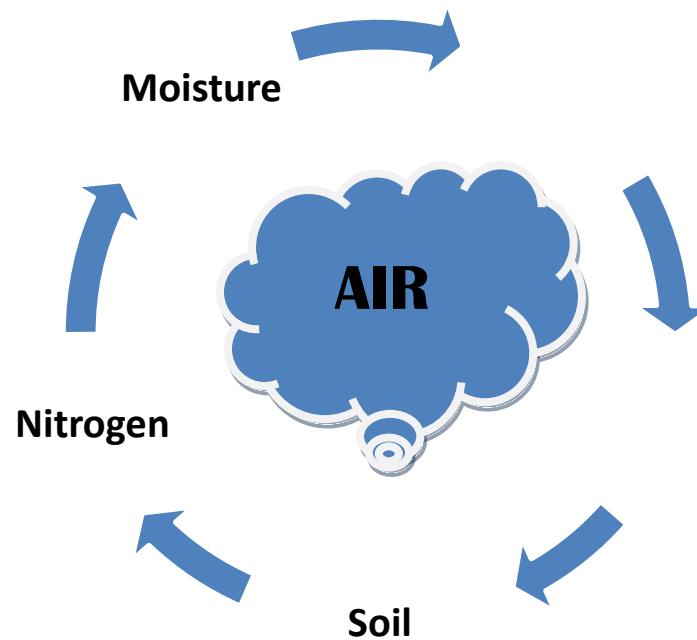


# CATIONIC EXCHANGE AND *BIOWASH*

## **Cationic (kat ī-'ä-nik) Exchange**

A cation is an ion with a positive electro-magnetic charge. **BioWash** is comprised of exceptionally tiny particles called "colloidal micelles". Each micelle carries a negative electro-magnetic charge that is capable of attracting, holding and exchanging positively charged particles (cations) of magnesium, calcium, carbon, trace minerals and other nutrients in a manner that allows roots to more easily absorb them. This phenomenon is called "cation exchange".



BioWash helps plants more efficiently absorb existing nutrients and moisture from the soil.

Dr. Craig Jones, a PhD research scientist with degrees in Bio-Chemistry, Bio-Physics and Bio-Molecular Physics believes that **BioWash** also actually enables plants to absorb moisture and nitrogen from the air.

Double the benefits!

**BIOWASH** is NOT a fertilizer. Its total phosphorous content is only .1% (*note the decimal point .... one tenth of one percent!*). It contains only .03% nitrogen and .003% potassium. So what is causing all the excitement? Why are thousands of small gardener and commercial farmers excitedly reporting increased growth and astounding yield increases? Why are they doubling, tripling and even quadrupling profits. What is causing increased BRIX (plant sugar) and freeze tolerance? Why are growers enjoying earlier to market produce and premium prices?

**THE SECRET IS THE PHENOMENAL STIMULATION OF THE ELECTRO-MAGNETIC ACTIVITY THAT *BIOWASH* CREATES IN THE ROOTS OF PLANTS. THE SECRET LIES IN WHAT SCIENTISTS CALL "CATIONIC EXCHANGE CAPACITY".**

## CATIONIC EXCHANGE AT WORK



Okra Seed Roots



Pea Seed Roots

Healthier, hardier roots systems mean healthier, more productive plants!

*BioWash works at the cellular level of roots, increasing their ability to more efficiently absorb moisture and nutrients from the surrounding soil. Increased absorption of available carbon, humus, compost trace minerals, etc increases the sugar content (BRIX) of the plant. BRIX acts to improve photosynthesis, resulting in healthier growth and more hardy resistance to disease and climate impacts.*



Mike Wallace of Island Botanicals, Pine Island Florida  
Note the difference in size of the **BioWashed** tree and roots on right  
and that of the non-treated tree on the left.





After treatment with **BioWash**, Mike Vaughan's mango yield soared from about 50 mangoes to over 800!

Mike Vaughan of Miami FL had an aged mango tree in his yard that was looking poor and with declining yield. Mike treated the tree with **BioWash** in January before buds appeared. The picture to the left was taken in February. The tree had so many blooms that people drove from the city to marvel. Mike's yield soared from an estimated 50mangoes the previous season to over 800 (see picture to the left, below)! The fruit was so heavy by May that he had to add support to the limbs. Mike said his mangoes were the sweetest and most blemish free ever.

