These days everyone’s going green. It’s good for you, good for your children, good for the planet. Vital Earth’s® commitment to organic soils and fertilizers has always been rock solid from day one, and we’re glad to see everyone else finally jumping on the bandwagon. We believe that together, we can make a positive environmental impact that will transform the way we think about our relationship with plants and the life-giving soil they thrive in. The healthier the soil, the healthier the plants, the healthier you and your loved ones are and will continue to be.

Not only do we provide you with the best quality products, we also provide step-by-step instructions for how to get the most from your organic garden, developed through years of careful trial and error in our own gardens. Vital Earth’s® products are used by home gardeners and farmers looking for an eco-friendly way to improve crop production, soil health, and nutrient uptake without the use of harsh chemical fertilizers, and to promote a sustainable approach to agriculture. We care about protecting our environment and healthy living.
Vital Earth's® Soil Inoculants ............................................. 5
Vital Earth's® PHC BIOPAK®, Vital Earth's® Mycorrhizal

Vital Earth's® Soil Products ............................................. 7
Mega Worm®, Organic Potting Soil, Manna Mix, Organic Compost OMRI®

Vital Earth's® mediums .................................................. 17
Vital Earth’s® Loose Coco, Coco Block, and Coco Lite; Vital Earth’s® Pumice Stone

Vital Earth’s® Dry Fertilizers ............................................ 21
All-Purpose Guano Mix, Soluble Seaweed Extract, Rose & Flower Mix, O.G. Bloom
Mix, Powdered Glacial Rock, High Nitrogen and High Phosphorous Bat Guano, All
Purpose Seabird Guano, High Phosphorous Seabird Guano, Vital Earth’s® 3-2-2

Vital Earth’s® Granular Neem Concentrate .......................... 41
Granular Neem Concentrate

Vital Earth’s® Liquid Fertilizers ....................................... 43
O.G. Seabird Guano Liquid Grow, O.G. Seabird Guano Liquid Bloom

Vital Earth’s® Application Chart ........................................ 46

Vital Earth’s® Usage Guide .............................................. 47
VITAL EARTH’S® PHC BIOPAK®

Vital Earth’s® PHC BIOPAK® is a unique, dry, water soluble inoculant with beneficial bacteria. This product enriches the soil profile with beneficial microbes which act as a sustainable fertility “system.”

Once the microbes are in place in the root zone, they solubilize phosphorus, fix atmospheric nitrogen, and can gradually improve soil tilth, which encourages healthy root growth. Live beneficial microbes can reproduce in the root zone to maintain populations and sustain beneficial activities.

- All-natural, water soluble.
- Inoculates depleted soils with beneficial bacteria.
- Designed to promote improved crop yields.
- Helps recovery of stressed plants and transplant shock.
- Processes excess fertilizers to prevent nutrient lock and soil buildup.
- Available in: 1 oz. sample envelope (200 per case), 1 lb jar (12 per case, 540 per pallet) and 5 lb bag (5 per case, 36 per pallet).

Directions: Ideal for the first watering when transplanting with Vital Earth’s® Organic Potting Soil. Recommend 1–2 tsp. per gal. Apply only with plain water. Use throughout the grow cycle every 3rd watering in between fertilizing. Use throughout fruit & flower cycle every 4th watering in between fertilizing. Use as the last watering of your garden before plain water is used for the last 2–3 weeks of fruiting and flowering. This is to ensure all nutrients are dissolved in the vegetable, fruit, flower, and/or desired vine, shrub, tree, lawn, turf, and/or container media. May also be used in drip irrigation, raised beds, field crop production, and all farm and gardening application and existing programs. Vital Earth’s® PHC BIOPAK® complements IPM programs utilized by organic gardening techniques.

“Before using BioPak, my plants always got shocked when I transplanted. Now they’re healthy, happy, and growing fast.”

—Steve W., Redway, CA

www.vitalearthsproducts.com
VITAL EARTH’S® MYCORRHIZAL 0 – 0.3 – 0.16

Mycorrhizal fungi increase the surface absorbing area of roots up to a 1,000 times, thereby greatly improving the ability of the plant to access soil resources.

- All-natural, water soluble.
- Designed to protect root zones from pathogens.
- Enhances fertilizer absorption.
- Designed to dramatically improve plant performance with the use of less water and fertilizer.
- Available in: 2.25 oz sample envelope (200 per case); 4.4 lb buckets (6 per case, 56 cases per pallet); 22 lb bucket (72 per pallet)

Gardens and Landscapes: Scatter 1 lb. per 50 sq. ft. on beds and work into the top 4-6 inches of soil. Potting soils: Blend in 1 cup (.5 lb.) per cubic ft. of potting mix.

Existing Plants:
Scatter and scratch material into top layer of soil around plants, or probe down into root zones of container plants.

