

## Control in Modern Settings

Until now, there have been few options for the control of the flocks of birds that invade a vineyard. Many gimmicks have been promoted, proven as failures, and discarded. The costs of netting, in materials and labor, is excessive. Nuisance bird populations and problems continue to grow.

Many man-made environments provide support for birds' behavior. Birds are stimulated to claim a structure because it physically fits their needs. I-beams or girders in industrial sites, power stations or architectural features in buildings, groupings of trees in a landscape: all these provide convenient perches for large numbers of birds. Another motivation for birds to roost is heat generation. Whether a transformer, a heating-cooling unit, or a whole generating plant or refinery, the warmth produced draws birds, particularly in the cool seasons. Containment ponds are an ideal habitat for waterfowl. Airfields simulate prairies and offer birds long unobstructed views to be safe from predators. Landfills and trash containers offer a smorgasbord daily. It is clear that the birds will stay as long as man-made environments match a bird species habitat requirement.

Because each site is unique in need (by geography, by climate, by function, and by the number and species of birds present), we provide goal-oriented consultation to clients, and we offer the technologies and procedures to match the requirements of each site. MA aerosols are environmentally benign and risk-free to the applicator and non-target animals when properly applied.



**FLOCK FIGHTERS** U S A

Flock Fighters USA has expelled more birds using Fog Force than any other applicator. Please call us if you have a question regarding YOUR site.

Flock Fighters USA also supplies more product and equipment than any other supplier. We provide the training and support necessary to make you successful in chemical bird aversion.

*This publication is for promotional purposes only and is not to be considered instructional material.*

*Please consult product labels for further clarification and for specific instructions.*

© Flock Fighters USA 2009



**FLOCK FIGHTERS**  
U S A

*"the nation's leader in chemical bird aversion"*

**P.O. Box 6553 \* Fort Wayne, Indiana \* 46896-6553**

**Off: (260) 456-0982 \* Toll-Free (800) 489-6651**

**Fax: (260) 744-7827**

**E-mail: [info@flockfighters.com](mailto:info@flockfighters.com)**

**[www.flockfighters.com](http://www.flockfighters.com)**

# MA in Bird Aversion

*The Nation's Leader in Bird Aversion*

## How MA Works:

**MA**'s method for bird control is a pain stimulus in the trigeminal nerves. In birds, these nerves exist in their throats and the mucus membranes of the beak and eyes. Almost all animals have these nerves, yet only birds have a negative response to the **MA**. Birds "feel" **MA** as pain, while mammals, including humans, sense **MA** as a grape scent.

Birds inhaling **MA** aerosols respond to the discomfort immediately, with two important results:

They evacuate the location without delay. Nuisance birds are cleared from a site any time **MA** is introduced. It works on any bird; no immunity or resistance has been observed.

Target birds begin to associate the pain to the site. They are trained, with multiple applications, that the **site** is painful and they seek a new location.

**MA** aerosols are environmentally responsible. **MA**'s greatest weakness, its lack of residuals, is also its greatest strength; it expels existing target birds immediately, and then disappears, allowing non-target birds to return. The EPA has classified it as a naturally occurring flavorant, and **MA** has been declared GRAS (Generally Regarded as Safe) by the FDA: consequently, there are no reentry or harvest restrictions in the work zone. **MA** is benign when applied properly.

## How MA Aerosols are Made:

**MA** can be atomized with both hot and cold aerosol production. Both processes present the active ingredient, **MA**, in very small droplets (5-25 microns). Both float along air currents affecting any birds downwind. It is necessary for birds to inhale only extremely small amounts, as low as 20ppm, to receive the discomfort stimulus.

Thermal (hot) fogging uses heat to flash-evaporate the product into a cloud (similar to burning scented candles or incense sticks to release the fragrance). When delivered this way, **MA** is usually seen as a white cloud, consisting predominantly of **MA** and water vapor. The heat-produced plume has the capacity to rise and spread quickly, filling structures, with or without air currents. Thermal fogging is the technology of choice to reach above trees, tall buildings, or rafters.

Misting (cold) uses large amounts of air to create an invisible **MA** plume (similar to deodorant and hair spray products). With no energy other than the force of air, it is more restricted by weather and stays more horizontal to the release point. There is no chemical change of the product. Misting is particularly useful when controlling waterfowl or when the desire is to keep public display to a minimum.

At sites where only roosting (resting) behavior needs control, four applications are all that is normally needed. Prolonged and more consistent stimulus is required, however, on locations where feeding takes place. Nesting birds should not be treated with **MA** aerosols, but if a treatment cloud drifts into a nesting area, there will be no prolonged effects on parents or nestlings.

## About Flock Fighters USA:

### **FLOCK FIGHTERS** USA

is experienced in the application of all Methyl Anthranilate (**MA**) products: we have expelled more birds than any other applicator. We also supply more product and equipment than any other supplier.

### **FLOCK FIGHTERS** USA

recognizes that each site is unique in need. We administer technologies and procedures to match the requirements of each site and species of birds.

### **FLOCK FIGHTERS** USA

will implement a system specifically designed for the requirements of your site. If you would like to engineer your own system, we will provide you with the training and support necessary to help you expel your nuisance birds.

### **FLOCK FIGHTERS** USA

continues to lead the way in aerosol bird aversion through the development and utilization of new technologies.

### **FLOCK FIGHTERS** USA

takes seriously our personal connection with our clients. We are proud when our assistance results in their satisfaction: each client's success is our own, as well. As experienced applicators, we are able to assist with any problems that may occur along the way. We are dedicated to the success of our clients, and we therefore provide all the necessary support in the expulsion of your nuisance birds.