



United States  
Department of  
Agriculture

Animal and  
Plant Health  
Inspection  
Service

**National Wildlife  
Research Center**



## Product Registration: Providing Tools for Wildlife Services

*Contact Information:*

*Mr. John D. Eisemann, Wildlife Services Registration Manager*

*NWRC Headquarters*

*4101 LaPorte Avenue*

*Fort Collins, CO 80521*

*Phone: (970) 266-6158 FAX: (970) 266-6157*

*E-mail: john.d.eisemann@aphis.usda.gov*

*Web site: www.aphis.usda.gov/ws/nwrc*

### National Wildlife Research Center Maintains Chemical Tools for Wildlife Damage Management

Wildlife Services' (WS) National Wildlife Research Center (NWRC) is the only Federal research facility devoted exclusively to resolving conflicts between people and wildlife through the development of effective, selective, and acceptable methods, tools, and techniques.

The NWRC Registration Unit is responsible for coordinating the development of data required for maintaining or expanding authorized uses of Animal and Plant Health Inspection Service (APHIS) vertebrate control products. To meet this responsibility, the Registration Unit works closely with NWRC scientists to ensure that



**Groups Affected by These Problems:**

- Urban and suburban residents
- Farmers, ranchers, and livestock producers
- Natural resource managers

**Major Accomplishments:**

- NWRC's Registration Unit submitted a new pesticide application to the EPA for acetaminophen in order to control brown tree snakes on Guam and other Pacific islands.
- NWRC's Registration Unit has compiled and evaluated historical Poison Control Center data for human exposure to strychnine and zinc phosphide rodenticides.
- NWRC's Registration Unit is working cooperatively with the U.S. Fish and Wildlife Service, and a private rodenticide registrant to register the aerial application of a rodenticide in native Hawaiian ecosystems to protect threatened and endangered species.

research results will be acceptable for regulatory purposes and that study designs meet U.S. Environmental Protection Agency (EPA) and U.S. Food and Drug Administration (FDA) guidelines. In addition, the Registration Unit responds to field personnel requests for new products or changes to existing products that will improve their ability to manage wildlife problems. The Registration Unit also provides technical assistance and information to State WS programs, Federal and State agricultural and conservation agencies, and other non-governmental individuals and groups.

NWRC's Product Development staff coordinates two rodenticide registrant consortia: the Strychnine Consortium and the Zinc Phosphide Consortium. These consortia were established to collectively address EPA reregistration requirements for these

compounds. Participation in these consortia has saved APHIS and other rodenticide registrants hundreds of thousands of dollars in data generation costs.

## Applying Science and Expertise to Wildlife Challenges

**Vertebrate Control Pesticides**—APHIS has eight active ingredients registered with EPA for use in vertebrate control products: Compound DRC-1339, an avicide; strychnine and zinc phosphide,

rodenticides; carbon and sodium nitrate, fumigants used in the Gas Cartridge; Compound 1080, used only in the Livestock Protection Collar; sodium cyanide, used only in the M-44 Cyanide Capsule; and Methiocarb, an avian repellent. An additional compound exempt from registration with EPA is corn oil, used to coat eggs to prevent hatching.

**Wildlife Drugs**—APHIS has five Investigational New Animal Drug (INAD) authorizations from the FDA, which allow interstate transport during the development of new products. Two of the INADs are for the immunocontraceptive vaccines, gonadotropin-releasing hormone (GnRH) and porcine zona pellucida (PZP), which are currently being evaluated for use with deer and other species. Another oral contraceptive compound is currently being studied for use with rodents. In addition, APHIS holds INADS for 2 immobilizing agents: alpha-chloralose, which is used to remove problem birds in urban settings, and propiopromazine hydrochloride (PPZH), a tranquilizer tab used in conjunction with predator traps.

### Vertebrate control products currently registered or approved for use by USDA APHIS

Registered Products Product Name	Species Controlled	Uses Unique to APHIS
<b>RODENTICIDES</b>		
Zinc Phosphide (3 products)	Voles, mice, rats, hares, woodchucks, ground squirrels, muskrats, nutrias, prairie dogs	Some
Strychnine (4 products)	Pocket gophers	No
Gas Cartridge (1 product)	Prairie dogs, ground squirrels, woodchucks, marmots	Some
<b>PREDACIDES</b>		
Large Gas Cartridge (1 product)	Coyotes, red foxes, striped skunks	Yes
M-44 Cyanide Capsules (2 products)	Coyotes, red foxes, gray foxes, arctic foxes, feral dogs	Some
Compound 1080 (Livestock Protection Collar)	Coyotes	Yes
<b>AVICIDES and AVIAN REPELLANTS</b>		
Compound DRC-1339 Concentrate (4 labels)	Gulls, pigeons, ravens, crows, magpies, starlings, blackbirds	Yes
Compound DRC-1339 Concentrate—Feedlots	Blackbirds, starlings, grackles, cowbirds	Some
Mesuroil Aversive Conditioning Egg Treatment	Crows, ravens	Yes
<b>IMMOBILIZING AGENTS</b>		
Alpha-chloralose	Geese, ducks, coots, pigeons, ravens	Yes
Tranquilizer Trap Device (Propiopromazine HCL)	Wolves, coyotes, feral dogs	Yes
<b>CONTRACEPTIVE AGENTS</b>		
Porcine Zona Pellucida	Deer, coyotes, prairie dogs, other rodents	Some
Gonadotropin Releasing Hormone	Deer, coyotes	Yes
Diazacon	Prairie dogs	Yes