



What's Buzzing

- Newsletter for Mosquito Control Professionals

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How SLOW Does A Droplet Evaporate?

Aqua-Reslin® is a remarkable patented anti-evaporant formulation using film-forming aqueous spray technology (FFAST™) that allows mosquito control operators to use water as a diluent for adulticide applications. FFAST formulations allow droplets to remain stable while drifting over the swath necessary to obtain effective coverage. The stability of a droplet can be determined by an evaporation coefficient (L value) study. The smaller L value, the slower evaporation, and consequently the more stable a droplet will be.

What does this mean to you?

When using water as diluent, if the water evaporates as in a typical EC formulation, the droplets get smaller and may not cover the desired distance, short changing your control efforts.

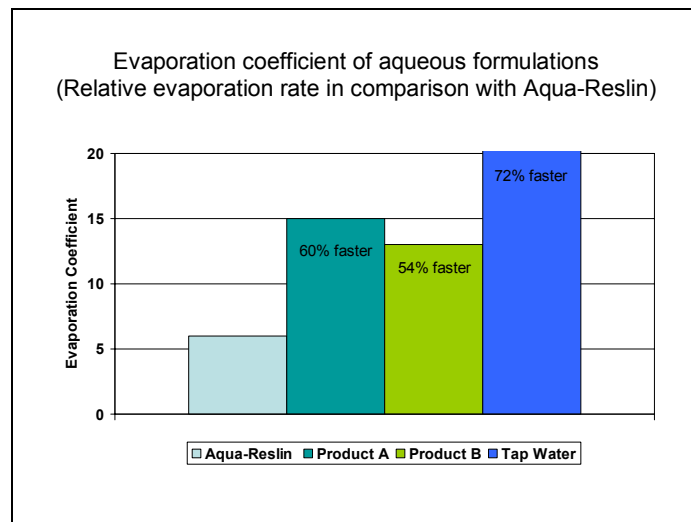
FFAST is designed to prevent this rapid loss of water to allow Aqua-Reslin to more through the treatment area without massive loss of mass through evaporation, effectively killing mosquitoes.

Recently, Dr. Tony White of the UK, one of FFAST patent holders, conducted a droplet evaporation rate study on three aqueous formulations that are currently available in the United State: 1) Aqua-Reslin, a FFAST formulation; 2) Product A, a water-based EC formulation; and 3) Product B, an oil-based EC formulation. Tap water was also used as a control

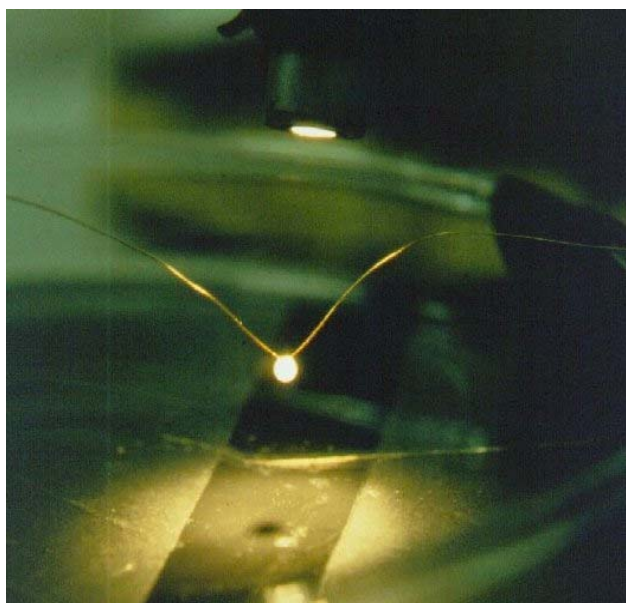
The study was conducted in a controlled environment with temperature at 75-79°F and relative humidity at 30-35%. Droplets were suspended on a wire and viewed through a microscope with a closed circuit television camera attached. Droplet diameter changes were recorded over time and L values were calculated.

Results

Data showed Aqua-Reslin with FFAST formulation has the lowest L value in the study, indicating that Aqua-Reslin provides the best evaporation retardation among the products tested.



Aqua-Reslin droplet evaporates at a significantly slower rate than any conventional EC formulation.



Aqua-Reslin®



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