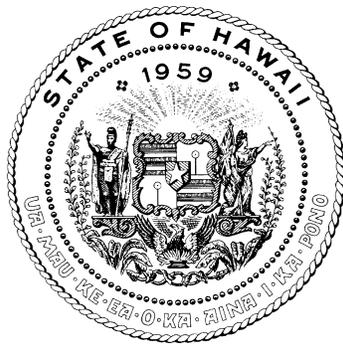


**REPORT TO THE THIRTY-FIRST LEGISLATURE
STATE OF HAWAI‘I
2022 REGULAR SESSION**

**RELATING TO THE WILDLIFE REVOLVING FUND
FISCAL YEAR 2021**



Prepared by

THE STATE OF HAWAI‘I
DEPARTMENT OF LAND AND NATURAL RESOURCES

In response to Section 183D-10.5, Hawai‘i Revised Statutes

November 2021

**RELATING TO THE WILDLIFE REVOLVING FUND
FISCAL YEAR 2021**

PURPOSE

The goal of the Wildlife Revolving Fund (WRF) is to provide funds to manage and enhance public hunting opportunities in Hawai'i. Act 290, Session Laws of Hawai'i 1991, amended Section 183D-10.5, Hawai'i Revised Statutes (HRS), by adding a requirement for an annual report to be prepared by the Department of Land and Natural Resources (Department) on the status of the WRF and transmitted to the Legislature no later than twenty days prior to the convening of each regular session. Reporting requirements include:

1. The source and application of monies deposited into the fund, including a description of the criteria and process used to determine funding priorities;
2. A description of programs and activities supported by the fund;
3. A summary of program highlights and accomplishments; and
4. A description of future program plans, including specific goals and objectives.

FUNDS

Section 183D-10.5(b), HRS, provides that the following proceeds shall be retained by or transmitted to the Department for deposit into the WRF:

1. Moneys collected as fees for hunting licenses, attendance of hunter education training programs, and use of public target ranges.
2. Moneys collected under the provision of any law relating to the importation, taking, catching, or killing of game, wildlife, and products thereof.
3. Moneys, other than informers' fees authorized under Section 183D-11, HRS, collected as fines or bail forfeitures for violation of Chapter 183D, HRS, or any provision of Chapter 195D, HRS, concerning wildlife conservation; and
4. Moneys collected from the sale of:
 - A. Any article, in addition to a hunting license, which a person is required to purchase from the Department in order to hunt, when the requirement is established by law or rule; and
 - B. Any work of art upon which the article under 4.A is based.

For Fiscal Year (FY) 2021 the major source of revenue was hunting license sales followed by the sale of game tags. Revenues exceeded the Department's authorized budget ceiling for the WRF of \$645,490.00. New expenditures totaled \$393,915.76. The cash balance at the end of FY 2021 amounted to \$754,776.28, with outstanding encumbrances of \$244,181.47 resulting in unencumbered cash for carryover of \$510,594.81

Status of S-343

Beginning cash balance of fund on July 1, 2021	\$678,659.71
Revenues during FY 2021	\$408,197.57
Cash Transfer from FY 2020, 19, 13	\$753,676.28
Expenditures during FY 2021	(\$393,915.76)
Cash balance as of June 30, 2021 Unpaid	\$753,676.28
Encumbrances as of June 30, 2021	(\$244,181.47)
Journal Voucher	\$1,100.00
Unencumbered cash for carry over as of June 30, 2021	\$510,594.81

Summary of Revenues FY 2021

Hunting guide license and lottery	\$1,600.00
Game bird farmer licenses	\$300.00
Hunting licenses with wildlife conservation stamp	\$282,394.00
Wildlife Conservation stamps	\$2,964.00
Game bird stamps	\$53,089.50
Game tags	\$58,340.00
Interest and Refund /reimbursement of prior period expenditures	\$9,509.57
Total Revenue for FY 2021	\$408,197.07

Summary of Expenditures FY 2021

Personnel	\$198,347.83
Operations	\$140,051.15
Indirect costs	\$55,515.85
Total Expenditures	\$393,914.83

Summary of Outstanding Claims FY 2021

Operations Claims	\$188,938.25
Amount expended	\$21,544.78
Prior contract balance 2019, 2013	\$76,788.00
Total remaining balance if outstanding claims and contracts	\$244,181.47

HUNTING LICENSE SALES OVERVIEW

Overall, Hawai‘i hunting license sales and sales of non-resident licenses have shown an increasing trend since a low was recorded in 2005 and 2007 (Figure 1 and 2). Revenue from license sales is deposited into the WRF and used to benefit game management and hunting programs, and other wildlife management projects as needed.

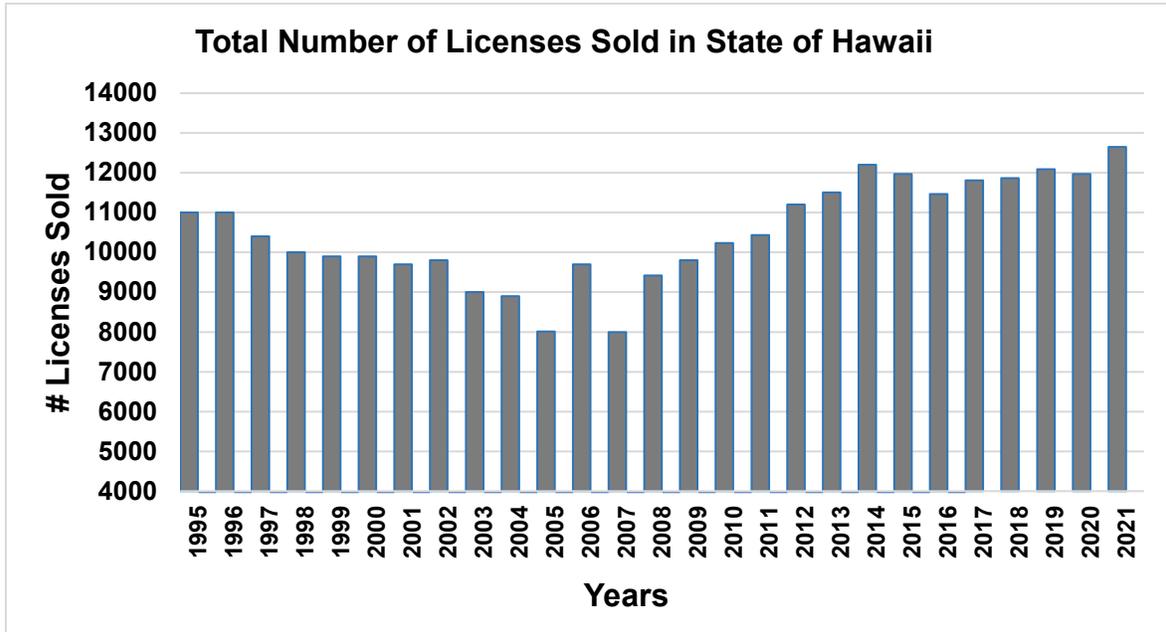


Figure 1. The total number of hunting licenses sold in the State of Hawai‘i per fiscal year (1995 – 2021).

