

**Morgan Composting inc.**

**GREENHOUSE**

Updated November 2023

**&**

**NURSERY**

**GROWER**

**CATALOG**





**Morgan Composting<sup>INC.</sup>**

# GREENHOUSE & NURSERY

## GROWER CATALOG

### What Can Morgan Composting **DOO** for You?

**Morgan Composting** designs, manufactures, and distributes powerful soil amendments and mixes for Michigan and beyond. It all began in 1996 when Brad Morgan had a manure management problem on his dairy farm. Brad and his father decided to take a gamble on an idea to use manures and waste products that others were trying to dispose of to make something valuable.



Brad started making **DAIRY DOO** – an organic, thermophilic, and weed-free designer compost that is full of the biology soil

needs to grow the healthiest plants possible. **DAIRY DOO** is more than a backyard compost. It's specially designed to restore health to depleted soils without the use of harmful chemicals. **DAIRY DOO** has a specific recipe, much like baking a cake, in order to create a consistently high-quality product.

Today the cows are gone and instead the original farm is used to produce a whole line of **DAIRY DOO** products: **DAIRY DOO** Organic Compost, Custom Blends made specific for your soil, Organic Potting Soils, Organic Granulated Fertilizers, and Sustainable Liquid Amendments.



The Morgan Family: L to R, Nicole, Ensley, Justin, Dale, Reenie, Brad and Sue.

Brad was, and still is, a farmer through and through. He is passionate about soil health and creating sustainable practices that benefit everyone. Today, his sons have joined the business and are committed to a healthier Michigan for all.

The **DOO** Crew is here to serve you! Pick a product from this catalog or call us for help designing the perfect blend for your needs: 231-734-2451 or [dairydoo.com](http://dairydoo.com).



**From day one we've been innovating by taking what no one wants and making it into something we can all use.**

We use manures & waste products to create the **DAIRY DOO** line



This recycling helps protect the environment

Gardeners & Farmers use **DAIRY DOO** products to improve soil health for healthier plants



Healthier soils grow healthier plants which reduces the need for chemicals and pesticides



**HEALTHIER MICHIGAN!**



**Morgan Composting<sup>INC.</sup>**

# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**

### **DAIRY DOO**

#### *Organic Designer Compost*

Organic and high-quality **DAIRY DOO** compost stands alone for enhancing soil health with its weed-free biology. Just a little amount ramps up the microbes in tired beds or containers.

Plus, the cost-effectiveness of **DAIRY DOO** as an amendment makes it an affordable way to get the job done right.

### **how to use DAIRY DOO**

For a garden done the way Mother Nature intended, use **DAIRY DOO** as an amendment for existing gardens, new gardens, or in pots and containers.

DO NOT use for direct planting. To use prior to planting, spread  $\frac{1}{4}$  to  $\frac{1}{2}$  inch **DAIRY DOO** onto the soil, lightly rake or mix and water well. To use post planting, sprinkle  $\frac{1}{8}$  inch **DAIRY DOO** around the plants and water well. Available in 1 cubic foot bags, super sack or bulk. This product is organic and weed free.





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**WormDoo** is an all-natural soil amendment produced by the millions of worms on our worm farm that are fed an organic, balanced diet of protein and minerals. These high-quality worm castings add beneficial biology and fungal properties to the soil, improves water retention, and can improve root development. All of this creates healthier plants and increases the plant's natural ability to resist disease.

## how to use **WormDoo**

A little goes a long way! Mix **WormDoo** into the soil at a 1:10 ratio before planting. For established plants, work a small amount into the soil around the plant, being careful not to disturb the roots. Water well.  
Do NOT use for direct planting.



**Compost Tea** is an all-natural, organic amendment that boosts soil microbes. It comes in a dry form that you brew into a liquid and apply as a foliar feed or soil drench. It is formulated with **DAIRY DOO**, **WormDoo**, kelp and fish to encourage soil health and microbiology in your garden. When used regularly, **Compost Tea** aids in disease resistance. A little goes a long way!

## how to use **Compost Tea**

Gently mix your dry **Compost Tea** with water at a rate of 1/2 gallon of **Compost Tea** to 5 gallons of water. Brew for 48 hours using an air pump for aeration **OR** let the mixture steep for 5 days. For best results, **Compost Tea** should be used immediately after brew or steep times are complete.

You can use your liquid **Compost Tea** as a foliar feed or by soil drenching plants weekly or as needed. This is ideal for transplants to reduce stress.

**Do NOT use dry **Compost Tea** for direct planting.**



# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**

### **Has Your Soil Foiled Your Garden Dreams?**

*"I just can't grow carrots –  
my ground is all clay."*

*"I can't grow cucumbers, I've tried,  
they just don't grow."*

Have you said something like this before? Gardeners will often survey their soil and come to the conclusion that they are limited in what they can grow. They forget that the soil is alive and capable of changing! The thought of trying to change your soil might be intimidating, but with a few tips and tools, you can do it!

#### **Organic Matter is the Place to Start**

Organic matter is a key ingredient for soil health and a great place to start no matter what kind of soil you have. The addition of organic matter helps break up clay or will also bind sandy soil. It puts biology back into the soil which improves drainage in clay but improves water retention in sandy soils. If you don't think that is impressive enough, it also makes a welcome environment for earthworms.



#### **Embrace the Earthworms!**

Why roll out the welcome mat for earthworms? Earthworms help aerate your soil as they tunnel through and leave behind worm castings which improve the nutrients available in the soil for plants. The number of earthworms in your soil can actually be an indicator of how healthy your soil is. Remember, though, pesticides can kill off earthworms so following healthy and organic garden practices can help keep your underground neighbors happy and active. To learn more about earthworms and how to test for their presence in your soil, take a look at this article by Michigan State University Extension: [canr.msu.edu/news/earthworms\\_can\\_be\\_an\\_indicator\\_of\\_soil\\_health](http://canr.msu.edu/news/earthworms_can_be_an_indicator_of_soil_health)

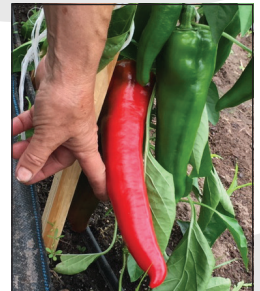
#### **Look at Other Missing Nutrients & Minerals**

A formal soil test can tell you exactly what your soil needs, but here are some general guidelines.

- A crusty, crumbly ground needs help with its soil structure, something calcium is great at.
- Is your garden growing but the yields aren't really up to snuff? Adding sulfur to the soil enhances the nitrogen intake of your plants which improves your yields.
- Speaking of nitrogen, the big three nutrients for plants known as NPK (nitrogen, phosphorus, and potassium) are essential for plant growth and quality. Do you have enough present in your soils for your plants to thrive?
- Don't forget about micronutrients either. Trace elements like copper, boron, zinc, and iron are "vitamins" for both plants and us. Make sure your garden is healthy so you know you are eating nutrient-dense food.

#### **An Easy Solution**

So what can help with everything we've discussed? If you guessed the product line from **DAIRY DOO** you are right! **DAIRY DOO** products blend science with common sense to make soils better for generations to come.



The original **DAIRY DOO** mix is an organic, high-quality, weed-free, designer compost that heals the soil. It is full of organic matter, nutrients, minerals, and biology. Use a little **DAIRY DOO** in conjunction with products like **DAIRY DOO's** organic, granulated **HEALTHY GARDEN** fertilizer, and you will be blown away by how much your soil can improve.

Don't give up on your garden dreams because of the current state of your soil. And don't stop surveying your soil either, that is an important step. Remember, though, it is only the **first** step. Just stop into your nearest **DAIRY DOO** dealer to ask for help with your garden and pick up the **DAIRY DOO** products you need to transform your soil!





# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**

### **GreenhouseDoo**

**Organic!**

**GreenhouseDoo** was designed specifically for greenhouses and nurseries as an economical, all-purpose soil base that can be added onto in order to meet the nutritional needs you are looking for. It is made with 14 ingredients, including **DAIRY DOO**, and has a coarser texture for aeration and drainage.

**GreenhouseDoo** follows the principles of achieving soil health through quality ingredients and beneficial biology like **DAIRY DOO's** premium potting soils, but **GreenhouseDoo** purposely features a lower nutrient load to allow for your own customization.

*Available in: 2 cf bags, super sacks, and bulk.*



### **NurseryDoo New and Improved Recipe!**

**NurseryDoo** blends **DAIRY DOO** and **PoultryDoo** with triple ground bark, peat moss, and elemental sulfur as a pH stabilizer. This combination brings biology, carbon, organic matter, nutrients, and aeration. Simplistic in nature, this **NurseryDoo** will **DOO** you right! This product is perfect for repotting trees, shrubs, and perennials. Not intended for annuals.

*Available in: super sacks and bulk.*

### **MumDoo**

**MumDoo** is a potting soil blend designed for mums and sellable plants. It is available as an organic blend or with a synthetic wetting agent. It features 8-9 quality ingredients, depending on the wetting agent addition.

**MumDoo** was developed at a cost that is economical for plants you intend to sell. With a lower nutrient content, it will require feeding.

*Only available in bulk.*





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### **SEED STARTER 101**

Start your seeds out right!

This germination mix has a fine, soft texture, making it ideal for delicate seeds. It's also great as a blocking mix! This blend is very diverse with 14 specially picked ingredients and is **POWERED BY DAIRY DOO**.

For best results, saturate the potting soil before planting. Plants should not need to be fertilized for up to 4 weeks after planting.

Available in 1 cubic foot bag, 8 quart bags, super sack, and bulk by the cubic yard. This soil is weed free.



