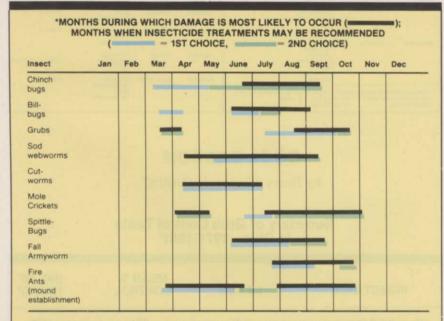
# **INSECT CONTROL**

**WARM-SEASON INSECT CONTROL** 

by Pat Cobb, Auburn University

#### Insect Calendar



\*Timing of treatments varies from one area to another, and is considerably different in south Florida. Check with Extension Agents in your area and monitor pest populations to determine exact timing of controls.

## Use Summary of Some Common Turf Insecticides\*

Common Name	Trade Name	Major Uses	Primary Use Site ***	Common Name	Trade Name	Major Uses	Primary Use Site ***
acephate	Orthene 755	fire ants mole crickets	A.G.L.S	diazinon	Diazinon	bilibugs chinch bugs fall armyworms	L.
"bendiocarb	Turcam	grubs mole crickets	AL			fire ants grubs sod webworms	
carbaryl	Sevin SL	billbug (adults)	A.G.L.S			spittlebugs	
	Sevimol	cutworms			122700000000	48	
		fall armyworms green June beetle grubs grubs		**ethoprop	Mocap 5G	grubs mole crickets	A.G.L.S
	2000	sod webworms	H ENGLISHA	isofenphos	Oftanol	fire ants grubs	A. G. L. S
chlorpyrifos	Dursban	billbug (adults) chinch bugs	A.G.L.S			mole crickets	
		cutworms		**isazofos	Triumph	chinch bugs	L
		fall armyworms fire ants	and the last			mole crickets grubs	(G&S in some states
		sod webworms				Branch.	
		spittlebugs		trichlorfon	Dylox, Proxol	cutworms fall armyworms	A.G.L.S

## **COOL-SEASON**

by Harry Niemczyk, OARDC

### Summary of Grub Control Tests in Ohio - 1971-1981<sup>1</sup>

INSECTICIDE	LB AI/A	MEAN % CONTROL	(NO. OF TESTS) <sup>2</sup>
ethoprop (Mocap)	5.0	83	
isazofos (Triumph)	2.0	92	(20)
bendiocarb (Turcam)	2.0	83	(18)
isofenphos (Oftanol)	2.0	80	(37)
carbaryl (Sevin)	8.0	64	(14)
trichlorfon (Proxol)	8.0	81	(23)
diazinon	5.5	60	(16)
chlorpyrifos (Dursban)	4.0	43	(11)

<sup>1</sup> Includes Japanese beetle, Cyclocephale spp., 2 Each test replicated 3 or 4x. Generally, treatments applied late summer or early spring, trigated (1/4-1/2 Phyllophaga spp. only.