His neighbor's tree (right below) had the same soil, same sun, same rain, same temperatures. It had very few mangoes that season.



Despite similar growing conditions, Mike's neighbor's tree had very few mangoes. The only difference? **BioWash**!



*Madeline Bohannon, Past President of the Ft Myers FL Tropical Fruit Growers Club, is a true BioWash believer. Her avocado tree, above, had been fruitless for 11 years following a devastating blight in 1998. In 2009 she BioWashed the tree. Following treatment the tree produced over 200 "pesticide free" avocados! Ms. Bohannon also raises orchids. The growth difference in her orchids after treating them with BioWash was astounding. See the results in the picture, below.*



1st Enviro Safety

*Tropical fruit growers are finding BioWash to be an amazing adjunct to their regular feeding programs. Through cationic exchange, BioWash strengthens the fruit trees, making them more disease resistant. Growers are experiencing increased yields, earlier to market harvests and improved fruit flavor due to the increased BRIX content. This all translates to improved profits.*

*BioWash is not an insecticide, however, it increases sugar production in plants (BRIX). This makes trees more insect resistant because some insects do not effectively digest plant sugar and they go elsewhere.*

*Increased BRIX also makes plants more resistant to cold, therefore acting as one more line of defense for growers.*

*\*Disclaimer: 1<sup>st</sup> Enviro Safety does not guarantee freeze prevention but growers are finding it to be an effective prevention aid*



Prior to treatment with BioWash, a tangerine tree in Ocala FL (above) had been producing only about 300-400 small, tart tangerines per season. Following treatment with BioWash the tree's yield soared to over 2000 sweet tangerines.

Heeding a freeze warning, Tracy sprayed her tree during the days prior to and impending freeze. The temperature actually dropped to 19 degrees Fahrenheit. This is about 8 degrees below that which we've found BioWash to be effective in resisting cold. The tree and fruit froze.

For unknown reasons, Tracy's teenage son sprayed the frozen tree the following morning with BioWash. Many of the tree's leaves and the fruit recovered.

Understandably, Tracy is a believer in the benefits of BioWash!

## MORE TESTIMONIALS!



An unexpected freeze hit San Luis Obispo California during the winter of 2011. The picture above is of J. Sumrall's strawberries at 7:00 am the morning of the freeze.

Ms. Sumrall sprayed her frozen strawberries with **BioWash** after taking the first picture. By 11:00 am the plants had revived, with no damage!

**ANOTHER HAPPY CUSTOMER!**



TEXAS RANCHER ALTON HOLT OAT FIELD

COMMERCIAL GROWERS ARE  
HAVING SIMILAR EXPERIENCES WITH  
THEIR CROPS

*A Washington State alfalfa grower enjoyed an extra 1500 pounds per acre from his alfalfa yields after applying BioWash*

*Nebraska Farmer Bob Treloar reported a 20% increase in his alfalfa yield after treatment with BioWash*

*In 2011 Texas experienced one of the worst droughts in the state's history. Rancher Alton Holt sprayed his oat crop with BioWash at the beginning of the season and then left for extended travel. Without rain, irrigation or fertilizer, Alton raised a bumper crop of oats.*

*Alton's neighbors' oat crops failed. They opened their fields to allow the cattle to graze the remnants.*

**THE ONLY DIFFERENCE?  
BIOWASH!**

## DROUGHT RESISTANT & HEALTHY



Alton Holt's *BioWashed* oats  
were triple the size of his  
neighbors' oats



Alton's oats also tested  
above average in protein,  
phosphorous & potassium  
content

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They also tested above average in protein, phosphorous & potassium.

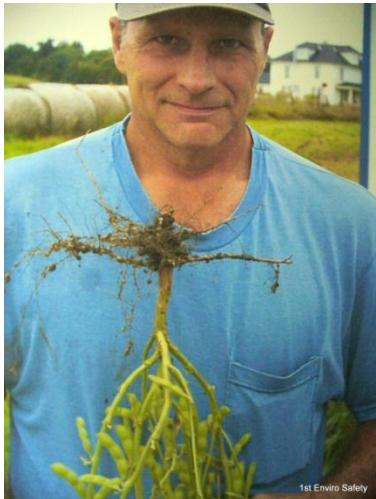
Another believer!



