

# Bio Soil

## USAGE GUIDE

### What is Bio Soil?

Bio Soil is an OMRI-listed blend of microorganisms and biological compounds designed for soil application use. It is produced through a natural fermentation process and is not chemically synthesized, genetically engineered or modified. It is environmentally safe and distinctly effective in improving soil quality.

Australian made Bio Soil has been certified by Southern Cross Certified as an Allowed Input (Certificate 20029).

Note: The rates provided below are recommendations only and may need to be varied depending on water quality. For more information, please email [roger@probiotics.net.au](mailto:roger@probiotics.net.au)

### Crops or plants that can be treated with this Usage Guide include:

Almonds, pecans, walnuts, corn, cotton, soybean, bean, onion, rice, carrots, cabbage, tomatoes, cucumbers, peppers, garlic, celery, parsnips, root vegetables, greenhouse operations, capsicums, grapes, citrus, tobacco, wheat, cherries, apricots, apples, pears, peaches, plums, sour cherries and sweet potatoes.

For a customised application, contact [roger@probiotics.net.au](mailto:roger@probiotics.net.au)

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## Household Usages

Application	Dilution Ratio or Dilution Example	How to Apply
<b>Window Boxes and Indoor Plants</b>	Dilution of product to water 1:50	When planting, prepare dilution in spray bottle and mist planting holes and surface of loosened soil before placing and covering seeds. After planting, mist surface of plant with <b>Bio Soil</b> or apply as additive to the watering system every 7-10 days. Do not spray blooms.
<b>Yard Composting</b> for accelerated composting	1:100	Dilute <b>Bio Soil</b> (1:100) with water and saturate the compost. Apply every two weeks. Cover the compost for best results.
<b>Commercial Composting</b> for accelerated composting in large scale operations	5 litres per tonne of waste	Spray <b>Bio Soil</b> on the compost material. Make the second application in 7-10 days during the first turning of windrow.
<b>Lawn and Garden</b>	1:1,000	Dilute <b>Bio Soil</b> with water (1:1000) and apply in Spring and Autumn as a spray or as an additive to watering system. Apply once a month and water thoroughly after each application.
<b>Lawns and Flowering Shrubs</b>	15ml per tree or shrub	For new plants, prepare soil and water with <b>Bio Soil</b> dilution (1:1000). Let the soil sit for two weeks before planting. After planting or on established plants, spray soil and/or foliage with dilution every 2-3 weeks during the entire growing season. DO NOT spray blooms or they may drop.
<b>Foliar Spraying</b>	15ml per litre of water	Use a spray bottle or watering can. This can be applied twice a month.

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## Agricultural Usages

Application	Dosage/Range of Bio Soil	How to Apply
<b>Agricultural Inoculant</b>	50-300 litres/hectare	<p>Apply as an additive to irrigation water. May add 20 – 115 litres per acre per application. Number of applications is determined according to economic feasibility but with a maximum total of 600 litres per hectare per growing season. The dilution or application ratio may vary depending on soil type and soil structure.</p> <p>Growing season could be cool or warm seasons with some of these common subcategories: (a) before planting, (b) after planting/nursery/leaf bud stage, (c) before flowering, (d) after flowering/fruit formation, (e) ripening/before harvesting.</p>
<b>Plant Propagation</b> from leaf, stem or root cuttings	Dilution of product to water is 1:100	<p>To propagate in water: Introduce stem, vine or root to diluted mix at room temperature. When new roots sprout, plant in soil moistened with dilution.</p> <p>To propagate in soil: Moisten soil with dilution and insert leaf or stem. Continue watering with dilution until plant is established.</p>
<b>Foliar Spraying</b>	Dilution of product to water is 1:500	<p>For citrus, use the solution 5 times every 2 weeks. For vineyards, spray once per month during winter, twice per week during spring, once per week during summer and within 48 hours of harvest.</p> <p>Otherwise, this can be applied twice a month.</p>
<b>Orchard</b>	100-600 litres per hectare	<p>Spray <b>Bio Soil</b> diluted with water (1:1000) during growing season. Do not spray while blooming or blooms may drop. If applying product as an additive to irrigation water, refer to 'Agricultural Inoculant' above.</p> <p>Growing season could be cool or warm seasons with some of these common subcategories: (a) before planting, (b) after planting/nursery/leaf bud stage, (c) before flowering, (d) after flowering/fruit formation, (e) ripening/before harvesting.</p>

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<b>Treatment after harvest and storage</b>	Dilution of product to water is 1:100	Spray directly on the produce within 48 hours before harvest, then spray the storage area as well.
<b>Seed Soak</b>	Dilution of product to water is 1:1,000	Soak small seeds: 5 – 10 minutes; Soak medium seeds: 10 – 20 minutes; Soak large seeds: 20 – 30 minutes.
<b>Hydroponic Systems</b>	Dilution of product to water is 1:10,000	Add dilution to system along with nutrient solution.

## Storage

Store at room temperature and DO NOT REFRIGERATE.

Always keep the lid tightly on and away from direct sunlight.

Bio Soil is produced through a natural fermentation process and is not chemically synthesized, genetically engineered or modified (Non-GMO).

This product may cause sedimentation but that will not impact the product's effectiveness.

Shelf life of 2 years, however best to use within 6 months of opening.

Safe for people, pets, plants and the planet.

**Manufactured in Australia by OzProbiotics Pty Ltd**

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