Contents

Page
3………… Program Overview
3………… Applicant Eligibility
3………… Proposal Deadlines
4………… Program Procedures
5………… Management Objectives
5………… Cost-Sharing
5………… Pay-back Provisions and Taxes
6………… Maintenance Requirements
6………… Management Practices
8………… Invasive Species Protocols
11……….. Project Proposal Form – Step One
14……….. Management Plan Format

Appendices:
A. Criteria for Potential Natural Area Reserve
B. Archeological/Cultural Surveys, Grading Permits/Soil Conservation Plans
C. Environmental Assessments and Safe Harbor Agreements
D. Conservation District Use Application
E. Endangered Species
F. Current Cost-Share Rates
G. Rates Used for In-Kind Services for Matching Funds
H. Forest Stewardship Management Plan Signature Page
I. Useful Web Sites

State Contacts:

FOREST STEWARDSHIP PROGRAM COORDINATOR
DOFAW Cooperative Resource Management Forester – Sheri S. Mann
1151 Punchbowl St., Room 325
Honolulu, HI 96813
808-587-4172
sheri.s.mann@hawaii.gov

SERVICE FORESTERS
DOFAW Branch Offices:

Hawaii Island  Maui County  Kauai  Oahu
19 E. Kawili St.  54 South High St.  3060 Eiwa St.  2135 Makiki Hts. Dr.
Hilo, HI 96720  Wailuku, HI 96793  Lihue, HI 96766  Honolulu, HI 96822
808-974-4221  808-984-8100  808-274-3433  973-9778

State Tree Nursery
66-1220A Lalamilo Rd.
Kamuela, HI
808-887-6061

Forest Stewardship Website: http://www.state.hi.us/dlnr/dofaw/hfsp/index.html
Division of Forestry & Wildlife Website: www.dofaw.org
Program Overview

The Hawaii Forest Stewardship Program (FSP) provides technical advice and financial assistance on a cost-share basis to promote the stewardship, enhancement, conservation and restoration of Hawaii's forests. The FSP focuses on the following objectives: timber productivity, native ecosystem health and biodiversity, watershed quality, wildlife habitat and recreation.

The State program began in 1991 through the passage of Act 327 of the Hawaii Legislature. The Federal Forest Stewardship Program provides administrative support. The Forest Stewardship Advisory Committee advises the Department of Land and Natural Resources, Division of Forestry and Wildlife (DOFAW), which administers the program. The Committee reviews proposals and management plans, recommending those deserving of funding to the State Forester and the Board of Land and Natural Resources for approval. Committee members represent federal and state agencies, professional foresters and resource consultants, conservation organizations, land trust organizations and private landowners. Assistance with the process can be requested from DOFAW staff.

After acceptance in the program and completion of a contract, completion of approved practices is reimbursed at 50% of the allowable cost. The program can also assist with the cost of developing a full management plan, which must cover a period of at least 10 years (the cost share portion of the plan). The term of the contract can vary from an additional 10 or 20 years following the completion of cost-shared management practices to ensure plantings and/or practices are maintained. Participants may only wish to just develop a management plan.

Applicant Eligibility

To be eligible for the FSP, applicants must:
• Own at least 5 contiguous acres of forested or formerly forested land
OR
• Have a lease for a minimum of 10 years on at least 5 contiguous acres of forested or formerly forested land
AND
• Intend to actively manage at least 5 acres to enhance forest resource values for both private and public benefit

Individuals, joint owners, private groups, associations, leaseholders, or corporations are eligible. Lands that qualify as potential natural area reserves are not eligible (see Appendix A).

Contract Length

FSP contracts generally require a maintenance period beyond the first ten (10) years of cost-share between the landowner and the State. However, the Program allows eligible applicants whose objectives do not include commercial timber production to enter into contracts with term length ranging from 10 to 30 years, including the cost-share period. For applicants interested in commercial timber production, contract term lengths must be at least 30 years and include a payback provision as described in the “Payback Provision and Taxes” section below.
**Proposal Deadlines**

The FSP Coordinator accepts proposals and developing management plans on a rolling basis, which are compiled and reviewed prior to evaluation by the FSP Advisory Committee on a quarterly basis. The Committee generally meets on **February 1st, May 1st, August 1st, and November 1st** of each year. These dates change from time to time so we recommend calling to confirm meeting dates and proposal deadline dates. It is highly recommended that the FSP Coordinator is contacted before submitting a proposal and that a draft is submitted before the due date. By resolving any issues in advance, you will increase your chance of success.

**Program Procedures – For Proposals and Plan Development**

1. **Submit a proposal** by the quarterly deadlines to the FSP Coordinator. Follow the format on page 11. Proposals are accepted, rejected, or revisions are requested. Once accepted, the cost-share amount for development of the management plan is negotiated.

2. **Develop and submit a management plan** covering at least 10 years of management practices according to the format on page 14. We recommend you seek the assistance of a resource management consultant, a forester, or someone with expertise in management plan development unless you are professionally qualified. Plans must include a letter from the State Historic Preservation Division verifying there are no archeological, burial or historic sites on the property (see Appendix B). Management plans may be approved or the Stewardship committee may request revisions or additional details. Reimbursement for the negotiated cost-share amount for the development of the management plan is made upon execution of the contract.

3. **IF NECESSARY - Other documents may be required:** Environmental Assessments (including a cultural impact assessment) are required if the management plan includes the establishment of timber with the intent of eventual harvesting or the construction of fences (see Appendix C). **Archeological surveys** may be required where there is strong evidence to suggest the existence of archeological or historic resources (see Appendix B). **Grading Permits or Soil Conservation Plans** may be required (Appendix B). If the project is within the conservation district, a **Conservation District Use Permit** may be required (Appendix D). If you plan to collect, propagate or plant **threatened and endangered species** contact the State Botanist at (808) 587-0165.

4. **Arrange a Site Visit** by a DOFAW Service Forester (page 2) to verify practices and cost-share estimates.

5. **Obtain approval from the Board of Land and Natural Resources.** DOFAW submits documents detailing FSP proposals and management plans to the board recommending approval. The Board may approve, deny or request that adjustments be made to management plans and contract agreements to reflect current priorities or budget concerns. If approved, the contract starts on the date of final approval. If you begin your project before all parties sign and prior to State authorized execution of the contract, you will not be reimbursed for expenses incurred before the contract date. You will receive a Forest Stewardship recognition sign to post on your project property.
6. **Submit documents required to complete a contract with the State.** For approved management plans, DOFAW staff prepares a contract, which you review, sign with a notary, and mail back for the State to sign and finalize. Prospective FSP grant recipients must also submit a W-9 Form (assigns a state procurement number). If your contract is more than $25,000 total per year, you will also need Federal and State tax clearances, a General Excise Tax Number, and evaluation forms that we will provide you. All contracts must follow the State’s general conditions, whereas special conditions are somewhat negotiable.