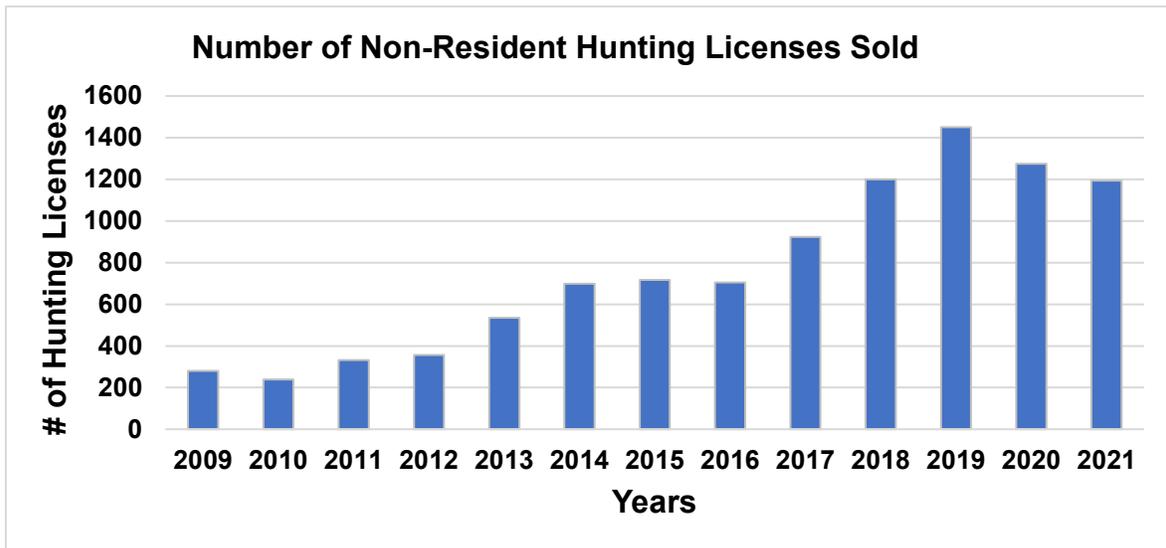


Figure 2. The total number of non-resident hunting licenses sold per fiscal year (2009 – 2021).

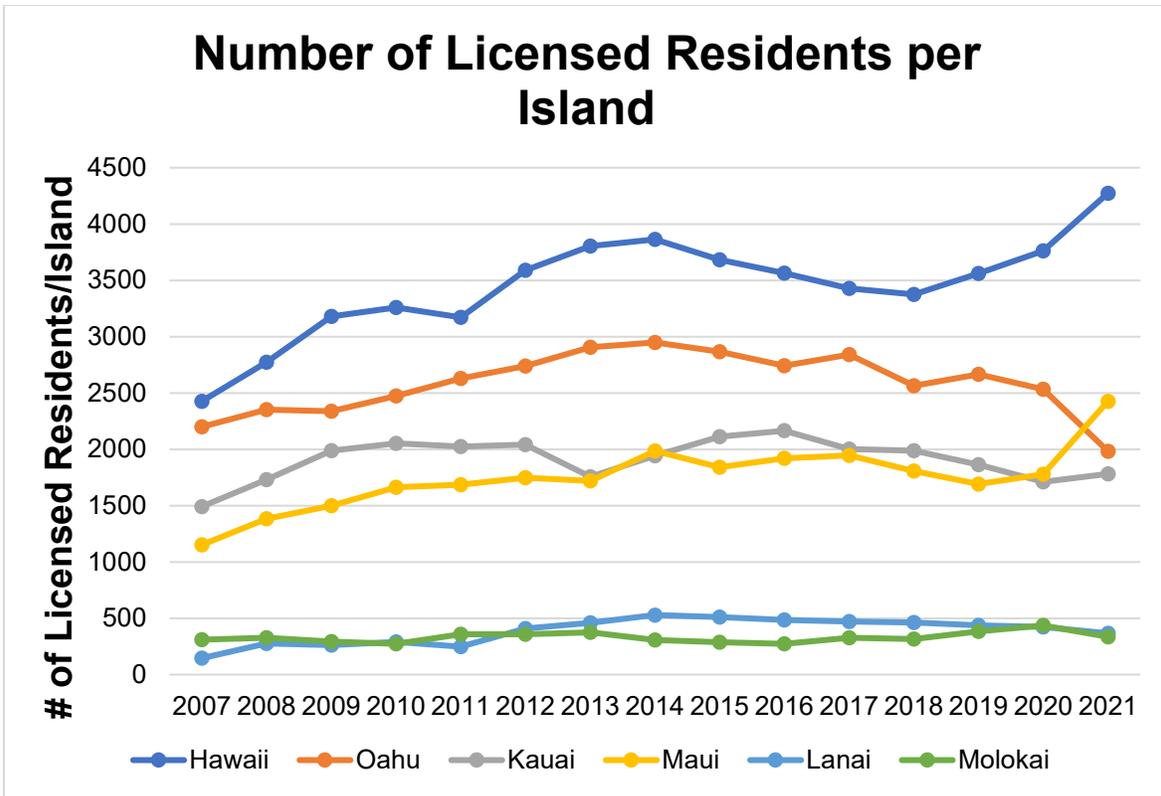


Figure 3. The total number of residents with a hunting license per island for fiscal years 2007– 2021.

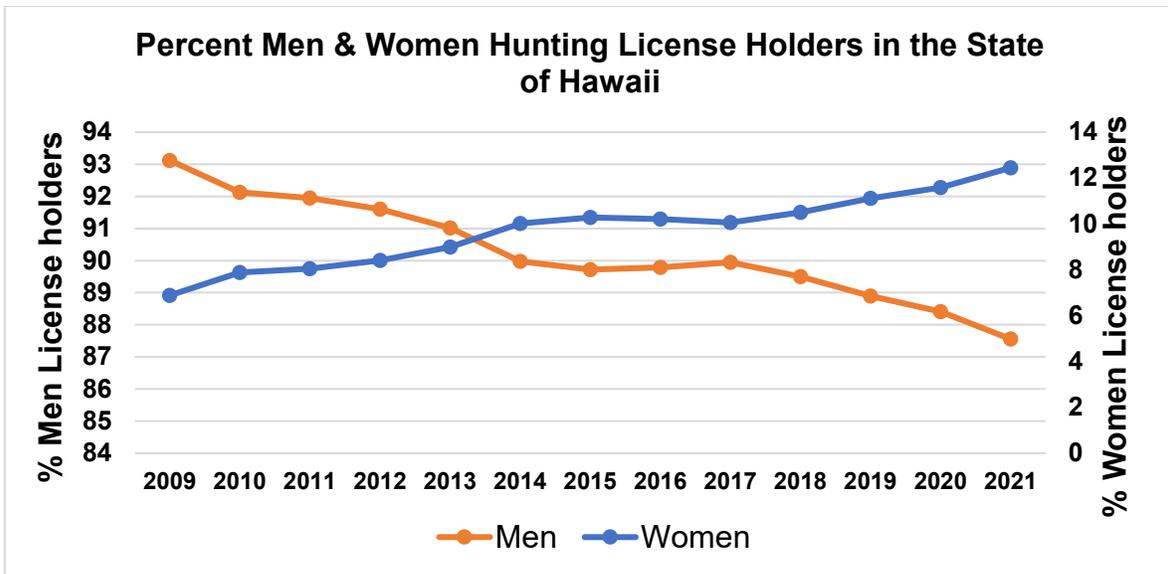


Figure 4. Percent men and women license holders in the State of Hawai'i for fiscal year 2009 – 2021.

