BioPath AGRICULTURE APPLICATIONS				
CROPS	METHOD OF APPLICATION	APPLICATION RATE (US / Metric)		
Berries and Small Fruits: Blackberries, Blueberries, Currants, Elderberries, Gooseberries, Huckleberries, Loganberries, Raspberries, Strawberries, Grapes	Pre-plant Application	16 oz - 32 oz in 35 to 50 gals of water per acre / 1.17 L – 2.34 L in 327 to 468 L of water per ha to allow soil saturation		
	Cuttings and Bare Root	32 oz - 64 oz in 50 gals of water/ 946 ml – 1.89 L in 189 L of water for dipping		
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha every two to four weeks through growing season		
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		
Bulb Vegetables: Garlic, Leeks, Onions, Shallots, Ornamental Bulbs	Pre-plant Application	16 oz 32 oz. in 35 to 50 gals of water per acre / 1.17 L – 2.34 L in 327 to 468 L of water per ha to allow soil saturation		
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		
	Greenhouse and Nursery	Pre-mix 24 oz to 32 oz in 5 to 8 gals of warm water and agitate well – inject @ 1:100 dilution per 20,000 sq. ft. / 710 ml to 946 ml in 19 L to 30 L of warm water and agitate well – inject @ 1:100 dilution per 1,858 sq. m and apply through drip or spray.		
Cereal Grains: Buckwheat, Corn (grain, seed, sweet corn, silage, popcorn, high oil), Rye,	Pre-plant Application	16 oz 32 oz. in 35 to 50 gals of water per acre / 1.17 L – 2.34 L in 327 to 468 L of water per ha to allow soil saturation		
Wheat, Sorghum, Millet, Oats, Alfalfa	In-Furrow	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		
	Banded	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		
Citrus Fruits: Citrus Hybrids, Grapefruit, Kumquat, Limes, Oranges, Pummelos	Cuttings and Bare Root	32 oz - 64 oz in 50 gals of water / 946 ml – 1.89 L in 189 L of water for dipping		
	Fertigation	Apply 16 oz $-$ 32 oz of product per acre $/$ 1.17 L $-$ 2.34 L of product per ha monthly through drip or microjet		
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		
	Greenhouse and Nursery	Pre-mix 24 oz to 32 oz in 5 to 8 gals of warm water and agitate well - inject @ 1:100 dilution per 20,000 sq. ft. / 710 ml to 946 ml in 19 L to 30 L of warm water and agitate well - inject @ 1:100 dilution per 1,858 sq. m. and apply through drip or spray monthly.		
	Transplant Drench	Mix 24 oz to 32 oz in 50 gals of water / 710 ml to 946 ml in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 ml of finished product to 19 L plant material.		
Conifer Tree Seedlings, Conifer Trees:	In-Furrow	Apply 16 oz - 32 oz / 1.17 L – 2.34 L in sufficient amount of water to inoculate 1 ac/ha		
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		
	Greenhouse and Nursery	Pre-mix 24 oz to 32 oz in 5 to 8 gals of warm water and agitate well - inject @ 1:100 dilution per 20,000 sq. ft. / 710 ml to 946 ml in 19 L to 30 L of warm water and agitate well - inject @ 1:100 dilution per 1,858 sq. m. and apply through drip or spray monthly.		
	Transplant Drench	Mix 24 oz to 32 oz in 50 gals of water / 710 ml to 946 ml in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 ml of finished product to 19 L plant material.		
Cucurbit Vegetables: Cucumbers, Melons, Musk Melons, Gourds, Pumpkins, Squash	Pre-plant Application	For application when preparing seed bed – Inject 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha through drip or with pre-plant herbicide		
	At-plant Application	Apply 32 oz of product per acre with transplant water		
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha through drip		
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre foliarly / 1.17 L – 2.34 L of product per ha		
	In-Furrow	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		
	Banded	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha		

Fruiting Vegetables: Eggplant, Sweet and Hot Peppers, Tomatillos, Tomatoes	Pre-plant Application	16 oz 32 oz. in 35 to 50 gals of water per acre / 1.17 L – 2.34 L in 327 to 468 L of water per ha to allow soil saturation
	At-plant Application	Apply 32 oz of product per acre with transplant water
	Cuttings and Bare Root	32 oz - 64 oz in 50 gals of water / 946 ml – 1.89 L in 189 L of water for dipping
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Greenhouse and Nursery	Pre-mix 24 oz to 32 oz in 5 to 8 gals of warm water and agitate well - inject @ 1:100 dilution per 20,000 sq. ft. / 710 ml to 946 ml in 19 L to 30 L of warm water and agitate well - inject @ 1:100 dilution per 1,858 sq. m. and apply through drip or spray monthly.