**Organic!**



**Seed Starter 101**  
includes mycorrhizal  
fungi to aid in  
germination!



**Healthy root development starts in healthy soil!**

**NOW BEING USED IN 15 DIFFERENT STATES!**



# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**

### **FlowerDoo 201**

Grow the most beautiful blooms in your flower bed or indoor container with **FlowerDoo 201**. High in phosphorous, it promotes healthy, vibrant blooms. It contains 18 organic ingredients, including **WormDoo**, and is **POWERED BY DAIRY DOO**.

For best results, wet soil well before use. Available in 1 cubic foot bag, 8 quart bags as **POTTING SOIL 201**, super sack, and bulk by the yard. Pairs well with **HEALTHY GARDEN** and **BloomBlaster** fertilizers. This soil is weed free.



**Organic!**

### **VeggieDoo 301**

For use with containers, raised beds, or vegetable transplants. **VeggieDoo 301** has over 77 different minerals to grow nutrient-dense plants. Nutrient-dense plants produce fruits and veggies with better flavor - perfect for garden-to-table meals. Crafted with 15 organic ingredients, and **POWERED BY DAIRY DOO**, **VeggieDoo 301** provides just what your plants need!

For best results, wet soil well before use. Available in 1 cubic foot bag, super sack, and bulk by the yard. Works well with **HEALTHY GARDEN** and **VeggieBlaster** fertilizers. This soil is weed free.



**Organic!**



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### **Tree'nShrub**

**Tree'nShrub** is a hand-crafted organic soil for lush green growth and provides vibrant, colorful foliage for the season.

Our exclusive recipe jump-starts trees and shrubs with the **POWER OF DAIRY DOO**, **PoultryDoo**, Tennessee Brown Rock for added phosphorus, and ground bark. This combination creates a light mix of air space as well as water holding capacity, perfect for your trees and shrubs, establishing landscape, or plant care. Bulk amounts also available.

*Available in: 1 cf bags, super sacks and bulk.*



### **TOPSOIL BLEND**

Our **TOPSOIL BLEND** is **POWERED BY DAIRY DOO** with a perfect mix of peat and topsoil. It is quickly becoming Michigan's most reputable topsoil.

**TOPSOIL BLEND** is screened and mixed to perfect proportions that will take projects to the next level.

We recommend a 3 inch base minimum of **TOPSOIL BLEND** for establishing lawns.

*Available in: 1 cf bags, super sacks and bulk.*

Note: **TOPSOIL BLEND** is not weed free.





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### SAFE GREEN LAWN 10-0-4 0.5%Ca

The best lawn on the block is **POWERED BY DAIRY DOO** and humates! Achieve a lush, green lawn that is fortified with solid biology, without the use of phosphorus or chemicals! This granulated fertilizer works with new or existing lawns and is safe for use around kids, pets, lakes, rivers, and streams.

Apply **SAFE GREEN LAWN** at least 3 times a year using a broadcast spreader. For new lawns, a 25 lb bag covers 2,500 sq ft. Available in 25 lb bags and 1 ton super sacks.



Photo provided by Wirth Landscaping & Construction, shows a visible line where they stopped applying Safe Green Lawn.



#### How to Use and Apply SAFE GREEN LAWN

Established Lawns	New Lawns
Apply 5 - 10 lbs per 1,000 sq ft 3 times per year.	Apply 10 lbs per 1,000 sq ft before seeding or sodding.
Holidays help you remember your applications! Apply around Memorial Day, 4th of July, and Labor Day.	Mix into the top inch of soil. Keep seed or sod bed moist to ensure establishment.
For established lawns, 1 bag covers 5,000 sq ft.	For new lawns, 1 bag covers 2,500 sq ft.



**Morgan Composting**

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**We *DOO* Happy Customers ...**

## **Habitat for Humanity Home**



**Before**



**After - Just 4 weeks later!**

*"What a great result for this Habitat for Humanity lawn. Morgans gave us the perfect recipe for overcoming the sandy and acid soil that existed beneath the red pine forest in Tustin. Can't recommend Morgan Composting enough for those having troubles establishing a lawn or a turf in any environment."*

*- Will G.*



*"Yesterday we took delivery of 70 yards of 'black gold' from Morgan Composting. Their DAIRY DOO premium compost has been powering our farm since Day 1. This year we wisened up and scheduled delivery for the end of the season instead of spring. The thing is, we don't live on a Class A road, so spring Frost Laws can really restrict when we can receive large trucks of important materials. Now we can rest easy knowing that our DAIRY DOO is on the premises and spring planting can commence as soon as we need to! Obviously we've got a long ways to go before spring... A pile of perfect compost is like having money in the bank. The best Christmas gift for the plants and the soil! And peace of mind for the Farmers!"*

*- Bear Creek Organic Farm*



**Hydroseed with DAIRY DOO**

by

**H & H**

**LANDSCAPE SUPPLY**

**Before**

**After**



# GREENHOUSE & NURSERY

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### HEALTHY GARDEN 7-6-5 5%Ca

Garden need a little pick-me-up? **POWERED BY DAIRY DOO**, this product is jam-packed with organic, all-natural and plant available nutrients your plants will love. **HEALTHY GARDEN** is also a great source of calcium- perfect for even those heavy feeding plants! This all-natural, organic, and chemical-free fertilizer is completely safe to use on edible plants.

Spread by hand, broadcast applicator, or by using a spreader.

Available in 4lb, 25lb bags and 1 ton super sacks.

**Organic!**

#### How to Use and Apply HEALTHY GARDEN 7-6-5

Flower Beds	New Veggie Garden	Established Veggie Garden	Plants in Containers
Apply 1-2 lbs per 100 sq ft or sprinkle 1-2 tbsp per foot of plant height around each plant.	Apply 10-15 lbs per 500 sq ft before planting and till in 4 inches.	Apply 2-3 lbs per 500 sq ft or sprinkle 1 tbsp per foot of plant height around each plant.	Sprinkle 1 tbsp per foot of plant height around each plant.

### Organic NKDoo 10-0-4

**Organic NKDoo** is an organic, granulated fertilizer that is rich in nitrogen and potassium while omitting phosphorus completely. This fertilizer will help improve yields, stabilize nitrogen, strengthen stalks, and develop a stronger root system.

**Organic NKDoo** is made with humates, zeolite, and **DAIRY DOO**, making it a great source of the right biology to bring tired soils back to life. Use **Organic NKDoo** with any general agricultural application such as row crops, vegetable production, fruit trees, and even turf!

Available in: 40lb bags, 1 ton super sack, and bulk.

**Organic!**



### ALL PURPOSE 8-4-4 4%Ca

Our premium **ALL PURPOSE** fertilizer is designed for all uses including lawns and gardens. With extra calcium to help with plant strength, it is a well-rounded fertilizer that's **POWERED BY DAIRY DOO**.

Formulated with a base of poultry manure, this product furthers our recycling efforts and remains both sustainable and easy to use.

Granulated for easy spreading. Available in 40lb bags, 1 ton super sacks, and bulk.

#### How to Use and Apply ALL PURPOSE 8-4-4

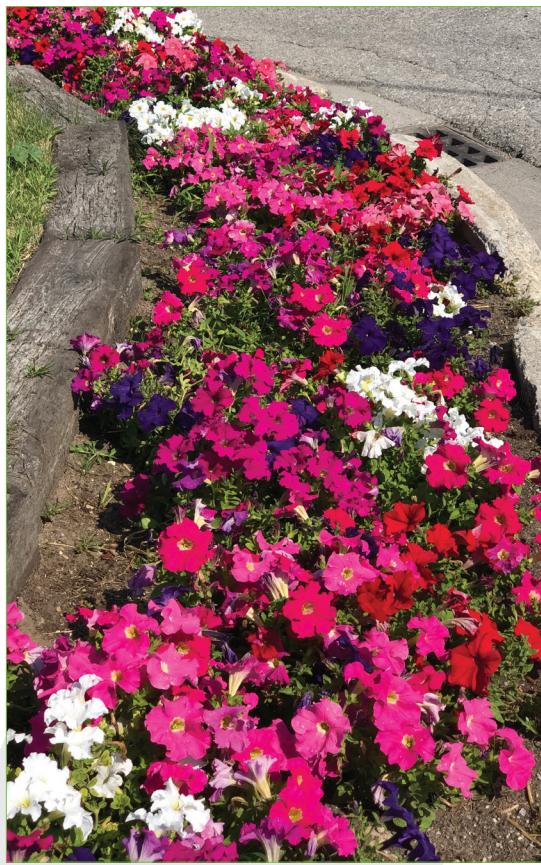
Flower Beds	New Veggie Garden	Established Veggie Garden	Plants in Containers	New Lawns	Mature Tree	Newly Transplanted Tree	New Food Plot	Established Food Plot
Apply 1 lb per 100 sq ft or sprinkle 1-2 tsp around each plant.	Apply 10-15 lbs per 500 sq ft before planting and till in 4 inches.	Apply 2-3 lbs per 500 sq ft or sprinkle 1 tbsp per foot of plant height around each plant.	Sprinkle 1 tbsp per foot of plant height around each plant.	Apply 10 lbs per 1,000 sq ft before seeding or sodding. Mix into the top inch of soil. Keep seed or sod bed moist to ensure establishment.	Spread 2-2.5 lbs per inch of trunk diameter in early spring or late fall. Start a minimum of 1 ft from the trunk and move outward in concentric circles until you reach 2-3 feet beyond the canopy.	Spread 0.5-1 lb per inch of trunk diameter in early spring or late fall. Start a minimum of 1 ft from the trunk and move outward in concentric circles until you reach 2-3 feet beyond the canopy.	Spread 600-800 lbs per acre. Can be applied the same day as lime and seeds.	Spread 200-400 lbs per acre. Can be applied the same day as lime and seeds.



**Morgan Composting<sub>LLC</sub>**

# **GREENHOUSE & NURSERY**

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*The beauty of using **DAIRY DOO** products*



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# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**



# **DAIRY DOO's**

# **Blaster Line**

**For easy feeding**

**VeggieBlaster** from **DAIRY DOO** feeds your vegetable plants what they need:

- Minerals** - Increases flavor for better tasting produce!
- Kelp** - Improves stress and immune response, like vitamin C for your plants!
- FulvicBlaster** - Accelerates plant growth and nutrient uptake!

