


MicroLifeTM
ORGANIC BIOLOGICAL FERTILIZERS

SIMPLY THE BEST IN THE WORLD!



**BUYERS GUIDE &
ORGANIC MANUAL**

www.microlifefertilizer.com

MICROLIFE

Since 1988, we have been making professional grade MicroLife Organic Biological Fertilizers. Through the decades, MicroLife has traveled across the world, is used in dozens of states, hundreds of cities & thousands upon thousands of horticulture and agriculture properties. The results are always great performance, improved soils & healthy plants.



MicroLife is constantly innovating to bring you the very best in soil & plant nutrition. MicroLife is based on the latest & proven science. The nutritional spreadsheets we use are unparalleled in the world. Our complete formulas can be easily found on our website.

www.microlifefertilizer.com

Please feel free to call, email or come by anytime to visit with us about your Organic program & the use of MicroLife.

WHY MICROLIFE?

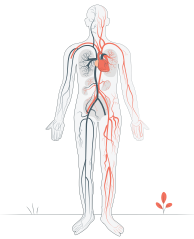
Because we truly value your success and well-being. We take great care to make the best products possible. Every ingredient used must benefit both the soil microbes and the plants.

HEALTHY SOILS, HEALTHY PLANTS, AND HEALTHY PEOPLE ARE INSEPARABLE.

3 Core Principles of MicroLife



FOLLOW NATURAL LAW: Working with creation's design. How does nature work when humans are not around? Operating within the flow of natural forces and not fighting them. To battle Mother Nature is folly, and expensive and always ends badly. Nature wants you to be prosperous.



FOLLOW THE LAWS OF NUTRITION: The laws of nutrition clearly state that 'When you feed any organism the highest nutrition possible, that organism hits optimal performance and with the least amount of problems'. Epigenetics, be it humans, plants or microbes, you can determine destiny by what you do.



FEED THE SOIL & THE PLANT: The foundation of civilization is built on soil microbes. Without the beneficial microbes that inhabit the soil and bond with the plants, plants would not exist, period. Plants know this and willingly feed their microbes up to 80% of their manufactured food. Organics recognize this and always promotes a healthy soil ecosystem. 'To the soil, do no harm'.

LOOK AT THE INGREDIENTS WE USE:

Kelp	Cottonseed Meal	Iron Sulfate	Corn Meal
Humates	Wheat Middling's	Yucca	Amino Acid Complex
Fish	Potassium Sulfate	Rock Phosphate	Brewers Yeast
Molasses	K-Mag	Bone Meal	Vitamins
Alfalfa	Mycorrhizal Fungi	Soy Meal	Rhizobial Microbes

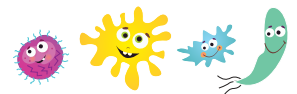
WHAT WE DON'T USE:

Poultry or animal manure, and no sewage sludge



MORE MICROBES THAN ANY OTHER FERTILIZER.

3.6 Trillion Beneficial Microbes per bag & 76 different species



COMPLETELY SAFE

MicroLife is completely safe, all clean ingredients, 100% Slow Release & will not burn



MICROLIFE SAVES WATER USE

By improving the soil & building bigger roots, MicroLife will help you reduce your water by as much as 25% the first year



SOIL HEALTH

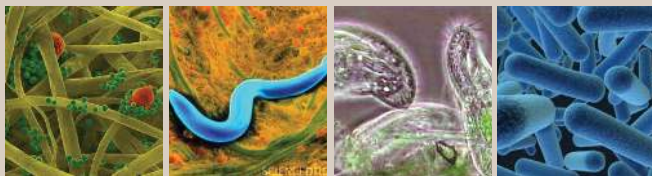
Organic programs improve soils and strengthen plants.
Chemical programs destroy soils and weaken plants.

“A NATION THAT DESTROYS ITS SOIL DESTROYS ITSELF”

- Franklin D. Roosevelt

The Organic approach recognizes that our soils need an infinite number of individual life forms called microorganisms.

We want large numbers of these guys in our soil.



Fungi Nematodes Protozoa Bacteria

Look at the contents that one teaspoon of healthy soil will contain



930,000,000 Bacteria
1 mile of Fungal Hyphae
100,000 Protozoa
500 Beneficial Nematodes

The vast majority of these life forms are good guys and the plants have a symbiotic relationship with them.

When we have a thriving culture of microbes we get enhanced plant growth and conservation of resources.

The microbes will **self manufacture** plant fertilizers, natural insecticides, biological fungicides and suppress weeds all to the benefit of the plants.

The beneficial microbes are easy to grow in your soils. They just need Oxygen, Carbon and Minerals.

What hurts their existence are chemical pesticides and chemical fertilizers. The chemical approach assumes that microbes are unimportant, and pushes cheap, high salt fertilizers. These high salt fertilizers destroy soil microbes which then predicate the need for chemical pesticides because the plants no longer have a functioning immune system.



The nutrition derived from chemical fertilizers can be compared to the nutrition that humans get from fast food.

FYI most chemical a salt index of 99.9%. Any salt index of 69.0% is considered injurious to plants.

Organic programs are geared to maximize **soils & plants health.**

SOIL CHEMISTRY

Soils are made up of mainly minerals, with space for air and water. How we manage our nutrients will affect soil structure, plant performance and soil microbiology. When you can it is best to start with an Albrecht Soil Test to determine a baseline and add the appropriate amendments to correct deficiencies.

SOIL BASICS

By doing this, your soil will have greater nutrient availability, improved soil structure and greater microbial growth potential.