NOTE:
For best results, use only with gradual release lower-analysis organic fertilizers. Stronger synthetic fertilizers can harm the mycorrhizal fungi.

Transplanting:
Place one to two tablespoons of Vital Earth’s® Mycorrhizal at the base of hole before transplanting.

www.vitalearthsproducts.com
VITAL EARTH’S® Mega Worm®

Worm castings, also known as vermicast, contain water-soluble nutrients that greatly enhance soil conditioning. Our superior quality worm castings use only African nightcrawlers, raised in organic bedding with no toxic materials. Richer in many nutrients than compost produced by other methods, worm castings are also rich in microbial life, which convert nutrients already available in the soil into plant-ready forms. Unlike other compost, worm castings also contain worm mucus, which helps prevent nutrients from washing away with the first watering and holds moisture better than plain soil.

Safe and pet-friendly, our worm castings are an essential part of taking your gardening to the next level.

- Superior quality, 100% organic pure castings.
- Mega Worm® earthworm castings are designed to promote enhanced germination, root growth, plant-growth, crop yeild & water-holding capacity in soils.
- Designed to improve physical structure of soil.
- Excellent for use in compost tea!!
- Available in: 2.25 oz sample envelope (200 per case), 2.25 lb buckets (6 per case, 56 cases per pallet); 30 L /1.1cu.ft. bags (50 per pallet) & 2 yd totes.

Gardens and Landscapes: Up to 4.4 lbs per 100 sq. ft. Gently dig into soil surface once per month or as desired.

Transplanting and Premixing Soil For Potted Plants and Planter Boxes: 1/4 cup per 1 gal. of soil or growing medium. Apply once a month or as desired. Gently dig into soil surface.

Top Dressing: 1/4 cup per 1 gal. of soil or growing medium. Apply once a month or as desired.

Tea Mix: 2-4 tbsp per gal. of water.

www.vitalearthsproducts.com
Soil Products

VITAL EARTH’S® Organic Potting Soil

Our high-quality organic potting soil is the perfect medium for growing all your fruits and vegetables. With sphagnum peat moss, which increases the holding capacity of air and water and decomposes very slowly, your plants are sure to be happy and healthy from seedling to harvest. In addition to sphagnum peat moss, our organic potting soil also contains an earthworm bedding, which helps promote nutrient and water absorption. As if that weren’t enough, our organic potting soil also contains our own specially formulated Vital Earth’s® Organic Compost OMRI®, which provides fertility to soil as well as suppressing disease. Compost helps your soil retain moisture by increasing its microporosity.

- Contains Vital Earth’s® Organic Compost OMRI®.
- Contains Mega Worm® Earthworm Castings.
- Contains mycorrhizal fungi and Vital Earth’s® Powdered Glacial Rock.
- Contains guano, peatmoss, and pumice.
- Ideal water-to-air ratio.
- Perfect for all varieties of flowering plants.
- Available in: 1 cu. ft. bags (70 per pallet) & 2 yd totes.

**Transplanting:** Vital Earth’s® Organic Potting Soil is great for transplanting vegetables, flowers, herbs, and fruits.

**Planter Boxes and Raised Beds:** Fill to desired level and plant.

**TIP 1:**
Don’t forget to use Vital Earth’s® PHC BIOPAK® every time you transplant!

**TIP 2:**
After transplanting into Vital Earth’s® Organic Potting Soil in conjunction with Vital Earth’s® PHC BIOPAK® for the first time watering, wait 3–5 days before beginning your Vital Earth’s® Liquid Seabird Grow 4-3-4 and/or Vital Earth’s® Seabird Liquid Bloom 2-5-0 (see chart on page 46–47 for mixing guide and teas).
VITAL EARTH’S® Organic Manna Mix

Manna is often described as a source of divine nourishment, and this powerful blend of some of Vital Earth’s® most potent ingredients is indeed divine. This is our superior coconut-based planting mix, and we think you will notice great improvement in the yields and quality of your end product. With Vital Earth’s® Coconut Pith, the holding capacity of the extra-long strands of coconut fiber creates the perfect air-to-water ratio for this triple-washed, low-saline, ideal container planting mix. Your plants are sure to be happy and healthy from seedling to harvest.

- Contains O.G. Cal-Phos & O.G. Dolomite Ag-10.
- Contains Vital Earth’s® Coconut Pith (low saline).
- Contains Vital Earth’s® Rose & Flower 5-9-4.
- MegaWorm® earthworm castings are designed to promote enhanced germination, root growth, plant-growth, crop yield & water-holding capacity in soils.
- Contains mycorrhizal fungi and Vital Earth’s® Powdered Glacial Rock.
- Fortified with Vital Earth’s® Organic Compost OMRI™.
- Available in 1.5 cubic ft. bags (62 per pallet) & 2 yd. totes.

Transplanting: Vital Earth’s® Manna Mix is excellent for transplanting flowers and herbs.

Planter Boxes and Raised Beds: Fill to desired level and plant.

