

: A New Technology To Enhance Organic Nutrient Availability For Improved Crop Production

BIO Gold is a concentrated liquid microbiological soil inoculant that contains free-living soil microbes. It provides living bacteria that allows plants to more completely take up nutrients. BIO Gold also has the ability to fix atmospheric nitrogen, making it available to plants.

BIO Gold microbials are a variety of aerobic and anaerobic microorganisms. BIO Gold is a 100% natural organic liquid concentrate that is environmentally safe. A cost effective organic product, BIO Gold will nourish and improve the soil so plants grow healthy and produce higher yields. Nutrients released by BIO Gold are done slowly and naturally allowing gradual uptake throughout the growing season.



Frequently Asked Questions:

1) What will BIO Gold do for soil pH?

If soil pH is too high or too low, nutrients will be tied up and unavailable to plants. BIO Gold balances soil pH so nutrients are readily available to growing plants.

2) What is the best way to apply BIO Gold?

BIO Gold can be applied prior to planting, during tillage, during planting, or after the plants are growing.

3) Should soil be tilled before applying BIO Gold?

Tillage isn't absolutely necessary, but lightly tilled soil will increase exposed surface area, when BIO Gold is applied, the microorganisms will disperse and begin to improve the soil while fixing Nitrogen for plant uptake.

4) Can BIO Gold be applied after the crop has started?

Yes. BIO Gold can be applied as a side dress after the crop is growing. If BIO Gold was used before planting, an additional 5 gallons of activated product may be applied during the growing season.

5) What happens after repeated use of BIO Gold?

BIO Gold increases organic matter over time. The richness and vitality of the soil will be evident through better tilth and aeration. Clodding and crusting will be reduced and the soil's pH will be brought into balance for maximum crop growth. Soil borne disease and insect pressure may be reduced.

6) What beneficial side effects occur with BIO Gold?

In many cases a crop grown with BIO Gold will mature earlier because nutrients are more readily available. The flavor and shelf life of vegetables will improve because of the balance of nutrients that BIO Gold microorganisms release due to their activity in the soil.

7) Can BIO Gold be mixed with herbicides and pesticides?

BIO Gold can be safely mixed with most herbicides and pesticides. Always follow label instructions for best results.

8) Will BIO Gold detoxify soil?

Using BIO Gold helps eliminate toxic runoff and aids in the decomposition of herbicides, which helps prevent chemicals from accumulating in the soil.

9) What does BIO Gold do for soil tilth?

BIO Gold improves soil tilth and contributes to the buffering capacity of the soil. It also improves water-holding capacity and increases the availability of nutrients.

10) Is BIO Gold safe for organic farming?

Yes. BIO Gold has been certified organic by JAS, USDA NOP, and EU.



Improve Plant Production by Improving Microbial Life in the Soil



- Helps plants grow healthy and strong
- Has shown less synthetic Nitrogen needs
- Promotes better soil tilth
- 100% natural organic
- Adds microbial life to the soil
- Ideal for conventional and organic production
- Enhances all soil types and all crops

Consider BIO Gold® an Investment in Better Soil and Better Crops

BIO Gold is designed to overcome the limitations of single nutrient approaches that producers have relied on for years.

BIO Gold stimulates microbes to work simultaneously with the plant to improve cation exchange, which makes unavailable nutrients available.

The result? Better plant health, better plant reproduction, better yields.

BIO Gold Offers a Long List of Important Benefits For Agricultural Use:

- Has shown less synthetic nitrogen needs
- Improves nutrient uptake
- Improves plant health
- Has shown to improve disease resistance
- Converts atmospheric Nitrogen for plant use.
- Helps balance soil pH
- Increases organic matter in the soil
- Helps reduce soil crusting
- Promotes deep root penetration
- Works for all soil types
- Works on agricultural crops, pastures, turf and trees