Net Contents: 1 Qt, 32 fl oz (944 ml) / Net Weight: 2.5 Lbs. per Qt (1.13 Kg)  
4353 US 10, Sears, MI 49679 dairydoo.com

### **VeggieBlaster 8-1-8**

*-Liquid Plant Food-*

Enjoy an abundant harvest from your vegetable plants with this easy-to-use fertilizer! This liquid vegetable food promotes nutrient-dense veggie growth and lush foliage.

**VeggieBlaster** creates tasty and healthy plants that are better able to resist the stress of summer heat, drought, or pests!

#### **Made with:**

**Minerals** - Increases flavor for better tasting produce!

**Kelp** - Improves stress and immune response, like vitamin C for your plants!

**FulvicBlaster** - Accelerates plant growth and nutrient uptake!

**Use With:** Vegetable plants, trees, and shrubs. Only use for 3-5 seconds per plant to avoid burning.



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### **BloomBlaster 4-18-4**

*-Liquid Plant Food-*

Marvel at the beauty of your flowers all summer long! This liquid flower food promotes vibrant blooms and healthier plants that are better able to resist the stress of summer heat, drought, or pests.

**Made with:**

**Phosphorous** - Increases vibrancy and size of blooms!

**Kelp** - Improves stress and immune response, like vitamin C for your plants!

**FulvicBlaster** - Accelerates plant growth and nutrient uptake!

**Use with:** All flowering plants. Only use for 3-5 seconds per plant to avoid burning.



### **FruitBlaster 1-5-13**

*-Liquid Plant Food-*

Enjoy a more delicious and plentiful yield off your fruit trees and berry plants this summer! **FruitBlaster** improves the flavor of your grapes, berries, and other fruits. This liquid plant food also promotes a more uniform fruit set.

**Made with:**

**Potassium** - Improves the flavor of your fruit!

**Kelp** - Improves stress and immune response, like vitamin C for your plants!

**FulvicBlaster** - Accelerates plant growth and nutrient uptake!

**Use with:** Grapevines, berries, and fruit trees.



### **TurfBlaster 11-0-5**

*-Liquid Plant Food-*

Feed your lawn to make it the vibrant green you love with this easy-to-use fertilizer! **TurfBlaster** is a great way to boost your lawn during the hot summer months. This liquid lawn food keeps grass roots healthy which helps combat against pests too.

**Made with:**

**Iron** - Helps grass develop rich, green color!

**Kelp** - Improves stress and immune response, like vitamin C for your plants!

**FulvicBlaster** - Accelerates plant growth and nutrient uptake!

**Use with:** Sports fields, golf courses, and residential or business lawns.

The blaster line is also available in quarts, 2.5 gallon jugs, 55 gallon drums, 250 gallon totes and tankers.

Visit us online at [dairydoo.com](http://dairydoo.com)





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# GREENHOUSE & NURSERY

## GROWER CATALOG

Terramera<sup>®</sup>

# RANGO<sup>™</sup>

NEW



## ONE PRODUCT, TRIPLE CONTROL FUNGICIDE + INSECTICIDE + MITICIDE

Proven broad spectrum control of major diseases and insects including downy & powdery mildew, botrytis, leafrollers, lepidoptera species (worms), whiteflies, true bugs, thrips and spider mites among others.



## WHY RANGO



Highly efficacious tool for controlling fungal diseases, insects, and mites.



With Multiple Modes of Action and no known resistance, RANGO is an excellent tank-mix/rotation partner in IPM programs.



Registered for use on a wide range of crops: berries, leafy greens, cole crops, fruiting vegetables, cucurbits, tree nuts, tree fruit, stone fruit, potatoes and onions.

## TECHNICAL OVERVIEW

- 70% Cold pressed neem oil
- 150+ bioactives including Azadirachtin
- 0-day PHI
- 4-hour REI
- No known Resistance  
"NC FRAC code"

**Try RANGO<sup>™</sup> today.**

For more information visit [www.rangonow.com](http://www.rangonow.com)



Scan for  
field trials

Need more info? Call 231-734-2451 and speak to one of the **DOO CREW.**



# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**

### **RANGO™: an effective and organic broad-spectrum biopesticide**

#### **What makes RANGO different from others?**

- RANGO™ is a plant-derived broad-spectrum biopesticide for the control of insects and diseases in organic and conventional operations.
- RANGO is registered for use on a wide range of crops: berries, leafy greens, cole crops, apples, fruiting vegetables, cucurbits, tree nuts, citrus, stone fruit, potatoes and onions.
- RANGO is a high quality, 70% cold-pressed neem oil containing over 150 active limonoids including azadirachtin. Limonoids have activity on a variety of different organisms including insects, mites and diseases.
- The cold-pressed process in the formulation of RANGO uses no synthetic solvents and preserves the integrity of the active ingredient.
- RANGO is formulated in a synthetic pesticide-free facility in the USA.

#### **Labelled Insects & Diseases**

##### **Diseases**

- Anthracnose
- Botrytis
- Downy mildew
- Powdery mildew
- Molds
- Blight
- Leaf Spots
- Scab

##### **Insects**

- Aphids
- Thrips
- Spider mites
- Whiteflies
- Lepidoptera species (worms)
- Plant Bugs

#### **Application Rates**

<b>Pest Type</b>	<b>Rate Range</b>
Insects	0.625 to 1.8% v/v
Mites	0.625 to 1.8% v/v
Diseases	1.25 to 1.8% v/v

*Refer to product label for complete list of insects, mites, diseases and rate dilution tables for labeled crops.*

**Scan to download  
the product label**





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# GREENHOUSE & NURSERY

## GROWER CATALOG

**AgroThrive<sup>®</sup>**  
ORGANIC BIO-FERTILIZERS

**ORGANIC**

# Fruit & Flower

## LIQUID FERTILIZER

FORMULATED  
**3-3-5**

POTASSIUM  
ENHANCED



FORMULATED FOR  
**Fruits, Flowers & Berries**

MIX BEFORE APPLYING  
NET CONTENTS 55gal | 208L

**AgroThrive Fruit & Flower Liquid Fertilizer** is a premium organic bio-fertilizer formulated to meet the needs of fruit and flower bearing plants. **HOW DOES IT WORK?** Our organic bio-fertilizer feeds plants and enhances soil microbial activity helping release nutrients from the soil, increasing availability to plants.

**WHAT'S THE RESULT?** Faster growth, higher yields, bigger flowers, and flavorful fruits.

**OUR BIO-FERTILIZERS** are made from nutritious organic materials that may otherwise end up in landfills and harm the environment. Our proprietary technology safely converts these materials into a beneficial plant food that improves plant and soil quality, while eliminating harmful pathogens in the process.

**CAN BE USED FOR:** Soil drench, foliar feeding, hydroponics, and other fertilizing systems.

**MANUFACTURED BY:**

AgroThrive, Inc. 26775 Old Stage Road, Gonzales, CA 93926  
888 449.2853 | [www.agrothrive.com](http://www.agrothrive.com)

AgroThrive, Inc. makes no guarantee, express, implied or statutory, whatsoever with respect to the product condition, performance or its adequacy for any use, which extends beyond the use of the product under normal conditions. Compatibility with other products should always be first tested by "mixing in a jar" before application.

Meets the National Organic Program requirements for organic production.

**GUARANTEED ANALYSIS:**

Total Nitrogen (N)	3.0%
2.41% Water Soluble Nitrogen	
0.59% Water Insoluble Nitrogen	
Available Phosphate (P <sub>2</sub> O <sub>5</sub> )	3.0%
Soluble Potash (K <sub>2</sub> O)	5.0%

**DERIVED FROM:** Corn steep liquor, fermented fish by-products and sulfate of potash. Density 9.8lb/gallon (US) at 68°F Information regarding the contents and levels of metals in this product is available on the internet at [www.aapfco.org/metals.html](http://www.aapfco.org/metals.html).

**RECOMMENDED APPLICATION RATES**

Application Method	Row Crops & Grass (gpa)	Trees & Vines (gpa)
Flood or Sprinkler	15-40	20-40
Sprayer or Shank	15-40	20-40
Drip Tape	5-25	10-20



This product was made in a solar powered facility.



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### **Take a Look at the Liquid Line from DAIRY DOO**

*When you are into the middle of the growing season using soils with deficiencies or your plants are in stress, what can you do?*

A liquid **DAIRY DOO** product can help. By combining one of our liquid products with other foliar applications you already plan to do, such as irrigation, herbicides, or pesticides, you can get the short-term fix you need to get your crop through until harvest with very little additional cost. Made with humic and fulvic acids and kelp, our products, such as **HumiKelp** and **Kelpful**, will get you the carbon you need, increase plant resistance to stress, and produce a better crop at the end of the season.

"Any plant in Michigan right now, at some point and time, they're always going to be looking at either drought stress, insect stress,



over-water stress, but there's always going to be a stress. These products can make a big difference [and] anytime that sprayer or that planter or anything can go that I can apply carbon within that system, I look at that as a free ride. The cost of the material becomes very, very minimal," says Brad Morgan. "Our company has always been very strong in soil health and making certain that we have good economic sense of the products that we're putting together. So as we walk into the liquid market we want to make sure people understand what we are trying to achieve. Understand liquids are not necessarily a whole soil management plan but they sure can be a nice boost when you see that there's some sort of deficit within your system."

