



# JOSEPHINE PORTER INSTITUTE

*For Applied Biodynamics*

2019-2020

BIODYNAMIC GUIDE  
AND CATALOG





# VISITING

## *Hours:*

Monday through Friday

8:30am to 12:00pm

12:30pm to 5:00pm EST

.....  
652 Thompson Road SE

Floyd, VA 24091

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# ABOUT US

## Highlights of Our Beginning

The Josephine Porter Institute for Applied Biodynamics (JPI) is a non-profit (501(c)3) organization dedicated to the memory of Josephine Porter. With single-minded determination, Josephine Porter carried on the work of making biodynamic agricultural preparations in the United States for nearly 30 years. Many farmers and future farmers came to her Cherry Valley, Pennsylvania farm to learn about biodynamic agriculture and preparation making. Hugh Courtney apprenticed with “Josie” each spring and fall season for over seven years.



*From left to right: Adam Fisher- Farm Manager; Lisa Thompson- Office Manager; Alexandra Epperly- Administrative Director; Larry Mabe- Head Preparation Maker and Pfeiffer Technician*

When Josephine died in 1984, Hugh Courtney decided to carry on her work by creating JPI. In 1985, the Institute was established in Woolwine, Virginia. Since its inception, JPI has been dedicated to making biodynamic preparations of the highest quality, and conducting biodynamic agricultural research and education. JPI’s efforts are concentrated in the areas of biodynamic agriculture, horticulture and forestry.

As taught by Josephine Porter, the making of quality biodynamic (BD) preparations can only be accomplished by emphasizing the spiritual, as well as the practical, aspects of their production. Those who are new to biodynamics require a source of quality BD preparations if they are to do their own research and educate themselves about biodynamic agriculture.

JPI’s mission is to serve as a reliable source for biodynamic preparations for the beginning or seasoned practitioner; as an education center for all biodynamic practitioners as they begin to make their own preparations; and as a research venue which focuses specifically on the BD preparations.

## Key Dates in JPI History

- 1985 • Founded in Woolwine, VA (on the Courtney Farm)
- 1994 • Received w/ 501 (c)(3) Tax Exempt Status
- 2013 • Moved from Woolwine to Floyd, VA
- 2016 • Purchased 25-Acre Farm to provide a permanent home base for Biodynamic Preparations in North America
- 2018 • Office relocated to the JPI Farm

# PRODUCTS

Orders can be made online at [www.shop.jpibiodynamics.org](http://www.shop.jpibiodynamics.org)  
or by phone at (540) 745-7030.  
All prices are per unit . Each unit treats one acre.  
Prices do not include shipping and are subject to change.

## Pfeiffer™ Products

Among our most popular selling items, Pfeiffer™ products were originated in the 1940's by Dr. Ehrenfried Pfeiffer with the purpose of helping to make biodynamics more accessible to home gardeners, conventional farmers, and composters. JPI is the exclusive owner of these proprietary formulas.

### Pfeiffer™ BD Compost Starter:

One Unit: \$12.00 (treats up to 1.5 tons or approximately an 8' x 4' x 4' pile)

Five Units: \$58.75 (treats up to 7.5 tons)

Ten Units: \$115.00 (treats up to 15 tons)

Contains all of the compost preparations (BD #502-507), Horn Manure BD (#500) plus a concentrated mixture of cultivated strains of beneficial soil bacteria, enzymes, fungi, and plant growth promoting factors which increase the proliferation of microorganisms resulting in more rapid decomposition of materials, stabilization of nitrogen, and transformation to colloidal humus.



### Pfeiffer™ Field and Garden Spray:

One Unit: \$24.00 (for up to 1 acre)

Five Units: \$117.00 (for 5 acres)

Ten Units: \$230.00 (for 10 acres)

Contains all of the above in the Compost Starter plus additional amount of BD #500. Use when planting or transplanting to stimulate germination and root growth and when turning in cover crops to increase soil microorganisms that aid in decomposition and transformation to stable humus. Also can be used as a foliar spray or seed soak. One unit may be divided to treat smaller areas. It is an excellent treatment for gardens, pasture, and hayfields of all sizes.