**HIGHER CATION  
EXCHANGE CAPACITY  
INCREASES YIELDS**

# RESULTS!!!

**BETTER CATION EXCHANGE  
TRIPLES NITROGEN NODULES IN SOY**



**AMAZING DIFFERENCE IN  
ROOT STOCK SIZES**

*FARMERS ARE NOT EASY TO IMPRESS..... BUT THESE GUYS ARE IMPRESSED!*

## **FORAGE!**

- *Increased & earlier growth, weight & yield*
- *Longer growing season*
- *Less need to purchase feed in winter months*
- ***MORE \$\$\$\$\$ IN YOUR POCKET!***



**Higher Yields  
Less Expense =**

**Higher Profits!!**



# SMALL FARMS



**LEFT:** Diseased tomato plants were purchased for testing the efficacy of *BioWash*

**RIGHT:** Treated tomato plants – 2 weeks after planting. There is no evidence of disease and blossoms are already beginning to emerge



# LARGE FARMS

## COMMERCIAL TOMATO AND PEPPER CROPS



## HYDROPONICS



**BIO WASH!**

# *!! GARDENS – GARDENS – GARDENS!!*



*Home Gardeners are having amazing results with BioWash.*

*Left to Right: Backyard garden in town, Corn that produced 4 ears per stalk. Below from left: Backyard radishes & a sweet potato patch in Ocala FL that produced 7 lb potatoes!*



***TESTIMONIAL AFTER TESTIMONIAL.... THE PLAUDITS CONTINUE TO COME IN.....***

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## FLOWERS, TREES & BERRIES

*Growers, small and large alike, are amazed at the effect of BioWash on flora and fruiting plants.*

*The pictures at right reflect some positive experiences of BioWash users. For the same reason that BioWash improves growth, stamina and health of commercial crops, it also works to speed up growth, improve color and taste and to make individual plants and trees thrive.*

*Through cationic exchange, our BioWash products help break up heavy minerals left in soil from repeated fertilizer application, promoting better oxygen flow within the roots therefore improved absorption of nutrients and water by the roots, stalks and leaves of the plant.*

*The result? Beautifully colored flowers, lush and productive trees and wonderful tasting fruit from increased plant BRIX production.*

**HIBISCUS PLANT – Bush grew to 5x5 – One stem had 5 buds and Gary Reid stopped counting at 200 buds on this plant**



**Orchid Comparison – M. Bohannon treated orchid on right with BioWash**



**Gary Scott's roses turned out beautifully after BioWashing his roses (below)**



**BioWash is creating a lot of excitement among fruit and berry growers. Right: Blueberry crops at Chataqua Farms responded to BioWash with amazingly large, sweet blueberries. Blackberries avocados, tangerines and mangoes..... All love BioWash**



## NICKEL SIZED BLUEBERRIES!



## LUSCIOUS BLACKBERRIES!



## INCREASED PAPAYA YIELD!



## TANGERINES GALORE!



**BioWash increases production of plant sugar (BRIX) in the plant.**

This increases sweetness of fruit while also providing an added measure of defense against insects.....

Because many insects cannot efficiently digest sugar, they simply look elsewhere for a meal. A win-win proposition for the grower!

**Golf Courses are big business. Greenkeepers spend millions of dollars each year to keep greens and fairways in attractive, playable condition. They're discovering BioWash as an effective turf stimulant. The pictures below are of a test area at Quail Hollow Golf Course in North Carolina. Treated areas had visible turf regeneration.**



**"If a plant has roots, BioWash will help it"**

.....Visiting Agronomist



# BIOWASH

## FEEDBACK RECEIVED ABOUT THIS AMAZING PRODUCT

-  "*BioWash will revolutionize agriculture as we know it*" – Dr. Craig Jones, PhD
-  "*BioWash unleashes the unlimited power of the sun*" – Former Asst Secretary of Agriculture
-  "*If it has roots and leaves, BioWash will help it*" – Visiting Agronomist

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ST JAMES CITY, FL 33956

[www.fertilizerboosters.com](http://www.fertilizerboosters.com)

From this website you can order products and watch our *BioWash* video