

Controlled Release Fertilizers Market Report 2022-2031 | Closer Look at the Industry Opportunities and Challenges

The non-agricultural segment held the largest share of nearly two-thirds of the global controlled release fertilizers market in 2021.

NEW CASTLE, DELAWARE, UNITED STATES, September 4, 2023 /EINPresswire.com/ -- The non-agricultural segment held the largest share of nearly two-thirds of the global [controlled release fertilizers market](#) in 2021, and is expected to maintain a noteworthy growth during the forecast

period. The need for huge amount of feedstock in order to produce electricity and fuel resources drive the demand for controlled release fertilizers in the non-agricultural segment. However, the agricultural segment is likely to exhibit the highest CAGR of 7.1% in 2031. Rise in demand for agricultural products due to surge in population drives the demand for control release fertilizers in this segment.



Controlled Release Fertilizers Market Report

Controlled Release Fertilizers (CRF) are a type of fertilizer designed to release nutrients slowly and steadily over an extended period, providing plants with a consistent and balanced supply of essential nutrients. This technology is used in agriculture and horticulture to improve nutrient efficiency, reduce environmental impacts, and enhance crop yields.

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Environmental Benefits: One of the primary drivers for the growth of CRFs is their environmental benefits. These fertilizers help reduce nutrient runoff into water bodies, which can lead to water pollution and harmful algal blooms. By releasing nutrients slowly, CRFs minimize nutrient losses.

Wide Application: Controlled release fertilizers are used across various crop types, including cereals, oilseeds, fruits, vegetables, and turf and ornamental plants. The adoption of CRFs varies depending on the specific crop and regional agricultural practices.

The soil segment held the largest share of more than one-third of the global controlled release fertilizers market in 2021, and is expected to maintain a prominent growth during the forecast period. Rise in population and surge in the demand for food products have led to the increase in the demand for crop production in the agricultural industry, leading to the utilization of controlled release fertilizers to improve crop yield. However, the others segment is likely to exhibit the highest CAGR of 7.2% in 2031. The growing demand for food globally is expected to primarily drive the demand for water soluble fertilizers in the future as they provide several advantages over conventional fertilizers, including high utilization rate, higher crop yield in limited areas, and enhanced nutrient absorption in the soil.

Various Technologies: CRFs use various technologies to control nutrient release, including polymer-coated granules, sulfur-coated urea, and encapsulation. Each technology has its advantages and is suitable for different applications.

Market Structure: The controlled release fertilizers market includes both multinational companies and smaller, specialized manufacturers. Some prominent companies in the CRF market include ICL Group, Yara International, The Scotts Miracle-Gro Company, Nutrien, and Haifa Group.

Asia-Pacific was the largest market in 2021, accounting for nearly three-fifths of the global controlled release fertilizers market, and is likely to lead the trail throughout the forecast period. Moreover, the same segment is anticipated to manifest the fastest CAGR of 6.9% during the forecast period, in the region. Due to the rapidly increasing population and the growing demand for food in this region, agriculturists are using advanced products and specialty fertilizers such as controlled release fertilizers to heighten crop yields. They are also focusing on modernizing their farming methods with the help of these fertilizers to boost harvest and fulfill the ever-rising demand for food.

Regional Adoption: The adoption of controlled release fertilizers varies by region. Developed agricultural markets, such as North America and Western Europe, have seen significant adoption due to the emphasis on sustainable agriculture. Emerging markets, like Asia-Pacific and Latin America, are also witnessing increased usage as awareness of the benefits of CRFs grows.

Regulatory Oversight: The use of controlled release fertilizers is subject to regulatory oversight in many countries. Regulations may govern the labeling, handling, and application of CRFs to ensure their safe and effective use.

Growing demand for agricultural products across the globe due to surge in population, rise in penetration of controlled and slow-release fertilizers, harmful effects on the environment associated with the use of conventional fertilizers, and the need for control fertilizers to improve crop yield fuel the growth of the global controlled release fertilizers market. However, high cost of controlled and slow release fertilizers due to the use of new technologies used in their production and lack of awareness among growers and farmers about the benefits of these fertilizers hinder the market growth.

Market Outlook: The CRF market is expected to continue growing as agriculture strives to become more sustainable and environmentally friendly. Innovations in CRF technologies, such as precision agriculture and smart fertilization systems, are likely to play a significant role in shaping the market's future.

According to the report, the global controlled release fertilizers industry is estimated to generate \$2.3 billion in 2021 and \$4.3 billion by 2031, witnessing a CAGR of 6.6% from 2022 to 2031. The report offers a detailed analysis of changing market trends, top segments, key investment pockets, value chain, regional landscape, and competitive scenario.

Key Players:

- Yara International ASA
- Nutrien Ltd.
- The Mosaic Company
- ICL Group
- Nufram Ltd.
- Kingenta
- ScottsMiracle-Gro
- Koch Industries
- Helena Chemical Company
- SQM

- JNC Corporation

- Haifa Chemicals

- AGLUKON

- Pursell Agri-Tech

- Ekompany International BV

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+1 800-792-5285

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