

THE COOL SEASON SOLUTION FOR SEASON-LONG INSECT CONTROL

This foundational spring insecticide program 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** provides a systemic, broad-spectrum solution that extends season-long control to white grubs, billbug larvae, and foliar-feeding caterpillars through a single early-season application. Tank mixed with **Contrado**, **Doxem T&O** rounds out the program by targeting late-instar ABW larvae and delivering control of nuisance ants as soil temperatures begin to 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 of ABW
- Ideal for early-season applications to prevent populations from developing
- Proprietary surfactant package enhances surface adhesion and coverage

Contrado (Chlorantraniliprole, Group 28)

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

Doxem T&O (Indoxacarb, Group 22)

- **The first, and patented**, liquid indoxacarb formulation eliminates abrasive granules 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, billbug larvae, and foliar-feeding caterpillars while widening the application window. Tank Mix with **Doxem T&O** for operational efficiency.

Doxem T&O provides an additional mode-of-action for later season applications targeting late-instar ABW larvae and nuisance ants, complementing the flexible timing of **Contrado** to deliver comprehensive 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
Late April – Mid May	Suprado	15	Annual bluegrass weevil (adults and early instar larvae)	4 qts	Use a carrier volume high enough for sufficient coverage. Post-application irrigation is not necessary when targeting adults.
Mid May – Early June	Doxem T&O	22	Annual bluegrass weevil (late instar larvae) and nuisance ants	15 fl oz	Apply 3-4 weeks after adult preventative applications to target crown and root-feeding larvae. Irrigate in with 0.1-0.2" to move the active ingredient into the root zone.
May – June	Contrado	28	White grubs, foliar-feeding caterpillars, billbug larvae	8 – 12 fl oz	Earlier applications will require higher rates for season-long residual control. Irrigate in with 0.1-0.2" to move the active ingredient into the root zone.
June <i>As needed</i>	Suprado	15	Annual bluegrass weevil (newly developed adults and larvae)	4 qts	Apply as needed 2-4 weeks after the Doxem T&O application to target new adults. Use a carrier volume high enough to move the product past the canopy if targeting early instar larvae.

THE POWER OF THE TANK MIX: DOXEM T&O AND CONTRADO

Operational efficiency with one application, dual placement: Both actives move into the root zone together.

Clean up and lock in: Doxem T&O cleans up late-instar ABW larvae and nuisance ants; Contrado locks in for season-long control.

Systemic movement: Contrado also moves upward for billbug larvae and caterpillar control with added ABW suppression.