TIP 1: Don’t forget to use Vital Earth’s® PHC BIOPAK® every time you transplant!

TIP 2: After transplanting into Vital Earth’s® Manna Mix in conjunction with Vital Earth’s® PHC BIOPAK® for the first time watering, wait 3−5 days before beginning your Vital Earth’s® Liquid Seabird Grow 4-3-4 and/or Vital Earth’s® Seabird Liquid Bloom 2-5-0 (see chart on page 46−47 for mixing guide and teas).
Vital Earth's® Organic Compost OMRI®
**VITAL EARTH’S® Organic Compost OMRI®**

Our organic compost is made up of 39% humus, making it exceptionally rich in organic matter. Humus is the life of your soil. Without it, soil is inactive and unable to produce plants, grass, or flowers. Humus is important because it retains moisture in the soil, loosens the soil permitting better aeration and drainage, and encourages the increase of soil organisms which help make nutrients available to plants. It adds body to light soil and loosens heavy, sticky soil. The internal temperature of Vital Earth’s® Organic Compost OMRI® is brought to between 140° and 150° for at least 15 days, turning it to ensure all material is exposed to this temperature. This process kills pathogens and weed seeds, ensuring a premium product that is vital for organic farms and gardens. In all, the materials are composted and cured for 12 to 18 months and turned at least 3 times.

- Contains 39% humus.
- Great for adding nutrients to depleted soils.
- Designed to improve physical structure of soil.
- Excellent for use in compost tea!!
- Available in: 1 cu.ft. bags (50 per pallet) & 2 yd totes.

**Lawns:** For new lawns put 4”–6” of compost on the soil and till to a depth of 5”–8”. For existing lawns, apply a thin layer up to a 1/4” of fine compost on the lawn and water it in well. This can be done year-round to improve nutrient levels while reducing watering needs. To Fill in Patches: Create a mixture of 30% compost, 60% topsoil, 10% grass seed. Spread a 2”–4” layer over the patch and water thoroughly.

**Gardens:** Add compost to your garden each year in spring or early summer, before planting. Till the soil to a depth of 5”–10”, then apply 4” of compost on top and till once more to mix. Throughout the growing season, add a sprinkle of compost mixed with soil as a top layer. Compost here will add nutrients and beneficial microbes, hold water, and improve plant growth.

**Trees and Shrubs:** Mix compost with soil—dug from the hole—for planting a tree or shrub. Use a mixture of 1/3 compost to 2/3 soil. Use this mixture to fill the bottom of the hole, around the root ball and up to the base of the stem, then water with Vital Earth’s PHC BIOPAK® (see page 5 for complete instructions).
**VITAL EARTH’S® Coconut Mediums**

Coconut pith is a natural fiber made out of coconut husks, and is a renewable resource alternative to peat moss. The extraction of the coconut fiber from husks gives the by-product called coco pith, or coco coir. Coco pith is a 100% natural growing medium. Coco pith is naturally dried in the sun and is then processed to produce different items, such as our Loose Coco, Coco Block, and Coco Lite. These makes an excellent growing medium for hydroponics or container plant growing. Clean coco pith has natural rooting hormones and anti-fungal properties.

- **LOOSE COCO:**
  1.5 cu ft bag; 62 per pallet; 2 yard totes

- **COCO BLOCK:**
  220 bails per pallet; 2.5 cu ft per bail

- **COCO LITE:**
  2 cu ft bag; 62 per pallet; 2 yard totes

**Amendment Rate:** One 1.5 cubic ft bag of Vital Earth’s® Loose Coco® to 10 cu. ft. of Vital Earth’s® Potting Soil for extra aeration and water retention.

**TIP:** For best results, submerge entire brick in water and let soak for one hour before breaking up and using.

**Directions:** Gently add water and crumble into soil. Ratio of coco pith to soil dependent upon amount of water retention desired.

**TIP:** Preferred dry break-up method, best results require a chipper shredder.

**Directions:** One measure of Vital Earth’s® Coco Lite to 5 measures of Vital Earth’s® Potting Soil for extra aeration and water retention.

**NOTE:** For best results, use only with gradual release lower-analysis organic fertilizers. Stronger synthetic fertilizers can harm the mycorrhizal fungi.

[www.vitalearthproducts.com](http://www.vitalearthproducts.com)
VITAL EARTH’S® Pumice

Vital Earth’s® PUMICE is a type of extrusive volcanic rock, produced when lava with a very high content of water and gases (together these are called volatiles) is extruded (or thrown out of) a volcano. As the gas bubbles escape from the lava, it becomes frothy. When this lava cools and hardens, the result is a very light rock material filled with tiny bubbles of gas.

