

North America Fertilizers Market Segmented By Origin (Organic, Synthetic, Bio-fertilizer), By Mode of Application (Foliar Spraying, Fertigation, Sowing, Broadcasting, Spraying, Drip Method, Others), By Form (Solid, Liquid), By Crop Type (Grains & Cereals, Pulses & Oilseeds, Commercial Crops, Fruits & Vegetables, Other), By Source (Domestic, Import) Region and Competition, Opportunity, and Forecast, 2018-2028

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Abstracts

North America Fertilizers Market has valued at USD 16.85 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 5.47% through 2028. The North America fertilizers market is a dynamic and essential component of the region's agriculture industry. Spanning the vast expanse of the United States and Canada, this market plays a pivotal role in ensuring food security and sustainable agricultural practices across North America. Fertilizers, which consist of various nutrients like nitrogen, phosphorus, and potassium, are vital for enhancing crop yields and soil fertility. In recent years, the North America fertilizers market has witnessed significant developments driven by factors such as technological advancements, changing agricultural practices, and environmental concerns.

Farmers and agriculturalists are increasingly adopting organic and slow-release fertilizers to reduce the environmental impact of their practices. This shift aligns with the growing awareness of the need for responsible and eco-friendly agriculture. Another key aspect of the North America fertilizers market is the adoption of precision agriculture techniques. Advancements in technology, such as GPS-guided tractors and remote

sensing, have enabled farmers to apply fertilizers more efficiently and precisely. This not only reduces wastage but also optimizes nutrient utilization, contributing to higher crop yields and cost savings.

Moreover, regulatory initiatives and government policies play a crucial role in shaping the North America fertilizers market. Regulations on nutrient management and water quality have prompted the development of innovative fertilizer formulations that minimize nutrient runoff and mitigate environmental pollution.

The North America fertilizers market is also influenced by global market dynamics, such as fluctuations in commodity prices and trade policies. The region imports and exports fertilizers, making it sensitive to changes in international markets.

Key Market Drivers

Rising Global Population and Food Demand

The North America fertilizers market is experiencing a considerable boost due to the ever-increasing global population and the surging demand for food. As the world's population continues to grow at an unprecedented rate, the need to produce more food to feed this expanding demographic becomes more critical. North America, with its vast agricultural landscapes, plays a pivotal role in meeting this demand. Fertilizers have emerged as an indispensable tool in the hands of North American farmers, enabling them to significantly enhance crop yields and agricultural productivity.

With the pressure to ensure food security for not only the local population but also to contribute to the global food supply chain, the reliance on fertilizers has never been greater. These essential nutrients, such as nitrogen, phosphorus, and potassium, provide the vital components needed for plant growth, enabling crops to reach their maximum potential. Fertilizers, in conjunction with modern farming practices and advanced agricultural technologies, allow North American farmers to optimize their yield per acre, ensuring a stable and abundant food supply.

The growing global population, coupled with an increasingly urbanized world, intensifies the demand for North American agricultural products, ranging from staple crops like corn, wheat, and soybeans to specialty crops like fruits and vegetables. To meet this escalating demand, North American farmers rely on fertilizers not only to increase yield but also to improve the quality of their produce. Moreover, fertilizers help shorten the growth cycle of certain crops, making it possible to cultivate multiple harvests in a year,

further contributing to food production.

Technological Advancements in Agriculture

Technological advancements in agriculture have become a driving force behind the growth of the North America fertilizers market. These innovations have revolutionized farming practices, making them more efficient, precise, and sustainable. North American farmers are increasingly adopting cutting-edge technologies that rely heavily on fertilizers to maximize crop yields and minimize resource wastage.

GPS-guided tractors, drones, and sensor technology enable farmers to precisely target fertilizer application, optimizing the distribution of nutrients across fields. This precision not only increases crop yields but also reduces the overuse of fertilizers, which can lead to nutrient runoff and environmental pollution. By utilizing technology, North American farmers can ensure that every application of fertilizer is tailored to the specific needs of their crops and the unique characteristics of their soil, resulting in improved efficiency and resource management.