7. **Sharing the cost (cost-share) of Forestry Practices.** Approved practices can be found on page 6.

8. **Submit semi-annual progress reports, invoices, and cost documentation** to DOFAW in the formats provided when your contract is approved. A Service Forester will then visit the project site to verify practice completion and discuss progress or problems. After the site visit, DOFAW will mail a reimbursement payment for completed management practices. Information contained in reports may be shared with the public. See page 7 for information on revisions to plans.

*Please note it takes at least 9-12 months from when a proposal is submitted to contract execution should the proposal be approved. Cost share funds will not be dispersed until the contract is fully executed and initial management practices have been completed and are ready for inspection.*

**General Management Objectives Eligible for Cost-share Assistance**

- Forest Stewardship management plan development
- Growth and management of forests for non industrial timber and other forest products
- Native species restoration
- Agroforestry (the forestry component only)
- Windbreaks (to protect forestry project areas)
- Watershed, riparian, and/or wetland protection and improvement
- Forest recreation enhancement
- Native wildlife habitat enhancement
- Native forest conservation

*Orchards, agriculture and landscaping are NOT eligible objectives*

**Cost-sharing and Allowable Rates**

You will receive up to a 50% cost-share reimbursement for your management practice expenses, which generally must be within the allowable rates listed in Appendix F. You can include “in-kind” services (non-cash) such as labor costs, your own materials, and the use of your own equipment as part of your 50% cost-share or match (see Appendix G for details).

Allowable reimbursements are subject to a variety of factors including project scale, type, actual project costs, and the anticipated availability of program funding. The FSP Coordinator may allow exceptions to the listed cost-share rates if the requested amounts are justifiable. To date, projects requesting more than $100,000 per year have not been approved.
**Pay-back Provisions and Taxes**

If landowners/lessees sell or transfer all or part of the stewardship managed property during the term of the approved contract agreement, they are required to pay back to the state all of the cost-share funds received in the past three years (or the portion of funding that corresponds to a pro-rated share of that portion of the managed property that is sold or transferred). The landowner/lessee or contractor would not be required to reimburse the State for the cost-share assistance received if the new landowner contractually agrees to assume responsibility for the term remaining on the Forest Stewardship contract agreement.

Cost-share reimbursement payments are considered as income and are thus normally subject to state and local taxes. However, depending upon your management activities, payments may be exempt from taxes. A guide to federal income tax regulations affecting private forests, and other resources are available on line at: http://www.fs.fed.us/spf/coop/programs/loa/tax. In addition, you may be eligible for real property tax reductions or incentives because of your commitment to long-term forest management. For more information, contact your county tax office.

If the purposed stewardship plan includes an objective for commercial timber production, you will be required to pay back to the State a percentage of the funding assistance that is received through the program with each future commercial timber harvests as set forth in the contract. This pay back is typically 5 to 10 percent of total grant funding received, but the amount is negotiable. A payback provision will be included as a special condition of the contract, stipulating that this provision will survive the term length of the contract.

**Maintenance Requirements**

Participants are required to maintain cost-shared improvements for at least ten years following installation. “Maintain” means the improvements will not be willfully removed or destroyed and routine maintenance will assure that under normal conditions the improvements will serve the purpose intended. Details are given under each relevant management practice description below.

**Management Practices Eligible for Cost-share Assistance**

1. **Forest Stewardship Management Plan Development**

   All projects must have a plan before they can be approved for cost sharing. Please use the format detailed in this handbook. A professional forest resource consultant or a qualified applicant can write plans. FSP staff work with applicants to cover as much of the costs of the plan development as possible depending on current funding sources.

   **Revisions:** Your plan may be reviewed and revised in the future if deemed necessary. Amendments are subject to approval by DOFAW, the Board of Land and Natural Resources, and the Attorney General’s office. Significant amendments may require that a new contract agreement be drawn up and approved. Keep in mind that this requires additional time and paper work, usually resulting in project delays. Any new non-native species added to your management plan or project site must be reviewed and approved.
2. Site Preparation

All planting projects will require reducing or removing vegetation so seedlings can survive. Heavy or light equipment or hand-labor may be cost-shared if you:

- Follow elevation contours when using heavy soil-moving equipment.
- Do not use equipment in Streamside Management Zones
- Follow Best Management Practices to minimize erosion. See the guide at [http://www.state.hi.us/dlnr/dofaw/pubs/BMPs_bestmanagement.pdf](http://www.state.hi.us/dlnr/dofaw/pubs/BMPs_bestmanagement.pdf)

You may need to improve the soil condition for seedling growth or natural regeneration by using tilling and sub-soiling where soil is compacted or where there are hardpans. We highly recommend having the soil tested prior to augmentation. Scarification can be used to promote the regeneration of *Acacia koa* in some places where it once existed. Maximum allowable costs can vary depending on the density of existing vegetation, soil conditions, presence of a hardpan, and the steepness of the slope.

3. Fencing

If seedlings and young trees need protection from feral and/or domestic animals, such as pigs, sheep, deer, cattle, horses and humans, fences and other tree protection measures may be cost-shared. Fence cost-share limits depend on the type of fencing necessary for the site and follow the Natural Resource Conservation Service cost limits and specifications:

**General Fence Types**
- Barbed wire, posts in soil $2.50/foot
- Barbed wire, posts in rock $5.50/foot
- Woven wire, posts in soil $4.00/foot
- Woven wire, posts in rock $7.00/foot
- Electric, posts in soil $2.00/foot
- Electric, posts in rock $5.00/foot

Contact the FSP Coordinator concerning rates for game proof fences.

**Other Tree Protection Practices:** Feral pig, cat, rat and mongoose control can be cost-shared. Buffer zones surrounding restoration areas are also eligible for protection. Fences MUST be maintained for at least ten years following installation in a manner that preserves their intended function, such as protecting seedlings from feral or grazing animals.

4. Fertilization/Soil Amendments

Fertilizers and soil amendments may be organic or inorganic. Soil tests and professional recommendation rates for each species are required to cost-share fertilizers. The University of Hawaii’s Agricultural Diagnostic Services Center does soil, water and tissue testing. See [http://www2.ctahr.hawaii.edu/adsc/downloads/price_list.pdf](http://www2.ctahr.hawaii.edu/adsc/downloads/price_list.pdf) for more information. Soil amendments to improve the structure and fertility of the soil immediately surrounding the seedling root zone can also be cost-shared, including hydrating polymers.

