

Wildlife Services

Protecting People
Protecting Agriculture
Protecting Wildlife

State Report

FY 2010

Guam



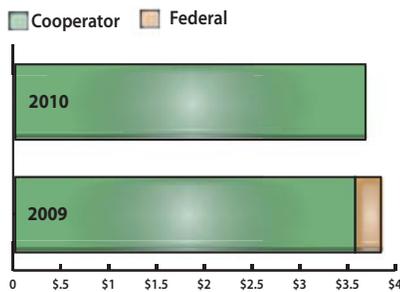
Contact Information:

Mikel E. Pitzler, Hawaii, Guam, and
Pacific Islands Wildlife Services State
Director
3375 Koapaka Street Suite H-420
Honolulu, HI 96819
Phone: (808) 838-2841
FAX: (808) 838-2860
Toll-Free Number: 1-866-4USDAWS
(1-866-487-3297)
E-mail: mike.e.pitzler@aphis.usda.gov
www.aphis.usda.gov/wildlife_damage/

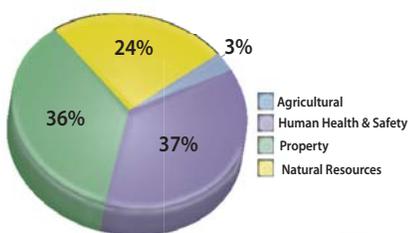
Major Cooperators

- U.S. Department of Defense
- U.S. Navy, COMNAVMAR
- U.S. Air Force, Andersen Air Force Base
- U.S. Department of Interior - Office of Insular Affairs
- U.S. Fish and Wildlife Service
- Government of Guam, Division of Aquatic and Wildlife Resources
- Guam Power Authority
- Port Authority of Guam
- Guam International Airport Authority
- Thirty-one, privately-owned freight forwarding companies

Total Funding (Millions)



Resources Protected % of Total Funds



USDA Resolves Wildlife Conflicts in Guam

Every day, Guam residents, industries, organizations, and agencies call on Guam Wildlife Services (WS) for expertise in protecting agriculture, property, natural resources, and human health and safety from damage or threats posed by wildlife. Managed by professional wildlife biologists, WS responds with effective and humane strategies to resolve wildlife conflicts.

The brown tree snake (BTS), a non-native, invasive species on the island of Guam, has caused severe economic and environmental problems, and public health concerns for the island's residents and industries. The BTS has decimated populations of most of Guam's native forest birds and lizards, a dramatic wide-scale destruction of native species unprecedented in modern ecological history. Snakes contacting electric power transmission lines have caused frequent power outages, resulting in millions of dollars in damage and lost revenue. Livestock producers have suffered losses from snakes preying on poultry and other small animals. Children and people sensitive to the snake's mild venom are threatened by the large number of snakes inhabiting urbanized areas on the island.

More significantly, BTS originating from Guam have been found throughout the Pacific region, associated with outbound commercial and military air and sea cargo. The abundance of snakes on Guam, coupled with the tendency of the BTS to hide in cargo, creates a significant threat to the biodiversity and economic security of the tropical Pacific. At the inception of WS BTS project in 1993, little was known about the dynamics of BTS biology or its impact on Guam and potentially, other Pacific Island ecosystems. WS management and research has resulted in developing and conducting a BTS program that protects natural resources, human health and safety, agriculture, and property in Guam.

Applying Science & Expertise to Wildlife Challenges

In many instances, WS enables others to resolve wildlife conflicts through technical assistance, by providing information or equipment. However, when resolving these conflicts is beyond the means of the individual, WS provides direct assistance to manage wildlife damage where it is occurring. WS also conducts scientific research across the nation through the National Wildlife Research Center (NWRC) and its several field stations. NWRC conducts research to develop solutions to new problems posed by wildlife, and to ensure that WS specialists apply state-of-the-art science and technology.

While WS conducts a wide range of operational and research activities, a few in-depth examples are provided to highlight WS' role in endangered species protection and restoration, and BTS interdiction.

