

# UAE Pesticide Market By Type (Herbicides, Insecticides, Fungicides, Others), By Crop Type (Oilseeds & Pulses, Grains & Cereals, Fruits & Vegetables, Others), By Region, Competition, Forecast and Opportunities, 2018-2028F

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## Abstracts

UAE Pesticide Market has valued at USD183.32 million in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 4.51% through 2028. The significant growth in crop production in the region is primarily attributed to several factors, including favorable climatic conditions, advanced farming techniques, and increased investment in agricultural infrastructure. As a result, the demand for herbicides, which are widely used to control invasive plant species, has also seen substantial growth, making it the largest segment in the market.

One of the key drivers behind the growth of the UAE pesticide market is the increasing consumer demand for high-quality agricultural products. With the region's agricultural sector expanding rapidly, there is a corresponding need for effective pest control measures to ensure optimal crop health and productivity. Pesticides play a crucial role in meeting this demand and contributing to food security in the UAE.

To safeguard public health and protect the environment, the UAE has implemented stringent regulations governing the import and use of pesticides. Pesticides can only be sourced from the producing company in the country of origin or from one of its original branches, ensuring that they meet the required registration standards. Furthermore, regular studies are conducted to evaluate pesticide residues in locally produced or imported fresh produce, ensuring compliance with safety guidelines. These robust regulations not only ensure the responsible and safe use of pesticides but also shape the dynamics of the UAE pesticide market.

In conclusion, the UAE pesticide market is a dynamic and growing sector, fueled by the increasing demands of the agricultural industry, strict regulatory measures, and promising future prospects. As the region continues to prioritize food security and sustainable agricultural practices, the significance and relevance of the pesticide market are poised to grow even further, creating new opportunities for innovation and growth.

## Key Market Drivers

### Growth in Crop Rotation and Diversification

Crop rotation, the practice of growing different types of crops in the same area in sequential seasons and crop diversification, the practice of growing multiple crop species in the same space are gaining traction in the UAE. These practices contribute to pest control, disease mitigation, and improved soil fertility, thereby enhancing overall agricultural productivity.

For instance, research has shown that longer crop rotations can enhance yields and profits while reducing pesticide use and pollution. By allowing different crops to be planted in a specific area over several seasons, the risk of pests and diseases building up in the soil is minimized. Additionally, crop diversification increases agricultural resilience to adverse growing conditions, such as extreme weather events or soil nutrient depletion. This diversification not only spreads the risk of crop failure but also promotes a more sustainable and balanced farming system.

The growth in crop rotation and diversification is driving the UAE pesticide market in several ways. Firstly, as farmers diversify their crops, they require a broader range of pesticides to deal with various pests and diseases associated with different crops. This increased demand is contributing to the expansion of the pesticide market, creating opportunities for pesticide manufacturers and suppliers.

Secondly, although these practices can reduce the overall quantity of pesticides used, they necessitate more targeted and specific pesticide application. As farmers switch from relying heavily on a single crop to cultivating a variety of crops, they need to adopt more precise and tailored pest management strategies. This trend is driving the demand for specialized pesticides that target specific pests and diseases, further stimulating market growth and innovation in pesticide formulations.

In conclusion, the growth in crop rotation and diversification is playing a key role in

driving the UAE pesticide market. As these sustainable farming practices become increasingly prevalent, the demand for various types of pesticides is set to rise, providing numerous opportunities for market expansion. This shift towards more diversified and resilient agricultural systems not only benefits farmers but also contributes to the overall sustainability and long-term viability of the UAE's agricultural sector.

### Advancements in Pesticide Technology

In recent years, the field of pesticides has witnessed significant technological advancements that have revolutionized the industry. These advancements encompass a wide range of areas, from the development of novel and highly effective active ingredients and formulation technologies to the integration of innovative application methods and cutting-edge digital tools for precision farming.

One notable example of these advancements is the utilization of nanotechnology in the development of nano-pesticides. These nano-pesticides leverage advanced delivery mechanisms, effectively reducing the number of pesticides required while simultaneously minimizing their environmental impact. By harnessing the power of nanotechnology, these next-generation pesticides offer unparalleled precision and efficiency in combating pests and diseases.

