



Est. 2006

ARTFULLY CRAFTED
REGENERATIVE
ORGANIC
LIVING SOILS

2025
CATALOG





Regenerative Gardening

Where We Began

Do you remember the first time you saw a majestic sunflower in bloom? The first time you grew a tomato from seed and nurtured it to harvest? The first time you dug your hands into the rich, earthy soil? We have all felt that illuminating moment when we truly began our love of gardening. It's these collective experiences that bring us together as a community and inform our shared gratitude for our precious ecosystem.

The Next Generation

As we pass along our knowledge, passion, tools, determination and skills to the next generation, we know that we are not leaving them with the same world we began with. To ensure that we are not only preserving, but REGENERATING our soils, our gardens, and our world, we look to Regenerative Gardening practices that will help leave our planet in a better place for future generations.

What is Regenerative Gardening?

For us, Regenerative Gardening means gardening in a holistic way that regenerates the soil, our local ecosystem, and our planet. We encourage practices like composting garden debris and food waste, cover cropping, and no-till to keep the carbon in the ground—reducing our collective carbon footprint. Gardening that builds biodiversity in soils and plant life, eliminates the use of chemical fertilizers, and leaves the soil in a better place than it was found, is truly regenerative.

Ways We Support Regenerative Gardening

At Organic Mechanics Soil, we craft potting soils and soil amendments to revitalize our garden spaces. With repurposed ingredients like compost, organic nutrients, and carbon-negative biochar, we return these elements to the soil. The result is healthier soils, more resilient plants, better harvests, and more nutrient-dense foods for us to enjoy. As we grow, we will continue to innovate ways to reduce our environmental impact and partner with mission-aligned organizations, such as Rodale Institute. We hope you'll join us!

Proud Supporter of Rodale Institute

We're honored to be part of the "Proud Supporter of Rodale Institute" program! Rodale Institute, the nation's oldest, most trusted organization devoted to organic research and education, is partnering with select brands to create products that support regenerative organic agriculture.

This program recognizes farms and producers who go above and beyond in their material sourcing and farming practices. When you see the Rodale Institute logo, you know that the product was grown and produced in a way that supports healthy soil, healthy people, and a healthy planet.

"The Rodale symbol represents a partnership between a brand that values regenerative organic practices and Rodale Institute," says Jeff Tkach, Chief Growth Officer for Rodale Institute. "These partnerships allow us to be directly in a consumer's kitchen or garden, educating them about important farming practices that affect their everyday lives."



"We are excited for this opportunity to collaborate with Rodale Institute, as we share Rodale's passion for regenerative organic agriculture. Rodale Institute has been a pioneer in researching best practices in organic agriculture for almost a century, and we are proud to have Organic Mechanics products be selected."

– Mark Highland,
"The Organic Mechanic"



Who We Are

Founded in 2006, the Organic Mechanics Soil Company, LLC is a manufacturer and distributor of premier organic potting soils, soil amendments, and fertilizers for the professional and consumer gardening communities. Our retail products can be found in independent garden centers, houseplant shops, natural food stores, and indoor gardening stores. Our wholesale products ship to farms, growers, and landscape companies. We are proud to serve most of the continental United States.

At the heart of all we do, we share a philosophy that embraces environmental sustainability and regenerative gardening practices. We are actively pursuing the dream of producing the highest quality, most earth-friendly organic potting soils, soil amendments, and fertilizers available.

This is why we consciously use biochar, compost, and coconut coir instead of peat, and use rice hulls instead of perlite in most of our blends. We focus on recycled materials and local ingredients whenever available, and our biochar, compost, and pine bark are all sourced within 100 miles from where we produce. We are committed to operating our business responsibly and sustainably.

Factor in knowledgeable, personal service, the superior performance results you'll enjoy in your garden, and the ability to re-use our soil products a second growing season, and we hope you'll agree that Organic Mechanics is indeed the best potting soil you'll ever buy. Dig your hands into a bag of Organic Mechanics and start gardening... your plants will love you for it!

