

ARENA[®] 50 WDG

A SINGLE APPLICATION WORKS PREVENTIVELY AND CURATIVELY FOR LONG-LASTING RESIDUAL CONTROL OF WHITE GRUBS AND A BROAD SPECTRUM OF OTHER PESTS.



CHALLENGE

Grubs always get in the way. Maintaining golf courses and sod farms free from grub damage has always been a challenge. Golf course superintendents and sod farmers need an effective option for controlling the damage done by the toughest turf insects like annual bluegrass weevil, white grubs and European crane fly.

NUFARM SOLUTION

Arena[®] 50 WDG insecticide is a valuable tool for broad-spectrum insect control in turf. Arena delivers superior, consistent, season-long control of a broad range of insect pests. With preventive and curative activity, Arena provides long residual grub control to save time, money and labour required with multiple application products.

REGISTERED USES

Turfgrass including golf courses, sod farms, and municipal, industrial, and residential turf (where not prohibited by provincial laws)

INSECTS CONTROLLED	APPLICATION RATES
	g / 100 m ²
Annual bluegrass weevil	5.5-7.0
Bluegrass billbug	4.5
European crane fly (<i>Leather jacket</i>)	5.5
Hairy chinch bug	3.5-5.0
White grubs (<i>Asiatic garden beetle, European chafer, Japanese beetle, Masked chafers, Oriental beetle</i>)	2.5-5.0

Duration of control depends on environmental factors, plant growth, dosage rate and degree of insect infestation.

PCP NO.	29383	IRAC NO.	4A
ACTIVE INGR.	clothianidin (50.0%)		
FORMULATION	water-dispersible granule		
CHEM. FAMILY	neonicotinoid		
PACKAGE SIZE	4 x 1.13 kg jug one jug treats 5 acres (at 5.5 g/100 m ²)		
RAINFAST	avoid application when heavy rain is forecast		
APPLICATION / SEASON	one		
SURFACTANT NEEDED	no		

BENEFITS

- Superior, long-lasting residual control of a broad spectrum of tough soil- and surface-feeding insects
- Preventive and curative grub control
- Consistent results for control of turfgrass insects
- Season-long insect control with one application – saves time, money and labour
- Superior grub control, including curative activity, helps keep foraging animals away
- No immediate post-application watering required

PERFORMANCE TIPS

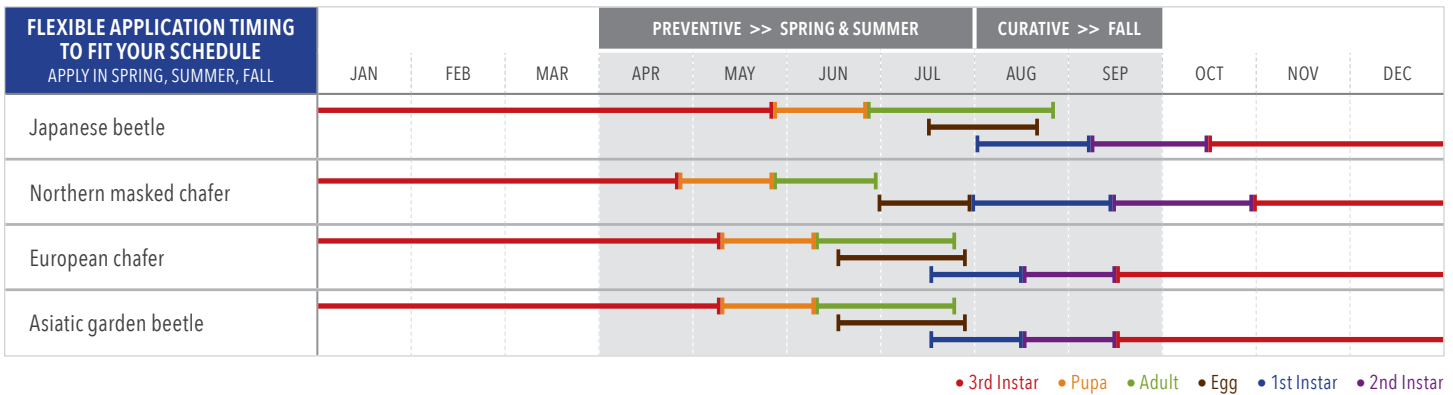
- Rate is dependent on target species and stage of target pest
- No surfactant required
- When targeting multiple pests, make application to earliest egg lay or adult flight
- Correct water volumes are essential for control (4-8 L / 100 m²)
- Use a calibrated spreader to uniformly broadcast over the treatment area
- Do not mow turf grass until after irrigation or rainfall has occurred



Nufarm

Grow a better tomorrow.

ARENA® 50 WDG



CRANE FLY LARVAE CONTROL

Crane fly larvae cause significant damage to turf by feeding on the roots of grass plants. European crane fly overwinter as 3rd instar larva and will feed and cause damage in the spring, with peak damage occurring in May and early June from the 4th instar larva. Adults emerge and lay eggs in July to September. Arena works curatively and preventively to deliver the best and the longest-lasting residual crane fly larvae control.

APPLICATION TIMING

PREVENTIVE: In fall prior to egg hatch

CURATIVE: In spring to mature larvae, prior to pupation

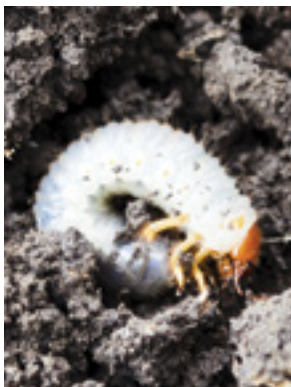
EXCELLENT CURATIVE CONTROL >> % CONTROL



MERIT® 89.7 kg/ha /VS/ ARENA® 550 g/ha

Maximum spring (curative) control was achieved in seven days with Arena – outperforming the standard for curative crane fly larvae control, helping to ensure healthy, better looking turf.

Products applied 5/30 and sampled 1, 3 and 7 days later. Data is pooled result of all sample timings. Source: Curative control of European Crane Fly Larvae on Golf Course Roughs, Spring, 2006 (G51) D. C. Peck. Arthropod Management Tests, 2007.



GRUB CONTROL

Apply Arena from June 1 to July 15 for maximum flexibility and longest residual for preventive/early instar grub control. For superior curative control, apply in August and September. Unlike shorter residual insecticides that require retreatment, Arena lasts – controlling grubs that surface from below the treatment zone for weeks before coming up to damage turf roots.

APPLICATION TIMING

PREVENTIVE: Apply spring through peak egg hatch, beginning as early as the first adults appear

CURATIVE: After egg hatch or when turf damage is first observed
Use upper end of rate range in post hatch applications
Late season applications may provide suppression only

EUROPEAN CHAFER >> % CONTROL



ACELEPRYN® 455 g/ha /VS/ ARENA® 300 g/ha

Applied 8/28/06 to bluegrass/fescue mix. 0.254 cm of rain 24 hrs after application, counts taken on 10/11/06. Source: Arthropod Management Test, 2007, G25, Stanley R. Swier, University of New Hampshire.

JAPANESE BEETLE / MASKED CHAFER >> % CONTROL



MERIT® 448 g/ha /VS/ ARENA® 315 g/ha

Applied 5/1 and 5/31. Source: "Comparison of Grub Insecticide Efficacy by Time of Application" D. Sheltar, July, 2008. Arena data taken from Arthropod Management Tests and non-published university-conducted studies.



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