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Asia Pacific Nematicide - Market Share Analysis, Industry Trends & Statistics, Growth Forecasts (2024 - 2029)

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Abstracts

The Asia Pacific Nematicide Market size is estimated at 580.49 million USD in 2024, and is expected to reach 699.80 million USD by 2029, growing at a CAGR of 3.81% during the forecast period (2024-2029).

Soil application of nematicides dominated the market owing to fewer risks of exposing non-target organisms

Nematodes that feed on plant parts are called plant parasitic nematodes (PPN). Nematicides are used to control these nematodes through various application methods like foliar application, chemigation, and soil treatment.

Compared to other application methods, such as foliar application, soil application of nematicides generally poses fewer risks of exposing non-target organisms, including beneficial insects and pollinators. This is because the nematicide remains primarily in the soil, where the target nematodes reside. Owing to this, soil application dominated the market with a share of 69.3% in 2022.

Foliar applications accounted for 12.8% of the Asia-Pacific nematicide market in 2022. The main purpose of the foliar application is to control the infestation of inflorescence and the infestation of leaves by nematodes such as the Anguina tritici (seed gall nematode), also known as seed gall disease-causing nematodes, which are present in cereals such as wheat. Foliar application is effective against nematodes due to the use of active ingredients like methyl bromide, Oxamyl, and parathion.

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Chemigation accounted for 8.0% of the Asia-Pacific nematicide market in 2022. China dominated the chemigation segment with a market share of 36.2%, valued at USD 16.4 million in 2022. The cereal cyst nematode, Heterodera avenae, is one of the major nematode pests in the Qinghai-Tibetan Plateau and Yellow River regions of China; it is reported to cause 10-90% yield losses in major crops like wheat.

Crop losses due to nematode infestation are increasing every year and are acting as a major concern for farmers, forcing them to use nematicides in order to protect the crops.

The need to protect the crops due to rising food demand is driving the growth of the market

Asia-Pacific, with its large agricultural industry and increasing demand for food, has witnessed a rise in the use of nematicides to protect crops from nematode infestations. In 2022, the region accounted for 19.8% of the global crop protection market by value.

The region has a substantial agricultural industry, with countries like China, India, Japan, and Australia being major contributors. Farmers are adopting measures to protect their crops from nematodes to meet the growing demand and ensure the quality of crops, thus driving the market's growth.

The market is expected to grow by USD 138.9 million during 2023-2029. Farmers are becoming more aware of the detrimental effects of nematodes on crop yields. Nematode infestations can lead to reduced productivity, stunted growth, and even crop failure. This awareness has prompted farmers to invest in nematicides to protect their crops.

The expansion of commercial farming, particularly in countries like Indonesia, Thailand, China, and India, has driven the demand for nematicides. Large-scale farming operations are more susceptible to nematode infestations due to the concentration of crops in a confined area. Therefore, commercial farmers often rely on nematicides to protect their crops and ensure higher yields.

The Asia-Pacific nematicide market is projected to register a CAGR of 3.8% by value during the forecast period (2023-2029) due to the increasing demand for agricultural products, rising awareness about nematode-related crop losses, and expansion of

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commercial farming. These trends are expected to continue as the region's agricultural industry further develops and addresses the challenges posed by nematode infestations.

Asia Pacific Nematicide Market Trends

Growing awareness among farmers about the importance of nematode control is increasing the application of nematicides

Japan is the largest consumer of nematicides per hectare, with an average consumption of 478.7 grams per hectare of agricultural land in 2022. However, Japan only accounted for 0.45% of the total agricultural land in the region, with just 2.9 million hectares in 2022. Intensive farming practices, such as greenhouse cultivation and monocropping, are prevalent in Japan. While these practices have their advantages in maximizing productivity, they also increase the vulnerability of crops to soil-borne pests like nematodes, leading the farmers in Japan to rely on nematicides to safeguard their crops.

Australia is the second-highest consumer of nematicides per hectare, with a consumption of 63.6 grams per hectare in 2022. This could be attributed to the huge hidden cost posed by plant parasitic nematodes to Australian producers and turf managers. It has been estimated that up to 19 million hectares of cultivated land and amenity turf are negatively impacted by parasitic nematodes in Australia, resulting in annual losses of USD 300 million.

Australia is closely followed by the Philippines and Vietnam, with nematicide consumptions of 46.3 and 41.1 grams per hectare, respectively, in 2022. Root-knot nematode is a major problem in the Philippines. It is known to cause losses between 20% and 85%, especially in vegetable crops like tomatoes, based on the cultivar and region grown.

China, Thailand, Myanmar, and India are other countries in the region that consume significant amounts of nematicides, owing to the increasing incidences of nematode infestation, which are often neglected by the farmers because of their hidden nature. However, the usage of nematicides is increasing with growing awareness among farmers and the need to protect the crops.

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Crop losses due to nematode infestation are increasing every year, influencing the prices of nematicides

Plant parasitic nematodes (PPNs) are among the most notorious and underrated threats to food security and plant health. For instance, in India, the annual crop losses due to major plant parasitic nematodes are estimated to be 19.6%, valued at INR 242.1 billion. In vegetable cultivation, plant parasitic nematodes are considered among the major pests. Fluensulfone, Abamectin, and Oxamyl are commonly used nematicides in Asia-Pacific.

Fluensulfone was valued at USD 19.0 thousand per metric ton in 2022. It can be used to suppress nematodes, including root-knot nematodes (Meloidogyne spp.), potato cyst nematodes, needle nematodes, lance nematodes, sting nematodes, stubby root nematodes (Trichodorus and Paratrichodorus spp.), and lesion nematodes.

Abamectin is known to have nematicidal activity against some plant parasitic nematodes, including the root lesion nematode (Pratylenchus penetrans), the reniform nematode (Rotylenchulus reniformis), the root-knot nematode (Meloidogyne incognita), and the cyst nematode (Heterodera schachtii). Abamectin was valued at USD 12.2 thousand per metric ton in 2022.

Oxamyl is a carbamate nematicide that is manufactured in liquid and granular forms. Oxamyl is the only nematicide with downward-moving systemic activity; thus, it has foliar nematicidal applications that help to reduce Pratylenchus nematodes. Oxamyl was valued at USD 8.7 thousand per metric ton in 2022.

Crop losses due to nematode infestation are increasing every year and are acting as a major concern for farmers, forcing them to use nematicides in order to protect the crops. This factor is expected to influence the prices of nematicides.

Asia Pacific Nematicide Industry Overview

The Asia Pacific Nematicide Market is fairly consolidated, with the top five companies occupying 83.43%. The major players in this market are ADAMA Agricultural Solutions Ltd, Bayer AG, Corteva Agriscience, Syngenta Group and UPL Limited (sorted alphabetically).

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