

## Application Guidance for Pacific Gro Oceanic Hydrolysate

This is a highly bio-active product which works well in fertigation and by foliar spray, if applied with care. Stabilized with acid and double-screened at 150 mesh.

Produced from Ocean-caught fish (mostly salmon), shrimp and crab that are ground and enzymatically digested without addition of any heat or removal of any of the natural oils or proteins. It is a cold-processed hydrolysate that's made from fresh scraps (including guts, skin, bones and shell) collected from seafood processors. The low temperature process protects the amino acids, vitamins, and enzymes present in the raw material. The naturally occurring enzymes and vortex action in our breaking tanks digest the shells and fish bones into a fine colloidal suspension.

Pacific Gro is an organic source of a great range of nutrients. Fish oil is a preferred food source for soil microorganisms, particularly beneficial fungal species. Farmers notice a proliferation of soil life and restoration of a healthy fungal-bacterial balance.

Recommended usage rates vary greatly depending on the crop and many factors:

- Soil condition: e.g. organic matter content, health of the soil food web, balance of calcium, magnesium and potassium, and other macro- and micronutrients.
- Fertility program: e.g. is 'fish' the primary source of nutrients or a supplement? Is there a foliar program?
- Farming style and objectives: Is ground being regenerated? Transitioning to organic? What are the yield and crop quality goals?

Pacific Gro works very well when applied with microbial products and when applied as a foliar together with other inputs.

Post-harvest application can be very effective, especially with orchard and berry crops. Feed the soil biology and help the plant take in stores for next season!

Please consult with an agronomist, crop consultant, experienced farmer or other professional for specific guidance. The best general advice we can offer is to get a good soil analysis, address issues of unbalanced nutrients, and use Pacific Gro in a program that will increase organic matter content and yield higher brix produce.

**DISCLAIMER** Please consult with an agronomist, crop consultant or other professional for specific guidance. Pacific Gro Oceanic Hydrolysate is an approved input for organic farming and a natural product that promotes healthy soil biology. It is intended for use in combination with other fertility inputs. There are many variables to consider in farming; the farmer or customer assumes responsibility for use of these products in his/her conditions and practices, which are not controlled by and cannot be foreseen by Creative AG Products Inc. The buyer accepts and uses these products, recognizing that Creative AG Products Inc. does not accept responsibility or any liability for the use of its products, whether or not used according to application guidance.



Seafood for the Soil™

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**INSTRUCTIONS**

**Mix product well before use**, either by circulation pump or injecting air into tote shuttle tanks. Some settling of solids and separation of oil and water does occur. The product returns easily to a colloidal suspension upon mixing.

**Use up all product that has been diluted.** When pH exceeds 4.5 the biology gets active and will cause diluted product to expand. Fungal mycelia may grow in diluted product.

**This is a bio-active product. Flush drip lines well after use.** Thoroughly clean and rinse out any tanks before filling.

**Protect drip lines from clogging** by jar testing mixtures with other inputs and high pH irrigation water, and use a screen downstream of injection.

*Wash off with water any contact with skin.*

*Please refer to general guidance and disclaimer of liability on page 1.*

Dilution Rates by Type of Application	Dilution (parts water per part of product)
Soil drench, pre-planting and near established trees and shrubs	10:1
General use in season, including gardens and lawns (1/2 cup/gal)	30:1
Drip fertigation (1/2 to 2 oz./gal)	50:1 or more dilute
Foliar spray (1/2 to 1 oz./gal)	100 :1

Pacific Gro Application Guidance for Commercial Agriculture These quantities refer to the amount of Pacific Gro prior to dilution			Simpler Program
Various Vegetables Total use per year: 10 – 15 gallons per acre	Early season drench Transplanting Weekly drip Bi-weekly foliar	5 gallons/acre 1 gallon/acre 2 – 6 qt./acre per week 1 qt./acre every 2 weeks	3 to 5 gallons/acre, 3 times per year (1 – 2 cups per 1000 sq. feet, 3 times per year)
Berries Total use per year: 20 – 30 gallons per acre	Early season drench Weekly Drip Fruit Set Foliar Fruit fill foliar Post harvest foliar	3 – 5 gallons/acre 1 – 3 gallons/acre per wk. 2 - 3 quarts/acre 1 quarts/acre 2 qt./acre, 1 or 2 times	3 to 7 gallons/acre, 5 times per year, including once post-harvest. (1 – 2.5 cups per 1000 sq. feet, 4 times per year)
Tree Fruit Orchards Total use per year: 20 – 50 gallons per acre	Early season drench Weekly drip Weekly foliar during set Fruit-fill foliar Post-harvest foliar	5 – 10 gallons/acre 2 quarts/acre per week 2 quarts/acre per week 2 – 3 quarts/acre 2 – 4 quarts/acre	5 to 10 gallons/acre, 5 times per year, including once post-harvest. (1 – 2 cups per tree, split in 3 applications)
Vineyard Total use per year: 10 – 20 gallons per acre	Mid-April Early July Late August Post Harvest	5 gallons/acre 2.5 gallons/acre 2.5 gallons/acre 10 gallons/acre	
Corn, Soybeans, Wheat Total use per year: 3 – 5 gallons per acre	Pre-plant Flower fill foliar Seed finish foliar	3 gallons/acre 1 gallon/acre 2 – 4 quarts/acre	3 – 5 gallons/acre at planting
Potatoes Total use per year: 20 – 40 gallons per acre	Pre-plant Bi-weekly Foliar <u>Or</u> Weekly Drip	20 gallons/acre in furrow 3 – 5 gallons/acre	20 gallons/acre at planting
Onions, Carrots Total use per year: 20 – 30 gallons per acre	Pre-plant Foliar or Drip	15 - 20 gallons/acre in furrow 3 – 5 gallons/acre, 1 or 2 times	20 gallons/acre at planting