- Designed to provide extra soil aeration.
- Lightweight and versatile.
- Available in: 1 cu ft. bags (62 per pallet);
  2 yard tote

Amendment Rate: One 1 measure of Vital Earth’s® PUMICE to 10 measures of Vital Earth’s® Potting Soil for extra airation.
Vital Earth's® All-Purpose Guano Mix 7-7-2
VITAL EARTH’S® All-Purpose Guano Mix 7-7-2

This well balanced seabird and bat guano mix is the perfect fertilizer to use for all of your flowers, fruits, herbs, and vegetables. Works exceptionally well for all your planting needs.

- Our guano mix is a perfect blend of seabird and bat guano.
- 100% guano. No additives. No fillers. All-natural organic fertilizer.
- This unique blend provides a complete nutrient, combining the best of the land and the sea.
- Excellent for making compost tea and liquid fertilizers.
- Designed to promote intense growth.
- Designed to promote improved crop yields.
- Available in: 2.25 oz sample envelope (200 per case), 4.4 lb buckets (6 per case, 56 cases per pallet); 22 lb bags (96 per pallet); 44 lb bags (50 per pallet).

Gardens and Landscapes: Up to 2.2 lbs per 100 sq. ft. Gently dig into soil surface once per month or as desired.

Transplanting and Premixing Soil For Potted Plants and Planter Boxes: 2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired. Gently dig into soil surface.

Top Dressing: 2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired.

Tea Mix: 1-2 tbsp. per gal. of water; use in conjunction with Vital Earth’s® compost.

www.vitalearthsproducts.com
VITAL EARTH’S® Soluble Seaweed Extract 1-1-17

Vital Earth’s® Soluble Seaweed Extract 1-1-17 is an extract made from Ascophyllum nodosum, a marine plant exclusive to the North Atlantic. When used as directed, it has positive benefits to overall plant health, quality, and nutrition.

- All-natural water soluble fertilizer.
- Rich in auxins and cytokins.
- Designed to build plants’ immune system.
- Amazingly effective as a foliar spray.
- Available in: 2.25 oz sample envelope (200 per case), 3 lb buckets (6 per case, 56 cases per pallet); 15 lb buckets (72 per pallet).

Foliar Application: 1 tsp (10 grams) to 1 gal (4 liters) of water. Apply in desired amounts.

Ground Application: 1 1/3 tsp (20 grams) to 1 gal (4 liters) of water. Apply in desired amounts. Apply early as possible to the roots of the plant for maximum benefits.

“This is my favorite kelp product to make a foliar spray out of.”
—Jenny, Portland, OR
VITAL EARTH’S® Rose & Flower Mix 5-9-4

A superior blend of organic bat and seabird guanos for roses, bulbs, flowering plants, trees, shrubs, and vines. Designed to promote vigorous vegetative as well as flowering growth, this specially formulated Rose & Flower Mix will help your garden’s flowers reach their full potential.

- A perfect blend of seabird and bat guanos with no additives or fillers.
- Designed to promote intensive growth, outstanding budding and flowering, and improved crop yields.
- Designed to promote improved taste and flavor in all fruits and vegetables.
- Soil deficient in organic matter can be made more productive by the use of Vital Earth’s® Megaworm® and Organic Compost OMRI™.
- Available in: 2.25 oz sample envelope (200 per case), 4.4 lb buckets (6 per case, 56 cases per pallet); 22 lb bags (96 per pallet); 44 lb bags (50 per pallet).

Gardens and Landscapes: Up to 2.2 lbs per 100 sq. ft. Gently dig into soil surface once per month or as desired.

Transplanting and Premixing Soil For Potted Plants and Planter Boxes: 2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired. Gently dig into soil surface.

Top Dressing: 2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired.

Tea Mix: 1-2 tbsp. per gal. of water; use in conjunction with Vital Earth’s® bat guanos and compost.

www.vitalearthsproducts.com
VITAL EARTH’S® O.G. Bloom Mix 0-9-0

For simply amazing blooms, whether tulips or tomatoes, nothing beats Vital Earth’s® O.G. Bloom Mix. If you’re looking for the biggest, healthiest blooming in your garden, this fertilizer is a must have. A superior blend of bat and seabird guanos with no fillers specially formulated for maximum results.

- A special blend of seabird and bat guanos.
- An all-natural organic fertilizer with no additives or fillers.
- Designed to promote outstanding flowering and fruiting as well as improved crop yields.
- Designed to promote improved taste, aroma, and essential oils in all fruits and vegetables.
- Soil deficient in organic matter can be made more productive by the use of Vital Earth’s® O.G. Bloom Mix.
- Available in: 2.25 oz sample envelope (200 per case), 4.4 lb buckets (6 per case, 56 cases per pallet); 22 lb bags (96 per pallet); 44 lb bags (50 per pallet).

Gardens and Landscapes: Up to 2.2 lbs per 100 sq. ft. Gently dig into soil surface once per month or as desired.

Transplanting and Premixing Soil For Potted Plants and Planter Boxes: 2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired. Gently dig into soil surface.

