

2024

Hartsville, OH | Hillsboro, WI  
330-877-9356 | 608-489-3600

OHIO EARTH FOOD

ORGANIC

GROWING  
SUPPLIES



A LIFE OF  
LEARNING

“Never consider yourself an expert and close yourself off to learning more. Always continue evolving and questioning how and why we do what we do!”

OLDEN ORGANICS

Richard and Tracy Vinz  
Ripon, WI



feed your soil, enrich your world™



We believe in a healthy planet and nutritious food from local **FAMILY FARMS.**

Everything we do is to support the **SUCCESS** of these things.



Ohio Earth Food Micro Farm Project Incubator for Beginning Farmers



When you love what you're doing, **IT SHOWS.**



Ohio Earth Food and MycoApply provide matching funds for the USDA grant that has brought Fairshare CSA Coalition to Ohio!

The goals and benefits of becoming a Fairshare endorsed farm are:

- A support network of professional vegetable growers
  - Gain CSA members through private and public fairshare marketing programs
  - Technical training with the Midwest's premier CSA farms
- Contact Beth Knorr – Beth@CSACoalition.org



Roots, Fruits and Shoots farm and CSA, Licking Co. Ohio



**RE-VITA HIGH N (8-3-3)**

A high-Nitrogen organic granular fertilizer excellent for turf, pre-plant and side dressing of high nitrogen feeding crops. Made with our 7-week composted layer manure, kelp, humate, feathermeal, bloodmeal and sulfate of potash in an easy to spread granular. Provides essential and micro nutrients in a slow release form to feed slowly over the season. Naturally occurring microorganisms aid in decomposition of grass clippings and help prevent residue build up as well as many turf diseases. Trace elements stimulate root growth, enhance resistance to stress such as drought. For lawn and golf course use apply 10 lbs. per 1000 sq. ft. at planting and two times per year. For sweet corn or produce apply 400 to 800 lbs. per acre in the row or under plastic mulch. Can then be used to side dress when corn is 8-10" high, 400 lbs. per acre then cultivate in if possible. Do not let fertilizer build up around stem of plant. Bulk density 41 lbs/cu ft. Roughly 300 SGN (2-4mm) granules.

50 lb. Bag (#53)	\$37.99
20+ 50 lb. Bags	\$31.00
40+ 50 lb. Bags	\$29.00
2000# Tote	\$1,150.00

**RE-VITA HI-K (2-3-16)**

Composted layer manure, kelp, humate and sulphate of potash for a homogeneous granular fertilizer. Improves soil low in sulfur and potash without high chlorine. Excellent pre-plant fertilizer for root crops and perfect ratio of phosphorus to potassium for summer feeding alfalfa. Also used for side-dressing tomatoes and peppers to provide needed late-season potassium. Apply 5 lbs. per 100 row ft. or 2 lbs. per 100 sq. ft. for gardens, 250-300 lbs. per acre for field crops. 150 lbs. per acre on alfalfa. Bulk density 47 lbs/cu ft. Roughly 180 SGN (1-3mm) granules.

50 lb. Bag (53#)	\$34.99
40+ 50 lb. Bags	\$28.44
2000# Tote	\$1,078.00



These logos signify National Organic Program compliance. Verify with certifier.

**UNDETECTED RESULT IN GLYPHOSATE CONTENT TEST BY WATERS LAB!**

**RE-VITA PRO (5-4-5)**

For healthy crops nutrition is everything. To simultaneously grow and support photosynthesis and natural defenses, plants need to be fed. With proper nutrition we have seen how plants can outgrow pests. An easy to use blend of:

- Layer-hen manure composed for 7 weeks (not heat treated) to enrich with microbes and microbial biochemicals
- Concentrated sea kelp to provide minerals and growth stimulants
- Humate to help in absorption through cell membranes
- Boosted by feather meal, bone meal and sulfate of potash
- With a low salt index of only 16.43

Pelletized together and crushed, resulting in the most complete organic fertilizer available. Each granule contains maintenance doses of Magnesium, Sulfur, Boron, Iron, Manganese, Copper and Zinc from natural sources, 5% Nitrogen, 4% Phosphorus, 5% Potassium and 8% Calcium. No documented deficiency needed for cert. organic use. Fully NOP compliant for application up to day of harvest. Field crops 3-500 lbs. or more per acre applied through planting equipment in the row; Vegetables and Hemp 500-1000 lbs. per acre broadcast before you work the ground for the last time or through bed shaper; Gardens 5 lbs. per 100 row ft. or 2 lbs. per 100 sq. ft.; Fruit and shade trees 2-3 lbs. per inch of diameter buried around drip line; Lawns 50 lbs. per 5,000 sq. ft. in spring and fall. Bulk density 44 lbs. per cubic ft. Roughly 300 SGN (2-4mm) granules.

50 lb. Bag (53#)	\$26.00
40+ 50 lb. Bags	\$19.24
2000# Tote	\$712.00

**PLEASE NOTE:**

(1) NOP Logo indicates products are NOP (National Organic Program) compliant to the best of our knowledge. Certified growers should confirm acceptability with their certification agency.

(2) Numbers in parentheses – for example (53#) – indicate the shipping weight (lbs.) per unit.

Prices are subject to change without notice.

**RE-VITA COMPOST PLUS (3-4-3)**

All the benefits of manure, Plus! Composted layer manure, kelp and humate provide a complex of trace minerals and bio-stimulants easily assimilated by plants. Provides a good balance of N, P and K as well as Calcium and organic matter. Improves structure, water holding capacity and aeration and revitalizes the biological activity in the soil. Uniform, granular form easy to spread. Excellent for gardens, flowers, shrubs, trees, and small grain field crops such as wheat and oats. Apply 5 lbs. per 100 row ft. or 2 lbs. per 100 sq. ft. for gardens, 2-3 lbs. per inch of diameter for fruit and shade trees, 50 lbs. per 3,000 sq. ft. for lawns, and 250-300 lbs. per acre for field crops. Bulk density 41 lbs/cu ft. Roughly 180 SGN (1-3mm) granules.

50 lb. Bag (53#)	\$16.99
40+ 50 lb. Bags	\$12.00
2000# Tote	\$469.00

**GUIDED NITROGEN (12-0-0)**

The magic mixture of humate and kelp that has powered Re-Vita for years now mixed into pelletized feather meal for the ultimate slow release “guided” nitrogen-boosting organic fertilizer. Humate aids in Nitrogen absorption by plant cells. Kelp extract provides minerals and growth stimulants. Diatomaceous earth is added for silica and calcium, molasses for soil microbes. When a slow release nitrogen is needed there is not a more effective organic product available. Pellets run through equipment for easy in-row broadcast or side dress application. Bulk density 35 lbs/cu ft.

50 lb. Bag (53#)	\$44.00
20-39 50 lb. Bags	\$41.00
40+ 50 lb. Bags	\$38.00
2000# Tote	\$1,450.00
4+ 2000# Totes	\$1,390.00



New smaller size to run through planters!

An organic farmer in Plain City, OH saw corn yield go from 167 to 196 bushels per acre by broadcasting 150 lbs./acre Guided Nitrogen before cultivating!



**Re-Vita Fertilizers**  
*Your partner in growing success!*

One ton contains nearly 2 lbs. Iron, 1 lb. Manganese and Zinc, Boron and Copper in addition to Nitrogen, Phosphorus and Potassium.

Made from layer hen manure fully composted in windrows for at least 45 days to enrich with microbes and microbial biochemicals.

Humate is added to supply food for microbes and to encourage delivery of nutrients to plant cells.

Kelp is added to stimulate root growth.

Complies with Food Safety Modernization Act as an acceptable biological soil amendment of animal origin that can be applied with no restrictions and no application interval.



Rome, OH beans grown with Re-Vita

**CHILEAN NITRATE 15-0-2 PRILLS**

For a boost of instantly plant-available Nitrate side dress 150-200# per acre on most vegetables and up to 225# on corn in early season (V4) when soil is still cool. Not to be used for more than 20% of total crop N need. Check with certifier. Non-Hazmat.

50 lb. Bag (53#)	\$47.99
20-55 50 lb. Bags	\$46.00
56+ 50 lb. Bags	\$44.99

**FISH MEAL (10-6-2)**

Get the microbe feeding benefits of the whole fish! Contains 10% nitrogen, 6% phosphorus, 2% potassium and trace minerals in slow release form. Preserved with Naturox. Suitable for organic growers. Use on all types of plants. Will not burn, builds soil humus, and safe to use anytime. Use 10 lbs. per 1000 sq. ft. or 400 lbs. / acre.




50 lb. Bag (53#)	\$91.99
5+ 50 lb. Bags	\$89.00
40+ 50 lb. Bag	\$85.00

**CORN GLUTEN LAWN PLUS (9-0-0)**

A pre-emergent herbicide and early spring lawn fertilizer derived from corn gluten meal. Prevents a broad range of weed seeds from germinating including crab grass and dandelions. Slowly releases nitrogen to keep your lawn thick and green. Apply in late March or early April. Product must be down when Forsythia blooms in order to work. Apply 20 lbs. per 1,000 sq. ft. in early spring and early fall during the first year and 10 lbs. per 1,000 sq. ft. spring and fall in succeeding years. Wait until after first mowing to apply to new grass seedings.

50 lb. Bag (53#)	\$47.99
20-39 50 lb. Bags	\$45.00
40+ 50 lb. Bags	\$42.00

 **PRO TIP:** Use low salt-index fertilizers in a greenhouse, where rain can't flush salts out. This helps prevent salt build up that disrupts soil structure and osmosis – the process of water and nutrients entering roots.

WAYWARD SEED FARM

**DRIED BLOOD**

A slow release, 12% organic nitrogen source. Excellent as a side dressing when extra nitrogen is needed. Stimulates bacterial growth. Also useful as a temporary deer and rabbit repellent. Use 2-3 lbs. per 100 sq. ft. or as a side dress.



25 lb. Bag (28#)	\$39.90
50 lb. Bag (53#)	\$64.00
10+ 50 lb. Bags	\$61.50
40+ 50 lb. Bags	\$59.00

**BONE MEAL**

Steamed, finely ground bone providing 12% phosphorus, 22% calcium and 4% nitrogen. Promotes strong, vigorous bulbs, healthy root systems and good blooming. Excellent for flowers, roses, garden bulbs, shrubs and trees. Use 5 lbs. per 100 sq. ft.



24 lb. Bag (27#)	\$33.99
10+ 24 lb. Bags	\$32.99

**SOFT ROCK PHOSPHATE**

A granular, natural colloidal soft phosphate that contains 20% P2O5 and 20% calcium plus minor and trace minerals. Supplies phosphorus which is needed by all plants for cell enlargement and division, photosynthesis, and respiration. Promotes early root formation and growth. If you notice purple on the leaves of your crops, you may have a phosphorus deficiency. Slow release so it will not leach away like chemically treated or synthetic phosphate. 2% phosphate immediately available. Apply 1-3 lbs. per 100 sq. ft. for gardens, 300-1,000 lbs. per acre for farm crops. Bulk Density 66.5 lbs/ cu ft. **Please call for truckload or bulk pricing.**



50 lb. Bag (53#)	\$18.25
40+ 50 lb. Bags	\$15.75

**SOFT ROCK PHOSPHATE POWDER**

To mix in potting soil or suspend in water. May mix in liquid fertilizer blends for calcium and phosphorus boost.



50 lb. Bag (53#)	\$19.75
40+ 50 lb. Bags	\$16.25

Customers get creative with ways to get our granular fertilizers in the row before cultivating



**AZOMITE® MINERAL AND TRACE ELEMENT POWDER**



Over 65% Silica! When volcanic ash merged with seawater a mineral composition now called AZOMITE® was created. AZOMITE® represents the “A to Z” of Minerals Including Trace Elements. A fine powder, use AZOMITE® to condition soil or mix with compost, manure or potting soil in the same way Jersey Greensand was used. For larger areas, we recommend 132 lb. per acre. For established beds or house plants sprinkle ¼ cup around each plant. Mix 1-2 oz. per cu. ft. of potting soil.

44 lb. Bag (48#)	\$23.00
20+ 44 lb. Bags	\$21.50
50+ 44 lb. Bags	\$20.50

**AZOMITE GRANULAR**

for use in fertilizer spreader



44 lb. Bag (48#)	\$26.50
20+ 44 lb. Bags	\$24.50
50+ 44 lb. Bags	\$23.50

**COTTON SEED MEAL**

Average analysis 6% nitrogen, 2% phosphate, and 1% potash. Slow release. Will not raise soil pH. Good for acid loving plants such as azaleas, rhododendrons, and blueberries. Apply at 2 lbs. per 100 sq. ft.