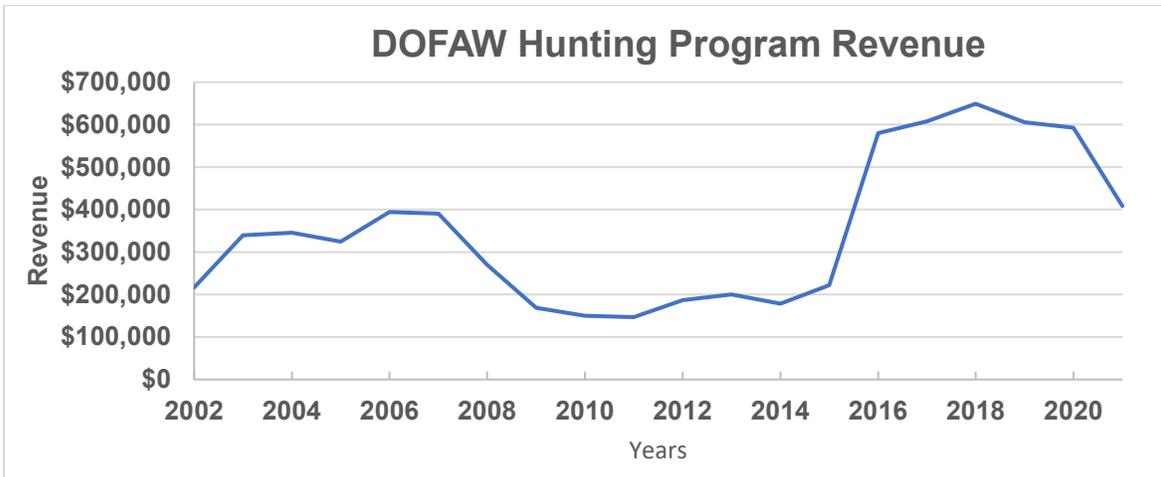
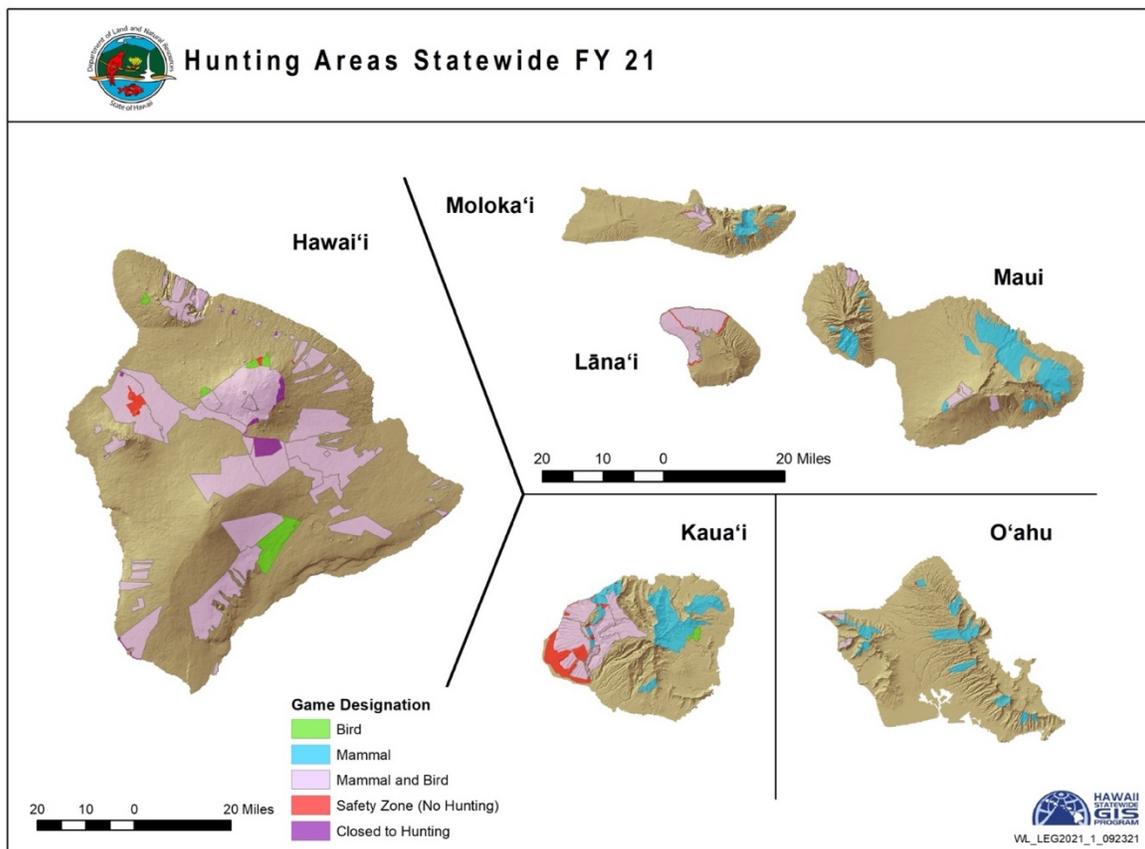


Figure 5. Revenue derived from the WRF for fiscal year 2002– 2021.



KAUA'I BRANCH (for maps and photos see Exhibit 1.)

Funding was used to manage habitat for game birds, and maintain infrastructure designed to facilitate game bird hunting. Specific activities included:

- Funded a Project Assistant through the Research Corporation of the University of Hawai'i (RCUH) to assist the Game Program Biologist in habitat management. Activities included range mowing; game bird propagation; maintaining access locks and gates to control hunting areas; field operations to manage and maintain game mammal and bird habitat; assist in predator control in and around the GMA; planning, coordination, and logistics for hunting program management.
- Gamebird Propagation: Import game birds for rearing and release; construct and maintain watering units, brooder and fly pens; purchase food and other material to support live birds.

Habitat Management and Operations

- Repaired and maintained tractors, mowers, and equipment used for road and habitat maintenance activities (Kekaha GMA, Wailua GMA and Unit L). Purchased supplies for power tools used to maintain access infrastructure and roads.
- Maintained 250 acres of game bird habitat and traversable hunting grounds with tractors and various mower attachments. Created 15 new acres of game bird habitat in Wailua GMA.

Game Bird Propagation

- Successfully imported 500 ring-necked pheasants and 150 melanistic blue pheasants for the upcoming FY 2021-2022 game bird season (Kekaha and Wailua GMA).
- Set up and maintained a 12'x24' walk-in brooder water system, and feeder systems. Set up isolation hospital pen for weaker chicks.
- Maintained one fly pen (150' x 100') and a watering unit for game bird propagation project with volunteer hunters.

O‘AHU BRANCH *(for maps and photos see Exhibit 2.)*

Game Management

Funding was used to manage habitat for game birds, and maintain infrastructure designed to facilitate game bird hunting:

Funded a biological technician through the Research Corporation of the University of Hawai‘i (RCUH) to assist with various game related projects, including:

- Funded a Project Assistant through the Research Corporation of the University of Hawai‘i (RCUH). The primary function for this position was to assist the Game Program Biologist in:
 - Processing and issuing permits for ungulate-control hunting opportunities in forest reserves and other state lands that are not open to public hunting.
 - Game bird propagation project operations.
 - Maintaining access locks and gates to control hunt areas.
 - Field operations to manage and maintain game bird habitat.
 - Procurement of goods and services related to field operations.
 - Planning, coordination, and logistics for hunting program management.

Gamebird Propagation

- Import game birds for rearing and release.
- Construct and maintain watering units, brooder and fly pens.
- Purchase food, fodder, and other material to support live birds.

Hunter Access and Wildlife Control Permits

- Developed, maintained, and utilized online permit application process for the issuance of permits to increase Oahu hunting opportunities.
- Investigate and determine need for issuance of permits to alleviate crop or natural resource damage on Oahu.

Habitat Management and Operations

- Repaired and maintained tractors, mowers, and equipment used for road and habitat maintenance activities (Kuaokala GMA). Purchased supplies for power tools used to maintain access infrastructure and roads.
- Maintained 26 acres of game bird habitat and traversable hunting grounds with tractors and various mower attachments. Expanded on 15 new acres of habitat and traversable hunting grounds in Kuaokala GMA.

Game Bird Propagation

- Maintained and repaired four brooder cages from previous years. An additional two new brooder cages were created alongside with one new design using a feeder trough to regulate temperature better.
- A more permanent structure was built for a game bird brooder house to house incoming game bird chicks, feed, rearing supplies, and brooder cages.

- One fly pen (30' x 60') and a watering unit was maintained and repaired for game bird propagation project with volunteer hunters.
- Two new fly pens (30'x60' and 10'x20') were constructed with volunteer bird hunters and DOFAW staff at a volunteer agriculture site in Mokuleia, North Shore of Oahu.

Challenges

- Unable to import game birds or purchase bags of feed for FY 2020-2021 due to the COVID-19 Global pandemic restricting the project and its needs.