Herbs, Spices, and Mints:	Cuttings and Bare Root	32 oz - 64 oz in 50 gals of water / 946 ml – 1.89 L in 189 L of water for dipping
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Greenhouse and Nursery	Pre-mix 24 oz to 32 oz in 5 to 8 gals of warm water and agitate well - inject @ 1:100 dilution per 20,000 sq. ft. / 710 ml to 946 ml in 19 L to 30 L of warm water and agitate well - inject @ 1:100 dilution per 1,858 sq. m. and apply through drip or spray monthly.
Hydroponic Crops:	Cuttings and Bare Root	32 oz - 64 oz in 50 gals of water / 946 ml – 1.89 L in 189 L of water for dipping
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Substrate Mix	Mix 16 oz – 32 oz per cubic yard / 619 ml to 1.24 L per cubic meter of substrate
Leafy and Brassica (Cole) Leafy Vegetables: Arugula, Celery, Chervil, Endive, Fennel,	Pre-plant Application	16 oz 32 oz. in 35 to 50 gals of water per acre / 1.17 L – 2.34 L in 327 to 468 L of water per ha to allow soil saturation
Lettuce (head and leaf), Parsley, Radicchio, Rhubarb, Spinach, Swiss Chard, Broccoli,	In-Furrow	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
Brussels Sprouts, Cabbage, Cauliflower, Collards, Kale, Kohlrabi, Mustard Greens	Banded	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
Asparagus	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Greenhouse and Nursery	Pre-mix 24 oz to 32 oz in 5 to 8 gals of warm water and agitate well - inject @ 1:100 dilution per 20,000 sq. ft. / 710 ml to 946 ml in 19 L to 30 L of warm water and agitate well - inject @ 1:100 dilution per 1,858 sq. m. and apply through drip or spray monthly.
Legume Vegetables (Succulent or Dried): Beans (soybean, snap, dry), Lentils, Peas	Pre-plant Application	16 oz 32 oz. in 35 to 50 gals of water per acre / 1.17 L – 2.34 L in 327 to 468 L of water per ha to allow soil saturation
	In-Furrow	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Banded	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
Oilseed Crops: Cotton, Canola, Safflower,	Tank Spray Mix Pre-plant Application	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha 16 oz 32 oz. in 35 to 50 gals of water per acre / 1.17 L – 2.34 L in 327 to
Sunflower	In-Furrow	468 L of water per ha to allow soil saturation Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of
	Banded	product per ha Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
Peanuts:	Pre-plant Application	16 oz 32 oz. in 35 to 50 gals of water per acre / 1.17 L – 2.34 L in 327 to 468 L of water per ha to allow soil saturation
	In-Furrow	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha with rhizobia inoculant
	Banded	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha

Pome Fruits: Pears, Quince, Apples	Cuttings and Bare Root	32 oz - 64 oz in 50 gals of water / 946 ml – 1.89 L in 189 L of water for dipping
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Greenhouse and Nursery	Pre-mix 24 oz to 32 oz in 5 to 8 gals of warm water and agitate well - inject @ 1:100 dilution per 20,000 sq. ft. / 710 ml to 946 ml in 19 L to 30 L of warm water and agitate well - inject @ 1:100 dilution per 1,858 sq. m. and apply through drip or spray monthly.
	Transplant Drench	Mix 24 oz to 32 oz in 50 gals of water / 710 ml to 946 ml in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 ml of finished product to 19 L plant material.
Root and Tuber Vegetables: Beets, Sugar Beets, Carrots, Celeriac, Chicory, Horseradish,	Pre-plant Application	16 oz 32 oz. in 35 to 50 gals of water per acre / 1.17 L – 2.34 L in 327 to 468 L of water per ha to allow soil saturation
Parsnip, Radish, Salsify, Turnips Potatoes,	In-Furrow	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
Sweet Potatoes, Yams, Jerusalem Artichoke,	Banded	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
Cassava, Ginger	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
Shadehouse and Outdoor Nursery Crops: Deciduous trees (Maple, Oak, ect.),	Cuttings and Bare Root	32 oz - 64 oz in 50 gals of water / 946 ml – 1.89 L in 189 L of water for dipping
Ornamentals, Grapes, Citrus, Pine	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
endinentally endpess, and asy, me	Greenhouse and Nursery	Pre-mix 24 oz to 32 oz in 5 to 8 gals of warm water and agitate well - inject @ 1:100 dilution per 20,000 sq. ft. / 710 ml to 946 ml in 19 L to 30 L of warm water and agitate well - inject @ 1:100 dilution per 1,858 sq. m. and apply through drip or spray monthly.