2 Each test replicated 3 or 4x. Generally, treatment-split above sales reatment-H.D. Nemczyś & K.T. Power

#### **Insect Control**

COOL SEASON	LATE WINTER	SPRING (April-May)	SUMMER (June-Aug.)	FALL (SeptOct.)
CHINCH BUGS	When summer damage is expected preventative application of liquid or granular Dursban (1 lb. Ai/ acre) Trumph (1 lb. Ai/ acre) or Oftanol (2 lbs. Ai/ acre) may be used as soon as the insects become active.	Preventative applications of insecticides should be completed by the first week in May.	Treat before injury is severe with Dursban (1 lb. A/Jacre), diazinon* (2.5-5.5 lbs. Ai/ acre), or other labeled insecticides.	Treat if necessary, but generally infestation levels are not high enough to warrant using insecticides.
BILLBUGS	Same as for chinch bugs.	Same as for chinch bugs,	Treat infestations at same rates as grubs with Triumph¹ diazinon¹*. Turcam, Proxol or Sevin. Irrigate following application.	Treatment is usually not appropriate at this time.
gaves	Application of Offtanol (2 ibs. Alsero) during March may provide control of overwintered grubs. This may not provide control into late summer.	A single application of Ditanol (2 lb. A/jacre) made Ortanol (2 lb. A/jacre) made overwintered grubs. Can also be controlled in May by spot or general freatment with Triumph 1 (2 lb. A/jacre) or Sevin (8 lb. A/jacre) or Sevin (8 lb. A/jacre) or Sevin (6 lb. A/jacre) or S	Existing infestations found in July or Aug. may be treated with Triumph'. Triumph'. Sevin or Modap (commercial trut only) at rates used in spring. Treat green June beetle with Sevin (6-8 lbs. Al/acre).	Treatment can be made as late as Mid-September. Irrigate first if thatch or soil is dry.
SOD WEBWORMS	Treatment is not appropriate at this time.	When necessary, apply diazinon** (5 lb. Al/acre) Triumph! (1 lb. Al/acre) Dylox or Proxol (6-8 lb. Al/acre). Orthene (1-3 lb Al/acre).	Make application when larvae are present or two weeks after peak moth flight. Use Dursban (1 lb. Al/acre). Triumph¹ (1 lb. Al/acre). Diazinon¹* (5 lbs. Al/acre). Sevin (6-8 lbs. Al/acre) or Proxol (6-8 lbs. Al/acre).	Larvae are small and cause little damage at this time. Treatment in September reduces population for next spring.
GREENBUGS	Treatment is not appropriate at this time.	Aphid numbers are too low to detect.	Use Orthene (I lb. Al/acre) or Dursban (1 lb. Al/acre) or diazinon** (2.5 lbs. Al/acre).	Severe infestations may occur as late as December. Use the same insectides as in the summer.
BLACK TURFGRASS ATAENIUS	An application of Offanol (2 b. Al/acre) in March may prevent summer infestations of larvae, but it's best to wait until April.	Application of Oftanol (2 lbs. A/acre) during April or May can prevent larval infestations during summer. Dursban (1-2 lbs. A/acre) applied to fairways in April also prevents infestations. Retreatment after 2 weeks may be necessary.	If preventative applications were not made, spot or generally treat with Triumph! (2 lbs. Al/acre). Proxol (8 lbs. Al/acre). Turcam (2-4 lbs. Al/acre) or Mocap (5 lbs. Al/acre) as needed.	Undeveloped larvae die wit frost.
CUTWORMS	Treatment is not appropriate at this time.	The insecticides effective against sod webworm are also effective against cutworms. Apply late in the afternoon. Do not irrigate following liquid applications unless specified on label.	Use Orthene (1-3 ib. Al/ acre). Dursban (1 ib. Al/ acre). Triumph (1 ib. Al/ acre). Proxol (8 ibs. Al/acre) or Sevin (6-8 ibs. Al/acre). Do not irrigate following liquid applications unless specified on label.	Same as for summer.
CLOVER MITES	Treatment is not appropriate at this time.	Liquid diazinon** (2.5 lbs. Ai/acre) or Dursban (1 lb. Ai/acre) may be used.	Treatment usually is not necessary.	Treat as needed with liquid diszinon** (2.5 lbs. Ai/acre) or Dursban (1 lb. Ai/acre).
WINTER GRAIN MITE	If needed, use spring treatment.	If treatment is necessary, use liquid diazinon** (2-3 lbs. Ai/acre) or Dursban (1 lb. Ai/acre). Avoid repeated	Treatment is not appropriate, since mite is in egg stage.	Treatment is not appropriate since mite is in egg stage.

For use only by commercial lawn pest control personnel except in states where Special Local Needs labeling permits use on golf course tees, greens and aprons, and on soft arms. A maximum of one application per year is permitted for the 2 lbs. Al/acre rate. A maximum of two applications per year at least 80 deys agant is permitted for the 10. Al/acre rate.

See accompanying text for details; aways follow label directions.

\*\*Dearton may not be used on golf courses or soft farms.