Remote sensing technology is another key driver. By monitoring crop health and nutrient levels from above, farmers can make real-time adjustments to their fertilizer applications. This data-driven approach allows for early detection of nutrient deficiencies or excesses, enabling timely interventions to maintain crop health and productivity. It also minimizes the risk of over-fertilization, which can negatively impact the environment.

Furthermore, data analytics and farm management software are becoming essential tools for farmers. These platforms collect and analyze data on soil conditions, weather patterns, crop growth, and fertilizer usage, providing valuable insights for decision-making. By leveraging data-driven solutions, farmers can fine-tune their fertilizer strategies, reduce waste, and enhance overall farm profitability.

Biotechnology and genetically modified (GM) crops have also played a role in boosting the North America fertilizers market. Some GM crops are engineered to be more efficient in nutrient uptake, reducing the need for excessive fertilization. These crops not only improve resource efficiency but also contribute to higher yields.

Environmental Awareness and Sustainable Agriculture

Environmental awareness and the shift towards sustainable agriculture practices are

playing a significant role in boosting the North America fertilizers market. As concerns about soil degradation, nutrient runoff, and water pollution have gained prominence, farmers and agriculturalists in the region are increasingly seeking environmentally friendly and sustainable fertilizer options.

Conventional fertilizers, if overused or misapplied, can lead to the contamination of water bodies with excess nutrients, causing harmful algal blooms and negatively impacting aquatic ecosystems. In response to these concerns, farmers are turning to eco-friendly alternatives, such as organic fertilizers and slow-release formulations, which have a reduced environmental footprint.

Organic fertilizers, derived from natural sources like compost, manure, and plant materials, are gaining popularity due to their sustainability and soil-building qualities. These fertilizers not only provide essential nutrients to crops but also enhance soil structure and microbial activity, contributing to long-term soil health. The adoption of organic fertilizers aligns with the principles of sustainable agriculture, which prioritize soil conservation and environmental stewardship.

Additionally, slow-release fertilizers are designed to release nutrients gradually over an extended period, ensuring that crops receive a consistent supply without excess runoff. This not only improves nutrient use efficiency but also minimizes the risk of nutrient leaching into groundwater. Such innovations cater to the needs of environmentally conscious farmers and contribute to the reduction of the environmental impact associated with fertilizers.

Regulatory agencies have also played a pivotal role in promoting sustainable fertilizer practices. Stricter regulations on nutrient management and water quality have encouraged farmers to adopt responsible fertilizer application methods. Compliance with these regulations is driving the development and adoption of innovative fertilizer formulations and application techniques that minimize environmental harm.

Furthermore, consumers are increasingly demanding sustainably grown produce, leading many farmers to adopt sustainable practices, including responsible fertilizer use. This market-driven shift towards sustainability is driving the demand for eco-friendly fertilizers that align with consumer preferences.

Key Market Challenges

Environmental Concerns and Regulations

Environmental concerns and regulations are significant hindrances to the North America fertilizers market, impacting both manufacturers and farmers. As the agricultural industry seeks to balance the growing demand for food production with environmental sustainability, a number of challenges have emerged.

Excessive fertilizer use has led to nutrient runoff into water bodies, causing pollution and contributing to harmful algal blooms. This not only affects water quality but also disrupts aquatic ecosystems, posing a threat to biodiversity. Consequently, environmental agencies have imposed stringent regulations aimed at mitigating these negative impacts.

These regulations restrict the application of fertilizers, particularly phosphorus and nitrogen, to minimize runoff and reduce the risk of water pollution. Compliance with these regulations necessitates changes in farming practices, including precise fertilizer application, which can be costly and require adjustments in equipment and techniques.

