

## ABSTRACT

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### USING ARTIFICIAL CANOPY GAPS TO RESTORE AVIAN HABITAT IN TROPICAL TIMBER PLANTATIONS.

(co-chairs: Thomas Wentworth, Martha Groom)

The potential for plantations to catalyze forest regeneration on highly degraded land and the need to research management methods to increase biodiversity within plantations have been widely recognized. Our study investigated the effects of creating artificial canopy gaps by girdling exotic timber trees in plantations on the germination, growth, and survival of native tree species that may be important food plants for the Puerto Rican parrot. We found that seedling growth increased significantly in gaps; there were no differences in survival or germination between gap and closed plots. Percentage cover of grasses, shrubs, and vines increased but did not prevent tree seedlings from growing significantly more in gaps. Leaf litter removal had no effect on germination, growth, or survival. Both local and landscape level diversity is predicted to increase in gaps if large saplings present in the understory replace the girdled timber trees, but plantations will still be dominated by exotics and timber species. Our results suggest that restoration of native forest diversity in plantations will require continued management to remove exotic species and promote growth of tree species with high wildlife habitat value.

USING ARTIFICIAL CANOPY GAPS TO RESTORE AVIAN HABITAT IN TROPICAL TIMBER  
PLANTATIONS

by

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## DEDICATION

I dedicate this thesis to Karl Magnacca for his intellectual support from the inception to the completion of this endeavor and for his enduring friendship.

## PERSONAL BIOGRAPHY

Faith Inman was born on December 4, 1971 in Burlington, Washington USA, the second daughter of Caroline O’Devlin and Philip Inman. She was raised in Southern California and attended the University of California Santa Barbara (UCSB) with a major in Environmental Studies immediately after graduation from Troy High in Fullerton, CA in 1989. After one year at UCSB, she left to join Earth First! in Eugene, Oregon and finally settled on an organic farm in Waukon, Washington. After studying European Literature and German at Spokane Falls Community College, she enrolled at The Evergreen State College in Olympia, Washington in 1993 where she earned a BAS degree with a focus in French and Ecology in 2000. Before completion of her undergraduate degree she took time off to travel and work in Nepal, India, Europe, and Africa. After completing her BAS she worked on wilderness revegetation crews in Olympic National Park, Hawaii Volcanoes National Park, and Mt. Rainier National Park. She began her research on habitat restoration in Puerto Rico in March 2003. The results of her research are contained in the following pages.

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## 1. INTRODUCTION

Habitat loss due to deforestation and competition with invasive species are the leading causes of species extinction in the tropics (Dirzo and Raven, 2003). Following deforestation, disruption of soil nutrient cycling processes, repeated burning, and colonization by persistent herbaceous species may inhibit forest regeneration. One proposed solution is to plant fast-growing timber species to rehabilitate degraded land. In the plantation understory, advance regeneration of native trees can be higher than on unplanted land because timber trees suppress herbaceous species and reduce fire frequency while increasing animal mediated seed dispersal into plantations (Duncan and Chapman, 2003; Otsamo, 2000). Mid- to late-successional forest species are more likely to recruit into the shaded plantation understory than pioneer species, and forests in later successional stages have many times more wildlife diversity than young forests (Terborgh and Petren, 1991). Thus plantation forests may “jump-start” natural forest succession following disturbance (Lamb, 1998; Lugo, 1997).

However, monoculture or mixed species plantations provide poor wildlife habitat compared to diverse native forests (Kanowski et al., 2005). Although plantations may promote early establishment of native forest species, advance regeneration is typically suppressed in the forest understory due to low light conditions and most tropical forest trees rely on canopy gaps to reach maturity (Popma and Bongers, 1988). Unless trees are able to reach reproductive maturity, they will not produce fruit for wildlife and the habitat value of the forest will continue to be low. Currently there are more than 44 million hectares of plantations in the tropics that have been planted both for land rehabilitation and timber production (Lugo, 1997). Where land occupied by plantations has been designated for preservation of biodiversity, methods to convert plantations back to native forest are needed to improve wildlife habitat.

Logging and strip clearing to create artificial canopy gaps have been shown to increase seedling growth and diversity in plantations (Ashton et al., 1997; Duncan and Chapman, 2003). Although most species respond positively to gaps, some late successional species actually decline (Horn et al., 1989). Therefore, the effects of gaps on understory tree growth should be experimentally tested on target species with high wildlife habitat value.