# Biodynamic Field Sprays

Application information can be found on pages 6-10. Stirring times may vary. Spray using the whisk and bucket method, or using a backpack sprayer for small applications.

## BD #500 Horn Manure:

One Unit: \$8.00

Stimulates seed germination, root growth and humus formation. Use when planting, transplanting, or turning in cover crops. Stir 1 hour.

## BD #500X Pre-Potentized Horn Manure:

One Unit: \$9.00

Use same as BD #500. Stir 20 minutes.

## "Prepared" 500- Alex Podolinsky Method:

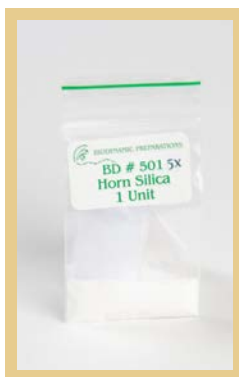
One Unit: \$9.00

Includes BD #502-507. Same as BD #500 but with added influences of the BD Compost Preps. Stir 1 hour.

## BD #501 Horn Silica:

One Unit: \$3.00 Use only after BD #500 has been used.

Stimulates photosynthesis and the ripening process, regulates leaf growth, enhances flavor and storage quality. Stir 1 hour.



## BD #501(5X) Horn Silica Pre-Potentized:

One Unit: \$4.00

Use as BD #501. Stir 20 minutes.

## BD #501(F) Horn Silica Feldspar-Based:

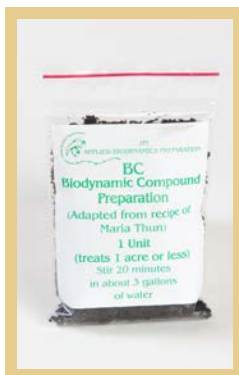
One Unit: : \$3.00

Use as BD #501 (A feldspar-based form suggested for sandy soils). Stir 1 hour.

## BD #508 Horsetail (Equisetum arvense):

One Unit: \$5.00 Soil

or foliar applications, especially when conditions are too wet. Helps discourage fungal disease. Stir 20 minutes.



## BC Biodynamic Compound Spray:

One Unit: \$3.00 Barrel

Compost based on Maria Thun's recipe developed to counter uptake of radio-active fallout. Contains BD #502-507, basalt and eggshells. Useful when access to BD compost is limited and when plants are under stress. Should not be regarded as a long-term substitute for properly made BD compost. Stir 20 minutes.

# Biodynamic Kits

## Biodynamic Beginner Kits:

Kit #1: \$52.95-\$59.00

Treats up to one acre. Contents include:

- 1 – Unit – Pfeiffer Field & Garden Spray
- 1 – Unit – Pfeiffer Compost Starter
- 1 – Units – BD #501 Horn Silica
- 1 – Unit – BD #508 Horsetail Herb (Equisetum Arvense)
- 1 – Biodynamic Calendar (Prices Vary)

Kit #2 Pre-Potentized: \$46.95-\$53.00

Treats up to one acre. Contents include:

- 1 – Pfeiffer BD Compost Starter
- 1 – BC - BD Compound Prep (Thun Barrel Compost)
- 1 – BD #500(X) Pre-Potentized Horn Manure
- 1 – BD #501 (5X) Pre-Potentized Horn Silica
- 1 – BD #508 Horsetail herb (Equisetum arvense)
- 1 – Biodynamic Calendar (Prices Vary)

Kit #1 and Kit #2 include one Biodynamic Planting Calendar. Choose between:

- Celestial Planting Calendar
- Stella Natura Calendar
- Maria Thun Biodynamic Almanac

We recommend purchasing the book, Gardening for Life by Maria Thun as a resourceful tool to the new practitioner.

