/S (Denmark).

Research Coverage:

The report segments the crop protection chemicals market based on mode of application, crop type, type, form, origin, 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 crop protection chemicals 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 crop protection chemicals market. Competitive analysis of upcoming startups in the crop protection chemicals 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 crop protection chemicals 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 (increasing need of food security for the rising population, advancement in farming practices and technologies, and heavy crop loss due to pest attacks), restraints (pesticide residue problems and stringent government regulations) opportunities (rapid growth in the biopesticides market, immense opportunities in developing countries, and integrated pest management (IPM)),

and challenges (evolution of biotechnology and increasing acceptance of GM crops and pest resistance).

Product Development/Innovation: Detailed insights on research & development activities and new product launches in the crop protection chemicals market.

Market Development: Comprehensive information about lucrative markets – the report analyses the crop protection chemicals market across varied regions.

Market Diversification: Exhaustive information about new products, untapped geographies, recent developments, and investments in the crop protection chemicals market.

Competitive Assessment: In-depth assessment of market shares, growth strategies, and product offerings of leading players like BASF SE (Germany), Bayer AG (Germany), FMC Corporation (US), Syngenta Group (Switzerland), Corteva (US), UPL (India), Nufarm (Australia), Sumitomo Chemical Co., Ltd (Japan), Albaugh LLC (US), Koppert (Netherlands), Gowan Company (US), American Vanguard Corporation (US), Kumiai Chemical Industry Co., Ltd (Japan), PI Industries (India), Chr. Hansen A/S (Denmark), Certis USA L.L.C (US), Sipcam Oxon Spa (Italy), Biobest Group NV (Belgium), Vestaron Corporation (US), BIONEMA (UK), Wynca Group (China), Lier Chemical Co., Ltd (China), HELM AG (Germany), Jiangsu Yangnong Chemical Co., Ltd (China), Nanjing Red Sun Co., Ltd (China).

Contents

1 INTRODUCTION

1.1 STUDY OBJECTIVES

1.2 MARKET DEFINITION

1.3 MARKET SCOPE

1.3.1 MARKET SEGMENTATION

FIGURE 1 CROP PROTECTION CHEMICALS MARKET SEGMENTATION

1.3.2 INCLUSIONS & EXCLUSIONS

TABLE 1 CROP PROTECTION CHEMICALS MARKET: INCLUSIONS & EXCLUSIONS

1.3.3 REGIONS COVERED

1.3.4 YEARS CONSIDERED

1.4 UNIT CONSIDERED

1.4.1 CURRENCY/VALUE UNIT

1.4.2 VOLUME UNIT

TABLE 2 USD EXCHANGE RATES CONSIDERED, 2019–2023

1.5 STAKEHOLDERS

1.6 SUMMARY OF CHANGES

1.6.1 IMPACT OF RECESSION

2 RESEARCH METHODOLOGY

2.1 RESEARCH DATA

FIGURE 2 CROP PROTECTION CHEMICALS 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

TABLE 3 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 3 CROP PROTECTION CHEMICALS MARKET: DEMAND-SIDE CALCULATION

2.2.2 TOP-DOWN APPROACH

2.2.2.1 Approach to estimate market size using top-down analysis

FIGURE 4 CROP PROTECTION CHEMICALS MARKET SIZE ESTIMATION STEPS

AND RESPECTIVE SOURCES: SUPPLY SIDE

FIGURE 5 SUPPLY-SIDE ANALYSIS: CROP PROTECTION CHEMICALS MARKET

2.3 DATA TRIANGULATION

FIGURE 6 DATA TRIANGULATION METHODOLOGY

2.4 RESEARCH ASSUMPTIONS

2.5 RESEARCH LIMITATIONS

2.6 RECESSION IMPACT ON CROP PROTECTION CHEMICALS MARKET

2.6.1 RECESSION MACRO INDICATORS

FIGURE 7 INDICATORS OF RECESSION

FIGURE 8 GLOBAL INFLATION RATE, 2011–2022

FIGURE 9 GLOBAL GDP, 2011–2022 (USD TRILLION)

FIGURE 10 RECESSION INDICATORS AND THEIR IMPACT ON CROP PROTECTION CHEMICALS MARKET

FIGURE 11 CROP PROTECTION CHEMICALS MARKET: EARLIER FORECAST VS. RECESSION FORECAST

3 EXECUTIVE SUMMARY

TABLE 4 CROP PROTECTION CHEMICALS MARKET SNAPSHOT, 2024 VS. 2029

FIGURE 12 CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024 VS. 2029 (USD MILLION)

FIGURE 13 CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2024 VS. 2029 (USD MILLION)