The Caribbean island of Puerto Rico is ideally situated both ecologically and economically for studying the conversion of timber plantations to native forest and could serve as a model system for development of management protocols. Extensive plantations of both non-native and native timber species were established in Commonwealth forest preserves more than 50 years ago to promote a local timber industry (Alvarez-Ruiz et al., 1997). Meanwhile, Puerto Rico has developed

an industrialized economy and no longer relies on forest products for income, making the transition from timber plantation to wildlife preserve socially and economically acceptable. In addition, the U. S. Fish & Wildlife Service recovery plan for the endangered Puerto Rican parrot (*Amazona vittata*) calls for the re-introduction of captive-bred parrots into Rio Abajo Commonwealth Forest (Nunez-Garcia et al., 1999), a preserve in central Puerto Rico that was widely planted with timber species. In order to support a viable parrot population, local forest managers wish to improve the forest habitat in Rio Abajo. One tactic is to restore non-native plantations to native forest and increase population densities of tree species that will provide food for the parrot.

We investigated the effects of creating artificial gaps in timber plantations on the germination, growth, and survival of seven species expected to provide significant food resources for the Puerto Rican parrot. To test the hypothesis that seedlings of native tree species are suppressed in the understory of timber plantations, we measured the growth and survival of advance regeneration and planted seedlings in adjacent gap and control plots for ~18 months. To test the efficacy of direct-seeding to augment population densities of preferred parrot food species, we also measured the germination (over 18 months), and the growth and survival of seeded species in subplots with litter removal and control treatments over one year. In addition, we examined which species would be most likely to recruit to the canopy after gap creation and compared predicted species composition and diversity in gap plots with actual species composition and diversity in control plots.

Clearing large areas of forest in the humid tropics can encourage the growth of vines, shrubs, grasses, and ferns that may compete with tree seedlings. In an early planting study in Rio Abajo, Marrero (1950) found that where large areas of forest were cleared for planting, tree seedlings were smothered by vines unless they were cleared away for several years. Assuming that this would be far too labor intensive for a large-scale restoration project, we experimented with the use of medium sized gaps (400m<sup>2</sup>) to prevent encroachment of understory species that would compete with tree seedlings, while still allowing sufficient light to enter the understory to increase seedling growth.

## 2. METHODS

### 2.1 Study site

Covering 2275 ha, Rio Abajo Commonwealth Forest is the largest forest preserve in central Puerto Rico. Most of Rio Abajo lies in the wet to moist forest life zone (18° 20'N, 66° 43'W) (Ewel and Whitmore, 1973) and the terrain is mostly steep-sided limestone hills and narrow valleys typical of karst formations. Elevation ranges from 200-400 m, mean annual temperature is 21.5°C, and



rainfall is ~2000 mm/yr (Alvarez-Ruiz et al., 1997). Soils are classified as mollisols because of their high organic matter (Lowe and Ashton, 1984).

By the time the Rio Abajo Forest preserve was established in 1935, most of the forest had been cleared for agriculture and charcoal production, leading to high levels of soil erosion (Alvarez-Ruiz et al., 1997; Marrero, 1950). To decrease erosion and slow siltation of the Lago Dos Bocas dam downstream, as well as to test the potential of several species for timber production, approximately 800 ha of the preserve were planted with native and non-native timber trees between 1936-1950. Most plantation species only established well in narrow valleys and on gentle slopes where the deepest soil is found. In 1982 plantations covered more than 700 ha, or 30% of the preserve (Alvarez-Ruiz et al., 1997). However, because of the lack of local markets and the logistical difficulties of logging in the steep terrain, few plantation trees have been harvested. Rio Abajo is now a mosaic of naturally regenerating secondary forest and timber plantations.

## 2.2 Study species

Mahoe, *Hibiscus elatus* Sw. (Malvaceae), is the third most common timber species in Rio Abajo, estimated to cover 153 ha or 22% of the plantation area (Alvarez-Ruiz et al., 1997). It is a medium sized tropical tree native to Jamaica and Cuba (Little and Wadsworth, 1991). Mahoe plantations were chosen for this study because they form dense continuous canopies that apparently suppress native advance regeneration seedlings in the understory. Although mahogany, *Swietenia macrophylla* King (Meliaceae), is the most widely planted timber species in Rio Abajo, it did not establish well and the native secondary forest has regenerated in former plantations. Teak, *Tectona grandis* L. (Verbenaceae), the second most common species, was not used in this study because a) the high market value raised concerns among regional foresters and, b) it is seasonally deciduous and thus gap effects may have been less evident over the short term.