Mark Highland, "The Organic Mechanic"



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Our Commitment to Sustainable Practices

We're Organic! We are committed to providing sustainably-sourced, organic ingredients for our products. Most of our products are OMRI Listed, independently verified as 100% Organic by OMRI (Organic Materials Review Institute). All of our products are NOP compliant (National Organic Program), so you can safely use them in organic gardening.



We're Peat-Free Peat, which consists primarily of decomposed plants, is a common ingredient in most potting soils. Peat is harvested from Peat Bogs, primarily located in Canada, which are some of the world's best carbon sequesters. Instead of taking that rich carbon from the ground, we choose to use ingredients that are byproducts of other processes, like biochar, coconut coir, and aged pine bark. With these materials, you're gardening with a much more sustainable product.

Water Less Many of our soil blends hold moisture longer than other brands, without adding chemicals, so you'll water less often. Ingredients like biochar, earthworm castings, and compost are a key part.

Reduce, Reuse, and Recycle It's not just the soil! We are consistently improving all parts of our business to be more sustainable and lower our carbon footprint. In fact, our new bags are now printed with post-consumer recycled plastic. For logistics, our primary trucking carrier was chosen partly because of their commitment to going green—they have solar arrays planned for each of their warehouses, and they source biodiesel for their truck fleet. Every bit helps!

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Our Incredible Ingredients

- **Biochar** This carbon-negative ingredient is made from sustainably-harvested wood fiber. Biochar provides a home for biology and holds nutrients and minerals in the soil profile. It's a super yield booster for your plants that gives back year after year!



- **Compost** Our organic compost is locally-sourced and is made from plant materials (leaves, branches, cut-back perennials, etc.). The organic matter in compost encourages beneficial micro and macroorganisms in the soil food web, helping plants grow up strong. Compost helps retain moisture in our soils, too!



- **Aged Forest Products** Our locally-sourced, well-aged pine bark provides beneficial biology, chunkiness, and porosity to our soil blends. It also helps to provide drainage quality.



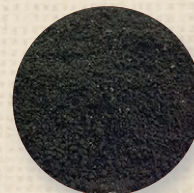
- **Coconut Coir** Coir is a superior medium for plant growth! It holds moisture longer than peat and doesn't break down as fast. Our coir is the material left at the end of sustainable coconut harvesting.



- **Rice Hulls** Super sustainable rice hulls are an ingredient that provides drainage like perlite. They contain phosphorous and a significant amount of silica. As the hulls break down, they create permanent pore space in your soil, which is great for root health!



- **Worm Castings** Our premium earthworm castings encourage beneficial biology and help by encouraging moisture retention. You'll find this incredible ingredient in many of our soils!



It's Alive!!! Living Soils bring life to your garden, enriching the soil's ecosystem by encouraging beneficial bacteria and fungi. The results: healthier plants, tastier harvests, and better for the earth!

OrganicMechanicSoil.com



For more info on Biochar,
turn to page 26!

Biochar Blend



- Lifetime Soil Enhancement that Grows Big Plants and Increases Yields!
- Fully charged and ready to use on all types of plants.
- Compost and earthworm castings encourage beneficial biology.
- Alfalfa Meal and Kelp Meal add valuable nutrients.
- Bone Char adds necessary phosphorous and calcium.
- Zeolite and Azomite are minerals that nourish microbes and plant roots.
- For Containers, mix in at a 10% rate with your preferred growing media, such as our Container Blend Potting Soil or Cocodelphia.
- For Garden Beds, a 1 cu. ft. bag will amend 24 square feet (10% rate).
- Natural and Organic!
- Recommended for Cannabis sp.!
- Contains: Biochar, compost, earthworm castings, bone char, azomite, zeolite, alfalfa meal, and kelp meal.
- Available in 8 qt. (6 per case), 1 cu. ft., and 60 cu. ft. (Wholesale) bags.