FIGURE 14 CROP PROTECTION CHEMICALS MARKET, BY FORM, 2024 VS. 2029 (USD MILLION)

FIGURE 15 CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION, 2024 VS. 2029 (USD MILLION)

FIGURE 16 CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE, 2024 VS. 2029 (USD MILLION)

FIGURE 17 NORTH AMERICA TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

4 PREMIUM INSIGHTS

4.1 ATTRACTIVE OPPORTUNITIES FOR PLAYERS IN CROP PROTECTION CHEMICALS MARKET

FIGURE 18 PEST & DISEASE PRESSURE, CLIMATE CHANGE CHALLENGES, AND REGULATORY SUPPORT & APPROVALS ARE KEY DRIVERS OF MARKET

4.2 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE &

COUNTRY

FIGURE 19 HERBICIDES SEGMENT AND BRAZIL TO ACCOUNT FOR LARGEST SHARES IN SOUTH AMERICAN CROP PROTECTION CHEMICALS MARKET IN 2024

4.3 CROP PROTECTION CHEMICALS MARKET: SHARE OF MAJOR REGIONAL SUBMARKETS

FIGURE 20 BRAZIL TO ACCOUNT FOR LARGEST SHARE (BY VALUE) IN 2024

4.4 CROP PROTECTION CHEMICALS MARKET, BY TYPE AND REGION

FIGURE 21 HERBICIDES SEGMENT TO OCCUPY LARGEST MARKET SHARE DURING FORECAST PERIOD

4.5 CROP PROTECTION CHEMICALS MARKET, BY FORM AND REGION

FIGURE 22 LIQUID SEGMENT TO DOMINATE MARKET DURING REVIEW PERIOD

4.6 CROP PROTECTION CHEMICALS MARKET, BY ORIGIN AND REGION

FIGURE 23 SYNTHETIC SEGMENT TO ACCOUNT FOR LARGER MARKET SHARE DURING FORECAST PERIOD

4.7 CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION AND REGION

FIGURE 24 FOLIAR SEGMENT TO OCCUPY LARGEST MARKET SHARE DURING FORECAST PERIOD

4.8 CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE AND REGION

FIGURE 25 CEREALS & GRAINS SEGMENT TO DOMINATE MARKET DURING FORECAST PERIOD

5 MARKET OVERVIEW

5.1 INTRODUCTION

5.2 MACROECONOMIC INDICATORS

5.2.1 INCREASE IN FOOD PRICES

5.2.2 DECREASE IN CROP LAND AREA

FIGURE 26 GLOBAL AGRICULTURAL LAND AREA (2027–2021)

5.3 MARKET DYNAMICS

FIGURE 27 MARKET DYNAMICS: CROP PROTECTION CHEMICALS MARKET

5.3.1 DRIVERS

5.3.1.1 Changes in precipitation, carbon dioxide levels, and warming temperatures

5.3.1.2 Advancements in farming practices and technology

5.3.1.3 Emergence of nanopesticides

5.3.1.4 Economic losses through pest attacks on crops

5.3.2 RESTRAINTS

5.3.2.1 Regulatory barriers

- 5.3.2.2 Health, environmental, and regulatory implications of pesticide residues
- 5.3.3 OPPORTUNITIES
 - 5.3.3.1 Invasive species
 - 5.3.3.2 Integrated Pest Management (IPM)
- 5.3.4 CHALLENGES
 - 5.3.4.1 Resistance management
 - 5.3.4.2 Excessive or inappropriate pesticide application threatening biodiversity

6 INDUSTRY TRENDS

6.1 INTRODUCTION

6.2 VALUE CHAIN ANALYSIS

FIGURE 28 CROP PROTECTION CHEMICALS MARKET: VALUE CHAIN ANALYSIS

6.2.1 RESEARCH & PRODUCT DEVELOPMENT

6.2.2 REGISTRATION

6.2.3 FORMULATION & MANUFACTURING

6.2.4 DISTRIBUTION

6.2.5 MARKETING & SALES

6.2.6 POST-SALE SERVICES

6.3 TRADE ANALYSIS

6.3.1 EXPORT SCENARIO OF HS CODE 3808

FIGURE 29 EXPORT VALUE OF HS CODE 3808 FOR KEY COUNTRIES, 2019–2023, (USD THOUSAND)

TABLE 5 EXPORT VALUE OF HS CODE 3808, BY KEY COUNTRY, 2019–2023 (USD THOUSAND)

6.3.2 IMPORT SCENARIO OF HS CODE 3808

FIGURE 30 IMPORT VALUE OF HS CODE 3808 FOR KEY COUNTRIES, 2019–2023, (USD THOUSAND)