*The liquid barn at Morgan Composting's Sears location where fulvic and humic acids are manufactured.*



#### **Humic Acid**

- Builds microbial life
- Repairs soil structure
- Larger molecule size, works better in the soil

#### **Fulvic Acid**

- Increases nutrient uptake
- Increases fertilizer efficiency
- Smaller molecule size, works better used as a foliar

#### **Kelp**

- Like a vitamin C for your plants- improves resistance to stress and provides greater immunity to diseases



# GREENHOUSE & NURSERY

## GROWER CATALOG

Dosatron fertilizer injectors can be used in a variety of installations and configurations. Use **BloomBlaster**, **VeggieBlaster**, **Turfblaster**, or **AgroThrive** in a drip irrigation setting for your store, greenhouse, or field with your Dosatron System. For more information on the different models and application rates, visit <https://www.dosatronusa.com/fertilizer-injectors-for-irrigation> or call Morgan Composting for application rates and product suggestions.



### AgroThrive Organic Liquid Fish 3-3-2



This is a premium organic fertilizer that is pathogen-free, meeting all food safety standards. With a guaranteed analysis of 3-3-2, it increases nutrient supplies in the soil and stimulates existing microbes.

AgroThrive 3-3-2 is available in quarts, 1 gal, and 2.5 gal jugs.

AgroThrive 2-2-1 is available in 55 gal and 250 gal sizes.



### CalBlaster w/Mg

This liquid fertilizer for foliar feeding will reduce plant stress, aide plant growth and development, and correct nutrient deficiencies in plants that require more abundant supplies of calcium and magnesium. CalBlaster w/Mg is especially great for tomatoes, peppers, hops, hemp, and cannabis.

Available in 1 gal and 2.5 gal jugs, 55 gal drum and 250 gallon totes.



# GREENHOUSE & NURSERY

## GROWER CATALOG



## KelpFul

**KelpFul** effectively combines the benefits of both fulvic acid and sea kelp extract. Kelp contains many plant hormone promoters that stimulate desired responses within your crop. The unique ability of kelp to relieve stresses is further aided by the action of fulvic acid to draw these effective compounds into the cells of the plant. It can also reduce transplant shock or chemical burn from over application of fertilizers. Many of the other benefits of this combined product are improved quality attributes, such as firmness, color, size and crop uniformity. **KelpFul** is an excellent vehicle for other fertilizers, chemicals, or natural minerals to get into the plant and translocated with its structure. It will combine well with most compounds, making it easy to use in the field. Because it can improve the efficiency of whatever it is combined with, many farmers and they can use less fertilizer while still being effective.



### Foliar Application:

Apply 1 to 4 gallons (4 to 15 liters) per acre of **KelpFul** with 10 to 50 gallons (40 to 190 liters) of spray solution (rate dependent on frequency of application).

For use with field crops, vegetables, fruit and nut trees, vines, brambles, turf grass, flowers and ornamentals, etc. etc. etc.

### Fertigation:

Use 1:100 dilution or 1 to 4 gallons (4 to 15 liters) per acre. Repeat application every 7 to 14 days.

### Mixing Instructions:

Can be used by itself or in combination with some fertilizers, herbicides, and fungicides.

- Fill tank halfway with required water
- Start agitation and continue with it during filling and application

## Benefits at a Glance



### Benefit One

Carbon source designed for foliar application



### Benefit Three

Translocates nutrients throughout the plant



### Benefit Two

Excellent for stress relief



### Benefit Four

Easily combined with most fertility programs

- Begin to add **KelpFul** making sure it is thoroughly mixed
- Add in complimentary nutrient fertilizers or chemicals until you achieve the desired concentration

Available in 1 gallon and 2.5 gal jugs,  
55 gal drum and 250 gallon totes.



# GREENHOUSE & NURSERY

## GROWER CATALOG



### HumiKelp

**HumiKelp** combines the qualities of humic acid and sea kelp extract including retaining nutrients, increasing cation exchange capacity, and feeding soil biology root growth, improved nutrient uptake, and water retention. This cutting-edge technology also aids your crop in resisting and buffering against biotic and abiotic stresses. Do to the synergistic effects of humic acid and sea kelp extract your plants will be healthier and more productive. In combination with nitrogen, it is particularly effective on grasses and cereal grasses. For fruits and vegetables, it has been shown to improve the quality of the crop, including better color, enhanced flavor, longer shelf life and improved storage.



#### In-furrow Application:

Apply 1 to 2 quarts (1 to 2 liters) per acre of **HumiKelp** with 2 to 5 gallons (12 to 20 liters) of fertilizer solution.

#### 2 x 2 Starter Application:

Apply 2 to 4 quarts (2 to 4 liters) per acre of **HumiKelp** with 5 to 20 gallons (20 to 75 liters) of fertilizer solution.

#### Side Dress Application:

Apply 1 to 4 gallons (4 to 15 liters) per acre of **HumiKelp** with 5 to 20 gallons (20 to 75 liters) of fertilizer solution.

#### Foliar Application:

Apply 1 to 2 gallons (4 to 8 liters) per acre of **HumiKelp** with 10 to 50 gallons (40 to 190 liters) of water (rate dependent on frequency of application). For use with field crops, vegetables, fruit and nut trees, vines, brambles, turf grass, flowers and ornamentals, etc.

#### Fertigation:

Use 1:100 dilution or 1 to 2 gallons (4 to 8 liters) per acre. Repeat application every 7 to 14 days.

#### Mixing Instructions:

Can be used by itself or in combination with most fertilizers, herbicides, and fungicides.

### Benefits at a Glance



- Fill tank halfway with required water
- Start agitation and continue with it during filling and application
- Begin to add Fulvic Acid making sure it is thoroughly mixed
- Add in complimentary nutrient fertilizers or chemicals until you achieve the desired concentration

Available in 1 gallon and 2.5 gal jugs,  
55 gal drum and 250 gallon totes.



# GREENHOUSE & NURSERY

## GROWER CATALOG

**Organic!**



### FulvicBlaster (2.6 pH)

**FulvicBlaster** is a highly concentrated, liquid carbon product designed for foliar application. It is a natural source of carbon that binds to and carries a wide range of trace minerals and elements, drawing them in between the cells of the plant. Once in the plant, it helps stimulate plant metabolism by translocating nutrients throughout the plant. It also improves nutrient efficiency and increases enzyme activity and cell division, increasing growth. In soil-less greenhouse mediums, it is a valuable addition to the environment, creating stability by buffering and reducing stress to the young, emerging seedlings.



#### Foliar Application:

Apply 1 to 2 quarts (1 to 2 liters) per acre of

**FulvicBlaster** with 10 to 20 gallons (38 to 75 liters) of spray solution (rate depending on frequency of application).

#### Fertigation or

#### Transplant Water:

Use at 1:100 dilution or 1 to 4 quarts (1 to 4 liters) per acre. Repeat application every 7 to 14 days.

#### In-furrow Application:

Apply 1 to 2 quarts (1 to 2 liters) per acre of

**FulvicBlaster** with 3 to 5 gallons (12 to 20 liters) of fertilizer solution.

#### 2 x 2 Starter Application:

Apply 2 to 4 quarts (2 to 4 liters) per acre of

**FulvicBlaster** with 5 to 20 gallons (20 to 75 liters) of fertilizer solution.

#### Mixing Instructions:

Can be used by itself or in combination with most fertilizers, herbicides, and fungicides.

- Fill tank halfway with required water.

### Benefits at a Glance



#### **Benefit One**

Essential organic acid derived from leonardite.



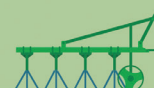
#### **Benefit Three**

Natural chelating agent improves efficiency of combined chemistry.



#### **Benefit Two**

Promotes beneficial soil microbes.



#### **Benefit Four**

Small molecular size allows better movement through plant cell walls.

- Start agitation and continue with it during filling and application.
- Begin to add **FulvicBlaster** making sure it is thoroughly mixed.
- Add in complimentary nutrient fertilizers or chemicals until you achieve the desired concentration.

Available in 1 gal and 2.5 gal jugs,  
55 gal drum and 250 gallon totes.



# GREENHOUSE & NURSERY

## GROWER CATALOG



## HumicBlaster

**HumicBlaster** is a ready to use liquid soil conditioner designed for soil application. It is a natural source of carbon to help increase the soil organic matter. This improvement allows the soil to better hold on to both nutrients and water by, improving the efficiency of any product. The organic acids and sugars contained in it work to stimulate and support a strong microbial population, and are essential to plant health. Humic acid is very good at tying up salts in the soil, preventing some of the negative effects of high salt. The alkalinity of this product makes it non-corrosive and easy to work with in regards to blending with other products. Its low viscosity makes it easy to use in sprayers, nozzles, and various irrigation systems.



### In-furrow Application:

Apply 1 to 2 quarts (1 to 2 liters) per acre of **HumicBlaster** with 3 to 5 gallons (12 to 20 liters) of fertilizer solution.

### 2 x 2 Starter Application:

Apply 2 to 4 quarts (1 to 2 liters) per acre of **HumicBlaster** with 5 to 20 gallons (20 to 75 liters) of fertilizer solution.

### Side Dress Application:

Apply 2 to 4 quarts (2 to 4 liters) per acre of **HumicBlaster** with 5 to 20 gallons (20 to 75 liters) of fertilizer solution.

### Foliar Application:

Apply 1 to 4 quarts (1 to 4 liters) per acre of **HumicBlaster** with 10 to 20 gallons (38 to 75 liters) of water (rate depending on frequency of application).

