

Forest Stewardship Advisory Committee Meeting Minutes

Division of Forestry & Wildlife
Kalanimoku Building
1151 Punchbowl Street
Honolulu, HI 96813
September 8, 2017

Present: Michael Constantinides (Chair), Rich von Wellsheim, Greg Hendrickson, Betsy Gagné (Ex-officio), Gregory Koob, Patrick Conant, Nick Koch, Kip Dunbar, Jay Warner, Hank Oppenheimer

Staff: Malia Nanbara, Marissa Chee, Irene Sprecher,

Guests: Katie Friday (Forest Service), Andrea Buckman (Leeward Haleakalā Watershed Partnership), Jenna Masters (Masters Unlimited LLC), Nick Shaffer (Ola‘a), Emma Yuen (DOFAW), Mel Johansen (The Nature Conservancy-TNC), Shalan Crysdale (TNC), Koa Hewahewa (Hoku Nui Maui LLC), Craig Elevich (Hoku Nui Maui LLC), Adam Laeha (Kahulu Lio Farm, Kaalaea Koa Farm), Katie Ersbak (DOFAW), Doug Young

1. Call to Order

Meeting was called to order at 9:10am by Chair Constantinides.

2. Welcome New Members and Guests

3. Review and Approval of January 20, 2017 Meeting Minutes

- The Forest Stewardship Advisory Committee (FSAC) reviewed the meeting minutes from the January 20, 2017 meeting and made the following corrections:
- Member Gagné provided written comments to staff.

Motion to approve the January 20, 2017 FSAC meeting minutes as corrected. Moved by Member Wellsheim; seconded by Member Dunbar.

Approve: Wellsheim, Gagné, Constantinides, Koob, Conant, Dunbar, Warner, Oppenheimer; Oppose: none; Abstain: Hendrickson.

Motion passed.

3. FY18 Forest Legacy Project Status

- Kamehamehenui and Haloa ‘Āina were submitted for Fiscal Year (FY) 2018 funding. An official list of how the projects scored has not been released yet because the presidential budget did not include funding for FLP in FY18. Both projects are being submitted for competitive funding in FY19.
- For Kamehamehenui, DOFAW submitted a grant application to the United States Fish and Wildlife Service (FWS) for \$2 million, but do not have results yet. DOFAW has had discussions with Maui County requesting \$3 million in funding support. A request was also made to the state Legacy Land Program and the state legislature. DOFAW is working in partnership with the National Park Service (NPS) who has Kamehamehenui as their number 6 priority for acquisition. NPS would be interested in acquiring a portion of the property. The Trust for Public Land has been in contact with the landowner and broker, and NPS has done an appraisal. Member Hendrickson said there are private interests in the property.

- The FSAC can call a special meeting to approve a subdivision if necessary.
- DOFAW also applied for Legacy Land funding for Haloa ‘Āina. While the Legacy Land Commission received the application favorably, it ranked too low to receive funding. The Hawaii Islands Land Trust may have an interested private donor if the federal funds can be secured. The management plan is being updated and should be submitted for review soon.

4. FY16/17 Helemano Wilderness Area Forest Legacy Project Update

- All funding has been secured except for funding from the Navy because the deed terms are still being negotiated. The earliest that the acquisition could be completed is January 2018. There are two leases on the property, one of which DOFAW is asking to be terminated because there are multiple subleases with activities that will not be compatible with the conservation easement (CE).
- There has been a modification to the total acreage that is going to be acquired. In the application, the acreage was calculated using GIS. The acreage determined by the county was 127 acres less, however the boundary remains the same. Approval of this change in acreage is needed from the FSAC.

Motion to approve the modification in acreage for the Helemano Wilderness Area Forest Legacy Project. Moved by Member Wellsheim; seconded by Member Koob.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: none.

Motion passed.

5. FY17 Hoomau Forest Legacy Project Update

- Member Hendrickson is working with landowner to finalize the CE language. The management plan is still being developed and should be submitted for review soon.