TABLE 6 IMPORT VALUE OF HS CODE 3808, BY KEY COUNTRY, 2019–2022 (USD THOUSAND)

6.4 TECHNOLOGY ANALYSIS

6.4.1 KEY TECHNOLOGIES

6.4.1.1 NANOTECHNOLOGY

6.4.2 COMPLEMENTARY TECHNOLOGY

6.4.2.1 VARIABLE RATE TECHNOLOGY (VRT)

6.4.3 ADJACENT TECHNOLOGY

6.4.3.1 DRONE SPRAYING

6.5 PRICING ANALYSIS

6.5.1 AVERAGE SELLING PRICE TREND OF CROP PROTECTION CHEMICAL KEY

PLAYERS, BY TYPE

FIGURE 31 AVERAGE SELLING PRICE TREND OF CROP PROTECTION CHEMICAL KEY PLAYERS, BY TYPE, 2023

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

FIGURE 32 AVERAGE SELLING PRICE TREND, BY TYPE, 2019–2023

TABLE 8 AVERAGE SELLING PRICE (ASP) TREND OF CROP PROTECTION CHEMICALS, BY TYPE, 2019–2023 (USD MILLION/TON)

FIGURE 33 AVERAGE SELLING PRICE TREND, BY INSECTICIDES TYPE, 2019–2023

6.5.2 AVERAGE SELLING PRICE TREND OF INSECTICIDES, BY REGION

TABLE 9 INSECTICIDES: AVERAGE SELLING PRICE (ASP) TREND OF CROP PROTECTION CHEMICALS BY REGION, 2019–2023 (USD MILLION/TON)

FIGURE 34 AVERAGE SELLING PRICE TREND, BY HERBICIDES TYPE, 2019–2023

6.5.3 AVERAGE SELLING PRICE TREND OF HERBICIDES, BY REGION

TABLE 10 HERBICIDES: AVERAGE SELLING PRICE (ASP) TREND OF CROP PROTECTION CHEMICALS BY REGION, 2019–2023 (USD MILLION/TON)

FIGURE 35 AVERAGE SELLING PRICE TREND, BY FUNGICIDES & BACTERICIDES TYPE, 2019–2023

6.5.4 AVERAGE SELLING PRICE TREND OF FUNGICIDES & BACTERICIDES, BY REGION

TABLE 11 FUNGICIDES & BACTERICIDES: AVERAGE SELLING PRICE (ASP) TREND OF CROP PROTECTION CHEMICALS BY REGION, 2019–2023 (USD MILLION/TON)

FIGURE 36 AVERAGE SELLING PRICE TREND, BY OTHER TYPES, 2019–2023

6.5.5 AVERAGE SELLING PRICE TREND OF OTHER TYPES OF CROP PROTECTION CHEMICALS, BY REGION

TABLE 12 OTHER TYPES: AVERAGE SELLING PRICE (ASP) TREND OF CROP PROTECTION CHEMICALS BY REGION, 2019–2023 (USD MILLION/TON)

6.6 ECOSYSTEM ANALYSIS/MARKET MAP

6.6.1 DEMAND SIDE

6.6.2 SUPPLY SIDE

FIGURE 37 KEY STAKEHOLDERS IN CROP PROTECTION CHEMICALS MARKET ECOSYSTEM

TABLE 13 CROP PROTECTION CHEMICALS MARKET: ECOSYSTEM

6.7 TRENDS/DISRUPTIONS IMPACTING CUSTOMER BUSINESS

FIGURE 38 CROP PROTECTION CHEMICALS MARKET: TRENDS/DISRUPTING IMPACTING CUSTOMER BUSINESS

6.8 PATENT ANALYSIS

FIGURE 39 PATENTS GRANTED FOR CROP PROTECTION CHEMICALS MARKET, 2014–2024

FIGURE 40 REGIONAL ANALYSIS OF PATENTS GRANTED FOR CROP PROTECTION CHEMICALS MARKET, 2014–2024

TABLE 14 KEY PATENTS PERTAINING TO CROP PROTECTION CHEMICALS, 2014–2024

6.9 KEY CONFERENCES & EVENTS

TABLE 15 CROP PROTECTION CHEMICALS MARKET: DETAILED LIST OF CONFERENCES AND EVENTS, 2024–2025

6.10 REGULATORY LANDSCAPE

6.10.1 REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 16 NORTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 17 EUROPE: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 18 ASIA PACIFIC: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 19 SOUTH AMERICA: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