Moreover, the advent of precision agriculture technologies has further transformed the pesticide market. Technologies such as drones and GPS-guided sprayers enable farmers to precisely target and apply pesticides, resulting in enhanced efficacy and sustainability. This shift towards precision agriculture has spurred a growing demand for compatible pesticide products, as farmers recognize the synergistic benefits of integrating these technologies into their farming practices.

Furthermore, these technological advancements in pesticide technology have not only improved efficacy but also facilitated compliance with regulatory requirements. As the global focus on environmental sustainability and food safety intensifies, the development of eco-friendly and residue-free pesticides has become paramount. The ability to meet stringent regulatory standards while ensuring effective pest control has become a crucial aspect of the pesticide industry.

In summary, the continuous progress in pesticide technology has propelled the UAE pesticide market forward in multiple ways. It has led to the development of more potent and efficient pesticides, satisfying the increasing demand from farmers striving to

optimize crop yields and minimize losses. Additionally, the adoption of precision agriculture technologies has reshaped the market landscape, creating a growing need for compatible pesticide solutions. Lastly, the emphasis on environmental sustainability and food safety has driven the development of eco-friendly pesticides, ensuring compliance with regulatory requirements while safeguarding crop health.

## Key Market Challenges

### Rising Concerns Associated with Pesticide Residue

Pesticide residues are the traces of pesticides that remain on or in food after they are applied to food crops. The excessive use of pesticides can have significant negative impacts on both human health and the environment, making it a pressing public health issue. Despite their crucial role in controlling pests and diseases, pesticides have been linked to a wide range of health problems. These issues span from short-term impacts such as headaches and nausea to chronic impacts like cancer, reproductive harm, and endocrine disruption, posing long-term risks to individuals and communities.

Concerns about pesticide residues are exerting considerable influence on the UAE pesticide market in various ways. Firstly, there is a growing consumer demand for organic and residue-free produce, prompting a decline in the demand for conventional pesticides. This shift in consumer preference is compelling farmers to reevaluate their pest management strategies, potentially affecting the sales and usage of chemical pesticides.

Secondly, studies investigating the presence of pesticide residues in fresh vegetables and fruits imported into the UAE are revealing alarming results. The heightened scrutiny and awareness surrounding the potential health risks associated with pesticide residues are likely to lead to the implementation of stricter regulations and standards for pesticide use. These potential changes in regulations and standards add another layer of complexity to the pesticide market, posing further challenges for pesticide manufacturers and suppliers.

## Key Market Trends

### Growing Focus on Crop-Specific Pest Management

Crop-specific pest management is a comprehensive approach that involves tailoring pest control strategies to meet the specific needs of each crop. By taking into account

the unique characteristics and vulnerabilities of different crops, as well as the local environmental conditions, this approach can significantly enhance the effectiveness of pest control measures while reducing unnecessary pesticide use and minimizing environmental impact.

Moreover, the implementation of crop-specific pest management allows farmers to adhere to the increasingly stringent regulations concerning pesticide residues on food crops. By adopting this approach, farmers can ensure that their produce meets the highest quality and safety standards, thereby enhancing consumer confidence and satisfaction.

The growing emphasis on crop-specific pest management is exerting a notable influence on the pesticide market in the UAE. Firstly, it is driving the demand for a wider range of pesticides, as different crops require specific types of pest control products. This, in turn, is leading to an expansion of the product offerings available in the market, providing farmers with a broader selection to choose from.

Secondly, this trend is catalyzing research and development efforts within the industry. As farmers increasingly seek more effective and targeted solutions, pesticide manufacturers are investing in the development of new products and technologies that can meet these evolving needs. This fosters innovation and enables the industry to stay at the forefront of pest management practices.

Furthermore, the shift towards crop-specific pest management is promoting the adoption of integrated pest management (IPM) strategies. These strategies combine various pest control methods, including biological, cultural, and chemical approaches, to effectively manage pests while minimizing the impact on the environment. As a result, the pesticide market is diversifying, with an increasing range of IPM-compatible products being developed to cater to the diverse needs of farmers.

In conclusion, the implementation of crop-specific pest management not only optimizes pest control measures but also aligns with regulatory requirements, fosters innovation, and encourages the adoption of sustainable practices. As the agricultural industry continues to evolve, crop-specific pest management will play a pivotal role in ensuring the productivity, sustainability, and safety of crop production systems.

