

BIOSOL *Application Rates and Times*

HOME USE

VEGETATION OR PLANT TYPE	BY WEIGHT	BY VOLUME (DRY)	LBS./ 100 sq. ft.	WHEN TO FERTILIZE
lawns	One 25 lb bag covers 1000 sq. ft.		25	spring and fall
garden preparation	2 oz / sq. yd.	½ cup	1 ½ to 2	spring through fall
seeded row crops	1½ cup / 100 sq. ft., e.g., per 2"x50' furrow. Sprinkle Biosol down row, plant seeds			
house plants 8" - 10" pots	house plants 8" - 10" pots			
unfortified potting soil mixes for potted plants	4 cups / 1½ cu. ft. Use when planting (into) a pot, do not apply topically; use for house plant repotting, window boxes, container growing etc			
From pony packs to B & B BIOSOL is added in hole and in medium around flowers, vegetables, shrubs, trees.				
pony pack to 4" pots	1 oz. / plant added to backfill			spring through fall
1 to 2 gallon pots	1 lbs./ plant added to backfill			spring through fall
3 to 5 gallon pots	2 lbs. / plant added to backfill			spring through fall
B & B root ball & burlap	1 cup / 1' diameter root ball, mix in medium under and directly around root ball.			
flower gardens (planting)	2 oz. / sq. yd.	½ cup	1½	spring through fall
vegetable gardens (planting)	2 oz. / sq. yd.	½ cup	1½	spring through fall
compost preparation	10—20 lbs/yd ³			all year

For per plant home use see below

FARMING, GARDENING AND HOME USE RATES

VEGETATION OR PLANT TYPE	BY WEIGHT	PER PLANT	LBS /	WHEN TO
vegetables (all types)	2 oz. / sq. yd.	2 tbs.	1½ to 2	spring through fall
corn	1300 to 1600 lbs. / acre	¾ cup	3 to 3½	prior to cultivation
pulses, cereals	500 to 900 lbs. / acre	1 tbs.	1 to 2	prior to cultivation
potatoes	900 to 1400 lbs. / acre	¼ cup	2 to 3	prior to cultivation
sugar beets	800—1300 lbs. / acre	2 tbs.	2 to 3	prior to cultivation
strawberries, tomatoes	900—1200 lbs. / acre	2 tbs.	2 to 3	late fall or spring
vineyards	600—900 lbs. / acre	¾ cup	1½ to 3	Feb-Apr / Oct-Dec
young fruit plantation	600—800 lbs. / acre	1 cup	1½ to 3	spring or fall
fruit plantation	500—700 lbs.	¾ cup	1 to 2	spring or fall
berry shrubs	600—800 lbs. / acre	1½ cup	1½ to 2	spring or fall
meadows, pastures	800—1000 lbs. / acre		2 to 2½	spring or fall

TREES AND SHRUBS

young trees and shrubs	3 oz. / plant	½ cup	½ to 2	spring
ornamental trees, shrubs	6 oz. / sq. yd.	1 cup	5	spring
tall mature trees	6 lb. / 3' of tree height			spring and fall