TABLE 20 MIDDLE EAST: REGULATORY BODIES, GOVERNMENT AGENCIES, AND OTHER ORGANIZATIONS

6.10.2 NORTH AMERICA

6.10.2.1 US

6.10.2.1.1 Product registration for pesticides in US

6.10.2.2 Canada

6.10.2.2.1 Pesticide regulations in Canada

6.10.3 EUROPE

6.10.3.1 Data requirements for plant protection products

6.10.3.2 UK

6.10.3.3 Germany

6.10.4 ASIA PACIFIC

6.10.4.1 China

6.10.4.2 Australia

6.10.4.2.1 Approval of active constituents for use in Australia

6.10.4.3 India

6.10.4.3.1 Data requirements for technical ingredients

6.10.5 SOUTH AMERICA

6.10.5.1 Brazil

6.10.5.2 Argentina

6.10.6 REST OF THE WORLD

6.10.6.1 South Africa

6.11 PORTER'S FIVE FORCES ANALYSIS

TABLE 21 PORTER'S FIVE FORCES IMPACT ON CROP PROTECTION

CHEMICALS MARKET

FIGURE 41 CROP PROTECTION CHEMICALS 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 AND BUYING CRITERIA

6.12.1 KEY STAKEHOLDERS IN BUYING PROCESS

FIGURE 42 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE MODES OF APPLICATION

TABLE 22 INFLUENCE OF STAKEHOLDERS ON BUYING PROCESS FOR TOP THREE MODES OF APPLICATION

6.12.2 BUYING CRITERIA

FIGURE 43 KEY BUYING CRITERIA FOR TOP THREE MODES OF APPLICATION

TABLE 23 KEY BUYING CRITERIA FOR TOP THREE MODES OF APPLICATION

6.13 CASE STUDY ANALYSIS

6.13.1 UPL LIMITED ANNOUNCED NEW BUSINESS UNIT, NATURAL PLANT PROTECTION (NPP), TO FOCUS ON BIOLOGICAL SOLUTIONS

6.13.2 PROMOTING INTEGRATED PEST MANAGEMENT (IPM) IN DPR KOREA

6.13.3 PRODUCT LAUNCH "CIMEGRA INSECTICIDE" FROM BASF SE IN AUSTRALIA FOR EFFECTIVE PEST CONTROL

6.14 INVESTMENT AND FUNDING SCENARIO

FIGURE 44 INVESTMENT & FUNDING SCENARIO OF MAJOR PLAYERS

7 CROP PROTECTION CHEMICALS MARKET, BY TYPE

7.1 INTRODUCTION

FIGURE 45 HERBICIDE TYPE TO DOMINATE CROP PROTECTION CHEMICALS MARKET DURING FORECAST PERIOD

TABLE 24 CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 25 CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD

MILLION)

TABLE 26 CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (KT)

TABLE 27 CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (KT)

7.2 HERBICIDES

7.2.1 CAPABILITY OF ELIMINATING DEEP-ROOTED WEEDS TO DRIVE DEMAND

TABLE 28 TOP HERBICIDES APPLIED TO CORN PLANTED ACRES, 2021 (CROP YEAR IN US)

TABLE 29 HERBICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 30 HERBICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 31 HERBICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (KT)

TABLE 32 HERBICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (KT)

7.3 INSECTICIDES

7.3.1 INCREASE IN CROP LOSSES DUE TO INSECT INFESTATION TO DRIVE SEGMENT

TABLE 33 INSECTICIDE TYPES AND THEIR MODES OF ACTION

TABLE 34 INSECTICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 35 INSECTICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 36 INSECTICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (KT)

TABLE 37 INSECTICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (KT)

7.4 FUNGICIDES & BACTERICIDES

7.4.1 INCREASED DEMAND FOR HIGH-VALUE CROPS TO FUEL MARKET

TABLE 38 FUNGICIDES & BACTERICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 39 FUNGICIDES & BACTERICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 40 FUNGICIDES & BACTERICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (KT)

TABLE 41 FUNGICIDES & BACTERICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (KT)

7.5 OTHER TYPES

TABLE 42 OTHER TYPES: CROP PROTECTION CHEMICALS MARKET, BY

REGION, 2019–2023 (USD MILLION)

TABLE 43 OTHER TYPES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 44 OTHER TYPES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (KT)

TABLE 45 OTHER TYPES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (KT)

8 CROP PROTECTION CHEMICALS MARKET, BY ORIGIN

8.1 INTRODUCTION

FIGURE 46 SYNTHETIC SEGMENT TO DOMINATE CROP PROTECTION CHEMICALS MARKET DURING FORECAST PERIOD

TABLE 46 CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2019–2023 (USD MILLION)