[OrganicMechanicSoil.com](https://www.OrganicMechanicSoil.com)



Insect Frass Fertilizer (3-2-2)

- 3-2-2 organic, vegan fertilizer for amending soils and nourishing plants.
- Use in soil and potting soil, or as a liquid foliar spray, or additive into a compost tea / hydroponic program.
- Living Soils love Insect Frass!
- For Containers, mix 1 cup per 1 cu. ft. of soil. Mix 0.25 cups with 1 cu. ft. of soil for young plants, and up to 1 cup for established plants.
- For all stages of plant growth.
- Perfect for all plant types: Houseplants, Edibles, Flowers, Native Plants, Tropicals, Trees, Bonsai, Cacti & Succulents, and Bulbs.
- All Natural, made with Organic Ingredients.
- Recommended for Cannabis sp.!
- Contains: Insect frass.
- Available in 2 lb. bags (6 per case).



Use this natural and organic fertilizer in soil or potting soil. Makes a great liquid foliar spray or addition to compost teas.



A Level Up on the classic 70:30 Blend, plus all the ingredients in our incredible Biochar Blend!

110 Blend



- Well-drained soil providing peak aeration, it's ready to plant straight outta the bag!
- Fully Charged and ready to use on all types of plants.
- Grow like a Cup Winner! 110 Blend is the potting soil of choice for many Cannabis Cup winners.
- Ideal for large architectural planters and indoor commercial gardens.
- Boosts your Yields and Terpene content!
- Ingredients encourage beneficial biology, add valuable nutrients including phosphorous and calcium, and add minerals that nourish microbes and plant roots.
- Natural & Organic!
- Recommended for Cannabis sp.!
- Contains: Coir, perlite, biochar, compost, earthworm castings, bone char, azomite, zeolite, alfalfa meal, and kelp meal.
- Available in 1.76 cu. ft. (50 Liter) and 60 cu. ft. (Wholesale) bags.



[OrganicMechanicSoil.com](https://www.OrganicMechanicSoil.com)



Cocodelphia – 100% Premium Coconut Coir

- Ready to Use – This growing medium is good to go!
- If desired, mix in beneficial ingredients, such as Biochar Blend, Insect Frass, or Worm Castings, to make your own super soil.
- Triple-Washed for Low Salt Levels! EC less than 0.7.
- Tests clean for low heavy metals.
- pH neutral to slightly acidic.
- 100% Organic – Can be reused!
- Recommended for Cannabis sp.!
- Contains excellent Cation Exchange Capacity (CEC) for improved fertilizer uptake.
- Available in 1.76 cu. ft. (50 Liter) bags.



For use as a grow media in hydroponic grow systems, container plantings, and in garden beds!





Ideal potting soil for growing food in containers, annuals, tropical plants, and houseplants.

Premium Blend Potting Soil

- Our original Houseplant blend, perfect for small containers, window boxes, or any plant that needs exceptional moisture retention!
- Cut your watering time in half! Our compost-based mix retains moisture much better than traditional peat-based mixes, so you'll water less often.
- Harvest twice as much! Research trials show tomatoes grew twice as large, with twice as many fruits when grown in Premium Blend, compared to our competition.
- For optimal plant growth, pair with a complete, balanced fertilizer at planting time.
- Contains: Compost, aged forest products, coir, earthworm castings, and perlite.
- Available in 8 qt., 16 qt., and 1 cu. ft. bags.



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Container Blend Potting Soil

- Excellent drainage properties, yet holds moisture well over time.
- Use for large containers (up to 250 gallons) or any plant that needs well-drained soil.
- Perennials and heavily flowering plants love it!
- Save money and reuse it! Our compost-based soils do not break down as quickly as peat-based mixes. Simply fluff the mix back up, remove any large root balls, and then replant.
- For optimal plant growth, pair with a complete, balanced fertilizer at planting time.
- Recommended for Cannabis sp.!
- Contains: Compost, aged forest products, coir, earthworm castings, and rice hulls.
- Available in 16 qt., 1 cu. ft., 2 cu. ft., and 60 cu. ft. (Wholesale) bags.



Our all-purpose, 100% organic potting soil, perfect for repotting plants, indoor gardening, and more!





Perfect for any type of
Cactus or Succulent!



