

# NEGATIVE EFFECTS OF HORN FLIES ON CATTLE



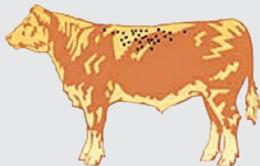
- Adult flies take 20-40 blood meals per day -- cattle can lose up to a gallon of blood
- Heavy infestations can result in loss of 0.5 lb of flesh per day!
- Milk production may be reduced 10% to 20%
- Horn flies spread diseases such as mastitis and anaplasmosis
- Calf weight gain can be reduced 0.2 to 0.4 lbs/head/day

## ECONOMIC THRESHOLD

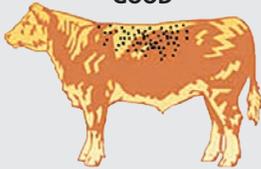
### > How Many is Too Many?

- 1,000 – 4,000 flies per cow are common at peak times.
- University data says 200 flies per beef cow is the economic threshold.

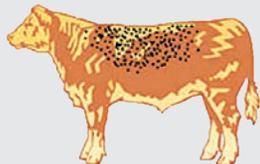
EXCELLENT



GOOD



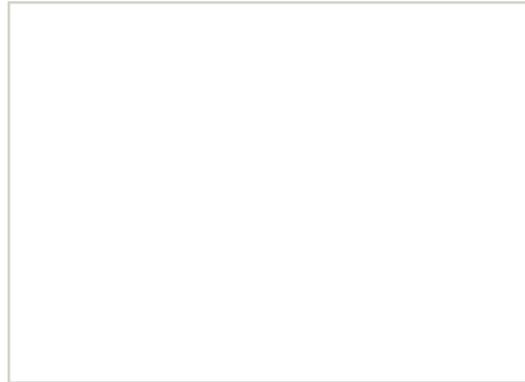
AVERAGE TO BELOW



UNACCEPTABLE

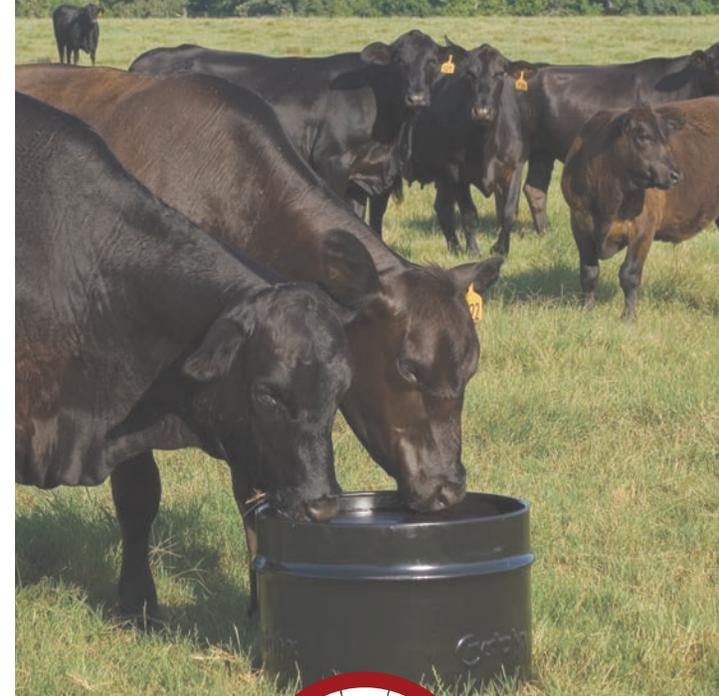


Ask for CRYSTALYX® Supplements at your local dealer:



Mankato, MN 56001  
1.800.727.2502  
Crystallyx.com

W90163  
03/16



Uniform consumption 24/7, across the entire herd, for maximum control of house flies, horn flies, face flies and stable flies.

**IGR MAX™**      **IGR PRO™**

**Mineral-lyx®** with **ClariFly**

# PRODUCTIVE, FLY-FREE CATTLE STARTS HERE



Altosid® IGR is an Insect Growth Regulator (IGR)

that passes through the animal and into the manure, where horn flies lay their eggs. It breaks the horn fly life cycle by preventing pupae from developing into biting adult flies.



ClariFly® Larvicide prevents adult house flies, stable flies, face flies, and horn flies

from developing in and emerging from the manure of treated cattle. ClariFly® interrupts the fly life cycle by interfering with the molting process. Larvae die before they can become breeding adult flies.

## WHEN TO BEGIN APPLICATION

Begin feeding ClariFly® or Altosid® IGR early in the spring before flies begin to appear, and continue feeding through the summer and into the fall until cold weather reduces or ends fly activity. The actual feeding period will depend on the regional climate.



Altosid® and ClariFly® are registered trademarks of Welmark International.

TYPICAL NUTRIENT ANALYSIS	IGR MAX™	IGR PRO™	Mineral-lyx® with ClariFly
Crude Protein, min	—	18.0%	4.0%
Crude Fat, min	3.0%	3.0%	3.0%
Crude Fiber, max	3.0%	3.0%	3.0%
Calcium (Ca), min	5.0%	1.0%	3.5%
Calcium (Ca), max	6.0%	1.5%	4.5%
Phosphorus (P), min	5.0%	1.0%	4.0%
Salt (NaCl)	None Added	None Added	None Added
Magnesium (Mg), min	5.0%	1.0%	3.0%
Cobalt (Co), min	30 ppm	10 ppm	5 ppm
Copper (Cu), min	1,000 ppm	330 ppm	500 ppm
Iodine (I), min	50 ppm	17 ppm	25 ppm
Manganese (Mn), min	4,000 ppm	1,330 ppm	2,000 ppm
Selenium (Se), min	13.2 ppm	6.0 ppm	8.8 ppm
Zinc (Zn), min	3,000 ppm	1,000 ppm	1,500 ppm
Vitamin A, min	200,000 IU/lb	80,000 IU/lb	100,000 IU/lb
Vitamin D <sub>3</sub> , min	20,000 IU/lb	8,000 IU/lb	10,000 IU/lb
Vitamin E, min	200 IU/lb	100 IU/lb	100 IU/lb
Prevents HOUSE FLIES			✓
Prevents HORN FLIES	✓	✓	✓
Prevents FACE FLIES			✓
Prevents STABLE FLIES			✓

**IGR MAX™** Contains **BIOPLEX®** organic trace minerals.

Ideal supplement for good to excellent quality pastures. Delivers 100% of NRC recommended trace minerals and vitamins. BIOPLEX® organic trace minerals added for superior bioavailability. Cattle will consume an average of 4 ounces per day based on a 1,000-lb animal.

**IGR PRO™** Contains **BIOPLEX®** organic trace minerals.

Ideal supplement for medium to poor quality pastures. Delivers needed protein in addition to essential minerals and vitamins. BIOPLEX® organic trace minerals added for superior bioavailability. Cattle will consume an average of 8 ounces per day based on a 1,000-lb animal.

**Mineral-lyx® with ClariFly**

Prevents the emergence of house flies, horn flies, face flies and stable flies from manure of treated cattle. Prevents the emergence of house flies and stable flies from manure of treated horses. Cattle will consume an average of 8 ounces per day based on a 1,000-lb animal.

BIOPLEX® is a registered trademark of Alltech®

## INTERRUPTING THE FLY CYCLE

