New from Aqua•Aid, CARBO•AID!

Carbo-Aid is a complex carbohydrate base microbial food supplement comprised of complex natural sugars and proteins, leather tankage, kelp, humic and fulvic acids. Carbo-Aid is specifically formulated as a food for the microbes in the soil.

Microbial activity in the soil is one of the primary ingredients for producing a healthy plant. Many species of turf grass plants export up to 25% of their photosynthates through the roots to feed the microbes. Carbo-Aid is designed to enhance the natural complex solution that is normally supplied by the plant to feed the soil microbes. Microbes are the primary decomposers of organic matter and liberate minerals needed for plant growth.

When a plant is under stress, it is unable to produce enough proteins and sugars to meet its own needs. This is one of the primary reasons for decreased root depth during high temperature and stress conditions. Carbo-Aid is designed to replace this high carbohydrate solution that is normally supplied to the microbes during ideal growing conditions.

For more information on Aqua-Aid's soil management program for you and your turf, call or write:

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was specifically formulated as a carbohydrate food supplement for the microbes in the soil. CARBO-AID is a natural solution of simple and complex carbohydrates, proteins and humates designed to promote a “living soil”. Microbial action in the soil is so important that grass plants export up to 25% of their photosynthates through the roots to feed them. Soil microbes in the root zone assist in mineral up take and produce organic substances which enhance plant growth. A healthy soil ecology will promote organic matter break down and create humus. Through this process, minerals and organic substances are liberated for use by the plants.

**Grass plants are under stress when they can not produce enough carbohydrates to meet their own needs.** This is one of the reasons that root depth decreases under high temperature and stress conditions. CARBO-AID was designed to replace the complex solution that is normally supplied by the plant to feed the microbes in the soil. Without the addition of organic matter, the carbon and mineral cycling of the soil is disrupted. This can occur under agronomic conditions where the top growth is continually removed and/or in soils of poor natural ecology, such as high sand content golf greens.

The use of CARBO-AID will help establish a thriving soil ecology which will enhance the soil and the grass plants. This will result in:

- **A reduced accumulation of thatch** due to an increase in microbial activity.

- **Less leaching of nutrients and fluctuation in growth** from fertilizer application. Soil microbes provided with a usable carbon source and balanced nutrition will quickly absorb any excess nutrients. These nutrients will then be slowly released through the natural mineral cycling in the soil.

- **Greater resistance to disease and stress.** By promoting a balanced soil ecology, CARBO-AID will encourage the growth of beneficial microbes. Soil microbes produce antibiotics like compounds which promote plant growth. If the beneficial microbes are properly nurtured they can assist the plant’s defense against soil borne pathogens.

- **Increased root growth and plant vigor.** The growth promoting products provided by CARBO-AID will stimulate root growth and plant vigor. In addition, CARBO-AID provides small quantities of simple sugars which can be absorbed directly by the plant. In other words, free photosynthates, which can be used for root growth and stress relief.

- **Better water penetration and internal drainage.** Microbes and plant roots provide substances essential to the building of soil structure.

- **Higher levels of soil organic matter and CEC.** By promoting root microbial growth you will elevate the level of organic matter in the soil. A thriving soil ecology will facilitate the breakdown of thatch. Both will lead to an increase of humus, which in soils without a clay fraction are the primary sites of cation exchange capacity.

**CARBO-AID was designed to be used in conjunction with a normal fertilization program.** By enhancing the soils ecology, the turf will be able to make better use of the fertilizer applied with more sustained growth and greater efficiency. Follow the label directions carefully.