50 lb. Bag (53#)	\$35.90
20+ 50 lb. Bags	\$34.00
40+ 50 lb. Bags	\$31.00

**FEATHERMEAL**

A 12-14% organic nitrogen made from hydrolyzed ground feathers. Slow release. Will not burn seeds and foliage. Use on corn, lettuces, lawns and other crops that need extra nitrogen. Apply ½ -1 lb. per 100 sq. ft. on gardens and lawns; 100-300 lbs. per acre on field crops.



50 lb. Bag (53#)	\$37.00
20-39 50 lb. Bags	\$34.50
40+ 50 lb. Bags	\$32.25



Adding AZOMITE to the soil increases the flavor in our vegetables.

BEECH GROVE FARM, TROUT RUN, PA

**SULFATE OF POTASH**

(0-0-50) A mined, all natural source of potash (50%) without chlorine. Also contains 18% sulfur. Use ½ lb. per 100 sq. ft. or 200 lbs. per acre. Bulk density 75 lbs/cu ft.



50 lb. Bag (53#)	\$33.20
10+ 50 lb. Bags	\$32.50
40+ 50 lb. Bags	\$32.00
2000# Tote	\$1,180.00
<i>Call for truckload and bulk pricing</i>	

**AGRO-LIG HUMATE**

A mined, naturally occurring organic leonardite containing 65-75% high quality humic acids, 31% carbon, and a complex of other nutrients similar to chelates. Stimulates plant enzymes, root growth and beneficial soil organisms. Continued use improves the structure and organic content of the soil. For gardens apply 2 lbs. per 1000 sq. ft.; Field crops 100 lbs. per acre. **Please call for truckload and bulk pricing.**



50 lb. Bag (53#)	\$22.00
20+ 50 lb. Bags	\$21.00
56+ 50 lb. Bags	\$19.99

**GYPSON**

Pelletized, mined, natural calcium sulfate. Supplies 21% calcium and 16% sulfur. Loosens tight clay soils, aiding aeration and water penetration. Use when calcium and sulfur are needed and pH is high. Use 2-3 lbs. per 100 sq. ft. **Please call for bulk pricing.**



40 lb. Bag (43#)	\$8.64
70+ 40 lb. Bags	\$7.70
200+ 40 lb. Bags	\$7.00

*Humates are an excellent additive to any fertilizer or foliar spray program.*

*They contain beneficial humic and fulvic acids and help to hold many easily-leached micro-nutrients like Boron in the root zone.”*



**KELP MEAL**  
(ASCOPHYLLUM NODOSUM)



Ascophyllum Nodosum kelp meal which contains 60 trace minerals in chelated form, 14 vitamins, plant growth regulators, enzymes, and hormones. Research shows that kelp improves seed germination, root and plant growth, fruit set, and overall health of plants. Makes plants more disease and stress resistant. Increases soil fertility and microbial population. Used by wise growers to amend most micronutrient deficiencies slowly and safely. Broadcast using 3/4 lb. per 100 sq. ft. or 200 lbs. per acre. As **animal feed supplement** see "Feed Supplements" Section.

10 lb. Bag (12#)	\$27.00
25 lb. Bag (28#)	\$43.00
50 lb. Bag (53#)	\$76.00
20-39 50 lb. Bags	\$69.50
40+ 50 lb. Bags	\$67.75

**PELLETIZED DOLOMITE LIME**



A dust free dolomitic limestone. Easily spread with any type fertilizer equipment. Supplies 21% calcium and 12% magnesium. Use 3-5 lbs. per 100 sq. ft.

50 lb. Bag (53#)	\$9.25
40+ 50 lb. Bags	\$7.59

**10% GRANULAR BORON**



A dry granular 10% boron to amend boron deficiency. Can be mixed in with other granular fertilizers.

50 lb. Bag (53#)	\$36.00
10+ 50 lb. Bags	\$34.00



**Aaron,**  
I had great success last year using your recommendations and want to continue that success for this coming year. We are doing intensive market garden farming on 2 acres. **THE OHIO EARTH FOODS PRODUCTS WE USE HAVE BEEN THE BASIS OF OUR SUCCESS USING NATURALLY GROWN METHODS."**

**ORGANIC PELLETIZED ALFALFA MEAL 2.7-0.5-3**



A wonderful low-salt index fertilizer and soil conditioner, especially good for rejuvenating high-tunnel beds. Can be used in Mesophyllic Fertilizer. With a Carbon/Nitrogen ratio of 16.4 and salt index of only 11.35 this is a low salt and high carbon feast for the microbes in your high-tunnels!

50 lb. Bag (53#)	\$33.99
20+ 50 lb. Bags	\$31.99

**EPSOM SALT**



9.6% Magnesium 12.4% Sulfur. Use when you need Magnesium and Sulfur ad pH is high. Apply per soil test recommendations.

50 lb. Bag (53#)	\$40.00
20+ 50 lb. Bags	\$38.00

**WORM CASTINGS (1-0-0)R**



A pure, all natural plant food produced by the incredible earthworm. Non burning, long lasting. Helps plant and root growth and improves aeration of soil. Use in gardens and flower beds at rate of 1/2 cup per plant every two months. In potting mixes add 1 part earthworm castings to 3 parts soil. For roses mix 4 cups into soil around each plant. **Please call for bulk pricing.**

20 lb. Bag (23#)	\$17.00
20+ 20 lb. Bags	\$14.00
2000# Bulk Bag	\$700.00

**HI-CALCIUM LIME**



A pelletized lime containing 30% calcium and 4% magnesium. Easy to spread. Use on soils low in calcium but high in magnesium. Apply 3-5 lbs. per 100 sq. ft.

50 lb. Bag (53#)	\$9.25
40+ 50 lb. Bags	\$7.59

**SULFUR** 90% sulfur for soil application. Useful in lowering soil p.H.



Excellent for rhododendrons blueberries, azaleas and other acid loving plants. Easy to spread granular form. Use according to soil test recommendations do not over apply. Maximum use 100 lbs. per acre or 1/4 lb. per 100 sq. ft. Bulk density 76 lbs/cu ft.

50 lb. Bag (53#)	\$21.50
20+ 50 lb. Bags	\$20.00
40+ 50 lb. Bags	\$19.00

**SOIL TESTING**

Soil testing is a valuable tool in determining the condition and needs of your soil. Working to balance your soil will ensure that nutrients are present and available to be taken up by roots.

**Analysis and Recommendations Include:**

- Cation Exchange Capacity (C.E.C. or T.E.C)
- Percentage of base saturation and level of exchangeable Calcium, Magnesium, Potassium and Sodium
- pH and percentage of organic matter
- Level of available Phosphorus
- Level of soluble salts, important for high tunnel growers to monitor
- Easy to understand recommendation on how to amend soil using products that we carry



Recommendations are made using natural products. Simply take 8-10 probes 6-8" deep in soil in area to be tested, mix together, and send 2 cups of mixture to us. Identify whether the test is for garden, lawn or field. If field, state what crop was planted last year and what crop will be planted this year. Allow **at least 3 weeks** for results. Call us with questions. **Payment required with soil sample.**

**BASIC SOIL TEST**

\$20.00 per sample

**MICRONUTRIENT PACKAGE**

Additional tests for iron, copper, manganesees, boron, sulfur, and zinc. \$20.00 per sample

**Balancing Your Soil**

*At Ohio Earth Food we believe in the time tested theory's of agronomists Neil Kinsey and Dr. Albrecht. These principles will be evident in our recommendations and in the products that we sell.*

*Specifically, to grow the most nutrient rich and disease and insect resistant food:*

1. Test your soil and apply amendments to balance the soil per base exchange method to an ideal 65-70% Calcium, 12-15% Magnesium, 4% Potassium and 1-5% Sodium.
2. Build organic matter in your soil to increase nutrient, air and water holding capacity and tilth by using organic fertilizer and incorporating compost, residue and cover crops.
3. Feed your soil and let the soil feed the plant and native microbes.



**PRO TIP:**

By tissue testing every 2 weeks and foliar spraying liquid nutrients from page 11 a Highland Co. grower reported 100% conversion from tomato blooms to fruit and an average of 43 lbs. per plant!

FROM OHIO EARTH FOOD

**A Note on Nutrients...**

*We think it is absolutely essential that plants receive all of the nutrients possible in order to "outgrow" pests and produce nutrient dense crops. Therefore we endeavor to provide you the grower with products that will provide nutrients for the 3 mechanisms by which plants can most efficiently receive them.*

*Diffusion – Nutrients like Potassium (K), Phosphorus (P), Sulfur, Iron and Zinc are taken up by roots via contact with surrounding soil. Soil tests should be performed every other year in the fall to make sure the ideal levels of these nutrients are present.*

*Mass flow – Fertilizers like ReVita, Jumpstart and our line of liquids are designed to provide high soil nutrient concentrations in the root zone that will easily dissolve into the soil solution to be sucked up through the roots as water transpires or leaves through plant leaves.*

*Microbial delivery – Plant available forms of Nitrogen (called Nitrate), Phosphorus (called phosphate) and Sulfur (called sulfate) are created or "mineralized" and then released to plant roots by bacteria and fungi in the soil. Having all of the necessary microbes present in the soil in healthy populations is critical. Continually working to build organic matter, monitoring pH and maintaining living roots in the soil year round will keep this system working. Organic farming is feeding the soil so it will feed the plant.*

**Ohio Earth Food can now custom blend granular products to fit you soil test!**

1 ton minimum, blend will come in 1 ton tote bags. Price is the cost of the individual products based on quantity purchased plus mix fee. \$65 per ton July-January only (not available February-June). Please allow up to 3 weeks to receive custom blended order.



## LIQUID NUTRIENTS, DISEASE & INSECT SPRAYS

We have hand selected the most effective sprays based on our testing and results seen by our customers. We bring them to you at the lowest prices!



Respond to deficiencies seen in plant tissue and sap analysis.  
Apply foliar, through drip or water in.

### MICRONIZED SOLUBLE FISH POWDER WITH CRAB 10-2-1

Soluble fish powder, now micronized to dissolve better in water! An effective alternative to the high cost of using and transporting liquid fish. Mix 1 lb. with 10 gallons of water to make liquid fish fertilizer that can be applied via drip, foliar spray or in a transplant solution. Use when extra nitrogen is needed and during periods of stores such as pre-bloom, early leaf development, and fruit set. Addition of crab meal feeds chitin eating bacteria who attack pests! Combine with soluble seaweed powder and liquid Bio-Hume for even better results. 2 lbs per acre in 20 gallons of water.

25# Box (27#)	\$197.76
5+ Boxes	\$189.00
20+ Boxes	\$174.00

### ORGANIC GEM LIQUID FISH FERTILIZER 3-3-3

Fresh fish only providing pure organic liquid fish rich in trace minerals, natural fish proteins, oils and collagen free from heavy metals. Ohio Earth Food does not allow this product to freeze which reduces separation. Use banded in soil with or before seed/transplant at a rate of 10 gal/acre on corn or 5 gal/acre for most vegetables. Foliar spray most crops at 5 gal per acre. Crop-specific rates available. Must mix 1 part fish with min. 15 parts water (50 parts water foliar spray) and use 50 mesh screen or larger. Shake well before mixing, stir mix and do not let mix sit. Works very well mixed with 2 pints 12% Bio-Hume per acre!

1 Gallon (12#)	\$36.00
6-17 Gallons	\$34.00
18+ Gallons	\$31.75
55 Gallon Drum	\$440.00
275 Gallon Tote	\$2,100.00
4+ Totes	\$2,000.00



### JUMPSTART II WITH MYCORRHIZAE 4-1-6

Delivers macronutrients and micronutrients with humic acid to make them available with the spores of the miraculous mycorrhizal fungi to inoculate roots at time of planting. Pre-mix 2 lbs. in 2 or more gallons of water before adding to planter tank for each acre of transplants. Can be combined with other liquid fertilizers. Apply in row as liquid starter or use as transplant solution. Mix 2 lbs. per acre to broadcast spray on sewn forage seeds.

20 lb. pail (26#)	\$219.00
3+ 20 lb. Pail	\$200.00



### \* NEW PRODUCT \* CERTIS SIL-MATRIX LC

29% Potassium Silicate foliar spray, fungicide and insecticide. For control or suppression of powdery mildew, mites, aphids, whiteflies, gray mold, Asian soybean rust, gray leaf spot, brown patch, dollar spot, and snow mold. Potassium silicate is a source of highly soluble potassium and silicon, use as a silica amendment, with the added benefit of supplying small amounts of potassium. volume to volume concentration of 0.25% to 1% spray solution.