Furthermore, regulatory agencies are increasingly focusing on fertilizer labeling and nutrient content reporting. Manufacturers must ensure that their products adhere to labeling requirements and provide accurate information about nutrient content. This adds to the administrative burden and cost of compliance.

Additionally, some regions within North America are implementing buffer zones and setback requirements for fertilizer application near water bodies. These measures restrict where and when fertilizers can be applied, potentially reducing agricultural productivity and increasing the complexity of farm management.

Sustainable Agriculture and Organic Farming

Sustainable agriculture and the rise of organic farming practices are presenting challenges to the North America fertilizers market. While these environmentally conscious approaches to agriculture offer numerous benefits, they also have the potential to hinder the traditional fertilizers market.

One of the primary challenges comes from the growing popularity of organic farming. Organic farming practices emphasize natural soil health and rely on organic fertilizers such as compost, manure, and cover crops. These organic materials enhance soil fertility and structure over time, reducing the need for synthetic fertilizers. As a result, organic farmers use fewer conventional fertilizers, impacting the sales and profitability of

traditional fertilizer manufacturers.

Additionally, organic farming prohibits the use of synthetic fertilizers with readily available nutrients, which are commonly found in conventional fertilizers. Organic farmers instead rely on slow-release and nutrient-dense organic materials, which may not require as frequent application but may lead to lower crop yields compared to their conventionally fertilized counterparts.

Sustainable agriculture, which encompasses various practices aimed at reducing environmental impacts, also encourages the efficient use of fertilizers. Precision farming techniques, such as GPS-guided machinery and data analytics, allow farmers to optimize fertilizer application, minimizing waste and reducing the environmental footprint. While this is positive for sustainability, it means that farmers use less fertilizers overall, potentially affecting the sales volume in the traditional fertilizers market.

Key Market Trends

Government Support and Subsidies

Government support and subsidies play a pivotal role in boosting the North America fertilizers market. The agricultural sector in the region benefits from various forms of governmental assistance aimed at enhancing productivity, ensuring food security, and supporting rural communities. These subsidies and support programs have a direct and indirect impact on the demand for fertilizers.

Farmers often receive subsidies or financial assistance to offset the costs of purchasing fertilizers. These subsidies make fertilizers more affordable and accessible, especially for smaller and resource-constrained farmers. As a result, farmers are more inclined to invest in fertilizers to optimize crop yields and ensure consistent agricultural productivity.

Moreover, government-backed research and development initiatives in agriculture lead to innovations in fertilizer formulations and application methods. These initiatives aim to improve the efficiency and sustainability of fertilizer use. As a consequence, farmers gain access to more effective and environmentally friendly fertilizer products that align with modern agricultural practices and regulatory requirements.

Government agencies also provide extension services and training programs to educate farmers on best practices in fertilizer application. These educational efforts help farmers make informed decisions about fertilizer use, reducing the risk of over-application and

environmental harm. By promoting responsible and efficient fertilizer use, governments contribute to sustainable agriculture and environmental stewardship.

Furthermore, government policies often encourage the adoption of advanced technologies in agriculture, including precision agriculture techniques that optimize fertilizer application. These technologies can improve nutrient management, minimize fertilizer wastage, and enhance crop yields. As a result, the fertilizers market benefits from increased demand for precision agriculture equipment and fertilization technologies.

Precision Agriculture and Technology Adoption

Precision agriculture and the widespread adoption of technology are significant drivers behind the growth of the North America fertilizers market. These innovative approaches to farming have transformed traditional agricultural practices, making them more efficient, sustainable, and precise.

Precision agriculture leverages technology such as GPS-guided tractors, drones, and advanced sensors to optimize various aspects of farming, including fertilizer application. By precisely mapping fields and monitoring crop conditions, farmers can tailor fertilizer applications to the specific needs of their crops and the unique characteristics of their soil. This level of precision ensures that nutrients are distributed accurately, reducing waste and minimizing environmental impact.