Four advance regeneration species were studied: *Cupania americana* L. (Sapindaceae), *Guarea guidonia* (L.) Sleumer (Meliaceae), *Ocotea* spp. (Lauraceae), and *Roystonea borinquena* O.F. Cook (Arecaceae). Four species were seeded into subplots: *Aiphanes acanthophylla* (Mart.) Burret, (Arecaceae), *Casearia guianensis* (Aubl.) Urb. (Flacourtiaceae), *Prestoea montana* (Graham) G. Nichols (Arecaceae), and *R. borinquena*. In addition, 6-month old container-grown seedlings of *R. borinquena* and *P. montana* were planted into three replicates. Nomenclature follows Liogier (Liogier and Martorell, 2000). Hereafter all species will be referred to by genus for the sake of simplicity within the text.

These seven native tree species were chosen because they are expected to be important food sources for Puerto Rican parrots after the captive-bred birds are released into Rio Abajo. In addition, advance regeneration species were chosen from species that occurred in all plots in sufficient numbers to permit statistical comparison. Seeded species were used only if seed sources were available. All study species are early- to mid-successional trees that are common in moist-wet secondary forest in the karst region, and all but *Casearia* have medium to large seeds. All species produce large quantities of fruit during the parrot breeding season and these fruits are known or expected to be preferred by the Puerto Rican parrot (Cardona et al., 1986). Parrot food preferences were determined from published feeding observations of wild birds (Snyder et al., 1987), or from feeding observations of captive bred birds (Adrian Garcia pers. comm.).

Except for *Roystonea*, seeded and planted species are uncommon or restricted to small, localized populations in Rio Abajo. *Roystonea* was included in both seed and planting trials because forest managers are particularly interested in increasing the population size of this species within Rio Abajo in order to supply parrots with an abundant, nutritious, year-round food supply. *Prestoea* was both seeded and planted because it is uncommon in Rio Abajo and it is currently the most important food source for wild Puerto Rican parrots in the Caribbean National Forest (Snyder et al., 1987).

### 2.3 Experimental design

#### 2.3.1 Plot set-up

A split plot design with whole plots in six blocks and a 2x2 factorial treatment structure was used in this experiment. Two square 20x20 m plots were established in each of six separate mahoe plantations in Rio Abajo, for a total of twelve whole plots in six replicates. Each plot was randomly located within plantations, with a 5-10 m buffer between the plot edge and any roads or trails. At least 10 m of intact forest was left between plots. Plots were oriented north-south. Because mature plantation trees were about 20 m tall, the 400 m<sup>2</sup> plot size minimized light heterogeneity within gap plots.

Across the center of each plot, following the contour of the slope, a permanent 20 m long transect line was established to measure ground cover. Sixteen 40x40 cm seed subplots were distributed across the center of each plot, parallel to the ground cover transect (Fig. 1). Each seed subplot was sown with 30-45 seeds from one of the four seeded species (see *Study species* above).

#### 2.3.2 Treatments

Gaps were created by girdling all non-native trees >5cm dbh within one randomly selected 20x20 m whole plot in each replicate. The other whole plot in each replicate served as a control treatment. Trees were girdled by cutting through the bark with a machete. Because mahoe commonly resprouts, herbicide was applied to bark cuts (Pathway, Dow AgroSciences). Most trees died within 1-3 months and were left standing. Trees still alive after 3 months were re-girdled and treated again with herbicide. Because leaf litter may inhibit germination and growth of native trees (Facelli and Pickett, 1991; Myster, 1994), leaf litter and vegetation were removed in half of the seed subplots at the time seeds were planted. Leaf litter and vegetation were not continuously removed following the initial seeding.

### *2.3.3 Measurements*

Canopy cover in each plot was estimated using a spherical densiometer. Spherical densiometers have been shown to effectively characterize forest light environments, especially when used by a single experienced researcher (Englund et al., 2000). Densiometer readings were taken in each of the four cardinal directions at four fixed points in each plot. Densiometer readings were averaged across all readings within each plot to obtain mean canopy cover estimates. Canopy cover estimates were made prior to treatment and repeated periodically throughout the study for 18 months.

To determine average basal area and basal area reduction due to treatment, dbh (stem diameter at 1.4 m) was estimated to the nearest cm for all woody species >2m tall in all plots prior to treatment and again after 18 months. All woody species >2m tall in all plots were identified, and voucher specimens of all species were deposited in the North Carolina State University Herbarium (NCSC).