Cactus & Succulent Blend

- Our unique blend is scientifically designed for amazing drainage, yet holds enough moisture to keep your cacti and succulents happy.
- Also works for bonsai trees, jade plants, or any plant that needs exceptional drainage.
- Biochar helps to retain biology in the root zone.
- We recommend using terracotta (clay) or fiber containers for best results.
- All Natural, made with Organic & Mineral Ingredients.
- Contains: Biochar, expanded shale, rice hulls, compost, earthworm castings, sand, and coir.
- Available in 2 quart (resealable - 16 per case), 8 quart, and 1 cu. ft. (Wholesale) bags.



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Seed Starting Blend

- Use for vegetables, herbs, annuals, and perennials.
- Formulated for optimal seed germination, providing 2-3 weeks of fertilization power.
- Holds moisture, yet drains well for healthy root growth.
- Use in seedling flats, small fiber pots, or any container for planting seed.
- Contains: Coir, aged forest products, rice hulls, earthworm castings, and an OMRI Listed organic fertilizer.
- Available in 8 qt. and 16 qt. bags.



The perfect 100% organic potting soil for starting all types of seeds. Sow your seeds and grow your own food this season!





A 4-2-2 fertilizer with Mycorrhizae and highly beneficial additives. Grow BIG plants and INCREASE your yields!



Fuhgeddaboutit! Root Zone Feeder Packs (4-2-2)

- No mixing and measuring, just add at planting time, right beside or just underneath the plant's root ball. Nothing could be easier. Fuhgeddaboutit!
- Use 1 per plant. If planting in larger than a 5 gallon container, use 1 pack for every 5 gallon size.
- For all types of plants, from annuals to perennials to woody plants.
- Enhances your existing fertilizer program. Contains a 4-2-2 fertilizer, 5% Calcium and 1% Sulphur.
- All Natural, made with Organic & Mineral Ingredients.
- Recommended for Cannabis sp.!
- Standard Size contains 12 50-gram packs in a resealable bag.
- Contains a measured dose of fertilizer, mycorrhizae, biochar, azomite, and micronized oyster shell.
- Available for bulk purchases by the 100.

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Pure Rice Hulls

- Perlite Substitute: Mix into your soil to increase drainage and porosity. Use 10% less Rice Hulls than you would with perlite!
- Fungus Gnat Deterrent: Make your plants a place they don't want to go! Add 0.5"-0.75" to the top of your soil as a mulch.
- Weed Control: Stop weeds from growing and wasting your time weeding! Add 1.5"-2.0" to the top of your soil as a mulch.
- Home Brew Helper: Works to ensure full flavor release for your beer.
- Grown, Harvested, and Packaged in the USA!
- Recommended for Cannabis sp.!
- Contains: 100% Pure Rice Hulls.
- Available in 8 qt. and 2 cu. ft. bags.



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8 qt.
Bag



2 cu.
ft.

Use as a perlite substitute,
fungus gnat deterrent, and
weed control!





For vegetable gardens, trees, shrubbery, fruits and flowers. Revitalize your soil this growing season!

Planting Mix Compost Blend

- Incredible soil amendment that revitalizes your garden soil.
- Works great in raised bed gardens (Mix 3 parts Planting Mix Compost Blend to 1 part topsoil).
- Adds vital organic matter to enhance the root zone.
- Helps retain moisture around plant roots.
- Give your new plants a healthy advantage with this superior quality organic planting mix!
- For optimal plant growth, pair with a complete, balanced fertilizer at planting time.
- Contains: Compost, aged forest products, coir, and earthworm castings.
- Available in 1 cu. ft. and 2 cu. ft. bags.



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Worm Castings Soil Amendment

- Use as a soil amendment for vegetables, herbs, annuals, perennials, or houseplants.
- Water less! Worm Castings help hold moisture in the root zone.
- Rejuvenate houseplants! Add 1/4 cup of Worm Castings per gallon pot to soil surface.
- Give new plants a head start! Mix 1/4 cup of Worm Castings into soil planting hole for each vegetable in garden beds.
- Recommended for Cannabis sp.!
- Contains: 100% Pure Earthworm Castings.
- Available in 1 lb. (40 per case) and 5 lb. (8 per case) resealable bags.



For Organic Use - OMRI.org

OrganicMechanicSoil.com



Nature's organic fertilizer!
These 100% organic earthworm castings replenish your soil and encourage beneficial biology.





