



What's Buzzing

- A Newsletter for Mosquito Control Professionals

Volume 1
Issue 3
Date October 3, 2005

Drift vs. Deposit

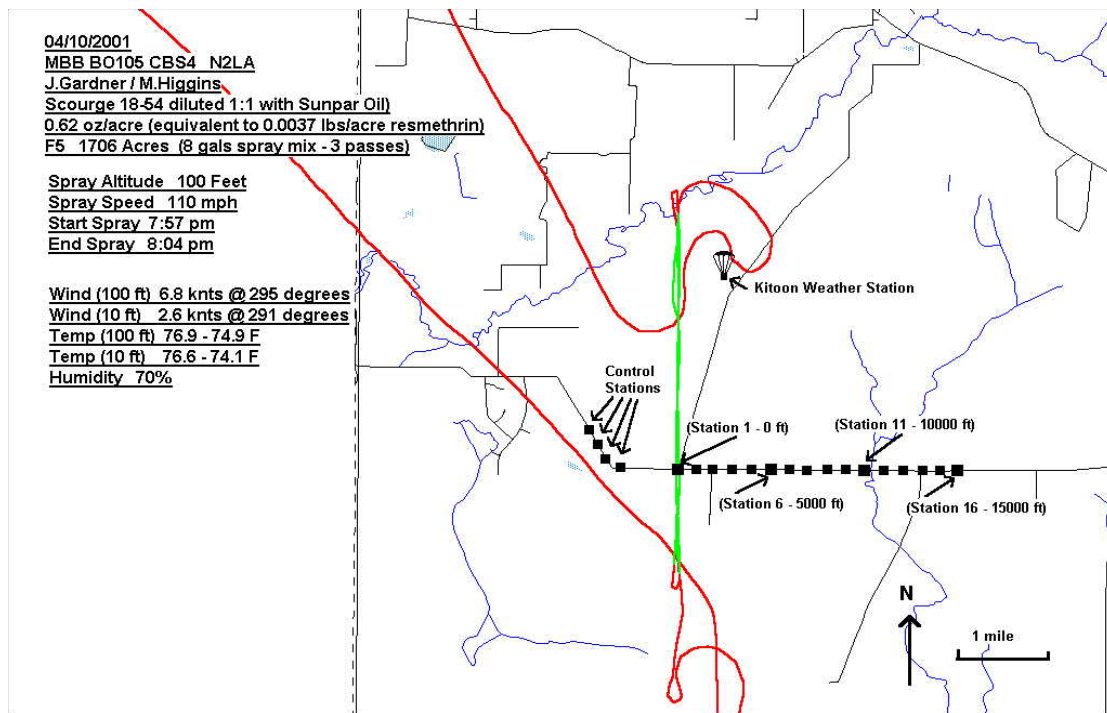
Scourge® operational aerial trial in Manatee County, Florida

Modern application equipment used in mosquito control is capable of producing ultra low volume (ULV) spray clouds with droplet sizes of MMD or VMD in a range of 10 to 60 microns. The unique droplet sizes increase drift capability and impaction efficiency. However, little has been known about how much active ingredient was in the air vs. amount deposited on the ground.

A Scourge operational aerial trial was conducted in Manatee County, Florida, in 2001. Sampling stations were located along a long straight road in open rural farming land. Scourge was diluted 1 to 1 in ULV oil and applied at 0.62 ounces/acre (0.0037 pound a.i./acre).



Meteorological data during the spraying/sampling period was recorded both at flight altitude with a kiteon and at ground level with a weather station.



Detailed trial map and parameters

Scourge®  BACKED by BAYER™





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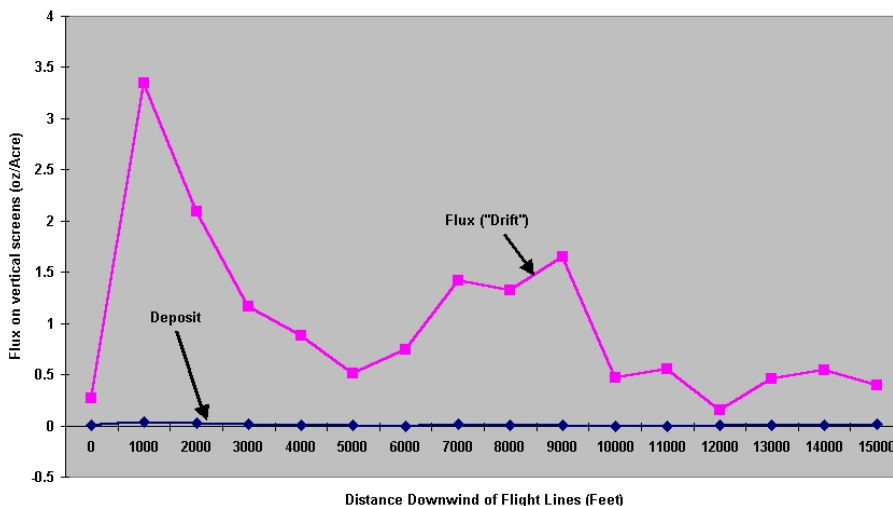
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The study revealed: 1) There was a strong correlation between drift and mortality, good control was achieved against caged mosquitoes 2) The amount of resmethrin deposited was significantly lower than drift data collected at the same sampling site, with the drift-to-deposit ratio approximately 100-to-1 3) The highest resmethrin deposit collected was 0.00025 pound/acre which was significantly lower than the application rate of 0.0037 pound/acre.

Data provided by Mark Latham, Director, Manatee County Mosquito Control District, Florida.

04/10/2001 - Comparison of Flux Vs Deposit from the application of a Scourge/Oil mix through a High Pressure System from a helicopter flying at 100 feet in altitude, Myakka, Manatee County, FL



04/10/2001 - Comparison of material Flux and caged mosquito mortality downwind of 3 passes of a helicopter applying a scourge 18-54/oil mix (1:1 ratio) through a High Pressure System at 100 feet in altitude, Myakka, Manatee County, FL