Preparation for FY 2021-2022

Successfully imported 109 ring-necked pheasants, 105 melanistic blue pheasants, and 105 Chukar Partridge for the upcoming FY 2021-2022 game bird season. (Kuaokala GMA). Birds will be released through the season



Hunter Access and Wildlife Control Permits

New hunting accesses via a DOFAW Wildlife Control Permit include:

WCP Project Area	Number of Permits Issued
Board of Water Supply: Makaha Valley	6
Honouliuli FR	1
Manoa-Tantulus Section	24
Moanalua Section	22
Pia Valley Natural Area Reserve	2
Waianae Kai FR – Restricted Watershed	3
Waimanalo Forest Reserve	19
Poamoho Section Vehicle Access Permit	143

MAUI BRANCH (for maps and photos see exhibit 3.)

Lease of the Lāna‘i Cooperative Game Management Area

- The annual lease rental for the Lāna‘i Cooperative Game Management Area (CGMA) was paid via WRF monies. This area provided hunters the opportunity to pursue Axis deer, Mouflon sheep, and a variety of game birds.

Game Mammal Aerial Survey - Lāna‘i

- Due to the Covid-19 pandemic, no fall aerial survey was conducted on the island of Lanai. Maui staff did conduct a spring game mammal survey on the island of Lanai on March 9 and 10, 2021. Associated costs for the spring survey included travel expenses.

Personnel Expenses - Lāna‘i

- A Forestry and Wildlife Worker II position on Lāna‘i, funded through the WRF, assisted the Forestry and Wildlife Technicians with the upkeep and maintenance of 30 miles of water unit pipeline, 25 water units, a multitude of signs, and 54 miles of access roads in the CGMA. The Forestry and Wildlife Worker II also supports habitat management, game bird and game mammal surveys, enclosure maintenance, and predator control.
- Limited funds were spent on overtime for the 2020 Axis deer and Mouflon sheep season due to the Covid-19 pandemic. Most of the 2020 Axis deer season was cancelled and no Mouflon sheep season was held.

Management of the Lottery Hunts - Lāna‘i

- Due to Covid-19, the public was required to apply for the combination Axis deer/Mouflon sheep hunt online. Annual service fees were paid to the host of the online site for Lanai hunt applications. A lottery was conducted at the DLNR/DOFAW base yard, and all successful applicants were mailed an application card. No conference rooms were rented to conduct the lottery. Additional doe tags were purchased in preparation for the 2021 hunting season. The application and lottery online programs will be enhanced to allow duplicate applicant searches for all hunts and adding an additional feature allowing staff to end the lottery without conducting draws for standby.

Game Mammal Facilities Operations and Maintenance – Maui District

- Two dumpsters were rented for the combination Mouflon sheep/Axis deer hunt that provided the hunting community with the facilities to dispose of animal carcasses. Hardware items were purchased to maintain infrastructure within the Lanai Cooperative Game Management Area. New water troughs were purchased and shipped to Lanai to be used to replace damaged, leaking, or inefficient troughs. Vehicle repairs were charged to this fund, ensuring staff vehicles were available, maintained and repaired for completing wildlife projects and facilities. A 20’ storage-type container was purchased for the island of Maui.

EAST HAWAI'I (for maps and photos see exhibit 4.)

General Laborer Position

- Work accomplished included habitat management, predator control, light construction for predator trapping and facilities maintenance, up-keep of hunter check stations and shooting area.

Commissions on Hunting License Sales

- Hunting licenses were sold at various vendor locations providing convenience to public hunters. (The addition of one vendor in Hilo area mostly due to COVID-19)

Mile Marker 16 Shooting Range

- The Division of Conservation and Resources Enforcement and DOFAW assisted with maintenance and management of the range.

Game Operations and Maintenance

- WRF monies were used to pay utility bills, supporting the administrative side of the game program, and to support existing game bird rearing fly way. The purchase of game bird chicks for 2021 fiscal year was cancelled due Covid and shipping issues.

WEST HAWAI'I (for maps and photos see exhibit 4.)

Game Operations and Maintenance

- The part-time General Laborer position funded by the WRF preformed predator control trapping in Pu'u Wa'awa'a Forest Reserve and Mauna Kea Forest Reserve from July 2020 through 2021. There were 103 mongooses and 15 cats trapped at Pu'u Wa'awa'a Forest Reserve. Roads and firebreaks were maintained to improve hunter access to Pu'u Wa'awa'a Forest Reserve and Pu'u Anahulu Game Management Area.

Game Program Research

- Collars that were placed on sheep in Puu Waawaa and Puu Anahulu in 2018 continued to be monitored in 2020-21. Data from this project continued to show that adult sheep in the study area had an apparent annual survival rate of 95%. The most common cause of mortality was predation by wild dogs. Camera traps were also used to estimate population sizes for sheep and goats. The population of sheep was estimated to be 918 (95% Confidence Interval [543-1551]).

Game Program Coordination

- The district's Secretary assisted with hunting license sales training of vendors in Kona. During anticipated increase in hunting license sales traffic at these establishments, the Secretary assisted with license sales and dissemination of information pertinent with upcoming seasons.

ADMINISTRATION *(for maps and photos see exhibit 5.)*

Notification of Hunting Season Openings and Changes

- Several legal notices announcing new animal control opportunities for hunters were produced, and a series of announcements and news releases were produced for hunting seasons. The Lāna‘i Mouflon and Axis deer hunt was canceled due to the global pandemic. All other regular hunts were conducted state-wide.

Implementation of Communication Strategies to Improve Hunter Recruitment and Retention

- The quarterly informational newsletter has been published since October 2017. The *Go Hunt Hawai‘i* newsletter is an informational newsletter to connect hunters and DOFAW resource managers. This newsletter is available online on the DOFAW website.
- A listserv was created for those who are interested in signing up to receive hunting related updates, announcements, and newsletter. There are now 10,497 people signed up on this mailing list. People may sign up online (dlnr.hawaii.gov/recreation/hunting/). Sign-up sheets are also available at all DOFAW offices and at every hunter education class.

Public Engagement in Game Management

- 73 transects were selected at Kapapala and 68 selected on Mauna Kea. Surveys are conducted with and without dogs each year. Data has shown that using dogs produces more accurate estimates of game birds than without the use of dogs. In 2021 the game bird survey for Mauna Kea and Kapapala were entered and engineered into a ESRI Survey 123 application so that surveyors can electronically enter data when conducting field surveys. The Mauna Kea game bird area was not surveyed in 2021; Kapapala was completed. The use of volunteers was limited due to COVID-19.

Hunting License Sales Coordination

- Clerical staff assisted with license sales and dissemination of information pertinent for upcoming season information.

Outdoor Hunting and Trails Mobile Application

- Continue contract administration and project development with Trailhead Labs, Inc., for the creation, deployment, and maintenance of a hunting and trail program mobile application. Application was launched in July 2021. <https://dlnr.hawaii.gov/dofaw/app/>

Electronic Hunting Tags and Permit System

- Continue project development and beta testing with the vendor (NIC) for the online hunting tag and permit portal. The online tags and permits system will be available to public for purchase in November 2021.

Planning documents

- Funding was leveraged from the Wildlife Revolving fund to assist in the completion of the Lāna‘i Steering document. In April 2021 the document was completed and delivered to the natural resource team at Pulama Lāna‘i. DOFAW and Pulama Lāna‘i will work together to reach goals set forth in the document which will assist in the creation a long-term island-wide management agreement. The Division of Forestry and Wildlife is interested in continuing a long-term management agreement for the LCGMA which will provide 1) economic benefits to the landowner and community of Lāna‘i; 2) recreational benefits and opportunities to public hunters on Lāna‘i and state-wide; and 3) a sustainable long-term game management program in balance with natural and cultural resources on the LCGMA. The framework on this long-term, sustainable game and natural resource management program is presented in the steering document.

WILDLIFE REVOLVING FUND

EXPENDITURES

Table 1. Operating, personnel, claims, and contracts per branch or district.

