CLAIMS

1. A soil improver that improves fertility of soil, the soil improver having a dry formulation of organic ingredients, the soil improver comprising:

~~a nitrogen source;~~

a surfactant comprising from 1% to 6% of total weight of the organic ingredients of the dry formulation;

a volcanic ash comprising from 25% to 70% of total weight of the organic ingredients of the dry formulation;

a microbial growth nutrient comprising from 1% to 10% of total weight of the organic ingredients of the dry formulation;

~~a multi-mineral;~~

a microbial blend, wherein the~~said~~ microbial blend comprises~~:~~ at least one bacterium and~~;~~ at least one fungus, the microbial blend comprising up to 25% of total weight of the organic ingredients of the dry formulation; and

a chelator selected from a group consisting of humic acid, fulvic acid, and calcium lignosulfonate, the chelator comprising from 1% to 25% of total weight of the organic ingredients of the dry formulation;

wherein, when applied to a soil, the soil improver provides nutrients to a microbial population in the soil and increases the soil's microbial population thereby increasing a plant's uptake of nutrients that are otherwise available.

~~;~~

~~at least one mycorrhiza~~.

2. The soil improver of claim 1 wherein the microbial blend further comprises at least one mycorrhiza.

3. The soil improver of claim 1 further comprising a nitrogen source.

4. The soil improver of claim 3 wherein the nitrogen source further comprises an immediate release nitrogen source.

5. The soil improver of claim 4 wherein the soil improver comprises a slow release nitrogen source.

6. The soil improver of claim 5 wherein the slow release nitrogen source is selected from a group consisting of poultry blood meal, feather meal, and fish emulsion powder.

7. The soil improver of claim 1 wherein the surfactant is selected from a group consisting of yucca, sea weed, and calcium lignosulfonate.

8. The soil improver of claim 1 wherein the microbial growth nutrient is selected from a group consisting of sea weed, blood meal, feather meal, fish, humic acid, and fulvic acid.

9. The soil improver of claim 1 further comprising a nitrogen source, a chelator, and a microbial blend, wherein the soil improver has between 5 to 25% nitrogen

source, between 1 and 10% chelator, between 1 and 10% microbial growth nutrient, between 40 and 70% multi-mineral, and between 5 and 25% microbial blend.

~~2. The soil improver of claim 1 further comprising:~~

~~a chelator;~~

~~a microbial growth nutrient; and~~

~~a multi-chelated amino acid.~~

~~3. The soil improver of claim 1 wherein said surfactant comprises yucca.~~

~~4. The soil improver of claim 2 wherein said chelator comprises humic acid.~~

~~5. The soil improver of claim 2 wherein said nitrogen source comprises feather meal.~~

~~6. The soil improver of claim 2 wherein said microbial growth nutrient comprises sea weed.~~

~~7. The soil improver of claim 2 wherein said multi-mineral comprises ash.~~

~~8. The soil improver of claim 2 wherein said soil improver comprises between about 5 to about 25% nitrogen, between 1 and about 10% chelator, between 1 and about 10% microbial growth nutrient, between about 40 and about 70%~~

multi-mineral, and between about 5 and 25% microbial blend.

9. A method for a soil improver, said method comprising:

a) mixing a nitrogen source, a surfactant, a multi-mineral to form a dry mixture;

b) mixing a microbial blend, wherein said microbial blend comprises:

at least one bacterium;

at least one non-mycorrhizae fungus;

at least one mycorrhizae.

10. The method of claim 9 wherein said mixing of step a) further comprises mixing a chelator, a microbial growth nutrient, and a multi-chelated amino acid.

11. The method of claim 9 wherein said mixing of step a) comprises maintaining the moisture content of said dry mixture below 5%.

12. The method of claim 9 wherein said mixing of step b) is conducted below 100° F.

13. The method of claim 9 wherein said mixing of step a) comprises adding each ingredient separately.

14. A method for a soil improver, said method comprising:

a) mixing a microbial blend, wherein said microbial blend comprises:

at least one bacterium;

~~at least one non-mycorrhizae fungus;~~

~~at least one mycorrhizae.~~

~~b) mixing a nitrogen source, a surfactant, a multi-mineral to form a mixture.~~