Top Dressing: 2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired.

Tea Mix: 1-2 tbsp. per gal. of water; use in conjunction with Vital Earth’s® bat guanos and compost.

“Wow! Amazing results!”
—Givionni A., Applegate, OR
Vital Earth's® Powdered Glacial Rock
VITAL EARTH’S® Powdered Glacial Rock

A wide variety of rocks containing a spectrum of trace minerals are collected and pulverized by the expansion/contraction action of the glacier. This product replaces key soil elements, reversing soil depletion. An excellent source of readily available calcium, iron, magnesium and potassium plus trace elements and micronutrients. Increases phosphorous availability.

- All-natural organic fertilizer. No additives, no fillers.
- Provide plants with essential trace elements and minerals.
- Boost brix levels (sugar content levels in fruits such as wine grapes).
- Less fertilization required.
- Help to make insoluble phosphorous soluble.
- Designed to promote improved crop yields.
- Helps to feed soil microbes.
- Available in: 2.25 oz sample envelope (200 per case), 4.4 lb buckets (6 per case, 56 cases per pallet); 22 lb bags (96 per pallet); 44 lb bags (50 per pallet).

Gardens and Landscapes: Up to 4.4 lbs per 100 sq. ft. Gently dig into soil surface once per month or as desired.

Transplanting and premixing soil for potted plants and planter boxes: 4 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired. Gently dig into soil surface.

Top Dressing: 4 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired.
Vital Earth’s® High-Nitrogen Bat Guano 9-3-1
VITAL EARTH’S® High-Nitrogen Bat Guano 9-3-1

First used in Peru centuries ago, bat guano continues to be in great demand for its high level of nitrogen, which is extremely helpful for the vegetative growth of plants. Its lack of odor also makes bat guano more attractive than other types of fertilizer.

- All-natural organic fertilizer.
- Designed to promote intense vegetative growth.
- Excellent for making compost tea and liquid fertilizers.
- 100% guano. No additives. No fillers.
- Designed to promote improved crop yields.
- Available in: 1 oz. sample envelope (200 per case), 1.25 lb buckets (6 per case, 56 cases per pallet); 22 lb bags (60 per pallet).

Gardens and Landscapes: Up to 2.5 lbs per 100 sq. ft. Gently dig into soil surface once per month or as desired.

Transplanting and Premixing Soil For Potted Plants and Planter Boxes: 2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired. Gently dig into soil surface.

Top Dressing: 2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired.

Tea Mix: 1-2 tbsp. per gal. of water; use in conjunction with Vital Earth’s® bat guanos and compost.

www.vitalearthproducts.com
Vital Earth's® High-Phosphorous Bat Guano 0-13-0
VITAL EARTH’S® High-Phosphorous Bat Guano 0-13-0

One hundred percent bat guano promotes intense fruiting and flowering. This high phosphorous bat guano has been known to be an effective fertilizer for centuries. Soils deficient in organic matter can be made more productive by the use of bat guano.

- All-natural 100% guano! No additives. No fillers.
- Designed to promote intense fruiting and flowering growth.
- Excellent for making compost tea and liquid fertilizers.
- Designed to promote improved crop yields.
- Available in: 2.25 oz sample envelope (200 per case), 4.4 lb buckets (6 per case, 56 cases per pallet); 22 lb bags (96 per pallet); 44 lb bags (50 per pallet).

Gardens and Landscapes:
Up to 2.2 lbs per 100 sq. ft.
Gently dig into soil surface once per month or as desired.

Transplanting and Premixing Soil For Potted Plants and Planter Boxes:
2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired. Gently dig into soil surface.

Top Dressing:
2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired.

Tea Mix:
1-2 tbsp. per gal. of water; use in conjunction with Vital Earth’s® bat guanos and compost.

www.vitalearthproducts.com
VITAL EARTH’S® All-Purpose Seabird Guano 8-4-4

This well balanced blend of seabird guanos is the perfect fertilizer to use for all of your flowers, fruits, herbs, and vegetables.

- Designed to promote intensive growth. All-natural organic fertilizer.
- 100% guanos. No additives. No fillers.
- Excellent for making compost tea and liquid fertilizers.
- Designed to significantly improve crop yields.
- Available in: 2.25 oz sample envelope (200 per case), 4.4 lb buckets (6 per case, 56 cases per pallet); 22 lb bags (96 per pallet); 44 lb bags (50 per pallet).

“*The size and yield of my plants soared after using the 8-4-4. Thank you Vital Earth!*”

—Matt B., Mill Valley, CA

Gardens and Landscapes: Up to 2.2 lbs per 100 sq. ft. Gently dig into soil surface once per month or as desired.

Transplanting and Premixing Soil For Potted Plants and Planter Boxes: 2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired. Gently dig into soil surface.

Top Dressing: 2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired.