2.5 gal (30#)	\$89.99
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### JUMPSTART 5-1-9

A soluble biological mix for "pop up" starter and all season foliar spray applications. Contains high quality soluble fish, crab, kelp and humate to provide major nutrients, trace elements and bio-stimulants. Enhances seed germination rate, early root development, nutrient uptake and biological activity in soil and on foliage. Pour directly over seeds in the row, in liquid planters as a transplant solution or broadcast sprayed at planting. Use 1-2 lbs. per acre pre-mixed and shaken with 2 gallons of water before added to tank. Inject 1-2 lbs. per acre or 1 teaspoon per plant pre-mixed with water into drip fertigation system.

20 lb. Pail (26#)	\$179.90
3+ 20 lb. Pail	\$169.90



### FERTICELL PRO K 0-0-20 LIQUID POTASSIUM

Fully soluble, plant derived fertilizer designed to supply potash in a high plant available form. Unique Ferticell® manufacturing produces a Potassium with little to no sulfur content. Light and frequent foliar or drip applications will reduce deficiencies that can cause crop damage. Soil or foliar application 1-2 qt./acre.

2.5 Gallons (26#)	\$168.80
5 Gallons (53#)	\$334.20

### \* NEW PRODUCT \* FERTECELL PROCAL™ 3-0-0 PLUS20CA

Organic chelated calcium fertilizer designed specifically for providing calcium via foliar application. Derived from calcium carbonate, ground to less than one-micron particle size, for a completely water-soluble organic calcium. 3% plant-derived protein nitrogen content is proven to facilitate calcium uptake and transportation within the plant. 2-8 lbs./acre per application.

44 lb. Bag (47#)	\$312.40
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**Biacor liquid chelates, highest quality plant available nutrients. Apply 0.5-1.5 qts/acre in 100 parts water for foliar spray, 1-3 qts/acre in 20 parts water soil application.**

### BIACOR MICRO-PLENTY™ 2-0-1 (2% FE, 2% ZN, 2%Mn, 0.1% B, 0.1% CA)

Excellent general purpose foliar/soil product when more than one nutrient is deficient. In addition to nitrogen and potassium, MICRO-PLENTY™ has all the essential micronutrients in one package.

1 Gal (13#)	\$27.99
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### BIACOR CHELATED MAGNESIUM 2.5%

Magnesium is an essential part of the chlorophyll molecule critical for photosynthesis. Helps in formation of amino acids, vitamins and sugars.

1 Gal (13#)	\$22.99
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### BIACOR CHELATED COPPER 5.0%

Plays critical role in photosynthesis and chlorophyll formation, activates enzymes in respiration processes, and aids amino acid to protein conversions. Also contributes to the development of color and flavor.

1 Gal (13#)	\$31.99
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### FERTICELL EXPLORER LIQUID 10-0-0

Organic liquid nitrogen fertilizer blend of amino acids of soy protein hydrolysate. Higher amino acid and carbon content and lower risk of burn or salt contamination. Reliable release curve in all environmental conditions. 10% Protein Nitrogen, 60.9% Amino Profile. Compatible with all conventional Nitrogen sources and most fertilizers. Especially effective response to leaching of granular nitrogen in the field. Soil Application: 1-4 qts. per acre, Foliar Application: 1-2 qts. per acre.

3.5 Gallons (40#)	\$179.24
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### SOLUBOR

A soluble 20.5% boron product that easily amends a boron deficiency. Applying 2.5 lbs per acre of solubor would add .5 lbs of boron to the soil.

50 lb. Bag (53#)	\$124.00
5+ 50 lb. Bags	\$110.00



**BIACOR CHELATED MANGANESE 5.0%** Essential for enzyme activities and helps control plants natural growth regulator levels. Aids in nitrogen, phosphorus and magnesium uptake and utilization.

1 Gal (13#)	\$27.99
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**BIACOR CHELATED ZINC 5.0%** Required by plants for maintaining enzymatic activity and auxin levels. Involved in the production and use of growth regulators. Deficiency greatly reduces plant growth and quality of all crops.

1 Gal (13#)	\$30.99
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**BIACOR MOLYBDENUM COMPLEX 3%** For conversion of nitrates to amino acids and into metabolic compounds, e.g. protein. Also required by legumes (alfalfa, peas, beans, clover, etc.) for the fixation of nitrogen. Often forgotten but essential for growth.

1 Gal (13#)	\$43.99
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★ NEW PRODUCT ★

K HUMATE 0-0-6

Highly concentrated liquid humic acid with 6% Potassium! Continued application will provide plants with potassium needed for fruit setting, improve soil moisture and nutrient retention, reduce nutrient lock-up in the soil, improve soil structure and stimulate plant root growth and soil biological activity. Apply 3 oz. per 1000 sf (1 gal/acre) to soil multiple times per season.



5 Gallon Pail (53#)	\$89.99
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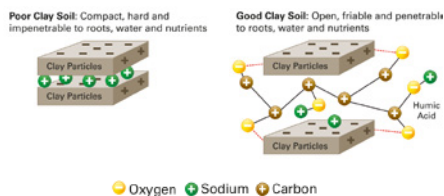
BIO-HUME 12%  
CONCENTRATED LIQUID

**HUMUS** Give your roots **CLAWS!** A 12% liquid humus derived from Leonardite. Enhances uptake and soil retention of major nutrients (N-P-K) and trace elements like Boron, Iron, Zinc, and Manganese. Increases seed germination, cell division, and root development. Also improves structure, aeration, drainage and water holding capacities of soil. Contains humic acid but has no effect on soil pH. Soil application use 2 oz. per 1,000 sq. ft.; Transplanting and foliar feeding of fruits, vegetables, and lawns use 1 oz. per 1,000 sq. ft. Applications should be mixed in a minimum of 1 gallon water. Very beneficial on field and forage crops at 2 pints per acre. Can be mixed in same spray with liquid seaweed and fish.

1 Gallon (10#)	\$19.90
5 Gallon Pail (52#)	\$79.90
275 Gallon Tote	\$2,850.00



Humates Explained



PREMIUM CAL 33 (0-0-4-33Ca-4S)

Calcium and potassium in a carbon and kelp base (Calcium Carbonate). This product contains a generous amount of available calcium and magnesium. The ratio of calcium to magnesium is ideal. Bio cultures have been added to resolubilize the existing but unavailable calcium already in the soil, allowing these nutrients to be very available to the root hair and strengthening to the root frame. Apply through drip or foliar 1-2 qts./acre pre-bloom, post-bloom and as needed. Foliar application coats plants with protective layer.



1 Gallon (10#)	\$38.99
4+ Gallons	\$36.00
12+ Gallons	\$34.50

**NEW LOWER PRICING!**

ORGANIC MOLASSES

Organic Blackstrap Molasses. Add 1 oz. / 5 gal compost tea or other foliar spray or liquid fertilizer.



50 lb. Jug (est. 5 gal) 55#	\$48.00
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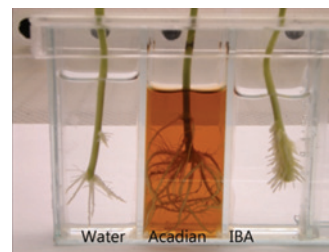
Recommended liquid injected through drip per 1000 sf of greenhouse  
For vegetables planted before frost-free date

Product	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Liquid Fish (or Ferticell Explorer 1/10 to 1/3 the rate of fish)	32 oz.	32 oz.	32 oz.	32 oz.	32 oz.	32 oz.
Soluble Seaweed (Double for Stimplex or liquid seaweed)	1 tbsp	1 tbsp	1 tbsp	1 tbsp	1 tbsp	1 tbsp
12% Bio Hume Liquid	2 oz.	2 oz.	2 oz.	2 oz.	2 oz.	2 oz.
Chilean Nitrate (Dissolve in gal. water pre-injection) <b>Stop use if burning!</b>	6 oz. by weight	6 oz. by weight	6 oz. by weight			
Ferticell Pro K 0-0-20				1 oz.	1 oz.	1 oz.
<b>Est. Total Oz. of Nitrogen</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>1</b>	<b>1</b>	<b>1</b>

2.9 to 3.7 oz. Nitrogen per 1,000 sf. is recommended per week in addition to pre-plant applied N. "Foliar feeding of nitrogen, phosphorus and potassium is not as effective as soil application for these major nutrients." University of Missouri article on tomatoes in a high tunnel. Lewis W. Jett, Division of Plant Sciences.

We recommend low salt index granular like ReVita Pro 5-4-5 worked into soil 15 lbs. 1000 sf. pre-plant. Continued use of Chilean Nitrate may build up salt in greenhouses.

Continue Until Harvest



Acadian Stimplex naturally stimulates root growth

STIMPLEX CROP  
BIOSTIMULANT

A natural plant growth stimulant containing Cytokinins and a complex matrix of plant nutrients, trace elements, carbohydrates, and amino acids occurring in Ascophyllum Seaweed. Increases fruit set, brix levels and earlier maturity. Improves crop quality, marketable yields, and resistance to environmental stress. Use 1½-2½ pints per acre on vegetables, 2 pints per acre on field crops, 2-3 pints per acre on fruit, and 1½-2 pints per acre on turf. Rates are per application. Drip or foliar.



2.5 Gallon Jug (25#)	\$139.00
4+ Jugs	\$129.00



Stimplex will make a fence post grow.  
- TOBI, POLK OHIO

No it will make it bloom!  
- JOHN, W. SALEM OHIO

HUMUS WP 80

A highly concentrated, water soluble humate containing 80% humic acid extracted from ground leonardite. Converts unavailable minerals into soluble forms that plants can assimilate. Increases aeration and water holding capacity of soil. Can be used before planting, at time of planting, as a side dress, and in transplant water. Use 3-10 lbs. per acre on vegetables divided into three applications, 3-10 lbs. per acre on pasture and field crops, and 2-4 lbs. per acre on turf divided into several sprays.



50 lb. Bag (54#)	\$300.00
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Applications of liquid seaweed provide trace-elements and micro-nutrients in a naturally chelated form that are readily assimilated by plants. Foliar feeding results in the trace elements and bio-stimulants reaching the sap stream far more quickly than they would if applied to the soil. Use Soluble Seaweed Powder or Stimplex for certified organic.

MAXICROP LIQUID SEAWEED

A liquid kelp made from the whole non-fibrous content of seaweed. Contains a complex of over 60 chelated elements and bio-growth stimulants which have tremendous effect on seed germination, root development and general growth. Use as a foliar spray, transplanting solution or seed inoculate. Mix 2 tablespoons per gallon of water. Spray every 2-3 weeks. Certified growers should use soluble seaweed powder.

Quart (3#)	\$14.99
Gallon (10#)	\$27.00
6-17 Gallons	\$23.99
18+ Gallons	\$21.99
<b>With 2% Iron Gallon (10#)</b>	<b>\$29.99</b>

NU FILM P SPREADER  
STICKER SURFACTANT

Non-ionic liquid sticking agent is designed to lengthen the life of foliar-applied insecticides and fungicides. Forms an elastic film which encapsulates and holds products on the foliage in spite of rainfall, irrigation, wind and UV degradation. Mix in spray tank 4 oz-1 pint per acre or 100 gal final mix.



1 Gallon (12#)	\$68.99
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MAXICROP SOLUBLE  
SEAWEED POWDER  
0-0-17

A dehydrated seaweed extract with all the benefits of liquid seaweed, but at a lower cost. Easy to use powder dissolves quickly for spraying. One teaspoon makes a gallon of spray. (10.7 oz. powder makes one gallon of liquid concentrate.) Field crops general application: 2 lbs. per acre over the season.



10.7 oz. Pouch (2#)	\$16.00
22 lb. Carton (25#)	\$212.00
44 lb. Carton (49#)	\$379.14
4+ 44 lb. Cartons	\$359.00



The next day after spraying insect/disease control, foliar spray Ferticell Explorer, Pro K, liquid seaweed and liquid Calcium plus any micronutrients found deficient in a leaf or sap test.

FROM WAYWARD SEED FARM



## MICROBIAL PRODUCTS

### MYCOAPPLY

**ULTRAFINE ENDO** Can be used to dust rough seeds in planter or dissolved and sprayed on seeds or watered in after planting. Use .7 to 1.5 lbs. per acre depending on seed. Great for wheat; .7 lbs per 100 pounds of seed.



20 lb. Bag (23#)	\$300.00
3-6 20 lb. Bags	\$290.00
6+ 20 lb. Bags	\$269.00

### MYCOAPPLY ENDO GRANULAR



To Inoculate seed mix in with starting media 2 lbs per cubic yard. Or for transplanting sprinkle into hole 3.2 oz./100 4 in. plants, 6.4 oz./100 gallon plants. Broadcasting with forage seeds at 4 lbs./acre is the least expensive way to inoculate.

40 lb. Bag (43#)	\$280.00
3-6 40 lb. Bags	\$259.00
6+ 40 lb. Bags	\$240.00

### ★ NEW PRODUCT ★

### MYCOAPPLY SOLUBLE MAXX 1-5-5



A soluble powder containing **9 species of Endomycorrhizae and 10 species of Ectomycorrhizae** for the ultimate in inoculation. Also contains kelp, humic acids and specially formulated amendments. Mix 1 oz. with up to 12 gallons of water to inoculate any hosting plant.

