

North America Crop Protection Chemicals - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The North America Crop Protection Chemicals Market size is estimated at 24.51 billion USD in 2024, and is expected to reach 31.00 billion USD by 2029, growing at a CAGR of 4.81% during the forecast period (2024-2029).

There is a dominance of herbicides in the market

Agriculture plays a vital role in all the countries that encompass North America, as it contributes significantly to the country's GDP. The region's diverse climate and fertile land enable the cultivation of various crops, including wheat, corn, soybean, canola, and various fruits and vegetables. However, infestation of various diseases and insects on the crops has become a growing concern to the farmers. The adoption of various pest control practices has been considered an effective solution. North America occupied the second-highest share of 26.2% by value of the overall crop protection chemicals market in 2022.

Weed attacks on crops are the most common across the region. Catchweed bedstraw, field bindweed, and horsetail are some common weeds that are considered crop-devastating. With the growing demand for maize and wheat domestically as well as internationally, the management of weeds has become imperative. This, in turn, has increased the demand for herbicides, which occupied the highest share of 52.5% by value in 2022.

Pest infestation in oilseed and ornamental crops poses a major threat to agricultural

productivity in the region. The common insect species are the bean leaf beetle, grape colaspis, leafhopper, and aphid. The optimum solution is to apply neonicotinoid pesticides on seeds directly, and application of imidacloprid or thiamethoxam. The insecticide market occupied the second-highest share of 34.0% by value in 2022.

Increased concerns for food security and various developments have facilitated efficient methods of cultivation minimizing the impact of pests on their crops. This has driven the market, which is anticipated to register a CAGR of 4.8% during the forecast period (2023-2029).

The United States dominated the market due to the increased demand to protect crops from pests and diseases

North America is diverse in terms of agriculture, as a wide range of crops are cultivated across different countries. The region's diverse climate and fertile land enable the cultivation of crops such as wheat, corn, soybean, canola, and various fruits and vegetables. The region occupied the second-highest share of 24.6% by value of the overall crop protection chemicals market value in 2022.

The United States occupied the highest share of 82.4% by value in 2022. Agriculture in the United States is highly diverse, and a wide range of crops, such as wheat, maize, and soybean, are grown in the region. It is a major producer and exporter of wheat and corn. However, yield losses due to weeds and pests are a major threat to the production and the economic well-being of farmers in the country. In 2022, herbicides occupied the highest share of 53.3% in the country.

At the same time, Canada and Mexico occupied shares of 7.8% and 5.1% by value in 2022. Pulse production in Canada has grown rapidly in recent years, where farmers seed an average of 3.5 million hectares of pulses per year. Similarly, Canada's total oilseed production rose by approximately 6% from the previous year, mainly due to the increased plantation area of Canola and yield recovery in 2021. The high yields are attributed to proper pest management practices adopted in the country.

The market is anticipated to witness a CAGR of 4.8% during the forecast period 2023-2029, mainly due to increasing pest and disease infestation in major crop-producing countries of the region and the subsequent awareness of farmers about crop protection and better management practices for effective pest control.

North America Crop Protection Chemicals Market Trends

The need to increase the yield of the crops is majorly driving the usage of pesticides

In 2022, the average pesticide consumption per hectare of agricultural land in North America was recorded at 9.2 kg per hectare. Herbicides recorded the highest rate of application, with 5.7 kg per hectare in 2022. Conservation tillage practices like no-till and reduced-till farming have become increasingly popular in North America due to their positive impact on the environment and soil health. Between 2012 and 2017, the United States, Canada, and Mexico witnessed a 35% decline in farms practicing intensive tillage. However, this shift has led to a greater dependence on herbicides as a means of effectively controlling weeds.

The average per-hectare consumption of fungicides was 1.8 kg in 2022. From 2016 to 2019, the United States and Canada experienced an average economic loss of USD 138.13 per hectare due to decreased corn yields caused by fungal diseases. These substantial financial losses have driven farmers to use more chemical fungicides to safeguard their crops and mitigate the impact on their earnings. Consequently, the higher demand for fungicides to manage and control disease outbreaks has led to increased chemical inputs in agriculture.

The per-hectare consumption of insecticides was recorded at 1.5 kg in 2022. According to the data provided by the FAO Statistics, the yield of eggplant, which is one of the most grown crops in Mexico, decreased from 793.0 kg per hectare in 2019 to 785.0 kg per hectare in 2021, the years where the insecticide consumption was reduced. The aim to increase the yield of the crops is majorly driving the usage of insecticides in the region. Similarly, the usage of nematicides and molluscicides increases with the increasing infestation and yield losses in agricultural farms.

The prices of pesticides are expected to grow in the coming years owing to the increasing raw material prices and growing demand

In 2022, cypermethrin was valued at USD 21.1 thousand per metric ton. Its widespread utilization in agriculture owes to its proficiency in managing diverse insect varieties, such as aphids, beetles, spotted ball worms, pink ball worms, early spot borers, and hairy caterpillars. Its proven efficacy has elevated its popularity among farmers aiming

to protect their crops from pests and secure a fruitful yield.

Atrazine, a systemic herbicide classified under the chlorinated triazine group, is employed to specifically target and manage annual grasses and broadleaf weeds before they sprout. Herbicide formulations containing atrazine are approved for application on a range of crops, like corn, sweet corn, sorghum, sugarcane, wheat, macadamia nuts, and guava. In 2022, atrazine was recorded at USD 13.8 thousand per metric ton.

Malathion is an organophosphate insecticide used to control a wide variety of food and feed crops to control many types of insects, such as aphids, fleas, leafhoppers, Japanese beetles, and other insect pests on several crops. Five crops that are extensively grown in the United States that use malathion frequently are cherry tomato, broccoli, mulberry, cranberry, and fig. Malathion was valued at USD 12.6 thousand per metric ton in 2022.

Mancozeb is a broad-spectrum contact fungicide, which is labeled for application on numerous fruit, vegetable, and field crops within the United States. It protects against a wide spectrum of fungal diseases, including potato blight, leaf spot, scab, and rust. It fulfills the role of seed treatment for crops like potatoes, corn, sorghum, tomatoes, and cereal grains. Its market price for 2022 achieved a value of USD 7.8 thousand per metric ton.

North America Crop Protection Chemicals Industry Overview

The North America Crop Protection Chemicals Market is fairly consolidated, with the top five companies occupying 72.90%. The major players in this market are BASF SE, Bayer AG, Corteva Agriscience, FMC Corporation and Syngenta Group (sorted alphabetically).

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