

Boron & Calcium Fertilizer Spray

Home-made Recipe

for Vegetables, Flowers, Fruits, Trees





Typically South Central Alaskan soils lack boron (B) and are low in calcium (Ca). These minerals are essential but deficient. Their lack inhibits other fertilizer minerals from fully functioning. This home-made liquid addresses these deficiencies. Use as a foliar or a drench application, or both at once.

Foliar = apply liquid to plant leaves (foliage) with sprayer or watering can.

Drench = soak the soil over the root zone at drip line of plants or trees.

Once you've mixed all the ingredients, apply immediately & use it all. Don't leave it sitting for days. Label and date everything!

Note—3 tsp = 1 Tbs. 4 Tbs = ¼ cup. 16 Tbs = cup 16 cups=1 gallon

Item	Per gallon of water	Per 3 gallons of water
Maxicrop Soluble Seaweed Powder	1 tsp	1 TBS 
Either Fish Emulsion 2-2-0.3 Such as Pacific Gro Oceanic Hydrolysate	¼ cup	¾ cup 
Or Fish Emulsion 5-1-1 Such as Alaska Fish Fertilizer 5-1-1	1 TBS	3 TBS 
Borax (for Boron)	¼ tsp	¾ tsp 
Calcium-liquid extract from egg shells (see separate recipe)	1 TBS	3 TBS
Either or both of these, if you happen to have them:		
Worm tea	3 cups max	4 cups max
Actively Aerated Compost Tea	2 cups max	4 cups max

- 1. Measure out one gallon of non-chlorinated water into a mixing container that allows you add more than one gallon, and has a wide opening so you can stir contents.** (You'll be pouring contents into your spray can or watering can after mixing all ingredients.)
- 2. Mix Maxicrop separately in a bit of water and aggressively stir until dissolved before adding to your gallon of water.**
- 3. Liquid fish (i.e. fish emulsion or hydrolysate): shake well, then measure the amount into your gallon of water.**
- 4. Mix Borax separately in a bit of water until thoroughly dissolved before adding to your gallon of water.**
- 5. Addition options if you have them: actively aerated compost tea &/or worm tea:** These measurements are approximations, not absolute like the others. It's based more on what you might have available at the time. The beneficial microbes & minerals in worm tea &/or compost tea will certainly hasten the benefits of your liquid fertilizer.
- 6. Stir very well. Strain and pour into your sprayer or watering can, diluted 1 part tea to 5 parts water.**

When & Where to Apply While I cannot make a specific recommended dosage & timing for your situation, this is the schedule I am following.

Vegetables & Flowers:

1st application: Drench seedlings before transplanting to garden.

2nd application: foliar & drench in garden during first week of August.

Fruit trees, shrubs, soft fruits:

1st application: foliar spray just after leaves open but before fruit development begins.

2nd application: Drench with this same formula in July.

Avoid 3rd applications so you do not cause excess boron which is toxic to plants. Do this same routine annually. Boron is leached out of soil by rain & irrigation waters. ---See next page please---

Spruce Tree Note

For a sick-looking **spruce** at a friend's house, I dowsed the following:

Make up 3 gallons of the above and drench around the drip line. Follow by watering well to deliver these nutrients down into root system.

Apply just once between June 1 and July 15.

Apparently, all our spruces are stressed and could benefit by one annual treatment.



~~~ If you follow this, I would love to hear from you!~~~

--What do you observe? --What changes do you notice?

--What difficulties did you have?

--If there is a scientist in you, try have a row with and half the row without. See what you observe.

--Ellen/Ellie

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