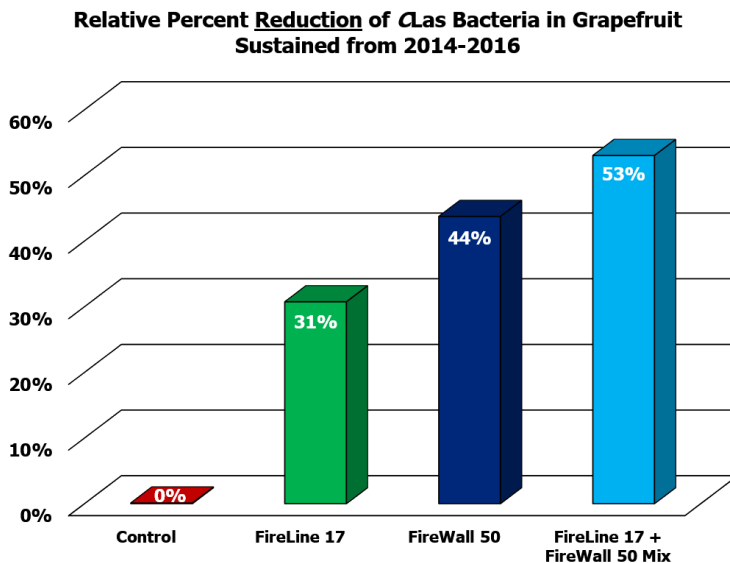




## FireLine™ 17 WP & FireWall™ 50 WP in Combination & Individually Significantly Reduce HLB Symptoms & Increase Yields in Grapefruit

### Technical Bulletin – No. 21

In multiple scientifically designed and managed commercial field trials located in Florida’s Indian River region, the combination mixture of FireLine™ 17 WP and FireWall™ 50 WP (full rates of each product), as well as each used individually, were applied to HLB-infected grapefruit trees. The objective of these trials was to evaluate the efficacy of these three treatments against ‘*Candidatus Liberibacter asiaticus*’ (CLas), the bacteria of ‘HLB’ or ‘greening’ in Florida citrus.



When examined over the 2-year trial duration from 2014-2016, the combination mix of FireLine™ 17 WP and FireWall™ 50 WP was the most efficacious treatment against HLB (see chart). In the study, CLas populations were significantly reduced by 53% with the combination mix, and by 44% by FireWall™ 50 WP alone, and by 31% by FireLine™ 17 WP alone.

More importantly, the combination mix of FireLine™ 17 WP and FireWall™ 50 WP resulted in a highly significant total fruit harvest increased weight at 45%, while FireLine™ 17 WP alone increased harvest weight by 31% and FireWall™ 50 WP alone by 13%. Additionally, the combination mix, resulted in significant increases in individual piece weight at 10% and juice weight at 12%.

While all of the treatments in these field trials demonstrated efficacy against HLB in grapefruit based upon bacterial titer, tree health metrics and yield increases, the FireLine™ 17 WP and FireWall™ 50 WP combination mix achieved a synergy not previously seen in trials. These results add viable and effective treatment options for grapefruit growers, particularly related to application timing, pre-harvest interval, and reduced application requirements.

For more detailed information about **FireLine™ 17 WP** and **FireWall 50 WP™** bactericides, please contact AgroSource Florida sales representative Bo Meador at (863) 673-0727. You can also email us at [sales@agrosource.net](mailto:sales@agrosource.net) or visit us on the web at [www.agrosource.net](http://www.agrosource.net)