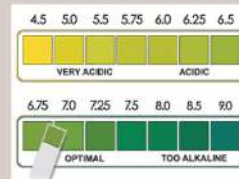
3%-5%



5:1
ratio

pH between

6.0-7.0



Regularly add



+ rich array of minerals

WHY ORGANICS

THE GOAL: HEALTHY SOILS, HEALTHY PLANTS, HEALTHY PEOPLE.



When a biological system is healthy, less resources are needed to maintain that system. That which is biologically correct is always the most economical. Basically, why fight nature? It is much saner and easier to work with the biological systems that have been in place for millions of years. We know that Organic Landscape and Gardening provide us with many benefits that chemical programs cannot. Just to name a few... When using MicroLife.

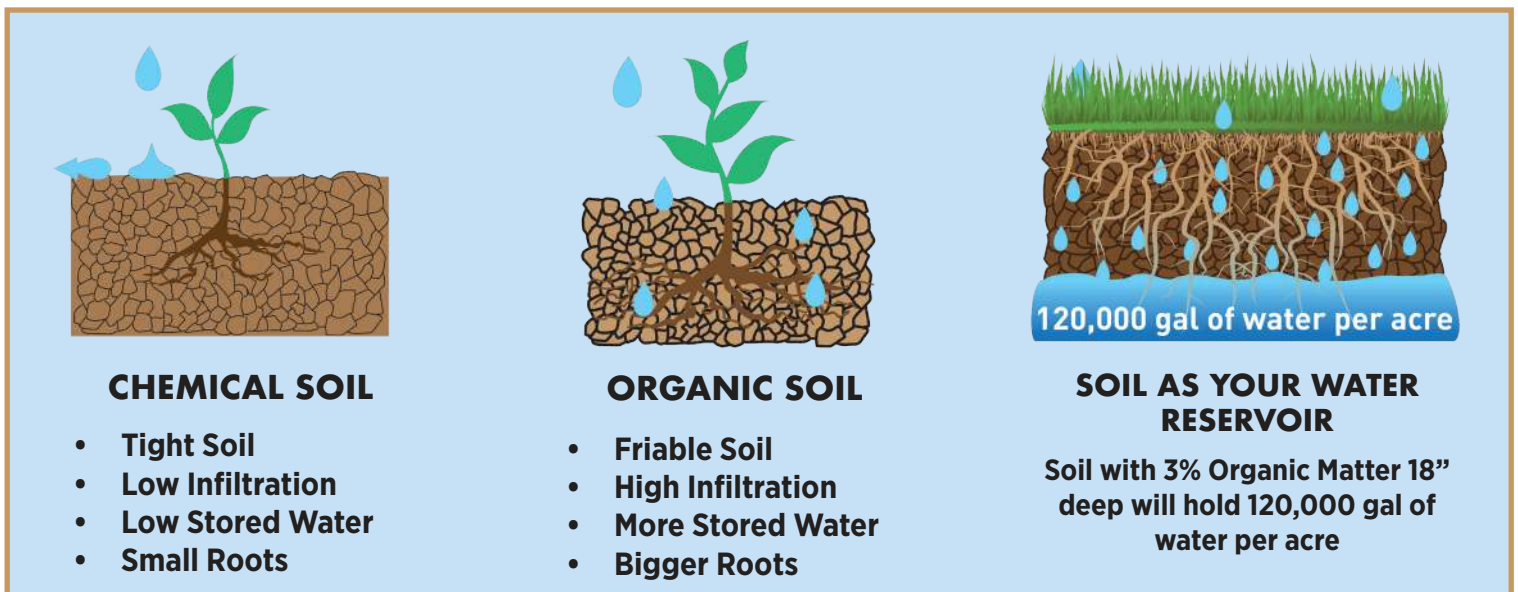
- 1) Much less water is used & is not polluted
- 2) Plant are fed the highest form of nutrition, so we have greater beauty & yields
- 3) Plants grow more symmetrically so there is less mowing & pruning
- 4) Plants are healthier so less pesticides are needed
- 5) There are no human or animal health illness caused and everything is safe
- 6) Less plant replacements
- 7) More nutritious foods

We see for many reasons on just an economical level that it makes good dollars and sense to go Organic. Build your landscape & garden right the first time and use good quality Organics through out.

WATER MANAGEMENT

WATER COSTS ARE DOUBLED UNDER CHEMICAL CARE

Chemical fertilizers do not improve soil structure, Organics do! By going Organic we can save \$3,000 per acre per year in water costs & that's after the Organic fertilizers have been paid for. Here's how it works...



One major benefit by going Organic is a huge reduction in water use. Quality Organic fertilizers & amendments will improve the soils' water infiltration rate, the soils' water holding capacity & the plant root mass size as seen in the figures above.

To further maximize healthy plant growth & to conserve water it is critical to have an efficient irrigation design & installation. Then have a cohesive irrigation schedule & correct run times based on the soils' water infiltration rates and plant needs.

PRODUCT GUIDE

For more complete descriptions please go to www.microlifefertilizer.com

ORGANIC FERTILIZERS, NUTRITION & BIOLOGICAL AMENDMENTS



MicroLife 6-2-4 All Organic, Biological Fertilizer

Multi-purpose, all Turfgrasses, Ornamentals, Flowers and Vegetables

Homogenized and granulated, 100 + nutrients, natural plant stimulators and hormones. Plus billions and billions of beneficial soil microbes including Mycorrhizal fungi.