1 lb. Bag (3#)	\$42.00
10+ 1 lb. Bags	\$37.70



View through microscope of fungi growing off organic matter in Highland Co. Ohio soil

## INSECT & DISEASE CONTROLS

### ★ NEW PRODUCT ★

### XENTARI BT



Biological insecticide containing 54% of strain (ABTS-1857) *Bacillus thuringiensis* subspecies *aizawai* (Bta). Controls caterpillar pests on vegetables, fruits, nuts, row crops, and turf such as armyworms and diamondback moth larvae. 1/2-2 lbs per acre ( 1-4 tps/gal). Use higher label rate under heavy pest pressure. For best results, apply twice per generation, depending on pest pressure.

1 lb. Pkg. (3#)	\$26.99
5 lb. Pkg. (7#)	\$117.99



## PEST PREVENTION RECOMMENDATIONS FOR PRODUCE

	<i>Tank mixes for worms</i>		
	<i>Optional additives or severe disease pressure or sucking and chewing insects</i>		
<i>Anthraxnose, Black Mold, Damping Off, Early Blight, Downy or Powdery Mildew, Fruit Rot, Gray Mold, Leaf Spot and Root Zone Diseases</i>			Experienced cole crop growers spray the following based on scouting and degree days as often as every 5 days. Practices vary but mixing Dipel DF (.5 to 1 lb./acre) with Venerate or Regalia, and alternating that with XenTari and either Des-X Insecticidal soap, Regalia or Venerate. Some growers repeat Dipel 2x (alternating tank mix Venerate or Regalia) and then XenTari 2x (alternating tank mix Des-X or Regalia).
Seeds in trays - apply to soil	Monterey Complete Disease Control 1 tsp/gallon at planting Stargus (1 tbs/gal) or for larger scale Serenade ASO (1 tsp/gallon at planting with Stargus) and Regalia (1 tbs/gal) every 10 days		Add to rotation tank mix 1 - Grandevo (2 tbs/gal) for sucking and chewing insects. Add to rotation tank mix 2 - Venerate (2 tbs/gal) + Azera Pro (1-2 oz./gal) for aphids, leafhopper, stink bug, thrips, corn borer, bean cutworm.
At Transplant - apply to soil	Stargus (2-4 qts./acre or 2 tbs/gal) and Regalia (1.3 tbs/gal) with Jumpstart or Jumpstart II (1-2 lbs./acre) in water wheel or can		Add to rotation tank mix 1 - Grandevo (2 tbs/gal) for sucking and chewing insects. Add to rotation tank mix 2 - Venerate (2 tbs/gal) + Azera Pro (1-2 oz./gal) for aphids, leafhopper, stink bug, thrips, corn borer, bean cutworm.
Transplant to First Flower - Foliar spray - Rotate every 7 days	Rotation tank mix 1: Regalia (2 tbs/gal) + Insecticidal Soap (Des-X 2% solution) Rotation tank mix 2: Stargus (2 tbs/gal) + STIMPLEX or MAXICROP seaweed		Add to rotation tank mix 4 oz. Milstop for every 4400 sf with 10 gal water for severe Downy/Powdery mildew or Botrytis.
Flowering through Harvest - Foliar Spray - Rotate every 7 days	Rotation tank mix 1: Regalia (2 tbs/gal) + Cueva copper .5-2 gal/acre or .5-2 oz/gal + Insecticidal Soap (Des-X 2% solution) Rotation tank mix 2: Stargus (2 tbs/gal) + STIMPLEX or MAXICROP seaweed		



**STARGUS BIOFUNGICIDE**



*Bacillus amyloliquefaciens F727*  
Control diseases longer with extended action. Provides broad spectrum disease control on challenging diseases such as downy mildew, Botrytis, Fusarium and more. Re-apply 2-4 times at 7-10 day intervals for extended efficacy throughout the season. Multiple modes of action make it a great resistance management tool. APPLICATION: Foliar (Aerial or Ground), Chemigation, Soil Treatment, Backpack/Hand Sprayer Application rate 2-4 qts./acre or 2 tablespoons/gal.

2.5 Gallon (25#)	\$176.00
4+ 2.5 Gallons	\$167.00

**MONTEREY LIQUID COPPER**

Liquid concentrate. Use 1/2-2 oz. per gallon of water every 7 to 10 days.

16 oz.	\$18.99
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Photo courtesy of Sunbeam Family Farm Licking Co. Ohio

Let us help you **CREATE YOUR OWN LOW-SALT GREENHOUSE BED-PREP MIXTURE** with products like ReVita, Alfalfa meal, Kelp and AZOMITE that work with your soil.

**REGALIA BIOFUNGICIDE**



Powered by extract of the Reynoutria plant for use on edible and field crops. Applied as a preventative, will protect treated portions from Anthracnose, Bacterial Spot, Bacterial Speck, Black Mold, Damping-off, Early Blight, Gray Mold, Late Blight, Phytophthora Blight, Powdery Mildew, Fusarium spp., Phytophthora spp., Pythium spp., Rhizoctonia spp. Apply prior to disease infestation: Above ground fruit and vegetables 1.3 – 2.6 Tbsp./gal water (0.5 – 1.0%) applied at 1.15 – 2.3 gal/1000 sf (50 – 100 gal/acre). As a pre-plant dip for suppression of certain soil-borne diseases 1.3 Tbsp./gal (0.5 – 1.0%). Works great mixed with NuCop. Use CG for hemp label.

2.5 Gallon (30#)	\$229.00
4+ 2.5 Gallons	\$216.00
CG 1 Gallon (13#)	\$143.00

**NUCOP 50 WP**



A soluble copper fungicide-bactericide for control of anthracnose, fire blight, canker, blossom end rot, scab, bacterial blights, downy and powdery mildew, leaf spot, black and brown rot, syptoria and more. Use 2-3 oz. per gallon of water or 1-3 lbs. in 20 gallons of water per acre on vegetables, 1-12 lbs. per acre on fruit. Repeat every 7-10 days or as needed.

20 lb. Bag (21#)	\$140.00
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**MILSTOP SP**



Contact fungicide that controls foliar diseases on a wide variety of crops. Well-known for efficacy against disease with a high level of safety for bees and the environment. Contains built-in spreader sticker. Acts rapidly to cause dehydration and total collapse of spores and the mycelium of harmful fungi. Use for disease resistance management. Reentry interval four hours, zero-day pre-harvest interval and residue exempt. Mix at a rate of 2.5 to 5.0 lbs./A in 100 gallons of water. Spray solution to thoroughly wet stems and foliage at the first sign of disease. Apply a minimum of 20 gallons of mixed spray per acre. Do not exceed a use rate of 0.5 pounds of MilStop SP per 4350 sq ft or 1.15 pounds per 10,000 sq ft, per application. Repeat application at 10 to 14 day intervals or as needed.

5 lb. Bag (8#)	\$59.99
4+ Bags	\$55.99



**WE TEST OUR PRODUCTS & OUR COMPETITORS PRODUCTS TO BE SURE THAT we are offering our customers the very best.**

**NEW PRODUCT**  
**SERENADE ASO**



Designed to protect against the effects of soil and foliar bacterial and fungal diseases. Applied at planting or through chemigation, Serenade ASO quickly builds a disease-protection zone around the seed or transplant. Applied as a foliar spray, Serenade ASO protects crops against diseases. A broad spectrum preventative biofungicide, Bacillus Subtilis (strain QST 713), recommended for the control or suppression of anthracnose, bacterial spot, black spot, black mold, botrytis, leaf blight, downy and powdery mildew, early and late blight, fire blight, gray mold, scab and more. For best results, apply prior to disease development or at first sign of infection. Mix 1-4 qts./acre in 3-20 gallons of water. Repeat on 7- to 10-day interval. For improved control, use in a tank mix with copper-based bactericides at labeled rates.

2.5 Gallon (30#)	\$139.00
4+ 2.5 Gallons	\$135.00

**MONTEREY COMPLETE DISEASE CONTROL**



For control of powdery mildew, leaf spot, anthracnose, grey mold, and other diseases mix 1 teaspoon to 1 tablespoon per gallon (more for more severe outbreak or in more disease prone environments) foliar sprayed for above ground disease or applied to soil for soil borne disease. Use every 7 days.

16 oz. (2#)	\$22.99
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**CUEVA**



A certifiable, flowable liquid copper fungicide for control of downy mildew, powdery mildew, white and gray mold, septoria, anthracnose, leaf and bacterial spot, bacterial blights, botrytis, scab, soft and bottom rot, early and late blights, dollar spot and more. Can be used on vegetables, fruits, field crops, herbs, ornamentals and turf. Use .5-2 gallons per acre. For best control, apply two weeks before diseases normally appear and repeat at 7-10 day intervals.

2.5 Gallons (25#)	\$146.99
4+ 2.5 Gallons	\$137.99

★ NEW PRODUCT ★

DES-X INSECTICIDAL SOAP

A natural insecticide made from potassium salts of fatty acids. Can be applied up to the day of harvest. Kills aphids, mealybugs, spider mites, leafhoppers, whiteflies, scales, grasshoppers, earwigs, etc., on contact but spares beneficial insects. Also controls powdery mildew. Use on house plants, vegetables, flowers and in greenhouses. Concentrated. Use a 2% spray solution per acre.



2.5 Gal. Concentrate	\$141.99
4+ 2.5 Gal.	\$132.50



**PRO TIP:** Spray 1 lb. of Dipel DF over an acre of sweetcorn every 5-10 days from tassel to silk on sweetcorn to prevent ear worm.

MAPLE STAR FARM

DIATOMACEOUS EARTH INSECT KILLER



Made from the finely ground fossils of prehistoric fresh water diatoms. D.E. kills common household and garden pests like roaches, ants, fleas, beetles, slugs and other listed insects by mechanical means rather than poisons. Can also be used on pets for flea and tick control.

4.4 lb. Bag (6#)	\$12.50
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Michael Kilpatrick of The Farm on Central in Carlisle, OH and the Thriving Farmer Podcast shows off a beautiful Ginger and Turmeric crop

DIPEL DF



A biological insecticide containing a high concentration of Bacillus Thuringiensis sub. Kurstaki, strain H-D1. Controls the larvae of loopers, hornworms, armyworms, leaf-rollers, cabbage-worms, cutworms, webworms, gypsy moths, tent caterpillars, alfalfa caterpillars, and other lepidopterous insects. Can also be applied to stored grain to control Indian Meal Moth. May be used up to day of harvest. Use 1/2-4 teaspoons per gallon of water or 1/4-2 lbs. per acre depending on crop and infestation.

1 lb. Pkg. (3#)	\$20.99
5 lb. Pkg. (7#)	\$96.99

MONTEREY B.T.



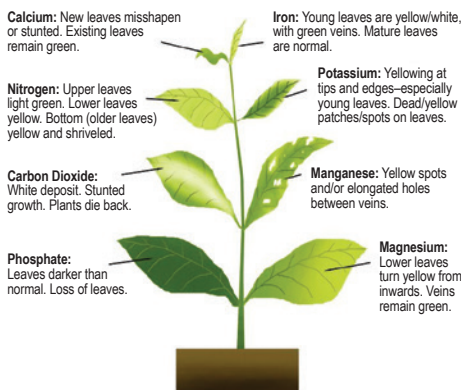
Monterey B.T. (Bacillus Thuringiensis)\* A liquid microbial insecticide containing Bacillus Thuringiensis. Controls cabbage looper, hornworm, fruit tree roller, gypsy moth and other leaf eating worms. Nontoxic to humans, pets, birds, and bees. Apply when worms or caterpillars are first noticed, then at five to seven day intervals and after heavy rains. Must be eaten to be effective. Spray leaf surfaces thoroughly, top and bottom and use all of spray mixture within 24 hours.

FRUITS AND VEGETABLES:

Mix 1.5 fluid ounces per 3 gallons of water to cover an area of 1,000 square feet.

Pint	\$16.00
Gallon	\$94.90
4+ Gallons	\$88.90

SIGNS OF NUTRIENT DEFICIENCY



MONTEREY GARDEN INSECT SPRAY (Spinosad)



A bacterial product produced by fermentation of the naturally occurring product Spinosad. Can be used on ornamentals, lawns, vegetables, fruit trees, etc. to control caterpillars, Colorado Potato Beetles, leafminers, thrips, borers, beetles, armyworms, sod webworms, spider mites, loopers, gypsy moth, codling moth, fire ants, and more.

A Bacillus Thuringiensis replacement. Very safe around predatory beneficial insects. Use 2 oz. per gallon of water.