Tea Mix: 1-2 tbsp. per gal. of water; use in conjunction with Vital Earth’s® bat guanos and compost.
Vital Earth's® High-Phos Seabird Guano 0-11-0
VITAL EARTH’S® High-Phos Seabird Guano 0-11-0

This well-balanced seabird guano is the perfect fertilizer to use for all of your flowers, fruits, herbs, and vegetables. Launch your plants into full bloom!

- Great for budding and flowering!
- 100% guano. No additives. No fillers.
- Excellent for making compost tea and liquid fertilizers.
- Designed to maximize your yield.
- Available in: 2.25 oz sample envelope (200 per case), 4.4 lb buckets (6 per case, 56 cases per pallet); 22 lb bags (96 per pallet); 44 lb bags (50 per pallet).

Gardens and Landscapes: Up to 2.2 lbs per 100 sq. ft. Gently dig into soil surface once per month or as desired.

Transplanting and premixing soil for potted plants and planter boxes:
2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired. Gently dig into soil surface.

Top Dressing:
2 tbsp. per 1 gal. of soil or growing medium. Apply once a month or as desired.

Tea Mix:
1-2 tbsp. per gal. of water; use in conjunction with Vital Earth’s® bat guanos and compost.
VITAL EARTH’S® All Purpose 3-2-2

Vital Earth’s® 3-2-2 helps to increase the size and vitality in all plants, lawns, vines, shrubs and trees. It is the perfect blend for residential and commercial farm applications.

- All-natural organic fertilizer.
- Designed to promote intense vegetative growth.
- Designed to maximize your yield.
- Available in: 2.25 oz sample envelope (200 per case); 4.4 lb buckets (6 per case, 56 cases per pallet); 22 lb bag (96 per pallet); 44 lb bag (50 per pallet).

Gardens and Landscapes: Up to 22 lbs per 1000 sq. ft. Gently dig into soil surface once per month or as desired.

Transplanting and Premixing Soil For Potted Plants and Planter Boxes: 2 tbsp. per 1 gal of soil or growing medium. Gently dig into soil surface once a month or as desired.

Top Dressing: 2 tbsp. per 1 gal of soil or growing medium. Gently dig into soil surface once a month or as desired.

Tea Mix: 1-2 tbsp per gal — (see tea recipe on page 46).
VITAL EARTH’S® Granular Neem Concentrate

Neem oil is a vegetable oil pressed from the fruits and seeds of Neem, an evergreen tree originally from India. It is perhaps the most important of the commercially available products for organic farming.

- Use as a foliar spray or root drench application.
- Great on roses and all your flowers.
- Works well on fruit trees.
- Ideal for lawns, gardens, container growing.
- Works equally well indoors or outdoors.
- Vegetable gardeners love it!
- Available in 25 gram, 50 gram, and 100 gram bags (25 per case).

Gardens and Landscapes: Use one to two teaspoons per gallon of water, add organic wetting agent, and spray foliage until drenched. Repeat as necessary.

Soil Drench: One to two teaspoons per gallon of water. Drench soil until fully wet.

“This is much better than using any non-organic chemicals. My fruits don’t have that bitter taste anymore. Thank you for providing this product!”
—Julia S., Portland, OR

www.vitalearthproducts.com
VITAL EARTH’S® O.G. Seabird Guano Liquid Grow 4-3-4

This Vital Earth’s® liquid fertilizer is a special formula extracted from seabird guano, fish solubles and potassium sulfate. This unique blend is designed to give your plants nitrogen and other essential nutrients for vegetative growth. Enzymatically processed to achieve the most absorbable nutrients for your plants.

- All-natural liquid organic fertilizer.
- No additives. No fillers. 100% organic.
- Designed to promote vigorous vegetative growth.
- Excellent for vegetables, herbs, and shrubs.
- Use in conjunction with Vital Earth’s® 2-5-0 liquid fertilizer and the complete line of Vital Earth’s® soil building products.
- Available in: 1 quart (12 per case, 60 cases per pallet); 1 gallon (4 per case, 48 cases per pallet); 2.5 gallon (2 per case, 48 cases per pallet); 5 gallon (48 buckets per pallet).

Gardens and Landscapes: 1 tbsp per gal of water, feed plants once per week or as desired.

New Gardens:
1 tbsp per gal of water, give to your plants when transplanting.

Existing Gardens:
1-2 tbsp per gal of water.

Foliar Feeding:
1 tbsp per gal of water, add a wetting agent, and spray your plants well.

www.vitalearthsproducts.com
Vital Earth's® O.G. Seabird Guano Liquid Bloom 2-5-0
VITAL EARTH’S® O.G. Seabird Guano Liquid Bloom 2-5-0

This product is a special formula extracted from seabird guano and fish bone meal to give phosphorous and other essential nutrients to your fruiting and flowering plants. Enzymatically processed to achieve the most absorbable nutrients for your plants.