Oahu Administration	Expenditures & Claims	Maui	Expenditures & Claims
Operating	\$51,256.25	Operating	\$53,395.34
Personnel	\$16,040.75	Personnel	\$11,575.26
Claims	\$16,490.00	Claims	\$91,728.00
Contracts	\$0.00	Contracts	
Total	\$ 83,787	Total	\$ 156,698.60
Oahu			
Operating	\$35,078.07	Operating	\$0.00
Personnel	\$999.58	Personnel	
Claims	\$3.38	Claims	
Contracts		Contracts	
Total	\$ 36,081.03	Total	\$ 0.00
Molokai			
Operating	\$3,324.67	Operating	\$28,888.81
Personnel	\$0.00	Personnel	\$74,697.21
Claims	\$0.00	Claims	\$0.00
Contracts		Contracts	
Total	\$ 3,324.67	Total	\$ 103,583.02
West Hawaii			
Operating	\$12,399.02	Operating	\$14,639
Personnel	\$36,020.39	Personnel	\$62,154.35
Claims	\$1177.16	Claims	\$5,367.13
Contracts		Contracts	
Total	\$ 49,596.75	Total	\$ 82,160.48
East Hawaii			
Operating	\$12,399.02	Operating	\$14,639
Personnel	\$36,020.39	Personnel	\$62,154.35
Claims	\$1177.16	Claims	\$5,367.13
Contracts		Contracts	
Total	\$ 49,596.75	Total	\$ 82,160.48
Kauai			

Island	Item	Resident	Non-resident
All islands statewide	Hunting License*	\$10	\$95
	Wildlife Conservation Stamp	\$10	\$10
	Game Bird Stamp	\$10	\$10
	Spring Turkey Tags	\$5	\$20
Kaua'i	Black Tailed Deer Hunts Rifle Tag Application	\$5	\$5
	Rifle Tag	\$10	\$25
	Muzzleloader Permit-Tag	\$5	\$25
	Archery Permit Tag	\$5	\$25
	Feral Goat Hunts Rifle Lottery Tag Applications (Unit B)	\$5	\$10
	Rifle Lottery Tags (Unit B)	\$10	\$25
	Muzzleloader Permit-Tags (Units A & F)	\$5	\$25
	Annual Archery Permit (Units G, F, & K)	\$5	\$25
	Feral Pig Hunts Season Permit	\$5	\$25
	Special Hunts Application	\$5	\$5
	Goat/Deer/Pig Permit (Units E & H)	\$10	\$25
Goat/Pig Animal Control (Unit G)	\$5	\$25	
Lāna'i	Mouflon Sheep Season Lottery Application	\$10	\$10
	Mouflon Sheep Season Tag	\$20	\$125
	Axis Deer Season Lottery Application	\$10	\$10
	Axis Deer Season Tag	\$20	\$125
Hawai'i	Pu'u Wa'awa'a Feral Sheep or Goat Tag	\$10	\$25
	Pu'u Anahulu Feral Sheep or Goat Tag	\$10	\$25

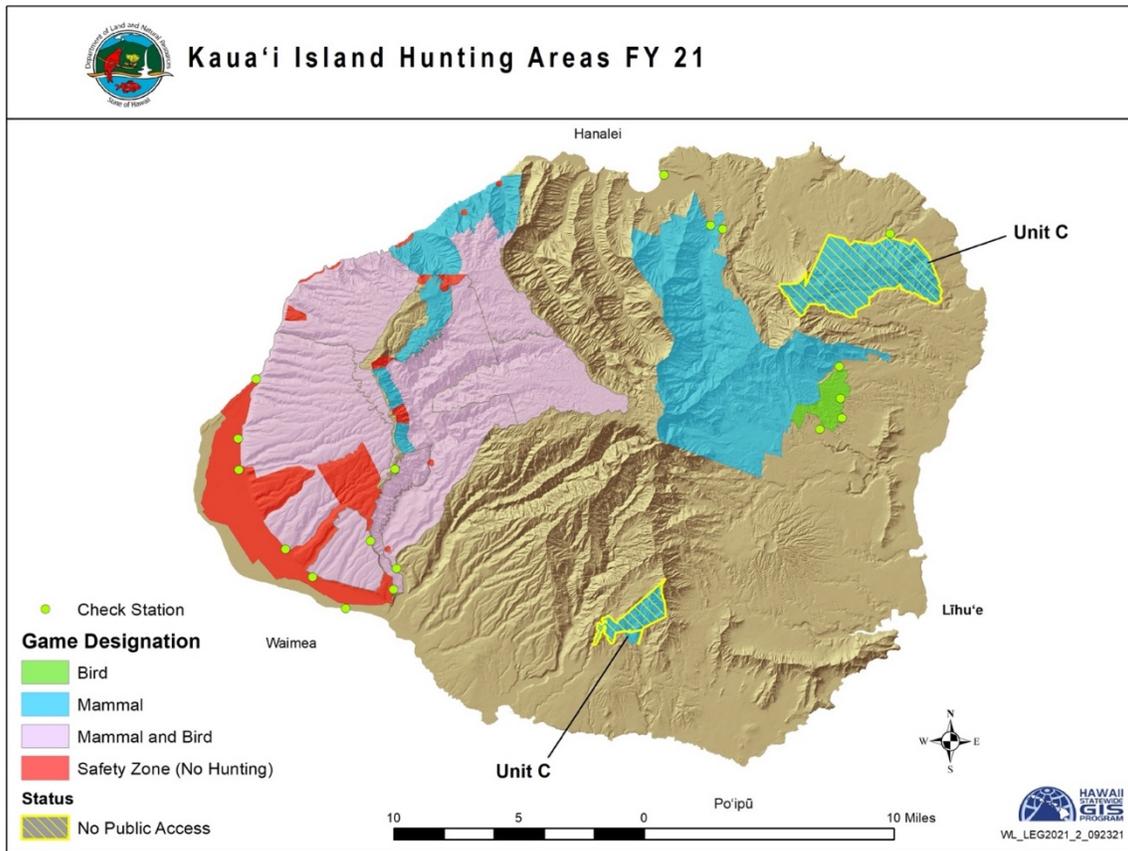
Table 2. Fee schedule for hunting licenses, wildlife stamps, applications, permits, and tags for special or lottery hunts.

*Free to all Hawai'i residents 65 years or older and to all persons with Hansen's disease who are residents of Kalaupapa, Moloka'i.

ATTACHMENT I: WILDLIFE REVOLVING FUND EXPENDITURE CATEGORIES

1. Development, improvement, and management of existing and new public hunting and game management facilities including installing or maintaining hunter access roads, checking stations, fences, gates, stiles, cattle guards, entry/safety/boundary signs and markers, parking lots, sanitary facilities, water tanks, and campsites.
2. Development, improvement, and management of existing and new wildlife sanctuary facilities including fences, moats, water control structures, pumps, ditches, nesting sites, holding pens, boardwalks, viewing kiosks, watering devices, parking lots, sanitary facilities, and entry and interpretive signs.
3. Wildlife habitat improvements including game bird and mammal watering units, food plots, vegetation clearing and mowing; non-game/endangered species enclosures, exclosures, noxious weed control, mowing and nest sites; and wildlife predator control, water quality testing, and rehabilitation.
4. Personnel hires for wildlife management and hunter education including Wildlife Management Assistants and General Laborers (for hunter checking station operation, public hunting area management, pest plant control, predator control, habitat development, and posting signs and markers), computer technicians (for public hunting lotteries), and hunter education specialists.
5. Wildlife management equipment including tractors, bulldozers, all-terrain vehicles, collecting arms, radios, outboard motors, small boats, binoculars, trucks, and 4-wheel drive vehicles.
6. Development and operation of public shooting ranges in conjunction with the Hunter Education Program.
7. Research, surveys, and inventories for game and non-game/endangered species, including rental of helicopters, infrared technology, temporary hires, equipment rental, materials and supplies, and contracts for studies (game birds, forest birds, waterbirds, seabirds, Hawaiian bat, owls, disease, genetics, food habits, ungulates, limiting factors, etc.).
8. Public education on wildlife management including development of the “Wilderness Watch” program, providing maps and area informational leaflets, interpretative facilities at game management areas and wildlife sanctuaries, and technical assistance to the public on wildlife management.
9. Rental of land for public hunting and wildlife management.
10. Law enforcement.