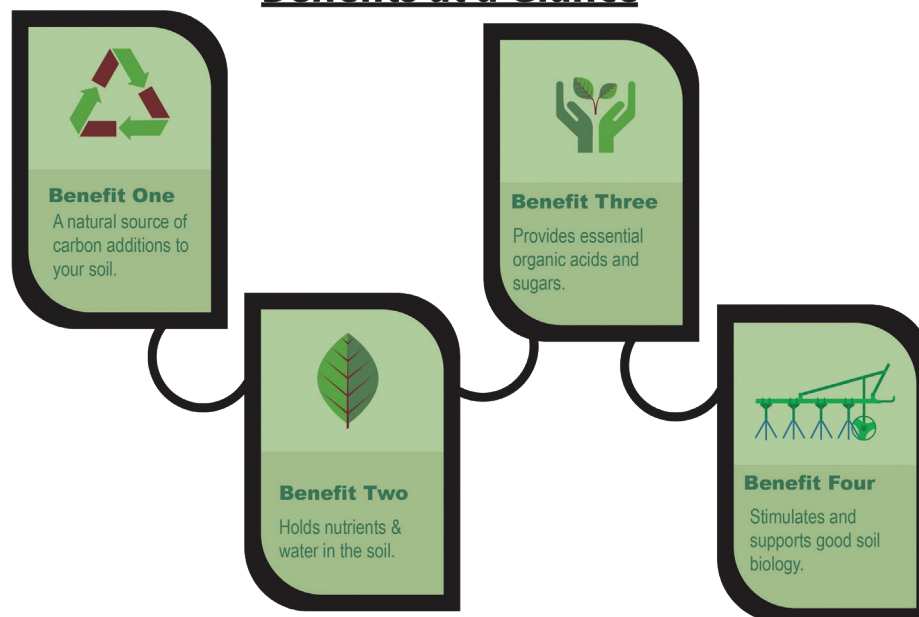
### Fertigation or Transplant Water:

Use at 1:100 dilution or 1 to 4 quarts (1 to 4 liters) per acre. Repeat application every 7 to 14 days.

### Mixing Instructions:

Can be used by itself or in combination with most fertilizers, herbicides, and fungicides.

## Benefits at a Glance



- Fill tank halfway with required water
- Start agitation and continue with it during filling and application
- Begin to add **HumicBlaster** making sure it is thoroughly mixed
- Add in complimentary nutrient fertilizers or chemicals until you achieve the desired concentration

Available in 1 gallon and 2.5 gal jugs,  
55 gal drum and 250 gallon totes.

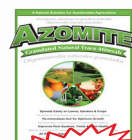


# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**

### **SOIL CONDITIONERS**

#### **Azomite** - Soil amendment that



**Organic!**

contains over 70 different trace minerals, helping you grow nutrient rich crops. Use this product to provide season-long feeding to your plants. Available in Granulated, Micronized and Slow-Release. We have 10lb bags, 44lb bags and bulk super sacks. Call for size availability.

#### **Calcium Nitrate - YaraLiva**



**Organic!**

**Calcinit** (Water Soluble) Calcium nitrates provide fast-acting nitrate-N, alongside strength-building calcium. These nutrients fuel prolonged growth. Plants and trees treated with calcium nitrate are naturally healthier and less sensitive to stress during growth. Available in 50lb bags.

**Carbonatite** - Spanish River Carbonatite is a type of rock that, when turned into powder, can be used as a slow-releasing lime. It can also serve as a source of additional potassium and magnesium in the soil and contains 70 different trace elements. Available in 40lb bags and 2,000lb super sacks.



**Organic!**

#### **Chilean Nitrate 15-0-2** -



**Organic!**

Chilean Nitrate is a soluble form of organic nitrate nitrogen. It is great for mid-season applications where nitrogen is immediately necessary. Only recommended in small doses. Available in 50lb bags and 2,645lb super sacks.

#### **Coconut Coir** - This is fiber



**Organic!**

from the husk of coconuts, with a neutral pH and high nutrient holding capacity. It is a renewable alternative to peat moss that helps loosen soils to increase oxygen to the root systems. Available in 10.6lb bricks.

#### **Colloidal Phosphate** (Soft



**Organic!**

Rock Phosphate) - Colloidal Phosphate is slow-releasing phosphorus, best used around plants that hold blooms for a long period of time. Available in 50 lb bags and 2,000lb super sacks.

#### **Crab Shell Flour** - an excellent



**Organic!**

dry organic source of NPK, Calcium (23%) and Magnesium (1.33%). Crab Shell Flour will also help to create soil conditions that are naturally growth-suppressing for grubs, fungal organisms and other insects. Available in 44 lb bags or 2,000lb super sacks.

#### **Diatomaceous Earth** - This



**Organic!**

is a natural product that comes from fossilized sea microorganisms. It is a natural insecticide that gets rid of aphids, ants, mites, and more. Available in 50lb bags.

#### **Elemental Sulfur** - Elemental



**Organic!**

sulfur lowers the pH of soil and improves soil microbial health. With pH in balance, nutrients are available. Available in 50lb bags and 2,000lb super sacks. Available in 50 lb bags and 2,000 lb super sacks.

#### **Feather Meal** - Feather



**Organic!**

Meal is a slow-release nitrogen source. It increases green leaf growth, stimulates soil biology, and improves soil structure. Available in 30lb bags and 1,000lb super sacks.

#### **Humates** (Coarse Chips and Source



**Organic!**

X) - Humates are the purest form of natural organic carbon. Humates contain humic, fulvic, and ulmic acid and will boost crop production, strengthen root development, and improve soil quality. Available in 40lb bags and 2,000lb super sacks.

#### **K\* Ash (Sunflower Ash)** - A source of



**Organic!**

34% potassium from renewable source (not mined) with 4% phosphorus plus trace elements. Enriches the soil and tempers acidity. Improves soil structure and microbial flora. Beneficial for flowers and perennials when mixed with compost and other organic materials. Available in 40 lb bags and 2,000lb super sacks.

#### **K Mag (Intrepid Trio)**



**Organic!**

- This granular fertilizer improves crop quality and yield with potassium, magnesium, and sulfur. It is water soluble with a neutral pH. Available in 50lb bags and 2,000lb super sacks.

#### **Kelp Meal** - Kelp meal is



**Organic!**

made from dried ocean seaweed. It is full of beneficial micro- and macro-nutrients. Kelp meal improves plants' resistance to disease, boosts leaf production, and enhances crop size. Available in 40lb bags and 2,000lb super sacks.

#### **Meat & Bone Meal** - Meat



**Organic!**

& Bone Meal is an organic source of nitrogen, phosphorus, and calcium. It can help with soil structure. Available in 30lb bags and 2,000lb super sacks.

#### **Muriate of Potash 0-0-60**



**Organic!**

- Muriate of Potash is non-organic potassium chloride. Potassium is important for root development, fruit formation, and stress tolerance. Can certify organic upon request. Available in 50lb bags and 2,000lb super sacks.



# GREENHOUSE & NURSERY

## GROWER CATALOG

### SOIL CONDITIONERS

#### Mycorrhizal Fungi



**Organic!**

- These fungi are helpful for seed germination, boosts a plant's immune system, and helps keep parasitic nematodes away. It also helps plants survive in non-typical environments. Available by the pound.

#### NutraLime (Dolomite)



**Organic!**

- This pelletized lime contains calcium and magnesium. It provides quick pH adjustments - essential to growing in the soil. High calcium or high magnesium lime is also available. Can certify organic upon request. Available in 40lb bags.

#### NutraSoft Gypsum - This



**Organic!**

pelletized gypsum (calcium sulfate) provides calcium and sulfur to your plants. It has a neutral pH and is beneficial in loosening clay soils. Available in 40lb bags.

#### Paramagnetic Rock -



**Organic!**

Paramagnetic rock is volcanic rock dust (basalt) that increases water retention and microbial stimulation. It also aids in nutrient uptake and seed germination. Available in 50lb bags and 2,000lb super sacks.

#### Perlite - Perlite is a volcanic



**Organic!**

mineral used for drainage and root strength. It has a neutral pH, is odorless, and non-toxic. It is available in medium, coarse, and super coarse in 4 cubic foot bags and 60 cubic foot bales.

#### Potassium Nitrate



**Organic!**

(Yara) - This is a water soluble source of potassium and nitrate that is chloride free. It can be used in a dripline. Excellent for tomatoes! Available in 50lb bags and 2,000lb super sacks.

#### Pumice - Pumice is natural



**Organic!**

volcanic rock. It has a neutral pH and does not break down or compact. Adding pumice to the soil improves soil drainage and aeration. Available in 5lb bags, 30lb bags, and 1,500lb super sacks.

#### Rice Hulls - Rice hulls are



**Organic!**

excellent for improving soil structure and drainage and are a good source of silica. This renewable resource is a great replacement for vermiculite. Available in 7cf bags and 90cf bales.

#### Sphagnum Peat - When mixed



**Organic!**

with compost, sphagnum peat helps control compaction in soil. It helps with aeration, allowing nutrients, water and air to reach the plant's roots. Adding peat to your garden or containers will allow for longer water retention as well. Available in 3.8 cubic foot bales and 55 cubic foot bales.

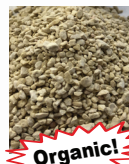
#### Sulfate of Potash 0-0-50



**Organic!**

(Solution Grade) - This OMRI listed, solution grade form of potassium and sulfur is low in chloride. It is excellent for greenhouses and driplines. Available in 50 lb bags .

#### Sulfate of Potash 0-0-50 -



**Organic!**

Sulfate of potash is one of the highest sources of organic potassium. It also offers sulfur. Available in 50 lb bags and 2,000 lb super sacks.

#### Super Green Sand -



**Organic!**

Super Green Sand is a great source of potassium and helps to retain water and nutrients. It improves plant health and can also loosen solid soils. Available in 11lb and 44lb bags.

#### Tennessee Brown Rock Phosphate



**Organic!**

(Hard Rock Phosphate) - This is the cleanest and most affordable slow-release phosphorus. It increases photosynthesis, forage quality, and the plant's immune system. It also stimulates microbes. Available in 50lb bags and 2,000lb super sacks.

#### Vermiculite - Vermiculite provides



**Organic!**

aeration and retention of minerals and moisture. It is pH neutral and non-toxic. Vermiculite aids in seed germination and enables plants to absorb potassium, calcium, and magnesium more efficiently. Available in 4 cubic foot bags.