TABLE 47 CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2024–2029 (USD MILLION)

8.2 SYNTHETIC

8.2.1 STRICT REGULATIONS ON PRODUCTION AND USE TO IMPACT GROWTH

TABLE 48 SYNTHETIC: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 49 SYNTHETIC: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

8.3 BIOPESTICIDES

8.3.1 INCREASE IN SUSTAINABLE AGRICULTURAL PRACTICES TO DRIVE DEMAND

TABLE 50 BIOPESTICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 51 BIOPESTICIDES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

9 CROP PROTECTION CHEMICALS MARKET, BY FORM

9.1 INTRODUCTION

FIGURE 47 LIQUID SEGMENT TO DOMINATE CROP PROTECTION CHEMICALS MARKET DURING FORECAST PERIOD

TABLE 52 CROP PROTECTION CHEMICALS MARKET, BY FORM, 2019–2023 (USD MILLION)

TABLE 53 CROP PROTECTION CHEMICALS MARKET, BY FORM, 2024–2029 (USD MILLION)

MILLION)

9.2 LIQUID

9.2.1 LONGER SHELF-LIFE AND EASY HANDLING, TRANSPORTATION, AND APPLICATION TO DRIVE DEMAND

TABLE 54 COMMON LIQUID-PESTICIDE FORMULATIONS

TABLE 55 LIQUID: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 56 LIQUID: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

9.3 SOLID

9.3.1 LONG STORAGE STABILITY, GOOD MISCIBILITY WITH WATER, AND CONVENIENT APPLICATION TO DRIVE DEMAND

TABLE 57 SOLID: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 58 SOLID: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

10 CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION

10.1 INTRODUCTION

FIGURE 48 SEED TREATMENT TO GROW AT HIGHEST CAGR DURING FORECAST PERIOD

TABLE 59 CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION, 2019–2023 (USD MILLION)

TABLE 60 CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION, 2024–2029 (USD MILLION)

10.2 FOLIAR SPRAY

10.2.1 SUITABILITY FOR DESTROYING LARGE NUMBER OF UNWANTED GRASSES, HERBS, AND SHRUBS TO DRIVE DEMAND

TABLE 61 FOLIAR SPRAY: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 62 FOLIAR SPRAY: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

10.3 SOIL TREATMENT

10.3.1 RISING CONCERNS ABOUT FOOD SECURITY AND SHRINKING ARABLE LAND TO DRIVE DEMAND

TABLE 63 SOIL TREATMENT: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 64 SOIL TREATMENT: CROP PROTECTION CHEMICALS MARKET, BY

REGION, 2024–2029 (USD MILLION)

10.4 SEED TREATMENT

10.4.1 INCREASE IN IMMUNITY AND REDUCTION OF DELAYED GERMINATION TO DRIVE DEMAND

TABLE 65 SEED TREATMENT: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 66 SEED TREATMENT: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

10.5 OTHER MODES OF APPLICATION

TABLE 67 OTHER MODES OF APPLICATION: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 68 OTHER MODES OF APPLICATION: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

11 CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE

11.1 INTRODUCTION

FIGURE 49 CEREALS & GRAINS SEGMENT TO DOMINATE CROP PROTECTION CHEMICALS MARKET DURING FORECAST PERIOD

TABLE 69 CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE, 2019–2023 (USD MILLION)

TABLE 70 CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE, 2024–2029 (USD MILLION)

11.2 CEREALS & GRAINS

11.2.1 THREATS FROM INSECT PESTS TO DRIVE DEMAND

FIGURE 50 PESTICIDES APPLIED TO CORN PLANTED ACRES, 2021 CROP YEAR (% OF PLANTED ACRES)

TABLE 71 CEREALS & GRAINS: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 72 CEREALS & GRAINS: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

11.3 OILSEEDS & PULSES

11.3.1 GROWING IMPORTANCE OF CASH CROPS TO DRIVE DEMAND

TABLE 73 PULSE CROPS - INSECT THRESHOLD LEVELS

TABLE 74 OILSEEDS & PULSES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 75 OILSEEDS & PULSES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

11.4 FRUITS & VEGETABLES

11.4.1 RISE IN FRUITS & VEGETABLES PRODUCTION TO DRIVE DEMAND
TABLE 76 FRUITS & VEGETABLES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 77 FRUITS & VEGETABLES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

11.5 OTHER CROP TYPES

TABLE 78 OTHER CROP TYPES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 79 OTHER CROP TYPES: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

12 CROP PROTECTION CHEMICALS MARKET, BY REGION

12.1 INTRODUCTION

TABLE 80 CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 81 CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 82 CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (KT)

