

House District 7

Senate District 3

THE TWENTY- FOURTH LEGISLATURE
HAWAII STATE LEGISLATURE
APPLICATION FOR GRANTS & SUBSIDIES
CHAPTER 42F, HAWAII REVISED STATUTES

Log No: 246-0

For Legislature's Use Only

Type of Grant or Subsidy Request:

GRANT REQUEST - OPERATING

GRANT REQUEST - CAPITAL

SUBSIDY REQUEST

"Grant" means an award of state funds by the legislature, by an appropriation to a specified recipient, to support the activities of the recipient and permit the community to benefit from those activities.

"Subsidy" means an award of state funds by the legislature, by an appropriation to a recipient specified in the appropriation, to reduce the costs incurred by the organization or individual in providing a service available to some or all members of the public.

"Recipient" means any organization or person receiving a grant or subsidy.

STATE DEPARTMENT OR AGENCY RELATED TO THIS REQUEST (LEAVE BLANK IF UNKNOWN):

LAND AND NATURAL RESOURCES, DIVISION OF FORESTRY AND WILDLIFE, FIRE MANAGEMENT PROGRAM

STATE PROGRAM I.D. NO. (LEAVE BLANK IF UNKNOWN):

1. APPLICANT INFORMATION:

Legal Name of Requesting Organization or Individual:
West Hawaii Wildfire Management Organization

Db/a: Hawaii Wildfire Management Organization

Street Address: 64-067 Mamalahoa Hwy, c-4,
Kamuela, HI 96743

Mailing Address: same

2. CONTACT PERSON FOR MATTERS INVOLVING THIS APPLICATION:

Name GAIL BYRNE

Title Executive Director

Phone # 808-885-0900; cell 808-938-8880

Fax # 808-885-0922

e-mail gailbyrne@hawaii.nr.com

3. TYPE OF BUSINESS ENTITY:

- NON PROFIT CORPORATION
- FOR PROFIT CORPORATION
- LIMITED LIABILITY COMPANY
- SOLE PROPRIETORSHIP/INDIVIDUAL

7. DESCRIPTIVE TITLE OF APPLICANT'S REQUEST:

Hawaii Wildfire Management conducts critical wildfire mitigation including hazardous vegetative management, dip tank installation, community risk assessments, GIS analysis to support accurate fire behavior modeling, innovative research to better understand wildfire best management practices specific to Island conditions, etc.

(Maximum 300 Characters)

4. FEDERAL TAX ID: [REDACTED]

5. STATE TAX ID #: _____

6. SSN (IF AN INDIVIDUAL): _____

8. FISCAL YEARS AND AMOUNT OF STATE FUNDS REQUESTED:

FY 2008-2009 \$ 0 15,000

9. STATUS OF SERVICE DESCRIBED IN THIS REQUEST:

- NEW SERVICE (PRESENTLY DOES NOT EXIST)
- EXISTING SERVICE (PRESENTLY IN OPERATION)

SPECIFY THE AMOUNT BY SOURCES OF FUNDS AVAILABLE AT THE TIME OF THIS REQUEST:

STATE \$ 0

FEDERAL \$ 0

COUNTY \$ 0

PRIVATE/OTHER \$ 0

TYPE NAME & TITLE OF AUTHORIZED REPRESENTATIVE:

[REDACTED]
AUTHORIZED SIGNATURE

GAIL BYRNE, EXECUTIVE DIRECTOR
NAME & TITLE

1/8/08
DATE SIGNED

Application for Grants and Subsidies

If any item is not applicable to the request, the applicant should enter "not applicable".

I. Background and Summary

This section shall clearly and concisely summarize and highlight the contents of the request in such a way as to provide the State Legislature with a broad understanding of the request. Include the following:

1. A BRIEF description of the applicant's background;

Hawaii Wildfire Management Organization (HWMO), a 501(c)(3) non-profit, is the only organization of its kind in Hawaii and offers the best cross-disciplinary wildfire expertise in the State. HWMO's experience in hazard assessment, mitigation planning, and project implementation is unparalleled.