Terrariums - Crafts - Decoration

2nd Sand



2nd Life. 2nd Chance. 2nd SAND.

- 2nd Sand is made from recycled glass bottles that are crushed down to small pieces resembling the shape and size of sand. By creating with 2nd Sand, you're giving this glass a second life.
- 2nd Sand is available in a range of colors, naturally produced from crushing different colored glass bottles.
- Use 2nd Sand in terrarium creations, to design unique works of art, or top a potted plant to make it sparkle. The possibilities are endless!
- To create 2nd Sand, we partner with a workforce development program that utilizes fair hiring practices, creating sustainable job opportunities for those that deserve a second chance.

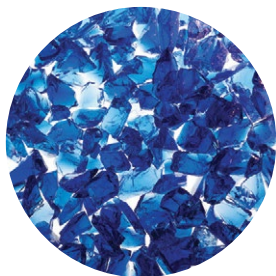


2nd Sand



2nd Life. 2nd Chance. 2nd SAND.

- Bag Size: 1 lb. bags (6 per case).
- Three Colors available:



Cobalt Blue



Emerald Green



Clear White



Wholesale-Specific Blends

Need soil for your greenhouse, interiorscape or landscape design firm? We got you! In addition to our retail line, we have soil blends that are perfect for nursery production, commercial plantings, and infrastructure projects. **Typical sizes are 2 cu. ft. bags and 60 cu. ft. super sacks.**

Looking for Pure Biochar or our 110 Blend in Bulk? **Bulk Orders are available, too!** Contact us to find the right soil for your growing needs!



Professional Grower's Blend

- Well-drained blend great for annuals, vegetables, perennials, and tropicals.
- Built for greenhouse use or for large architectural planters.
- Fertilize as needed for best results.
- **Also available with our Biochar Blend mixed in! (PRO-BIO).**
- Contains: coconut coir, aged forest products, rice hulls, earthworm castings, compost, and an OMRI listed organic fertilizer, providing 2-3 weeks of starter charge.
- Available in 2 cu. ft. bags.



Plants grow in Professional Grower's Blend at the Phipps Conservatory.



PRO-BIO Potting Soil

- Well-drained soil, fully charged and ready to use for all types of plants.
- Ideal for greenhouse use and for large architectural planters.
- A level up on our Professional Grower's Blend, we added the ingredients from our Biochar Blend to take your plants to new heights!
- Ingredients encourage beneficial biology, add valuable nutrients including phosphorus and calcium, and add minerals that nourish microbes and plant roots.
- Fertilize as needed for best results.
- Contains: coconut coir, aged forest products, rice hulls, earthworm castings, biochar, compost, bone char, azomite, zeolite, alfalfa meal, kelp meal, and an OMRI listed organic fertilizer, providing 2-3 weeks of starter charge.
- Available in 2 cu. ft. bags and 60 cu. ft. super sacks.

Plants grow in PRO-BIO!



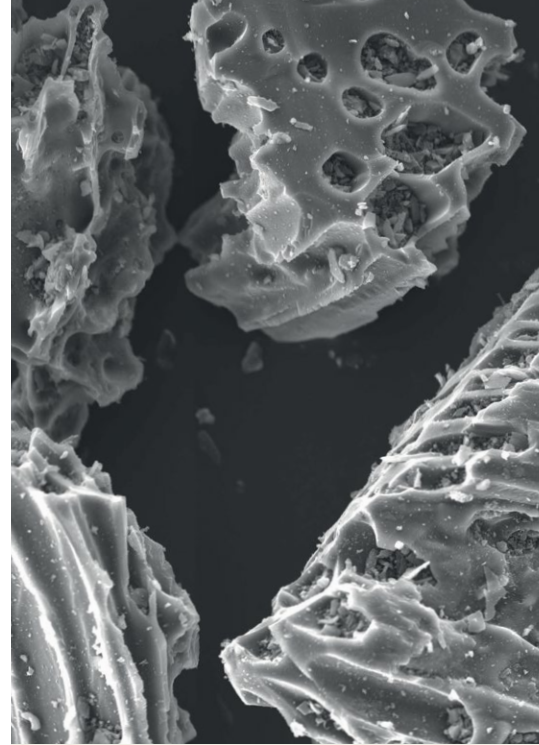
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Pure Biochar