All amendments must be used in accordance with registered uses, directions on labels, and all other applicable federal, state and local policies. Consider possible induced deficiencies of nutrients due to excessive levels of other nutrients and the effect of soil pH on the availability of plant nutrients. Do not apply inorganic fertilizers near to streams or wetlands where polluted runoff might enter water. Fertilizer applications are generally eligible for cost-share assistance
for a period of up to four years subsequent to the seedling planting date. The highest cost-share limit is applicable only where soil depletion is extreme and is justified by soil tests and recommendations.

5. **Seedling Acquisition**

You must consider the current and former plant communities at your site when choosing species. Seedlings should be purchased from local growers who use genetically diverse seeds or stock from as close to your planting location and/or habitat as possible. DOFAW operates a nursery that produces a limited selection of species. Contact your local DOFAW Branch Office to place orders see page 2. It is advised to order plant stock well in advance (three to four months for most species) to get the quantity & species that you desire for your planting date. Use smaller container stock such as dibble tube, airblock, or root-trainer, as opposed to larger, potted stock to reduce site preparation and planting cost, however this may very depending on the species you select. Seedlings should be of good condition, adequate size and "hardened off" before planting. Seedlings that have been in containers for too long may not be healthy. A detailed species list is required in the management plan. Fruit trees are not eligible.

**Projects that include invasive species will not be funded.** The following procedures will be used to judge whether a non-native species is considered invasive and is approved or disapproved:

1. No species on the state ‘Noxious Weed List’ will be funded. See page 11 of the state rules: [http://www.hawaiiag.org/hdoa/adminrules/AR-68.pdf](http://www.hawaiiag.org/hdoa/adminrules/AR-68.pdf)
2. Non-native species proposed for planting must be listed in new FSP management plans or submitted as revisions of previously approved management plans. If the landowner is aware that the species may be considered invasive the plan should include a justification of the use of the species. New management plans and associated species lists are always reviewed by the FSP Committee.
4. DOFAW FSP staff will gather information and recommendations about non-native species from DOFAW Branch staff and the Weed Risk Assessment scores; if there is no clear consensus, further information will be sought from invasive species experts.
5. For new non-native species added to revised management plans: If the information in step #4 clearly indicates that the species is not invasive, it will be approved by FSP staff without waiting for a FSP Committee meeting. If the information in step #3 indicates that the species may be invasive, the species may not be approved until reviewed by the FSP Committee.
6. If the FSP Committee disagrees about whether to consider the species, the final decision will be made by the DOFAW Invasive Species Coordinator.

These guidelines follow Federal Executive Order #13112, quoted below. In applying the Executive Order to the Hawaii FSP, (a) successful justifications for the use of invasive species will emphasize environmental benefits rather than economic benefits, and (b) new introductions of potentially invasive species carry a high risk of harm and will not be funded. Generally speaking, if there is a lack of information or clear understanding about how the species has or will affect Hawaiian ecosystems, the species in question will not be funded.

Federal Executive Order #13112 directs that [Federal] agencies “not authorize, fund, or carry out actions that it believes are likely to cause or promote the introduction or spread of invasive species in the United
States or elsewhere unless, pursuant to guidelines that it has prescribed, the agency has determined and
made public its determination that the benefits of such actions clearly outweigh the potential harm caused
by invasive species; and that all feasible and prudent measures to minimize risk of harm will be taken in
conjunction with the actions.”

6. Planting

Seedlings are usually planted at the beginning of the wet season. Clear all weeds and competing
vegetation from around newly planted seedlings at the time of planting to an area of at least 3
feet in diameter. Where dibble stock is used, soil is of good structure, and there is adequate
rainfall, the planting holes only need to be big enough to accommodate the small dibble. Where
larger planting stock is used, holes must be large enough to accommodate freely hanging roots,
or root balls. Roots should never be bent or crowded. Where long droughts may threaten seedling
survival, larger holes can serve as water storage reservoirs, greatly increasing seedling survival
rates. Holes dug through sod or untilled ground should be at least 16 inches square. Do not place
the plant so deep into the hole that the stem is buried. Mix soil amendments or additives with soil
before planting holes are filled to improve growing environment and soil water holding capacity.
Avoid glazing sides of planting holes with digging tools, especially augers, in wet clay. Plantings
for native forest restoration and tree plantations should be maintained to assure the survival of a
majority of the trees planted.

7. Irrigation

Use mulch where feasible to help maintain soil moisture (see next section). Irrigation systems
should be used only in areas where rainfall is not dependable, to enhance seedling survival and
growth during early development. Irrigation should not to be used to maintain trees as they
become mature. Where feasible please use drip irrigation. Please see a free publication at
http://www.ctahr.hawaii.edu/oc/freepubs/pdf/L-2.pdf for assistance in designing irrigation
systems. Cost-share assistance is available for system installation only. System maintenance and
repairs are the responsibility of the applicant. Irrigation is only eligible for cost-share assistance
for a period of up to four years following the seedling planting date. Allowable cost-share rates
are for drip irrigation only. For catchment systems and ponds please provide three quotes or
contact the FSP Coordinator for allowable cost-share rates. Irrigation systems should be
maintained until the plants can survive on their own through a normal dry season.

8. Weed Control and Mulching

Use organic mulch at least 2” thick where feasible to help control weeds after planting. Keep
mulch away from plant stems where it can cause rot. Mulch consists of plant residues or other
suitable manufactured materials. Use higher planting densities and/or ground covers to shade out
weeds. Eliminate or control weeds with herbicides, mechanically or by hand. Use control
measures designed specifically for the particular weed species. Minimize adverse environmental
impacts when applying herbicides. (Don’t spray when it’s windy, use the lowest rate of the least
toxic alternative possible.) Apply chemicals in accordance with registered uses, directions on
labels, and all other applicable federal, state and local policies. Establishment and maintenance
of non-invasive ground covers and native understory plants can be cost-shared where there is a
tree component in the plan. Buffer zones surrounding planting areas are also eligible for weed
control cost-sharing to help stop the spread of weeds before they get to the planted area. Weed
control should continue into the 10-year maintenance period to assure tree survival and normal
growth. In restoration areas, weeded areas should not be planted with non-natives when at all
possible.
9. **Special Areas Practices: Stream Bank Revegation, Fire Prevention, etc.**

Highly erodible, very steep and/or inaccessible sites may require more intensive methods to establish permanent vegetation, including trees, shrubs, ground covers, and grasses. This includes stream bank areas. Sites that are prone to fire danger or are in need of fire prevention or mitigation measures may be allowable for cost-shared rates. In addition to the practices listed above, the following can be employed in these areas:

- Erosion control matting and/or other erosion control materials such as coir logs or rocks.
- Labor-intensive methods of hand-clearing undesirable vegetation
- Terracing, water diversions, or other grading. *Additional permits will be required.*
- More expensive plants in larger containers
- Other materials as necessary

The applicant must obtain 3 written quotes for the proposed work and/or consult with the FSP Coordinator to determine the allowable cost-share. Due to limited funds, this option may not always be available. Management plans should cover maintenance for 10 years.