HWMO is dedicated to protecting Hawaii Island's communities, irreplaceable dryland forests, and cultural resources from wildfire. HWMO was founded in 2002 by a diversity of stakeholders including scientists, land managers, representatives of State and Federal agencies, ranchers, environmentalists, and fire fighters who came together to characterize wildfire threats and develop and implement strategies to mitigate those threats.

2. The goals and objectives related to the request;

Goal #1: Determine the appropriate species composition and feasibility of living fuel breaks at higher elevations.

Objective #1: Hawaii Wildfire Management will convert at least one acre of an existing, traditional fuelbreak at Pu'u Wa'awa'a or Pu'uAnahulu, Kona and Waipahoanoa, Kohala to a living fuelbreak and evaluate various species of non-invasive cacti and native plants for their effectiveness as living fences and fuelbreaks at higher altitudes

Fuelbreaks are areas of reduced vegetation that can slow or stop a wildfire. They are used to protect communities and important habitats. Traditionally fuelbreaks have been created by mechanically and chemically (poisoning) reducing vegetation. Living fuelbreaks convert highly flammable vegetation (fuels) to vegetation that is less likely to carry fire, such as succulents or native plants. These living fuelbreaks mitigate wildfire threat while re-establishing important eco-system values and native plants. **Importantly, once established, living fuel breaks require little or no maintenance compared to the costly mechanical and chemical maintenance of traditional fuelbreaks.**

Output #1: HWMO will create a resource manual for creating living fuelbreaks and fences at higher elevations (>2,000 ft). This information may also be useful for restoration projects that need to exclude animals to protect habitats.

Goal #2: Document and better understand the function of well-managed grazing in reducing hazardous fuel loads in critical habitat, especially in dryland habitats and forests, to protect these areas from being wiped out by wildfire.

Objective #2: HWMO, with its partnering experts, implement a grazing plan in critical dryland habitat that will protect habitat by reducing wildfire fuels and produce an important agricultural product.

As part of an effort to protect the remaining dryland ecosystems, grazing has been removed from much of this area. Although well intentioned, the removal of grazing has resulted in a build-up hazardous fuels, which will eventually fuel a wildfire and wipe out much of the remaining habitat, including critical Palila areas. To avoid this catastrophe, the hazardous fuels need to be managed. Mechanically and chemically (poisoning) reducing the fuels on a landscape scale is not possible. Grazing must be re-evaluated for the role it can play in feasibly saving critical habitat.

Objective #2: HWMO will work with experts in habitat restoration and grazing management including the University of Hawaii Cooperative Extension, the Natural Resources Services (NRCS), the Department of Land and Natural Resources, and as well as local grazers to design and pilot a grazing management system with the dual objectives of protecting critical habitat by reducing wildfire fuels and producing an important agricultural product.

Outputs #2: Outline of important factors to incorporate/address in grazing management with wildfire management and habitat protection objectives. Evaluation of the costs, roles and responsibilities of the grazer, technical assistance providers, and those charged to manage habitat restoration and the grazer.

3. State the public purpose and need to be served;

Both of these projects will assist in expanding our understanding of how to feasibly prevent wildfire disaster. Homes and other structures have been lost to wildfires. We are lucky that no one has been killed by wildfire. Importantly, sixty-five percent (65%) of our Island's dryland forests have been lost primarily due to wildfire. These native habitats support many Hawaiian cultural activities.

Preventing and quickly suppressing wildfires is much more cost effective than relying on suppression alone. ***Both of these projects will help us to reduce the cost of wildfire mitigation and the need for costly suppression.***

4. Describe the target population to be served; and

Kohala and North Kona although all communities in the dry, leeward area of the Islands will benefit from the outputs of this project.