TABLE 83 CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (KT)

FIGURE 51 US TO BE FASTEST-GROWING CROP PROTECTION CHEMICALS MARKET DURING FORECAST PERIOD

12.2 NORTH AMERICA

FIGURE 52 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET SNAPSHOT

12.2.1 RECESSION IMPACT

FIGURE 53 NORTH AMERICA: RECESSION IMPACT ANALYSIS, 2024

TABLE 84 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY COUNTRY, 2019–2023 (USD MILLION)

TABLE 85 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 86 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2019–2023 (USD MILLION)

TABLE 87 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2024–2029 (USD MILLION)

TABLE 88 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY FORM, 2019–2023 (USD MILLION)

TABLE 89 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY FORM, 2024–2029 (USD MILLION)

TABLE 90 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION, 2019–2023 (USD MILLION)

TABLE 91 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION, 2024–2029 (USD MILLION)

TABLE 92 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE, 2019–2023 (USD MILLION)

TABLE 93 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE, 2024–2029 (USD MILLION)

TABLE 94 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 95 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 96 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (KT)

TABLE 97 NORTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (KT)

12.2.2 US

12.2.2.1 Well-established agricultural sector to drive market

TABLE 98 US: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 99 US: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.2.3 CANADA

12.2.3.1 Significant agricultural export market to drive demand for biopesticides

FIGURE 54 AVERAGE PERCENTAGE OF FIELD CROP AREAS RECEIVING DIFFERENT TYPES OF PESTICIDES IN MANITOBA IN 2021

TABLE 100 CANADA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 101 CANADA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.2.4 MEXICO

12.2.4.1 Government emphasis on wider application of crop protection chemicals to drive demand

FIGURE 55 MEXICAN CROP PRODUCTION (FIVE YEAR AVERAGE 2019–2023)

TABLE 102 MEXICO: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 103 MEXICO: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.3 EUROPE

12.3.1 RECESSION IMPACT

FIGURE 56 EUROPEAN CROP PROTECTION CHEMICALS MARKET: RECESSION IMPACT ANALYSIS, 2024

TABLE 104 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY COUNTRY, 2019–2023 (USD MILLION)

TABLE 105 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 106 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2019–2023 (USD MILLION)

TABLE 107 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2024–2029 (USD MILLION)

TABLE 108 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY FORM, 2019–2023 (USD MILLION)

TABLE 109 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY FORM, 2024–2029 (USD MILLION)

TABLE 110 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION, 2019–2023 (USD MILLION)

TABLE 111 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION, 2024–2029 (USD MILLION)

TABLE 112 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE, 2019–2023 (USD MILLION)

TABLE 113 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE, 2024–2029 (USD MILLION)

TABLE 114 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 115 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 116 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (KT)

TABLE 117 EUROPE: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (KT)

12.3.2 FRANCE

12.3.2.1 Shift toward biopesticides to drive market

TABLE 118 FRANCE: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 119 FRANCE: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.3.3 GERMANY

12.3.3.1 Investment by major players in production of sustainable crop protection

chemicals to drive market

TABLE 120 GERMANY: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 121 GERMANY: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.3.4 SPAIN

12.3.4.1 Partnership between organizations for biopesticides development to drive market

TABLE 122 SPAIN: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 123 SPAIN: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.3.5 ITALY

12.3.5.1 New product developments and product launches to fuel demand
TABLE 124 ITALY: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 125 ITALY: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.3.6 UK

12.3.6.1 Increase in high-quality agricultural produce to drive demand
TABLE 126 UK: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 127 UK: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.3.7 REST OF EUROPE

TABLE 128 REST OF EUROPE: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 129 REST OF EUROPE: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.4 ASIA PACIFIC

TABLE 130 KEY CROPS CULTIVATED, BY COUNTRY/REGION

FIGURE 57 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET SNAPSHOT

12.4.1 RECESSION IMPACT

FIGURE 58 ASIA PACIFIC: RECESSION IMPACT ANALYSIS, 2024

TABLE 131 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY COUNTRY, 2019–2023 (USD MILLION)

TABLE 132 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 133 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY ORIGIN,

2019–2023 (USD MILLION)

TABLE 134 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2024–2029 (USD MILLION)

TABLE 135 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY FORM, 2019–2023 (USD MILLION)

TABLE 136 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY FORM, 2024–2029 (USD MILLION)

TABLE 137 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION, 2019–2023 (USD MILLION)

TABLE 138 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION, 2024–2029 (USD MILLION)