Sizes available: 7 lb • 40 lb • Ton (50 - 40 lb Bags)



MicroLife Humates Plus 0-0-4 All Organic, Biological Fertilizer

All Turfgrasses and Ornamentals 'Concentrated Compost in a Bag'

Especially designed for all turfgrasses. An amazing array of Nitrogen fixing bacterium, Humates, Potassium, Kelp, sugars, wetting agent, 100 + minerals with billions and billions of beneficial microbes including Mycorrhizal fungi.

Sizes available: 9 lb • 40 lb • Ton (50 - 40 lb Bags)



MicroLife Acidifier 6-2-4 All Organic, Biological Fertilizer

Azaleas, Camellias, Roses and all Acid Loving Plants, Turfgrass

Made to the MicroLife standards but with extra Sulfur for acidity and Humates for a rich Organic environment. Produces spectacular results. Inoculated with billions and billions of beneficial soil microbes including Mycorrhizal fungi.

Sizes available: 7 lb • 40 lb • Ton (50 - 40 lb Bags)



MicroLife Ultimate 8-4-6 All Organic, Biological Fertilizer

New installations, Top dressing of Ornamentals, Flowers and Food Crops, Turfgrass

Meal form for quick response. Contains extra rock minerals and Humates plus all the MicroLife goodness. Inoculated with billions and billions of beneficial soil microbes including Mycorrhizal fungi.

Sizes available: 7 lb • 40 lb • Ton (50 - 40 lb bags)



MicroLife Citrus 6-2-4 All Organic, Biological Fertilizer

All Citrus and Fruit

We called on the best brains in the Houston area for their knowledge of Citrus and Fruit nutritional needs and came up with MicroLife Citrus 6-2-4. It starts with our flagship MicroLife 6-2-4 then we changed the nutritional profile slightly to target address all Citrus and Fruit. Contains our bio inoculant package.

Sizes available: 7 lb • 40 lb • Ton (50 - 40 lb Bags)

ORGANIC FERTILIZERS, NUTRITION & BIOLOGICAL AMENDMENTS



MicroLife Hybrid 20-0-5 All Organic Fertilizer

All Turfgrasses, Ornamentals and Containers

MicroLife Hybrid uses Nutralene as the Nitrogen source. Nutralene is considered a synthetic Organic because of its covalent carbon bond that benefits soil microbes. This product will help people who want to 'Go Green' but are watching costs. Contains our powerful bio inoculant package.

Sizes available: 20 lb • 50 lb • Ton (100 - 20 lb Bags or 40 - 50 lb Bags)



MicroLife 'Brown Patch' 5-1-3 All Organic, Biological Fertilizer

Turfgrasses and all plants prone to disease

A combination of MicroLife Fertilizer and a specialized biological inoculant/fungicide. You can fertilize, restore soil health and fight soil diseases all at the same time. Contains very specialized anti-disease microorganisms.

Sizes Available: 7lb • 40 lb • Ton (50 - 40 lb Bags)



MicroGro Bio Inoculant

Soil Diseases

Use MicroGro Granulars as a preventive or when there is a problem. MicroGro Granulars contain 63 different aggressive 'Anti-Disease' microbial species on a Humate carrier. You will see enhanced plant growth as well.

Sizes available: 9 lb • 25 lb bag • Ton (80 - 25 lb Bags)



MicroLife Mycorrhizal Plus

Start 'Em Right

Probiotics that accelerate all plants and improve all soils. Contains 11 different species of Mycorrhizal and 65 different species of beneficial microorganisms all blended with the power houses of Humates, Kelp, Molasses, and Yucca.

Sizes available: 9lb



MicroLife Palms & Tropicals 4-2-4

Fantastic Food for Palms, Tropicals and Hibiscus Plants

Contains extra Potassium, Magnesium, Manganese & Iron... All essential for beautiful & healthy palms, tropicals & hibiscus growth.

Sizes available: 7lb



MicroLife Soil & Plant Energy

Jazz Up Your Soils and Plants

Incredible liquid concentrate that powers up all soils and plants. A carefully balanced combination of Humic Acid and Molasses to provide essential energy to all soil and plants.

Sizes available: Qt • Case 12 Qts/cs

ORGANIC FERTILIZERS, NUTRITION & BIOLOGICAL AMENDMENTS



Super Seaweed Liquid 0-0-.03 Bio/Root Stimulant & Mineralizer

Plant Health Tonic for All Turfgrasses, Ornamentals, Flowers, & Veggies

Primarily cold processed Ecklonia Maxima Kelp with Blackstrap Molasses, Humic Acid, Fulvic Acid & Fish Hydrolysate. Excellent source of minerals, vitamins, plant stimulators, sugars & plant hormones. Use as foliar spray & as root stimulator.

Sizes available: Qt • Gal • Case 12 Qts/cs • Gal 4/cs • 55 Gal Drum



Ocean Harvest 4-2-3 Liquid Organic Fertilizer & Bio-Stimulant

Foliar Nutritional Spray for All Plants

Superb combination of Fish Hydrolysate, Ecklonia Maxima Kelp, Blackstrap Molasses, Humic Acid and Fulvic Acid. Outstanding plant food, mineralizer, microbe enhancer & root stimulator. Smells great too! Highly concentrated.

Sizes available: Qt • Gal • Case 12 Qts/cs • Gal 4/cs • 55 Gal Drum



Maximum Blooms 3-8-3 Liquid Organic Bloom Producer

Flowers and anything that Blooms, Blossoms or Buds

'Blooms in a Bottle'. Specially formulated to enhance flower production on annual color plants. Best to use in conjunction with granular application of a MicroLife Fertilizer. Spray monthly during the blooming cycle.