5. Describe the geographic coverage.

These projects will be implemented in Kona and Kohala, Hawaii Island. However, the outputs of these projects will benefit the entire State.

II. Service Summary and Outcomes

The Service Summary shall include a detailed discussion of the applicant's approach to the request. The applicant shall clearly and concisely specify the results, outcomes, and measures of effectiveness from this request.

1. Describe the scope of work, tasks and responsibilities;

HWMO will be responsible for the overall management and coordination of both projects. The tasks and responsibilities for both projects are presented below:

Project #1 Determine the appropriate species composition and feasibility of living fuel breaks at higher elevations

- Delineate fuelbreak area to be converted – HWMO w/Living Systems
- Refine species list to be planted – HWMO w/Living Systems
- Install any temporary irrigation for establishment, if needed – HWMO w/Living Systems
- Plant using established micro-climates where they exist – HWMO w/Living Systems
- Monitor project and adjust – HWMO w/Living Systems
- Summarize findings – HWMO w/Living Systems

Project #2 Grazing pilot to reduce fuelloads to protect critical habitat

- Choose pilot area (Pu'u Wa'awa'a or Pu'u Mali). - HWMO develops criteria for selection and organizes meeting w/DLNR, UH, the NRCS, and potential ranchers, restoration scientists.
- Develop multi-objective grazing plan to protect habitat by reducing wildfire fuels, and produce an important agricultural product. - HWMO w/above partners.
- Pre-grazing habitat survey, if needed. - HWMO w/above experts
- Implement grazing plan. - Grazers with above experts including restoration scientists.
- Monitor grazing area and herd. - HWMO, partners, grazers
- Evaluate project. - HWMO w/partners

2. The applicant shall provide a projected annual timeline for accomplishing the results or outcomes of the service; 2008

Project #1 Determine the appropriate species composition and feasibility of living fuel breaks at higher elevations

- Delineate fuelbreak area to be converted – Aug 2008
- Refine species list to be planted – Sept 2008
- Install any temporary irrigation for establishment, if needed – Oct 2008
- Plant using established micro-climates where they exist – Nov – Dec 2008
- Monitor project and adjust – Dec 2008 – Oct 2009
- Summarize findings – Nov/Dec 2009

Project #2 Grazing pilot to reduce fuelloads to protect critical habitat

- Choose pilot area (Pu'u Wa'awa'a or Pu'u Mali) - August 2008
- Develop multi-objective grazing plan – Aug – Dec 2008
- Pre-grazing habitat survey, if needed - Jan – Feb 2008
- Implement grazing plan - Mar, 2009 – Feb 2010
- Evaluate project - Throughout project, write-up in March 2010

3. The applicant shall describe its quality assurance and evaluation plans for the request. Specify how the applicant plans to monitor, evaluate, and improve their results; and.

Evaluation Benchmarks and Methods

Project #1 Determine the appropriate species composition and feasibility of living fuel breaks at higher elevations

BENCHMARKS – SUCCESS INDICATORS	MEASUREMENT METHOD(S)	INFORMATION COLLECTED
Costs for establishing fuelbreak per unit area are aligned with projected/ budgeted expenses for pilot (1 acre)	Compare projections w/actual expenses.	Costs for pilot study extrapolated to per acre costs, e.g. plants, water, man hours.
Survival rate for pilot plantings is at least 80%.	Observation and/or representative transects.	Number of plants established during pilot ; number of plants that perished.
Planting and establishment strategies refined during pilot to ensure success for larger projects	Strategies are documented and the plant viability (%survival) for each strategy is compared.	Steps and reasons for each strategy; Factors influencing establishment for each strategy.
By the end of year one, ground cover is established and fused over 100% of the pilot area.	Observation and/or representative transects.	% of pilot area w/fused ground cover.
By the end of year three, dappled canopy is established over 100% of the pilot area.	Observation and/or representative transects Review aerial photo of fuelbreak.	% of pilot area w/ dappled shade.
By year five, rare and/or endangered plants have been established within the fuelbreak.	Observation and/or representative transects.	Number and type of plants Relative health of plants Degree of independence from any care, e.g. irrigation, bug control, etc.
By year seven, fuel break costs have been recouped through decreased maintenance costs.	Compare costs for weedwhacking and spot spraying to costs to establish fuelbreak and any on-going costs.	Expenses for establishing fuelbreak and any maintenance.