To predict the future species composition of canopy trees, we examined the diversity of large saplings in gap plots that would be most likely to fill the canopy gaps created by dead timber trees. We assumed 1:1 replacement of timber trees with large saplings in the understory. That is, for every mature canopy tree (> 10 cm dbh) that we girdled, the next largest live sapling in that plot was predicted to recruit to the canopy. We calculated alpha diversity as the average number of actual (for closed plots) or predicted (for gaps) canopy species per plot and gamma diversity as the total number of actual or predicted canopy species encountered in all plots.

To assess treatment effects on growth of herbaceous species, the percentage cover of vegetation <2 m tall was estimated using the pole-point transect method, in which a 2 m long pole was placed vertically every 5 cm along a permanent 20 m transect and all live vegetation touching the

pole was recorded in the following cover classes: fern, grass, shrub, tree, vine. The substrate type, either leaf litter or soil, was recorded if no live vegetation touched the pole. Percentage cover was calculated by dividing the number of points counted for each cover class by the total number of points along the transect (200).

To compare growth and survival of advance regeneration in gaps and closed plots, 8-20 seedlings of *Cupania*, *Guarea*, *Ocotea*, and *Roystonea* were randomly selected from all seedlings 10-50 cm tall within each plot and marked with permanent metal tags (788 seedlings total). Height and basal diameter of all tagged seedlings were measured prior to the girdle treatment and re-measured periodically for approximately 18 months post-treatment.

Plant height for dicot species was measured from the ground to the apical meristem. For palms, plant height was measured from the ground to the point where the lowest leaf petiole separated from the main stem, and leaf height was measured from the ground to the tip of the longest leaf. All height measurements were made to the nearest 0.5 cm. Basal diameter for all plants was measured just above ground level to the nearest 0.1 mm. Growth was calculated by subtracting initial measurements from final measurements for each tagged plant.

In August 2003, 30 *Prestoea* and 23 *Roystonea* container-grown seedlings were planted into three replicates. Seedlings were approximately 6 months old when planted. When planted, the average seedling heights, basal diameters, and leaf lengths were 2.5 cm, 2.6 mm, and 15 cm, respectively, for *Prestoea* and 2.2 cm, 2.8 mm, and 25 cm, respectively, for *Roystonea*. Seedlings were randomly assigned to treatments. Measurements and growth calculations were conducted in the same manner as for advance regeneration palm seedlings.

Following the girdle treatment, seeds of *Aiphanes*, *Casearia*, *Prestoea*, and *Roystonea* were sown in subplots (30-45 seeds/subplot, 120-180 seeds/species/whole plot; total 8320 seeds) (Fig. 1). Seeds were collected from at least 10 trees in populations as near to the study site as possible (within ~15 km radius). Seeds were collected from the ground under trees or cut from the infructescence. Fruit pulp was removed and seeds were soaked for 1 hour in a 10% bleach solution to prevent rot during storage. They were stored in a refrigerator for no more than 1 month before being sown in the field.

Seeds were sown in August 2003 at the beginning of the wet season (Lugo et al., 2001). Because of poor initial germination, *Roystonea* was seeded again in December 2003. Seed germination rates were calculated by dividing the number that emerged and survived to be counted between August 2003 and December 2004 by the number sown per treatment per species. Neither *Roystonea* nor *Casearia* had sufficient germination to permit statistical analysis and were excluded from further study. Germination of *Aiphanes* and *Prestoea* was monitored for 18 months.

In December 2003, all germinated *Aiphanes* and *Prestoea* seedlings were tagged. The growth and survival of this cohort was followed for one year until December 2004 (68 *Aiphanes*, 330 *Prestoea*, 398 seedlings total). Seeded plant survival was calculated by dividing the number of seedlings that survived until December 2004 by the number tagged in December 2003. Measurements and growth calculations were conducted in the same manner as for advance regeneration palm seedlings.

We completed plot installation and took initial canopy cover, ground cover, and advance regeneration measurements in June 2003. Trees were girdled in July 2003, after which we planted seeds and measured the basal area of all trees >2 m tall. Container-grown seedlings were planted in early August 2003 with the assistance of Rio Abajo foresters and Department of Natural Resources staff. In October 2003, we counted the number of germinated seeds and remeasured canopy cover. In December 2003, we again measured ground cover, advance regeneration, and planted seedlings. As previously noted, at that time all germinated seedlings were tagged. In May 2004, we repeated all measurements except basal area estimates. In December 2004, we repeated all measurements including basal area estimates of live trees.