## Sequential Spray Kits:

BD Sequential Spray Kit #1: \$24.00

Includes one unit each:

BC (Biodynamic Compound Spray), BD #500 Horn Manure, BD #501 Horn Silica, and BD #508 Horsetail.

Sequential Spray Kit #2 Pre-Potentized: \$26.00

Includes one unit each of Biodynamic Compound Spray, BD #500(X) Horn Manure BD #501(5X) Horn Silica, and BD #508 Horsetail.

Developed by Hugh Courtney, a sequential spray of all of the biodynamic preparations can be used to balance hot, dry, droughty conditions. It can also be used to moderate conditions with too much moisture. More information can be found on our website.



## Biodynamic Compound Preparation Kit for Barrel Compost:

When access to biodynamic compost is limited, BC (BD Compound/Thun Barrel Compost) can be used to produce highly concentrated compost material that increases fertility and stimulates plant growth.

Kits are recommended for BD gatherings and large acreage.

Kit for Barrel Compost- Single Batch: \$31.00

Treats 12.5 gallons or 2-five-gallon buckets of manure. Includes one set of compost preparations (BD#502 – #507) 500 grams of basalt, 100 grams of finely crushed eggshells.

(You provide 12.5 gallons of manure, preferable biodynamic or organic from pastured cattle.)

Kit for Barrel Compost-Double Batch: \$62.00

Treats 25 gallons or 5 five-gallon buckets of manure. Includes two sets of compost preparations (BD#502 – #507), 200 grams of finely crushed eggshells and 1,000 grams of basalt.

(You provide 25 gallons of manure preferable biodynamic or organic from pastured cattle.)



# Specialty Preparations

## Biodynamic Tree Paste Concentrate:

quart \$30 / 1 gallon \$100 / 5 gallon \$350

One quart of paste when diluted will yield sufficient spray for six to eight trees or less if applied with a brush with consistency of thick paint. Strongly recommended after pruning to assist in healing wounds quickly. Improves vitality of ailing or damaged trees. Use after fall leaf drop and up until spring sap flow.

## Tree Harmonizer: \$25

Contains BC, BD #500, BD #501 or BD #508. Helps balance trees so they can regain their role as "cosmic harmonizers" to allow for greater penetration of cosmic energies.



## Valerian for Frost Protection: \$3.25

Fermented Valerian blossoms, BD# 507 helps protect plants and blossoming fruiting trees from late frost in the spring as well as from early frost in the fall.

## Hugo Erbe's Preparations

HE#8 Three Kings (Epiphany): \$35

HE#9 Harmonizing (Michaelmas): \$10

Fermented Valerian blossoms, BD# 507 helps protect plants and blossoming fruiting trees from late frost in the spring as well as from early frost in the fall.



## BD Compost Preparations

The Biodynamic Preparations are based on the original indications given by Rudolf Steiner. A healthy agriculture requires balance, which can be achieved by using the BD Preps in one form or another. All preparations are non-toxic. They are made of natural materials and are not chemically treated or processed in anyway.

Set of BD Compost Preparations BD #502-507: \$21

Treats up to 15 tons of manure or compost. Contains fermented and potentized Yarrow, Chamomile, Stinging Nettle, Oak Bark, Dandelion and Valerian that increase the proliferation of beneficial fungi and bacteria, stabilize nitrogen, attract trace elements and stimulate the silica, calcium, potassium, phosphorus and sulphur processes. Individual compost preparations are also available separately. See online store for pricing.



# ADDITIONAL RESOURCES

## Biodynamic Books and Calendars

*Please see our website for full list of resources*

To assist both new and advanced practitioners of biodynamic and regenerative agriculture, JPI offers an extensive catalog of books and other study materials on the following topics.