Sizes available: Qt • Gal • Case 12 Qts/cs • Gal 4/cs • 55 Gal Drum



Bio Matrix 7-1-3 Liquid Organic Fertilizer with Microbes

House Plants & All Plants in General

High strength liquid Organic fertilizer with stabilized microbial inoculation. Contains Organic Amino Acids, Kelp, Humic Acid & 39 strains of beneficial soil and plant microbes. Use as foliar fertilizer, fertigation, supplement and/or plant enhancement.

Sizes available: Qt • Gal • Case 12 Qts/cs • Gal 4/cs • 55 Gal Drum



Humic Acid Organic Concentrate

Liquid carbon for plants and soils

This is the liquid extract of our Granular Humates & naturally contains Iron, Sulfur plus 61 micro-nutrients. Excellent for restoring soil health and for chelating & plant nutrients.

Sizes available: Gal • Gal 4/cs • 55 Gal Drum



Molasses Liquid Organic Concentrate

Plant Energy, Microbial Food, Quick Plant Stimulation

This is a simple and remarkable product that serves multiple functions. Molasses will provide Nitrogen, Potassium, Sulfur and Iron and trace minerals. More importantly though it will provide positive energy to plants and soils plus discourage pest insects.

Sizes available: Gal • Gal 4/cs • 55 Gal Drum



Cactus & Succulent 3-7-3

Exceptional Liquid Organic Fertilizer For All Cacti & Succulents

Carefully researched & designed to bring out the best in our little friends. All the bases are covered here to properly feed your awesome cacti & succulents and to support the wonderful microbial soil community.

Sizes available: Qt • Case 12 Qts/cs

ORGANIC FERTILIZERS, NUTRITION & BIOLOGICAL AMENDMENTS



MicroGro Liquid AF

Put Natural Biology to Use for You

Very Powerful, Liquid, LIVE, All Organic Bio-Inoculation to safely and effectively out compete harmful soil and leaf pathogens. Contains 8 extremely dominating beneficial microbes that will live in the soil or on the leaves to provide plant protection. Use as preventative or to solve a problem.

Sizes available: Gal (4 Gal/cs) • 55 gal drum



MicroLife Liquid Humates Plus

Powerful Soil Conditioner, Bio-Stimulant and Plant First Aid

Carefully crafted formula that will quickly restore and improve all soils and plants. Especially good for turfgrass, clay soils and sodic soils.

Sizes available: Gal (4 Gal/cs) • 55 gal drum



JRM Transplant Packs

All Plants Benefit from using JRM Transplant Packs

For all new plant installations, a superb mix of water absorbing/releasing polymers, humates and mycorrhizal fungi. Saves water & build big roots. 1-3 oz pack per caliber inch of tree.

Sizes available: 3 oz pack (Pail of 50) • 3 lb bucket • 5 lb bucket

ORGANIC INSECTICIDES



EcoSMART Granular

A new type of Organic insecticide. Uses essential oils to kill and repel soil pest insects like chinch bugs, fleas and all ants. Completely safe around children and pets.

Sizes available: 10 lb bag (4 bags/cs)



Orange Oil

Essential oil extracted from cold pressed orange peels. Non-selective and is effective against soft bodied insects including fleas and ants plus armored insects like scale. Great repellent against roaches, spiders and scorpions.

Sizes available: Pt (12 Pt/cs)



Mosquito Barrier

Drives mosquitoes out of your area for 3 – 4 weeks. Repels other pest insects as well. Plus puts you in the mood for an Italian festival.

Sizes available: Qt (12 Qts/cs) • Gal (4 Gal/cs)

ORGANIC DISEASE CONTROL

MicroGro Liquid AF



Put Natural Biology to Use for You

Very Powerful, Liquid, LIVE, All Organic Bio-Inoculation to safely and effectively out compete harmful soil and leaf pathogens. Contains 8 extremely dominating beneficial microbes that will live in the soil or on the leaves to provide plant protection. Use as preventative or to solve a problem.

Sizes available: Gal (4 Gal/cs)

Bio Matrix 7-1-3



Bio Fertilizer & Inoculant

The live microbes in this stabilized compost tea suppresses and eliminates destructive leaf diseases. Use as a preventive or cure.

Sizes available: Qt (12 Qts/cs) • Gal (4 Gal/cs) • 55 gal drum

MicroGro Bio Inoculant



Soil Diseases

Use MicroGro Granulars as a preventive or cure. Use for all soil diseases. MicroGro Granulars contain 63 different aggressive 'Anti-Disease' microbial species on a Humate carrier. You will see enhanced plant growth as well.

Sizes available: 9 lb • 25 lb bag • Ton (80 - 25 lb bags)

ORGANIC HERBICIDES

AXXE Broad Spectrum Herbicide



Use to kill a large variety of broadleaf and grassy weeds, non-selective. Very impressive, we have seen great results on a large selection of weeds. The active ingredient is Ammonium Nonanoate. Very safe for you and the environment.

Sizes available: 2.5 gal concentrate

20% Vinegar



Use to kill broadleaf and grassy weeds, non-selective. 20% Vinegar works by shocking the plant and burning foliage. Sometimes 2-3 applications is needed for older weeds.

Sizes available: Gal • 4 Gal/cs

MicroLife Humates Plus 0-0-4 All Organic, Biological Fertilizer



This soil amendment is not a herbicide at all, but changes the soil so less weeds grow.

Sizes available: 9 lb • 40 lb • Ton (50 - 40 lb bags)

FREQUENTLY ASKED QUESTIONS

Q: How did MicroLife come into being?