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- Minnesota
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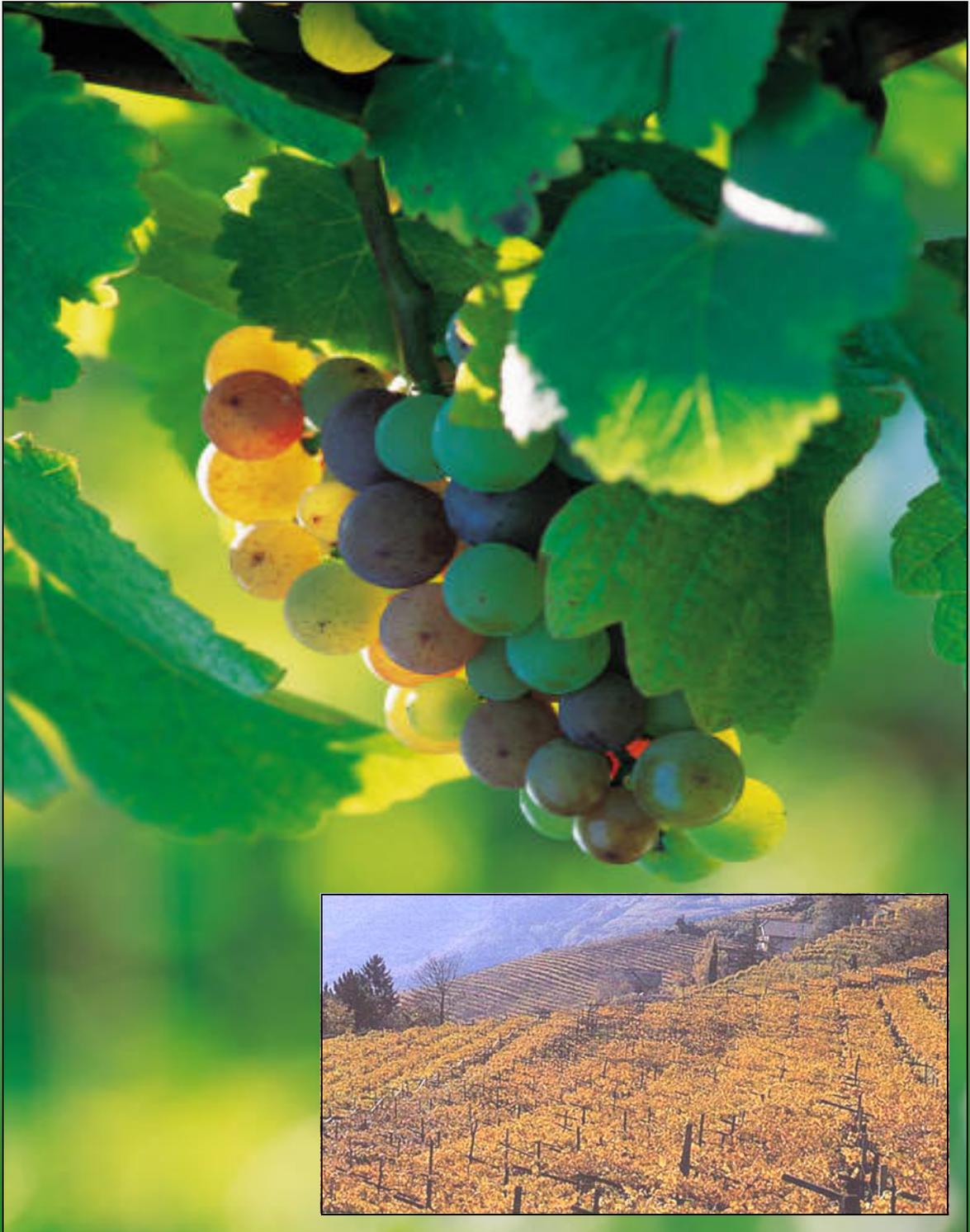
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BIOSOL[®]

The 100% All-Natural Organic Fertilizer

Agriculture & Vineyards



BIOSOL: The All-Organic Natural Fertilizer

A 100% organic long lasting fertilizer with soil improving benefits. Biosol promotes and develops the build up of humus due to the high amount of organic material. The soil life becomes active, providing quality nutrients readily available for the roots to absorb. The soil is enriched, rooting is strengthened and the growing and vitality of the plants is increased. Biosol strengthens and develops the plants resistance against diseases. The risk of nutrient leaching is very low because of the organic fixation of the nutrients, allowing for the ultimate use of the available nutrients. Biosol has a balanced nutrition ratio and supplies the plant with micro and macro nutrients throughout the whole growing period. Biosol lacks salt and is therefore suitable for greenhouse crops and arid/low precipitation areas. Biosol is a safe and ecological fertilizer because of the selected raw materials and vitamins. Since Biosol is 100% organic it is safe to use around children and animals.

Environmentally Balanced

As an All-Natural Organic Fertilizer, Biosol performs in harmony with the environment. Because it is 100% natural and environmentally balanced, Biosol promotes good health for plants, vines and soil. In fact, Biosol was developed much in the same way as slow release vitamins were for humans. Biosol's slow release formula will not burn seed or existing vegetation and does not require watering after the application, but watering is required to activate Biosol. Nutrients are released continuously throughout the growing cycle, reducing maintenance costs associated with faster releasing fertilizers, which require numerous applications. Because of the well balanced organic content, nutrients are more readily available for root absorption, rather than being bound in the soil. One key factor of Biosol is its ability to promote a healthy balance of microbes, insuring the long-term health of your plants.

BIOSOL

Costs Less to Use

One of the primary benefits of Biosol is that it requires fewer resources to use. Its unusually rich blend of natural plant nutrients and vitamins requires only one to two applications per year. We encourage you to compare annual costs, including labor with other leading fertilizer brands, organic, synthetic or mineral. Since you are building your soil nutrients every time you fertilize with Biosol, you will receive benefits from Biosol's quality organic material and nutrients year after year.