- Biodynamic Agriculture - An Introduction
- Biodynamic and Sustainable Agriculture
- Biodynamic Gardening
- Biodynamic Preparations and Compost
- Biodynamic Wine
- Bees and Beekeeping
- Cookbooks, Health, Medicine, Nutrition
- Dr. Ehrenfried Pfeiffer
- Dr. Rudolf Steiner and Spiritual Science
- Elementals and Nature Spirits
- Goethean Science and Research
- Social Renewal/Activism
- Spirituality and Psychology



## JPI Associative Contracts

Similar to the farmer-customer partnerships of Community Supported Agriculture (CSA), JPI offers its customers an opportunity to receive discounts and other benefits by contracting ahead of time for spring and fall preparations orders. This partnership helps to ensure that your biodynamic preparations requirements will be met. It also helps us to plan our preparation-making and distribution schedule in advance.

## Applied Biodynamics, the JPI Periodical

Deepening the practical application of biodynamic preparations since 1992, Applied Biodynamics includes many timeless and inspiring articles on a wide variety of subjects.

# INSTRUCTIONS AND GUIDES

*For a full list of instructions and guides, you can visit our website, [www.jpibiodynamics.org](http://www.jpibiodynamics.org)*

On the following pages, you can find instructions on our most popular biodynamic preparations. Please retain this catalog to refer to these instructions in the future. Please remember, if you have any further questions regarding our products, call into our office to speak with a member of our staff. We love to assist our fellow earth-healers with any questions, advice or guidance.



# HORN MANURE (#500)

## Biodynamic Spray #500: Horn Manure

### For Use on Soil:

Keep moist until used. Part portions may be used, keeping same proportions and stirring for an hour per portion.

Stir time will only be 20 minutes when using #500x: Pre-potentized Horn Manure.



### When to use:

- Spray shortly before seed sowing or transplanting.
- Use mainly in the spring or fall.
- Use during the latter part of the day.
- Use when there is no wind, preferably on an overcast day.
- Use when the soil contains some moisture- never in drought.
- Never just before a rain.

### What you need:

- 3 gallons of lukewarm rainwater (or chemical free water) for every 1 unit of BD#500.
- A clean container large enough to prevent splashing out (chemical-free).
- A light-weight, but strong stick.

### Directions:

- Stir vigorously in one direction until liquid forms a deep crater.
- Quickly reverse direction and repeat. Continue this alteration every minute or so for one full hour.
- When using #500x, stir time will be 20 minutes.

### Spraying:

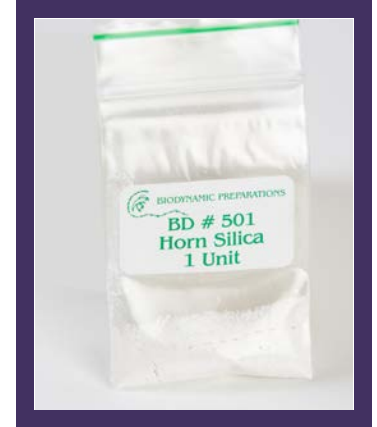
- Spray as soon as possible after stirring- it deteriorates rapidly if left standing. Use ordinary sprayer for a fine mist spray.
- To spray with an ordinary sprayer, you will need to strain the mixture.
- For small areas, use a bucket and whisk broom.
- Spray on soil. If possible, spray on soil that has been recently worked. If possible, rake lightly afterwards.
- Cover about one acre per unit.
- Always use chemical-free, clean utensils.
- If 500 has been used in the area before, quantities may be more dilute, increasingly so with each application.

# HORN SILICA (#501)

## Biodynamic Spray #501: Horn Silica

### For Use on Foliage:

Keep in any dry or sunny place until used. Keeps indefinitely if dry. Spray only on area where 500 has been used previously.



### When to use:

- Only after plant roots are well established.
- Use as early in the morning as possible.
- Use when there is no wind.
- Use with seedlings- when 2nd or 3rd leaves have unfolded.
- Use only following blossoms on trees or shrubs, before leaf growth.
- Use on foliage emergencies- when diseases or pests have destroyed much foliage.
- Usually in late spring or early summer when warm weather is well established.
- Never when there is a danger of frost.
- Never just before a rain.
- Never before transplanting.
- Never use on young evergreens and fruit trees. You can use when they are of bearing age.
- Use especially during wet seasons with too little sunshine.
- Use indoors or in greenhouses during shortest days of the year.