10. **Trail Construction**

Cost-sharing is available for trails in forest areas to enhance their recreational value, and to provide for public access, educational opportunities, and fire protection. Do not eliminate key trees that have scenic value, provide shade, reduce erosion and runoff, provide unique habitat for wildlife, or that add to the aesthetic value of the area. Develop trail grades suited for the intended purposes, consider the topography, and avoid exceeding 10 percent slopes. Wherever possible, trail width should remain between 2 and 4 feet. Cut and fill slopes must be stable. Plans must include provisions for erosion control. Revegetate as soon as practical following trail construction. Design bridges with professional assistance (see Recreation at [http://www.dofaw.net/](http://www.dofaw.net/) for guidance). Try to place directional and warning signs, handrails, bridges and culverts as dictated by the site and intended use. Include provisions for maintaining all wearing surfaces, signs and drainage structures for ten years following installation.

11. **Non-Commercial Thinning**

Where stands of trees are overstocked or over topped by less desirable trees, thinning can increase the growth, health and the future value of desired trees. Consider which species will be favored after thinning and if weeds will take over with more sunlight available? Chose cull (non desirable) trees with the assistance of a professional forester if possible. Plan for slash (biomass waste) disposal after thinning. Determine the best season and method for thinning.
Project Proposal Form – Step One

In order to receive cost-share assistance for the project, you must send us a project proposal. If the Forest Stewardship Committee approves this proposal, you will be invited to develop a full management plan. Once this plan is approved and a long-term contract is developed and executed, you will be eligible to receive cost-share assistance for the cost of developing the management plan. The proposal should be submitted via e-mail to the Forest FSP Coordinator via e-mail or CD to DOFAW/Forest Stewardship Program 1151 Punchbowl St., Room 325, Honolulu, HI 96813.

Applicant and Property Information (add on separate paper if necessary)

Name:
Address:

Email:
Phone:
Fax:

Tax Map Key number and property acreage:
Landowner name:
Lessee name:
State and County Zone designation:
Acres of proposed stewardship management area:

Description of the project property or the land area to be managed

Driving directions from the nearest highway:

Existing vegetation (a paragraph, emphasizing native and/or invasive species present):

Existing wildlife: (a paragraph, emphasizing native and/or invasive species present):

Land Use for the entire property (Place an “X” under all that apply):

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<th>Pasture</th>
<th>Crop land</th>
<th>Sugar cane</th>
<th>Range land</th>
<th>Forest grazed</th>
<th>Forest non-grazed</th>
<th>Other</th>
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Maps

1) Please attach a topographic map showing the area. See topozone.com and/or other appropriate maps (soils, roads, etc).
2) If possible, provide a rough sketch of your project area and where the practices will be applied.
Forest management objectives - Please check all objectives that apply to the project:

☐ Growth and management of forests for timber and other forest products
☐ Native species restoration and habitat improvement
☐ Agroforestry (forestry component)
☐ Windbreaks (to protect forestry project areas)
☐ Watershed, Riparian, and/or Wetland Protection and Improvement
☐ Forest Recreation Enhancement

Proposed practices and species selection

Please check all practices that apply to your project:

☐ Management Plan (required)
☐ Site Preparation
☐ Fencing
☐ Other Tree Protection
☐ Fertilization/Soil Amendments
☐ Seedling Acquisition
☐ Planting
☐ Weed Control/Mulching
☐ Irrigation
☐ Intensive Revegetation and Special Areas
☐ Trail Construction
☐ Non-commercial thinning

Attach a draft list of species you propose to plant. Please see page 8 concerning invasive species.

Provide the name of the vendor or location you intend to use for seed or planting stock.

Public benefit - Please check all public benefits that apply to the project:

☐ Economic diversification/employment (commercial timber production of a significant scale)
☐ Native ecosystem and biodiversity restoration
☐ Watershed improvement/protection
☐ Native wildlife habitat enhancement
☐ Other ecosystem services
☐ Provision of educational, recreational or ecotourism opportunities

Organizations that will be involved in the project

Briefly list and describe partnerships with other resource management agencies and organizations. If you will use grants or cost-sharing from other programs to provide your part of the 50% match, please state what funds you expect they will provide.
**Estimated costs**
This table can help you get a rough idea of how much your project will cost.

Example: If you prepare 10 acres for planting (site prep) at a cost of $800/acre (done only once per acre) then the actual total cost will be $8,000. FSP will pay $400/acre (50% of the actual cost, within the cost-share limits) or a total of $4,000. You will be responsible for $400/acre of labor and/or equipment, which can be in-kind (not cash, your own labor and equipment) or actual cash you pay someone from your own money or other funding sources.

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<tr>
<th>Practice Component</th>
<th>Acres</th>
<th>Cost/Acre (Or plan)</th>
<th>Frequency or # of acres</th>
<th>Actual Total Cost</th>
<th>Estimated Landowner Cost – Share Approx 50%</th>
<th>Estimated FSP Cost-Share Approx 50%</th>
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**Other Information**
You may add any photos or other details to this application you think will help us understand the project.

[End of Proposal Form]

*Either you will be invited to complete a full management plan, asked to provide more information for a secondary review, or not invited to complete a full management plan.*
Forest Stewardship Management Plan Format

After the proposal is accepted, you will develop a detailed and comprehensive Forest Stewardship Management Plan which requires the services of a professional forester or resource management consultant unless you are professionally qualified to write your own. Some of the consultants working in Hawaii are listed on the Hawaii Forest Industry Association website: http://www.hawaii-forest.org/index.html. The management plan must meet standards set by the national and state guidelines and follow the plan format below.