#### Wollastonite - Wollastonite



**Organic!**

can neutralize soil acidity, help suppress diseases, and supply calcium and silicon. Available in 40lb bags or 2,000lb super sacks.

#### More minerals available

- too many to list!
- Ammonium Sulfate
- Boron 10%
- Blood Meal
- Calcium Nitrate
- Copper 12% Cu
- Gypsum (mined)
- To name a few!



# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**

### **Study shows using **DAIRY DOO** with fruit trees results in 3X the yield!**



Dr. George Bird, of the Department of Entomology at Michigan State University, has been doing a study for the last five years on the impact of compost and mulch on the establishment of cherry trees. For his study, he used **DAIRY DOO** products. On some trees he tried adding **Seed Starter 101**, an organic potting soil that

includes **DAIRY DOO** compost but is gentle enough for bare-root planting, at the bottom of the planting hole and **DAIRY DOO** compost as a topdress. In others, he added seed mulch and/or omitted the **Seed Starter 101**. His control group did not receive any compost or mulch.

The conclusion of the study was impressive! Dr. Bird found that cherry trees that were given **Seed Starter 101** at the bottom of their

planting hole in addition to **DAIRY DOO** compost as a topdress had a yield increase of over 236% versus the control trees that did not receive any compost!

Interested in more than 3x your current fruit yields? It is time to think about what **DAIRY DOO** products can **DOO** for you!



#### **Impact of at-planting compost and mulch on 2019 mechanically harvested sweet cherry yields.**

Treatment	Yield (lbs)
Seed Starter 101, Dairy Doo and Mulch	42.5
Seed Starter and Mulch	47.3
Seed Starter and Dairy Doo	52.5
Dairy Doo and Mulch	38.8
Non-Treated Control	15.6


*From Impact of Compost and Mulch on the Establishment of Sweet Cherry Trees by George Bird, Nikki Rothwell, Karen Powers, and Bill Klein, Department of Entomology, Michigan State University (Lansing, MI) and Northwest Horticultural Research Center (Traverse City, MI).*



# GREENHOUSE & NURSERY

## GROWER CATALOG

### FERTILIZER GUIDE

Key Terms, Definitions, and Conversions	
	
<p><b>Broadcasted Fertilizer</b> is applied evenly across the field, including the space between the rows. This is preferable when we are making changes to the overall soil profile (pH adjustment, correcting major deficiencies, applying compost, etc). Broadcast applications are generally measured per 100 sq ft. A 10'x10' area is equal to 100 sq ft.</p> <p><b>Banded Fertilizer</b> is applied directly in the row, either as single thin band 2-3 inches away from the seed/ stem OR sprinkled evenly over the row, avoiding walkways. Take care not to pile fertilizer around the stem. Banded applications reduce the amount of fertilizer needed and limit weed growth between rows. Banded applications are measured in per 100 row ft, which is equivalent to a 1 foot wide by 100 ft long row.</p> <p>If you would like to band instead of broadcast or vice-versa, you can use the same rate. 1lb/100 row ft=1lb/100 sq ft.</p> <p>If you have crops with wide root masses like grape vines, multiply the 100 row ft rate by the estimated root width. For example, if the recommendation is 1lb/100 row ft and you are spreading over a 4ft wide row, you will apply 4lb/100 row ft.</p> <p><b>Sidedress:</b> Fertilizer applied midyear, directly in row.</p> <p><b>Foliar Fertilizer:</b> Liquid fertilizer applied directly to the plants/leaves. Supplement, NOT a replacement for soil amendments.</p> <p>To convert from per 100 sq ft to per 1000 sq ft: Multiply by 10 (1lb/100 sq ft x 10 = 10lbs/1000 sq ft).</p> <p>To convert from per 100 sq ft to per acre: Multiply by 435.6 (1lb/100 sq ft x 435 = 435lbs/acre).</p>	

Preplant Fertilizer	
<p>A soil test is important in determining preplant fertilizer, ESPECIALLY for new gardens. The following rates assume the soil is well balanced, with no major deficiencies, excesses, or pH imbalances. <b>*IF YOU COMPLETED A SOIL TEST WITH MORGAN COMPOSTING, THE INCLUDED RECOMMENDATIONS REPLACE THE PREPLANT SECTION OF THIS SHEET AND YOU CAN SKIP TO THE SIDEDRESS SECTION.</b></p>	
Unamended/Virgin Soil	
DAIRY DOO <i>*Preferred</i>	1-1.5 cu ft/100 sq ft (Broadcasting Preferred)
OR	
Healthy Garden 7-6-5 OR All Purpose 8-4-4	3lbs/100 sq ft (Broadcasting Preferred)
<p>*IF USING THE HEALTHY GARDEN 7-6-5 OR ALL PURPOSE 8-4-4 RECOMMENDATIONS, USE THE VIRGIN SOIL RECOMMENDATIONS FOR 5 YEARS BEFORE SWITCHING TO THE ESTABLISHED GARDEN RECOMMENDATIONS TO ENSURE ADEQUATE PHOSPHOROUS.</p>	
Well-Balanced/Established Gardens	
DAIRY DOO <i>*Preferred</i>	0.3-0.5 cu ft/100 sq ft (Broadcasting Preferred)
NKDoo 10-0-4 <i>*Preferred</i> OR Granular 8-1-7	2lbs/100 row ft (Banding Preferred)
OR	
Healthy Garden 7-6-5 OR All Purpose 8-4-4	2.5lbs/100 sq ft (Broadcasting Preferred)
NKDoo 10-0-4 OR Granular 8-1-7	0.5lb/100 row ft (Banding Preferred)
<p>*Exceptions for well-balanced/established gardens:  <i>Onions, potatoes, and parsnips:</i> Double the rate of DAIRY DOO OR increase the HEALTHY GARDEN 7-6-5 or ALL PURPOSE 8-4-4 by 50%  <i>Established asparagus, snap beans, dill, ginseng, peas, radishes, and sweet potatoes:</i> Reduce preplant fertilizer by half.</p>	
*Red indicates an organic option	

Sidedress Fertilizer Amounts and Timing				
Crop	Sidedress Fertilizer			Foliar Fertilizer
	*Required, foliar feeding is not a replacement for sidedressing.			
General Rates:	NKDoo10-0-4 OR Granular 8-1-7 (lbs/100 row ft)	Hi K 4-1-12 OR ForageDoo 3-3-10 (lbs/100 row ft)	Timing	Begin 3 weeks from germination. Apply every 7-14 days *SUPPLEMENT, SIDEDRESS STILL REQUIRED
Home Garden	2	None	3 weeks after germination/transplant	VeggieBlaster **
Market garden	2	None	3 weeks after germination/transplant	VeggieBlaster **
Cole Crops	2	1	3 weeks after germination/transplant	VeggieBlaster **
Flowers	0-2lbs	None	3 weeks after germination/transplant	BloomBlaster **
Fruit Trees (Apples, Pears, Cherries, Peaches, etc)	None	None	Apply "preplant fertilizer" annually in early spring	BloomBlaster before Fruit Set, FruitBlaster after Fruit Set **
Root Vegetables	0.5	1.5	3 weeks after germination/transplant	VeggieBlaster **
Blueberries, Blackberries, Raspberries, Elderberries	None	None	Apply "preplant fertilizer" annually in early spring	BloomBlaster before fruit set, FruitBlaster after fruit set **



