

# Pfeiffer™ BD Field & Garden Spray

*JPI is the owner of this proprietary formula as well as the “Pfeiffer” trademark (for agriculture) as given by the Pfeiffer Foundation.*

The Pfeiffer™ Biodynamic (BD) Field & Garden Spray aids humus formation in organic materials already in the topsoil. In the farm field and in the garden, it serves to stimulate and attract a full range of soil microflora and fauna turning dead soil into healthy living earth.

## **Composition of The Pfeiffer™ BD Field & Garden Spray**

This potent sprays contains the biodynamic agricultural preparations BD #500, #502, #503, #504, #505, #506, and #507, which give this product its unique effectiveness. It stimulates the proliferation of beneficial soil bacteria and enzymes helping to accelerate the breakdown of organic matter without tying down nitrogen or other delaying actions. Following such breakdown there is a subsequent build up into helpful humus compounds. Properly activated for use, each ounce can yield more than 5.6 billion CFU's (colony forming units) of beneficial organisms.<sup>1</sup> Although the BD Field & Garden Spray contains cow manure as one of its ingredients, laboratory tests on it were found to be negative for *Listeria*, *Salmonella*, and *E-coli* O157.<sup>2</sup>

## **The Uses & Benefits of Using Pfeiffer™ BD Field & Garden Spray**

Ordinarily, green manure crops that are plowed or disked under can take considerable time to decompose. During this period, they require the activity of bacteria and other soil micro-life to accomplish decomposition. Until or unless the green manure is decomposed, crop plants receive little or no growth stimulus. The BD Field & Garden Spray should be sprayed over green manure crops, cover crops, stubble, crop residues, grass sods, etc., just before disking or turning them under. The topsoil can be turned immediately after application, and these disked-under crops and crop residues decompose very rapidly under the influence of the BD Field & Garden Spray. Some crop residues containing lots of fibers or woody stems, such as cotton, may take longer than others to decompose. Allow approximately two weeks for decomposition before seeds are sown.

The ingredients in the BD Field & Garden Spray do not attack living organisms, such as plant leaves or roots. It can be used in the garden to take care of plant residues that are dug under. It can also be used for so-called sheet composting. Additionally, both as a soil and/or a foliar spray to maximize soil health and to encourage plant growth, the BD Field & Garden Spray has numerous garden uses. Direct application to pastures and hayfields can best be made when pasture growth is short, in early spring, after haying, or after grazing. Maximum soil contact is desirable. It is very useful as a seed bath prior to planting to enhance germination. As a foliar spray, it can stimulate flowering and fruit set on such crops as tomatoes, peppers, or squash. When so used, substantial contact with the underside of plant leaves is highly desirable. Once a field has been treated with the BD Field & Garden Spray, subsequent tillage will be much easier and can be accomplished with tractors of a lower horsepower, thus helping to reduce soil compaction.

## **Directions for Activating the Dried Pfeiffer BD Field & Garden Spray**

One unit of BD Field & Garden Spray treats one acre of land. It comes in single or multiple units but one unit is the smallest quantity we can ship. If your garden is less than one acre, activate only 1 level

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<sup>1</sup> Tested by MIDWEST LABORATORIES, INC., 13611 B. Street, Omaha NE 68144

<sup>2</sup> Ibid.

teaspoon (1 tsp.). This will give coverage for 1,000 square feet. Activation of 1 level tablespoon (1 Tbsp.) will cover 3,000 square feet.

Again, only activate the amount needed for smaller applications. One can use above portions as needed for repeated applications to areas smaller than an acre. It can be used with excellent effect to water houseplants or as a bath for seeds or bulbs to enhance germination and subsequent plant health, as well as numerous other uses.

To activate, moisten the BD Field & Garden Spray in a flat pan or dish with just enough water to keep it moist and pasty. *(It will take a few minutes to get the powder moist; then it will absorb readily so that you will have to moisten it once more.)* Allow the moistened BD Field & Garden Spray to activate for approximately 12 to 16 hours or overnight. Dilute the resultant paste-like substance in the desired quantity of water to fill your spraying equipment. *(It is immaterial whether the dilution is done with 5 or 50 gallons of water, just so each unit covers one acre. Use as much water as needed.)*

**IMPORTANT:** The BD Field & Garden Spray has been dried without doing harm to its ingredients. As long as the product is kept dry and stored in a cool place (refrigeration is not necessary) and protected against exposure to direct sunlight, its shelf life will be approximately 9 months to 2 years, or more.

#### **Directions for Using the Pfeiffer BD Field & Garden Spray**

Get your spraying equipment ready. If it has been used for other spray materials, clean it thoroughly by flushing it with clean water several times. If poison sprays were used, wash and flush poison with lye (1% solution) or soda (5% solution) and flush several times with clean water. After exposure to air and light, chlorinated city water will soon lose its chlorine content and can be used.

By way of a trial run or through past experience, find out first how much water your spray equipment holds and how much surface its capacity will cover. The BD Field & Garden Spray has been screened through a 50-mesh screen and should pass any nozzle of 0.0175 inch or larger opening. Oval or ellipsoid nozzles usually clog less than round openings. If in doubt, strain the activated liquid through a paint screen, or a sieve used in pottery, or even panty hose.

When starting with a full tank, the traveling speed over a field, plus the spraying speed (as the result of the size of the nozzle opening), plus the pressure in the spray equipment will determine the surface area that you can spray in one run. Thus, after calibrating your spray equipment, you will know how much water it takes to cover an acre. In a backyard garden situation, 3 to 5 gallons in a backpack sprayer can provide excellent coverage for up to 1 acre. One may also readily apply it using a hand held whisk or brush for a small garden area.

Therefore, if your sprayer takes 50 gallons to cover 1 acre, and has a tank with a capacity of 300 gallons, you would use 6 units and spray 6 acres at the rate of 50 gallons per acre. Or, if you are covering ½ acre in 20 minutes walking with a 5-gallon backpack sprayer, use ½ unit to fill the sprayer. Once you know the discharge speed and area coverage of your sprayer, the rest is easy. Spray rigs should be equipped with an agitator. Spray as close to the ground as you can and do not spray if the wind carries the spray to another field.

**IMPORTANT:** if the job has to be interrupted, be sure that the solution gets thoroughly mixed and stirred again before subsequent use. Interruption of a few hours or overnight will not reduce the effectiveness. However, letting the solution stand several days will definitely alter its quality, potency, and ultimately the results.