A: San Jacinto Environmental Supplies, the parent company of MicroLife, started from scratch in 1984 as a new lawn and garden distributor. We were taught the 'chemical way' and were very good at selling the very chemicals we despise today. We quickly realize that the more chemical fertilizers we sold, the more chemical pesticides we sold to the same client. Huh? Something is wrong here. Isn't fertilizer supposed to make plants stronger and with less problems? That is when we discovered that chemical fertilizers are to plants what fast food is to humans ... junk and poisons. In 1986 we started our journey of learning true plant nutrition and that naturally led us to Organics. In 1988 we started manufacturing MicroLife with the same intent then, as we have now ... to make the best plant and soil food in the world.

Q: My dog likes to eat MicroLife. Why?

A: This is our number one question. Our theory is dogs like MicroLife because they know MicroLife is full of the nutrition they need. The list of ingredients MicroLife uses is similar to the list of ingredients that good quality animal food uses, including digestive enzymes. MicroLife is the only fertilizer used at The Houston Zoo and it has their Veterinarian Council seal of approval.

Q: Why is little white fuzz growing on my MicroLife pellets?

A: That is a good sign; it shows that MicroLife is biologically active. Each pellet of MicroLife is rich in nutrition and coated with beneficial microorganisms. The fuzz is the friendly microbes doing their job.

Q: Do I have to water MicroLife after applying?

A: MicroLife will not burn so you do not have to water. But watering MicroLife activates it.

Q: Is MicroLife safe around children and pets?

A: MicroLife is completely safe around all life forms.

Q: MicroLife is more expensive than other fertilizers, why?

A: We believe in feeding our soils and plants the highest nutrition possible. Read our label of ingredients. No other fertilizer includes what we do. Better quality, better results. In the long-run, MicroLife ends up being the cheapest fertilizer. MicroLife yields better plant health, more nutritious food, better soil health, fewer plant problems, reduces pesticide cost, is completely non-toxic, saves on mowing/pruning costs and reduces money spent on water.

Q: What should my broadcast spreader be set on?

A: For MicroLife 6-2-4 set the spreader to wide open and walk moderately fast. For MicroLife Humates Plus open spreader 1/2 open and walk moderately fast. For MicroLife Hybrid open spreader 1/4 open and walk moderately fast.

Q: Does MicroLife ever go bad?

A: As long as you keep MicroLife dry it will keep indefinitely.

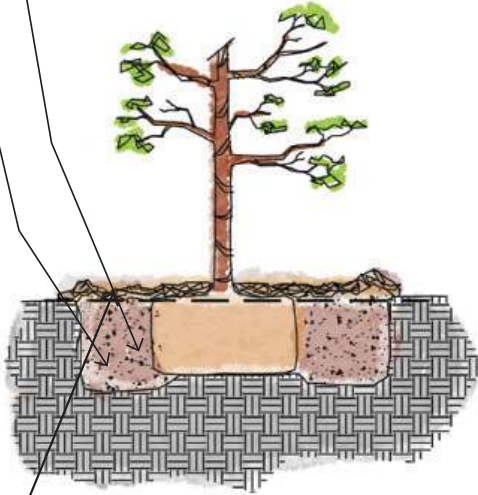
INSTALLATION SPECIFICATIONS

TREE SPECIFICATIONS

At time of planting, add the following around the root system when backfilling

For every 15 gal. size, add 6 oz. **MicroLife Ultimate 8-4-6**

3 oz of JRM Mycorrhizal Tree Transplant per caliber inch.



After backfilling, but before mulching, pour the following around the plant as a new plant/root stimulator

4 oz of **MicroLife Ocean Harvest** mixed with a gal of water. Use 2 gal of mixed solution per 15-gal size

TURFGRASS SPECIFICATIONS

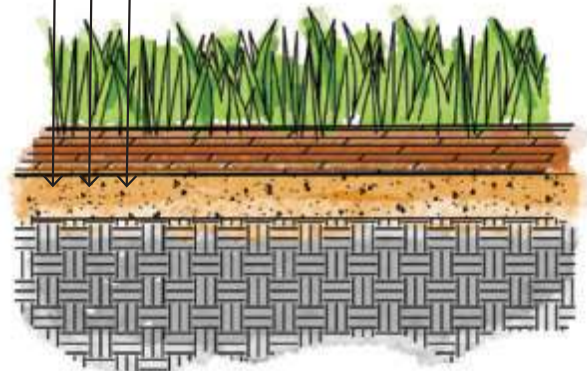
After final grade and before laying sod or spreading seed, apply the following

20 lb of **MicroLife 6-2-4** per 1,000 sq ft

20 lb of **MicroLife Humates Plus** per 1,000 sq ft

After laying sod or spreading seed, foliar spray the entire area with

8 oz of **MicroLife Super Seaweed** mixed with a gal of water. Each gallon of mix to cover 1,000 sq ft



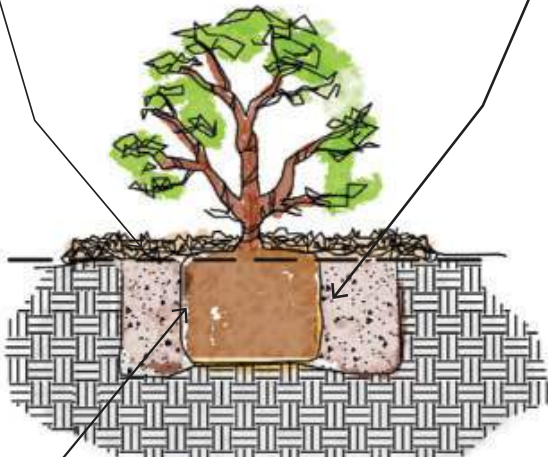
ORNAMENTAL SHRUBS & PERENNIAL SPECIFICATIONS

Mix into the soil to a depth of surface grade to 6" below the following

For every 5 gal. size, add 2 oz. of **MicroLife Ultimate 8-4-6**

After backfilling, but before mulching, pour the following around the plant as a new plant/root stimulator

Add 2 oz of JRM Mycorrhizal Tree Transplant per 5 Gal size



2 oz of **MicroLife Ocean Harvest** mixed with a gallon of water as a new plant/root stimulator. Water soak the area sufficiently to get uniform saturation.