Plan preparation costs generally range from $1,500 to $5,000 depending on the complexity of the plan. The cost-share amount provided by the FSP is negotiated with the coordinator after the proposal is accepted. The cost-share is payable upon receipt of the final management plan, the contract is executed, and a receipt from the consultant's invoice has been received. **All cost-share funds are paid on a reimbursement basis.**

I. **Cover Sheet**
- Applicant and property information (same as proposal)
  - Name
  - Address
  - Email
  - Phone
  - Fax
  - TMK number:
    - State and County Zoning
    - Total property acreage
    - Acres of proposed stewardship management area
- Consultant's name, title, address, email, fax and phone number
- Date the plan was completed

II. **Signature Page** *(Appendix H)* with signatures of the applicant, consultant, & State Forester.

III. **Introduction**
- Description of the property and specific management objectives from the proposal
- A detailed map or diagram showing which practices and/or species will be in different project areas
- A brief history of land uses and a description of present conditions

IV. **Land and Resource Description**
- Existing vegetation/cover types
- Existing forest health and function including disease problems and fire threat
- Soils and their condition, general slope and aspect
- Water resources and their condition
- Timber resources
- Wetland resources
- Significant historic and cultural resources. State whether an archeological survey has been done. If so, provide a summary.
- Existing wildlife – please provide a list
- Threatened and endangered species existing on property
- Existing recreational and aesthetic values
V. Management Objectives and Practices

Describe the specific management objectives of the project. The following are eligible for cost sharing:
- Growth and management of forests for timber and other forest products
- Native species restoration and habitat improvement
- Agroforestry (forestry component)
- Windbreaks (to protect forestry project areas)
- Watershed, Riparian, and/or Wetland Protection and Improvement
- Forest Recreation Enhancement

Describe specifically how you intend to implement and maintain (for at least 10 years after installation) the following practices in order to achieve your desired forest resource management objectives. A detailed list of all species you will plant must be included. Please review the discussion of invasive species under “Seedling acquisition”. Any changes to this list at any time after the contract is executed must be approved by the FSP Coordinator. Please see pages 8 & 9 of this handbook for details.
- Site preparation
- Weed control and mulching
- Seedling acquisition
- Planting
- Fencing
- Other tree protection
- Irrigation
- Fertilization and soil amendments
- Intensive revegetation and special areas
- Trail Construction
- Non-Commercial thinning

VI. Practice Implementation Schedule

Clearly list, in a table, all specific practices, by year, total acreage, projected cost per acre, total cost, state cost-share and your cost-share according to the above. Cover a period of at least 10 years even if there is no cost-share in some of those years. Cost projections can vary widely depending on your site and should be based on relevant, real data and not simply estimated using the allowable cost-share rates provided. It may be that your share of project expense projections will exceed the state’s share in cases where real cost estimates turn out to be higher than 50% of the allowable cost-share rate for a particular management practice.

SAMPLE Implementation Schedule Year 1 (use the same format for each consecutive year)

<table>
<thead>
<tr>
<th>Practice Component</th>
<th>Units</th>
<th>Cost/Unit</th>
<th>Total Cost</th>
<th>Applicant Share</th>
<th>FSP Share</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management Plan</td>
<td>1 plan</td>
<td>$4,000</td>
<td>$4,000</td>
<td>$1,000</td>
<td>$3,000</td>
</tr>
<tr>
<td>Site Preparation</td>
<td>4 acres</td>
<td>$1,000</td>
<td>$4,000</td>
<td>$2,000</td>
<td>$2,000</td>
</tr>
<tr>
<td>Weed Control and Mulching</td>
<td>4 acres</td>
<td>$400 max. allowed=$300</td>
<td>$1,600</td>
<td>$1,000</td>
<td>$600</td>
</tr>
<tr>
<td>Seedling Acquisition</td>
<td>1000</td>
<td>$4.00</td>
<td>$4,000</td>
<td>$2,000</td>
<td>$2,000</td>
</tr>
<tr>
<td>Planting</td>
<td>4 acres</td>
<td>$300</td>
<td>$1,200</td>
<td>$600</td>
<td>$600</td>
</tr>
<tr>
<td>TOTALS</td>
<td></td>
<td></td>
<td>$14,800</td>
<td>$6,600</td>
<td>$8,200</td>
</tr>
</tbody>
</table>
VII. Budget Summary

The budget lists your projected cost-share, state share and total project costs per year for the length of the project. Cost-share amounts requested for each management practice to be applied should not exceed the cost-share rates listed in Appendix A unless you have your justification approved by the FSP Coordinator. If you are receiving other private or public funding, please create columns for each source. Please use this format:

<table>
<thead>
<tr>
<th>YEAR</th>
<th>Total Budget</th>
<th>Landowner Share</th>
<th>State Share</th>
<th>Other funding source</th>
</tr>
</thead>
<tbody>
<tr>
<td>2007</td>
<td>$38,717</td>
<td>$22,177</td>
<td>$16,540</td>
<td></td>
</tr>
<tr>
<td>2008</td>
<td>$24,882</td>
<td>$12,462</td>
<td>$12,420</td>
<td></td>
</tr>
<tr>
<td>2009</td>
<td>$25,844</td>
<td>$13,274</td>
<td>$12,570</td>
<td></td>
</tr>
<tr>
<td>2010</td>
<td>$19,660</td>
<td>$15,260</td>
<td>$4,400</td>
<td></td>
</tr>
<tr>
<td>2011</td>
<td>$23,060</td>
<td>$17,910</td>
<td>$5,150</td>
<td></td>
</tr>
<tr>
<td>2012</td>
<td>$23,060</td>
<td>$17,910</td>
<td>$5,150</td>
<td></td>
</tr>
<tr>
<td>2013</td>
<td>$23,060</td>
<td>$17,910</td>
<td>$5,150</td>
<td></td>
</tr>
<tr>
<td>2014</td>
<td>$14,750</td>
<td>$11,275</td>
<td>$3,475</td>
<td></td>
</tr>
<tr>
<td>2015</td>
<td>$14,750</td>
<td>$11,275</td>
<td>$3,475</td>
<td></td>
</tr>
<tr>
<td>2016</td>
<td>$5,250</td>
<td>$3,740</td>
<td>$1,510</td>
<td></td>
</tr>
<tr>
<td>TOTALS</td>
<td>$213,033</td>
<td>$143,193</td>
<td>$69,840</td>
<td>$0</td>
</tr>
</tbody>
</table>

Year one (1) begins upon contract execution, therefore the years listed in this table need to reflect delays in contract development and may eventually be changed.

