

## Wholistic™ Field Spray Instructions

### Ultra Field Sprays™

For healthier honeybee hives, better flavors, balance, growth, yield, quality, disease and pest resistance and general plant health, apply the Yellow Label Summer-Fall or Green Label Winter-Spring Ultra Field Spray™ in the area surrounding your hives at a rate of 1000 ml. per acre or roughly 32 oz. per acre. 64 ounces treat about two acres. For best results, apply twice a year, once after December 22 and before June 21, the other after June 21 and before December 22.

Apply at full strength with the measured Big Blaster hand sprayer, one full squirt every 15' in a square pattern throughout the area. Or, by mechanical sprayer, mix with water, apply at a rate of 1000 ml/acre. Spray directly on the field and crop. Mix only with clean, unpolluted, pesticide free, nonchlorinated or dechlorinated water in a clean spray tank. Safe for honeybees, humans, all animals, birds, bats, butterflies, all plants and the environment.

### Fungus Interruptus™

To protect honeybees from unwanted fungi, spray on the outside of the hive after applying the Winter-Spring or Summer-Fall Field Sprays to the surrounding area. It is not necessary nor is it recommended that you spray the inside of the hive. It works right through the wood. Apply any time of the day or night, 2 to 4 squirts/spritzes per hive is all that is needed. For best results, apply every 2 - 4 weeks.

### Field Drying Formula™

Honeybees prefer dry areas. To help maintain a dry area around your hives, apply the Wholistic™ Field Drying Formula™ at a rate of one spritz every 10' toward the ground in a circle with a radius of 10' from each hive. Apply as necessary, no more than once every 3-7 days. Do not apply directly to your hives.

