

Use of Chemical Fertilizers in Organic Agriculture Farming

Hussain Sharief*

Department of Industrial Sciences and Technology, University Malaysia Pahang, Pahang, Malaysia

DESCRIPTION

Farmers have been concerned with managing soil fertility for thousands of years. Minerals or manure were used to increase the productivity of their fields. The simplifications were quickly refuted at the time by the scientific colleagues. The role of humus and organo-mineral interactions was crucial to the complex scientific understanding of plant nutrition, which was in line with more recent discoveries starting in the 1990s. Knowledge degradation occurred in this area, which was influenced in part by the blending of economics. The soil's ability to retain water and breathe is improved by various fertilizers, which is their second method of action.

Like many other articles on fertilizers, this one places a strong focus on nutrition. Usually, fertilizers offer, in varied ratios. Elements are utilized as a classification system for the nutrients needed for good plant life, but they are not employed as fertilizers. Instead, fertilizers are built on molecules that include these components. The amounts of macronutrients in plant tissue range from 0.15% to 6.0% on a dry matter (DM) (0% moisture) basis and are ingested in higher concentrations. The four primary elements that make up plants are hydrogen, oxygen, carbon, and nitrogen. Water and carbon dioxide are common forms of carbon, hydrogen, and oxygen. Despite making up the majority of the atmosphere, nitrogen is present in a form that is inaccessible to plants. Since nitrogen is present in proteins, DNA, and other components, it is the most crucial fertilizer (e.g., chlorophyll). Only a small number of bacteria and their host plants, most notably legumes, are capable of turning atmospheric nitrogen (N₂) into ammonia and fixing it.

Phosphate is necessary for the synthesis of some lipids, DNA, and ATP, the primary energy carrier in cells. Natural fertilizers "may be used to identify fertilizers that have an organic, biologic origin, meaning they were made from living or extinct organisms. Commercially available and frequently packaged products that aim to adhere to the standards and guidelines adopted by "organic agriculture" and "environmentally friendly" are also referred to as "organic fertilizers." "gardening refers to related systems for growing food and plants that severely restrict or completely forgo the use of synthetic pesticides and fertilisers. The "organic fertilizer" products often include a combination of permissible additions, such as farmed microbes and derivatives, nutritious rock powders, powdered sea shells (crab, oyster, etc.), other prepared products, such as seed meal, and certain organic materials. Animal wastes, agricultural plant wastes, seaweed, compost, and cleaned sewage sludge are all examples of organic fertilizers according to the first description (bio solids). In addition to manures, animal sources can include byproducts of animal slaughter, such as blood meal, bone meal, feather meal, hides, hoofs, and horns.

CONCLUSION

Due to variables including public image and lingering toxins, organic farming and gardening may not be able to employ organically generated materials available to industry, such as sewage sludge. On the other hand, because the materials are appealing to consumers, advertised "organic fertilizers" may contain and encourage processed organics. Regardless of definition or ingredient list, the majority of these goods contain less-concentrated nutrients that are more difficult to measure. They may also provide benefits for improving the soil.

Correspondence to: Hussain Sharief, Department of Industrial Sciences and Technology, University Malaysia Pahang, Pahang, Malaysia, E-mail: Shariefhu@gmail.com

Received: 03-Oct-2022, Manuscript No. JBFBP-22-20702; **Editor assigned:** 05-Oct-2022, Pre QC No. JBFBP-22-20702 (PQ); **Reviewed:** 20-Oct-2022, QC No. JBFBP-22-20702; **Revised:** 25-Oct-2022, Manuscript No. JBFBP-22-20702 (R); **Published:** 02-Nov-2022, DOI: 10.35248/2332-0915.22.13.504

Citation: Sharief H (2022) Use of Chemical Fertilizers in Organic Agriculture Farming. J Agri Sci Food Res.13:504

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