- We recommend mixing your desired nutrients, biology, and minerals with Biochar for a minimum of four weeks before using it. This allows time for the Biochar to become inoculated.*
 - Biochar improves soil quality for a lifetime, so soil performance gets better year after year!
 - For Containers, mix in at a 5% rate with your preferred growing medium, such as Container Blend or Cocodelphia.
 - For Garden Beds, 1 cu. ft. will cover 48 sq. ft. at a 5" depth (5% rate).
 - Natural and Organic! Recommended for Cannabis sp.!
 - Available in 1 cu. ft. bags and 60 cu. ft. super sacks, and bulk!
- Reach out to us directly for bulk pricing.**
- Farms: Call us to discuss the USDA NRCS 336 program that provides a financial incentive to farms to apply bulk biochar to your land.

*Skipping the inoculation step reduces effectiveness the first year, as Biochar will adsorb nutrients and minerals from the surrounding soil, reducing plant-available nutrients in the soil solution. Work with a pre-inoculated Biochar Blend for best results. However, in some landscape situations, blending pure Biochar into soil has advantages that outweigh this limitation.



Pure Biochar 500x magnification.
Photo: Steven Carl Peterson

We ♥ Biochar!

We're a Biochar OG: Since 2009, we knew the awesome potential biochar had for plant growth and soil structure. We're proud to have been one of the first companies to package a retail-ready biochar product in the US. So what is Biochar?

Biochar: *Bi-o-char* is highly porous carbon that improves nutrient absorption and provides a practically permanent home for beneficial soil biology. Proper use will boost yields and increase the effectiveness of your grow!

Why Biochar? Biochar is a carbon negative material that can help reduce our carbon footprint by sequestering carbon in the ground for up to thousands of years. Made from an ancient technology with its roots in the Amazon over 2,000 years ago, Biochar is created through a process called pyrolysis. When properly used, Biochar will help to boost yields and increase the effectiveness of your grow! Biochar is an incredible garden tool that makes soil more fertile by increasing nutrient holding capacity. Biochar also helps with moisture retention and has been used for soil contaminant remediation.

Simply put, you're going to have a healthier and more vibrant garden when properly using Biochar. **You'll get year-after-year benefits from this lifetime soil amendment.**

You can find biochar in all of these products: Pure Biochar, Biochar Blend Soil Amendment, 110 Blend Potting Soil, PRO-BIO Potting Soil, Cactus & Succulent Blend, Stormwater Blend, and Fuhgeddaboutit! Root Zone Feeder Packs.



[OrganicMechanicSoil.com](https://www.OrganicMechanicSoil.com)

Stormwater Blend

- For Green Stormwater Infrastructure (GSI) projects that require an engineered soil with specific drainage properties.
- Drains well, excellent infiltration rate yet holds moisture to support plant growth.
- Used exclusively as part of the Rain Check Program from the Philadelphia Water Department, installed by the Pennsylvania Horticultural Society.
- All Natural, made with Organic & Mineral Ingredients.
- Contains sand, topsoil, compost, biochar.
- Available in 1 cu. ft. bags.



OrganicMechanicSoil.com

Growing Cannabis Sp.

From Multi-State Operators to backyard hobbyists, experienced growers across the nation trust Organic Mechanics for their Cannabis Sp. production. We are proud to have Cup Award Winners use our products for their amazing grows. For best results, look for our products listed as "Recommended for Cannabis sp.!" on their product page.

Please note that Organic Mechanics is not responsible for the use of our products in states where growing and using cannabis is prohibited. Requesting information, or purchasing any of our products, implies that you intend to use it in a lawful manner. Organic Mechanics disclaims all liabilities.



Organic Mechanics crafted a custom blend for Split-Rocker, a Jeff Koons-designed living sculpture, at the Glenstone Museum in Potomac, MD. This is the longest an engineered soil has been thriving in a living sculpture—over 11 years now!

Photo: Glenstone Museum




Organic
MECHANICS[®]


We work on your soil![®]


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