Economic Analysis for Commercial Timber Projects

If the management objectives include commercial timber production, the plan must include some basic economic analysis such as a net present value or internal rate of return calculation. You should roughly estimate projected cost and income flows, and consider their sensitivity to changes in economic factors such as price and risks. While it may be impossible to accurately predict financial returns over time or provide precise data on silvicultural systems, it is recommended that you consider possible outcomes in consultation with a qualified resource economist or extension forester. A good resource is “Financial Analysis for Tree Farming in Hawaii” is available at [http://www2.ctahr.hawaii.edu/oc/freepubs/pdf/RM-9.pdf](http://www2.ctahr.hawaii.edu/oc/freepubs/pdf/RM-9.pdf). A downloadable model spreadsheet is available on line at [http://www2.ctahr.hawaii.edu/oc/freepubs/spreads/RM-9_forest_econ_calc.xls](http://www2.ctahr.hawaii.edu/oc/freepubs/spreads/RM-9_forest_econ_calc.xls).

VIII. Required Maps

All maps must be of at least a 1:24000 scale and include the following:
- Legend and North arrow
- Property boundary
- Existing and proposed roads
- Watercourses
- **Location Map:** Illustrates where the project property/site is on the island and in relation
to towns, major topographic features etc. (same as Pre-proposal)

- **Topographic Map** with property and project boundaries clearly marked. (same as Pre-proposal)

- **Project/Site Map**: Gives the location, orientation and layout of all management practices and other activities on the project property to clearly illustrate what is being done where, in relation to the topography, watercourses and other significant natural and cultural features of the site. The map must also illustrate the layout and orientation of any proposed tree plantings such as windbreaks, forestry plantings, and restoration areas.

- **Photographs of Project Site** clearly showing existing site conditions and vegetation for each proposed project area. Aerial photographs are not required but can be included.

**IX. Monitoring activities** - Please describe any monitoring to do done and who will do it.

**X. Other Attachments if Available (not required)**

- Existing forest stand inventories
- Maps: USGS, vegetation, roads/trails/soils, topography, archeological sites
- Sources of assistance and information, bibliography

Any required permits and environmental assessments must be approved and included when the plan is submitted to the Board of Land and Natural Resources for approval.

**Best Management Practices (BMP’s)**

All Forest Stewardship Program participants must adhere to current DOFAW *Best Management Practices* that are relevant to the project: [http://www.state.hi.us/dlnr/dofaw/pubs/BMPs_bestmanagement.pdf](http://www.state.hi.us/dlnr/dofaw/pubs/BMPs_bestmanagement.pdf).

**Distribution/use of approved Forest Stewardship Management Plans and Use of Information:**

The following information will be available as required by the Freedom of Information Act: name, address, project location, and funding provided. One of the objectives of the FSP is to generate useful information for landowners throughout Hawaii, who may also be considering forest management as a land use alternative. During the course of the project, you will be asked to share your experiences and knowledge, to contribute to the development of data and information sources for others. Once you are enrolled in the FSP your approved management plan will be made available for copy and distribution to the general public upon request. You are thus advised to delete any information that you consider to be proprietary, prior to submitting the management plan to the Forest Stewardship Advisory Committee. You can present relevant proprietary information to the Committee separate from the management plan. As required by the Freedom of Information Act, your name, project location, and funding is available, but will not be actively publicized. Although approved Forest Stewardship Management Plans are available for distribution to the general public, they should be used by potential applicants for informational purposes only. Any management plans that appear to plagiarize previously approved plans will not be accepted.
Criteria for Potential Natural Area Reserves

If you are wondering if your site can be considered a “potential natural area preserve” please review these criteria. Contact the FSP Coordinator for more information concerning other programs that may apply. The following criteria are adopted as important guides for the Natural Area Reserves Commission in selecting areas for the Natural Area Reserves System. However, the Commission shall exercise its prerogative of judgment with regard to these criteria and other criteria in selecting and recommending areas to be included in the Natural Area Reserves System.

Representativeness: Each selected Natural Area shall be representative of one or more major, natural, relatively unmodified ecosystems, geologic or physiographic features, or habitats containing endangered species of fauna or flora. The description of a proposed area shall include details of the features that make the area distinctive, unique, significant, or representative. The term representative as applied to ecosystems shall be interpreted in relation to macroclimatic zonation to ensure a balanced geographic distribution of natural areas as representative ecosystems.

Scientific Value: Each Natural Area shall have significant potential for scientific study, for teaching, for preservation of distinctive biota or other natural features, or for preserving natural genetic material. The description of a proposed area shall include details of the scientific attributes of the area.

Administrative: Each Natural Area shall be identifiable on maps and on the ground. It should be reasonably protectable from pests and from physical damage and, legally, from encroachment. Access to the area should be in conformance with the nature and purpose of the area. Utilities, communication facilities, and other right of way developments should be avoided as much as possible. Administrative or management factors should be detailed in the description of each proposed area.

Size of Areas: Each Natural Area shall be large enough, but no larger than necessary, to accomplish the particular purpose of establishing that Natural Area. A desired size is that which will provide essentially unmodified conditions in the interior portion. The cost and feasibility of protecting the area will have a bearing on the size. Some areas may be less than an acre while others may exceed 10,000 acres, where a special need is demonstrated.

Number of Areas: As many as possible of the major terrestrial and aquatic plant and animal communities and distinctive geologic features on each island should be represented in the Natural Area Reserves System. However, the Natural Area Reserves System shall not include unnecessary duplications of ecosystems or geologic features already protected in Federal Wildlife Refuges, National Parks, or private conservation groups.

Ownership: Natural Areas shall be composed of lands owned or legally controlled by the State in perpetuity. Privately owned areas desired for the Natural Area Reserves System may be obtained by gift, devise, purchase, or eminent domain as specified in the Act. Federal lands shall not be designated as Natural Areas under Act 139.
Archeological and Historic Sites

As part of creating a management plan, please submit a letter asking that the State Historic Preservation Division verify that for the TMK of the proposed project area there are no archeological, burial or historic sites present. Send to:

Administrator
State Historical Preservation Division (SHPD)
601 Kamokila Blvd. #555
Kapolei, HI 96707

If you believe there may be such sites present on the project property then you must also submit a letter to the same address telling them of your plans and noting the possible sites. SHPD will review your plans to determine whether an archeological inventory survey must be done. If so, permitted archeologists in the state are listed on the SHPD website: http://www.hawaii.gov/dlnr/hpd/archcon.htm

For more information see: http://www.hawaii.gov/dlnr/hpd/hpgreeting.htm.

Grading Permits and Soil Conservation Plans

Grading, stockpiling, grubbing, and trenching may require permits for soil disturbing work. A Special Management Area permit is required if the planned work is in the Special Management Area, this is mostly work near the coastal areas and is tied to Coastal Zone Management program requirements. Each county is responsible for issuing this permit. In some cases, an approved soil conservation plan may be acceptable. Contact NRCS or your local Soil and Water Conservation District for more information or see http://www.hi.nrcs.usda.gov/.

