



Freedonia Focus Reports
US Collection

Fertilizers:

United States

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Table of Contents

1. Highlights	3
2. Market Environment	4
Historical Trends	4
Key Economic Indicators	6
Environmental & Regulatory Factors	7
3. Segmentation & Forecasts	9
Nutrients	9
Nitrogen	11
Potassium	12
Phosphate	12
Other Nutrients	14
Markets	16
Agriculture	17
Commercial & Consumer	18
4. Industry Structure	20
Industry Characteristics	20
Market Leaders	22
CF Industries	22
Mosaic	23
Nutrien	23
5. About This Report	25
Scope	25
Sources	25
Industry Codes	26
Freedonia Methodology	26
Resources	28

List of Tables & Figures

Figure 1 Key Trends in US Fertilizer Demand, 2017 – 2022	3
Figure 2 US Fertilizer Demand Trends, 2007 – 2017	4
Table 1 Key Indicators for US Fertilizer Demand, 2007 – 2022	6
Figure 3 US Fertilizer Demand by Nutrient, 2007 – 2022 (000 m tons nutrient)	9
Table 2 US Fertilizer Demand by Nutrient, 2007 – 2022 (000 m tons nutrient)	9
Table 3 US Fertilizer Supply & Demand, 2007 – 2022 (000 m tons nutrient)	10
Figure 4 US Fertilizer Demand by Nutrient, 2007 – 2022 (%)	14
Figure 5 US Fertilizer Demand by Market, 2007 – 2022 (000 m tons nutrient)	16
Table 4 US Fertilizer Demand by Market, 2007 – 2022 (000 m tons nutrient)	16
Figure 6 US Fertilizer Demand by Market, 2007 – 2022 (%)	19
Table 5 Leading Suppliers to the US Fertilizer Market by Product	22
Table 6 NAICS & SIC Codes Related to Fertilizers	26

About This Report

Scope

This report forecasts to 2022 US fertilizer demand and production in metric tons. Total demand is segmented by nutrient in terms of:

- nitrogen
- potassium
- phosphate
- other nutrients such as boron, copper, and iron

Total demand is also segmented by market as follows:

- agriculture
- commercial and consumer

To illustrate historical trends, total demand is provided in annual series from 2007 to 2017; total production and the various segments are reported at five-year intervals for 2007, 2012, and 2017.

Products include nitrogen, phosphate, potassium, micronutrients (e.g., sulfur), and commercially manufactured organic fertilizers. On-site fertilizer production (e.g., animal waste, kitchen scraps) is excluded from the scope of this report.

Unless otherwise noted, demand is given in metric tons (nutrient basis) and is evaluated at the manufacturers' level. Manufacturers' level-demand includes any formulation and additives included by the manufacturer in the fertilizer product shipped to distributors, retailers, and secondary formulators such as fertilizer application services or consumer formulators. Additional formulation by distributors, service companies, and end users is excluded.

Key macroeconomic indicators are also provided with quantified trends. Other various topics, including profiles of pertinent leading suppliers, are covered in this report. A full outline of report items by page is available in the Table of Contents.

Sources

Fertilizers: United States (FF35077) is based on [Global Fertilizers](#), a comprehensive industry study published by The Freedonia Group. Reported findings represent the synthesis and analysis of data from various secondary, macroeconomic, and demographic sources, such as:

- firms participating in the industry, and their suppliers and customers

About This Report

- government/public agencies
- intergovernmental and non-governmental organizations
- trade associations and their publications
- the business and trade press
- indicator forecasts by The Freedonia Group
- the findings of other reports and studies by The Freedonia Group

Specific sources and additional resources are listed in the Resources section of this publication for reference and to facilitate further research.

Industry Codes

Table 6 | NAICS & SIC Codes Related to Fertilizers

NAICS/SCIAN 2007		SIC	
North American Industry Classification System		Standard Industrial Classification	
115112	Soil Preparation, Planting, and Cultivating	0711	Soil Preparation Services
212393	Other Chemical and Fertilizer Mineral Mining	0721	Crop Planting, Cultivating, and Protecting
325311	Nitrogenous Fertilizer Manufacturing	1470	Chemical and Fertilizer Mineral Mining
325312	Phosphatic Fertilizer Manufacturing	1479	Chemical and Fertilizer Mineral Mining, NEC
325314	Fertilizer (Mixing Only) Manufacturing	2873	Nitrogenous Fertilizers
		2874	Phosphatic Fertilizers
		2875	Fertilizers, Mixing Only
		2819	Industrial Inorganic Chemicals, Not Elsewhere Classified
		3295	Minerals and Earths, Ground or Otherwise Treated

Source: US Census Bureau

Freedonia Methodology

The Freedonia Group, a subsidiary of MarketResearch.com, has been in business for more than 30 years and in that time has developed a comprehensive approach to data analysis that takes into account the variety of industries covered and the evolving needs of our customers.

Every industry presents different challenges in market sizing and forecasting, and this requires flexibility in methodology and approach. Freedonia methodology integrates a variety of quantitative and qualitative techniques to present the best overall picture of a market's current position as well as its future outlook: When published data are available, we make sure they are correct and representative of reality. We understand that published data often have flaws either in scope or quality, and adjustments are made accordingly. Where no data are available, we use various methodologies to develop market sizing (both

About This Report

top-down and bottom-up) and then triangulate those results to come up with the most accurate data series possible. Regardless of approach, we also talk to industry participants to verify both historical perspective and future growth opportunities.

Methods used in the preparation of Freedonia market research include, but are not limited to, the following activities: comprehensive data mining and evaluation, primary research, consensus forecasting and analysis, ratio analysis using key indicators, regression analysis, end use growth indices and intensity factors, purchase power parity adjustments for global data, consumer and end user surveys, market share and corporate sales analysis, product lifespan analysis, product or market life cycle analysis, graphical data modeling, long-term historical trend analysis, bottom-up and top-down demand modeling, and comparative market size ranking.

Freedonia quantifies trends in various measures of growth and volatility. Growth (or decline) expressed as an average annual growth rate (AAGR) is the least squares growth rate, which takes into account all available datapoints over a period. The volatility of datapoints around a least squares growth trend over time is expressed via the coefficient of determination, or r^2 . The most stable data series relative to the trend carries an r^2 value of 1.0; the most volatile – 0.0. Growth calculated as a compound annual growth rate (CAGR) employs, by definition, only the first and last datapoints over a period. The CAGR is used to describe forecast growth, defined as the expected trend beginning in the base year and ending in the forecast year. Readers are encouraged to consider historical volatility when assessing particular annual values along the forecast trend, including in the forecast year.

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Resources

The Freedonia Group

Global Fertilizers

Freedonia Industry Studies

Agricultural Pesticide Market in the US

Global Agriculture Equipment

Lawn & Garden Consumables in the US

Specialty Surfactants

Freedonia Focus Reports

Agricultural Pesticides: United States

Aquaculture Supplies & Equipment: United States

Home & Garden Pesticides: United States

Lawn & Garden Consumables: United States

Perlite & Vermiculite: United States

Pesticide Adjuvants: United States

Phosphate Rock: United States

Potash: United States

Freedonia Custom Research

Trade Publications

AgUpdate

AgWeb

CropLife

Farm Industry News

World Fertilizer

Agencies & Associations

Association of American Plant Food Control Officials

Fertilizer Industry Round Table

The Fertilizer Institute

The Fluid Fertilizer Foundation

International Fertilizer Association

Occupational Safety and Health Administration

United States Census Bureau

United States Environmental Protection Agency

United States International Trade Commission