

GRANT PROGRAM: Forest Stewardship (FY 2006)

PROJECT COORDINATOR: Joseph Tuquero

#### STATEMENT OF NEED/BACKGROUND

The Ugum watershed restoration project continues to be a priority. The focus this planting season for the Ugum 8yr-old plantations will re-introduce several thousand native plant species (8 different species) in the understory to enhance native ecosystems, wildlife habitat, soil and water quality.

Planting of 5-10 thousand erosion control tree seedlings (*Acacia confusa* and *Casuarina equisetifolia*) will target the badlands and grasslands of about 10 Acres in the Fouha watershed. This project will primarily involve the village community of Umatac, where the watershed is located. The amount of sedimentation flowing into the river that ultimately end up in the ocean and destroying the reef will also be significantly reduced.

Guam's atoll island, Cocos Island, will be addressed this year. There is currently a planning process undergoing to replenish the island with native plant species and the release of an endangered bird species. This year, Forestry will concentrate on the removal and reduction of undesired plant species, primarily invasive species. Planting activities may begin next year.

Native plant species is the focus of Forestry's nursery resources. Only two introduced species is propagated in the nursery, *Acacia confusa* and *Gliricidia sepium* (for windbreaks). *Acacia confusa* is needed for erosion control projects as they continue to grow vigorously in badlands and grasslands.

Forestry's nursery is still undergoing major renovation, which is needed to enhance plant health and human safety.

Promoting good stewardship of the land has always been an integral aspect in the protection and conservation of the island's natural resources. Public outreach activities at the schools and other accessible venues are on-going. Educating the public about the forest stewardship program remains a priority.

#### GOALS AND OBJECTIVES:

1. Encourage private landowners to plant nitrogen fixing tree species to change the savanna vegetation to forestlands.
2. Provide technical assistance and tree planting materials to cooperators.
3. Visit previously assisted cooperators and encourage replacement of damaged and dead trees.
4. Encourage inter-planting of native species under existing *Acacia* stands and native species for windbreaks.
5. Educate the general public of the importance of protecting the forest.

6. Provide Stewardship Plans and technical assistance in Fouha Watershed project in Umatac. A total of 3,000 acres targeted for watershed restoration for coral reef restoration at watershed outfall with 30 acres targeted for planting this fiscal year.
7. Implement the “Southern Guam Vegetative Strategy” as part of any Forest Stewardship plans.
8. Implement reforestation project at Cocos Island.

Based on records, the Staff and Workload of this program are listed below:

<b>Personnel</b>	<b>%Workload</b>	<b>Remarks</b>
Division Chief	25%	administers the program
Forester II	70%	over sees the program
Forester I	50%	assists the Forester II with forestation projects
Administrative Assistant	50%	assists with administrative matters
Forestry Aide II	25%	leads field crews
Forestry Aides I (3)	50%	assists with seedling production and field activities
Clerk Typist III	50%	type and files documents

#### **SPECIFIC ACTIVITIES:**

1. Encourage at least 5 new private landowners to participate in the program.
2. Prepare at least 5 new Forest Stewardship Plans that will meet the FSP standards and be written in the new format.
3. Provide at least 20,000 plant seedlings to cooperators.
4. Add at least 100 more non-industrial private forest land and/or territorial land acres to the current assisted FSP acreage total.
5. Conduct at least two meetings with FSP Coordinating Committee members for the fiscal year.
6. Inspect project site prior to planting and a follow-up visit every six months thereafter.
7. Participate in the Farmer’s Appreciation Week, University of Guam Charter Day Celebration in March and Earth Day celebration in April 2006.
8. Conduct 2 workshops on native tree propagation protocols for the year.
9. Upgrade GIS capability to comply with SAP program.

#### **EVALUATION AND MONITORING:**

Success will be measured by number of cooperators assisted, total number of acreage and trees planted and the percentage of survival.

**KEY PERSONNEL:** Belmina Soliva, Forester I, will be the contact person for on the groundwork and composing FSP plans for cooperators. The Stewardship coordinator, Joseph Tuquero, Forester II, will oversee the FSP program

PERFORMANCE REPORTING: Semi-annual progress reports and financial status reports, quarterly requests for reimbursal, a final accomplishment report and annual Performance Measurement Accountability System reports.

	Federal	Local
a. Personnel	\$50,852	\$52,157
b. Fringe Benefits	\$14,694	\$17,680
c. Travel, Stewardship conference, Chief to WFLC Meeting,	\$5,000	
d. Equipment, back pack sprayers, planting tools, GPS units	\$2,500	
e. Supplies, Sunshine mix, fertilizer, containers, seeds, office supplies, pesticides, herbicides, irrigation supplies	\$4,454	
f. Contractual: Forest Management workshops, brochure printing, sign making, poster printing, equipment repair	\$2,500	
<b>TOTALS</b>	<b>\$80,000</b>	<b>\$69,837</b>

### GRANT PROPOSAL

I. GRANT PROGRAM: Reforestation, Nursery and Genetic Resources (FY 2006)

II. PROJECT COORDINATOR: Joseph Tuquero

III. STATEMENT OF NEED / BACKGROUND (Overall program)

The Forest Nursery plays a very important role by supplying the planting needs of all the programs related to tree planting on the island. This program also caters seedlings to other government agencies, schools, civic organizations and private individuals interested in planting trees. The goal is to increase the production of native tree seedlings and to increase production of native tree seedling stocks and the propagation of rare endemic tree seedlings.

VI. GOALS:

1. Production of containerized Acacia Confusa, Casuarina and native tree species for planting stock.

2. Increase propagation of endemic tree seedlings.
3. Identify native and exotic mother trees as a local source of seeds.
4. Improve existing forest nursery.
5. Propagation of rare native tree species through tissue culture methods.

Objectives:

1. Raise 50,000 to 100,000 seedlings of various species.
2. Collect seeds from mother trees around the island and on established plantations.
3. Raise two to three thousand native tree seedlings for Urban Forestry Stewardship, other related tree planting programs and enrichment planting.

VI. SPECIFIC ACTIVITIES:

1. Seed collection (January - December)
2. Sowing (January - April)
3. Pricking / transplanting (February - September)
4. Bagging (January - December)
5. Servicing and cleaning of nursery and equipment - (July - November)

VII. EVALUATION & MONITORING:

Annual progress reports and financial status, reports, a final accomplishment report, annual Performance Measurement Accountability System reports to Forest Service.

The success of this program will be measured by the number of seedlings raised as stipulated in the objectives.

***\*NOTE: The Forestry & Soil Resources Division has received \$25,000 in coral reef grant money and \$26,500 in Coastal Zone (NOAA) money to implement forestry practices to restore healthy watershed functions in the Fouha and Ugum Watershed. The bulk of the Nursery supplies and equipment will be purchased through these monies.***