16 oz. Bottle (2#)	\$26.00
32 oz Bottle (4#)	\$46.50
Gallon (10#)	\$158.00
4+ Gallons	\$137.00

MONTEREY 70% NEEM OIL

An organic insecticide/fungicide containing 70% Neem Oil. Kills all stages of aphids, beetles, scale, mites, whitefly and leafrollers. Prevents and controls black spot, powdery mildew, anthracnose, blights and scab. Use on roses, flowers, fruit, vegetables, herbs and ornamentals. Use 2 tablespoons concentrate per gallon of water. Apply every 7-14 days.

16 oz. Bottle (2#)	\$31.99
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MONTEREY HORT & DORM SPRAY OIL



A superior type paraffinic oil that may be used as a growing season spray or dormant oil spray to suffocate and repel eggs of red spiders, scale insects, aphids, bud moths, leaf roller, codling moth and other insects. Highly recommended for use on fruit and shade trees, shrubs, ornamentals, roses, and vegetables. Use 2-1/2 to 5 tablespoons per gallon of water.

Quart (4#)	\$15.99
Gallon (10#)	\$37.99

COMMERCIAL GROWER SIZE

Use 1/2 to 6 gallons per acre depending on crop and season.

2.5 Gallon (26#)	\$60.99
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Use **Liquid Seaweed** on all fruit trees for increased production, higher sugar content, longer shelf life and less insect and disease problems. Spray every two weeks using one tablespoon seaweed per gallon of water.

TRILOGY



A certifiable fungicide-miticicide-insecticide containing 70% extract of Neem Oil. Use on vegetables, fruits, nuts, melons, ornamentals, and agronomic crops. Prevents and controls fungal diseases including black spot, powdery mildew, downy mildew, anthracnose, rust, leaf spot, botrytis, scab, blight, and alternaria. Also controls whiteflies, mealybugs, aphids, leafhoppers, mites and scales. Apply 1-2% solution every 7-14 days for diseases and every 7-21 days for insects.

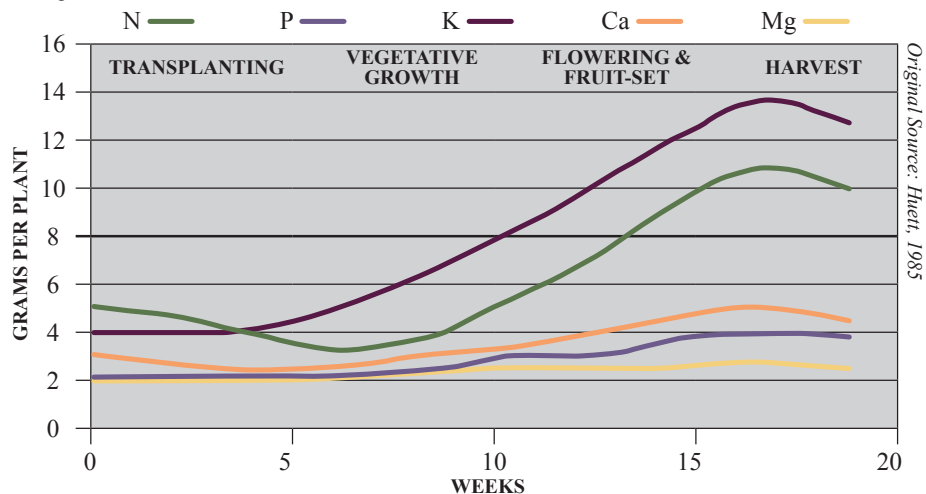
2.5 Gallons (25#)	\$188.00
4+ 2.5 Gallons	\$177.00

We constantly test our potting soil next to our competitors. You may have seen this at a trade show. These are Brandywine tomatoes, all started on the same day and watered together. Cells on the left are The Seed Catapult, the cells in the center and on the right are two of our competitors. Notice the healthier looking plants and dramatic difference in root mass.



## TOMATO PLANT NUTRIENT NEEDS THROUGH THE SEASON

Nitrogen and potassium uptake is initially slow but rapidly increases during the flowering stages. Potassium is peaking during fruit development (Fig. below). Phosphorus (P) and secondary nutrients, Ca and Mg, are required at a relatively constant rate, throughout the life cycle of the tomato plant. Remember that organic fertilizer needs to be in place when soil warms for microbes to mineralize.



### SURROUND WP CROP PROTECTANT



A natural mineral protectant for fruit trees and vegetables derived from Kaolin Clay. Coats the plants with a white powder film that acts as a broad spectrum crop protectant. Can be used in home fruit and vegetable gardens as well as commercial orchards and vegetable farms for control of apple maggots, apple rust mites, codling moths, Japanese beetles, June beetles, leafhoppers, leafrollers, pear psylla, pear rust mites, plum curculio, Colorado potato beetles, cucumber beetles, flea beetles, and more. Must be applied early before pests arrive. Use 1/2 lb. (about 3 cups) per gallon of water or 50 lbs. per acre in 100-200 gallons of water. (1/2 gallon of mixed spray will cover about one mature semi-dwarf tree.) Reapply every 7-21 days or after heavy rains if the white appearance is gone.

25 lb. Bag (28#)	\$48.99
10+ 25 lb. Bags	\$45.00

Ben & Emily Jackle of New Lebanon, OH spray Surround WP Crop Protectant with blower/sprayer before transplanting in lieu of using row cover to prevent cucumber beetles

### PYGANIC CROP PROTECTION



A botanical insecticide containing pyrethrum derived from chrysanthemums. Provides rapid knockdown to over 100 insects including ants, aphids, armyworms, cabbage loopers, cucumber beetles, flies, flea beetles, thrips, leafhoppers, Mexican bean beetles, and whiteflies. Approved for use on over 200 fruits and vegetables, as well as ornamentals. Can be used up to day of harvest and is non-persistent in the environment. Pyganic can also be used as a livestock, poultry, and barn spray to control flies, mosquitoes, lice, and other flying insects. Water pH should be below 6.8 for most effective control.

### PYGANIC GARDEN 1.4%

Contains 1.4% pyrethrins. Use 1-2 oz. per gallon of water or 1-2 pints per acre in sufficient water for thorough coverage.

Quart (3#)	\$60.00
Gallon (11#)	\$180.00

### PYGANIC SPECIALTY 5.0%

Contains 5.0% pyrethrins. Use 1/4 - 1/2 teaspoon per gallon of water or 4.5 - 16 oz. per acre in sufficient water for thorough coverage.

Quart (3#)	\$141.99
Gallon (11#)	\$529.00
3+ Gallons	\$519.00



**PRO TIP:** Mix Pyganic with Nu Film P and spray on cucumber beetles when they first appear and repeat weekly.

FROM OHIO EARTH FOOD



### NEW PRODUCT



### SLUGGO PLUS

Unique blend of iron phosphate, a natural soil element, and spinosad, which is derived from a naturally occurring soil dwelling bacteria, and bait additives compressed into easy-to-use pellets. Environmentally friendly bait that kills slugs and earwigs, sowbugs, snails and more. Scatter Sluggo Plus pellets on the soil around or near plants to be protected or around garden perimeters to reduce migration from moist and shady areas where pests take daytime refuge. 0.5-1 lb / 1000 sq ft, or 0.5-1 tsp / sq yd.

2.5 lb. Jar (5#)	\$29.99
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### NEW PRODUCT



### AZERA PRO

Two powerful active ingredients, a knockdown (1.4% Pyrethrum) and a stomach poison insects must ingest (1.2% Azadirachtin) both from botanical sources. Kills hard-bodied and soft-bodied insects in all stages. Mix 1-2 oz. per gallon of water use 2.3 gal. of spray per 1000 sf when bees aren't present. 32-56 oz./A.

Quart (3#)	\$97.00
Gallon (11#)	\$360.00



So thankful for my wonderful family and all of their help out at the farm

**ENTRUST SC**  
22.5% SPINOSAD



Effective against Colorado Potato Beetles, and Emerald Ash Borer. Now in a liquid concentrate for easier measuring and mixing. A new formulation of Spinosad that can be used alternately with BT to reduce the chances of creating resistant insect strains. Demonstrates good activity against pests like armyworms, thrips, leaf miners, codling moth, cherry fruit fly, and many other pests in a wide range of organically grown crops. Two modes of action - both contact and ingestion - provide quick knockdown and some residual efficacy. 4 hr. REI. 2 yr. shelf-life. Depending on labeled application rate, will cover between 3.2 to 21 acres per quart.

32 oz. Qt.	\$659.00
4+ 32 oz. Qts.	\$649.00

**MILKY SPORE POWDER**



Kills grubs that eat the roots of grass causing bare spots and destruction of the lawn. This natural product is not affected by lawn chemicals. Will not harm other insects, animals, plants, or humans. Can be used in gardens and pastures. Apply 1 teaspoon powder every four feet in checkerboard pattern. One application will remain viable for 10-15 years.

10 oz. Can (2#)	\$31.00
40 oz. Can (4#)	\$89.00

**VENERATE XC BIOINSECTICIDE**



To control aphids, leafhopper, stink bug, thrips, corn borer, bean cutworm SWD and more. For corn, cereal grains, soybeans, cucurbit, leafy, cole and fruiting vegetables 1-4 quarts per acre mixed with 5 or more gallons of water. For stink bugs - tank-mix with a contact insecticide for improved control.

2.5 Gallons (25#)	\$258.00
4+ 2.5 Gallons	\$245.00

**GRANDEVO WDG INSECTICIDE**

A microbial-based insecticide that repels, stops and reduces reproduction of sucking and chewing insects such as Spotted Wing Drosophila, White Flies, Mites and may be used in furrow for soil pests and as seed treatment for corn root worm.



Use CG for hemp label.

6 lb. (9#)	\$164.00
6+ lb. packs	\$154.00
CG 1 lb.	\$47.00



**PRO TIP:** If germinating tomato seeds in trays with our soil, start with just 1.5" of soil in the

bottom of the cell, then fill the rest in after the plant is 3" tall to maximize root depth. Growers have also used The Seed Catapult as a transplant aid by putting a few handfuls in holes before plugs.

FROM OHIO EARTH FOOD

**MONTEREY FRUIT TREE SPRAY PLUS**



An organic combination of Pyrethrin plus Neem. Highly effective on an extensive array of insects including aphids, mealybugs, scale crawlers, spider mites, thrips, whiteflies, cabbageworms, earwigs, flea beetles, grasshoppers, Japanese beetles, squash bugs, and chinch bugs. The contact killing power of Pyrethrin with the lasting insect and disease prevention of neem oil. Water based. Use up to day of harvest.

16 oz. Concentrate (2#)	\$35.99
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"Greenhouse beds are covered with The Seed Catapult and planted directly into to build soil and reduce salt build up." - Great River Organics



USED BY OHIO'S FIRST CERTIFIED KIND MEDICINAL OPERATION!

**THE SEED CATAPULT**



After 2 years of testing on Tomatoes, Peppers, Arugula and other vegetables started indoors we have developed the ultimate blend to get your crops off to the very best start! We took our legendary Plant Pro Potting Soil, and worked with Myco Apply, makers of the best Mycorrhizal Fungi spores, to add a precise dose of this miraculous fungi. By adding Mycorrhizal fungi inoculant to seed starting soil the symbiotic relationship of the fungi and your plant will begin at the moment of germination to maximize nutrient and water uptake and disease prevention. We also added a dose of our fish and crab powder to feed the seedling, the bacteria and the fungi. 1 bag fills 6 x 50 or 128-cell trays or 9 x 200-cell trays. Can be used in soil blocking.

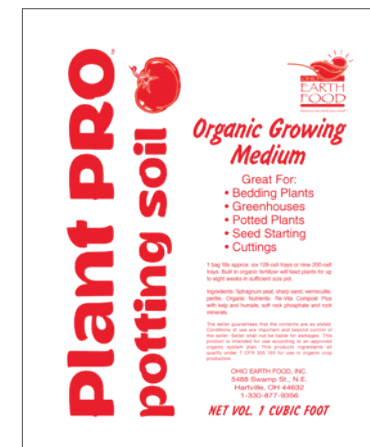
30 qt. (1 cu. ft.) Bag (25#)	\$12.99
60-240 Bags	\$11.29
240+ in pallet loads of 60	\$10.69

**VERMICULITE**



A natural mica mineral. Add to soil to improve aeration and provide moisture retention. Can also be used for seed germination and cutting propagation or mixed with Plant Pro Potting Soil.

20 qt. Bag (11#)	\$16.00
4 cu. ft. Bag	\$46.00



*Our soils have an ultra-low heavy metals content and salt index of under 1*

**PLANT PRO POTTING SOIL**



Our exclusive organic potting mix, widely used by professional growers throughout the Midwest to start seeds. Made from sphagnum peat moss, vermiculite, sharp sand, and perlite enriched with Re-Vita Compost Plus, kelp, humate, rock phosphate and AZOMITE minerals. This time tested mix of nutrients enhances germination rate and steadily feeds starts for up to 8 weeks in small cell trays. Use on all house and bedding plants. Try it against your favorite soil! 1 bag fills 6 x 50 or 128-cell trays or 9 x 200-cell trays. Can be used in soil blocking.

