

Advanced BioTech

Developer of BioWorld Products

Now there is a Better Way to Grow Crops

- Improve soils, plants and seedlings
- Special bio-fertilizer for all applications
- Higher yield with premium quality

One of the best products ever for Agriculture



Also available from BioWorld Products

- **Bioremediation Oil Spill Cleanup**
- **Wastewater Treatment Products**
- **Odor Control Products and Equipment**
- **Safe Algae Control Products**

- The Premier Technology in Soil Microbiology

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Increase Crop Yield by Improving Soil

*New product successfully improves
soil and crops worldwide*



MultiFIX™, a biotech formulated liquid, provides a substrate consisting of the proper nutrients, vitamins, minerals, and other compounds essential for healthy soil microorganisms and plants. As the microbes reproduce and thrive, the soil is rejuvenated releasing tied-up bulk nutrients and trace elements to produce tasty, nutritious, high yielding crops.

MultiFIX™ enhances other inputs to reward growers with numerous benefits including:

- *More microbial activity and humus in soil*
- *Improved plant root development*
- *Increased nutrient conversion and uptake*
- *Accelerated plant growth and vigor*
- *Improved soil tilth and structure*
- *Better pH balance in the soil*
- *Reduced erosion and compaction*
- *Rapid breakdown of crop residue*
- *Larger yields and earlier maturity*
- *Better quality, higher nutrient value*
- *Greater water penetration / holding capacity*
- *Less stress, disease, pest and weed pressure*
- *Fewer nematodes and phylloxera*
- *Improved results with herbicides / fertilizers*

Scientific research plus testimonial letters from satisfied growers prove the effectiveness of MultiFIX™ in producing top quality, high yielding crops. The main result...increased income.

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- *Easy to apply with fertilizers, herbicides or irrigation systems.*
- *For all crops including: Row Crops, Field Crops, Fruit Trees, Nut Trees, Vineyards, New Orchards, Nurseries, Flowers, Ornamentals, etc.*
- *Also great for Golf Courses, Sports Turf, Landscape, Gardens and Houseplants.*
- *Promoted by the U.S. Department of Commerce and the State of California for international use.*

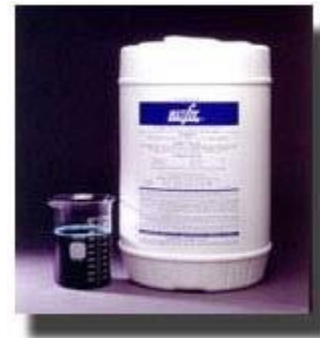


One of the superior products developed and manufactured by:

MULTIFIX™ TECHNOLOGY

Why use MultiFIX™?

Organic matter supplies the microorganisms with the majority of their nutrients. If the organic matter in the soil is in short supply, the micro flora is minute and inactive. On the other hand, if the soil is high in organic matter. The soil is rich in nutrient and the microorganisms are capable of activity and reproduction.



Generally, the majority of agricultural soils today lack the necessary percentage of organic matter required to sustain a large microbial population. In addition, chemical applications such as herbicides, pesticides, fumigants and certain fertilizers limit the size and activity of the soil's microbial population. By supplementing unique products and by-products of organic matter, such as the specialized nutrients found in MultiFIX™, soil microbes are capable of exceptional reproduction and activity. Their processes of decomposition and nutrient conversion aren't stressed. In fact, when MultiFIX™ is used in accordance with the recommended applications, results are always prevalent. MultiFIX™ is "one of the best products ever developed" in agriculture to improve soils, plants and crops.

Microbial Activity is Important

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The importance of microbial activity should be observed closely. Microbes are not only responsible for the degradation of organic matter, but play an important role in plant nutrition. Nutrients are continuously recharged by microbial recycling. Nutrients enter the plant as elements or ions and eventually return to the environment as elements through microbial biodegradation. Microbes are largely responsible for converting nutrients, i.e. making nutrients available for plant use. Also the numerous free living bacteria and associations between bacteria and higher plants have the capacity to reduce atmospheric N₂ to ammonia (NH₃). Furthermore, oxidized sulfur forms and other essentials for plant life must first be reduced by microbes before plant utilization. They are either created or recycled through active microbial degradation, also know as nutrient conversion.

Application of MultiFIX™

MultiFIX™ should be applied several times per year depending on the crop. MultiFIX™ is applied at 1 pint to 3 gallons per crop acre (1.52 to 28 liters per hectare) per application. MultiFIX™ can be tank mixed with fertilizers, herbicides or other pesticides. (A jar test is recommended when mixing agricultural products.) MultiFIX™ requires no agitation. MultiFIX™ may also be applied safely through micro-irrigation systems drip-sprinkler systems or flood irrigation. Broadcast may have advantages over banding. Mechanical or irrigation/rainfall incorporation is recommended within three days of application. (Incorporate sooner in higher temps.) MultiFIX™ is a liquid nutrient, ten pounds per gallon (1.2 kilograms per liter). MultiFIX™ Soil and Crop Enhancer is a specially formulated liquid that provides the proper bioenhancement nutrients, vitamins, minerals, and other compounds required by soil microbes and plants. As billions of microbes rapidly reproduce and thrive, the soil is rejuvenated. Healthy soil produces improved plant health, better nutrient conversion and uptake, and increased crop quality and yields.