FLOWERS & VEGETABLES SPECIFICATIONS

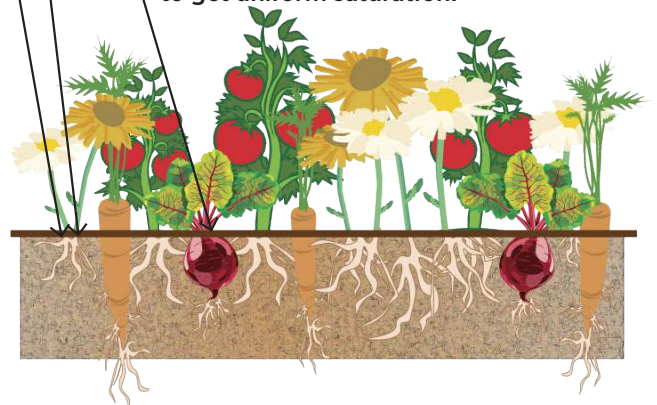
Mix into the soil to a depth of surface grade to 4" below the following

Add 4 lb of **MicroLife Ultimate 8-4-6** per 100 sq ft worked into the soil 3". Reapply every 90 days.

Add 2 lb of **MicroGro Bio Inoculant** per 100 sq ft. worked into the soil 3".

After backfilling, but before mulching, pour the following around the plant as a new plant/root stimulator

4 oz of **MicroLife Maximum Bloom 3-8-3** mixed with a gal of water as a new plant/root stimulator. Water soak the area sufficiently to get uniform saturation.



MAINTENANCE SPECIFICATIONS

TREE SPECIFICATIONS

Small to mid-size Trees

Spring: 20 lb of **MicroLife 6-2-4** per 1,000 sq ft & 10 lb of **MicroLife Humates Plus** per 1,000 sq ft

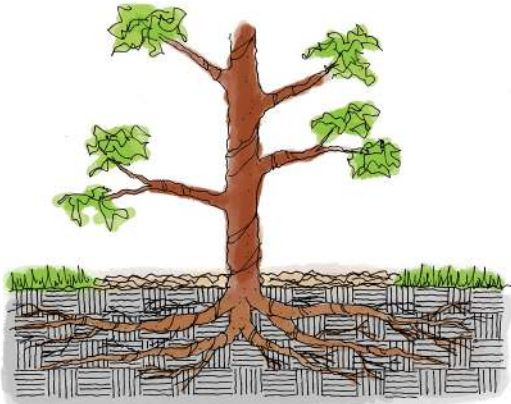
Summer: 20 lb of **MicroLife 6-2-4** per 1,000 sq ft

Fall: 20 lb of **MicroLife 6-2-4** per 1,000 sq ft

Every 30-60 days foliar spray the leaves with **MicroLife Super Seaweed** during the growing season

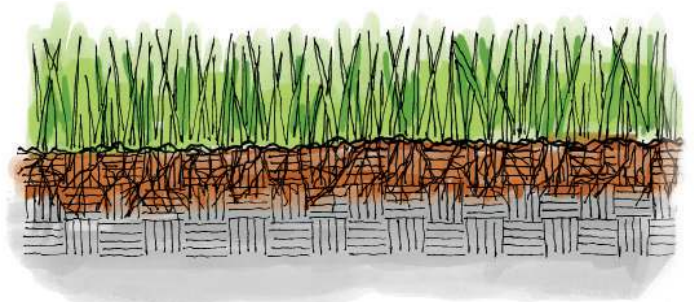
Larger Trees

Once a year, deep root feed with 2 gal of **MicroLife Bio-Matrix 7-1-3** + 6 oz of JRM Mycorrhizal Injectables per 100 gal of water



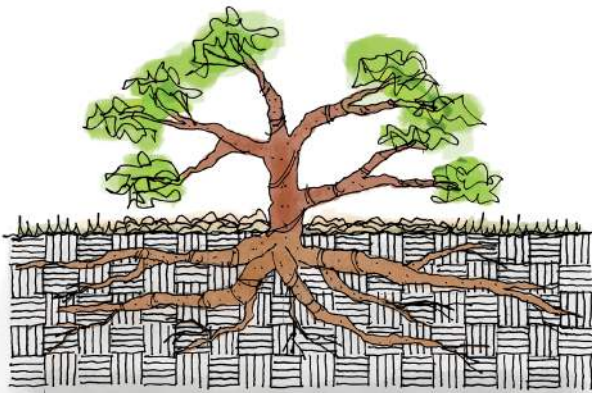
TURFGRASS SPECIFICATIONS

- Early Spring: 10 lb of **MicroLife Humates Plus** per 1,000 sq ft
- Spring: 20 lb of **MicroLife Multi-Purpose 6-2-4** or 5 lb of **MicroLife Hybrid 20-0-5** per 1,000 sq ft
- Early Summer: 10 lb of **MicroLife Humates Plus** per 1,000 sq ft
- Summer: 20 lb of **MicroLife Multi-Purpose 6-2-4** or 5 lb of **MicroLife Hybrid 20-0-5** per 1,000 sq ft
- Fall: 20 lb of **MicroLife Multi-Purpose 6-2-4** or **Brown Patch 5-1-3** per 1,000 sq ft