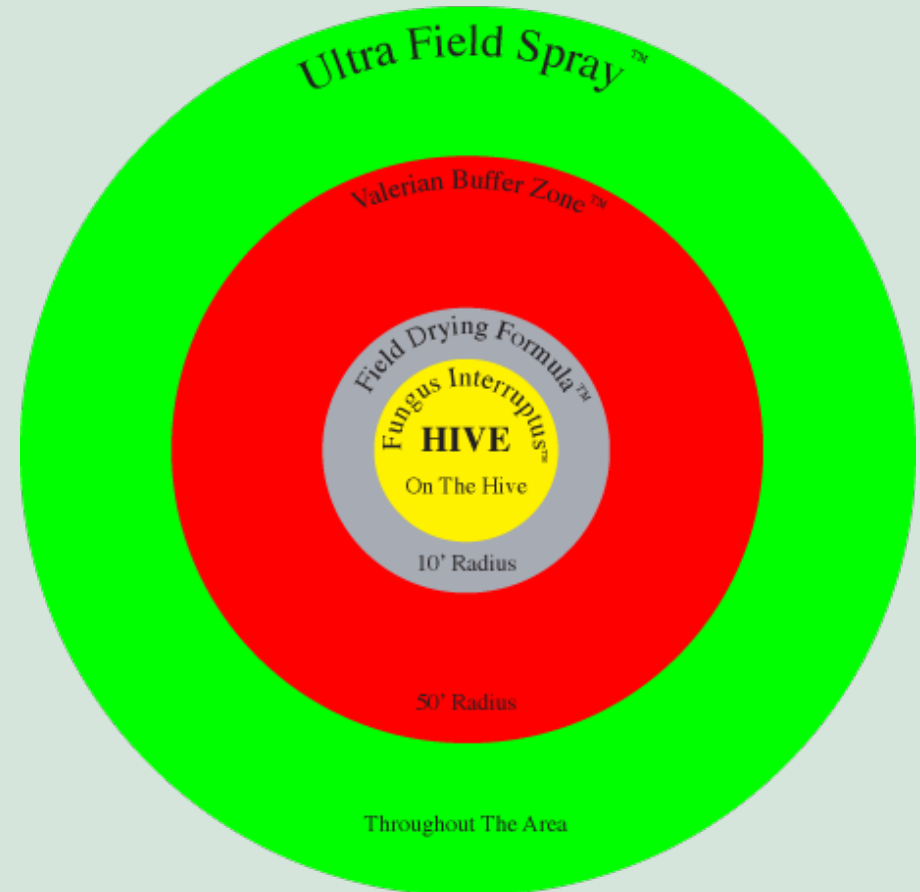
### Valerian Buffer Zone™

Valerian Buffer Zone™ (VB) brings the flowers immediately surrounding your hives into synchronization with the Forces of Nature in that area. By dealing with the end process of each plant, you are strengthening the flower, fruit and seed forces. These are the activities that most closely relate to the honeybee. VB creates a buffer zone around each hive that engages these forces, allowing the honeybees to live in a more comfortable home. This will help calm the hive and make bees more productive. Apply Valerian Buffer Zone™ to the inner part of a circle of 50' distance/radius from each hive, one spray every 10'. Always apply the Ultra Formula first, then the other three - SSFI, FD & VB, in that precise order.

### Bee Calming Hive Spray™

The Bee Calming Hive Spray™ should be applied anytime the beekeeper works around the hive and at least once a week during the summer, once every 2-3 weeks during the winter. Apply to the outside of the hive in the same manner as Fungus Interruptus™, one spray on one side and another on the other side, no more. More will make the bees excitable, less makes them calm.

## The CCD Solution Field Guide



### Sequential Spray Pattern

First, apply the appropriate Winter-Spring or Summer-Fall Ultra Field Spray™ using the Big Blaster hand sprayer in the area around your hive(s), one full spray every 15', in a square pattern around the entire area including the outside of your hive(s). Next, apply 2-4 sprays of Fungus Interruptus™ directly to the outside of the hive, not inside. Then measure about 10' from the hive(s) and create a circle. Walking around the perimeter of the circle, spray the Field Drying Formula™ every 10', a total of 10 sprays. Do the same with the Valerian Buffer Zone™ with a 50' radius, a total of 31-32 sprays applied to the circumference. Apply the Bee Calming Hive Spray™ to your bee hives whenever you are working with them or every 1-3 weeks.

## Wholistic™ Honeybee Science

Strictly speaking, **Colony Collapse Disorder (CCD)** is a **process**, not a disease. It begins with **Root Causes** that come from environmental pollutants and unnatural bee management practices that slowly weaken honeybee immune systems. It ends in a **Threshold Disease** caused by bacteria, viruses or some other mechanism that ultimately collapses the colony. CCD is not caused by a fungus. The collapse of a bee colony is a function of bee genetics. Fixing the **Root Causes** of CCD will prevent and cure CCD.

In order to overcome CCD, we must understand the way Nature **really** works. Then, we must take care of the **needs** of our honeybees and crops first and our farming and industrial needs second. When you do this, instead of putting our needs first and honeybees second, Nature and your honeybees will take care of you.

Disease is Nature's prime mechanism for sustaining Life. Diseases tell us what we are doing wrong. Killing disease organisms merely postpones death, a short-term solution. Eliminating the Root Cause brings a permanent solution. Death brings more death. Life brings more life. Surround your honeybees with life.

Attached to DNA genes are **epigenes** that turn on, off, or modify the behavior of DNA genes. Sources of epigenic contaminants are environmental pollutants, RNA, chemicals, poisons, waste products, etc. that the honeybee picks up over a lifetime. Only after a thorough study of the poisons and chemicals accumulating in honeybee bodies will the cause and effect of CCD be precisely shown. So far over 100 damaging chemicals have been identified in bees and the number constantly rises.

Conventional science explains **what** happens in Nature. Wholistic™ Agricultural Science explains **why** everything happens in nature and gives us the tools to manipulate the Forces that drive Nature. Nature is highly organized and very intelligent.

