

FACT SHEET

Office of the Assistant Secretary of Defense (Health Affairs) **Deployment Health Support Directorate**

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Version 10-09-2002

Deseret Test Center Project SHAD

Magic Sword

Project Shipboard Hazard and Defense (SHAD) was part of the joint service chemical and biological warfare test program conducted during the 1960s. Project SHAD encompassed tests designed to identify US warships' and ashore installations' vulnerabilities to attacks with chemical or biological warfare agents and to develop procedures to respond to such attacks while maintaining a war-fighting capability.

The purpose of Magic Sword was to study the feasibility of an offshore release of *Aedes aegypti* mosquitoes and to obtain information on mosquito biting habits, mosquito trap technology, and operational and logistical problems associated with the delivery of mosquitoes to remote sites.

The Aedes aegypti mosquito is a main vector for various infectious diseases, including dengue and yellow fevers.

Uninfected mosquitoes were released from the USS *George Eastman* (YAG-39), off the coast of Baker Island and traps were placed on the island as part of the test. As part of an onshore biting study, volunteers were placed at specific locations and a designated number of vectors were released centrally. Volunteers recorded the number of bites received.

A thermal fog generator was used to eradicate the mosquito population on the island at the conclusion of the test. Mosquitoes were eradicated aboard ship through a combination of high heat and insecticide.

The Department of Defense (DoD) is providing this information, at the request of the Department of Veterans Affairs (VA), to assist the VA in providing healthcare services to qualified veterans and to assist veterans in establishing service connection for disability claims. The Deployment Health Support Directorate (DHSD) collected this information from multiple sources and requested that the military services declassify it to allow its public distribution. The VA accepts this information provided on location, dates, units and/or ships, and substances involved in this exercise, which DHSD extracted from classified DoD records, and will provide it to individual veterans as necessary, but the VA cannot verify its accuracy.

The trials for Magic Sword were conducted in the Pacific Ocean, on or in the vicinity of Baker Island, during May 1965.

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Test Name	Magic Sword (DTC Test 65-4)
Testing Organization	US Army Deseret Test Center
Test Dates	May 1965
Test Location	In the Pacific Ocean, on or in the vicinity of Baker Island
Test Operations	To study the feasibility of an offshore release of <i>Aedes aegypti</i> mosquitoes and to obtain information on mosquito biting habits, mosquito trap technology, and operational and logistical problems associated with the delivery of mosquitoes to remote sites.
Participating Services	US Navy, Deseret Test Center personnel
Units and Ships Involved	USS George Eastman (YAG-39)
Dissemination Procedures	Mosquitoes were released from the USS George Eastman near the coast of Baker Island.
Agents, Simulants, Tracers	Uninfected Aedes aegypti (mosquitoes).
Ancillary Testing	Not identified.
Decontamination	A thermal fog generator was used o eradicate the mosquito population on the island at the conclusion of the test. Mosquitoes were eradicated aboard ship through a combination of high heat and insecticide.
Potential Health Risks Associated with Agents, Simulants, Tracers	Aedes aegypti mosquitoes Aedes aegypti mosquitoes used in this test were not infected. Health effects at the time would be the usual swelling and irritation associated with mosquito bites. No long-term or latent effects would be expected.

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