### What you need:

- 3 gallons of lukewarm rainwater (or chemical free water) for every 1 unit of BD#501.
- A clean container large enough to prevent splashing out (chemical-free).
- A light-weight, but strong stick.

### Directions:

- Stir vigorously in one direction until liquid forms a deep vortex.
- Quickly reverse direction and repeat. Continue this alteration every minute or so for one full hour.

### Spraying:

- Spray as soon as possible after stirring- it deteriorates rapidly if left standing. Use ordinary sprayer for a fine mist spray.
- Spray on foliage- but it will do no harm to soil.
- Cover about one acre per unit.
- Always use chemical-free, clean utensils.

# HORSETAIL (#508)

## #508: Horsetail Spray Instructions For Use on Foliage:

Keep dry and in darkness until needed. Part portions may be cooked, keeping same proportions. Fully effective only when used following other biodynamic preparations.

### When to use:

- Use during wet, damp or sunless warm weather as a preventative of or cure for fungus disease.
- Use only during the warm time of the year.
- Use in two-week intervals, but more often in emergencies.
- Use when there is no wind.
- Do not use when rain will soon wash it away.

### What you need:

- 1 quart of lukewarm rainwater (or chemical free water) for every 1 unit of BD#508.
- 2 gallons of water for later dilution.
- A clean container large enough to prevent splashing out (chemical-free).
- A light-weight, but strong stick.

### Directions:

- Heat up 1 unit of #508 with 1 quart of water slowly in a covered vessel for 20 minutes.
- Strain and dilute with 2 gallons of water.
- Stir vigorously in one direction until liquid forms a deep crater.
- Quickly reverse direction and repeat. Continue this alteration every minute or so for one full hour.

### Spraying:

- Spray with a clean sprayer. For small areas, use a bucket and whisk broom.
- Spray on foliage. Covers about one acre of ground per unit.
- Cover about one acre per unit.
- Always use chemical-free, clean utensils.
- If #508 has been used in the area before, quantities may be more dilute, increasingly so with each application.



# BIODYNAMIC COMPOUND (BC) SPRAY

## BC Instructions: Based on Maria Thun's Recipe For Use on Soil:

Store in a cool, dry place. Not a refrigerator. Away from any electrical outlets.



### When to use:

Use mainly in the spring or fall, use just before tilling.

Use during the latter part of the day.

Use when the soil contains some moisture-never in a drought.

Do not use just before a rain.

### What you need:

- A minimum of 3 gallons of lukewarm rainwater (or chemical free water) for every 1 unit of Biodynamic Compound.
- A clean container large enough to prevent splashing out (chemical-free).
- A light-weight, but strong stick.