TABLE 139 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE, 2019–2023 (USD MILLION)

TABLE 140 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE, 2024–2029 (USD MILLION)

TABLE 141 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 142 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 143 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (KT)

TABLE 144 ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (KT)

12.4.2 CHINA

12.4.2.1 High pesticide usage due to prevalence of small and fragmented farms to drive demand

TABLE 145 CHINA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 146 CHINA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.4.3 JAPAN

12.4.3.1 Increase in demand for palm oil to drive consumption of herbicides

TABLE 147 JAPAN: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 148 JAPAN: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.4.4 INDIA

12.4.4.1 Cost-effective production and qualified low-cost labor to drive market

FIGURE 59 PESTICIDE EXPORTS BY INDIA (2018–2022)

FIGURE 60 CONSUMPTION OF CHEMICAL PESTICIDES IN INDIA (2018–2022)

TABLE 149 INDIA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 150 INDIA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.4.5 AUSTRALIA

12.4.5.1 Innovative programs, techniques, and improved crop protection products initiated by chemical manufacturers to drive market

TABLE 151 AUSTRALIA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 152 AUSTRALIA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.4.6 REST OF ASIA PACIFIC

TABLE 153 REST OF ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 154 REST OF ASIA PACIFIC: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.5 SOUTH AMERICA

12.5.1 RECESSION IMPACT

FIGURE 61 SOUTH AMERICA: RECESSION IMPACT ANALYSIS, 2024

TABLE 155 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY COUNTRY, 2019–2023 (USD MILLION)

TABLE 156 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY COUNTRY, 2024–2029 (USD MILLION)

TABLE 157 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2019–2023 (USD MILLION)

TABLE 158 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2024–2029 (USD MILLION)

TABLE 159 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY FORM, 2019–2023 (USD MILLION)

TABLE 160 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY FORM, 2024–2029 (USD MILLION)

TABLE 161 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION, 2019–2023 (USD MILLION)

TABLE 162 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY MODE OF APPLICATION, 2024–2029 (USD MILLION)

TABLE 163 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE, 2019–2023 (USD MILLION)

TABLE 164 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY

CROP TYPE, 2024–2029 (USD MILLION)

TABLE 165 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 166 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

TABLE 167 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (KT)

TABLE 168 SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (KT)

12.5.2 BRAZIL

12.5.2.1 High usage and imports of pesticides to drive market

TABLE 169 BRAZIL: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 170 BRAZIL: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.5.3 ARGENTINA

12.5.3.1 Growing demand for regulation on crop protection chemicals to drive biopesticides market

TABLE 171 ARGENTINA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 172 ARGENTINA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.5.4 REST OF SOUTH AMERICA

TABLE 173 REST OF SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023 (USD MILLION)

TABLE 174 REST OF SOUTH AMERICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029 (USD MILLION)

12.6 ROW

12.6.1 RECESSION IMPACT

FIGURE 62 ROW: RECESSION IMPACT ANALYSIS, 2024

TABLE 175 ROW: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2019–2023 (USD MILLION)

TABLE 176 ROW: CROP PROTECTION CHEMICALS MARKET, BY REGION, 2024–2029 (USD MILLION)

TABLE 177 ROW: CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2019–2023 (USD MILLION)

TABLE 178 ROW: CROP PROTECTION CHEMICALS MARKET, BY ORIGIN, 2024–2029 (USD MILLION)

TABLE 179 ROW: CROP PROTECTION CHEMICALS MARKET, BY FORM,

2019–2023 (USD MILLION)

TABLE 180 ROW: CROP PROTECTION CHEMICALS MARKET, BY FORM,
2024–2029 (USD MILLION)

TABLE 181 ROW: CROP PROTECTION CHEMICALS MARKET, BY MODE OF
APPLICATION, 2019–2023 (USD MILLION)

TABLE 182 ROW: CROP PROTECTION CHEMICALS MARKET, BY MODE OF
APPLICATION, 2024–2029 (USD MILLION)

TABLE 183 ROW: CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE,
2019–2023 (USD MILLION)

TABLE 184 ROW: CROP PROTECTION CHEMICALS MARKET, BY CROP TYPE,
2024–2029 (USD MILLION)

TABLE 185 ROW: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023
(USD MILLION)

TABLE 186 ROW: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029
(USD MILLION)

TABLE 187 ROW: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2019–2023
(KT)

TABLE 188 ROW: CROP PROTECTION CHEMICALS MARKET, BY TYPE, 2024–2029
(KT)

12.6.2 AFRICA

12.6.2.1 Increase in food demand to drive crop protection chemicals market

TABLE 189 AFRICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE,
2019–2023 (USD MILLION)

