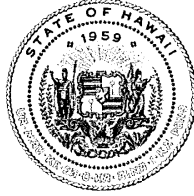


DAVID Y. IGE
GOVERNOR OF
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CONSERVATION AND RESOURCES ENFORCEMENT
ENGINEERING
FORESTRY AND WILDLIFE
HISTORIC PRESERVATION
KAHOOLAWE ISLAND RESERVE COMMISSION
LAND
STATE PARKS

EXEMPTION NOTICE

Regarding the preparation of an environmental assessment under the authority of
Chapter 343, HRS and Section 11-200.1-17, HAR

Project Title:	Mosquito Control Research Using <i>Wolbachia</i> -based Incompatible Insect Technique
Project Location:	<p>Maui</p> <ul style="list-style-type: none"> (2) 2-3-005:004: Waikamoi Preserve (2) 2-4-016:004: Waikamoi Preserve (2) 1-2-004:013: Hanawi Natural Area Reserve (2) 2-3-005:001: Haleakala National Park (2) 1-8-001:007: Haleakala National Park (2) 1-3-001:003: Haleakala National Park (2) 1-7-004:016: Haleakala National Park (2) 1-6-001:001: Haleakala National Park (2) 1-6-001:002: Haleakala National Park (2) 1-2-010:001: Haleakala National Park <p>Kauai</p> <ul style="list-style-type: none"> (4) 1-4-001:003: Alakai Wilderness Preserve (4) 1-4-001:013: Kokee State Park
Chapter 343 Trigger(s):	Use of State Funds and Lands
Project Description:	<p>The main objective of this project is to initiate research to inform incompatible insect technique applications for the control of invasive <i>Culex quinquefasciatus</i> mosquitoes which are the primary vector of avian malaria. The disease threatens the survival of remaining endangered forest bird species where they persist in high elevation montane forest habitat on Maui and Kauai.</p> <p>Male mosquitoes which have been given an incompatible strain of <i>Wolbachia</i> bacteria are to be released on the landscape, and upon release those males will breed with wild female mosquitoes. As a result of those pairings, the wild female mosquitoes will lay eggs which will not hatch, and no offspring will be produced. When releases of incompatible male mosquitoes are completed consecutively, the approach results in the suppression of mosquito populations at a landscape-scale. If releases are halted, mosquito</p>

	<p>populations will gradually return to pre-release levels as wild female and male mosquitoes migrate back into the treated area from surrounding forest habitat. Initial research will contribute to EPA registration of male <i>Culex quinquefasciatus</i> mosquitoes with <i>Wolbachia</i> as a biopesticide, as well as determine the minimum number of male mosquitoes that must be released in each area to ensure population suppression.</p> <p>This project may be funded by Federal sources.</p>
Consulted Parties:	U.S. Fish and Wildlife Service
Authorization:	November 13, 2015, Land Board submittal (C-6). Delegation of Authority to the Chairperson or their authorized representative to declare exempt from the preparation of an Environmental Assessment those Department actions which are included in the Department-wide exemption list when the Board of Land and Natural Resources has delegated the authority to conduct those actions.
Exemption Class & Description:	<p>Exemption Classes:</p> <p>General Exemption Type 5 <i>Basic data collection, research, experimental management, and resource and infrastructure testing and evaluation activities that do not result in a serious or major disturbance to an environmental resource.</i></p> <p>PART 1 13. Research that the Department declares is designed specifically to monitor, conserve, or enhance native species or native species' habitat. 16. Research to identify, monitor, control, or eradicate introduced species.</p> <p>Date of Agency Exemption List: November 10, 2020.</p>
Determination:	The Department of Land and Natural Resources declares that this project will likely have minimal or no significant impact on the environment and is therefore exempt from the preparation of an environmental assessment under the above exemption classes.

DES

Suzanne D. Case

Jun 17, 2022

Suzanne D. Case, Chairperson
Board of Land and Natural Resources

Date

Signature:



2

Email: david.g.smith@hawaii.gov