30 qt. (1 cu. ft.) Bag (25#)	\$11.99
60-240 Bags	\$10.29
240+ in pallet loads of 60	\$9.69



*A produce farmer in Highland Co., Ohio was able to start tomatoes a month later, saving considerable heating costs, by using Ohio Earth Food:*

1. Re-Vita to prepare soil
2. Starting seeds in Plant Pro potting soil
3. Feeding with Jumpstart through drip.



**ORGANIC MOLASSES**

Organic Blackstrap Molasses.  
Feed up to 2 lbs. per cow per day.

50 lb. jug (est. 5 gal) 55#	\$48.00
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**PRO TIP:** I was told that feeding kelp meal is the one thing that you can do for your livestock operation that will show results in one month. I have been feeding it for 20 years and it is worth every penny.

FROM JEFF DICKINSON,  
STRATFORD ECOLOGICAL CENTER

**ASCOPHYLLUM NODOSUM KELP MEAL**

As an animal feed supplement, kelp meal is the most economical way to provide a wide variety of amino acids, trace minerals and vitamins in a chelated form. It satisfies the need in animals for trace elements lacking or low in mixed feeds, pastures and other forages. It raises levels of production, improves digestion ability, and promotes healthy fur and coats. Improves the rates of conception and normal healthy births. Also helps increase the utilization of all feed ingredients and improves overall health of animals. Sea-Min is harvested from the cold fresh waters of the North Atlantic and sun-dried to preserve the natural vitamin and mineral content. Use at 1-2% of feed ration or free choice. Can be mixed 50-50 with salt or 1/3 each with salt and diatomaceous earth.



10 lb. Bag (12#)	\$27.00
25 lb. Bag (28#)	\$43.00
50 lb. Bag (53#)	\$76.00
20-39 50 lb. Bags	\$69.50
40+ 50 lb. Bags	\$67.75

**NEW PRODUCT**  
**ORGANIC PELLETED ALFALFA MEAL**

A good source of protein, calories, digestible fiber and trace minerals. Excellent for chickens and backyard livestock including goats, sheep, cattle, alpacas, horses, rabbits and other ruminates.

50 lb. Bag (53#)	\$33.99
20+ 50 lb. Bags	\$31.99



**3-in-1 Free Choice Feed Supplement**

1/3 Kelp Meal  
1/3 Diatomaceous Earth  
1/3 Redmond Salt

**DIATOMACEOUS EARTH**

Ground fossil shells from the remains of single-cell algae called diatoms. Untreated, unheated fresh water variety. Fine drying powder absorbs moisture and dehydrates on contact. Can be used as an **animal feed additive** up to 2% of feed ration. Feed grade. Add up to 2% by weight to stored grain to prevent insect infestation



15 lb. Bag (18#)	\$21.00
50 lb. Bag (54#)	\$31.99
20+ 50 lb. Bags	\$29.00

**REDMOND TRACE MINERAL SALT**

A natural salt containing trace minerals that are essential to livestock growth and development. This pure rock salt (95% sodium chloride) is not kiln dried or processed with chemicals.



50 lb. Bag (53#)	\$13.00
20+ 50 lb. Bags	\$12.50

**PRO TIP:** Augment the missing nutrients in poor quality hay with Kelp Meal 2% of ration.

FROM OHIO EARTH FOOD

**FISH MEAL (10-6-2)**

An excellent source of protein to mix in feed rations for livestock and poultry. Contains 60% crude protein, 6% fat and less than 2% crude fiber. Naturally preserved with Naturox. Consider for organic livestock.



50 lb Bag (53#)	\$91.99
5+ 50 lb. Bags	\$89.00
40+ 50 lb. Bags	\$85.00

**COPPER SULFATE**

Old Bridge Copper Sulfate Pentahydrate 30 mesh crystals. An important dietary supplement in animal feeds.



50 lb. Bag (53#)	\$144.00
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**SCYTHE HERBICIDE**

A non-selective, non-systemic contact herbicide that lets you get rid of unwanted weeds and grass. Made from naturally occurring fatty acids. Fast acting. Use at rate from 3%-10% in water depending on size of foliage. One gallon of spray mixture will cover approximately 400 sq. ft. of area.

2.5 Gallon (25#)	\$250.00
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Our potting soils will start nearly any seed, even hemp, in trays or soil blocks.

**AVENGER WEED KILLER HERBICIDE**



A non-selective, non-systemic, post-emergence herbicide that kills weeds, grasses and broadleaves without adversely affecting the environment. The active ingredient, citrus oil, naturally strips away the waxy plant cuticle, causing it to desiccate. Testing results prove that Avenger is as effective, but faster acting than synthetic herbicides! An economical alternative to hand weeding, flaming, mowing and cultivation. Annual and perennial weeds that germinate from seed can easily be controlled before they establish a robust root system. Established perennial grasses, broadleaves and weeds from rhizomes or root masses can be effectively top burnt, but complete control will require multiple treatments. Cooler season effectiveness allows you to eliminate weeds before they become established. When treating newly emerged weeds, apply Avenger prior to planting crops. This will create a clean seed bed. Seeded crops can be planted within 2 hours after application. Use a 14% dilution for general weed, grass and broadleaf control.

32 oz. Concentrate (7#)	\$29.90
Gallon Concentrate (10#)	\$99.90

**NATURE'S NECTAR PHOSPHORUS SUSPENSION 0-3-0**



Slow and quick release phosphorus from soft rock. Vegetative stage: 4.8 tsp per gal water twice per week. Flowering and Fruiting stage: 9.6 tsp per gal water twice per week. 1.3-2.6 gal/acre per application through drip for hemp.

1 Gal (13#)	\$30.00
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**NATURE'S NECTAR NITROGEN 5-0-0**

From Soy Protein Hydrolysate, all nutrients are instantly available. Vegetative stage: 1.6 tsp per gal water twice per week. Flowering and Fruiting stage: 3.2 tsp per gal water twice per week.

1 Gal (13#)	\$30.00
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**NATURE'S NECTAR POTASSIUM 0-0-5**



From Ascophyllum Nodosum kelp and Potassium Hydroxide. Nutrients are instantly available to your plant. Vegetative stage: 2.4tsp per gal water twice per week. Flowering and Fruiting stage: 4.8 tsp per gal water twice per week.

OMRI 1 Gal (13#)	\$30.00
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**FERTICELL PRO PHOS 0-20-0 LIQUID**



**PHOSPHORUS** Derived from rock phosphate, micronization and algae extract technology work together to make this essential nutrient easy to mineralize in the soil and available to plants. Soil application 1-4 qt./acre.

3.5 Gallons (57#)	\$159.00
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## OHIO

## TURF-STATEWIDE

**Technical Choice LLC**  
Medina, OH  
(330) 321-2523

## AKRON

**Copley Feed**  
1468 S Cleveland  
Massillon Rd.  
Copley, OH 44321  
(330) 666-4741

## ATHENS

**White's Mill**  
2 White's Mill Dr.  
Athens, OH 45701  
(740) 592-1521

**Heartbeat Homestead**  
33015 Sidehill Rd.  
Rutland, OH 45775  
(740) 742-0544

## CINCINNATI

**Growing Trade Pet and Plant**  
3840 Spring Grove Ave.  
Cincinnati, OH 45223  
(513) 541-1321

**Marvin's Organic Gardens**  
816 N. Nixon Camp  
Oregonia, OH 45054  
(513) 932-3319  
info@marvinsorganicgardens.com

## CLEVELAND

**Canterbury Creek Gardens**  
26273 Detroit Rd.  
Westlake, OH 44145  
(440) 899-2740

## COLUMBUS

**City Folks Farm Shop**  
4760 N High St.  
Columbus, OH 43214  
(614) 946-5553

**Beechwood Farm Market**  
4662 Indianola Ave.  
Columbus, OH 43214  
(614) 557-8902

## DAYTON

**Deal's Landscape Service**  
3454 Dayton Xenia Rd.  
Beavercreek, OH 45432  
(937) 426-2118

## KENT

**Tree City Feed**  
107 Lake St.  
Kent, OH 44240  
(330) 678-3377

## NORTH EAST

**Caliber Feed**  
8550 State Rt. 534  
Windsor, OH 44099  
(440) 272-1900

## NORTH CENTRAL

**Maysville Elevator**  
10583 Harrison Rd.  
Apple Creek OH 44606  
(330) 695-4413

**Spencer Feed**  
227 N Main St.  
Spencer, OH 44275  
(330) 648-2111

## WEST

**Maria Stein Grain Co.**  
8010 State Rt 119  
Maria Stein, OH 45860  
(419) 925-4414

## CONNECTICUT

**Country Organics Inc**  
431 Pepper Street  
Monroe, CT 06468  
203 880-5888

## INDIANA

**FD Miller Feed and Supply**  
9690 W 200S  
Shipshewana, IN 46565  
(260) 768-4837

## Joe Yoder

2956 E. Magnolia Rd.  
English, IN 47118  
(812) 739-4203

**Park County Produce**  
5191 E. St. Rd. 236  
Rockville, IN 47872  
(765) 597-2608

**Wanamaker Feed**  
4410 Northeastern Ave.  
Indianapolis, IN 46239  
(317) 862-4032

**Melvin Schetler**  
555 W. 350 S.  
Bern, IN 46711  
(260) 849-1272

## IOWA

**Gable Avenue Feed & Supply**  
Wilbur Miller  
5560 Gable Ave. SW  
Kalona, IA 52247  
(319) 656-2876

## KENTUCKY

## NORTHERN

**Pecks Farm Supply**  
627 Main St.  
Sharpsburg, KY 40374  
(606) 247-2421

**John Smith**  
422 E. Cross Main St.  
New Castle, KY 40050  
(502) 643-1407  
jesmith49@aol.com

## CENTRAL

**Martins Produce Supply**  
2518 S. Fork Creek Rd.  
Liberty, KY 42539

## SOUTHERN

**Deerfield Supplies**  
2825 Strington Rd.  
Elkton, KY 42220  
(270) 265-2425

## MAINE

**Moses Hostetler**  
803 Canaan Rd.  
Pittsfield, ME 04967  
(570) 217-0885  
*Please place orders  
by end of February*

## MICHIGAN

**Eli L. Miller**  
9511 S Shunk Rd.  
Dafter, MI 49724

## MINNESOTA

**Daniel Lambright**  
13093 330th St.  
Eagle Bend, MN 56446

**Paul Bastien**  
18390 Goodwin Ave.  
Hastings, MN 55033  
(651) 319-1547

## MISSOURI

**Edward Brubaker**  
10820 E. Arrowhead Rd.  
Rich Hill, MO 64779

**James B. Stauffer**  
Sunny Crest Farm  
28732 State Hwy M  
Gallatin, MO 64640

## NEW YORK

**Mara Seed Inc.**  
4451 Rt 221  
Marathon, NY 13803  
(607) 849-7871

## PENNSYLVANIA

## CENTRAL

**Abe Yoder Feed**  
2499 Rock Dump Rd.  
Reynoldsville, PA 15851  
(814) 427-2719 ext. 1

**Greenlane Wholesale**  
125 Stage Rd.  
Milroy, PA 17063  
(717) 667-9608

## NORTH CENTRAL

**Allen Shissler**  
840 Scott Rd.  
Sabinsville, PA 16943  
(814) 628-2126

## NORTH WEST

**Agway (Hermitage)**  
4065 E State St.  
Hermitage, PA 16148  
(724) 347-3031

**McCartney Feed & Hardware**  
1683 Airport Rd.  
Ferdonia, PA 16124  
(724) 475-3215

**Wolfcreek Farm**  
3175 Scrubgrass Rd.  
Grove City, PA 16127  
(814) 786-7675

## SOUTH CENTRAL

**Daniel Beiler**  
15570 Amberson Rd.  
Spring Run, PA 17262

**John Stauffer**  
315 Round Top Rd.  
Indiana, PA 15701

## WEST CENTRAL

**Frankferd Farms**  
717 Saxonburg Blvd.  
Saxonburg, PA 16056  
(724) 352-9500

## PITTSBURGH

**Agway (Beaver)**  
1440 Sharon Rd.  
Beaver, PA 15009  
(724) 775-0535

**Agway (Butler)**  
500 Evans City Rd.  
Butler, PA 16001  
(724) 482-2194

**Hahn Nursery**  
5443 Babcock Blvd.  
Pittsburgh, PA 15237  
(412) 635-7475

## TENNESSEE

**A Greener Way**  
4088 Murfreesboro Pike  
Antioch, TN 37013  
(615) 641-2115

**Joseph L. Gingerich**  
**Hidden Acres**  
242 Paige Rd.  
Ethridge, TN 38456

**Mast, Steven E**  
257 Hidden Valley Rd  
Centerville, TN 37033

**Moses J. Yoder**  
2720 Jacksboro Rd.  
Morrison, TN 37357

## WEST VIRGINIA

**Samuel Kinsinger**  
1393 Gibbstown Rd.  
Letart, WV 25253  
(304) 882-8245

## WISCONSIN

**Andrew S. Stotzfus**  
S-980 Fiskens Valley Rd.  
Mondovi, WI 54755





### TED STUTZ

I purchased Ohio Earth Food in 2012 after growing up running a lawn care business, attending Butler University then spending time in the military. I have enjoyed getting to know our customers and the noble organic community. I spend as much time as possible visiting farmer's markets and making deliveries in order to learn what products you need to be successful and how we can best serve you. I recently moved the Ohio Earth Food test farm to Licking Co. Ohio.



