

Carbine™ specifically targets primary cotton insect pests to increase yield

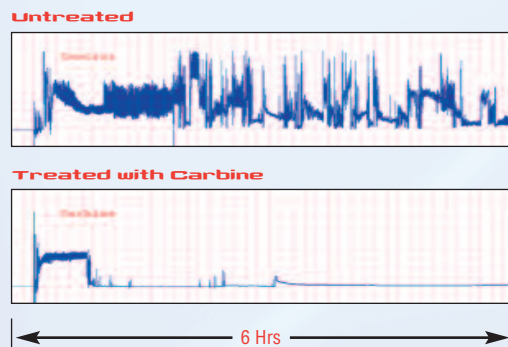


Carbine™ insecticide from FMC offers a new, unique mode of action that is active on the A-Type Potassium Channel. Studies show that in less than 30 minutes, plant bugs begin to lose their ability to feed when exposed to plants treated with Carbine. Once feeding stops, these insects no longer cause harm to the crop and quickly starve. The reduction in feeding leads to greater square retention and thus higher yields. Carbine offers more than the traditional crop insecticide. Carbine is truly a new crop protection product.



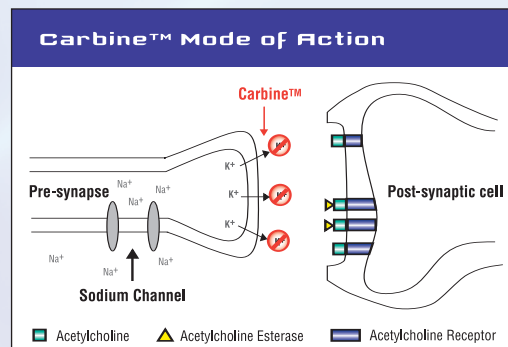
ELECTRICAL FEEDING STUDIES SHOW CESSATION IN FEEDING:

Electrical feeding studies, in top right two charts, show that in less than 30 minutes, plant bugs begin to stop feeding when exposed to plants treated with Carbine. Studies have further shown that this behavior is irreversible.



A NEW, UNIQUE MODE OF ACTION:

Carbine has a unique mode of action that is active on the A-Type Potassium Channel of the pest. This results in a loss of nervous system control characterized by shaking, difficulty in coordinated movement by the pests, and more importantly, insect stylets become flaccid and they lose their ability to feed on your cotton. When applied to your cotton, Carbine moves translaminarily through the leaf providing more complete protection for your crop.



Carbine is active on the A-Type Potassium Channel, unlike other cotton insecticides, providing an excellent resistance management tool.

IDEAL FIT IN INSECT RESISTANCE MANAGEMENT (IRM) PROGRAMS:

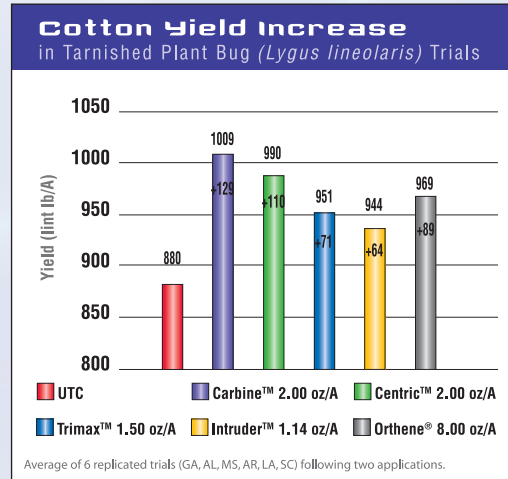
Lack of cross resistance with other insecticide classes makes Carbine a useful alternative in IRM programs. Inclusion of Carbine in cotton protection programs will reduce the resistance selection pressure on other insecticides. Carbine has an excellent fit into early-season pest control programs.

