

## MAKE CLARIFLY® PRODUCTS PART OF AN INTEGRATED PEST MANAGEMENT (IPM) PROGRAM

ClariFly® Products are even more effective as part of an IPM program. Practicing good sanitation, maintaining building repairs and utilizing baits and traps such as those in the Starbar® line of products, in conjunction with ClariFly® Larvicide & ClariFly® Add-Pack can significantly decrease fly populations throughout a cattle operation.

Fly free cattle are comfortable cattle. They stay on feed and are more productive. Adding ClariFly® Larvicide to feed as part of an IPM program can actually increase your operation's bottom line.

For more information, contact your local feed dealer, call 1-800-347-8272 or visit [www.CentralFlyControl.com](http://www.CentralFlyControl.com).



Always read and follow label directions. ClariFly, ClariFly Larvicide with design and Starbar are registered trademarks of Wellmark International. Central Life Sciences with design is a registered trademark of Central Garden & Pet Company.  
©2013, 2017 Wellmark International. CTL 17-029

## PRODUCT OVERVIEW



## GET SEASON-LONG FLY CONTROL WITH CLARIFLY® LARVICIDE

ClariFly® Larvicide is a feed supplement that prevents house flies, stable flies, face flies and horn flies from maturing into breeding, biting, disease-carrying adults. Mixed into cattle feed, ClariFly® Larvicide works by passing through the digestive system and into the manure where flies breed.

## MILK THE MOST OUT OF CALF FLY CONTROL WITH CLARIFLY® ADD-PACK

Available in 25-lb bags, ClariFly® Add-Pack in whole milk and milk replacer can help reduce fly populations in calf environments. It's fly control that starts with your calves to benefit your whole operation.



## SPRING INTO ACTION WITH CLARIFLY® PRODUCTS

Start using ClariFly® Larvicide & ClariFly® Add-Pack in your feed regimen early in the spring before flies begin to appear. Continue ClariFly® products through the summer and into the fall, until cold weather reduces or ends fly activity.

## FEEDING LEVELS

To control manure-breeding flies, all cattle on the premises need to consume adequate quantities of ClariFly® Larvicide every day. For cows, the feeding level for this product is 0.10 mg of active ingredient per kg of body weight per day. For calf feeding levels see below.

| Calf dosage of ClariFly® Add-Pack should equal 1 tsp per 120 lbs of body weight per day or 0.1 oz per 100 lbs. Use this chart to mix bulk proportions for multiple calves. | AVG. CALF WT. (LBS) | AMOUNT OF CLARIFLY® ADD-PACK PER DAY: |           |           |           |           |            |
|--|---------------------|---------------------------------------|-----------|-----------|-----------|-----------|------------|
|  |                     | 5 CALVES                              | 10 CALVES | 20 CALVES | 40 CALVES | 80 CALVES | 100 CALVES |
| 75   | 1 TBS               | 2 TBS                                 | ¼ C       | ½ C       | 1 C       | 1¼ C      |            |
| 100  | 4 tsp               | 8 tsp                                 | ⅓ C       | ⅔ C       | 1⅓ C      | 1⅔ C      |            |
| 150  | 2 TBS               | ¼ C                                   | ½ C       | 1 C       | 2 C       | 2½ C      |            |
| 200  | 8 tsp               | ⅓ C                                   | ⅔ C       | 1⅓ C      | 2⅔ C      | 3⅓ C      |            |

# FIGHT THE FLIES THAT CAUSE YOUR CATTLE DISCOMFORT

## THE HOUSE FLY



House flies have been implicated in the transmission of 65 disease organisms with populations that can burst out of control in a short period of time.

## THE STABLE FLY



The stable fly has one of the most painful bites of any bloodsucking insect and feeds mainly on the legs and flanks of cattle.

