

Material and Equipment Resource Guide for Ground and Aerial Field Cage Trials

This resource provides recommended guidance for sourcing materials needed to conduct ultra-low volume (ULV) ground or aerial field cage trials.

Equipment	Supplier / Source	Notes
Mosquitoes and Handling Tools		
Lab-reared susceptible mosquito strains	IR WG Resource bei Resources Benzon Research	
Mouth aspirator	Bug Dorm Ecology Supplies John W. Hock Company	
Insectary Cages	BugDorm Ecology Supplies	Cages for rearing mosquitoes (not for use in the field)
Spray and Calibration Tools		
ULV Sprayer	Azelis Clarke	Clarke guidance on how to maintain sprayer equipment
Insecticides		
Formulated product	Azelis Central Life Sciences	

	Clarke Target Specialty Products Valent BioSciences Veseris	
Mosquito Field Cages		
Tambourine-style cages	Custom-built	Townsen and Natvig 1973. Must be attached to tripod in an appropriate manner so cages orient to the wind
Manatee County cages	Custom-built	Williams, K. 2018.
Sampling Stations		
Tripods	Amazon Dolica	
Cross bar	Custom-built	Built using stainless steel flat bars and bolts and wingnuts to secure into an X shape
Wind vane	Custom-built	Clarke guidance on weather vanes Vessey et al. 2007 Wind Vane Design

Magnesium-Oxide coated slides	John W. Hock Company	Use with water-based formulations. Not reusable.
Teflon-coated slides	John W. Hock Company	Use with oil-based formulations. Reusable.
Rods	John W. Hock Company Central UAS Technologies	
Impingers	John W. Hock Company Central UAS Technologies	
Droplet Analysis		
DropVision	Central UAS Technologies	
ADrop	Valent BioSciences	
Cage Placement Equipment		
Markers (e.g., survey flag, stake)	Grainger	
Measuring wheel	Uline	
GPS-device	Amazon	Can be used instead of a measuring wheel
Weather meter	Kestrel Instruments	
PPE		
Gloves	Lab or safety supplier	
Headlamps	Amazon	

Hi-Vis Vests	Amazon	
Permethrin	Sawyer	For treating fieldwork clothes