



PROVAUNT® Turf insecticide is a NEW Disruptive solution against turf pests



Powerful Chemistry



Safe Environmental Profile



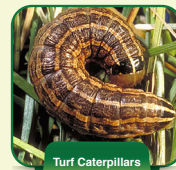
Increase Productivity

Key Benefits

- The powerful chemistry controlling Mole cricket, cutworm, armyworm and weevils
- **New mode of action**, Provaunt® (Indoxacarb) is the only chemistry in the Oxadiazine Class and no cross resistance to any other molecule.
- Contact activity with knock down effect and translaminar in plant
- Improved formulation for enhanced performance and ease of use
- Two hours rainfastness
- Enhance turf protection to increase productivity:
 - Effective on adults and larvae, a single application for multiple target pests
 - 28 days control for cutworm and armyworm even at low rate application
 - 90 days control for mole cricket
- Safe for non-target organism



Mole Cricket



Turf Caterpillars



Weevils

How Provaunt works?

Provaunt® has both systemic and contact activity on turf pests. Upon contact or ingestion of the treated plant, insects will stop feeding between 0-4 hours. Thus, no more turf damage will occur after Provaunt® application. The active ingredient, Indoxacarb will be breakdown by insects' enzymes to produce a molecule that will block it's sodium channels resulting in paralysis followed by death.

Improved formulation to enhanced performance

Active ingredient:
Indoxacarb

New Class of Chemistry:
Oxadiazine



Novel Mode of Action:
Voltage-dependent sodium channel blocker

Formulation:
WDG (water-dispersible granule) 200g/Kg

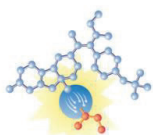
Mode of action - MetaActive chemistry

NON REPELLENT - PESTS DON'T KNOW IT'S THERE, DOES NOT PUSH AWAY FROM TREATMENT AREA



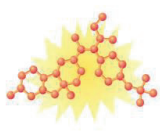
Phase 1

Exposure
The insect ingests or comes into direct contact with indoxacarb



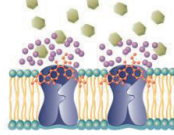
Phase 2

Enzymes
The insect's enzymes break down indoxacarb, cleaving off the carbomethoxy group.



Phase 3

MetaActive™
The resulting molecule is MetaActive™ compound-the more powerful form.



Phase 4

Death
MetaActive™ binds to the target site, blocking the insect's sodium channels. The insect experiences paralysis, followed by death.

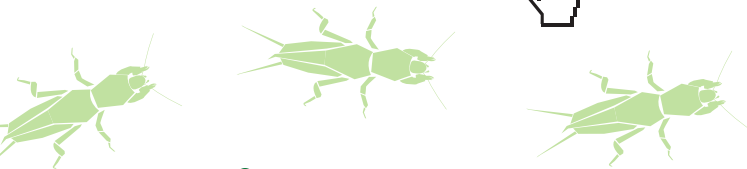
Indoxacarb requires bio-activation to the active form by insect's own metabolic enzymes, only targeted insect pests have these specific metabolic enzymes for activation. Hence, it is safe on non-target organisms.

Provaunt® the next generation mole cricket solution

Provaunt® provides 90 days control for mole cricket. Apply Provaunt® when during peak egg hatch or when young nymphs are first seen. Make a second application 2 weeks control to achieve optimum control.

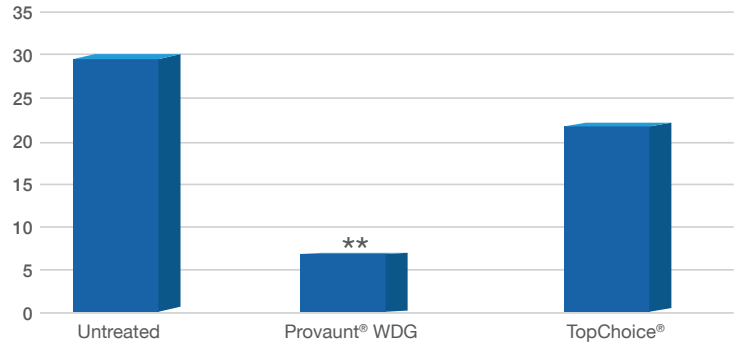
Download product label here:

[click here to download provaunt label](#)



Southern Mole Cricket Control with Provaunt WDG Adam Dale, University of Florida

Mean mole cricket tunnels per 26 ft.² on July



Treatments applied on June 26, 2018; data collected on July 5, 2018. Second instar mole crickets present at time of application.

** indicates significant control compared to Untreated.

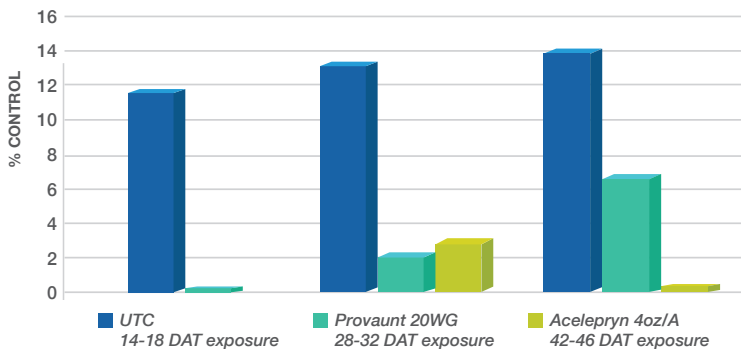
Source: Adam Dale, University of Florida, 2018. Performance evaluations are based solely upon interpretation of public information and field observations. Trials reflect treatment rates commonly recommended in the marketplace.

Provaunt® is another power chemistry for Turf caterpillars control

Turf caterpillars like cutworm and armyworm are controlled by feeding on treated foliage through direct contact with spray droplets during application or by contact with active ingredient residue on leaf surfaces.

Black Cutworm Trial

VanDuke, UT (2018)

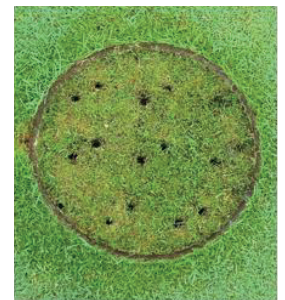


Protect them from black worm damage

Dr Paul Heller, Pen State (2008)



Provaunt®
0.039 LB AI/A



Untreated

Provaunt® is a powerful tool for resistance management

- Bioactivated mode of action ensures more targeted control and critical component of preventing resistance
- Longer control than other synthetic pyrethroids and carbamates
- Excellent rotation partner with Acelepryn, Meridian and other class of insecticides

Provaunt® Application Guide

Pest	Mole Cricket	Weevils	Turf Caterpillar
Product Rate	1.25 l/ha	1.25 l/ha	0.2 - 0.4 l/ha
Timing	Apply Provaunt® applied at peak egg hatch and/or when small nymphs are present. For large adults, consider mixing with synthetic pyrethroids like Lambda-cyhalothrin for faster knock down	Apply Provaunt® when adult weevils are first observed. Repeat a second application with ACELEPRYN or MERIDIAN to treat adult weevils and stem feeding larvae.	Apply when larvae are first observed Delay irrigation and mowing within 24 hours if possible

Provaunt increases productivity!

A single application gives you long-lasting control in mole cricket, armyworm, cutworm, and weevils. With PROVAUNT, you can maintain optimum turf quality and reduce labor and machinery costs. You can now deploy your workforce to other tasks.