Exhibit 1.



Kekaha GMA Range mowing.



Wailua GMA range clearing



Walk-in brooder water system and feeder systems

Day 1

Day 36



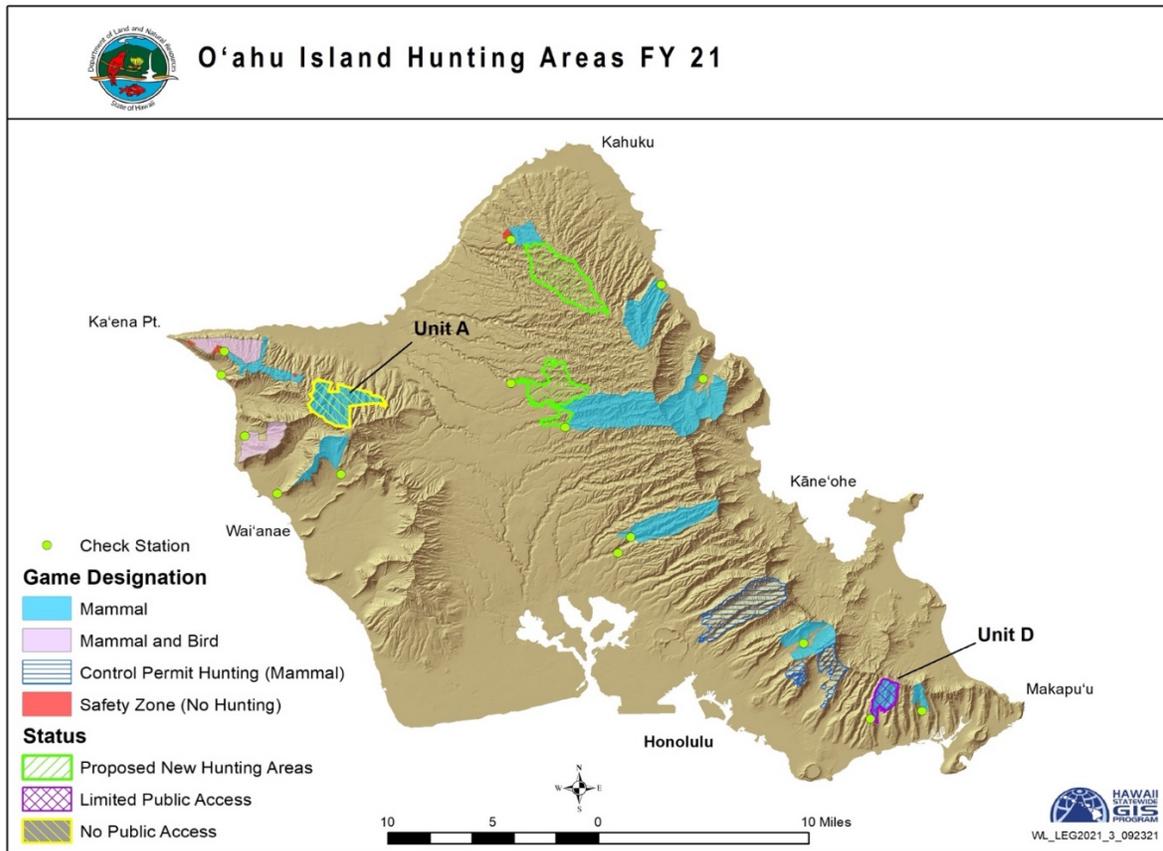
New Pen constructed on Kolo Ridge in the Kekaha GMA.



New fly pen constructed on Kahelu Ridge in the Kekaha GMA



Exhibit 2.



Kuaokala GMA, Oahu



Brooder Cages, Oahu



New game bird brooder house (Oahu)



Fly pen and watering units, Oahu



Exhibit 3

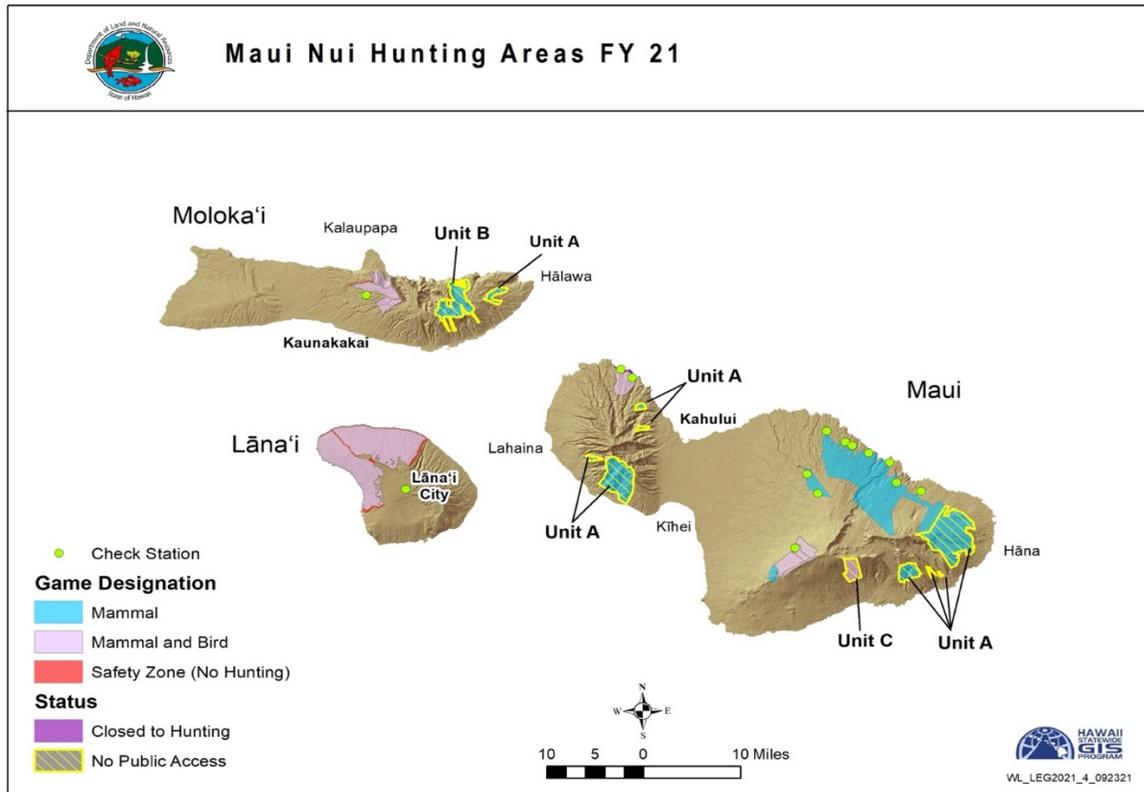


Exhibit 4.