6. FY19 Forest Legacy Projects

- The FSAC was given time to review and score proposals based the application only. The proposals will be re-scored after further discussion to capture how changes to the applications might affect their scores.

6.1 FY19 Haloa ‘Āina, South Kona, Hawai‘i County

- Some of the feedback that Staff received from national review committee was that the threat is not as clear or imminent as other projects.
- Staff Sprecher explained that the products are being sold domestically now and that they do not do direct sale.
- Guest Friday pointed out that this project has been fairly transparent about its operations. This allows it to serve as a model for others who want to do similar projects.
- Member Dunbar felt he project might receive more funding if the request is scaled back since the threat is not imminent.
- Staff Sprecher explained that the landowner is currently working with their neighbor Kamehameha Schools (KS). They have a management agreement with KS to access resources from their land for production. KS has not approached about providing funding for the acquisition.

6.2 FY19 Kamehamehenui Forest Project, Upcountry, Maui County

- Member Conant asked if there were any cultural or significant sites on the property. Staff Sprecher said that there probably are, but no official surveys have been done.
- Staff Nanbara explained that the Forest Legacy scoring guidelines say that not all of the criteria have to be included, but some reviewers do go through the criteria and check off what you do or do not have when scoring applications.
- Member Conant asked how access would be regulated. Staff explained that the State would be purchasing the property, so it would become Forest Reserve (FR). There is high interest and demand for recreation in this area, so the parcel could become an extension of the recreation opportunities in Kula. The district staff has also expressed interest in lower impact activities in the lower portion, however reforestation is a higher priority.
- Member Dunbar felt that the value of the property is more in restoring the Mauna Lei rather than recreation.
- Member Oppenheimer added that Haleakala Ranch fenced a 1,200 acre area north of Kamehamehenui for their Pu'u Pahu Preserve. Jordan Jokiel at Haleakala Ranch can provide the shapefiles for that area.
- Member Dunbar suggested putting parrotbill points on the map.
- Member Koch felt that the duality of the property is not captured well. It is hard to distinguish the high priority forest areas from the critical habitat.
- FSAC members submitted their re-scores for each project to staff.

Halua 'Āina

FSAC Member	Importance	Threatened	Strategic	Total
Betsy Gagné	30	10	30	70
Michael Constantinides	23	17	27	67
Rich von Wellsheim	29	19	28	75
Kip Dunbar				80
Gregory Koob	24	17	26	69
Patrick Conant	14	15	25	54
Nicholas Koch	30	20	25	75
Hank Oppenheimer	29	18	28	74
Jay Warner	10	10	10	30
Total	189 out of 270	126 out of 180	199 out of 270	578 out of 720

Kamehamehenui

FSAC Member	Importance	Threatened	Strategic	Total
Betsy Gagné	30	10	30	70
Michael Constantinides	24	20	26	70
Greg Hendrickson	28	18	29	75
Rich von Wellsheim	29	18	29	76

Kip Dunbar				95
Gregory Koob	28	20	30	78
Patrick Conant	19	20	30	69
Nicholas Koch	20	20	25	65
Hank Oppenheimer	28	20	30	78
Jay Warner	30	20	30	70
Total	236 out of 300	166 out of 200	259 out of 300	737 out of 800

Project	Average score	Ranking
Kamehamehenui	73.7	1
Haloa 'Āina	64.2	2

Motion to recommend Kamehamehenui and Haloa 'Āina be submitted without ranking to the Forest Legacy Program for Federal Fiscal Year 2019 funding. Moved by Member Wellsheim; seconded by Member Dunbar.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: Hendrickson

Motion passed.