For more information on County Grading regulations and permits see:

**O'ahu**
http://www.co.honolulu.hi.us/refs/roh/14a10_19.htm
Section 14-14 for ordinances
http://www.honoluludpp.org/download/permits/permitlistings.asp?p_TypeID=4
for applications and information

**Hawai‘i**
http://www.hawaii-county.com/directory/dir_pubworks.htm
East Hi: (808) 961-8321 or West Hi: (808) 327-3520

**Maui**
http://ordlink.com/codes/maui/index.htm
or call 270-7242.

**Kauai**
(look under Forms, Applications, and Instructions)
Appendix C.

Environmental Assessments (EA)

Plans that include the establishment of timber with the intent of eventual harvesting must be accompanied by an Environmental Assessment (EA), including a cultural impact assessment. The FSP Coordinator can provide you with samples of stewardship plans that have been prepared to meet the EA requirements. Contacting the local community and the cultural assessment should be included within the scope of work and fees paid for the forestry professional who agrees to write the management plan. Please note that all Stewardship Plan EAs that have been submitted to date have had a Finding of No Significant Impact and therefore were not required to submit a full Environmental Impact Statement.

If you are planning to use stewardship funds to establish timber that may be harvested then you should familiarize yourself with the information in a helpful guidebook from the Office of Environmental Quality Control, available on the web at: http://www.state.hi.us/health/oeqc/publications/guidebook.pdf

From the guidebook:

“An EA is an informational document prepared by the proposing agency or the private applicant and used to evaluate the possible environmental effects of a proposed action. The environmental assessment must give a detailed description of the proposed action or project and evaluate direct, indirect and cumulative impacts. The document must consider alternatives to the proposed project and describe any measures proposed to minimize potential impacts. The public has 30 days to review and comment on a draft environmental assessment. After the draft environmental assessment has been finalized and public comments responded to, the agency proposing or approving the action reviews the final assessment and determines if any “significant” environmental impacts are anticipated.

If the agency determines that the project will not have a significant environmental impact, it issues a finding of no significant impact (FONSI). This determination allows the project to proceed without further study. Within 30 days of the notice of this finding, the public may challenge an agency’s determination by filing suit in circuit court. If the agency determines that the action may have a significant impact, a more detailed environmental impact statement (EIS) be prepared. An EIS preparation notice is then issued and undergoes an additional 30-day comment period to define the scope of the draft EIS. Publication of an EIS preparation notice initiates a 60 day period during which an aggrieved party may challenge the determination in court.”

Safe Harbor Agreements

Environmental Defense and the U.S. Fish and Wildlife Service encourage private landowners to restore and maintain habitat for endangered species without fear of incurring additional regulatory restrictions through initiation of Safe Harbor Agreements. More can be found at http://www.environmentaldefense.org/article.cfm?ContentID=136 or by contacting Bill Standley at DLNR/DOFAW 1151 Punchbowl St., Rm. 325 Honolulu, HI 96813 Telephone (808) 587-4171 Fax (808) 587-0160 Email: William.G.Standley@hawaii.gov
Conservation District Use Permit

State Land Use Law established the State Land Use Commission (LUC) in 1961, and granted the LUC the power to zone all lands in the State into three districts: Agriculture, Conservation, and Urban (the Rural District was added in 1963). DLNR was given jurisdiction over the Conservation District, formulated subzones and regulates land uses and activities therein.

The Conservation District has five subzones: Protective, Limited, Resource, General and Special. Omitting the Special subzone, the four subzones are arranged in a hierarchy of environmental sensitivity, ranging from the most environmentally sensitive (Protective) to the least sensitive (General); the Special subzone is applied in special cases specifically to allow a unique land use on a specific site. Subzone maps for each island are available on the web: http://www.hawaii.gov/dlnr/occl/.

These subzones define a set of "identified land uses" which may be allowed by discretionary permit. The Office of Conservation and Coastal Lands (OCCL) can only accept a permit application for an identified land use listed under the particular subzone covering the subject property. Most of the identified land uses require a discretionary permit or some sort of approval from the DLNR or BLNR. Major permits are required for land uses, which have the greatest potential impact, and an environmental assessment and/or an EIS is required (and may also require a Public Hearing); minor permits are required for land uses which may have fewer impacts, decision making is delegated to the Board Chairperson (and may not require a Public Hearing) or to the OCCL for other minor uses. Conservation District Use Application forms and contact information is available on the web at: http://www.hawaii.gov/dlnr/occl/documents.php.

Appendix E.

Threatened and Endangered Species

If you plan to process, collect, propagate, out-plant or sell threatened or endangered species as part of your Forest Stewardship project please contact Hawaii State Botanist for instructions and permits at 587-0165.
Allowable Cost-Share Rates

When you create your project budget, the following are the total low to high amounts that the State will reimburse for each practice. If you think your costs will be higher than the allowed rates you will need to justify these rates to the FSP Coordinator. This may require documentation such as quotations from existing companies that provide the services or materials. Rates range from Low to High and will depend on the circumstances of each project. In your management plan you will need to justify the use of the high rates or rates for practices that have no rates established. Based on Committee and State approval, your contract will set the rates for your particular project.

<table>
<thead>
<tr>
<th>Practice</th>
<th>Unit</th>
<th>State Share Low</th>
<th>State Share High</th>
</tr>
</thead>
<tbody>
<tr>
<td>Management Plan</td>
<td>per plan</td>
<td>$1,500</td>
<td>$5,200</td>
</tr>
<tr>
<td>Site Preparation</td>
<td>per acre</td>
<td>$400</td>
<td>$1,000</td>
</tr>
<tr>
<td>Fencing (types listed under practices)</td>
<td>per foot</td>
<td>$2.50</td>
<td>$7.00</td>
</tr>
<tr>
<td>Other Tree Protection</td>
<td>per acre</td>
<td>*</td>
<td>*</td>
</tr>
<tr>
<td>Fertilization/Soil Amendments</td>
<td>per acre/year</td>
<td>$100</td>
<td>$350</td>
</tr>
<tr>
<td>Seedling Acquisition</td>
<td>per seedling</td>
<td>$0.50</td>
<td>$5.00</td>
</tr>
<tr>
<td>Planting</td>
<td>per acre</td>
<td>$150</td>
<td>$500</td>
</tr>
<tr>
<td>Irrigation (low=drip, high=other)</td>
<td>per foot</td>
<td>$0.50</td>
<td>*</td>
</tr>
<tr>
<td>Weed Control and Mulching</td>
<td>per acre</td>
<td>$100</td>
<td>$300</td>
</tr>
<tr>
<td>Ground Cover Establishment</td>
<td>per acre</td>
<td>$800</td>
<td>$1,400</td>
</tr>
<tr>
<td>Maintenance of ground covers</td>
<td>per acre</td>
<td>$100</td>
<td>$300</td>
</tr>
<tr>
<td>Trail Construction</td>
<td>per foot</td>
<td>$2</td>
<td>$4</td>
</tr>
<tr>
<td>Non-Commercial Thinning</td>
<td>per acre</td>
<td>$100</td>
<td>$300</td>
</tr>
<tr>
<td>Intensive Revegetation &amp; Special Areas</td>
<td></td>
<td>*</td>
<td>*</td>
</tr>
</tbody>
</table>

*The applicant must obtain at least 3 written quotes for the proposed work and/or consult with the FSP Coordinator to determine the allowable cost-share.*
Appendix G.

