



GREAT PACIFIC
BIOPRODUCTS LTD.

Liquid Organic Fresh Fish Fertilizer

After Harvest Application Explanation: Editorial by Herb Bosse, Technical Sales Representative

1. *Why is after harvest application of Pacific Natural an important application?*
 - Utilization of dormant season to compost the soil, break-down existing nutrients and enable uptake by the plant in the next growing season.
 - Fish application will stimulate microbial and fungal activity in the soil and has been shown to actually increase soil temperature of 1-2 ° F (Budweiser Hop growers in Washington and Idaho.).
 - Product is made by a process that preserves the large array of nutrients in natural form, including enzymes found in the source fish (Dogfish shark). These enzymes help create a composting or catalyst effect in soils, unused components of other fertilizer applications and post-harvest plant residues.
 - The organic nutrients in this product provide a broad spectrum soil food, including trace minerals. Take a soil test before and after using this product and you will see an impressive difference.

2. *What's different about Pacific Natural fresh fish fertilizer?*
 - Quality control and uniformity of nutritional profile compared to most other fish-based fertilizers using decomposing fish waste from many fish species.
 - The only fish fertilizer product we know of that is prepared daily from FRESH single-species fish byproducts from the company's human consumption production operation. Also, the natural oils and enzymes from the fish are left in this product – most other fish fertilizers have very little if any oil/lipids as they are stripped off and sold as a separate product. These oils help to hold nutrients in the soil – no leaching.
 - Price is very cost effective and you will see the results in soil fertility and your next crop.
 - As the product is liquid, flowable, double screened and easy to mix and to dilute, any application method provides easy application.

3. *How and how much to apply?*
 - For post-harvest application, apply at the rate of 10 gallons of fish fertilizer per acre, tilled in to the soil. Ideally dilute concentrate 10 gallons water to 1 gallon fish, but if rain is forecast or irrigation is available, reduce the dilution.
 - Repetitive year to year and in-season applications can reduce this post-harvest rate.

4. *When to apply?*
 - After harvest, the longer in the soil the better. Product will not freeze and will continue to work and provide nutrients for soil microbes even at low over-winter temperatures.

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5. *Crops that benefit from post-harvest application*
- All crops, trees, and vine crops benefit by use of this product
 - All row crops
 - All tree fruit crops, berry crops and vine crops, including Hops
 - Walnut and almond trees (to name a few)
 - Cranberries
 - Grass crops (e.g. hay, alfalfa, barley)
 - Nursery seedlings of all types
 - Bulb crops (e.g. tulips)
6. *Expected results*
- Earlier plant development resulting in more bloom, more fruit, healthier plant tissues, improved root system development, sweeter fruit and higher Brix/sugar content in many crops.
 - Replenished soil – Nutrition building – of soils from long term use of synthetic fertilizers.

Other Uses of Pacific Natural organic fresh fish fertilizer

Of equal importance is the products' mainstream use in commercial agriculture for the following:

- as a pre-planting and time-at-planting soil food, conditioner and biostimulant (e.g. row crops, fruit trees, all new plantings/transplants, seeding)
- as an in-season soil food (e.g. row crops, shrubs/trees, runoff from foliar feeding)
- as an in-season foliar feed (e.g. turf/golf, grapes, hops, all berry crops, etc)

The product can be applied by any conventional method, and generally mixes well with other nutrient sources, allowing for co-application with other components of complete and crop-specific fertility programs.

For more information, please call us and/or visit our web site www.greatpacificbio.com and go to the **Fertilizer Information** page (a submenu of the soil and plant nutrition section).

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