Scientific research plus testimonials from satisfied growers prove the effectiveness of MultiFIX™ to significantly enhance other inputs. For all crops including row crops, field crops, fruit trees, nut trees, vineyards, nursery stock, flowers, and ornamentals. Also, great for golf courses, sports turf, landscape, gardens, and houseplants. MultiFIX™ is easily applied with fertilizers, herbicides, or irrigation systems.

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MultiFIX™ Soil and Crop Enhancer

#25054—5-gallon/19-liter unit (53 pounds)

#25243—24 x 5-gallon/19-liter units on pallet (1,325 pounds)

#25250—250-gallon/950-liter bulk unit (2,700 pounds)



MultiFIX™ Soil and Crop Enhancer Specialty Blend

#28054—5-gallon/19-liter unit (53 pounds)

#28243—24 x 5-gallon/19-liter units on pallet (1,325 pounds)

#28250—250-gallon/950-liter bulk unit (2,700 pounds)

Composition and Physical Properties

Bioenhancement Compounds, Vitamins, Minerals, Chelated Micronutrients, Amino Acids, Polysaccharides, Esters, Oils, Alcohols, Fats, Organic Acids, Proteins, Enzymes, Plant Nutrients.

Total Nitrogen	15.0%	pH:	5.5 – 6.5 at 25°C
Iron (Fe) Chelated	0.10%	Boiling Point:	100°C
Total Phosphorous	5.0%	Freezing Point:	1.0°C
Zinc (Zn) Chelated	0.05%	Appearance:	Blue
Total Potassium	5.0%	Non-Odor:	Vitamin Scent
hazardous material			

MultiFIX™ should be applied several times per year. MultiFIX™ can be tank mixed with fertilizers or herbicides and safely applied through micro irrigation systems, drip-sprinkler systems, or flood irrigation. MultiFIX™ is a superior product at a reasonable price.

Examples of the results obtained with MultiFIX™

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Black-eyed Beans



Black-eyed beans control – notice the weeds and the plants are still part green.



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Black-eyed beans with MultiFIX™ applied pre-plant. The crop matured 6 days earlier than the control and yielded 13% more crop with a high grade.