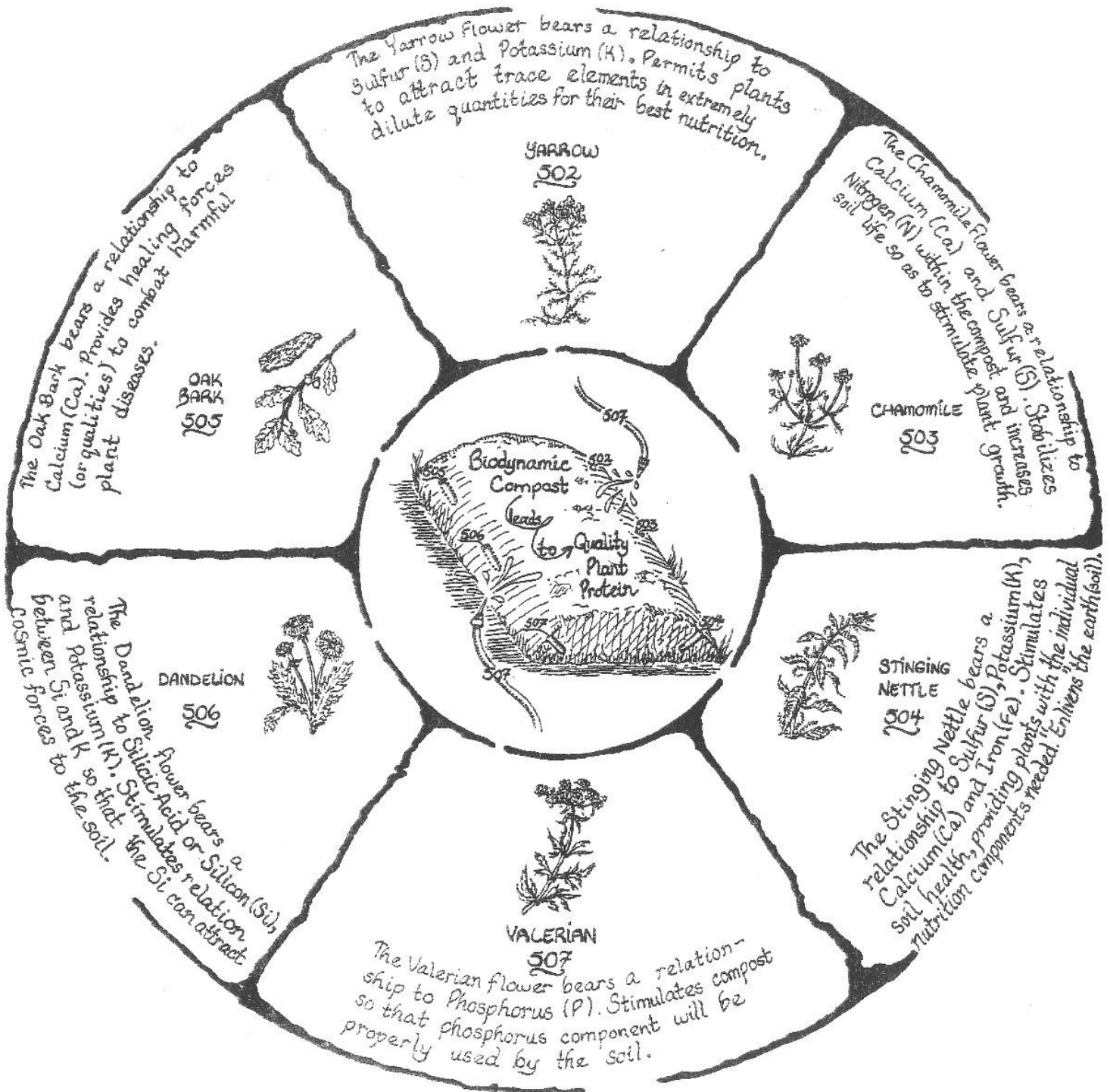
### Directions:

- Add 1 unit of BC to at least 3 gallons of lukewarm water.
- Stir vigorously in one direction until liquid forms a deep crater.
- Quickly **reverse** direction and repeat. Continue this alteration every minute or so for **20 minutes**.

### Spraying:

- Spray with a clean sprayer. For small areas, use a bucket and whisk broom.
- Spray on soil. Covers about one acre of ground per unit.
- Cover about one acre per unit.
- Always use chemical-free, clean utensils.

# Biodynamic Compost Preparations



\* Steiner designated these particular herbs/materials as those in the plant kingdom which held the particular element(s) in the best possible form and/or ratio for use by the soil.

# STORING BIODYNAMIC PREPARATIONS

## INTRODUCTION

The proper care and storage of the biodynamic preparations is essential if their effectiveness is to be maintained. Inappropriate or careless handling can render the preparations impotent. Certain cautions apply to all the preparations, while different groups of them have similar storage requirements. This presentation attempts to outline the most important requirements for proper biodynamic preparations storage and does not presume to be all-inclusive or the final authority on the subject. It can be helpful to think that storing preparations is like storing vegetables or grains. One wants to preserve as much vitality and freshness as possible until they are used.\*\*\*

## IN GENERAL...

- Preparations must not come in physical contact to one another or with foreign substances (peat moss, straw, etc.)
- Preparations must be kept away from electronic and electric circuitry. We recommend an arbitrary distance of at least eight feet but better would be a remote location or one separated from electromagnetic fields by a wall made of stone or other natural materials.
- Keep preparations away from noxious fumes (gasoline, household chemicals, etc.).

