



THE COOL SEASON SOLUTION FOR SEASON-LONG INSECT CONTROL

This foundational spring insecticide program for the northeast combines **Suprado, Contrado and Doxem T&O** to deliver comprehensive, season-long control of **annual bluegrass weevil (ABW), white grubs, turf caterpillars, billbugs, and nuisance ants.**

Suprado, an insect growth regulator, is timed to disrupt ABW development during adult migration or early larval stages, before damage begins. Contrado follows as a systemic, broad-spectrum solution that extends control to billbugs, grubs, and foliar-feeding caterpillars through a single early-season application. Doxem T&O rounds out the program by reinforcing ABW control, targeting late-instar larvae, and delivering control of nuisance ants as soil temperatures rise in late spring.

Used together, Suprado, Contrado, and Doxem T&O offer a highly compatible, resistance-conscious approach to simplify spring spray programs and protect greens, tees, and fairways well into the growing season.

PRODUCT STRENGTHS

Suprado (Novaluron, Group 15)

- Novel insect growth regulator (IGR) disrupts development and reproduction
- Ideal for early-season applications to prevent populations from developing
- Unparalleled efficacy on annual bluegrass weevil (ABW) adults and larvae

Contrado (Chlorantraniliprole, Group 28)

- Broad-spectrum insecticide targeting key turf pests like white grubs, caterpillars, billbugs, and more
- Exceptional systemic activity and long-lasting control
- Flexible application window

Doxem T&O (Indoxacarb, Group 22)

- The first liquid indoxacarb formulation for turfgrass eliminates abrasive granules common in WDGs
- Provides a novel ingestion-based mode of action that complements other insecticide classes
- Delivers residual protection from ABW, turf-feeding caterpillars, and nuisance ant species
- Ideal rotational partner for resistance management in ABW programs

FLEXIBLE AND COMPATIBLE APPLICATIONS

Thanks to novaluron's residual activity lasting 30+ days, and its ability to impact multiple life stages of ABW, Suprado offers **flexible application timing.**

- Optimal results when applied during peak ABW adult migration, halting larval development before feeding damage begins.
- When targeting peak adult migration, apply between 120–170 growing degree days (base 50°F, beginning March 1), typically when forsythia shrubs display a half-gold, half-green appearance.
- Later applications aimed at early larval instars are also highly effective and often align with full bloom of redbuds and dogwoods.

With exceptional residual activity and systemic movement within the plant, a single high-rate application of Contrado delivers season-long control of white grubs, billbugs, and foliar-feeding caterpillars while widening the application window.

Doxem T&O residual activity provides added control of late-instar ABW larvae, complementing the timing flexibility of Suprado and Contrado to deliver complete, season-long insect control.

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FOUNDATIONAL SPRING INSECTICIDE PROGRAM FOR COOL-SEASON GREENS, TEES, AND FAIRWAYS

Timing	Solution	IRAC	Target Pests	Rate/Acre	Application Notes
Early April – Mid May	Suprado	15	Annual bluegrass weevil adults and early instar larvae	4 qts	Let dry on turf for 24 hours after application to allow for better contact with migrating adults. Then irrigate with 0.1-0.2" irrigation to move the active ingredient to the crown and thatch layer where larvae are present.
April - June	Contrado	28	White grubs, armyworms, cutworms, sod webworms, billbugs	8-12 fl oz	Control will be enhanced with 0.1-0.2" irrigation applied within 7 days of application to move the active ingredient into the soil and allow for systemic uptake in the plant. Mowing turf prior to irrigation or rain may remove treated tissue and limit efficacy.
Mid-May – Early June	Doxem T&O	22	Annual bluegrass weevil larvae, turf caterpillars, nuisance ants	15 fl oz	Apply approximately three weeks after adult preventative applications. Control will be enhanced with 0.1-0.2" irrigation applied immediately after application to move the active ingredient into the crown and thatch layer where late instar larvae are present.
June As needed	Suprado	15	Annual bluegrass weevil larvae and newly developed adults	4 qts	Apply 14–28 days following the Doxem T&O application to target larvae and new generation adults. Let dry on turf for 24 hours after application to allow for better contact with migrating adults. Then irrigate with 0.1-0.2" irrigation to move the active ingredient to the crown and thatch layer where larvae are present.

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