# GREENHOUSE & NURSERY

## GROWER CATALOG

### FERTILIZER GUIDE

Crop	Sidedress Fertilizer			Foliar Fertilizer
	*Required, foliar feeding is not a replacement for sidedressing.			Begin 3 weeks from germination. Apply every 7-14 days *SUPPLEMENT, SIDEDRESS STILL REQUIRED
Specific Crop Rates:	NKDoo 10-0-4 OR Granular 8-1-7 (lbs/100 row ft)	Hi K 4-1-12 OR ForageDoo 3-3-10 (lbs/100 row ft)	Timing	
Asparagus	None	None		VeggieBlaster **
Snap Beans	None	None		VeggieBlaster **
Beets, red	None	2.5	3 weeks after germination/transplant	VeggieBlaster **
Broccoli	None	5.5	3 weeks after germination/transplant	VeggieBlaster **
Brussels Sprouts	2.5	None	Split, half at week 4 and half week 8	VeggieBlaster **
Cabbage	2.5	None	3 weeks after germination/transplant	VeggieBlaster **
Carrots	None	2	When tops reach 3 inches	VeggieBlaster **
Cauliflower	2.5	None	3 weeks after germination/transplant	VeggieBlaster **
Celeriac	1.5	2.5	3 weeks after germination/transplant	VeggieBlaster **
Celery	1	7	Split, half at week 4 and half week 8	VeggieBlaster **
Cucumbers	None	1	Bloom	VeggieBlaster **
Dill	None	None		VeggieBlaster **
Eggplant	1.5	0.5	Split, half at week 4 and half week 8	VeggieBlaster **
Endive	0.5	1	3 weeks after germination/transplant	VeggieBlaster **
Escarole	0.5	1	3 weeks after germination/transplant	VeggieBlaster **
Garlic	1.5	0.5	Early spring (planted in fall)	VeggieBlaster **
Ginseng	None	None		VeggieBlaster **
Grapes	None	1	Fall after harvest	BloomBlaster before fruit set, FruitBlaster after fruit set **
Greens, leafy	0.5	0.5	3 weeks after germination/transplant	VeggieBlaster **
Horseradish	None	2	Split, half at week 4 and half week 8	VeggieBlaster **
Kohlrabi	2	0.5	3 weeks after germination/transplant	VeggieBlaster **
Leek	2	1	Split, half at week 4 and half week 8	VeggieBlaster **
Lettuce, Leaf	None	2	3 weeks after germination/transplant	VeggieBlaster **
Lettuce, Head or Romain	1	3	3 weeks after germination/transplant	VeggieBlaster **
Melon	0.5	0.5	3 weeks after germination/transplant	VeggieBlaster **
Onion, Dry Bulb	3	None	Split, half at week 4 and half week 8	VeggieBlaster **
Onion, Green	2	None	Split, half at week 4 and half week 8	VeggieBlaster **
Bok Choi	1.5	None	3 weeks after germination/transplant	VeggieBlaster **
Parsley	None	2.5	3 weeks after germination/transplant	VeggieBlaster **
Parsnip	None	2.5	3 weeks after germination/transplant	VeggieBlaster **
Peas	None	None		VeggieBlaster **
Peppers (Bell, Hot, Banana)	0.5	0.5	Bloom	VeggieBlaster before fruit set FruitBlaster after fruit set **
Potato	2	4	At hilling	VeggieBlaster **
Pumpkin	None	1	Bloom	VeggieBlaster before fruit set FruitBlaster after fruit set **
Radish	None	None		VeggieBlaster **
Rhubarb	None	2	Early spring (apply preplant fertilizer in fall for established rhubarb)	VeggieBlaster **
Rutabaga	None	2.5	3 weeks after germination/transplant	VeggieBlaster **
Spinach	1.5	2.5	3 weeks and 6 weeks	VeggieBlaster **
Squash (Hard, Summer)	None	1	Bloom	VeggieBlaster before fruit set FruitBlaster after fruit set **
Strawberries	1	1.5	Spring (If established, fall apply the preplant fertilizer)	BloomBlaster before fruit set, FruitBlaster after fruit set **
Sweet Corn	1.5	None	6 inches tall	VeggieBlaster **
Sweet Potatos	None	1	3 weeks after germination/transplant	VeggieBlaster **
Swiss Chard	None	3	Split, Half on week 3 and half week 6	VeggieBlaster **
Tomato	1	2	Bloom	VeggieBlaster before fruit set, CalBlaster at bloom, FruitBlaster after fruit set **
Turnip	0.5	0.5	3 weeks after germination/transplant	VeggieBlaster **
Watermelon	1	None	3 weeks after germination/transplant	VeggieBlaster before fruit set FruitBlaster after fruit set **
Zucchini	None	0.5	Bloom	VeggieBlaster before fruit set FruitBlaster after fruit set **
*KelpFul and Molasses are a great addition to any foliar applications to aid in nutrient uptake and mitigate plant stress.				
**For an organic option, you can substitute the following: AgroThrive General Purpose 3-3-2 in place of VeggieBlaster AgroThrive Fruit and Flower 3-3-5 in place of BloomBlaster and FruitBlaster				
If weed pressure is heavy or you see yellowing throughout the year, apply 1-2 additional applications of 1lb/100 row ft of NKDoo 10-0-4.				



# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**

### **What are Your Plants Telling You About Your Soil?**

Your plants are only as healthy as the soil they grow in. Lacking fertility and poor soil health directly results in unhealthy plants and low yields. Soil health should be very important to everyone- from small backyard gardeners to the multi-thousand-acre farmers. To obtain healthy, high yielding plants with the best flavor or highest forage quality, you need to make sure your plants have the fertility and nutrition they require.

#### **Pay Attention to Your Plants**

Plants are directly impacted by the health of your soil, making them good indicators of what is going on beneath the surface. Here are a couple of telltale signs that your soil has an issue you need to deal with.

<b>Pay Attention to Your Plants</b>	
<b>Stunted growth and yellowing leaves</b>	possible nitrogen deficiency
<b>Reddish/ purple on the tips of the leaves that spreads backwards</b>	possible phosphorous deficiency
<b>Tips and edges of leaves turning yellow/ brown, starting at the bottom of the plant and moving upwards</b>	possible potassium deficiency
<b>Blossom End Rot in tomatoes, Bitter Pit in apples, and/or low-quality yields that aren't marketable</b>	possible calcium deficiency
<b>Discolored upper leaves and new growth</b>	possible micronutrient deficiency, such as manganese or zinc
<b>Symptoms of deficiencies when nutrients are known to be present</b>	possible lack of nutrient availability, often resulting from a low-quality biological community in the soil to feed present nutrients to the plants
<b>If you notice any of these issues with your crops it is time to address your soil health!</b>	

#### **Get a Soil Test**

While plants can be a good indicator of fertility and soil health problems, it is best to be proactive and take a soil test before planting. Soil tests can be taken in the spring or fall. These test results will take out all the guess work and help you discern exactly what is missing from your soil. The recommendations will also tell you what is required for the specific plants you are growing. Not only is soil health important, but the optimal conditions for one plant can kill other plants (for example, the optimal pH for alfalfa will kill blueberries). By getting a soil test with plant specific recommendations, you are better able to pick the right product to get your soil health where it needs to be.

When working with a **DAIRY DOO** Custom Compost Blend you can dial in on exactly what your soil needs and compile it into one blend. There are immense benefits to this, including ease of spreading, saved trips across the field, and even distribution of fertility.

#### **Fill in the Missing Pieces – But Only If You Need To**

Once you know what your soil needs, it is time to add it back in. Adding fertilizer without caution can cause a whole host of new problems, including deficiencies of other nutrients, yield reduction, and plant burn from excess nutrients. Putting too much nitrogen, calcium, or phosphorus into your soil can cause other issues like plant burn, high pH which limits the uptake of other nutrients, or even environmental issues like Algae Blooms in surrounding lakes and streams. The best way to be sure you are putting just the right amount on your soil is, again, with a soil test and then building the perfect **DAIRY DOO** Custom Compost Blend.

You can submit your soil test to **Morgan Composting** at any time of the year to get your recommendations for a **DAIRY DOO** blend. Talk to our Soil Health Experts today at 231-734-2451!



**Morgan Composting<sup>INC.</sup>**

# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**



### **Tree & Shrub Program** **Pre-Plant & First Year** **Powered by DAIRY DOO<sup>®</sup>**

**Try these proven systems for healthy trees and shrubs with faster growth!**

**For new trees**, use a Liquid Blend for planting and/or root ball maintenance each spring. *Alleviate stress in your Christmas, fruit, or landscaping trees. With NPK for faster root response and a kick of phosphorus for blooms and fruit, this liquid treatment is a great way to improve the health of your trees or shrubs before they are planted in their final location.*

**Blend 16oz BloomBlaster 4-18-4 and 8oz HumiKelp to one gallon of water**

**To use in planting:**

- Dip the roots in the mixture and then plant

**For root ball maintenance:**

- Use 4oz of the mixture per foot diameter of the root ball in a spray system and spray directly on the root ball
- OR—
- If using an injector system, apply at a rate of 50:1-100:1 or an equivalent of 1-2oz per gallon of water

**For establishing trees**, use a granular application in the spring and fall.

*Morgan's Tree Blend 8-1-7 is a slow-release product that helps any kind of tree within 10 years of planting. It improves the tree health by improving the soil health - making a friendlier environment that your trees can thrive in.*

**Use the granular MCI Tree Blend 8-1-7**

**Application:**

- Apply the MCI Tree Blend 8-1-7 between April 30-May 31 and again between August 15-September 15
- Use 1oz of MCI Tree Blend 8-1-7 per foot of tree height and apply with a spreader

**FARM FOR YOUR FUTURE GENERATIONS AND POWER YOUR SOIL WITH DAIRY DOO<sup>®</sup>**



# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**



### **Fruit Orchard Program**

**Powered by DAIRY DOO®**

#### **Pome Fruit and Stone Fruit Nutrient Requirements**

Nitrogen: 40 - 60 #/acre (0.22 - 0.27 #/tree)

Phosphate: 30-70 #/acre (0.15 - 0.32 #/tree)

Potash: 80-120 #/acre (0.4 - 0.5 #/tree)

#### **Prior to Planting:**

The best time to fix soils and make major adjustments to the fertility is before planting while the field is still bare. Compost, or even raw manure, can be applied at heavy amounts at this time, and worked into the top 5 - 6 inches. Be aware of phosphorus loads already present.

#### **Late Fall or Early Spring:**

- A) Applying compost in the late fall or early spring to established orchards is often the easiest time because it shouldn't conflict with other field chores.
- B) Apply according to the phosphorus needs for the year and meet the difference in potash and nitrogen needs with other products.
- C) Apply 2 - 5 yards of **DAIRY DOO®** or **PoultryDOO** in row under the canopy.
  - i. If applied before transplanting, shallow till into the top 4 inches of soil.
  - ii. If applying to mature trees, spread on the surface prior to mulch.
- D) If your equipment doesn't allow for the spreading of compost, use **All Purpose 8-4-4** or organic **Healthy Garden 7-6-5** as a granular fertilizer at a rate of 800 lbs. per acre or 2 - 10 lbs per tree, depending on planting density.
  - i. If your phosphorus levels are already too high, then use a zero-phosphorus fertilizer like **Organic NKDoo 10-0-4**.
- DI) You will likely need additional potash. If using muriate of potash (KCl), limit to 100 lbs./acre to prevent chloride toxicity. If using sulfate of potash or wood ashes, this doesn't need to be a concern. Consider a custom blend to address specific nutrient needs based on the soil test. This is an excellent time to combine application with lime or gypsum. Use lime to raise soil pH and use gypsum for soils that need extra calcium without making pH adjustments.

#### **Liquid Program: Foliar**

- A) The first application of foliar nutrient should start just prior to bloom and continue for at least two months through bloom and early fruit development.
  - i. Spray 2 gallons per acre of **FruitBlaster 1-5-13** every five days during bloom, and every ten days after that. If organic, use **AgroThrive Organic Liquid Fish 3-3-2** at 4 gallons per acre instead.



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### **Liquid Program: Fertigation**

A) If you have an irrigation system that can dose fertilizer at the same rates of 2 – 4 gallons per acre per week, Morgan's **ResidueBlaster 5-0-2 2S** is an excellent choice for both supplying nutrients and feeding the soil biology.