Composition

Biosol is the premier organic and environmentally balanced fertilizer on the market today. It is a by-product of penicillin fermentation and consists of:

- 96% Fungal and bacteria mycelium-A fermentation of combined raw materials including soybean meal, cottonseed meal, sucrose, lactose, trace elements and vitamins
- 3% water
- 1% Potassium-magnesia from a natural source

Biosol is without animal by products, derived proteins and the trace metal content is within tolerance limits for animal feed. Biosol is certified for organic farming in California, Washington, Oregon and Massachusetts.

This unique blend of nutrients enables Biosol to stimulate root development, allowing plants of all kinds to fully absorb essential nutrients for longevity

Nutrient Content

BIOSOL 6-1-1

Organic Substance.....	>90%
Carbon/Nitrogen ratio.....	6:1
Nitrogen (total).....	6%
Nitrogen (water soluble).....	0.5%
Phosphorus (P202).....	1-2%
Potash (K20).....	1%
Ph Level.....	4

Biosol enriches the soil, enhances the volume of positive microbial biomass and promotes the formation of humus, all of which results in a healthier and stronger plant. Biosol has a harmless, typical fungal smell that disappears a few days after application.



Usable Applications

Biosol is a proven product for enhancing all types of vegetation in spite of the terrain. Superior results have been achieved in vineyards around the world, along with agricultural farming, fruit, vegetable, corn, cash crops, horticulture, wood and forest cultivation, revegetation of ski runs and slopes and many different forms of commercial and recreational landscaping (playgrounds, sports turf and lawns etc..)

Sterilized and FREE of Weed Seeds

All Natural

Viticulture Experiments

- 1988-1994 Viticulture Experiments with Biosol, Prof. Solar Institute of soil science and geological engineering, University of Agriculture, Vienna
- 1995-1998 Examinations of the medium-term effect of two Humus fertilizers on soil and vine, school of vine growing, Wiener StraBe 74 3400 Klosterneuburg/Austria
- 1998-2001 Evaluation of Biosol and Biosol Mix fertilizers on wine grape vines, Glenn McGourty, Viticulture and Plant Science Advisor UCCE Mendocino and Lake Counties, January, 2002

During the thirteen years of these three experiments and trials, Biosol was proven to increase sugar yields in the grapes. The average yearly sugar yield during these trials and experiments was approximately a 13% increase.

Below are areas of the world where Biosol is currently used in Viticulture



- * Burgund, France
- * South Tyrol, Italy
- * Lower Austria, Austria
- * Nordrhein-Westfahlen, Germany
- * Eger, Tojaj, Palaton, Hungary

Agricultural Trial Results and Experiences

Biosol feeds plants and is responsible for higher crop yield in a natural way. Biosol improves soil humus content, makes plants more disease resistant, increases the hygiene of the soil, strengthens microbial processes, increases the rooting and improves the biological quality and taste of the food. Many of these qualities were approved in practice. All these mentioned facts are scientifically proven.

- Biosol provides disease resistance within plants. This was proven on tomatoes, which were resistant against the fungus *Phytophthora infestans*.
Mösinger, Agrobiologic Test Station, Witterswil Switzerland and Naschberger, Biochemie GmbH, Kundl/Austria, 1996.
- Organic fertilizers of microbial origin enhance growth and reduce infection by *Fusarium Moniliforme* of sweet corn.
(J. Gao, B. C. Ben-Daniel, Y. Cohen, *Phytoparasitica* 29 (3): 268, 2001)
- Extracts of killed *Penicillium Chrysogenum* induce resistance against *Fusarium wilt* of melon.
(H. Dong and Y. Cohen *Phytoparasitica* 29 (5): 421-430, 2001)
- Induced Resistance in cotton seedlings against *Fusarium wilt* dried Biomass of *Penicillium Chrysogenum* and its water extract.
(H. Dong and Y. Cohen *Phytoparasitica* 30 (1): 77-87, 2001)
- Biosol improves the internal biological quality of apples. The brands fertilized with Biosol showed the lowest p-value.
(Keppler, *Journal of the Advisory Circle of South Tyrol for Fruit and Vine Growing*, Italy, 1998)
- Biosol largely strengthens rooting. This was also scientifically documented a short time ago within the revegetation of a slope caused by a landslide.
(Daichendt, *Institute for Botany*, University of Salzburg, Austria, 2000)



Fertilizing Young Plants

Proper farming practices should always be followed. It is very important that Biosol is spread on the soil surface. If you want to plant young green plants, add Biosol to the soil at least two weeks before planting. This is especially important with tomatoes and peppers. When topically fertilizing young green plants, spread the fertilizer around the drip line of the plant.

organic