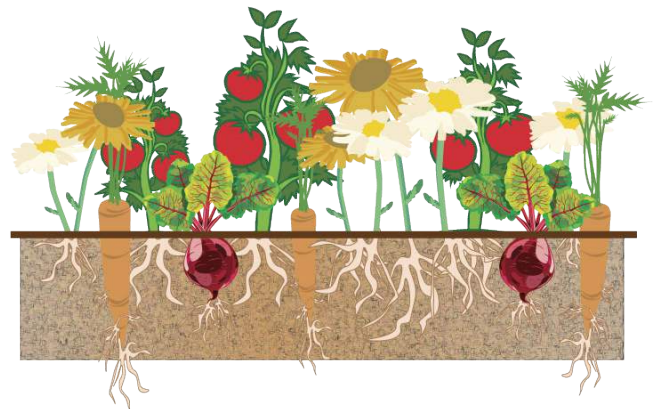
ORNAMENTAL SHRUBS & PERENNIAL SPECIFICATIONS

- Spring: 20 lb of **MicroLife 8-4-6** per 1,000 sq ft
- Spring: 10 lb of **MicroLife Humates Plus** per 1,000 sq ft
- Summer: 20 lb of **MicroLife 8-4-6** per 1,000 sq ft
- Fall: 20 lb of **MicroLife 6-2-4** per 1,000 sq ft
- Every 30-60 days foliar spray the leaves with **MicroLife Super Seaweed** during the growing season



FLOWERS & VEGETABLES SPECIFICATIONS

- Every 60 days apply 40 lb of **MicroLife Ultimate 8-4-6** per 1,000 sq ft
- Every 2-4 weeks foliar spray the leaves/flowers with **MicroLife Maximum Blooms 3-8-3**



MICROLIFE FERTILIZER SCHEDULE



We believe that healthy soils, healthy plants and healthy people are all connected. As such, we take great care in how we manufacture all of the MicroLife All Organic Biological Fertilizers. We make sure that all of our products have the highest nutrition value possible so that all soils, plants and people benefit.

LAWN

EARLY SPRING	MicroLife Humates Plus 0-0-4	10 lb per 1,000 sq ft
SPRING	MicroLife 6-2-4 Or MicroLife Hybrid 20-0-5	20 lb per 1,000 sq ft 5 lb per 1,000 sq ft
EARLY SUMMER	MicroLife Humates Plus 0-0-4	10 lb per 1,000 sq ft
SUMMER	MicroLife 6-2-4 Or MicroLife Hybrid 20-0-5	20 lb per 1,000 sq ft 5 lb per 1,000 sq ft
FALL	MicroLife 6-2-4 Or MicroLife Brown Patch 5-1-3	20 lb per 1,000 sq ft 20 lb per 1,000 sq ft

SHRUBS, TREES, PERENNIALS AND ORNAMENTALS

EARLY SPRING	MicroLife Humates Plus 0-0-4	10 lb per 1,000 sq ft
SPRING	MicroLife 6-2-4	20 lb per 1,000 sq ft
SUMMER	MicroLife 6-2-4	20 lb per 1,000 sq ft
FALL	MicroLife 6-2-4	20 lb per 1,000 sq ft

Every 30 days during the growing season foliar spray MicroLife Super Seaweed or MicroLife Ocean Harvest 4-2-3

AZALEAS, ROSES AND ALL PLANTS THAT WANT A LOWER PH

EVERY 3 MONTHS	MicroLife Acidifer 6-2-4	20 - 40 lb per 1,000 sq ft
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Every 30 days during the growing season foliar spray MicroLife Super Seaweed or MicroLife Ocean Harvest 4-2-3

FLOWERS AND VEGETABLES

EVERY 3 MONTHS	MicroLife Ultimate 8-4-6	40 lb per 1,000 sq ft
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Every 14-30 days foliar spray MicroLife Maximum Blooms 3-8-3

MicroLife™ SPREADER SETTINGS

Product

Chapin Commercial
Max #15

Chapin Performance
Max #20

Scotts Spreader
Max #15

Ace Spreader
Max #5

Lesco Spreader
Max #30



13-15

15-20

15

5

30



4-5

5-8

5-6

2-3

22-24



6-7

8-10

10-11

4

26-28



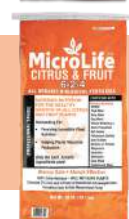
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15

5

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13-15

15-20

15

5

30



13-15

15-20

15

5

30



2-3

2-3

4-5

1-2

15-17



4-5

5-8

5-6

2-3

22-24

ORGANIC PROBLEM SOLVING

PEST INSECTS

As mentioned earlier **going Organic will make your life easier and you will have much less problems.** We have a large history of Organic projects that use very little or no pesticides because there is no need. The plants become so healthy that they naturally resist the pests themselves. And you will have beneficial insects and beneficial microorganisms working on your behalf as well.

It must be noted that 99.9% of all the insects in the world are considered beneficial or benign. A few pest insects like fleas, roaches, fire ants, etc give the rest guilt by association. For example, wasps do not want to hurt humans and wasps are aggressive predators of destructive worms and caterpillars. Avoid mass spraying of pesticides, encourage the good insects to live in your eco-system and you will be rewarded with a lot less pest insects.

A proactive approach that discourages pest insects from setting up shop on your plants will be to foliar spray your plants with a combination of Super Seaweed and Garlic Oil once a month during the growing seasons. Foliar spray this mixture to the point of heavy drip. Note - Garlic will discourage pollinators.