### JORDAN RINGER

I manage the Ohio location in Hartville just east of Akron, where I grew up working for my Grandfather Larry Ringer, the founder of Ohio Earth Food. My family operates a certified organic grain and hay farm in Hartville, some of which surrounds our warehouse. If you've been to our store you may know that I am passionate about anything that drives in the dirt from quads to RC cars. Stop by sometime, I can load fertilizer into any vehicle—heck, I once got a ton into a Subaru. I can also recommend the right product for almost any situation!



### AARON AND VIRGIL SOMMERS

I manage the new branch in Hillsboro, Wisconsin! My wife and I both enjoy raising Organic vegetables, Broiler Chickens, Turkeys, Wattle Pigs, Rabbits and beef and are certified by NICS. This year we grew 2 acres Zucchini, Yellow Squash, Tomatoes and a greenhouse full of Spinach! We like to raise, and help customers raise food that we know is healthy. We are really impressed with Ohio Earth Food's fertilizers and soil amendments. Our sweet corn had huge ears this year. Stop by the store or give me a call, I would be happy to test your soil for you and get you everything you need to get growing!



### LARRY AND CYNTHIA RINGER

Founders of Ohio Earth Food in 1972. Larry passed away in December of 2023. Larry was a visionary and a passionate believer in sustainable agriculture and a devotion to customers. Larry developed many products like ReVita and Plant Pro Potting Soil that play an important part on many farms all over the country. He will be deeply missed.

We are a company that was founded in 1972. Over the years we have developed a line of all natural products which are of the finest quality and proven in performance for garden, lawn and commercial use. Our goal is to aid growers in producing good, healthy food, as well as improving the quality of the soil and the environment for future generations.

We do everything possible to keep our prices reasonable, which is why we have a very simple catalog sent once per year. Prices are subject to change without notice. Once you have ordered from us you will receive our new catalog each January. Be assured your personal information is confidential to us. We do not sell, rent or share our mailing list.

Please feel free to contact us if you need further information about any of our products, if you would like a large quantity truckload quote or if you are interested in becoming a dealer or distributor.

**Certified Organic Growers** – Most of our products meet the National Organic Program standards. Please call us for assistance with questions you have about specific products. Then contact your certification agency to confirm their acceptability.

We greatly appreciate your interest in Ohio Earth Food and look forward to serving you.

— **may you have** —  
**A BOUNTIFUL**  
**2024!** —

Small orders are shipped via UPS. Orders over 400 lbs. can usually be shipped more economically by freight or delivered with our truck. Please note that someone must be there to unload freight orders and finding a delivery location with a dock or forklift usually results in lower freight cost. We will gladly quote freight or delivery rate or help figure your UPS charges, please call the branch nearest you.

**Hartville, OH – 330-877-9356 – OR – Hillsboro, WI – 608-489-3600**

**Shipping weights** are in parentheses behind product (XX#). Shipping weight must be added separately.

Use the charts on **Pages 30-33 for UPS shipments**. Use the **ZONE CHART** of whichever Ohio Earth Food location is closer to you, Ohio or Wisconsin. Find the first 3 numbers of your **ZIP CODE** in the left columns under “Dest. ZIP”. To the right is your zone. Then follow down the corresponding zone column on the **RATE CHART** to the correct package weight for shipping charges. Then add these onto your order form and mail it to the branch closer to you.

## OHIO ZONE CHART FIRST 3 OF ZIP CODE

ZONE	ZONE	ZONE	ZONE
004-005 ... 004	341 ... 005	508-516 ... 005	798-799 ... 007
010-042 ... 004	342-349 ... 005	520-539 ... 004	800-812 ... 006
043-049 ... 005	350-353 ... 004	540 ... 005	813-815 ... 007
050-089 ... 004	354 ... 005	541-547 ... 004	816-820 ... 006
100-129 ... 004	355-359 ... 004	548 ... 005	821 ... 007
130-132 ... 003	360-361 ... 005	549 ... 004	822-828 ... 006
133-136 ... 004	362 ... 004	550-558 ... 005	829-834 ... 007
137-146 ... 003	363-367 ... 005	559 ... 004	835 ... 008
147 ... 002	368 ... 004	560-576 ... 005	836-837 ... 007
148-149 ... 003	369 ... 005	577 ... 006	838 ... 008
150-167 ... 002	370-375 ... 004	580-584 ... 005	840-853 ... 007
168-179 ... 003	376 ... 003	585-588 ... 006	854 ... 008
180-181 ... 004	377-386 ... 004	590-591 ... 007	855-863 ... 007
182 ... 003	387 ... 005	592-593 ... 006	864 ... 008
183 ... 004	388 ... 004	594-599 ... 007	865-874 ... 007
184-188 ... 003	389-397 ... 005	600-639 ... 004	875-877 ... 006
189-194 ... 004	398 ... 005	640-649 ... 005	878-880 ... 007
195-214 ... 003	399 ... 004	650-652 ... 004	881-882 ... 006
215 ... 002	400-418 ... 003	653 ... 005	883 ... 007
216-217 ... 003	420-424 ... 004	654-655 ... 004	884 ... 006
218 ... 004	425-427 ... 003	656-676 ... 005	885 ... 007
219-232 ... 003	430-449 ... 002	677-679 ... 006	889-892 ... 008
233-238 ... 004	450-454 ... 003	680-689 ... 005	893 ... 007
239-259 ... 003	455-458 ... 002	690-691 ... 006	894-897 ... 008
260-267 ... 002	459-462 ... 003	692 ... 005	898 ... 007
268 ... 003	463-464 ... 004	693 ... 006	900-961 ... 008
270 ... 004	465-474 ... 003	700-722 ... 005	970-978 ... 008
271 ... 003	475-478 ... 004	723-724 ... 004	979 ... 007
272-314 ... 004	479 ... 003	725-732 ... 005	980-986 ... 008
315-317 ... 005	480-483 ... 002	733 ... 006	988-994 ... 008
318-319 ... 004	484-496 ... 003	734-737 ... 005	
320-329 ... 005	497-499 ... 004	738-739 ... 006	
330-332 ... 006	500-505 ... 005	740-759 ... 005	
333-339 ... 005	506-507 ... 004	760-797 ... 006	

## WISCONSIN ZONE CHART FIRST 3 OF ZIP CODE

ZONE	ZONE	ZONE	ZONE
004-005 ... 005	387-399 ... 005	634-635 ... 003	885-893 ... 006
010-018 ... 005	400-414 ... 004	636-645 ... 004	894-897 ... 007
019 ... 006	415-416 ... 005	646 ... 003	898 ... 006
020-024 ... 005	417-462 ... 004	647-677 ... 004	900-961 ... 007
025-029 ... 006	463-466 ... 003	678-679 ... 005	970-977 ... 007
030-037 ... 005	467-489 ... 004	680-682 ... 003	978-979 ... 006
038-049 ... 006	490-491 ... 003	683-693 ... 004	980-986 ... 007
050-089 ... 005	492 ... 004	700-722 ... 005	988-989 ... 007
100-142 ... 005	493-496 ... 003	723-729 ... 004	990-994 ... 006
143 ... 004	497 ... 004	730-736 ... 005	
144-146 ... 005	498-503 ... 003	737 ... 004	
147 ... 004	504-507 ... 002	738-739 ... 005	
148-149 ... 005	508-516 ... 003	740-744 ... 004	
150-153 ... 004	520-524 ... 002	745 ... 005	
154-160 ... 005	525-527 ... 003	746 ... 004	
161 ... 004	528 ... 002	747-748 ... 005	
162 ... 005	530-534 ... 003	749 ... 004	
163-165 ... 004	535-555 ... 002	750-778 ... 005	
166-254 ... 005	556-558 ... 003	779-785 ... 006	
255-257 ... 004	559-560 ... 002	786-787 ... 005	
258-259 ... 005	561-566 ... 003	788 ... 006	
260-261 ... 004	567 ... 004	789-797 ... 005	
262-319 ... 005	570-572 ... 003	798-799 ... 006	
320-322 ... 006	573-587 ... 004	800-831 ... 005	
323-325 ... 005	588-595 ... 005	832-853 ... 006	
326-339 ... 006	596-599 ... 006	854 ... 007	
341 ... 006	600-609 ... 003	855-865 ... 006	
342-349 ... 006	610-611 ... 002	870-872 ... 005	
350-369 ... 005	612-619 ... 003	873 ... 006	
370-372 ... 004	620-622 ... 004	874-877 ... 005	
373-374 ... 005	623 ... 003	878-880 ... 006	
375 ... 004	624 ... 004	881 ... 005	
376-379 ... 005	625-627 ... 003	882-883 ... 006	
380-386 ... 004	628-633 ... 004	884 ... 005	



**RATE CHART**

Weight	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
1-9 lbs.	<i>See 10 lbs. below</i>						
10	\$12.14	\$12.54	\$14.06	\$15.02	\$16.09	\$18.09	\$20.04
11	\$12.55	\$13.05	\$14.23	\$15.27	\$16.57	\$19.23	\$21.23
12	\$12.90	\$13.44	\$14.48	\$15.51	\$17.31	\$20.33	\$22.61
13	\$13.25	\$13.80	\$14.66	\$15.87	\$18.04	\$21.52	\$24.01
14	\$13.50	\$14.18	\$14.94	\$16.23	\$19.03	\$22.61	\$25.36
15	\$13.75	\$14.63	\$15.18	\$16.62	\$20.01	\$23.77	\$26.77
16	\$13.94	\$14.85	\$15.27	\$16.91	\$20.77	\$24.75	\$27.99
17	\$14.12	\$15.32	\$15.77	\$17.61	\$21.98	\$26.21	\$29.65
18	\$14.28	\$15.59	\$16.23	\$18.53	\$22.98	\$27.36	\$31.17
19	\$14.48	\$16.13	\$16.85	\$19.34	\$23.99	\$28.53	\$32.66
20	\$14.75	\$16.65	\$17.43	\$20.19	\$25.05	\$29.70	\$34.16
21	\$15.01	\$17.16	\$17.96	\$21.05	\$26.07	\$30.88	\$35.54
22	\$15.38	\$17.65	\$18.61	\$21.82	\$27.13	\$32.09	\$37.09
23	\$15.72	\$18.19	\$19.21	\$22.60	\$28.15	\$33.26	\$38.59
24	\$16.03	\$18.66	\$19.81	\$23.35	\$29.23	\$34.42	\$40.08
25	\$16.47	\$19.18	\$20.36	\$24.01	\$30.25	\$35.59	\$41.60
26	\$16.86	\$19.58	\$20.92	\$24.78	\$31.37	\$36.70	\$43.01
27	\$17.24	\$20.03	\$21.41	\$25.53	\$32.41	\$37.89	\$44.49
28	\$17.56	\$20.52	\$22.08	\$26.30	\$33.44	\$39.03	\$46.05
29	\$17.92	\$20.91	\$22.72	\$26.92	\$34.33	\$39.92	\$47.31
30	\$18.35	\$21.44	\$23.40	\$27.70	\$35.40	\$41.06	\$48.84
31	\$18.64	\$21.77	\$23.92	\$28.47	\$36.40	\$42.18	\$50.23
32	\$18.79	\$22.24	\$24.58	\$29.28	\$37.44	\$43.34	\$51.75
33	\$19.15	\$22.75	\$25.20	\$30.05	\$38.42	\$44.51	\$53.20
34	\$19.32	\$23.25	\$25.75	\$30.82	\$39.48	\$45.67	\$54.68