## THE FACE FLY



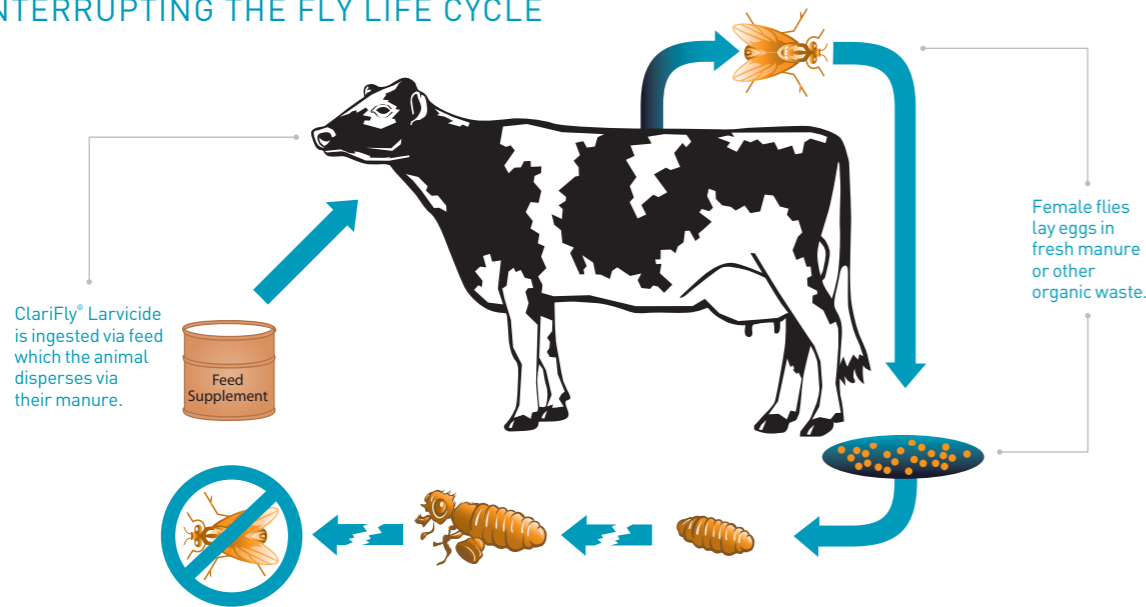
In addition to causing tissue damage with their rough spiny mouthparts, face flies spread diseases of the eye because they are constantly feeding on the fluid.

## THE HORN FLY



Horn flies are bloodsucking parasites that can be responsible for reduced weight gain, decreased feed efficiency and decreased milk yields.

## INTERRUPTING THE FLY LIFE CYCLE



Eggs will hatch into larvae that will feed and attempt to undergo 3 larval instars. ClariFly® Larvicide breaks the life cycle of flies developing in treated manure by not allowing the larvae to successfully molt from one instar to the next.

# LAB AND FIELD STUDIES

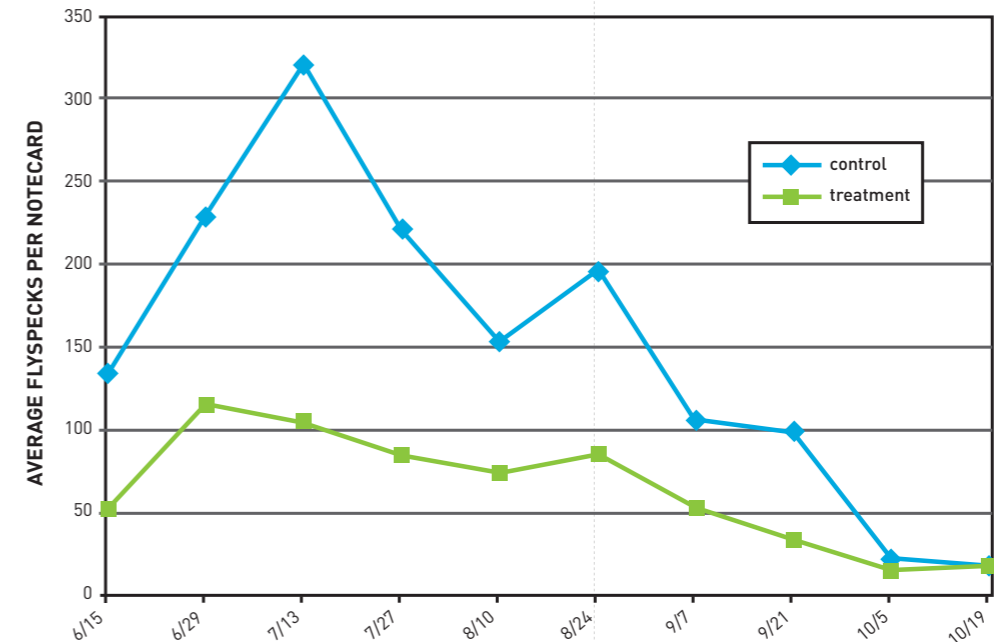
## KANSAS STATE UNIVERSITY STUDY

In 2002, Kansas State University fed ClariFly® Larvicide to cattle at a rate of 0.10 mg/kg per day, in a controlled experiment and evaluated the efficacy of this product to control the two most prominent fly pest species found on dairy operations, the house fly and the stable fly. On 27 out of 32 test days, fly emergence was reduced by greater than 80%, demonstrating that diflubenzuron effectively inhibits the development of both fly species in manure from treated cattle.

## MINER INSTITUTE STUDY

During the summer of 2008, a study was conducted to determine the effectiveness of ClariFly® Larvicide on fly populations. The study compared six dairy farms that included ClariFly® Larvicide in feeds to six dairy farms using conventional fly control methods.

The study showed a statistically significant reduction in flyspeck counts of the herds using ClariFly® Larvicide, as compared to herds using the conventional methods of spraying and baiting. While not evaluated in this study, it would be expected that herds using “no fly control” practices would show a remarkably higher number of fly counts.



Average flyspecks per speck per notecard in cow housing by experimental period for control and treated dairy farms using only post experiment calf blocking. (Treatment effect was P = 0.490. Period effect was P = 0.0005. Treatment by period interaction was P = 0.139.)