

# Taming The Torment of Stomoxy Fly (Stable Fly)

Asif Iqbal<sup>1</sup>, Abdul Rehman1\*, Haroon Ahmad<sup>1</sup>, Muhammad Ahmad<sup>1</sup>

1. Riphah International University, Lahore, Pakistan.

\*Corresponding Author: abdulrehman957372@gmail.com

# **ABSTRACT**

Adult flies of Stomoxy relay on the blood of vertebrate host blood for their production and reproduction. Larvae of this fly propagate in waste garbage and manure etc. By using proper techniques, we can control on their larvae. Residual insect killers can be helpful to control this parasite. Proper use of modified traps plays an important role in controlling the production of stable flies.

#### Introduction:

Stomoxys calcitrans also known as stable fly, biting house fly, dog fly. Unlike most members of the family Muscidae, Stable flies are tiny, biting insects that seem to love bothering humans and animals. They usually hang around places with old and waste, like manure and straw. Identifying features of stable flies include their dark, grayish color and the distinct checkerboard pattern on their abdomen. Their mouthparts are adapted for piercing the skin and sucking blood, making them efficient blood-feeding insects. Unlike many other fly species, stable flies prefer to feed during the daylight hours, adding to their nuisance value. (7)

#### EPIDEMOLOGY OF STABLE FLIES

Mostly they are common in areas where livestock and agricultural activities are performed. They are commonly found in horses stables that's why they are also called stable fly. They are known to be aggressive biters, causing discomfort to their hosts. Primarily feed on the blood of mammals like livestock, poultry, and occasionally humans. (3)

Manure is a crucial breeding substrate, and they are often associated with livestock operations. Stable flies mostly breed in decaying organic matter, such as spoiled silage, rotting hay, spoiled grass, and other types of decomposing vegetation. This place can provide good breeding habitat for the growth and production of fly larvae (2).

#### **PREVELENCE**

The prevalence of stable flies varies depending on the location and time of year. In general, stable flies are more common in warm, humid climates, and their populations tend to peak in the summer months. (6)

In Pakistan, the prevalence of stable flies is also high, particularly in areas with large livestock populations. A study published in the journal Pakistan Veterinary Journal found that the prevalence of stable flies in dairy farms in Punjab, Pakistan, was 65%.

The prevalence of these flies has good impact on human and animal health. Stable flies can transmit a number of diseases, including anthrax, brucellosis, etc. In animals, stable fly bites can cause skin irritation, anemia, and weight loss. In humans, stable fly bites can cause skin infections and allergic reactions (8).

### CONTROL

REGULAR CLEANING Keep the surroundings clean. Get rid of trash and spilled food. This helps take away the places where stable flies like to lay their eggs. (8)

## CONTROL BY NATURAL ENEMIES Bugs to fight stable flies

We may use wasps that lay eggs on stable fly babies, which can help control their numbers naturally.

TAKE CARE OF ANIMAL AREAS

Published on: 1 December 2023

- 3. USE OF INSECTICIDES Use bug sprays made to kill stable flies (As a last option). Not recommended normally
- 4. TARGETING STABLE FLIES AREA These sites should be targeted during warm afternoon with low pressure or mist blower sprayers.
- FLY TRAPS These traps where flies are a problem can really help. They attract and catch stable flies.

LONG TERM STRATEGIES Animal Husbandry Practices: Livestock management guides, veterinary publications should be preferred.

- Kaufman, P. E., & Geden, C. J. (2009). Management of Stable Flies in Confined Cattle Feeding
- Rauman, F. E., & Geuen, C. J. (2009). Management of Stable Piles in Confined Cattle Feeding Facilities. University of Florida IFAS Extension.

  Campbell, J. B., Skoda, S. R., & Berkebile, D. R. (2001). Behavioral responses of stable flies
- Campbell, J. B., Skoda, S. K., & Berkebile, D. R. (2001). Benavioral responses of stable lines (Diptera: Muscidae) to cattle odor. Journal of Economic Entomology, 94(1), 82-87. BROC E A.B. (1988). A n improve d alsynite trap for stable flies, Stomoxys calcitrans (Diptera: Muscidae). J. med. Entomol., 25, 406-409. BRUC E W.N. & DECKE R G. C. (1958). The relationship of stable fly abundanc e to milk [3]
- production in dairy cattle. J. econ. Entomol., 51, 269-274.
- CAMPBEL L J.B. (1976). Effect of horn fly control on cows J. econ. Entomol., 69, 711-712. CILEK J.E. & GREEN E G. L. (1994). - Stable fly (Diptera Muscidae) insecticide resistan cattle feedlots. J. econ. Entomol., 87, 275-279.

- FOI L L.D., FOI L C.S., FRENC H D.D., KLE I T.R. & MILLE R R.I. (1990). The role of horn fly feeding and the managemen t of seasonal equine ventral midline dermatitis. Equine Pract., 12, 6-14
- GREEN E.G., L., & BROC E.A., B. (1985). Contro I of stable flies with ear tags and dve GREEN E G. L. & BROC E A. B. (1985). - Contro 1 of stable f hes with ear t tags and dye distribution on feedlot cattle from ear t tags. In 1985 Cattle Feeders' Day, Report of Progress No. 474. Kansas Agricultural Experiment Station, Manhattan, Kansas, 49-56.

  HAL L R.D., THOMA S G. D. & MORGA N C.E. (1982). - Stable fly, Stomoxys calcitrans (L.), breeding in large roun d hay bales: initial associations (Diptera: Muscidae). J. Kansas
- Entomol. Soc., 55, 617-620.