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	t.
**bendiocarb	Turcam	grubs mole crickets	A.L			fire ants grubs sod webworms	
carbaryl	Sevin SL	billbug (adults)	A.G.L.S			spittlebugs	
	Sevimol	cutv-orms fall armyworms green June beetle grubs orubs		**ethoprop	Mocap 5G	grubs mole crickets	A.G.L.S
		sod webworms	NAME OF A	isofenphos	Oftanol	fire ants	A.G.L.S
chlorpyrifos	Dursban	billbug (adults) chinch bugs	A.G.L.S			grubs mole crickets	
		cutworms fall armyworms fire ants sod webworms	and treatment	**isazofos	Triumph	chinch bugs mole crickets grubs	(G&S in some states
		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

INSECTICIDE	LB AI/A	MEAN % CONTROL	(NO. OF TESTS) ²	
ethoprop (Mocap)	5.0	83	(10)	
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)	

¹ Includes Japanese beetle, Cyclocephale spp., 2 Each test replicated 3 or 4x. Generally, treatments applied late summer or early spring. Irrigated (I4-10 Phyllophaga spp. only.

2 Each test replication, thatch - 10 inch, readings taken ca. 4-8 weeks after treatment-H.D. Niemczyk & 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) Triumph (1 lb. Ai/ acre) of 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. Al/acre), diazinon** (2.5-5.5 lbs. Al/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.
GRUES	Application of Oftanol (2 lbs. Alacre) during March may provide control of control of control of control of control of control into late summer.	Oftanol (2 lb. Ai/acre) made in April may control overwintered grubs. Can	Existing infestations found in July or Aug. may be treated with Thumph'. Proxic, Turcam, Offanol., Commercial furth 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 lb. 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 the Triumphi (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). Triumphi (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 ibs. Ai/acre) or Dursban (1 ib. 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.