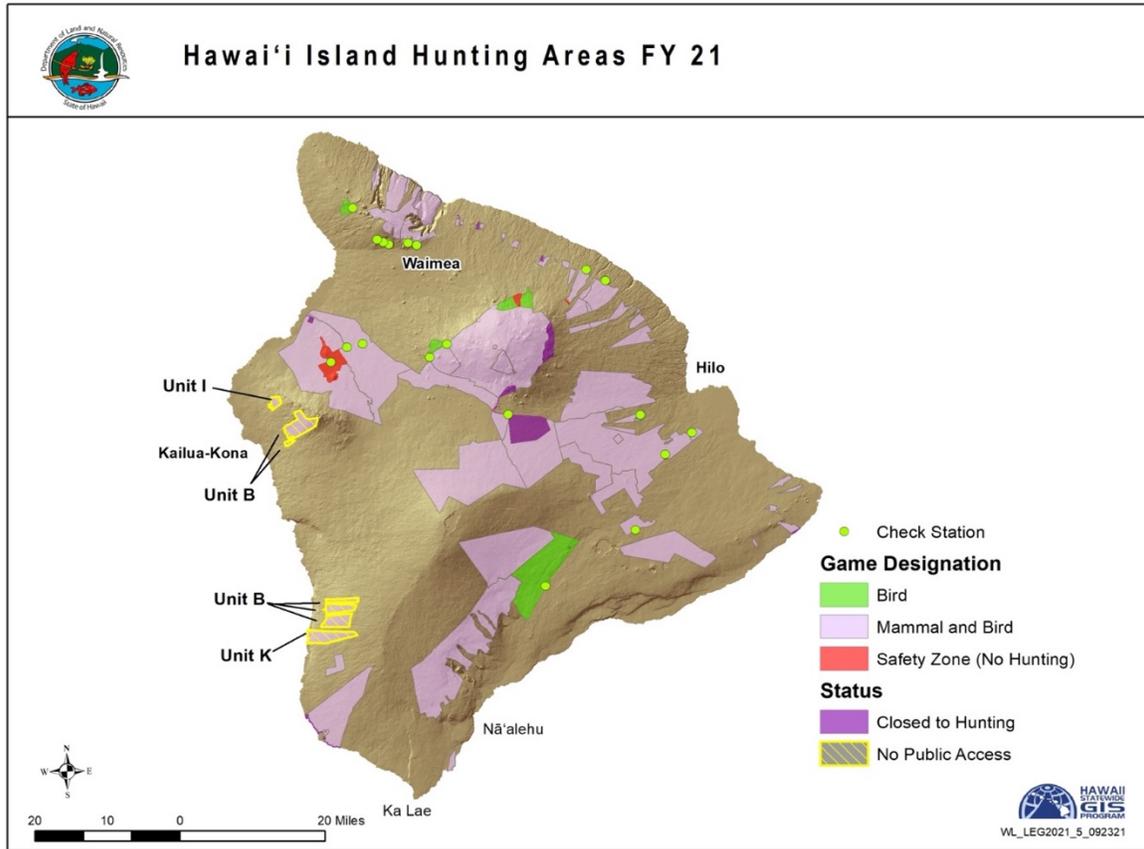


Exhibit 5.

Go Hunt Hawai'i Newsletter (Oct, 2019 & Nov. 2020)



This is the eleventh edition of Go Hunt Hawai'i, a quarterly newsletter to connect hunters and the Department of Land and Natural Resources (DLNR), Division of Forestry and Wildlife (DOFAW). Sign up to stay up to date on announcements, changes to hunting areas, research on animal populations and more.

This is the twelfth edition of Go Hunt Hawai'i, a quarterly newsletter to connect hunters and the Department of Land and Natural Resources (DLNR), Division of Forestry and Wildlife (DOFAW). Sign up to stay up to date on announcements, changes to hunting areas, research on animal populations and more.

Collaboration on Game Bird Projects

Many hands have been involved with game bird rearing and release projects on Kauai and Oahu. From volunteer hunters to Division of Forestry and Wildlife staff and Kapaemahu Corps members, all play an important role, including picking up the chicks from the airport, building pens to house the birds, and daily feeding.

There are three main stages to the projects since the chicks arrive from the mainland. First, they settle in brooder cages. Then, they are transferred to game bird fly pens. Once mature, the birds will be released before game bird season, which starts in November.



- The Division of Forestry and Wildlife would like to thank the volunteers who helped with these projects:
- | | |
|------------------------|------------------------|
| Oahu Volunteers | Oahu Volunteers |
| Edgar Anderson | David Flegg |
| Cory Cameron | Jacob A. Chao |
| Chad Coscarilla | Steven H. Chao, Jr. |
| Chris Cuccinelli | James C. Clark |
| Quinn Coscarilla | Robert Akiba Garrison |
| Michelle Heath | John Hightower |
| Christie Gill | James Hume |
| Sammy Gill | Geoffrey Lau, Jr. |
| Harold Hultman | Cheryl Lee |
| Amy L. Hurst | John L. Lohr |
| Chris Linneman | Shirley Lohr |
| Laurie S. Linneman | Tim Menden |
| Mark Longenecker | Mark Roberts |
| Kevin M. Longenecker | Brian D. Tokunaga |
| Michelle Wilcox | Ernest Tom |
| | Justin Thiel |

On Oahu, a total of 212 ring-necked pheasants arrived in July. Birds will be released at the Kuakula Game Management Area. On Kauai, 600 ring-necked pheasants and 150 melanotic migrant pheasants arrived in June. Staff and volunteers worked hard to rear the game birds, but unfortunately the pheasants on Kauai died from botulism while being housed in the fly pens.

For season length, bag limits, and other information for game bird hunts throughout the state, please see Title 28, Chapter 224, "Hikes, Regulating Game, Bird Hunting, Field Trials, and Commercial Shooting Preserves."

Game Bird Surveys at Mauna Kea and Kapapala GMA

Dr. Javier Cotin and DOFAW biologists Kanalu Sprout and Ian Cole began the annual game bird surveys at Mauna Kea and Kapapala Cooperative Game Management Area (GMA). Hunters from Oahu and Big Island recently surveyed with the aid of dogs at both Mauna Kea and Kapapala GMA.



For Kapapala, 73 transects were selected and divided in 8 sections. Most transects were set along open roads or paths, due to the dense vegetation that most of the Kapapala Forest reserve presents. For Mauna Kea, 68 transects were selected and divided in 9 sections. Transects were off trail but following previous transects already marked designed for Palla surveys.

Surveys have been conducted with and without the use of dogs. However, data has shown that dogs produce more accurate estimates of game birds than without the use of dogs. Thirteen species of game birds have been detected throughout the surveys with Erkel's francolins being the most abundant. The most recent survey data is currently being analyzed for review by DOFAW staff.



A big thank you to all of our hunters and their dogs that came out to participate!



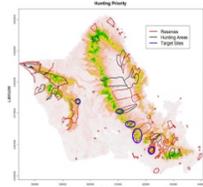
This is the thirteenth edition of *Go Hunt Hawaii*, a quarterly newsletter to connect hunters and the Department of Land and Natural Resources (DLNR, Division of Forestry and Wildlife (DOFAW)). [Sign up](#) to stay up to date on announcements, changes to hunting areas, research on animal populations and more.

[SIGN ME UP](#)

DOFAW IDENTIFIES IMPROVED METHODS FOR FERAL PIG MANAGEMENT IN THE HAWAIIAN ISLANDS

The Division of Forestry and Wildlife manages one million acres of land for the protection of forested watersheds, management of habitats for native species and ecosystems, promotion of sustainable production of forest resources, and administration of an outdoor recreation program to include trail activities and public hunting. In the first quarter of 2017, DOFAW released a study conducted by the University of Hawaii's Department of Natural Resources and Environmental Management research team to determine the distribution of feral pigs on Oahu. The study assessed the effectiveness of exclusion and direct take methods, the key strategies that are currently used to manage feral pigs across the State. The data gathered has provided valuable information that will allow DOFAW to institute strategic and systematic planning in their efforts to identify high value hunting areas, and to determine where exclusion fencing will be the most beneficial to the conservation priorities of the Division.

This research has provided DOFAW a tool which can assist landowners, land managers and hunters. The data collected can also be utilized to obtain federal funding in order to assist landowners and land managers in addressing land degradation and watershed conservation priorities.



Potential new areas in existing state land which would make good hunting areas given their high pig density and low conservation conflict. Locations where good hunting areas occur on state land are bounded in blue circles. Credit: Jeremy Ringma, Ph.D., Derek Risch and Melissa Price, Ph.D., University of Hawaii.

Not Just Trails

Discover places to take the entire family - and your dog!

New Recreational Trail and Hunting Mobile Application

Take an Outing

Customized outdoor maps with recreational and hunting areas.

