

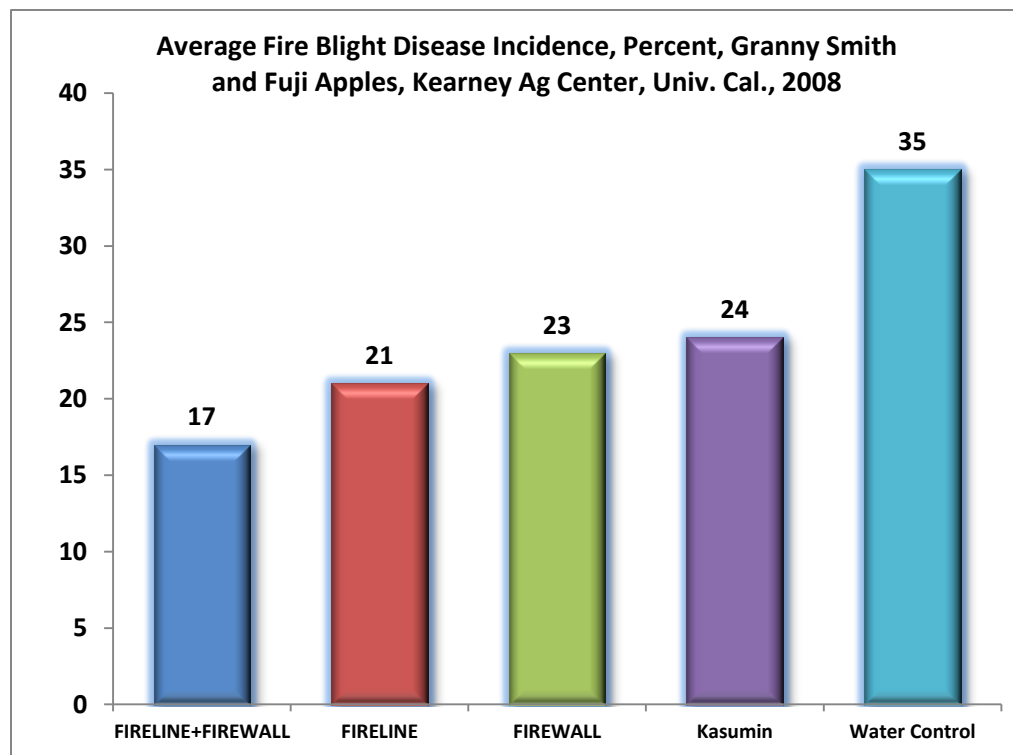


## FireLine™ and FireWall™ Tank Mix: A Powerful ‘One-Two’ Punch Against Fire Blight

### Technical Bulletin – No. 4

Tank mixing FireLine (oxytetracycline) and FireWall (streptomycin) at full rates of each provides a powerful “one-two” punch against fire blight (*Erwinia amylovora*). Yet while both FireLine and FireWall have proven their individual effectiveness against fire blight to growers and researchers for years, does a tank mix of both outperform either alone– and how does it compare to other competitive fire blight control products in their same class? Dr. Jim Adaskaveg, Professor of Plant Pathology at the University of California, Riverside conducted trials at the Kearney Ag Center on Granny Smith and Fuji apples in 2008. Inoculated replicated plots of these cultivars

were treated with two applications of a tank mix of FireLine and FireWall, two applications of just FireLine, and two applications of just FireWall. Another development product, Kasumin, was also applied twice at the same growth stages.<sup>1</sup> Each of these treatments significantly reduced disease incidence below that of the Water Control yet the FireWall+FireLine tank mix delivered the lowest disease incidence of all treatments tested (see chart).



The FireLine and FireWall tank mix combination is key to maintaining and prolonging the useful life of FireLine and FireWall because each works against fire blight using a different mode of action (FRAC Group 41 and FRAC Group 25, respectively).

Consult with your professional pest control advisor/consultant or area extension agent. Always read and follow label instructions. For more information and access to other Technical Bulletins, visit the AgroSource website at [www.agrosource.net](http://www.agrosource.net).

<sup>1</sup> Several other fire blight treatments were included in this trial. For purposes of clarity these are omitted here. Mention of Dr. Adaskaveg and Univ. Cal. Riverside does not constitute product endorsement. FireLine and FireWall are trademarks of AgroSource, Inc. Kasumin is a registered trademark of Arysta LifeScience.