7. Forest Legacy Assessment of Needs

- Guest Friday pointed out that the text does not highlight the difference between old priority maps and the new ones. Staff Sprecher explained that the priority areas or locations were changed to priority landscapes such as historically forested or native forest in agricultural zoned land.
- Regarding outreach, a draft was sent to stakeholders in March. Guest Friday commented that in the future, drafts should be sent to the counties as well.
- Chair Constantinides pointed out that there are large gaps from private lands in central O'ahu, and asked what the difference was between central Maui and central O'ahu. Staff Sprecher said that areas identified as high agricultural priority were avoided.

Motion to approve of the Forest Legacy Assessment of Needs with comments from the committee incorporated. Moved by Member Conant, seconded by Member Dunbar.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: none.

Motion passed.

8. Forest Stewardship Program (FSP) Project Proposals

8.1 Shlacter Project, Puna District, Hawai'i County

- Staff Nanbara introduced the 8.25 acre project in the Puna District on Hawai'i Island. The landowner is interested in managing the existing native forest, removing invasives, and outplanting more native species. They are also applying for the Conservation Reserve Enhancement Program (CREP).

- Member Oppenheimer recommended contacting the Hawai‘i Island Plant Extinction Prevention Program Coordinator to coordinate a site visit to identify hāhā as the correct species.
- The committee recommended planting koa in high spots given that it does not naturally occur in the area.
- Member Koch recommended using the management plan that was written for the neighboring Wao Kele O Puna as a resource while developing the plan.
- Member Hendrickson clarified that funds received through CREP do not qualify as match for FSP.
- Member Conant suggested adding rapid ‘ōhi‘a death (ROD) mitigation in the plan since it is found in adjacent areas. He also questioned if this project is restoration or gardening given that koa and sandalwood do not naturally occur there.
- Chair Constantinides commented that language in the proposal template regarding match from other programs should be modified. He also felt that enrolling in multiple programs may not be efficient for a project of this scope and size.
- Guest Friday cautioned that management activities should not wound trees, and that less management might be better for now.
- Member Koch felt that the cost per acre was on the low end, but is likely due to the amount of forest that is already in place.
- Staff Nanbara provided the committee with quotes for the creation of a management plan ranging from \$4,895 to \$15,000.

Motion to approve the project proposal for the development of a Forest Stewardship management plan with 50% cost share support for the total cost of the management plan not to exceed \$2,500. Moved by Member Wellsheim; seconded by Member Koob.

Continued discussion:

- Staff Nanbara said that the landowner is exploring going through other programs such as EQIP. They are not CREP eligible over the entire property.
- Guest Friday commented that this is an opportunity to have a good plan for medium sized landowners that are hit or will be hit by ROD. The plan should balance what the landowner wants to do and limit spread of ROD.

Friendly amendment to have the plan include a section on ROD mitigation and protocols. Moved by Member Conant; seconded by Member Oppenheimer.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: none.

Motion passed.

8.2 Masters Unlimited LLC Project, Puna District, Hawai‘i County

- Guest Masters introduced her 5 acre project in Puna on Hawai‘i Island. She is considering doing a native seed orchard for fast growing species for post-fire restoration and erosion control. She is also interested in agroforestry, incorporating bees and bee production, and possibly using goats for grass control in the future.

- Member Oppenheimer asked if she has talked to DOFAW or the National Park Service about their needs for seeds used for restoration. Guest Masters said she getting some resistance from people she has talked to because there is no designated way to apply seeds besides hand broadcasting. She is going to find resources in Hilo, and will be focused on seed zones from Hawai'i Island. Member Oppenheimer recommended contacting Lyon Arboretum regarding seed viability.
- Member Koob asked how the species were chosen. Guest Masters said it is based on her experience doing restoration work and that she focused on faster growing species that produce seed quickly. She is planning to contact Jill Wagner to rent space at her facility and may eventually build her own facility.
- Chair Constantinides asked what the layout of plantings will be. Guest Masters explained that the previous owner bulldozed the perimeter, while the center is more heavily forested with strawberry guava or 'ōhi'a. She intends to plant the fast-growing species along the perimeter while doing weed control in the heavily forested center. The business will be run through Master's Unlimited LLC.
- Member Conant said that rearing insects does not always yield the best results. Any methods used should be researched and discussed.
- Chair Constantinides commented that there are several interests on a small property and felt that silvopasture may be too much. Detailed map units and management prescriptions should be included in the plan. He also recommended paring down the amount of mulch to be around the base of the trees rather than all of the open areas.
- Member Warner cautioned against using goats since they tend to uproot plantings. Sheep were recommended as an alternative.
- The FSAC recommended downscaling the amount of disturbance proposed or avoiding areas with existing 'ōhi'a forest to limit risk from ROD.