Strawberry Field

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MultiFIX



Control



Control

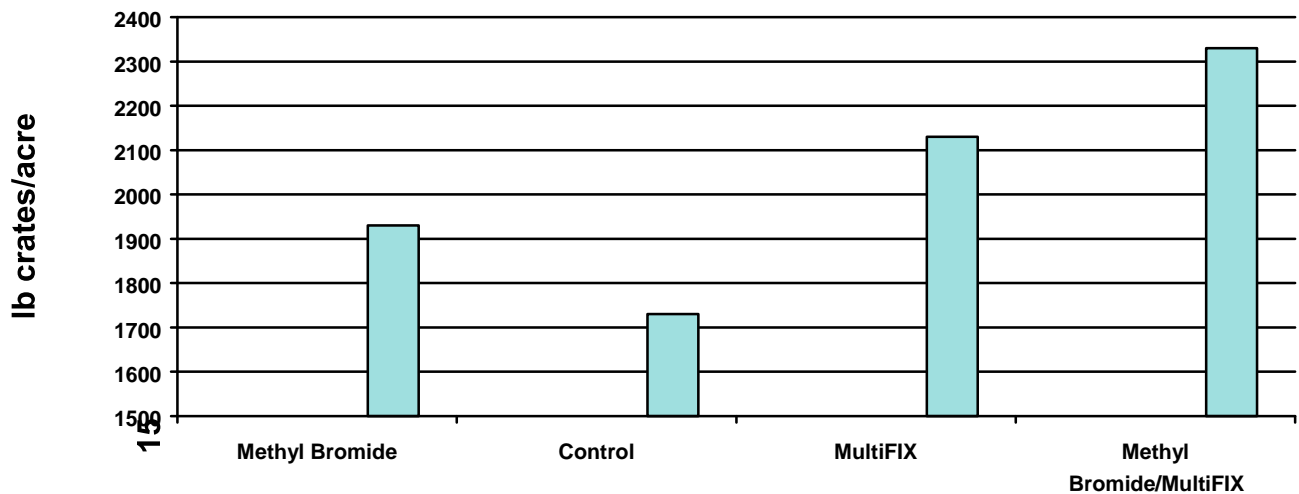
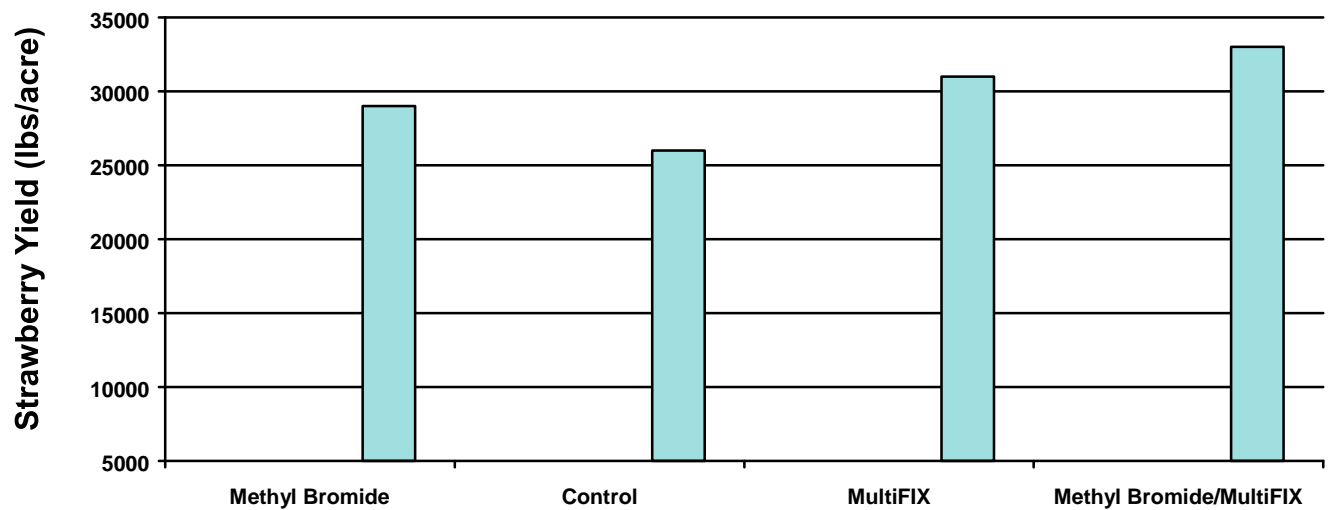
MultiFIX



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MultiFIX™ STRAWBERRY TRIAL RESULTS



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Kiwi Vines – Newly Planted



Neighbor

Same variety and plant date

Untreated



MultiFIX™ Grower

Same variety and plant date MultiFIX™ Treated



Facing South

Row at end of truck is only

Untreated row

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MultiFIX™ applied at 1 gallon per acre each year

MultiFIX™

Control

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Affects of MultiFIX™ ON VEGETABLES

With MultiFIX™ as the only variable on numerous trials, vegetables have produced between \$200 to \$1500 per acre additional net income with increases in yield and quality. Variety and yearly market price dictate income. A 6% to 15% additional yield is a realistic expectation with MultiFIX™ added to the fertility program and in many situations; the MultiFIX™ has produced yield increases of 25% to 40% on various vegetables.

BELL/HOT PEPPERS

B. Farms California USA– reduced 8 weeks down to 6 weeks seed to transplant with MultiFIX™.

BROCCOLI

B. Farms California USA- reduced 35 to 38 days down to 29-30 days seed to transplant with MultiFIX™.

Earlier maturity was present in vegetables treated with MultiFIX™. First picking accomplished 10 to 15 days sooner than the non-treated area. Vegetables maintain excellent quality longer during shipping.

Some Grower Comments:

1. **Tomatoes** : Control – 122.8 tonnes/Ha MultiFIX™ treated – 137.1 tonnes/Ha
2. **Grapes**: Sugar Increase 10.4% Skin is tougher and more elastic. Bunch rot is much less.
3. **Nectarines**: Sugar Increase 6.0%
4. **Kiwi Fruit**: Sugar Increase 38.0%
5. **Chou Mollier**: Protein Increase 66.0%
6. **Swedes**: Protein Increase 92.0%
7. **Maize**: Protein Increase Gisbore 10.0%
8. **Maize**: Protein Increase Opotiki 11.0%
9. **Maize**: Protein Increase Maihihi 11.0%
10. **Wheat**: Control – 34 bu/acre MultiFIX™ treated – 46 bu/acre 35% increase
11. **Carrots**: Harvested 10 days ahead of the untreated carrots. 2-3 inches larger.
12. **Broccoli**: Beautiful green color. Largest heads ever produced on our ranch (8 – 10 inches).

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13. **Lemon Grower:** 63rd out of 65 growers quality and production – 2 years later with MultiFIX™ 7th out of 65 growers.
14. **Olive:** Skin tougher on olives and more green

Hundreds of trials and much more data in 7 file cabinets at our facility!