DOFAW is pleased to announce the new **OuterSpatial** mobile application available December 2020. This application will provide hunters with a convenient way in which to check in and out of public hunting areas and record their animal harvest electronically with the touch of a button. Check out the APP available at your mobile APP store. Look for this logo

Announcements

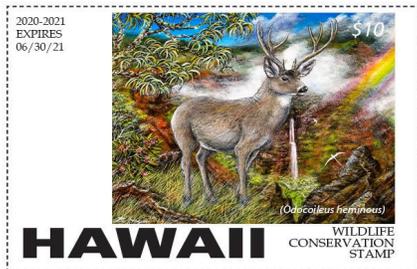
GAME MANAGEMENT ADVISORY COMMISSION (GMAC)	STATE-WIDE
<p>COMMISSION UPDATES</p> <p>Chair..... Stanley Ruidas (Lanai)</p> <p>Members..... Joseph Iury (Oahu) Vacant (East Hawaii) Kalam Nakoa (Maui) Nelson Kapanohi (Nihoa) Nancy Timko (Member at Large) Nicolai Barca (Kauai) Vacant (West Hawaii)</p> <p>Ex officio (meeting)..... Robert K. Masuda (Designate for the Chairperson, Board of Land and Natural Resources)</p>	<p>Game Bird Season Nov. 07, 2020 - Jan. 31, 2021</p> <p>HAWAII</p> <p>See link for details https://dlnr.hawaii.gov/recreation/files/2020/10/6embird_announcement-2020-21ff.pdf</p>

The GMAC is looking to fill the vacant West Hawaii Commissioner seat. If you are interested in serving on the GMAC, please fill out the online application [HERE](#).

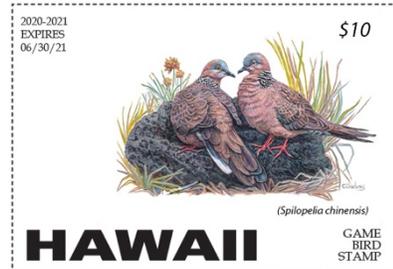
GMAC Commissioners act in an advisory capacity to the Board of Land and Natural Resources, which sets policies for the Department.



Wildlife Conservation and game bird stamp winners 2021.

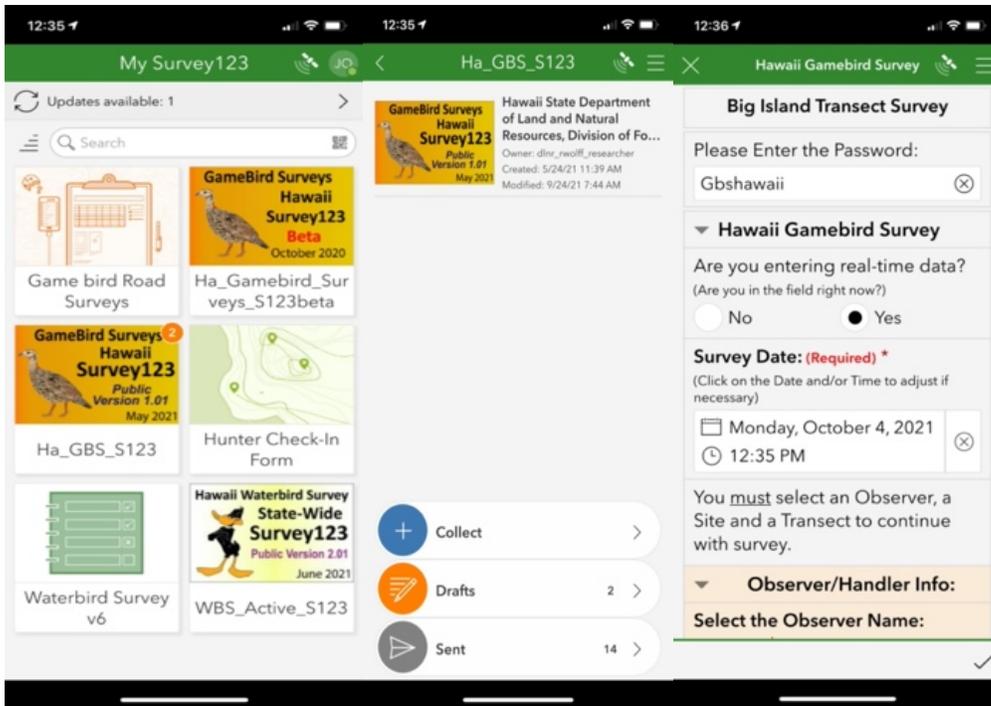


Artist David Hayes

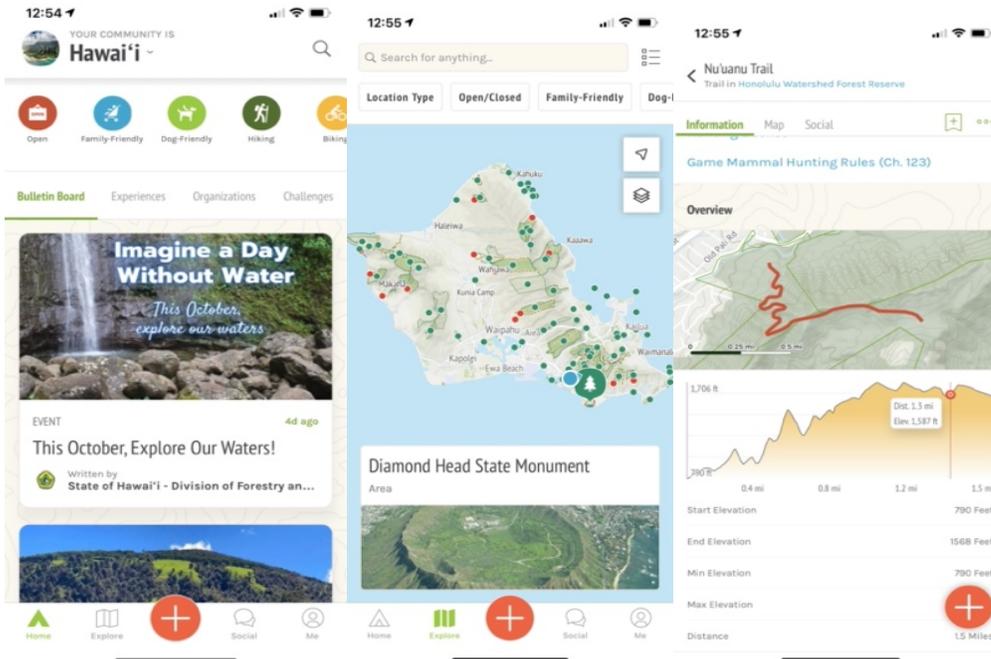


Artist Carol Tredway

New electronic Game bird Survey 123 developed for Mauna Kea and Kapapala



OuterSpatial DOFAW's Hunting and Trails mobile application enhanced



Online hunting Tag and Permit Portal developed by NIC.

My Home Classes - Events Apply for Hunts Purchase Tags Documents Help
My Go Hunt, Hawaii -

Welcome, Aaron!

TEST ANNOUNCEMENT Posted 10/21/2020 08:00AM
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My Upcoming Events

1

View Details →

My Upcoming Hunts

1

View Details →

My Documents

2

View Details →

My Tags

3

View Details →

My Schedule

My Classes

Date	Class	Notes	View
Saturday, Feb 11, 2021 8:00 AM to 4:00 PM	Basic (#2681)	announcements	View

[View all my classes](#)

My Events

Date	Event	Location	View
Monday, Aug 10, 2021 5:45 PM to 10:00 PM	Event title	Hawaii - Qlccd 99-060 Lohea Place HI 96701	View

[View all my events](#)

My Hunts

Hunt Dates	Season	Hunt Type	View
02/22/2021-02/26/2021	2021 Lanai Axis Deer Season	Archery	View

[View all my hunts](#)

My Cards

HAWAII CERTIFIED: HE000029

HUNTING LICENSE: 2020-616

My Tags

Tag Number	Action
KA-21-1	Download Tag
MA-21-8	Download Tag
LA-21-5	Download Tag

[View all my tags](#)