

Micronutrient Market by Type (Zinc, Manganese, Boron, Copper, Molybdenum, Iron), Form (Chelated & Non Chelated), Application Mode (Soil, Foliar, Fertigation), Crop Type & Geography - Global Trends and Forecast to 2018

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Abstracts

The essential elements needed by plants are known as micronutrients; they are required in trace amounts. Although they are in small quantity, they are as important as macronutrients. Micronutrients include copper (Cu), boron (B), manganese (Mn), chlorine (Cl), iron (Fe), molybdenum (Mo), and zinc (Zn). They have acquired a lot of attention in the agriculture in recent years. Now it is possible to give plants added micronutrients by using foliar sprays and supplements designed for better plant health. If the supply of one or more of these elements is inadequate, yields will be reduced and the quality of crop products will be affected.

For micronutrients to be essential for plants, they need to satisfy three criteria: (1) the plant cannot grow and reproduce normally without the element, (2) its action must be specific and unable to be replaced by any other micronutrient, and (3) its action must be direct. The agriculture micronutrients market has gained worldwide importance in the recent past due to its effectiveness in terms of quality and productivity of crops. Zinc deficiency is the most abundant micronutrient problem throughout the world which is affecting many crops, including the staples namely, rice, corn, and wheat. Boron deficiency is the second-most widespread micronutrient problem. Copper deficiency is important in some parts of the world, such as Europe and Australia. Iron deficiency is important in some regions, especially those in with Mediterranean climate and calcareous soils. The deficiency in micronutrients content results in stunted growth, withering of buds, yellowing of leaves, etc.

This research classifies the global agriculture micronutrients market on the basis of types, application modes, forms, crop types, and geography. Soil, foliar, and fertigation are the three application modes of agriculture micronutrients. Soil application has the largest share in the global agriculture micronutrients market. The micronutrients can be applied in chelated or non-chelated form. Non-chelated micronutrients form has dominated the global market compared to the chelated micronutrients.

FIGURE 1 AGRICULTURE MICRONUTRIENTS MARKET SHARE, BY GEOGRAPHY, 2012 Source: MarketsandMarkets Analysis

The North American agriculture micronutrients market is anticipated to show potential growth in the next five years. The largest global agriculture micronutrients market is for zinc. The market is anticipated to flourish in the next five years. With the huge market potential and growth, the market is likely to witness a significant change in the industry.

The report provides complete analysis of the world's leading players in the agriculture micronutrients industry, with a clear insight and commentary on the developments and trends. Major demand in the agriculture micronutrients market is anticipated to come from countries like China, U.S., Canada, Indonesia, Poland, Italy, Brazil, India, etc. The report provides complete exploration on the existing segment of the industry and the competitive approaches adopted by the major players in the agriculture micronutrients industry.

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The agriculture micronutrient market is estimated to grow at a CAGR of 6% from 2013 to 2018, reaching 1,335.4 thousand MT by 2018.

Global demand for agriculture micronutrients has increased due to increased deficiency of micronutrients in soil and shrinkage in agricultural land. Micronutrients' application in crops improves the crop quality and productivity. The micronutrient deficiency in plants cannot be identified easily and results in stunted growth or low productivity of crops. Micronutrient deficiency in soil has increased due to intensive agricultural practices, land degradation, and extensive use of macronutrient-based fertilizers. The global agriculture micronutrients market has shown tremendous growth over the last five years. Zinc, boron, and manganese held maximum share of the global agriculture micronutrients market in 2012. The global agriculture micronutrients market in 2012 was led by APAC. Different modes of micronutrient applications are used by farmers, namely, soil application, foliar application, fertigation, seed treatment, and hydroponics. Soil application has the largest market share of 56% of the total application mode in the agriculture micronutrients market. Micronutrient availability in soil changes with the soil type, climate, cropping pattern, and agriculture techniques. The requirement of micronutrients depends on the type of soil and crop. Seed treatment and hydroponics are relatively new methodologies for farmers across the globe. The micronutrients can be applied in a chelated or non-chelated form. Non-chelated micronutrient form dominated the global market in 2012. Cereals, fruit, and vegetables consume the largest share of the agriculture micronutrients market.

The market was led by APAC in 2012, which was estimated to be \$2,170.7 million in 2012 and is forecasted to grow at a CAGR of 8.3% from 2013 to 2018. North America is estimated to grow at a CAGR of 8.9% to reach \$1,366.1 million by 2018. Europe is predicted to grow at a CAGR of 5.5% from 2013 to 2018 to reach \$822.3 million by 2018. ROW is anticipated to grow at a CAGR of 8.2% from 2013 to 2018.

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