Of the **29 Laws of Nature**, the first five are: everything in Nature is beneficial; all organisms play specific predetermined roles; Nature sustains itself by eliminating weaklings; anytime mankind contacts Nature, he/she throws Nature out of balance; and when this happens, Nature provides the **opposite force** to rebalance the environment.

Of the **40 Wholistic™ Principles and Concepts**, four stand out: Nature is not sustainable, it is self-sustaining; biodiversity is explained by **biocomplexity**, the study of the roles in Nature; evolution teaches us that Nature is predictable in every way except timing; and natural, immutable forces and laws exist that define and propel all growth, activities, functions, mechanisms and the perpetuation of Life.

Fungi, bacteria, viruses and pests each have a role in Nature. Fungi recycle dead cells; bacteria push the evolution of organisms; viruses test the evolution of organisms; and pests remove weakling plants and animals thereby raising the overall health of the environment.

Nature employs activities such as seed germination, leaf growth, blooming and seed production to continue a species and four mechanisms - fungi, bacteria, viruses and pests - to maintain the balance and harmony necessary to sustain all life.

Focus on fixing the **Root Causes** and creating natural honeybee management practices. Wholistic™ Agricultural Science gives beekeepers and farmers a new, viable option to grow food without poisons, chemicals or GMOs that are Root Causes of CCD. The Wholistic™ Field **Sprays** have the ability to alter significantly the bees' environment and protect them from CCD.

## Quick Reference Guide For CCD Bee Management

Preventing and stopping CCD is a matter of recognizing that the Root Cause of CCD comes from environmental poisons and unnatural bee management practices. The more honeybees are exposed to stress, the weaker their immune systems become and the more likely the hive will collapse. Fix the Root Causes of CCD, then Nature will not activate a disease to kill off the colony. We offer these suggestions.

1. **Always** use all the Wholistic™ Field Sprays™ wherever your bees are located. The field sprays are safe for honeybees if used properly and proven to stop the growth of unwanted fungi, bacteria and viruses without killing anything.
2. Do not transport bees a long distance. Locate hives permanently in vegetable crops, orchards, vineyards and all farm fields to increase crop yields.
3. Set hives 24"-30", but no more than 42" above the ground, protected from north and west winds, on wood platforms without chemical preservatives.
4. Provide 500 to 1,000 sq ft native perennial, biennial and annual herbaceous flower garden per five acres of fields. Bees use herbaceous plants medicinally.
5. In the brood chambers, use two preformed cell plates in two frames, and flat, beeswax base material in the other 8. Use preformed cell frames in the supers only.
6. Hive design should mimic Nature. Make hives cylindrical, about 28" in diameter with the heights of supers based on the Golden Mean Proportions.
7. Feed bees honey with chamomile tea and sea minerals added to help prevent CCD and mites. Never feed bees artificial food, sucrose or high fructose corn syrup.
8. If a hive is healthy, use the queens from that hive. If not, import them from local healthy hives.
9. Paint hives neutral colors such as tan or off-white with nontoxic paint only.
10. Use Wholistic™ compost formulas and permanent or semi-permanent cover crops on all fields.
11. The elimination of pesticides, herbicides, fungicides, miticides, chemical fertilizers, poisons and genetically engineered crops and escaped GE rogue plants is the single greatest factor in restoring the bee population.
12. Avoid microwaves and EMF's wherever possible
13. Create as much biocomplexity in your fields surrounding your hives as possible.
14. Honeybees are pure love. Never underestimate the effect of your love for your bees and your love for Nature as key ingredients for saving the honeybee and agriculture. Without bees, there is no love. Without love, there is no Life.
15. Encourage researchers to investigate and map the epigene of the honeybee.
16. Encourage farmers to engage in a partnership with beekeepers and transporters to protect your honeybees.
17. Work politically and informatively to teach government agencies, industries and the media to do what they can to reduce those factors that kill your bees.

These are just a few suggestions. There are many more ideas that you will think of too. Remember, learn the true nature of Nature, then focus on the **NEEDS** of your honeybees first, then your needs second, and your bees will take care of you.