	Transplant Drench	Mix 24 oz to 32 oz in 50 gals of water / 710 ml to 946 ml in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 ml of finished product to 19 L plant material.
Stone Fruits: Apricots, Cherries, Nectarines, Peaches, Plums, Prunes	Cuttings and Bare Root	32 oz - 64 oz in 50 gals of water / 946 ml – 1.89 L in 189 L of water for dipping
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Greenhouse and Nursery	Pre-mix 24 oz to 32 oz in 5 to 8 gals of warm water and agitate well - inject @ 1:100 dilution per 20,000 sq. ft. / 710 ml to 946 ml in 19 L to 30 L of warm water and agitate well - inject @ 1:100 dilution per 1,858 sq. m. and
	Transplant Drench	apply through drip or spray monthly. Mix 24 oz to 32 oz in 50 gals of water / 710 ml to 946 ml in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 ml of finished product to 19 L plant material.
Tree Nuts: Almonds, Beech Nuts, Brazil Nuts, Butternuts, Cashews, Chestnuts, Filberts,	Cuttings and Bare Root	32 oz - 64 oz in 50 gals of water / 946 ml – 1.89 L in 189 L of water for dipping
Hickory Nuts, Macadamia Nuts, Pecans,	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
Pistachios, Walnuts	Tank Spray Mix	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Greenhouse and Nursery	Pre-mix 24 oz to 32 oz in 5 to 8 gals of warm water and agitate well - inject @ 1:100 dilution per 20,000 sq. ft. / 710 ml to 946 ml in 19 L to 30 L of warm water and agitate well - inject @ 1:100 dilution per 1,858 sq. m. and apply through drip or spray monthly.
	Transplant Drench	Mix 24 oz to 32 oz in 50 gals of water / 710 ml to 946 ml in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 ml of finished product to 19 L plant material.
Tropical Fruits : Avocado, Mango, Papaya, Pineapple, Bananas, Plantains	Cuttings and Bare Root	32 oz - 64 oz in 50 gals of water / 946 ml – 1.89 L in 189 L of water for dipping
	Fertigation	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha
	Tank Spray Mix Greenhouse and Nursery	Apply 16 oz – 32 oz of product per acre / 1.17 L – 2.34 L of product per ha Pre-mix 24 oz to 32 oz in 5 to 8 gals of warm water and agitate well - inject @ 1:100 dilution per 20,000 sq. ft. / 710 ml to 946 ml in 19 L to 30 L of warm water and agitate well - inject @ 1:100 dilution per 1,858 sq. m. and apply through drip or spray monthly.
	Transplant Drench	Mix 24 oz to 32 oz in 50 gals of water / 710 ml to 946 ml in 189 L of water and soak root ball prior to backfilling hole. Utilize 1 quart (32 oz) of finished product to 5 gals of plant material / 946 ml of finished product to 19 L plant material.

Amendment Application:	Method of Application:	
Improves poor soil conditions, preparing the soil for plant development; Apply where soils have traditional pH issues, where soils have low CEC, where soils lack organic matter; where soils have lack of percolation, where soils have lack of water holding capacity	 Tank Mix – Mechanically Applied Fertigation Substrate Mix 	
At Planting Application:	Method of Application:	
Populates the beneficial microbes in the rhizosphere where the root is first exposed to its growth environment. The environment where the critical plant – microbe symbiotic relationship is established; triggering germination; promotes faster and stronger rooting	 Cutting and Bare Root In Furrow Banded Transplant Drench Greenhouse and Nursery Application 	
Foundation Application:	Method of Application:	
Apply at critical growth stages, supporting microbial growth patterns and populations allowing the beneficial microbial functions to continue to colonize the roots, improving root architecture, and rejuvenating soil structure	 Tank Mix – Mechanically Applied Fertigation Greenhouse and Nursery Application 	
Maintenance Applications:	Method of Application:	
A continuation of supporting early stage applications; improve soil conditions, mineralize and hold nutrients, reinforcing the plant - microbial symbiotic relationship all the way through harvest	 Tank Mix – Mechanically Applied Fertigation Greenhouse and Nursery Application 	