

DARKLING BEETLE CONTROL

KEEP YOUR BROILERS FREE FROM DARKLING BEETLES



Control
Solutions Inc.
PRODUCTION ANIMAL

COSTLY DAMAGE

Darkling beetles' impacts on broiler operations are well known and costly. In addition to carrying disease organisms and internal parasites, they cause structural damage by burrowing into and damaging house insulation, resulting in increased energy (propane and electricity) costs. Higher beetle numbers have also been associated with decreased feed efficiency and reduced flock performance.

LONG TERM TREATMENT

Good, consistent beetle control requires a long term treatment program. Generally it will take at least three flock treatment cycles to significantly reduce adult beetles. Once a control program is started, adults and larvae can be reduced with insecticide applications. However, eggs and pupae are not affected by these treatments. The number of eggs being laid and larvae hatching from existing eggs in the litter must also be reduced.

THE "CARRYOVER"

Since the beetle's life cycle exceeds a flock lifetime, and no insecticide has residual activity lasting through a flock, larvae hatching from eggs will pupate, emerge in the next flock and continue laying more eggs. To reduce beetles in this "carryover population," repeated treatments are necessary.

MODE OF ACTION GROUPS

Control Solutions has a variety of products, representing four different insecticide mode of action groups, to help in your commitment to darkling beetle control.



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NEONICOTINOID - (IRAC GROUP 4A)

- Dominion® 4L

CHITIN SYNTHESIS INHIBITOR (IRAC GROUP 15)

- Tekko® 10 (Insect Growth Regulator)
- Tekko® Fly G (Insect Growth Regulator)

JUVENILE HORMONE MIMIC (IRAC GROUP 7C)

- Pivot® 10 (Insect Growth Regulator)

PYRETHROID (IRAC GROUP 3A)

- Bifen I/T
- Cyzmic® CS
- Cyzmic® Synergized
- Permethrin CS
- Permethrin SFR

Using these products in a disciplined rotational scheme will provide a solid foundation for your beetle control program. Tank mix one of the neonicotinoids or pyrethroids with either of the IGR classes every application.

There are many issues in a poultry house and its production cycle that cannot be absolutely controlled. However, producers can reduce darkling beetle numbers and lessen this pest's impact on their business.