#### *2.4 Statistical analysis*

The square root of height, basal diameter, and leaf length measurements for advance regeneration, planted, and seeded plants, and the arcsine of the square root of canopy cover, ground cover, basal area, survival, and germination were used in the following analyses to stabilize error variances. Analyses were conducted to compare the responses of measured variables between gaps and closed plots (canopy\_treatment) and, where appropriate, between subplots in which litter was removed and subplots in which litter was left intact (litter\_treatment). Analyses were conducted to compare treatments at each time point and also with respect to change from initial to final measurements. All analyses were conducted using PROC MIXED of SAS (SAS Institute 2000).

Canopy and ground cover differences between treatments and over time were analyzed using repeated measures ANOVA with an unstructured error covariance for measurements at each measurement date on the same plot.

Differences in basal area of native and non-native species over time were analyzed using a split-plot ANOVA for each treatment with native/non-native as the whole plot factor and date as the subplot factor, followed by comparisons of native and non-native basal areas at each date if the date\*native/non-native interaction was significant.

For each species, survival of advance regeneration and planted seedlings was compared between canopy treatments using a randomized block ANOVA. Size differences between treatments over time of advance regeneration and planted seedlings were compared by species using a repeated measures ANOVA with canopy\_treatment and date as fixed factors. Replicate and replicate\*canopy\_treatment served as random effects, and we used an unstructured error covariance model for measurements over time on the same plant. An interaction contrast was used to compare growth (final - initial measurements) between treatments.

For seeded plants, a split-plot ANOVA with canopy\_treatment and litter\_treatment as whole plot and split-plot factors, respectively, was carried out on germination and survival values for seed subplots of each species separately. The height, basal diameter, and leaf length differences between treatments over time for each species were analyzed using a split-plot repeated measures ANOVA using canopy\_treatment, litter\_treatment, and date as fixed factors. Replicate, replicate\*canopy\_treatment, replicate\*litter\_treatment nested within canopy\_treatment, and duplicate plots nested within litter\_treatment\*canopy\_treatment\*replicate were random effects. In addition, an unstructured covariance model was assumed for measurements over time on the same seedling. Where the canopy\_treatment\*date interaction was significant, canopy\_treatment means were compared at each date using LSMEANS statements. An interaction contrast was used to compare growth (final - initial measurements) between canopy treatments for each species.

### 3. RESULTS

Replicate plantations were selected to represent a range of environmental conditions. Average slope was 13° and ranged from 5°-25°. Altitude ranged from 183-232 m, averaging 203 m. Soil pH ranged from 4.67-6.89, and soils had high Ca content due to the limestone parent material. Rainfall in one gap and canopy plot pair was recorded throughout the study; approximately 2500 mm of rain fell from June 2003 to January 2005.

Within three months after girdle treatment, the mean canopy cover in gaps had decreased by 10% ( $P < .001$ ). From three months post-treatment to 18 months the mean canopy cover in gaps increased by 6% ( $P = .01$ ; Fig. 2).

The average basal area prior to girdling was 47 m<sup>2</sup>/ha. Prior to girdle treatment, non-native tree species had ten times higher average basal area than natives did across all plots (Fig. 3). The girdle treatment reduced the basal area of non-natives in gaps by 90% ( $\pm 3\%$ ). After treatment, the basal area of non-native and native trees was not significantly different in gaps ( $P = .403$ ). The basal

area of non-natives in closed plots and of natives in closed plots and gaps did not change significantly during the study period (all  $P > .791$ ).

Assuming 1:1 replacement of girdled canopy trees with the next largest saplings in the understory, the predicted alpha and gamma diversities of canopy species in gaps would be higher than those in the closed canopy plantation forest. Average alpha diversity was estimated to increase by 200% for non-natives and 223% for natives in gaps. Gamma diversity of canopy species was estimated to increase by 200% for non-natives and 211% for natives in gaps (Fig. 4).