- i. Apply fertilizer in the last 30 to 60 minutes of your irrigation run, leaving enough time to flush any residues from lines before shutting off the pump.
- ii. Whenever possible, try to fertilize a day or two after a rain or normal irrigation while the soil is still moist to get the best chance of soil adsorption.

### **Micronutrients:**

A liquid application of secondary nutrients (like calcium and magnesium), and trace elements (such as boron, copper, and zinc) are often the best way of knowing that you are getting an adequate amount of these nutrients into the plant. Even if there isn't a deficiency showing in the soil, some of these elements have a difficult time getting to the upper crown of the tree.

A) Morgan's **MicroBlaster 0-0-1** contains all the essential micronutrients. Calcium is an important nutrient for high quality fruit.

B) Honeycrisp Apples and Sweet Cherries use an especially high amount of calcium, so use a calcium product to ensure high quality.

### **Post-Harvest:**

Immediately after harvest is usually the best time for taking soil tests because there are fewer labor demands on the farm, and, typically, a lower workload at the lab; making sample turn-around much more timely, giving you time to design next year's fertility plan.



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# **Morgan Composting<sup>inc.</sup>**

# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**



## **Christmas Tree Farms & Choose'N Cut**

### **Powered by DAIRY DOO®**

**(This is a simple outline and we understand there are no cookie-cutter farms, please let us help you develop a plan for your farm.)**

#### **Prior to Planting:**

- Late summer/fall prior to:
  - Take soil sample, review results, and formulate an amendment plan
  - Determine what varieties of conifer you want to plant and review their specific nutrient needs
  - Apply **DAIRY DOO** Custom Compost Blend with NPK to carry the trees for the next 2-3 years
  - Complete weed control
  - Plant cover crop

#### **Spring Planting:**

- Lay out your planting grid (5ft x 5ft or 8ft x 8ft, ect.)
- Or determine the quantity of seedlings needed to fill the harvested gaps.
- Pick up seedlings and plant trees

#### **Growing Year 1 & 2 - (May 15 through Oct 15)**

- Weed control, whether chemical, mechanical or physical, must be done to eliminate nutrient and water competition. It also eliminates a micro environment for insects and diseases.
- Monitor for insects and disease. Take advantage of MSU's Enviroweather website to monitor for weather-based pests. If needed, consider an organic insecticide like TerraNeem EC.
- Replace seedlings that have died.
- By year 3, we want to have a well established field.

#### **Growing Year 3 through Harvest**

Conifers have 2 primary nutrient uptake cycles that have a direct effect on development and growth. This first uptake cycle is roughly from May 15th to June 15th and directly affects new bud growth. The second uptake cycle ranges from Sep 15th to Oct 15th. This cycle increases the root stores for successful over-wintering and can also help give the needles a deep green color, for trees that are ready to be harvested.

- Spring applied fertilizer, MCI Tree Blend 8-1-7, or a well balanced granular blend of NPK and sulfur, and micros, should be broadcast by May 15th to get rained into the soil profile and into the root zone.
- Enviroweather should be your friend by now. Monitor the growing degree units for your area and scout for insects and disease patterns.
- Early weed control should be completed as the buds swell and the caps are pushed off.



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## **GROWER CATALOG**



- The new growth needs to be protected from both insect and disease...get an insecticide and fungicide plan ready to implement.
- During the summer months, keep weeds knocked down from under the tree out to the drip line, at a minimum.
- Fall fertilizing, MCI Tree Blend 8-1-7, or other custom granular fertilizer blend, should be done in early September.

#### **Post Harvest:**

- For Choose-n-Cut farms: clean up debris left from harvest, grind stumps and get open gaps ready for spring planting.
- For plantations: begin field clean up, stump grinding, etc. so the field is ready for a cover crop (fall or spring planted). In some cases, applying manure and planted to corn a couple years before returning to trees is advised.



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**DAIRY DOO** products work at Coveyou Scenic Farm



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### **Custom Blends from DAIRY DOO**

We enjoy creating custom blends that fit **YOUR** needs. Have a dream potting soil you want created? Have ideas for the ideal soil amendment? We can make it.

#### **For custom potting soils**

*A 40 yard minimum order is required for all custom potting soils.*

- Let us know what you are planning to grow and the type of results you are looking for.
- Choose from organic or conventional ingredients with guidance from our Soil Scientist.
- Place your order and let us mix it up for you!

#### **For custom soil amendments**

*A 1 ton minimum order is required for all custom soil amendment blends.*

- Send us your soil sample or test results for a full diagnosis of the issues.
- Review a plan with our Soil Scientist, picking ingredients that fulfill your certification needs and hit the price mark you are looking for.
- Let us know when you want your amendment delivered and we will complete the recipe you've created!



**Our super sacks come in 1, 1.5, and 2 yard sizes. They come on a standard pallet and also include loops for easier offloading.**

#### **For custom liquids**

- Interested in some sort of custom foliar or liquid soil amendment? Let's talk about what you are looking for. Our Liquid Barn is ready to churn up a liquid that meets your specifications!



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**GROWER CATALOG**

**We *DOO* Happy Customers ...**



*"I am a volunteer with Grand Traverse Regional Land Conservancy. This past spring we used your product on our volunteer garden at the Maple Bay farm near Elk Rapids. As you can see, we had a successful summer growing our vegetables, especially our rutabaga! We donate a large portion of our produce to local food pantries so these should go a long way in feeding a needy family! Thanks again for a great product!"*

*- Gary S.*



Alfalfa Treated with **DAIRY DOO**  
Liquids vs. No Treatment



Popular National Brand vs Seed Starter 101



# **GREENHOUSE & NURSERY**

## **GROWER CATALOG**

### **Knowing Your Soil Starts With a Soil Test**

If you are serious about your soil health, get started with a soil test. We can help! Send your soil sample to us and we will complete the testing. After testing, we will review the results with you and help you make a plan to **work with the soil you have to get the results you want.**

#### **Standard Soil Test – \$35**

Get a basic overview of the nutrients in your soil.

#### **Advanced Soil/Media Test – \$75**

Includes standard test, plus water soluble nutrient test.

#### **Haney Test – \$75**

Includes a basic nutrient test (ammonium acetate/DTPA), H3A extraction, and CO2 respiration test. Uses chemical and biological soil test data to mimic and estimate the soil biology's effects on nutrient availability.

#### **How to Gather Your Soil Sample**

##### **Sampling Instructions:**

1. Begin with a clean plastic pail and either a soil probe, spade, or trowel.

a) If using a probe, push it down to the recommended depth and empty the core into the pail.

b) If using a shovel, dig a hole to the recommended depth. From that hole, take a slice off the side of the hole to ensure you get an even amount of soil from the surface down to the recommended depth. Add the slice to the clean plastic pail.

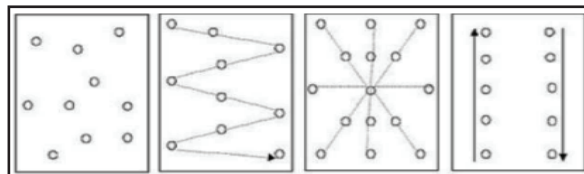
##### **Recommended Depths:**

Default: 6 inches      Row Crops: 8 inches      Mixed Vegetables: 6 inches      No-Till/Pasture: 4 inches      Vineyards/Orchards: 8-10 inches

2. Using the method described above, take 15-20 subsamples throughout the sampling area using one of the patterns shown in the figure at right. Combine the 15-20 subsamples into the single clean plastic pail and mix thoroughly.

3. From the well-mixed pail of subsamples, take between a pint and a quart of soil and fill the sample bag.

4. Complete the submission form at [dairydoo.com/soil-testing-services](http://dairydoo.com/soil-testing-services) and then send your sample(s) along with the form and a check payable to **Morgan Composting**. Soil testing results are available in 7-14 days, depending on the time of year.



**HEALTHY PLANTS COME FROM HEALTHY SOIL, HEALTHY SOIL COMES FROM DAIRY DOO<sup>INC.</sup>**

Take advantage of our expertise in soil health and call us today. The **DOO Crew** is ready to help you grow!

**231-734-2451 • [dairydoo.com](http://dairydoo.com) • 4353 US 10, Sears, MI 49679**



# **Morgan Composting<sup>inc.</sup>**

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### **POWERED BY DAIRY DOO**

Morgan's products are compost based with a focus on safe and organic options. These products provide ample amounts of nutrient, organic matter, carbon, and diverse biology to help your soils restore and reserve nutrients that are natural and essential to plant growth.

### **How We Began**

Morgan Composting is a family business that was started in 1996, by Brad Morgan and his father Dale. The Morgan's began composting as a solution to a manure management problem on their 200 head dairy operation. Now, the cows have been sold and just a composting operation remains.

### **Our Philosophy**

We believe that there is no silver bullet, but if we can build layers of good practices, we can achieve healthy soils and healthy plants. This equals a healthy YOU! Our goal is your goal, so when a grower asks us "how do I get there?" We start at the beginning and ask where you're starting from. With a well trained staff, along with an agronomist, to help recommend and implement a good, efficient plant specific program, we'll get you THERE.

### **Our Mission**

Morgan Composting strives to be a driving force in Agribusiness that promotes sustainable practices, and to be an innovated provider of economical & healthy soil products. Our mission, what MCI is about ... is to strive for excellence in our service to customers, our community, and the environment.

- Morality, ethics, and goodwill
- Organic integrity and promotion
- Respect, reliability, and recognition
- Growing, growing, and growing!
- Ability to be diverse in all growing sectors
- New opportunities are constantly sought out
- Sustainable and sound economical products

***Family Owned and Operated ~ Established 1996***

**www.DAIRYDOO.com MorganComposting<sup>inc.</sup> 4353 US 10 Sears, MI 49679**