The adoption of technology in agriculture extends beyond precision equipment. Data analytics and farm management software have become essential tools for farmers in North America. These platforms collect and analyze data on soil conditions, weather patterns, crop growth, and fertilizer usage. Farmers can make data-driven decisions about when, where, and how much fertilizer to apply, optimizing nutrient management and resource efficiency.

Furthermore, remote sensing technology, including satellite imagery and aerial drones, allows farmers to monitor crop health and nutrient levels with unprecedented accuracy. These real-time insights enable timely adjustments to fertilizer applications, ensuring that crops receive the nutrients they need when they need them. This not only improves nutrient use efficiency but also minimizes the risk of over-fertilization, which can negatively impact the environment.

The adoption of precision agriculture techniques and technology in North America has

redefined the role of fertilizers in farming. Fertilizers are no longer applied uniformly across fields but are customized to meet the precise requirements of each crop and soil type. This approach not only optimizes crop yields but also reduces the overall volume of fertilizers needed, benefiting both farmers and the environment.

Segmental Insights

Crop Type Insights

Based on the Crop Type, Grains & Cereals emerged as the dominant segment in the North America market for North America Fertilizers Market in 2022. Grains & Cereals, including crops like corn, wheat, rice, and barley, form the staple diet for both humans and livestock in North America. These crops are the foundation of the region's food supply chain, addressing the dietary needs of a growing population and a significant livestock industry.

Grains & Cereals are typically cultivated over extensive agricultural acreage in North America. The vast farmlands dedicated to these crops result in a substantial demand for fertilizers, as farmers strive to maximize yields and productivity.

Mode of Application Insights

Based on the Mode of Application, the Broadcasting segment emerged as the dominant player in the North America market for North America Fertilizers Market in 2022. Broadcasting is a straightforward and easily accessible method of fertilizer application. It involves spreading granular or powdered fertilizers evenly across the field's surface. This simplicity makes it suitable for a wide range of crops and is well-suited for larger agricultural operations. Broadcasting is versatile and adaptable to various crop types, including grains, cereals, and oilseeds, which are prevalent in North America. It allows farmers to cover extensive acreage efficiently.

When applied correctly, broadcasting provides reasonably uniform fertilizer distribution across the field. This uniformity is essential for ensuring that all plants receive an adequate supply of nutrients, contributing to consistent crop growth and yields.

Regional Insights

United States emerged as the dominant player in the North America Fertilizers Market in 2022, holding the largest market share. The United States boasts an extensive

agricultural landscape, encompassing diverse climates and soil types across various states. This vast land area is dedicated to the cultivation of a wide range of crops, including grains, cereals, oilseeds, fruits, vegetables, and more. The sheer size and diversity of U.S. agriculture contribute significantly to the demand for fertilizers. The United States is a significant player in the global agricultural market. As one of the world's leading exporters of agricultural products, it must meet international demands for high-quality crops and commodities.

Key Market Players

Koch Fertiliser Australia Pty Ltd

Incitec Pivot Limited

Wesfarmers Limited

Spraygro Liquid Fertilizers

S.J.B. Ag-Nutri

Yara

Tradecorp APAC Pty. Ltd.

Neutrog Australia

Pacific Fertiliser Pty Ltd

Perdaman.

Report Scope:

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

North America Fertilizers Market, By Origin:

Organic

Synthetic

Bio-fertilizer

North America Fertilizers Market, By Mode of Application:

Foliar Spraying

Fertigation

Sowing

Broadcasting

Spraying

Drip Method

Others

North America Fertilizers Market, By Form:

Solid

Liquid

North America Fertilizers Market, By Crop Type:

Grains & Cereals

Pulses & Oilseeds

Commercial Crops

Fruits & Vegetables

Other

North America Fertilizers Market, By Souce:

Domestic

Import

North America Fertilizers Market, By Region:

United States

Canada

Mexico

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the North America Fertilizers Market.

Available Customizations:

North America Fertilizers 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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