Motion to approve the project proposal for the development of a Forest Stewardship management plan with comments from the committee incorporated, with 50% cost share support for the total cost of the management plan not to exceed \$2,000. Moved by Member Wellsheim, seconded by Member Dunbar.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: none.

Motion passed.

8.3 Kahula Lio Farm Project, Ko'olaupoko District, Honolulu County

- Items 9.3 and 9.4 are adjacent projects. The first project, Kahula Lio, is 12.5 acres located in Kāne'ohe, O'ahu. Guest Laeha explained that the area is predominately a horse stable, however there is unmanaged marginal land that was formerly grazed. The property is spring fed and they receive 78-110 inches of rain annually. They are interested in reforestation as much as possible with mixed use multi-layer agroforestry in part of the pasture. There are currently no horses, but the area will be used for horse boarding in the future. They are also working with HARC to plant wilt resistant koa. Some remnant lowland mesic forest still exists with pala'a in the understory, and some 'ōhi'a and naturally occurring koa in the overstory.

- Staff Nanbara added that the two neighboring projects are not coming in together as one because Ka‘alahea is eligible for CREP, but Kahula Lio is not. They do have a preliminary conservation plan from RCD.
- Chair Constantinides wanted more information on the erosion mat and its effectiveness.
- The FSAC recommended making sure that the species for outplanting are appropriate to O‘ahu. For example, manele should be *Sapindus oahuensis*.
- Member Conant said that the species list needs to be reviewed for spelling errors. He also felt that pukiaawe will be hard to grow.
- Member Oppenheimer commented that some of the proposed species are endangered, such as ohai, and will require permits from the state. The FSAC wanted more detail on where the plant material will be coming from.
- Member Koch recommended monitoring the HARC resistant koa closely since the trees may be wilt resistant, but not necessarily wilt free. He suggested planting multiple strains of koa to diversify the plantings. Member Koob added that there is a possibility of hybridization between koai‘a and koa.
- Guest Friday added that although hau is typically viewed as a weed, it can work if managed carefully.
- Member Oppenheimer asked what would happen if one project got funded but other did not. Adam felt that the landowner would likely still go ahead with the project.
- Staff Nanbara provided the committee with quotes for the creation of a management plan ranging from \$5,150-\$12,400.

Motion to approve the project proposal for the development of a Forest Stewardship management plan with comments from the committee incorporated, with 50% cost share support for the total cost of the management plan not to exceed \$2,500. Moved by Member Dunbar, seconded by Member Wellsheim.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: none.

Motion passed.

8.4 Ka‘alahea Farm Project, Ko‘olaupoko District, Honolulu County

- Guest Laeha explained that this parcel is different than the first in that it has a running stream making it CREP eligible. The landowner is interested in the research potential and long-term benefits.
- Member Conant commented that *Centella asiatica* is susceptible to slugs, so caution regarding rat lung worm should be used if they are going to sell it.
- Guest Laeha shared that they use milestone to treat *Dillenia suffruticosa* by applying it on the first cut of a direct incision. Every stem is treated.
- Member Koch pointed out that mulching is a large portion of the budget and should be carefully planned out when developing the management plan.
- Member Dunbar asked if cacao will be used for production. Guest Laeha said possibly in the future, but there are no set plans at this point.