## Segmental Insights

## Type Insights

Based on the category of type, the insecticides segment emerged as the dominant player in the UAE market for pesticide in 2022. The most apparent driver behind the increasing need for pest control in the region is the unfavorable combination of the UAE's hot and humid climate, which creates a perfect breeding ground for numerous pests. These pests, particularly destructive insects, pose a significant threat to crop production in the region. Therefore, there is a high demand for effective pest management solutions, which are predominantly provided by insecticides.

Another key factor contributing growing to population and the and the subsequent rise the subsequent rise in food demand. As farmers dominance of insecticides in the UAE pesticide market is the country food demand. As farmers strive to meet this increasing's rapidly growing population and the subsequent rise in food demand. As farmers strive to meet this increasing demand, maximizing crop yields becomes crucial. One effective way to achieve this is through efficient pest control. Consequently, there is an elevated reliance on insecticides to combat pests and protect crop yields.

Furthermore, the expansion of local markets is playing a pivotal role in driving the growth of the insecticide market in the UAE. With the country's economy experiencing robust growth, there has been a significant increase in investments in agriculture. This, in turn, has led to the expansion of farming activities and a subsequent rise in the use of insecticides to ensure optimal crop production and protection against pests.

### Crop Type Insights

The grains & cereals segment is projected to experience rapid growth during the forecast period. Firstly, the high demand for grains and cereals among consumers is a primary driver of the pesticide market. As staple food items, grains and cereals are consumed in large quantities, leading to an increased need for their production. To ensure high yield and quality of these crops, farmers resort to the use of pesticides, thereby driving the market. This demand is fueled by various factors such as population growth, changing dietary preferences, and the need to meet food security requirements.

The rise in crop production also contributes to the dominance of grains and cereals in the UAE pesticide market. With the growing population and the consequent increase in food demand, farmers are striving to maximize crop yields. Efficient pest management through the use of pesticides plays a critical role in achieving this goal. Additionally, the UAE's favorable climate and fertile soil make it suitable for cultivating a wide variety of grains and cereals, further driving their prominence in the pesticide market.

Another significant factor is the high demand for testing of pathogens and mycotoxins in cereals. These harmful substances can significantly affect the quality and safety of grains and cereals, posing risks to human health. Pesticides help control the spread of these substances, ensuring the safety and quality of the crops. Moreover, stringent regulations and quality standards in the UAE necessitate rigorous testing and monitoring of cereals, leading to an increased demand for pesticide usage.

In conclusion, the demand for grains and cereals, the need to maximize crop yields, and the importance of ensuring food safety all contribute to the growing pesticide market in the UAE. With the continuous advancements in agricultural practices and the development of innovative pesticide solutions, the market is poised for further growth and evolution in the coming years.

### Regional Insights

Dubai emerged as the dominant player in the UAE Pesticide Market in 2022, holding the largest market share in terms of value. Dubai's strategic location, situated at the crossroads of major trade routes, coupled with its robust infrastructure, including state-of-the-art ports, positions it as an ideal global hub for the import and export of agricultural products, including pesticides. These ports, equipped with advanced facilities, play a crucial role in the seamless import of fresh fruits, ensuring that they undergo stringent pesticide residue testing to meet the highest quality standards.

The remarkable growth of Dubai's agricultural sector further fuels the demand for pesticides. With a significant increase in cereal exports and the implementation of several innovative farming projects, the need for effective pest management solutions has escalated. Dubai's commitment to sustainable agriculture is also a key driver in its dominance in the UAE pesticide market. The government actively encourages the use of environmentally friendly pesticides and promotes integrated pest management strategies, fostering a thriving pesticide market that aligns with global sustainability goals.

### Key Market Players

Emirates Rawabi Est.

Anglo Gulf Limited

BASF UAE

AGRI Ventures FZE

Syngenta UAE

Report Scope:

In this report, the UAE Pesticide Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

UAE Pesticide Market, By Type:

Herbicides

Insecticides

Fungicides

Others

UAE Pesticide Market, By Crop Type:

Oilseeds & Pulses

Grains & Cereals

Fruits & Vegetables

Others

UAE Pesticide Market, By Region:

Dubai

Abu Dhabi

Sharjah



Rest of UAE

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the UAE Pesticide Market.

Available Customizations:

UAE Pesticide Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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