Protecting Endangered Species and Species Restoration—The role of WS in endangered species protection and restoration on Guam continues to develop. In cooperation with the U.S. Fish and Wildlife Service (FWS), the Guam Division of Aquatic and Wildlife Resources (DAWR), and the U.S. Navy, WS is helping to protect the remaining 500 endangered Mariana gray swiftlets, which reside in three caves located on Navy property. Beginning in 1999, WS demonstrated that the BTS, an agile climber, can reach and, therefore, prey upon swiftlets that nest and roost on the cave ceilings. Efforts to protect endangered Mariana grey swiftlets continued in 2009 and 2010, with the island's population now at the highest recorded level. Intensive brown treesnake control around the three nesting caves has resulted in enhanced swiftlet recruitment and is supporting plans for relocation of swiftlets to other previously used caves on northern Guam.

WS also partners with Andersen Air Force Base (AAFB), and the Department of Defense to operate approximately 1,000 traps to remove snakes in the Munitions Storage Area (MSA) at AAFB. The work supports efforts to recover native Guam wildlife, including federally endangered Mariana crows, Guam rails, and, eventually, Micronesian kingfishers.



United States Department of Agriculture
Animal and Plant Health Inspection Service

Protecting Multiple Resources Through Brown Treesnake Interdiction—WS' primary mission on Guam is to prevent BTS from reaching other tropical islands and the United States mainland. WS personnel in Guam use 17 canine teams to help BTS detection. BTS Containment efforts are focused at all commercial and military air and sea ports of exit, and 31 commercial freight forwarding warehouses. BTS populations around cargo and port facilities are reduced using specially designed snake traps, hand capture, and oral toxicants. Specially trained detector dogs are also used to inspect outbound cargo for any snakes that may have made their way into shipments bound for Hawaii, other Pacific Islands, or the U.S. mainland. WS specialists are available at all times to conduct snake inspections. In addition, WS has an active public education campaign consisting of videos, brochures, and live demonstrations. Since the project's inception, WS has removed an average of 7,000 snakes annually from Guam's ports of exit.

Looking to the Future

Interdiction activities - WS working in Guam is focused on preventing the inadvertent spread of the BTS to other Pacific Islands, Hawaii, and the U.S. mainland.

- Natural Resource protection - Endangered species including the Mariana gray swiftlet, Mariana crow and the Mariana fruit bat.
- Species restoration - Activities involving large-scale BTS control from areas designated for the re-establishment of the Guam rail and Micronesian kingfisher (Cocos Island).
- Protection of Guam's power infrastructure – BTS operational control at 17 individual transmission and distribution substations located throughout the island.
- Protecting human health and safety - Improving Guam residents' quality of life from BTS impacts (BTS trapping around military housing).

Guam Wildlife Services Funding

WS operates a cooperatively funded program. In addition to Federally allocated funds, the program also receives funding from cooperators with a vested interest in the program, including producers, private individuals, small businesses, and other Federal, State, and local government agencies. In most cases, these cooperators are in need of assistance to help resolve wildlife damage problems, or they have an interest in wildlife damage management.

Top 7 Major Assistance Activities in 2010:

- Interdiction activities to prevent the inadvertent spread of the BTS to other Pacific Islands, Hawaii, and the U.S. mainland
- Protecting endangered species including the Mariana gray swiftlet, Mariana crow, and the Mariana fruit bat
- Species restoration activities involving large-scale BTS control from areas designated for the re-establishment of the Guam rail and Micronesian kingfisher
- Protection of Guam's power infrastructure, including control at 17 individual transmission and distribution substations located throughout the island
- Development and implementation of biosecurity measures associated with the forthcoming military build-up on Guam
- Wildlife hazard management activities to prevent birds from striking aircraft
- Protecting human health and safety, and improving residents' quality of life from BTS impacts

Top 4 WS Research Projects of Interest to Guam in 2010:

- On-going research and development supported by the Guam WS program
- BTS trap design and strategies
- Development of oral toxicants; assess and refine the aerial application of acetaminophen-treated baits in cargo areas for control of BTS
- Development of artificial attractants for BTS