Motion to approve the project proposal for the development of a Forest Stewardship management plan with comments from the committee incorporated,

with 50% cost share support for the total cost of the management plan not to exceed \$2,500. Moved by Member Dunbar, seconded by Member Koob.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: none.

Motion passed.

8.5 Nu‘u Mauka Ranch, East Maui District, Maui County

- Guest Buckman explained that the project site is highly degraded. Their goals are to re-stabilize the soil and revegetate.
- Member Conant asked if there is any data on the impact of erosion to the coral downslope. Guest Buckman said there is little data, however they recently installed some erosion pins.
- Member Koch pointed out that large projects have the potential to have a greater impact but also use a large portion of the program budget. He asked what the state's priorities are regarding projects they select. Staff Nanbara said that one of the state's goals is to encourage more of the WP to come through FSP for management plans. If annual funding levels become an issue, there is a ranking process the committee can do to decide which projects to fund at which levels.
- Member Hendrickson commented that the big budget item is the erosion control, and asked what other funding sources would be appropriate for this kind of project. Guest Buckman said they are trying to figure out who else to partner with.
- Chair Constantinides said that given the proposed actions are not typical approaches for conservation projects, the plan will need to provide as much detail as possible on how practices are implemented and the results.
- Member Hendrickson asked how far along they are in preparation of a management plan. Guest Buckman said she has an outline and progress reports.
- Staff Nanbara provided the committee with one quote of \$7,593 for the creation of a management plan.

Motion to approve the project proposal for the development of a Forest Stewardship management plan with comments from the committee incorporated, with 50% cost share support for the total cost of the management plan not to exceed the \$3,796. Moved by Member Wellsheim; seconded by Member Dunbar.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: none.

Motion passed.

8.6 Kaupō Ranch, East Maui District, Maui County

- Guest Buckman explained that this project site has one of the last valuable pockets of koa that regularly produce seeds. The area is weedy so they are looking at utilizing goats to help with weed control prior to planting.
- Member Dunbar asked if the proposed fence configuration is a function of the topography or on the ground resources. Guest Buckman explained that they tried to

capture the priority area of intact native forest. They are not going to install apron on eastern side of Nu‘u Mauka. Deer is their primary concern.

- Member Oppenheimer commented that planting endangered *Santalum haleakalae var lanaiensis* will require a permit. Guest Buckman explained that they are going to do a safe harbor agreement, as well as go through the state permitting process.
- Staff Nanbara provided the committee with one quote of \$5,416 for the creation of a management plan.

Motion to approve the project proposal for the development of a Forest Stewardship management plan with comments from the committee incorporated, with 50% cost share support for the total cost of the management plan not to exceed \$4,000. Moved by, Member Dunbar, seconded by Member Wellsheim.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: none.

Motion passed.

9. Forest Stewardship Program Management Plans

9.1 Tripavata Forest Stewardship Management Plan, North Kona District, Hawai‘i County

- Member Oppenheimer asked if any weed control trials have been conducted on tropical ash. Member Koch said that trials have been done next door, and it was found that imazapyr works well.
- Member Hendrickson commented that feral black sheep and possibly mouflon sheep are present.
- Chair Constantinides said that if there is a threat of feral animals, it should be included in the threat section. The proposed stocking rates are somewhat low. In the absence of natural regeneration, it should be acknowledged that supplemental plantings may be needed. He asked why there is no irrigation proposed in the restoration zone, as it may be needed in all planting areas. He added that the Natural Resource Conservation Service (NRCS) may be able to provide assistance with irrigation.
- Member Hendrickson said they have seen success with scarification in the area.
- Member Warner asked what is happening in inner area. Member Koch said the landowners want to have a retreat area with cottages for meditation.
- Member Wellsheim said that if there is money with NRCS for irrigation, it should be taken out of the FSP share. Chair Constantinides commented that NRCS will have a new a tree planting practice that will include micro irrigation. Staff said the budget and plan can be modified and that NRCS funds are not guaranteed.
- Member Koch said that as a consultant, it is hard to figure out what to put in the applicant share box in the budget. It would be ideal for landowners to know which programs they are going to be enrolled in during proposal development so they can include it in the budget.
- Member Hendrickson said they should reach out to their neighbors who may be interested in fencing. This would help defray some of the cost.