**RATE CHART**

Weight	Zone 2	Zone 3	Zone 4	Zone 5	Zone 6	Zone 7	Zone 8
35	\$19.68	\$23.81	\$26.35	\$31.57	\$40.48	\$46.84	\$56.11
36	\$20.30	\$24.04	\$26.82	\$32.36	\$41.49	\$47.98	\$57.34
37	\$20.61	\$24.58	\$27.35	\$33.05	\$42.41	\$49.12	\$58.44
38	\$20.91	\$24.96	\$27.96	\$33.86	\$43.36	\$50.30	\$59.54
39	\$21.11	\$25.45	\$28.59	\$34.57	\$44.67	\$51.88	\$60.64
40	\$21.39	\$26.02	\$29.22	\$35.28	\$45.54	\$52.93	\$61.62
41	\$21.74	\$26.39	\$29.74	\$35.96	\$46.35	\$53.94	\$62.47
42	\$22.02	\$26.70	\$30.29	\$36.64	\$47.09	\$54.94	\$63.45
43	\$22.31	\$27.17	\$30.92	\$37.40	\$47.98	\$56.10	\$64.55
44	\$22.54	\$27.63	\$31.43	\$38.07	\$48.84	\$57.27	\$65.24
45	\$22.77	\$28.07	\$32.03	\$38.84	\$49.68	\$58.42	\$66.33
46	\$22.97	\$28.50	\$32.42	\$39.54	\$50.46	\$59.58	\$67.41
47	\$23.21	\$28.70	\$32.94	\$40.20	\$51.16	\$60.73	\$68.49
48	\$23.40	\$29.03	\$33.37	\$40.88	\$51.92	\$61.90	\$69.60
49	\$23.60	\$29.35	\$33.81	\$41.61	\$52.59	\$63.07	\$70.68
50	\$39.74	\$45.61	\$50.20	\$57.73	\$68.87	\$79.71	\$87.75
51	\$39.93	\$45.83	\$50.47	\$57.98	\$69.33	\$80.55	\$88.15
52	\$40.12	\$46.00	\$50.70	\$58.53	\$69.87	\$81.44	\$89.22
53	\$40.32	\$46.30	\$50.86	\$59.07	\$70.38	\$82.13	\$90.30
54	\$40.53	\$46.54	\$51.28	\$59.65	\$70.95	\$82.60	\$91.23
55	\$40.71	\$46.74	\$51.57	\$60.31	\$71.37	\$82.84	\$92.12
56	\$40.89	\$46.96	\$51.90	\$60.92	\$71.68	\$82.94	\$93.05
57	\$41.13	\$47.23	\$52.21	\$61.57	\$72.28	\$83.45	\$93.88
58	\$41.37	\$47.50	\$52.56	\$62.05	\$72.91	\$83.85	\$94.51
59	\$41.61	\$47.81	\$52.94	\$62.48	\$73.44	\$84.23	\$95.09
60	\$41.86	\$48.13	\$53.33	\$62.83	\$73.93	\$84.57	\$95.58





## INSTRUCTIONS REGARDING UNIFORM SALES & USE TAX EXEMPTION CERTIFICATE

### To Seller's Customers:

In order to comply with most state and local sales tax law requirements, the Seller must have in its files a properly executed exemption certificate from all of its customers (Buyers) who claim a sales/use tax exemption. If the Seller does not have this certificate, it is obliged to collect the tax for the state in which the property or service is delivered.

If the Buyer is entitled to a sales tax exemption, the Buyer should complete the certificate and send it to the Seller at its earliest convenience. If the Buyer purchases tax free for a reason for which this form does not provide, the Buyer should send the Seller its special certificate or statement.

### Caution to Seller:

In order for the certificate to be accepted in good faith by the Seller, Seller must exercise care that the property or service being sold is of a type normally sold wholesale, resold, leased, rented, or incorporated as an ingredient or component of a product manufactured by Buyer and then resold in the usual course of its business. A Seller failing to exercise care could be held liable for the sales tax due in some states or cities. Misuse of this certificate by Seller, lessee, or the representative thereof may be punishable by fine, imprisonment or loss of right to issue a certificate in some states or cities.

### Notes:

1. Alabama: Each retailer shall be responsible for determining the validity of a purchaser's claim for exemption.
2. Arizona: This certificate may be used only when making purchases of tangible personal property for resale in the ordinary course of business, and not for any other statutory deduction or exemption. It is valid as a resale certificate only if it contains the purchaser's name, address, signature, and Arizona transaction privilege tax (or other state sales tax) license number, as required by Arizona Revised Statutes § 42-5022, *Burden of proving sales not at retail*.
3. California: a) This certificate is not valid as an exemption certificate. Its use is limited to use as a resale certificate subject to the provisions of Title 18, California Code of Regulations, Section 1668 (Sales and Use Tax Regulation 1668, Resale Certificate).  
b) By use of this certificate, the purchaser certifies that the property is purchased for resale in the regular course of business in the form of tangible personal property, which includes property incorporated as an ingredient or component of an item manufactured for resale in the regular course of business.  
c) When the applicable tax would be sales tax, it is the Seller who owes that tax unless the Seller takes a timely and valid resale certificate in good faith.  
d) A valid resale certificate is effective until the issuer revokes the certificate.
4. Colorado, Hawaii, Illinois, and New Mexico: these states do not permit the use of this certificate to claim a resale exemption for the purchase of a taxable service for resale.
5. Connecticut: This certificate is not valid as an exemption certificate. Its use is limited to use as a resale certificate subject to Conn. Gen. State §§12-410(5) and 12-411(14) and regulations and administrative pronouncements pertaining to resale certificates.
6. Florida: Allows the Multistate Tax Commission's Uniform Sales and Use Tax Exemption/Resale Certificate – Multijurisdictional for tax-exempt purchases for resale; however, the selling dealer must also obtain a resale authorization number from the Florida Department of Revenue at [floridarevenue.com/taxes/certificates](http://floridarevenue.com/taxes/certificates), or by calling 877-357-3725, and entering the purchaser's Florida *Annual Resale Certificate* number.
7. Georgia: The purchaser's state-of-registration number will be accepted in lieu of Georgia's registration number when the purchaser is located outside Georgia, does not have nexus with Georgia, and the tangible personal property is delivered by drop shipment to the purchaser's customer located in Georgia.

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## INSTRUCTIONS CONTINUED

8. Hawaii: allows this certificate to be used by the seller to claim a lower general excise tax rate or no general excise tax, rather than the buyer claiming an exemption. The no tax situation occurs when the purchaser of imported goods certifies to the seller, who originally imported the goods into Hawaii, that the purchaser will resell the imported goods at wholesale. If the lower rate or no-tax does not in fact apply to the sale, the purchaser is liable to pay the seller the additional tax imposed. See Hawaii Dept. of Taxation Tax Information Release No. 93-5, November 10, 1993, and Tax Information Release No. 98-8, October 30, 1998.
9. Illinois: Use of this certificate in Illinois is subject to the provisions of 86 Ill. Adm. Code Ch.I, Sec. 130.1405. Illinois does not have an exemption for sales of property for subsequent lease or rental, nor does the use of this certificate for claiming resale purchases of services have any application in Illinois.

The registration number to be supplied next to Illinois on page 1 of this certificate must be the Illinois registration or resale number; no other state's registration number is acceptable.

"Good faith" is not the standard of care to be exercised by a retailer in Illinois. A retailer in Illinois is not required to determine whether the purchaser actually intends to resell the item. Instead, a retailer must confirm that the purchaser has a valid registration or resale number at the time of purchase. If a purchaser fails to provide a certificate of resale at the time of sale in Illinois, the seller must charge the purchaser tax.

While there is no statutory requirement that blanket certificates of resale be renewed at certain intervals, blanket certificates should be updated periodically, and no less frequently than every three years.

10. Kentucky: a) Kentucky does not permit the use of this certificate to claim resale exclusion for the purchase of a taxable service.  
b) This certificate is not valid as an exemption certificate. Its use is limited to use as a resale certificate subject to the provisions of Kentucky Revised Statute 139.270 (Good Faith).  
c) The use of this certificate by the purchaser constitutes the issuance of a blanket certificate in accordance with Kentucky Administrative Regulation 103 KAR 31:111.
11. Maine: This state does not have an exemption for sales of property for subsequent lease or rental.
12. Maryland: This certificate is not valid as an exemption certificate. However, vendors may accept resale certificates that bear the exemption number issued to a religious organization. Exemption certifications issued to religious organizations consist of 8 digits, the first two of which are always "29". Maryland registration, exemption, and direct pay numbers may be verified on the website of the Comptroller of the Treasury at [www.marylandtaxes.com](http://www.marylandtaxes.com).
13. Michigan: This certificate is effective for a period of four years unless a lesser period is mutually agreed to and stated on this certificate. It covers all exempt transfers when accepted by the seller in "good faith" as defined by Michigan statute.
14. Minnesota: a) Minnesota does not allow a resale certificate for purchases of taxable services for resale in most situations.  
b) Minnesota allows an exemption for items used only once during production and not used again.
15. Missouri: a) Purchasers who improperly purchase property or services sales-tax free using this certificate may be required to pay the tax, interest, additions to tax, or penalty.  
b) Even if property is delivered outside Missouri, facts and circumstances may subject it to Missouri tax, contrary to the second sentence of the first paragraph of the above instructions.
16. Nebraska: A blanket certificate is valid for 3 years from the date of issuance.
17. New Mexico: For transactions occurring on or after July 1, 1998, New Mexico will accept this certificate in lieu of a New Mexico nontaxable transaction certificate and as evidence of the deductibility of a sale of tangible personal property provided:  
a) this certificate was not issued by the State of New Mexico;  
b) the buyer is not required to be registered in New Mexico; and  
c) the buyer is purchasing tangible personal property for resale or incorporation as an ingredient or component of a manufactured product.
18. North Carolina: This certificate is not valid as an exemption certificate if signed by a person such as a contractor who intends to use the property. Its use is subject to G.S. 105-164.28 and any administrative rules or directives pertaining to resale certificates.

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INSTRUCTIONS CONTINUED

19. Ohio: a) The buyer must specify which one of the reasons for exemption on the certificate applies. This may be done by circling or underlining the appropriate reason or writing it on the form above the state registration section. Failure to specify the exemption reason will, on audit, result in disallowance of the certificate.
- b) In order to be valid, the buyer must sign and deliver the certificate to the seller before or during the period for filing the return.
20. Oklahoma: Oklahoma would allow this certificate in lieu of a copy of the purchaser's sales tax permit as one of the elements of "properly completed documents" which is one of the three requirements which must be met prior to the vendor being relieved of liability. The other two requirements are that the vendor must have the certificate in his possession at the time the sale is made and must accept the documentation in good faith. The specific documentation required under OAC 710-.65-7-6 is:
- a) Sales tax permit information may consist of:  
 (i) A copy of the purchaser's sales tax permit; or  
 (ii) In lieu of a copy of the permit, obtain the following:  
 \* Sales tax permit number; and  
 \* The name and address of the purchaser;
- b) A statement that the purchaser is engaged in the business of reselling the articles purchased;  
 c) A statement that the articles purchased is purchased for resale;  
 d) The signature of the purchaser or a person authorized to legally bind the purchaser; and  
 e) Certification on the face of the invoice, bill, or sales slip, or on separate letter, that said purchaser is engaged in reselling the articles purchased.
- Absent strict compliance with these requirements, Oklahoma holds a seller liable for sales tax due on sales where the claimed exemption is found to be invalid, for whatever reason, unless the Tax Commission determines that purchaser should be pursued for collection of the tax resulting from improper presentation of a certificate.
21. Pennsylvania: This certificate is not valid as an exemption certificate. It is valid as a resale certificate only if it contains the purchaser's Pennsylvania Sales and Use Tax eight-digit license number, subject to the provisions of 61 PA Code §32.3.
22. Rhode Island: Rhode Island allows this certificate to be used to claim a resale exemption only when the item will be resold in the same form. It does not permit this certificate to be used to claim any other type of exemption.
23. South Dakota: Services which are purchased by a service provider and delivered to a current customer in conjunction with the services contracted to be provided to the customer are claimed to be for resale. Receipts from the sale of a service for resale by the purchaser are not subject to sales tax if the purchaser furnishes a resale certificate which the seller accepts in good faith. In order for the transaction to be a sale for resale, the following conditions must be present:
- (a) The service is purchased for or on behalf of a current customer;  
 (b) The purchaser of the service does not use the service in any manner; and  
 (c) The service is delivered or resold to the customer without any alteration or change.
24. Texas: Items purchased for resale must be for resale within the geographical limits of the United States, its territories, and possessions.
25. Washington: a) Blanket resale certificates must be renewed at intervals not to exceed four years;  
 b) This certificate may be used to document exempt sales of "chemicals to be used in processing an article to be produced for sale."  
 c) Buyer acknowledges that the misuse of the tax due, in addition to the tax, interest, and any other penalties imposed by law.
26. Wisconsin: Wisconsin allows this certificate to be used to claim a resale exemption only. It does not permit this certificate to be used to claim any other type of exemption.

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