Vertebrate Management





Pecan IPM Toolbox

Introduction

Vertebrate Management

- Crows, blue jays and squirrels can cause severe losses to pecan crops.
- Heavy losses are most often recorded when pecan crops are short and feeding becomes localized due to food availability.
- Prevention of losses depends largely on early detection and initiation of control measures.
- note feeding patterns become well established, they are difficult to change.
- so Control measures must be persistent and varied regularly to be effective.
- All the animals that cause pecan losses are protected by various state and federal laws.
- Before beginning control measures, the local Game Warden should be consulted.

Crows and Blue Jays

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Feeding Habits

- Crows and blue jays behave differently, but frightening efforts affect them the same way.
- While crows may feed on pecans of any size, blue jays are normally restricted to the smaller varieties.
- Orchard location affects the amount of predation experienced each year.
- Orchards that are located adjacent to existing stands of trees will experience greater losses to all predators, due to the proximity of native cover.

Crows and Blue Jays

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Chemical Control

- Avitrol[®] is the only registered chemical available for use in this type situation.
- It is restricted for use by, or under, the supervision of government agencies or licensed pesticide applicators.
- Avitrol is designed to affect only a small number of the birds present.
- The affected birds produce distress cries and very erratic behavior, which scares the remainder of the flock from the area.
- 50 This chemical may be effective in some areas.

Crows and Blue Jays

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Persistence is the Key

- Effective control measures require early detection of losses and establishment of an aggressive control program.
- The control program should include a combination of the previously mentioned devices.
- Efforts must be persistent and the noise-producing devices must be relocated and/or alternated regularly to prevent conditioning of the birds.
- Stationary sound devices should be supplemented with shell crackers or noise bombs that are exploded in the air over the birds, if possible.
- Muman activity in the orchard is especially important.

Bands, Artificial Snakes and Noise

- Squirrels may be excluded from trees by encircling the trees with 2-foot-wide bands of metal located six to eight feet above the ground.
- A 10-foot clearance should be maintained between trees to prevent them from jumping from tree to tree.
- In individual trees, squirrels may be repelled by locating artificial snakes along their travel routes.
- In orchards, the exploding-type noise devices used to repel birds should also help to repel squirrels.

Suppliers

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Pyrotechnic Devices - exploding or noise-producing devices fired from specially designed pistols or shotguns.

Marshall Hyde, Inc.

Box 497 Port Huron, Michigan 48060 Phone 313/982-2140

soneco, Inc.

Dacono, Colorado 80514 No address or phone available

Automatic Exploders - machines designed to produce loud explosions at regular intervals; operated by acetylene or propane gas.

B. M. Lawrence & Company

351 California Street San Francisco, CA 94111

Alexander-Tagg Industries, Inc.

935 Jacksonville Road Warminster, PA

Bird-X

325 West Huron Street Chicago, IL 60610

smith-Roles

1367 South Anna Wichita, KS 67209 Phone 316.946.0925

Mub States Corp

2000 N. Illinois St. Indianapolis, IN 46202

Avitrol - a chemical agent used to frighten birds (trade name Avitrol); used only by licensed pest control operators or government agencies

SOLUTION Avitrol Corp

7644 E. 46th St Tulsa, OK 74145

Sound Devices - devices that produce sounds that repel or attract birds

Bio-Sonics Control Company

1 5259 Highway 128 Claistoga, CA 94515

Electronic Game Calls

270 W Grand Ave

Wisconsin Rapids, WI 54494

B. M. Lawrence & Company

24 California St San Francisco, CA 94111

Bird-K Inc.

325 W Huron St Chicago, IL 60610

Arkansas Electronic Consultants

8000 Stanton Road Little Rock, AR 72209

Signal Broadcast

2314 Broadway Denver, CO 80205

AV-Alarm Corp

P. O. Box 2488

Santa Maria, CA 93454