Motion to approve the management plan, contingent upon staff finalizing the budget should assistance from other programs be secured. Moved by Member Wellsheim; seconded by Member Conant.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer; Oppose: Dunbar; Abstain: none.

Motion passed.

Continued discussion:

- Staff explained that the landowner has talked to NRCS about CREP and EQIP. NRCS recommended they go to FSP first.

9.2 Ola‘a Forest Stewardship Management Plan, Puna District, Hawai‘i County

- Staff Nanbara explained that the project has been decreased in size in terms of active management. They are going through multiple programs and were able to clarify where the CREP area is. The back portion of the property will be more passive restoration.
- Guest Schaffer explained that the fence will go through the middle of property instead of around the perimeter.
- Member Conant asked if inviting bicyclists is necessary. He felt the impact to the forest would be high and they might not get enough business with the bicycle trails. Guest Schaffer said that impacts should be minimal since they will not allow dirt bikes. Cut strawberry guava will be used to line the trails and stabilize the soil.
- Member Oppenheimer commented that *Astelia* is a Kauai endemic. *Huperzia nutans* is not known to the Big Island and is critically endangered. He also asked which species of *Clermontia* was on the property.
- Member Conant said that *Tectococcus* should ideally be put in canopy trees that touch, or on trees that flush out after being cut.
- Guest Schaffer clarified that chemical control will only be used for the strawberry guava. There is no ROD on the property yet.
- Member Koch said that the ROD preparation section should include utilizing hapu‘u as a replacement. He added that the language in the plan should be refined and that the long-term goals should be more concise.
- Member Koob asked why ai‘ai and nanea are proposed for planting. Guest Schaffer explained that the nanea will be used for ground cover. Member Oppenheimer suggested using uluhe as a ground cover.
- The committee recommended conducting bird and insect surveys.
- Member Wellsheim felt the document would be stronger if the entire perimeter was fenced.
- Member Constantinides was concerned about the amount of trail work proposed. This could have a large ecological and budgetary impact creating permanent weed ingress. Guest Schaffer explained that they will only be taking out ‘ōhi‘a along the perimeter trail for the fence, leaving as much ‘ōhi‘a as possible.
- Chair Constantinides said that trail maintenance should be the owner’s responsibility and that mulching is a big portion of the budget.

- Guest Shaffer said they are willing to take out some of the trails to lessen the disturbance and budget.

Motion to defer the management plan and send back comments to the landowner to be resubmitted to the committee for approval. Moved by Member Wellsheim, seconded by Member Conant.

Continued discussion:

- Member Warner suggested creating footpaths instead of wide trails for access.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: none.

Motion passed.

9.3 Honomalino Forest Stewardship Management Plan, Kona County, Hawai'i Island

- Staff Nanbara explained that the committee will be approving the plan for the Forest Legacy Program and FSP.
- Guest Crysdale said that the plan identifies their 18 year track record of management. One of their goals is to produce a quality stand of trees through scarification.
- Member Koch said that the plan is well written, but the management action section needs more detail and focus on what will be done versus what has already been done.
- Guest Johansen said that the 22 miles of fence is inspected twice a month.
- Member Wellsheim asked if they are working with other programs to receive funding. Guest Crysdale said they have gone to NRCS in the past. He asked if NAPP would be interested in helping fund the fence monitoring. Guest Yuen said she would be hesitant given that it is another DOFAW program.
- Guest Crysdale commented that the preserve is not receiving Natural Area Partnership Program (NAPP) funding given that it is not appropriate to have production in a NAPP.
- Member Dunbar asked about the longevity of the existing fence. Guest Johansen said the fences are 10 years old and are falling apart from vog and acid rain. Guest Crysdale said it would be ideal to redo the fence at one time, but with limited funds, the goal is to keep staff onsite rather than a full fence replacement at one time.