Project #2 Grazing pilot to reduce fuelloads to protect critical habitat

BENCHMARKS – SUCCESS INDICATORS	MEASUREMENT METHOD(S)	INFORMATION COLLECTED
Fuel loads are reduced by at least 60%.	Estimates from photos and field observations.	Mass of fuel before and post grazing
No important habitat lost due to grazing.	Field observations, photos.	Condition of habitat before and post grazing
No financial loss for grazers – production not greatly impacted by multiple grazing objectives	Monitor condition of animals and track costs to grazers	Animal health, viability, and grazers' expenses

4. The applicant shall list the measure(s) of effectiveness that will be reported to the State agency through which grant funds are appropriated (the expending agency). The measure(s) will provide a standard and objective way for the State to assess the program's achievement or accomplishment. Please note that if the level of appropriation differs from the amount included in this application that the

measure(s) of effectiveness will need to be updated and transmitted to the expending agency.

Please see the measures of effectiveness (benchmarks) in the above tables along with how the measures will be determined and with what information.

III. Financial

Budget

1. The applicant shall submit a budget utilizing the enclosed budget forms as applicable, to detail the cost of the request.

See enclosed spreadsheets.

2. The applicant shall provide its anticipated quarterly funding requirements for the fiscal year 2008-2009.

Quarter 1	Quarter 2	Quarter 3	Quarter 4	Total Grant
\$7,000	\$5,000	\$2,500	\$ 500	\$15,000 15,000

IV. Experience and Capability

A. Necessary Skills and Experience

The applicant shall demonstrate that it has the necessary skills, abilities, knowledge of, and experience relating to the request. State your experience and appropriateness for providing the service proposed in this application. The applicant shall also provide a listing of verifiable experience of related projects or contracts for the most recent three years that are pertinent to the request.

Hawaii Wildfire Management Organization has the following expertise: natural resource management, biology, fire suppression and wildfire mitigation, and grazing and range management.

HWMO has very solid experience in implementing projects and piloting research related to mitigating wildfire and protecting natural resources:

- 2005 -2006 Joint Fire Sciences Study 2005-2006 – evaluated multiple wildfire mitigation measures
- 2007-2008 Coastal Living fuelbreak pilot – 2007 evaluating the effectiveness of living fuelbreaks in the dry, leeward coastal areas.
- 2007 Pu'u Wa'awa'a Assessment of Fuels to Inform Grazing Management – HWMO informed project and funded this UH project
- 2007 Community Wildfire Protection Plan for Northwest Hawaii Island – identified hazards and appropriate mitigation, including the need to pilot grazing in critical habitat areas

2005-2008 Maintenance of Pu'uAnahulu fuelbreaks
2007 Puako Forest Management Plan - Wildfire Mitigation – hired Living Systems design to develop comprehensive mitigation plan

B. Facilities

The applicant shall provide a description of its facilities and demonstrate its adequacy in relation to the request. If facilities are not presently available, describe plans to secure facilities. Also describe how the facilities meet ADA requirements, as applicable.

N/A since the funding request is for field projects. HWMO's office in Waimea is ADA compliant and HWMO has the needed equipment and GIS and mapping expertise to support this project.