## PREPARATIONS STORAGE REQUIREMENTS

### Storing #500 #502 #503 #504 #505 #506 & Barrel Compost

**Storage Requirements** These preparations above all must be kept from drying out. They must be stored in a cool place away from excessive light, but they must be allowed to "breathe". They should be kept separately in one of the following kinds of containers (in order of preference): Glazed ceramic crocks, glass, or unglazed clay vessel. Some BD practitioners drill three or so small drain holes into the crock bottoms. Lids should be loose fitting. Suggested lid material in order of preference is crockery, natural stone (slate, etc.), glass, wood (not ply), metal, and cork. A root cellar, an old well house or pit, or a shaded outbuilding are considered good locations to keep these preparations.

### Storage Receptacles

Storage receptacles should be surrounded on all sides by at least three inches of peat moss. Long-fibered sphagnum peat is less likely to "dust" into and contaminate the preparations. Pulverized peat can be wetted down a bit to prevent dusting. A diagram for a portable or stationary wooden "prep box" is given below. Very small amounts of preparations can be stored in clean glass baby food jars or the like and loosely stoppered. (In a pinch, the jar lids can be used and punctured in a couple of spots). Another low budget storage possibility (stationary) is to dig a wooden barrel (or part of one) or stacked beehive boxes/supers into the soil, and then place the containers surrounded by peat moss inside this space. A flat stone can be used as a floor if necessary.

The preparations should not be allowed to freeze (it is not certain to what extent if any natural freezing would denature them). The cover of the prep box or storage area must have the three-inch peat moss insulation. Best would be a cover made of wood, such as the thin slats from old pallets as shown in the diagram (avoid ply and treated woods and plastic). A burlap or other natural fiber "pillow" stuffed with peat is also possible but the fabric tends to deteriorate quickly and "bleed" peat into the individual containers.

### #501

#### Storage Requirements

- Avoid moisture
- Expose to direct sunlight (The receptacle may be kept on a windowledge)

#### Storage Receptacles

- Original horn sheath
- Clear glass container with non-plastic lid.

### #508

#### Storage Requirements

- Keep in a dry, dark location.

#### Storage Receptacles

- Any dry opaque container.

### #507

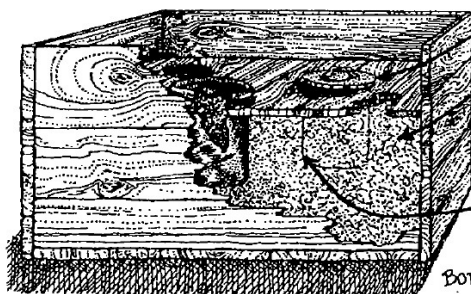
#### Storage Requirements

- Avoid exposure to light
- Keep cool
- Keep tightly stoppered (fermentation gases may need to be vented from time to time).

#### Storage Receptacles

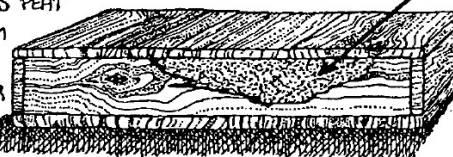
- Glass bottle, preferably brown. (The clear glass vials in which the individual units are shipped can be put inside a brown glass bottle.)

PREP BOX CROSS SECTION





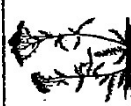






RECEPTACLE STICKS OUT 1/2" OR SO PAST WOOD SEAL.  
WOOD SEAL WITH CURBUTS FOR RECEPTACLES KEEPS PEAT DUST AWAY FROM PREPARATIONS.  
PEAT MOSS 3" OR MORE BETWEEN RECEPTACLES, BOTTOMS AND SIDES OF BOX.

