

Closed-Loop Crop Protection Logistics Market to Reach USD \$5.34 Billion by 2029 at 10.2% CAGR

*The Business Research Company's
Closed-Loop Crop Protection Logistics
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2029 at 10.2% CAGR*

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What Is The Estimated Industry Size Of Closed-Loop Crop Protection Logistics Market?

In the past few years, the market size for closed-loop crop protection logistics has experienced accelerated growth. It's expected to rise from \$3.28 billion in 2024 to \$3.63 billion in 2025, growing at a compound annual growth rate (CAGR) of 10.5%. The historical growth of this market can be linked to factors such as growing regulatory focus on safe handling of chemicals, increased use of crop protection products, heightened farmer awareness about sustainable practices, a rising focus on environmental sustainability, and the use of digital tools for optimizing reverse logistics.

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Expected to grow to \$5.34 billion in 2029 at a compound annual growth rate (CAGR) of 10.2%”

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Expectations are high for the closed-loop crop protection logistics market. The market size is predicted to experience swift expansion, reaching a value of \$5.34 billion in 2029. This equates to a compound annual growth rate (CAGR) of 10.2%. Several factors are driving this anticipated growth. These include the rising demand for effective container return systems, an increasing need for standardized collection and recycling procedures across agricultural fields, greater investments into regional logistics and recycling centres, a surge in the use of digital reverse logistics platforms by agrochemical firms, and an enhanced focus on safely discarding agrochemical packaging. The forecast period also highlights several emerging trends such as AI-supported container tracking, IoT-based reverse logistics, cloud-integrated collection

management platforms, transparency in recycling records through blockchain, and the use of predictive analytics to improve the return of crop protection products.

Download a free sample of the closed-loop crop protection logistics market report:

<https://www.thebusinessresearchcompany.com/sample.aspx?id=28571&type=smp>

What Are The Major Factors Driving The Closed-Loop Crop Protection Logistics Global Market Growth?

The surge in adoption of crop protection products is anticipated to fuel the expansion of the closed-loop crop protection logistics market. The term "crop protection products" encompasses both chemical and biological agents such as pesticides, herbicides, and fungicides, which are utilized for safeguarding crops against pests. The uptake of these protection products is propelled by the escalating demand for higher agricultural yields, the necessity for crop-guarding against pests, diseases, and weeds, and an increasing cognizance among farmers about sustainable agriculture and enhancing crop quality. Closed-loop crop protection logistics amplify the efficacy of crop protection products by assuring safe gathering, transportation, cleansing, and recycling of containers, diminishing chemical waste, preserving environmental safety, augmenting resource efficiency, and bolstering sustainable farming practices. As an exemplification, CropLife International, a Belgium-based commercial institution, reported in February 2024 that research and development expenditure for biological crop protection products escalated by 64.7% to \$26.0 million in 2024, whereas spending on chemical crop protection products augmented by 84.1% to \$370.4 million in the same year. Consequently, the surge in adoption of crop protection products is propelling the closed-loop crop protection logistics market.

Who Are The Leading Companies In The Closed-Loop Crop Protection Logistics Market?

Major players in the Closed-Loop Crop Protection Logistics Global Market Report 2025 include:

- BASF SE
- Sumitomo Chemical
- Corteva Agriscience
- UPL Corporation Ltd.
- FMC Corporation
- Nufarm
- Helena Agri-Enterprises LLC
- Nissan Chemical Corporation
- Albaugh LLC
- Kumiai Chemical Industry Co. Ltd.

What Are The Main Trends, Positively Impacting The Growth Of Closed-Loop Crop Protection Logistics Market?

Main companies in the field of closed-loop crop protection logistics are increasingly leveraging technologies such as automated collection systems, digital monitoring, and eco-friendly recycling

methodologies to improve safety, productivity, and environmental compliance. These automated systems are state-of-the-art logistic mechanisms that promote safe, effective and consistent gathering of crop protection product containers from various points like farms, distributors, and collection centers, which reduces chemical waste and aids in maintaining sustainable farming practices. For example, in April 2025, Agro Varta was launched by the European Business Association (EBA) - an entity based in Ukraine that provides business advocacy - marking a significant step in digital hazardous waste management in crop protection. This platform lets farmers and agro-holdings request for used crop protection product containers collection, which is carried out by authorized waste management corporates. Agro Varta ensures safe accumulation, transport, storage, and recycling of containers, conforming to ecological, technical, legal, and safety guidelines, encouraging a circular economy and bolstering sustainability in the farming industry.

What Are The Primary Segments Covered In The Global Closed-Loop Crop Protection Logistics Market Report?

The closed-loop crop protection logistics market covered in this report is segmented as

- 1) By Service Type: Transportation, Warehousing, Reverse Logistics, Recycling, Other Service Types
- 2) By Crop Type: Cereals And Grains, Fruits And Vegetables, Oilseeds And Pulses, Other Crop Types
- 3) By Application: Pesticides, Herbicides, Fungicides, Other Applications
- 4) By End-User: Agricultural Producers, Agrochemical Companies, Distributors, Other End Users

Subsegments:

- 1) By Transportation: Road Transportation, Rail Transportation, Air Transportation, Maritime Transportation
- 2) By Warehousing: Dedicated Warehousing, Shared Warehousing, Cold Chain Warehousing, Hazardous Material Warehousing
- 3) By Reverse Logistics: Collection Services, Sorting Services, Refurbishment Services, Return Processing Services
- 4) By Recycling: Mechanical Recycling, Chemical Recycling, Energy Recovery Recycling, Composting And Biodegradation
- 5) By Other Service Types: Consulting Services, Training And Compliance Services, Inventory Management Services, Tracking And Monitoring Services

View the full closed-loop crop protection logistics market report:

<https://www.thebusinessresearchcompany.com/report/closed-loop-crop-protection-logistics-global-market-report>

Which Region Is Forecasted To Grow The Fastest In The Closed-Loop Crop Protection Logistics Industry?

In 2024, North America dominated the global market for closed-loop crop protection logistics,

and the projections for 2025 indicate that the Asia-Pacific region will experience the most rapid growth. The regions analyzed in the report on the closed-loop crop protection logistics market include Asia-Pacific, Western Europe, Eastern Europe, North America, South America, the Middle East, and Africa.

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