For lawns, gardens, houseplants, trees and shrubs

- Promotes faster germination
- Feeds plants uniformly throughout growth cycle
- Have shown to improve disease resistance
- Improves flowering.
- Has shown to improve fruiting
- BIO Gold has shown to help balance soil pH.
- Increases plant sugar for better health and growth
- Encourages deeper root growth
- Helps to reduce soil crusting
- Absolutely safe around children and pets
- Easy to apply with pump-up sprayer or garden hose-end sprayer
- Has shown to improve taste of vegetables and fruits

BIO Gold Creates Better Soil Tilth

Microorganisms are a vital part of soil balance and BIO Gold significantly aids in achieving that balance. The microorganisms found in BIO Gold feed on organic matter and form glue-like material called polysaccharides. These complex sugars connect individual soil particles together creating larger particles or aggregates. This process gives soil its soft, crumbly tilth and its pleasant fragrance.



BIO Gold Reduces Compaction

Compacted soil prevents the proper transfer of soil gases and keeps roots growing unimpeded. At least one-half of the soil/plant fertility cycle may not be working if soil is compacted. Without oxygen in the soil, humus formation does not happen. Over time, using BIO Gold will improve soil tilth, increase soil aggregation and break up compaction.

BIO Gold Helps Plants Fix Nitrogen

Nitrogen makes up about 78% of the air around us, the major component of the earth's atmosphere. BIO Gold contains microorganisms that have the ability to fix nitrogen from the air, attach it to the soil in nitrate form and make it usable to the plant. By using BIO Gold we can reduce our synthetic nitrogen by as much as 50%.



BIO Gold Improves Microlife in the Soil

In the soil, BIO Gold microbes metabolize organic substances which complex and chelate nutrients. Additional organic substances and acids are produced by the microorganisms, which make nutrients such as phosphorus and potassium more available.

BIO Gold Produces Natural Beneficial Enzymes

Once active in the soil, BIO Gold produces enzymes that accelerate natural biological functions and aid plant growth. These enzymes promote faster germination, better flowering, improved health and greater production. They also help decompose crop residue and turn it into organic matter.

BIO Gold contains organic matter and microorganisms that help the soil produce humates.

BIO Gold also produces hormones such as auxins, indoleacetic acid, and gibberellins (gibberellic acid) with a natural control that regulates plant growth..

BIO Gold Helps Retain Moisture

BIO Gold is hydrolytic and during its production of food, hydrogen is released and bonded with oxygen molecules to produce small amounts of moisture. So, during hot and dry conditions, there is additional moisture available for the plants because of improved water holding capacity.

BIO Gold Balances Soil pH

• One of the main benefits from using BIO Gold is to help balance the soil pH. BIO-ONE works in all types of soils, on any agricultural crops, on horticultural plants, bushes, trees, pastures and turf.

• BIO Gold has been certified organic by JAS, USDA NOP and EU.

• BIO Gold is an all-natural product derived from plant matter that contains all the trace elements that exist in growing plants. It is a natural "slow release product" that provides nutrients to plants when they need them.

• Unlike High Salt Synthetic Products, BIO Gold is Not Harmful to Soil Microlife

BIO Gold is Easy to Apply

SPRING: Apply a minimum of 10 gallons of activated BIO Gold solution per acre with a field cultivator, harrow, or strip till machine. At planting, use 3 gallons of BIO Gold solution in furrow with one gallon of starter fertilizer or 4 to 5 gallons if phosphorous and potash is not needed.

FALL: Apply a minimum of 10 gallons of activated BIO Gold solution per acre and work it in with a chisel plow, harrow or strip till machine. Air temperature must be 50 degrees or greater for application. Bacteria will start multiplying in the fall, slow down during the winter when the soil cools, and re-generate in the spring when the soil warms above 50 degrees.

VEGETABLES, SMALL GRAINS AND FORAGES: Apply a minimum of 10 gallons of activated BIO Gold solution per acre to the soil and work it in before seeding. A BIO-ONE solution may be sprayed onto forages and small grains until the crop is about 6" tall.

GRASS: Grass can be sprayed with BIO Gold at four -week intervals from early spring growth until early summer. Re-apply in the fall after heat subsides to encourage root development.