- Designed to promote improved flavor in vegetables and fruits.
- Designed to promote intense fruiting, flowering, and blooming.
- Use in conjunction with Vital Earth’s® 4-3-4 liquid fertilizer and the complete line of Vital Earth’s® soil building products.
- Available in: 1 quart (12 per case, 60 cases per pallet); 1 gallon (4 per case, 48 cases per pallet); 2.5 gallon (2 per case, 48 cases per pallet); 5 gallon (48 buckets per pallet).

Gardens and Landscapes: 1 tbsp per gal of water, feed plants once per week or as desired.

New Gardens: 1 tbsp per gal of water, give to your plants when transplanting.

Existing Gardens: 1-2 tbsp per gal of water.

Foliar Feeding: 1 tbsp per gal of water, add a wetting agent, and spray your plants well.
**TEA APPLICATION CHART**

All Measurements per Gallon of Water  
(If choosing to use more than one guano type in your teas make sure not to exceed a combined total of 1-2 tbsp per gallon).

### SOIL BUILDERS

<table>
<thead>
<tr>
<th></th>
<th>GROW WEEK 1-2</th>
<th>GROW WEEK 3-4</th>
<th>GROW WEEK 1-3</th>
<th>GROW WEEK 4-6</th>
<th>BLOOM WEEK 7-8*</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>MegaWorm®</strong></td>
<td>2-4 tbsp</td>
<td>2-4 tbsp</td>
<td>2-4 tbsp</td>
<td>2-4 tbsp</td>
<td>water only</td>
</tr>
<tr>
<td><strong>Organic Compost OMRI®</strong></td>
<td>2-4 tbsp</td>
<td>2-4 tbsp</td>
<td>2-4 tbsp</td>
<td>2-4 tbsp</td>
<td>water only</td>
</tr>
</tbody>
</table>

### DRY FERTILIZERS (Apply every 7-10 days or as desired)

- **Vital Earth’s® 1-1-17**  
  - 1-2 tbsp  
  - 1-2 tbsp  
  - 1-2 tbsp  
  - 1-2 tbsp  
  - water only
- **Vital Earth’s® 3-2-2**  
  - 1 tbsp  
  - 1-2 tbsp  
  - water only
- **All-Purpose Seabird Guano 8-4-4**  
  - 1 tbsp  
  - 1-2 tbsp  
  - water only
- **High Nitrogen Bat Guano 9-3-1**  
  - 1 tbsp  
  - 1-2 tbsp  
  - water only
- **Guano Mix 7-7-2**  
  - 1 tbsp  
  - 1-2 tbsp  
  - water only
- **Rose & Flower Mix 5-9-4**  
  - 1-2 tbsp  
  - water only
- **O.G. Bloom Mix 0-9-0**  
  - 1-2 tbsp  
  - 1-2 tbsp  
  - water only
- **Seabird Guano 0-11-0**  
  - 1-2 tbsp  
  - 1-2 tbsp  
  - water only
- **High Phosphorous Bat Guano 0-13-0**  
  - 1-2 tbsp  
  - 1-2 tbsp  
  - water only

### LIQUID FERTILIZERS (Apply every 3-5 days or desired)

- **O.G. Seabird Guano Liquid Grow 4-3-4**  
  - 1 tsp  
  - 1-2 tbsp  
  - water only
- **O.G. Seabird Guano Liquid Bloom 2-5-0**  
  - 1-2 tbsp  
  - 1-2 tbsp  
  - water only

### ESSENTIAL BACTERIA & MINERALS

- **Vital Earth’s® BioPak®**  
  - Use throughout grow cycle and bloom cycle every 3rd watering in between fertilizing. Use final application of Vital Earth’s® PHC BioPak® before beginning flush cycle. Always give your plants water only during last two weeks of bloom.
- **Powdered Glacial Rock**  
  - For top dressing use 4 tbsp/gal of soil. Apply monthly. Can be used as mildew prevention in foliar spray (1/2 tsp to 1 tbsp per quart). Never foliar spray during bloom cycle. For stem rot, moss, algae & mold apply generously as a powder daily until a drying effect begins. Avoid overusing measurements.