LID FOR BOX



FILL INSIDE OF LID WITH PEAT BEFORE NAILING DOWN LAST SIDE. JOINTS MUST BE TIGHT.

\*\*\*\* A basic storage setup is not difficult to arrange. However, the "finer points" can be confusing. Please write or phone your questions to: Josephine Porter Institute, ~~PO BOX 133, WOODGATE, CALIFORNIA 92386~~ (540)-745-7030  
IF NO STORAGE IS AVAILABLE, USE PREPARATIONS NO LATER THAN THREE WEEKS AFTER RECEIVING THEM!!!

Bio-Dynamic Preparations	Herb or Material	Unit Size (North America)	Procedure for Using	Functions in the Area of:	Effects or Results	
BD # 500	 Madder HORNBILL	wt. = 1oz. in 1/4 cup water for 1 acre.*	stir one hour SPRAY	Reproduction & Growth (?)	Promotes root activity. Stimulates soil micro-life & increases beneficial bacteria growth. Regulates lime & nitrogen content. Helps in release of trace elements. Stimulates germination of seeds.	
BD # 501	 Silphium HORNBILL	wt. = 1 gram Vol. = 1/2 tsp. per acre*	stir one hour SPRAY	Foodstuffs (?)	Enhances light metabolism of plant. Stimulates photosynthesis & formation of chlorophyll. Influences colour, aroma, flavor & keeping qualities of crops.	
BD # 502	 Yarrow HORNBILL	wt. = 1 gram Vol. = 1 tsp. 10-15 tons material	I N S E R T I N C O M P O S T P I L E	Reproduction & Growth	Permits plants to attract trace elements in extremely dilute quantities for their best nutrition.	
BD # 503	 Chamomile HORNBILL	wt. = 1 gram Vol. = 1 tsp. 10-15 tons material		Reproduction & Growth	Stabilizes nitrogen (N) within the compost & increases soil life so as to stimulate plant growth.	
BD # 504	 Nettle HORNBILL	wt. = 1 gram Vol. = 1 tsp. 10-15 tons material		Foodstuffs	Stimulates soil health, providing plants with the individual nutrition components needed. 'Enlivens' the earth (soil).	
BD # 505	 Oak bark HORNBILL	wt. = 1 gram Vol. = 1 tsp. 10-15 tons material		Reproduction & Growth	Provides healing forces (or qualities) to combat harmful plant diseases.	
BD # 506	 Ox-eye daisy HORNBILL	wt. = 1 gram Vol. = 1 tsp. 10-15 tons material		Foodstuffs	Stimulates relation between Si & K so that Si can attract cosmic forces to the soil.	
BD # 507	 Valerian HORNBILL	Vol. = 1 ml or 20-30 drops 1 gallon water		Foodstuffs	Stimulates compost so that phosphorus components will be properly used by the soil.	
BD # 508	 Hornbill HORNBILL	Vol. = 10 oz. wt. = 1 1/2 oz. 2 gallons water per acre**		Make Tea stir 20 min. SPRAY	Foodstuffs (?)	Serves as preventative to lessen the effects when conditions conducive to fungus problems exist.
		As determined by Dr. E. Pfeiffer * dependent on calibration of spraying equipment		As indicated by R. Steiner in AGRICULTURE. (?) Not actually shared by Steiner but may be inferred.	As indicated by R. Steiner in AGRICULTURE & as determined by Pfeiffer & other pioneer practitioners of the Bio-dynamic method of agriculture.	

*“ The most important thing is to make the benefits of our agricultural preparations available to the largest possible areas over the entire earth, so that the earth may be healed and the nutritive quality of its produce improved in every respect...”*

*...“This is a problem of nutrition. Nutrition as it is today does not supply the strength necessary for manifesting the spirit in physical life. A bridge can no longer be built from thinking to will and action. Food plants no longer contain the forces people need for this.”*

*-Rudolf Steiner in Agriculture, 1924*



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