V. Personnel: Project Organization and Staffing

A. Proposed Staffing, Staff Qualifications, Supervision and Training

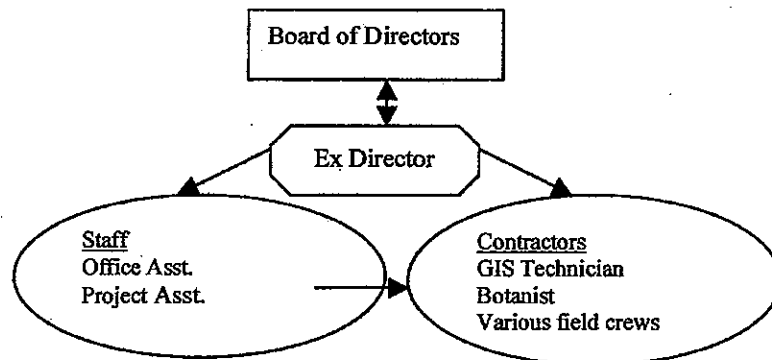
The applicant shall describe the proposed staffing pattern and proposed service capacity appropriate for the viability of the request. The applicant shall provide the qualifications and experience of personnel for the request and shall describe its ability to supervise, train and provide administrative direction relative to the request.

HWMO Executive Director, Gail Byrne, has over 18 years experience as an engineer in natural resource management. She has managed a variety of projects including research and monitoring pilots. Gail will be responsible for the logistics of both projects, while the HWMO Board will provide the expertise and technical assistance required to implement the projects.

The coordinator for Living FuelBreak Project will be Neil Logan, an ethnobotanist who has worked on fuelbreak projects in South America and is directing the establishment of the first low elevation fuelbreak in the State.

B. Organization Chart

The applicant shall illustrate the position of each staff and line of responsibility/supervision. If the request is part of a large, multi-purpose organization, include an organizational chart that illustrates the placement of this request.



VI. Other

A. Litigation

The applicant shall disclose any pending litigation to which they are a party, including the disclosure of any outstanding judgement. If applicable, please explain.

N/A

B. Licensure or Accreditation

Specify any special qualifications, including but not limited to licensure or accreditation that applicant possesses relevant to this request.

HWMO's diverse Board of Directors is comprised of the best cross-disciplinary wildfire expertise in the State. The Board's collective experience in hazard assessment, mitigation planning, and project implementation is unparalleled.

The Board includes scientists, land managers, representatives of State and Federal agencies, ranchers, consultants and natural resource managers, and fire fighters. Many of the Board have been incident commanders on large Island fires, including a DLNR representative and the current Fire Chiefs for the National Park Service and US Army Pohakloa Training Center.

BUDGET REQUEST BY SOURCE OF FUNDS
(Period: July 1, 2008 to June 30, 2009)

App Hawaii Wildfire Management Organization

BUDGET CATEGORIES	Total State Funds Requested			
	(a)	(b)	(c)	(d)
A. PERSONNEL COST				
1. Salaries		7,000		
2. Payroll Taxes & Assessments				
3. Fringe Benefits				
TOTAL PERSONNEL COST		7,000		
B. OTHER CURRENT EXPENSES				
1. Airfare, Inter-Island				
2. Insurance		800		
3. Lease/Rental of Equipment				
4. Lease/Rental of Space				
5. Staff Training				
6. Supplies		1,000		
7. Telecommunication		50		
8. Utilities				
9. Expert Ethnobotanist	5,000			
10. Native plants	5,000			
11. Graduate Student stipend	5,000			
12				
13				
14				
15				
16				
17				
18				
19				
20				
TOTAL OTHER CURRENT EXPENSES	15,000	1,850		
C. EQUIPMENT PURCHASES		500		
D. MOTOR VEHICLE PURCHASES				
E. CAPITAL				
TOTAL (A+B+C+D+E)	15,000	9,350		
SOURCES OF FUNDING		Budget Prepared By:		
(a) Total State Funds Requested	15,000	Gail Byrne Hawaii Wildfire Management Organization 808-938-8880		
(b) Hawaii Wildfire Mangement	9,350	Name (Please type or print) Phone		
(c)		[Redacted] 1-8-08/30/05		
(d)		Signature of Authorized Official Date		
TOTAL REVENUE	24,350 24,350	Executive Director, Gail Byrne Name and Title (Please type or print)		

BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

Applicant: Hawaii Wildfire Management Organization Period: July 1, 2008 to June 30, 2009

DESCRIPTION EQUIPMENT	NO. OF ITEMS	COST PER ITEM	TOTAL COST
N/A - Hawaii Wildfire will purchase equipment necessary for projects			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
TOTAL:			\$ -

JUSTIFICATION/COMMENTS:

DESCRIPTION OF MOTOR VEHICLE	NO. OF VEHICLES	COST PER VEHICLE	TOTAL COST
N/A			\$ -
			\$ -
			\$ -
			\$ -
			\$ -
TOTAL:			\$ -

JUSTIFICATION/COMMENTS: Hawaii Wildfire Management Organization is only requesting funding for native plants for living fuel

BUDGET JUSTIFICATION - EQUIPMENT AND MOTOR VEHICLES

TOTAL
BUDGETED

TOTAL
BUDGETED

elbreak.

BUDGET JUSTIFICATION CAPITAL PROJECT DETAILS

Applicant: Hawaii Wildfire Management Organiz

Period: July 1, 2008 to June 30, 2009

	FUNDING AMOUNT REQUESTED				
	ANY OTHER SOURCE OF FUNDS RECEIVED IN PRIOR YEARS		STATE FUNDS REQUESTED		FUNDING AMOUNT SUCCEEDED IN PRIOR YEARS
TOTAL PROJECT COST	FY: 2006-2006	FY: 2006-2007	FY: 2007-2008	FY: 2008-2009	FY: 2009-2010 FY: 2010-2011
PLANS					
LAND ACQUISITION					
DESIGN					
CONSTRUCTION					
EQUIPMENT					
TOTAL:					
JUSTIFICATION/COMMENTS:					
N/A					

**DECLARATION STATEMENT
APPLICANTS FOR GRANTS AND SUBSIDIES
CHAPTER 42F, HAWAII REVISIED STATUTES**

The undersigned authorized representative of the applicant acknowledges that said applicant meets and will comply with all of the following standards for the award of grants and subsidies pursuant to section 42F-103, Hawaii Revised Statutes:

- (1) Is licensed or accredited, in accordance with federal, state, or county statutes, rules, or ordinances, to conduct the activities or provide the services for which a grant or subsidy is awarded;
- (2) Comply with all applicable federal and state laws prohibiting discrimination against any person on the basis of race, color, national origin, religion, creed, sex, age, sexual orientation, or disability;
- (3) Agree not to use state funds for entertainment or lobbying activities; and
- (4) Allow the state agency to which funds for the grant or subsidy were appropriated for expenditure, legislative committees and their staff, and the auditor full access to their records, reports, files, and other related documents and information for purposes of monitoring, measuring the effectiveness, and assuring the proper expenditure of the grant or subsidy.

In addition, a grant or subsidy may be made to an organization only if the organization:

- (1) Is incorporated under the laws of the State; and
- (2) Has bylaws or policies that describe the manner in which the activities or services for which a grant or subsidy is awarded shall be conducted or provided.

Further, a grant or subsidy may be awarded to a non-profit organization only if the organization:

- (1) Has been determined and designated to be a non-profit organization by the Internal Revenue Service; and
- (2) Has a governing board whose members have no material conflict of interest and serve without compensation.

Further, the undersigned authorized representative certifies that this statement is true and correct to the best of the applicant's knowledge.

Hawaii Wildfire Management Organization
(Typed Name of Individual or Organization)

[Redacted Signature]
(Signature)

1-8-08
(Date)

Gail Byrne
(Typed Name)

GA Executive Director
(Title)