### MEDIUMS

<table>
<thead>
<tr>
<th></th>
<th>Use Vital Earth’s® Organic Potting Soil when transplanting, water in with Vital Earth’s® PHC BioPak® from center to outer area of containers or garden space. Once plants are ready to water, roughly 5-7 days after transplanting, begin Vital Earth’s® tea treatments (see Application Guide for directions).</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Organic Potting Soil</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Manna Mix</strong></td>
<td>Use Vital Earth’s® Manna Mix when transplanting, water in with Vital Earth’s® PHC BioPak® from center to outer area of containers or garden space. Once plants are ready to water, roughly 3-5 days after transplanting, begin Vital Earth’s® tea treatments (see Application Guide for directions).</td>
</tr>
<tr>
<td><strong>Coco Lite</strong></td>
<td>Coco Lite has perlite and our mycorrhizal blend added; this makes an excellent growing medium for container plants or as a medium for hydroponics.</td>
</tr>
</tbody>
</table>

### FOLIAR SPRAYS

- **Seabird Liquid Grow and Liquid Bloom**  
  - Use Seabird Guano Liquid Grow 4-3-4 (1/2 tsp per qt.) spray during early and middle vegetation cycles. Use Seabird Guano Liquid Bloom 2-5-0 (1/2 tsp per qt.) spray 10 days before blooming cycle every few days.
- **Kelp 1-1-17**  
  - Use in conjunction with either Seabird Liquid Grow or Liquid Bloom, 1 teaspoon per gallon.

---

**Tea Preparation**: Use a stocking to fill with 2–4 tbsp/gal. of MegaWorm® & Organic Compost OMRI® as a base for all of Vital Earth’s® tea treatments. Follow the Application Guide above to make the tea for your needs. Let sit for 24 hours with good aeration, stir vigorously and apply to plants.

**Watering Method**: The key to encouraging healthy root growth is to water plants thoroughly in the center, and gradually lessen amount of water to outer area of containers or garden space. Avoid overwatering. *If your desired plant or flower variety takes longer than 8 weeks to bloom, continue to use the same measurements indicated in the chart above for weeks 4–6, and be sure to flush using only water for the last two weeks before harvest.

**Transplanting**: Place one to two tablespoons of Vital Earth’s® Mycorrhizal at the base of hole before transplanting.
HOW TO GET THE MOST FROM YOUR ORGANIC GARDEN

STAGE 1: TRANPLANTING
If transplanting into containers or making your own raised beds, make sure to use Vital Earth’s® Organic Potting Soil. Also use Vital Earth’s® PHC BIOPAK® when transplanting herbs, vegetables, fruits, flowers, or trees into containers, gardens or raised beds; mix 1–2 teaspoons per gallon of water, and water in thoroughly.

New Gardens: Use Vital Earth’s® Organic Compost OMRI® to add organic matter to your soil and Vital Earth’s® Megaworm® to add beneficial bacteria, microactivity and a slow-release fertilizer. Use Vital Earth’s® guanos to add nitrogen, phosphorous, potassium, and Vital Earth’s® Powdered Glacial Rock to add trace minerals.

Existing Gardens: Be sure to give your garden Vital Earth’s® PHC BIOPAK® to inoculate your soil and provide beneficial bacteria. Prepare a plant tea with Vital Earth’s® Megaworm® and guanos (use a stocking, fill it with one-half cup Vital Earth’s® Megaworm® and two tablespoons Vital Earth’s® 9-3-1 Bat Gauno per gallon of water; let sit overnight and give to your plants the next day), and make sure to use Vital Earth’s® Organic Compost OMRI® and Megaworm® as a top-dress (mix Vital Earth’s® Megaworm®, Vital Earth’s® Organic Compost OMRI® and Vital Earth’s® 7-7-2 Guano Mix; rake in top 3 inches of soil).

STAGE 2: GROW
For great vegetative growth make sure to use a plant tea (see below for directions on making plant tea) using Vital Earth’s® 9-3-1 Bat Guano, 8-4-4 Seabird Guano, and 7-7-2 Guano Mix.

Top-Dressing: Top-dress as desired (see above for directions on making a top-dress).

Compost Tea: You will need a compost tea maker; add Vital Earth’s® Megaworm® and Vital Earth’s® Organic Compost OMRI®.

Use Vital Earth’s® PHC BIOPAK® after every third feeding for nutrient uptake and to prevent nutrient lock.

STAGE 3: BLOOMING & FRUITING
Make a bloom and fruiting plant tea using Vital Earth’s® O.G. Bloom Mix 0-9-0, Vital Earth’s® Rose & Flower Mix 5-9-4, Vital Earth’s® High-Phosphorous Seabird Guano 0-11-0, and/or Vital Earth’s® High-Phosphorous Bat Guano 0-13-0. You may also use Vital Earth’s® liquid fertilizers (Vital Earth’s® Seabird Guano Liquid Grow 4-3-4 and/or Vital Earth’s® Seabird Guano Liquid Bloom 2-5-0), using 2 tablespoons per gallon of water.

Compost Tea: You will need a compost tea maker; use Vital Earth’s® Organic Compost OMRI® and Vital Earth’s® Megaworm®.

Top-Dressing: Mix Vital Earth’s® Megaworm® and Vital Earth’s® Organic Compost OMRI® and Vital Earth’s® Seabird Guano 0-11-0; rake into top 3 inches of soil.

Use Vital Earth’s® PHC BIOPAK® after every third feeding for nutrient uptake, micronutrients, improved fertility and a healthy rootzone.

www.vitalearthsproducts.com