

Turf Management with BIOSOL

Turf managers and golf course superintendents are confronted with a wide variety of soil conditions, fertilizer requirements and turf expectations when maintaining a healthy turf. The organic substances in Biosol promote soil health. Soil health is the capacity of soil to function within ecosystem boundaries to sustain biological productivity, maintain environmental health, promote plant growth and achieve a healthy balance of good soil microorganisms.

It is important to add a high quality, stable organic material that is going to promote soil health to support soil life and plant health for all plants. Biosol is an all-purpose, natural organic fertilizer and soil amendment. Its high quality organic nutrients, organic substances and chitin are the stable, long lasting nutrients that help build plant and soil health. The nutrients in Biosol typically do not begin to release until 30 days after application, making Biosol a true slow release product. These nutrients are the difference between Biosol and most other fertilizers on the market today.



With Chemical Fertilizer in 2006



With Biosol in 2006 Drought Conditions

The unique and high concentration of organically bound nitrogen (95% – 97%) is the key to long term plant growth. Biosol's organically bound nutrients feed plants and soils during the growing season, allowing plants to utilize the nutrients when needed. These stable, organic nutrients eliminate the chance of nutrients leaching into ground water or being volatilized into the atmosphere, reducing the opportunity that weeds have to grow.

Chitin is one of the essential components that separate Biosol from other fertilizers and soil amendments. Chitin is an organic nitrogen source and a natural polymer with the ability to retain moisture and hold soil aggregates together. It plays an important role in suppressing soil borne pathogens and plant disease, encouraging healthy plant growth. Fungus diseases may also be suppressed due to the addition of Biosol's beneficial fungal and bacterial biomass.

It is important to remember that not all materials provide the same benefits. Using Biosol will encourage healthy soil life, plant growth and nutrient cycling for your turf. This is the goal of properly treating soils for long term plant health. Biosol's high quality stable and organically bound nutrients will continually promote healthy soils and plants.

Material Comparisons

| <u>Product Benefits</u> | <u>Biosol</u> | <u>Biosol Forte</u> | <u>Poultry Manure</u> | <u>Chemical Fertilizer</u> | <u>Composted Fert/ Mix</u> | <u>Compost</u> |
|--|----------------------|----------------------------|------------------------------|-----------------------------------|-----------------------------------|-----------------------|
| Positively affects soil fertility | +++ | +++ | + | --- | -- | ++ |
| Positively affects soil structure | +++ | +++ | + | --- | -- | ++ |
| Positively affects soil microorganisms | +++ | +++ | + | --- | -- | ++ |
| High content of organic matter | +++ | +++ | + | --- | -- | + |
| Affect on humus content | +++ | +++ | - | -- | - | +++ |
| Retains 3-4 times its weight in water | +++ | +++ | -- | --- | -- | +++ |
| High content of chitin | +++ | +++ | --- | --- | --- | --- |

Rating

| | | | |
|-------------------|-----|----------------|-----|
| Very, Very Strong | +++ | Very, Very Low | --- |
| Very Strong | ++ | Very Low | -- |
| Strong | + | Low | - |

First year applications should be heavier than the second year's applications to start the process of building a healthy balance of beneficial organic biomass in the soils. Apply Biosol on turf two times a year, 15 lbs per 1,000 sq. ft. in the spring and fall for the first year. Second year application rates should be at 10 lbs per 1,000 sq. ft. Biosol creates a natural green turf which is critical to the turf industry. Annual use of Biosol provides: a natural green turf color, results with less maintenance costs and a way to save money without compromising turf quality.

An environmentally safe product that is safe to be used around animals, humans and water systems, Biosol is a food grade quality product. Congratulations! You are on your way to a healthier, greener, environmentally balanced turf.



10801 E. 54th Avenue ▪ Denver, Colorado ▪ 80239 ▪ Ph: 303-696-8964 ▪ Fax: 303-696-0620
www.rockymtnbioproducts.com