KEY COMPONENT OF INTEGRATED PEST MANAGEMENT (IPM) PROGRAMS:

Carbine is soft on beneficial insects including bees and predatory and parasitic insects, such as lady beetles, lacewings, mites and parasitic wasps. Preservation of beneficials will continue to contribute to overall pest control.

EXCELLENT ENVIRONMENTAL PROFILE:

Carbine has been classified as “practically non-toxic” to honeybees, aquatic organisms, fish and birds.



USE RATES:

Pests	Ounces of Carbine™ 50WG/Acre	Treated acres per jug (3.5 lb.)
Tarnished Plant Bug <i>(Lygus lineolaris)</i>	1.7 - 2.8	33 - 20
Western Plant Bug <i>(Lygus hesperus)</i>	1.7 - 2.8	33 - 20
Cotton Fleahopper <i>(Pseudatomoscelis seriatus)</i>	1.7 - 2.8	33 - 20
Aphids	1.4 - 2.8	40 - 20

TANK MIXTURES:

Carbine™ 50WG insecticide may be tank mixed with other crop protection products for use in cotton. Read and follow all manufacturers' label recommendations for the companion product. Carbine 50WG is generally compatible with other insecticides, fungicides, fertilizers and micronutrient products, provided sufficient free water is available for dispersion of all the tank-mix products. However, the physical compatibility of Carbine 50WG with tank-mix partners should be evaluated using a jar test before use.

In general, tank-mix partners should be added in the following order: products in water-soluble packaging, wettable powders or wettable granules or dry flowables, liquid flowables, liquids then emulsifiable concentrates. Allow each tank-mix partner to become completely dispersed before adding the next product. Always read and follow label directions of tank-mix partners.

CHEMICAL PRODUCT IDENTIFICATION:

Common Name: Flonicamid

Chemical Class: Pyridinecarboxamide

PHYSICAL AND CHEMICAL PROPERTIES:

Formulation: 50WG (0.5 lb. active per lb. product)

Store in original containers only. Avoid storage under excessive heat.

Water solubility (active ingredient): 5.2 g/L (20° C)

REGISTERED CROPS:

Cotton

For more information, please contact your FMC Star Retailer.



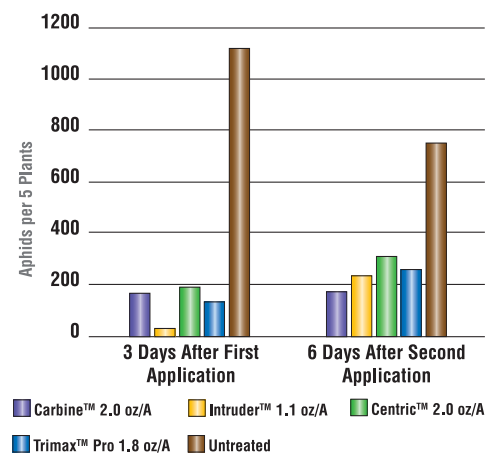
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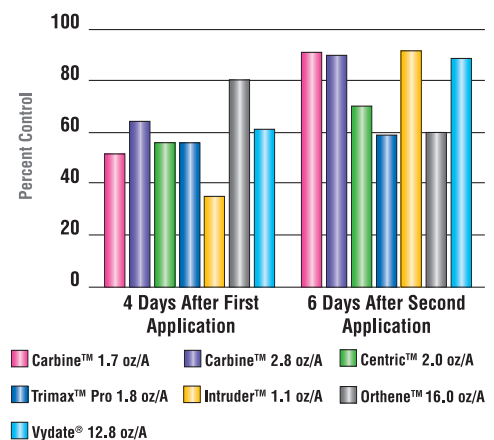
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Aphid Control Comparison



Cachot, MS 2007 Trials

Tarnished Plant Bug Control Comparison



Cachot, MS 2007 Trials
UTC 4 DA-A = 18.8 nymphs/10 row ft.
UTC 6 DA-B = 15.8 nymphs/10 row ft.