Motion to approve the management plan for the Forest Legacy Program. Moved by Member Wellsheim; seconded by Member Hendrickson.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: none.

Motion passed.

Motion to approve the management plan and budget with comments from the committee incorporated. Moved by Member Hendrickson; seconded by Member Conant.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer; Oppose: Dunbar; Abstain: none.

Motion passed.

9.4 Hoku Nui Maui LLC Forest Stewardship Management Plan, Upcountry District, Maui County

- Staff introduced the plan for the 34 acre project in Upcountry Maui. The project will be multi use involving restoration, agroforestry, homes, and pasture. They are also looking at potentially enrolling in CREP.
- Guest Hewahewa said that they are working with several community members, and that restoration is their main goal.
- Member Koob asked why they were considering planting hau since it is viewed as a weed. Guest Hewahewa said that they wanted to list a variety of species and may remove it later.
- Member Oppenheimer said that there is no record of kauila from Haleakala and that planting it would require permitting. Lama and neneleau would probably do well there.
- Guest Hewahewa said they have planted 'ai'ai which is doing well as a ground cover.
- Chair Constantinides felt that the site prep process is very complex.
- Guest Hewahewa said they are more focused on fencing the forest rather than the whole property.
- Member Hendrickson asked if the configuration is related to the development plan or appropriate areas for reforestation. Guest Hewahewa said there are tax map key issues. The goal is to create a native corridor and potentially expand into the pasture units.
- Member Wellsheim commented that if they fence the perimeter, they will not need to create "serpentine" corridors. They would just need to do rotational grazing with electric fencing. The current proposed fencing length is almost the same as the length needed to fence the perimeter.
- Chair Constantinides commented that the "serpentine" reforestation areas only represent 30% of the project, but 50% of the budget because of the fencing. The inefficiency of the fencing is an issue, however taking the plan to other programs may get a different response for what could be supported related to fencing. Ecologically, a block forest is more functional than narrow strips.
- Member Warner asked if funding for fencing could be provided from other entities such as those with the cattle interests.
- Member Oppenheim said there is going to be a lot of edge effect.
- Member Dunbar commented that they will not be able to use barb wire strands unless they consult with US Fish and Wildlife Service. He also felt that NRCS may help fund rotational grazing with interior fences.
- Guest Hewahewa said he has observed that trees respond better when planted with other canoe crops.

Motion to defer the management plan and send back to the applicant with comments to be resubmitted to the committee for approval. Moved by Member Dunbar, seconded by Member Koob.

Approve: Wellsheim, Gagné, Koob, Conant, Constantinides, Hendrickson, Warner, Oppenheimer, Dunbar; Oppose: none; Abstain: none.

10. FSAC New Members and New Chair Elect:

- Member Warner announced that he will be withdrawing his application from consideration.
- Staff Nanbara said that the guidelines need to be revised and reminded the committee of what members are typically recommended for the committee.
- There were four applications for four open seats this term. Member Wellsheim and Member Hendrickson have both reapplied. JB Friday, Extension Forester with the University of Hawai'i Cooperative Extension Service, along with Trae Menard, Director of Forest Conservation with The Nature Conservancy have also applied.
- The committee reviewed and recommended representatives for the FSAC based on the State and Federal guidelines.

The committee unanimously voted to accept Rich von Wellsheim, Greg Hendrickson, JB Friday, and Trae Menard to the FSAC.

11. Joint Consultation Update

- Staff Nanbara explained that they would like to have more crossover between the NARS Commission and FSAC by having members from each group go to the other's meetings.
- Guest Yuen wanted more integration between the Forestry program and Native Ecosystems program, so that knowledge about budget constraints and what projects they are funding can be shared.

Announcements and Travel

- Meeting dates were set for the next year: January 19, April 20, July 20, October 5.

Meeting adjourned at 3:45pm