Allowable In-Kind Rates

In-Kind means non-cash contributions to the project. When calculating your 50% required contribution to the project, you should use these rates to determine labor and equipment cost estimates. If you want to use higher rates, please provide justification (quotes) in your plan and/or contact the FSP Coordinator.

<table>
<thead>
<tr>
<th>Hourly Rates for In-Kind Contributions</th>
<th>Current</th>
</tr>
</thead>
<tbody>
<tr>
<td>General Hand Labor per hour</td>
<td>$21</td>
</tr>
<tr>
<td>Specialized Hand Labor per hour</td>
<td>$27</td>
</tr>
<tr>
<td>Line Posts each</td>
<td>$18</td>
</tr>
<tr>
<td>Corner Posts each</td>
<td>$20</td>
</tr>
<tr>
<td>Equipment with Operator</td>
<td></td>
</tr>
<tr>
<td>1/2 and 3/4 ton truck per hour</td>
<td>$35</td>
</tr>
<tr>
<td>1 ton truck per hour</td>
<td>$40</td>
</tr>
<tr>
<td>1 1/2 ton truck per hour</td>
<td>$45</td>
</tr>
<tr>
<td>2 ton truck per hour</td>
<td>$50</td>
</tr>
<tr>
<td>2 1/2 ton truck per hour</td>
<td>$55</td>
</tr>
<tr>
<td>5 ton truck per hour</td>
<td>$65</td>
</tr>
<tr>
<td>20 ton tandem dump truck per hour</td>
<td>$85</td>
</tr>
<tr>
<td>12 ton tandem dump truck per hour</td>
<td>$75</td>
</tr>
<tr>
<td>2 and 4 wheel drive tractor per hour</td>
<td>$60</td>
</tr>
<tr>
<td>2 wheel drive tractor &gt;40 hp per hour</td>
<td>$70</td>
</tr>
<tr>
<td>D-2 or TD6 w/ attachments per hour</td>
<td>$75</td>
</tr>
<tr>
<td>D-4 or TD9 w/ attachments per hour</td>
<td>$105</td>
</tr>
<tr>
<td>D-6 or TD14 w/ attachments per hour</td>
<td>$120</td>
</tr>
<tr>
<td>D-7 or TD18 w/ attachments per hour</td>
<td>$150</td>
</tr>
<tr>
<td>D-8 or TD20 with attachments per hour</td>
<td>$180</td>
</tr>
<tr>
<td>D-9 or TD25 w/ attachments per hour</td>
<td>$225</td>
</tr>
<tr>
<td>Back-hoe per hour</td>
<td>$85</td>
</tr>
<tr>
<td>Loader per hour</td>
<td>$100</td>
</tr>
<tr>
<td>Compressor per hour</td>
<td>$25</td>
</tr>
<tr>
<td>Power saw per hour</td>
<td>$25</td>
</tr>
<tr>
<td>Power post hole digger per hour</td>
<td>$35</td>
</tr>
<tr>
<td>Power sprayer per hour</td>
<td>$30</td>
</tr>
<tr>
<td>Bobcat per hour</td>
<td>$65</td>
</tr>
<tr>
<td>Manlift per hour</td>
<td>$35</td>
</tr>
<tr>
<td>Mulcher per hour</td>
<td>$25</td>
</tr>
</tbody>
</table>
Appendix H.

Forest Stewardship Plan Signature Page

Professional Resource Consultant Certification: I have prepared (revised) this Forest Stewardship Plan. Resource Professionals have been consulted and/or provided input as appropriate during the preparation of this plan.

Prepared by:

Professional Resource Consultant's Signature/ Date

Professional Resource Consultant's Name

Applicant Certification: I have reviewed this Forest Stewardship Plan and hereby certify that I concur with the recommendations contained within. I agree that resource management activities implemented on the lands described shall be done so in a manner consistent with the practices recommended herein.

Prepared for:

Applicant's Signature/ Date

Applicant’s Name

State Forester's Approval: This plan meets the criteria established for Forest Stewardship Plans by Hawaii's Forest Stewardship Advisory Committee. The practices recommended in the plan are eligible for funding according to state of Hawaii Forest Stewardship Program guidelines and administrative rules.

Approved by:

State Forester's Signature/ Date

State Forester's Name
Appendix I.

Useful Web Sites

Archeological Consultants  http://www.hawaii.gov/dlnr/hpd/archcon.htm


            http://www2.ctahr.hawaii.edu/oc/freepubs/spreads/RM-9_forest_econ_calc.xls

Environmental Assessments  http://www.state.hi.us/health/oeqc/publications/guidebook.pdf

Forestry Consultants  http://www.hawaii-forest.org/index.html

Forestry in Hawaii (general)  http://www.ctahr.hawaii.edu/forestry/

MAPS-
Tax Maps
  Hawaii County  http://www.hawaii-county.com/maps/tmk/zone.htm
  Maui County  http://www.mauipropertytax.com/
  Kauai County  http://www.kauai.gov/default.aspx?tabid=433
  Oahu  http://gis.hicentral.com/website/parcelzoning/viewer.htm

  Topographic Maps  http://www.topozone.com

  Soil Maps  http://www.ctahr.hawaii.edu/soilsurvey/soils.htm

Natural Resources Conservation Service  http://www.hi.nrcs.usda.gov/

Soil Tests from UH  http://www2.ctahr.hawaii.edu/adsc/downloads/price_list.pdf


Taxes (Federal Income)  http://www.fs.fed.us/spf/coop/programs/loa/tax

US Fish & Wildlife Service Programs  http://pacificislands.fws.gov

WEEDS-
Weed Risk Assessment  http://www.botany.hawaii.edu/faculty/daehler/WRA/full_table.asp