If you do have a pest that needs to be taken care of quickly there are many fast acting, effective Organics easily available. Here's a major bonus - **Organics are much safer to be around then the persistent chemicals.** This is highly important to you, your clients, children, pets and your workers.

ORGANIC REMEDIES:



SOFT BODIED INSECTS (Aphids, Mites, Thrips, White Flies, Lace Bugs, etc)

- Use one of the following; Neem Oil, Orange Oil, or AXXE

SCALE

- Harder to kill because of their armoring. Use 2 oz of Orange Oil mixed with 1 oz of Neem Oil or AXXE to a gallon of water. Spray weekly for 3 weeks.



CATERPILLARS, ARMY WORMS, SOD WEBWORMS

- Use Bacillus Thuringiensis (BT) biological agent.

STINK BUGS & BEETLES

- Pyrethrin mixed with Canola Oil.



CHINCH BUGS

- Occurs when St. Augustine is hot, dry & stressed. Water well during the hot, dry months. Use EcoSMART Granular if there is a problem. Then spray MicroLife Soil & Plant Energy for quick grass recovery.

FLEAS & TICKS

- Spread EcoSMART Granular and/or spray Orange Oil in needed areas.



SLUGS & SNAILS

- Use Sluggo (Iron Phosphate)

FIRE ANTS

- By going Organics you will see a big drop in Fire Ant activity. To control use a two prong attack.
 1. Use any Fire Ant bait you like 2 times a year
 2. Use 6 oz of Orange Oil to a gallon of water and drench the mound



MOSQUITOES

- Spray Garlic Oil all around the area. Spray shrubs, turfgrass, ground cover, deck, building walls, fence, etc.

DISEASE

Most bacteria and fungi are beneficial. **All diseases are caused by either over watering, malnourishment, or stress or a combination.** The use of chemical fungicides causes more problems because they kill everything; the good microbes & the bad microbes, leaving a vacuum & doesn't get to the root cause. It is much better to improve your soil, manage your watering & to apply biological fungicides.

ORGANIC REMEDIES:



LEAF SPOTS & POWDERY MILDEW

- Use Liquid MicroGro AF

BLACK SOOTY MOLD

- Caused by pest insect excretion. First eliminate the pest insect then spray Orange Oil on the leaves. It won't disappear right away but it will over a short time.

SOIL DISEASES – Brown Patch, Pythium, Fusarium, Phytophthora, Take All Patch

- Always caused by over watering and lack of Oxygen around the root systems. Use MicroGro Biological Granulars prior to a problem i.e. at time of planting or on turfgrass before the disease season starts. If disease is present apply MicroGro and water in with Liquid MicroGro AF.



WEEDS

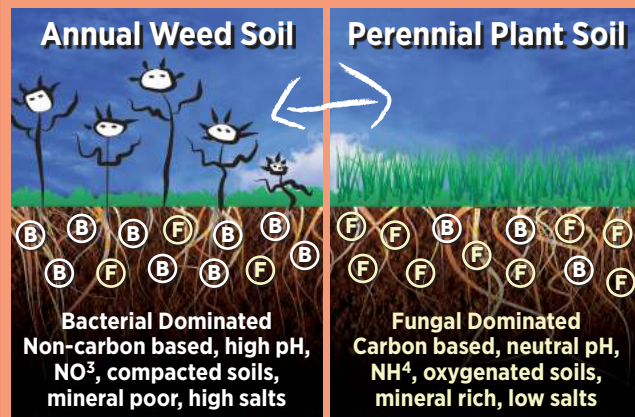
CONTROLLING WEEDS ORGANICALLY WILL NOT BE A BIG PROBLEM EITHER. JUST REMEMBER...

- ✓ View all weeds as indicators. They are growing because the environment favors their growth i.e. compacted clay soils, over-watering, poor soil minerals, excess salts.
- ✓ Chemical fertilizers & chemical herbicides push the soils to grow weeds by causing mineral & microbial imbalances that favor weed growth.
- ✓ Chemical companies try to sell us on having a 100% weed free mono-culture lawn. Mono-culture is not natural in nature. One high profile chemical company tells us that 'clover deliberately wants to disrespect us'. Really, who would actually buy into that? Besides clover is a pretty plant & provides Nitrogen to the turf grass.
- ✓ Chemical herbicides are poisons & are dangerous. They are hazardous to human & animal health, pollute our waters & weaken our plants.
- ✓ Manage expectations. Don't expect miracles overnight but with a good determined strategy you can grow beautiful landscapes without poisoning your land.

ORGANIC REMEDIES:

- Apply **MicroLife Humates Plus** at least once a year to push your soils more fungal. Weeds like bacterial dominated soils.
- Only use good grade Organic fertilizers like MicroLife because they will correct 'weedy soils'.
- Mulch beds only with Aged Hardwood Mulch.
- **AXXE** - use to kill a large variety of broadleaf & grassy weeds. Non-selective & very impressive. This product works very quickly, even in cold weather.
- **20% Vinegar** - use to kill broadleaf & grassy weeds. Non-selective.
- **Agralawn** – very effective for small areas, not practical for large areas. Kills annual broadleaf & grassy weeds yet safe for turf areas.
- **Torch Guns** work great and they are fast. All men love this way to kill weeds.

An abundance of weeds tell you that you have primitive soil with these characteristics:



GROW EASIER.
GROW BETTER. CREATE A BETTER WORLD.
GROW ORGANIC!




MicroLife™
ORGANIC BIOLOGICAL FERTILIZERS

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