Red harvester ants are one of the more noticeable and larger ants in open areas in Texas. However, harvester ants are not nearly as common today as they were during the earlier 1900s. The decline, particularly in the eastern part of the state, has caused some alarm because these ants serve as a major source of food for the rapidly disappearing and threatened Texas horned lizard.

**Description**

Worker ants are 1/4 to 1/2 inch long and red to dark brown. They have squarish heads and no spines on the body. There are 22 species of harvester ants in the United States, 10 of which are found in Texas. Seven of these species are found only in far west Texas.

**Life cycle**

Winged males and females swarm, couple and mate, especially following rains. Winged forms are larger than worker ants. Males soon die and females seek a suitable nesting site. After dropping her wings, the queen ant digs a burrow and produces a few eggs. Larvae hatch from eggs and develop through several stages (instars). Larvae are white and legless, shaped like a crookneck squash with a small distinct head. Pupation occurs within a cocoon. Worker ants produced by the queen ant begin caring for other developing ants, enlarge the nest and forage for food.

**Pest status**

Worker ants can give a painful, stinging bite, but are generally reluctant to attack. Effects of the bite can spread along lymph channels and can be medically serious. Harvester ant workers commonly are sold for ant farms.

**Habitat**

Worker ants remove vegetation in circular areas or craters around nests. Colonies occur in open areas and usually have a single central opening. The area around the opening usually has small pebbles deposited on the soil surface by the worker ants. Often there is no vegetation within a 3- to 6-foot circle around the central opening of the colony, and along foraging trails radiating from the colony. Colonies usually are widely separated; however, heavy infestations in pasture and rangeland can reduce yield. Red harvester ants also colonize in ornamental turf areas where their presence may be undesirable. They do not invade homes or structures.
Food sources

Red harvester ant foragers collect seeds and dead insects and store them in the nests as food for the colony. The ants’ mouthparts are designed for chewing.

Management

Red harvester ants are native species and are generally not considered to be serious pests. Consider the option of not controlling these ants, especially in areas inhabited by the few remaining horned lizards (see box).

However, in certain cases, elimination of red harvester ants may be necessary. Destruction of their nests and habitat through regular discing and mowing may eliminate them without resorting to use of insecticides. If pesticides are selected, use registered products selectively and carefully follow instructions provided on the label.

Although any insecticide registered to control “ants” can be used to control harvester ants, few are registered specifically to control these species. Harvester ant colonies can be quickly eliminated using Amdro® Pro Fire Ant Bait containing 0.73 percent hydramethylnon. Individual colonies can be treated using 2 to 5 tablespoons of product scattered around the colony’s central opening. In larger areas, the product can be broadcast at a rate of 1 to 1 1/2 pounds product per acre (2 to 3 ounces per 5,000 square feet) using a suitable application device such as a hand-cranked seeder or the electric-driven mountable Herd GT Model 77 Seeder. Amdro® can be used in lawns, landscaped areas, golf courses, other noncropped areas, grounds surrounding poultry houses, corrals, other animal

Help Save the Texas Horned Lizard

The Texas horned lizard is a protected threatened species. It is commonly called “horny toad.”

Full-grown lizards are normally 2 1/2 to 4 1/4 inches from the snout to the tip of the tail, although some grow larger. They have broad, flattened bodies and bear a crown of spines at the back of the head. Their color varies by the background color of the habitat in which they live.

Populations of the horned lizard and the harvester ant, on which it predominantly feeds, have declined in the eastern part of Texas. There are several possible factors contributing to the decline of these species.

- Red imported fire ants are believed to eliminate harvester ants and prevent new colonies from forming by preying on mated queen harvester ants.
- Red imported fire ants may prey directly on lizards or on hatching eggs of lizards.
- Many insecticides used to control or eliminate the red imported fire ant are toxic to the harvester ant, and eliminate the harvester ant more efficiently than they eliminate fire ants. Broadcast applications of fire ant bait products should be avoided in areas where harvester ants are found.
- Horned lizards normally inhabit flat, open, dry country with little cover. Urbanization, mowing, shredding, shallow discing and other land use practices can eliminate or reduce the production of weed seeds on which harvester ants feed. Harvester ants and horned lizards, which are dependent upon this ant species, cannot survive in these disturbed habitats.
holding areas, nonbearing ornamental nursery stock, pasture and rangeland. Do not cut and bale hay from treated cattle pastures and rangeland until 7 days after bait application.

In noncrop areas, acephate dust products such as Orthene® Turf, Tree & Ornamental Spray (75 percent acephate) can be applied as a dry application of 1 to 2 teaspoons product per nest. It also can be applied as a liquid drench, using 1 ounce of the product mixed in 5 gallons of water. Apply the mixture at a rate of 1 gallon per mound plus a 4-foot diameter circle around the nest.

Additional Information


Acknowledgment
The author appreciates review comments from Dr. John Jackman, Dr. Dawn Gouge and Dr. Pat Morrison.

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Produced by Agricultural Communications, The Texas A&M University System
Extension publications can be found on the Web at: http://agpublications.tamu.edu

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