

**UAE Fertilizer Market By Crop Type (Grains & Cereals, Pulses & Oilseeds, Commercial Crops, Fruits & Vegetables, Others), By Mode of Application (Foliar Spraying, Fertigation, Sowing, Drip Method, Others), By Region, Competition, Forecast and Opportunities, 2020-2030F**

Market Report | 2025-03-24 | 83 pages | TechSci Research

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**Report description:**

UAE Fertilizer Market was valued at USD 457.25 million in 2024 and is expected to reach USD 610.21 million by 2030 with a CAGR of 4.93% during the forecast period. The United Arab Emirates (UAE) fertilizer market is currently experiencing a remarkable surge in growth and transformation. This can be attributed to the UAE's relentless efforts to diversify its economy and elevate its agricultural sector to new heights. Throughout 2022, the UAE fertilizer market witnessed an unprecedented surge, surpassing the previous year's performance by a significant margin. This upward trajectory is expected to continue, driven by the country's strategic initiatives aimed at bolstering agricultural productivity and ensuring food security for its population.

**Key Market Drivers**

**Growth in Desert Farming**

The United Arab Emirates (UAE) is experiencing a remarkable shift in its agricultural practices, driven by the rapid growth and advancements in desert farming techniques. This innovative approach to agriculture has revolutionized the farming landscape in the UAE, enabling the transformation of vast arid lands into highly productive farmlands.

With only 0.7% of arable land available, the UAE has recognized the need to become a pioneer in climate-smart agriculture. This initiative is part of the country's broader strategy to ensure food security and reduce dependence on food imports. As a result, the demand for fertilizers, which play a crucial role in promoting crop growth and maintaining soil fertility, has witnessed a significant surge.

Furthermore, collaborative projects between UAE scientists and international experts are underway to explore and expand the potential of desert farming. One such ambitious project aims to convert the deserts of Sharjah into rice paddies, an endeavor that may seem unlikely but showcases the immense possibilities of desert farming when combined with scientific innovation and

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adequate resources.

#### Key Market Challenges

##### Variability in Soil Quality

The United Arab Emirates (UAE) is currently witnessing a remarkable surge in its fertilizer market, driven by innovative approaches and an increasing focus on enhancing agricultural productivity. However, the region faces significant challenges due to the variability in soil quality, which poses obstacles to the growth of this burgeoning market.

The arid hot desert climate of the UAE is characterized by limited water availability, high temperatures, and salt stresses, all of which severely constrain agricultural productivity. Furthermore, the soils in key agricultural areas like Liwa are affected by heavy metal contamination, exacerbating the challenges faced by farmers.

The seasonal variability of soil quality indicators, such as NO<sub>3</sub>-N, K, and P, further complicates the situation. Fluctuations in nutrient content can have a direct impact on the effectiveness of fertilizers and, consequently, crop yield.

Another critical issue is the variation in soil properties observed across different land use types. These variations can be attributed to the combined effects of biophysical and socio-economic factors, further complicating the development of a universal solution in terms of fertilizer composition and usage.

Furthermore, the viability of carbon farming, which is viewed as a value-add for farmers, is constrained by various factors, including the upfront costs associated with soil sampling and project implementation. The ability to enhance soil fertility and supply essential nutrients to plants through greater soil biodiversity is hindered by the volatility observed in international fertilizer markets.

Given this complex landscape, it is crucial to explore innovative strategies and sustainable approaches to address the challenges faced by the UAE's fertilizer market. By focusing on tailored solutions, research, and collaboration, it is possible to overcome these obstacles and unlock the full potential of the agricultural sector in the UAE.

#### Key Market Trends

##### Growing Demand of Organic and Bio-Based Fertilizers

The United Arab Emirates (UAE) fertilizer market is currently experiencing a notable shift towards the adoption of organic and bio-based fertilizers. This shift can be attributed to several factors, including the increasing demand for food grain production, the growing emphasis on organic farming practices, and the abundant availability of raw materials for fertilizer production.

Organic fertilizers play a crucial role in enhancing soil quality by replenishing its nutrient content and improving its overall structure. By enriching the soil, organic fertilizers contribute to better plant growth and development, leading to higher crop yields. Additionally, these fertilizers have the advantage of reducing the environmental impact of farming activities by minimizing the reliance on synthetic inputs.

Beyond the realm of organic fertilizers, bio-based or 'eco' fertilizers are emerging as a prominent trend in the UAE fertilizer market. These fertilizers, derived from renewable resources, offer an environmentally friendly alternative to conventional fertilizers. They not only provide essential nutrients to plants but also enhance soil fertility and promote sustainable agricultural practices. The global bio-based fertilizer market is witnessing a surge in demand, driven by the increasing consumer preference for organic food and sustainable farming methods.

As the UAE continues to prioritize and promote sustainable farming practices, the demand for organic and bio-based fertilizers is expected to witness substantial growth. This growing trend is set to contribute to the overall development and diversification of the UAE's agricultural sector. By embracing these eco-friendly fertilizers, the country aims to achieve long-term agricultural sustainability, ensuring food security and environmental preservation.

In conclusion, the increasing demand for organic and bio-based fertilizers stands as a significant and transformative trend in the UAE fertilizer market. With the UAE's commitment to sustainable and eco-friendly farming practices, this trend is anticipated to gain further momentum, bringing about positive changes to the agricultural landscape of the country.

#### Key Market Players

- [ ] MAPCO Fertilizer Industries FZE
- [ ] RNZ International FZE
- [ ] AI Yamama Fertilizer Industries LLC
- [ ] AI Yahar Organic Fertilizers Factory

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-□National Industrial Co. LLC

#### Report Scope:

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

-□UAE Fertilizer Market, By Crop Type:

- o Grains & Cereals
- o Pulses & Oilseeds
- o Commercial Crops
- o Fruits & Vegetables
- o Others

-□UAE Fertilizer Market, By Mode of Application:

- o Foliar Spraying
- o Fertigation
- o Sowing
- o Drip Method
- o Others

-□UAE Fertilizer Market, By Region:

- o Dubai
- o Abu Dhabi
- o Sharjah
- o Rest of UAE

#### Competitive Landscape

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

#### Available Customizations:

UAE Fertilizer Market report with the given market data, TechSci 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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