

AGGRAND[®]

Natural Fertilizer



AGGRAND Natural Fertilizer enhances plant growth by providing important plant nutrients: nitrogen, phosphorus and potassium. Ideal for foliar applications.

- *Nitrogen helps develop thick green lawns.*
- *Phosphorus enhances root development.*
- *Potassium enhances stress tolerance.*
- *N-P-K promote vigorous growth, which improves disease and stress resistance.*

Why should you consider going natural?

Natural fertilizers supply the important plant nutrients nitrogen, phosphorus and potassium (N-P-K), which help lawns and plants create rich color and deep roots. In addition, N-P-K promote vigorous growth, and improve disease and stress resistance.

Naturally managed lawns cycle nutrients efficiently, which helps prevent a buildup of thatch—an accumulation at the soil surface of dead, but undecomposed, stems and leaves. Importantly, grass clippings *do not* contribute to thatch—in fact, cycling grass clippings can annually provide a lawn with as much as two pounds of additional nitrogen per thousand square feet; a nice boost of free nutrients.¹

The most important goal of any soil fertility program is the stimulation of the natural cycles that release nutrients for plant uptake. Ninety percent of the needed nitrogen for plant growth is converted from atmospheric nitrogen (78% nitrogen) by bacteria into nitrates through the natural cycle of nitrification. Natural fertilizers and water applied in the right combination along with the return of grass clippings provide the nutrients needed to support proliferation of these bacteria. The nourished bacteria rapidly process the nutrients making them available for healthy lawn growth. Natural fertilizers release nutrients more slowly than chemical fertilizers. In addition, they don't contain the high concentrations of nitrogen that are contained in most chemical fertilizers. High nitrogen concentrations in the soil can damage the biological community

and are proven to contribute to water pollution by leaching out of the soil into the ground and surface water². By supplying low levels of nitrogen and other nutrients directly to the lawn and indirectly through feeding the soil biological community, the grass is fed continuously without causing water pollution³.

Some conventional, manufactured-chemical fertilizers supply nitrogen in the form of chemical salts. This form of manufactured-chemical nitrogen dissolves quickly to provide a rapid nitrogen release. Often, a quick nitrogen release encourages weed growth. Lawn grasses respond to a nitrogen 'spike' by producing excessive top growth in lieu of laying in stores of carbohydrates. Lawns with poor carbohydrate reserves often go dormant during drought or other stressful times³.

Literature cited:

1. Frank Rossi, Ph.D. 1995. Green Thumb Project. University of Wisconsin Madison, Madison, Wisconsin.
2. William R. Jackson, Ph.D. 1993. Organic Soil Conditioning (pp. 401-425). Jackson Research Center, Evergreen, Colorado.
3. Warren Schultz, 1989. The Chemical-Free Lawn (pp. 67-83). Rodale Press, Emmaus, Pennsylvania.

Ask the experts ...

RODALE PRESS, *Chemical Free Yard & Garden*

“Foliar feeding can supply nutrients when they are lacking or unavailable in the soil or when roots are stressed and cannot take them up well.”

“Seaweed can also make plants more resistant to drought and diseases.”

LEE FRYER, *The Bio-Gardener's Bible*

“Combine seaweed and liquid fish to provide plant hormones.”

“Foliar fertilizers are remarkably efficient compared to soil-applied fertilizers because they don't lose nutrients due to leaching.”

“They help plants cope with drought and other kinds of stress, and promote photosynthesis.”

T. L. SENN, PH.D., *Seaweed and Plant Growth*

“Seaweed products should be used as a companion material with other plant nutrients. Together they help grow better crops. They increase farm profits by increasing soil and crop health...”

“Seaweed extracts contain many of the naturally occurring cytokinins and when applied as a foliar spray are taken into the leaf and translocated to the active regions.”

RODALE PRESS, *Gardening and Landscape Techniques*

“Fish emulsion can be applied diluted to the soil at planting time as a side dressing or sprayed on as a foliar feed.”

AGGRAND®

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are available from your local AGGRAND/AMSOIL
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