TABLE 190 AFRICA: CROP PROTECTION CHEMICALS MARKET, BY TYPE,
2024–2029 (USD MILLION)

12.6.3 MIDDLE EAST

12.6.3.1 Use of modern irrigation equipment and need for agricultural productivity and
efficiency to fuel demand

TABLE 191 MIDDLE EAST: CROP PROTECTION CHEMICALS MARKET, BY TYPE,
2019–2023 (USD MILLION)

TABLE 192 MIDDLE EAST: CROP PROTECTION CHEMICALS MARKET, BY TYPE,
2024–2029 (USD MILLION)

13 COMPETITIVE LANDSCAPE

13.1 OVERVIEW

13.2 KEY PLAYER STRATEGIES/RIGHT TO WIN

TABLE 193 OVERVIEW OF STRATEGIES ADOPTED BY KEY PLAYERS IN CROP
PROTECTION CHEMICALS MARKET, 2020–2024

13.3 REVENUE ANALYSIS

FIGURE 63 ANNUAL REVENUE ANALYSIS OF KEY PLAYERS, 2019–2023 (USD BILLION)

13.4 MARKET SHARE ANALYSIS, 2023

FIGURE 64 CROP PROTECTION CHEMICALS MARKET SHARE, BY KEY COMPANY, 2023

TABLE 194 CROP PROTECTION CHEMICALS MARKET: DEGREE OF COMPETITION, 2020–2024

13.4.1 MARKET RANKING ANALYSIS

FIGURE 65 RANKING OF TOP FIVE PLAYERS IN CROP PROTECTION CHEMICALS MARKET, 2023

13.5 COMPANY EVALUATION MATRIX: KEY PLAYERS, 2023

13.5.1 STARS

13.5.2 EMERGING LEADERS

13.5.3 PERVASIVE PLAYERS

13.5.4 PARTICIPANTS

FIGURE 66 CROP PROTECTION CHEMICALS MARKET: COMPANY EVALUATION MATRIX (KEY PLAYERS), 2023

13.5.5 COMPANY FOOTPRINT: KEY PLAYERS, 2023

FIGURE 67 CROP PROTECTION CHEMICALS MARKET: COMPANY FOOTPRINT

13.5.5.1 Region footprint

TABLE 195 CROP PROTECTION CHEMICALS MARKET: REGION FOOTPRINT

13.5.5.2 Type footprint

TABLE 196 CROP PROTECTION CHEMICALS MARKET: TYPE FOOTPRINT

13.5.5.3 Origin footprint

TABLE 197 CROP PROTECTION CHEMICALS MARKET: ORIGIN FOOTPRINT

13.5.5.4 Form footprint

TABLE 198 CROP PROTECTION CHEMICALS MARKET: FORM FOOTPRINT

About

According to a new market research report entitled "Crop Protection Chemicals Market by Type (Herbicides, Fungicides, Insecticides and Others), by Crop Type (Cereals & grains, Oilseeds & Pulses, Fruits & Vegetables, and Others), by Geography - Global Trends and Forecast to 2019",

The Crop Protection Chemicals Market is projected to grow from \$50,718.46 Million in 2013 to \$69,614.33 Million by 2019, at a CAGR of 5.5% from 2014 to 2019. The global Crop Protection Chemicals Market was led by the Asia-Pacific region, followed by the North American market, in terms of value, in 2013.

The global crop protection chemicals market, segmented by type, includes herbicides, insecticides, fungicides, and others. The others segment includes acaricides, nematicides, rodenticides, disinfectants, fumigants, and mineral oils. Herbicides accounted for the largest share in the total crop protection chemicals market with 41% of the total market share in 2013.

The global crop protection chemicals market consists of four crop type categories, namely cereals & grains, oilseeds & pulses, fruits & vegetables, and other crops. Other crops include sugarcane, plantation crops, and turfs & ornamentals. Cereals & grains is the major market for crop protection chemicals which is dominated by North America. Fruits & vegetables is the second-largest market which is again dominated by the North American region.

The crop protection chemicals market was dominated by the Asia-Pacific market in 2013; however, the difference between Asia-Pacific and North American markets is very minute. China's market is estimated to have the greatest potential in the Asia-Pacific region and is projected to grow at a CAGR of 6.8% from 2014 to 2019. Japan is another promising market in the Asia-Pacific region, which had a dominant herbicides market in 2013.

The global market for crop protection is dominated by a few large multinational corporations, such as:

Syngenta (Switzerland)

BASF (Germany)

DuPont (U.S.)

Dow AgroSciences (U.S.)

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