

# BIOSOL for Revegetation

Engineers, contractors and landscapers are confronted with a wide variety of issues when called to put a revegetation plan into action. Soil conditions are typically the number one problem hampering revegetation efforts due to soil disturbance. Soil disturbance and compaction can destroy a large majority of the soil life on every site. Therefore, it is important to add a high quality organic material that is going to activate and re-establish soil health to support long term plant growth.

Biosol (Biosol & Biosol Forte) is recognized as a multi-nutrient fertilizer due to the complex organic compounds in the fermented organic material. 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. These nutrients are the difference between Biosol and most other fertilizers on the market today. 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 on your site.

## 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	+++	+++	+	---	--	+
Topsoil alternative	+++	+++	--	---	-	+++
Affect on humus content	+++	+++	-	--	-	+++
Retains 3-4 times its weight in water	+++	+++	--	---	--	+++
High content of chitin	+++	+++	---	---	---	---

### Rating

Very, Very Strong

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Very Strong

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Strong

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Very, Very Low

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Very Low

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Low

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September 2000



June 2001

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.

Chitin is an essential component that separates Biosol from other fertilizers and soil amendments. It plays an important role in suppressing soil borne pathogens and plant disease, encouraging healthy plant growth. Chitin is an organic nitrogen source and a natural polymer with the ability to retain moisture and hold soil aggregates together.

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 site. This is the goal of properly treating soils for long term plant health. Biosol's high quality stable and organically bound nutrients are vital to restoring your site. One application will promote healthy soils and plant growth for several years in non irrigated situations.

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Nutrient content	+	+	+	+++	+++	-
Nutrients available in 2 <sup>nd</sup> growing season	+++	+++	-	---	--	++
Risk of burning seed or existing vegetation	---	---	-	+++	+++	---
Risk of nitrogen leaching	---	---	+	+++	+++	---
Positively affects root system	+++	+++	+	-	-	+
Positive affects in arid conditions	+++	+++	+	---	--	++
Danger of importing weed seed	---	---	+	--	++	+++
	Very, Very Strong	+++	<b>Rating</b>	Very, Very Low	---	
	Very Strong	++		Very Low	--	
	Strong	+		Low	-	

Application rates depend on soil conditions, nutrients and organic matter content in the soil. These rates also depend on the goal and plan for your reclamation project. By applying Biosol, you will be assured that your project has the proper organic nutrients and organic substances needed for soil health and plant growth. We recommend application rates between 1,200 – 2,000 lbs per acre. It can be applied by broadcast spreader, hydro-seeder or by any method that seed is applied.

An environmentally safe product that is safe to be used around animals, humans and water systems, Biosol is a food grade quality product.