The most common species of large sapling predicted to recruit into the canopy of gap plots was the plantation species, mahoe, which represented 26% of all large ungirdled saplings. The next most common large sapling species predicted to recruit into the canopy of gap plots were *Calophyllum calaba* L. (Clusiaceae) and *Syzygium jambos* (L.) Alston (Myrtaceae), which represented 20% and 16% of large saplings respectively. After these three species, the most common species expected to recruit into the canopy were *Guarea guidonia* (6%), *Dendropanax arboreus* (L.) Decne. & Planch (Araliaceae) (5%), *Miconia prasina* (Sw.) DC. (Melastomataceae) (3%), and *Inga vera* Willd (Fabaceae) (3%). The remaining species were all represented by fewer than three large saplings likely to recruit in gaps, with 63% of all species represented by only one individual.

The cover of grasses, shrubs, and vines increased significantly more in gaps than in closed plots from June 2003 to December 2004 (Fig. 5). The average increase for grasses in gaps was from 2 to 16%, shrubs 8 to 25%, and vines 0 to 4%. Although fern cover increased from 17 to 29%, the increase was not statistically significant. Cover of trees below 2 meters in height decreased significantly in closed plots from 27 to 17%.

Plant height and basal diameter of all advance regeneration species increased significantly more in gaps than in closed plots, and leaf length increased more for *Roystonea* in gaps than in closed plots (Fig. 6). Sizes of advance regeneration seedlings in closed plots did not change significantly from initial to final measurements except for *Cupania* stem height (*Cupania* ht:  $P = .01$ ; all other  $P$  values  $> .079$ ). Survival was not significantly different in gap v. closed plots for any species (all  $P > .224$ ; Fig. 7).

Height, basal diameter, and leaf length of container-grown planted *Prestoea* and *Roystonea* increased significantly more in gaps than in closed plots (Fig. 8). Planted seedling height in closed plots did not change significantly during the study period (*Prestoea*:  $P = .279$ ; *Roystonea*  $P = .866$ ), and leaf length did not increase significantly for *Roystonea* seedlings ( $P = .283$ ). Survival of planted seedlings was not significantly different in gap v. closed plots (all  $P > .231$ ; Fig. 9).

Germination of *Prestoea* and *Aiphanes* did not differ significantly across canopy or litter treatments (all  $P > .349$ ; Fig. 10). Height, basal diameter, and leaf length of seeded *Prestoea* all

increased significantly more in gaps than in closed plots (Fig. 11). Basal diameter and leaf length of *Aiphanes* increased significantly more in gaps than in closed plots. Height did not increase significantly for *Aiphanes* in gaps. Unlike advance regeneration and planted seedlings, seeded plants grew significantly larger in closed plots over the study period (all  $P < .023$ ). Litter removal had no significant effect on growth of either palm species (all  $P > .247$ ). For both species, survival did not differ significantly across all treatments (all  $P > .440$ ; Fig. 12).

#### 4. DISCUSSION

Creating canopy gaps in timber plantations increases understory seedling growth and overstory diversity; however, forests will probably continue to be dominated by exotics and plantation species without repeated management. Our results demonstrate that tree seedlings are suppressed in the understory of mahoe plantations. Our findings are consistent with past studies on growth of advance regeneration and planted seedlings in plantations after either logging or strip clearing (Ashton et al., 1997). The methods used in this study may serve as a model for wildlife habitat restoration in preserves where plantations have been established.

All advance regeneration, planted, and seeded species studied here grew significantly more in artificial gaps than closed plots. Additionally, none of the advance regeneration species except *Cupania* had grown significantly larger in closed plots. Although all species survived as well in closed plots as in gaps, longer term experiments would likely show increased mortality in plantations. The four advance regeneration species chosen for this study, *Cupania*, *Guarea*, *Ocotea*, and *Roystonea*, are all large-seeded, shade-tolerant species. The ubiquitous presence of these species in the mahoe plantation understory suggests that dispersal and germination are not limiting factors for establishment of these species. However, few of these plants have been able to reach the canopy or grow past the seedling stage more than 40 years after plantation establishment. Thus gaps are needed to release these species from competition with plantation trees.

Both direct-seeded *Prestoea* and *Aiphanes* grew significantly more in gaps than in closed plots. However, germination did not increase in gaps, which is consistent with results found by other researchers for mid-successional, large-seeded species (Foster and Janson, 1985; Leishman and Westboy, 1994). Despite anecdotal evidence that *Prestoea* is restricted to moist micro-climates, it germinated and grew well across the range of environmental conditions found in the mahoe plantations. *Aiphanes* also has a clumped distribution in Rio Abajo but was able to germinate and grow relatively well under all plantation conditions. This fact, combined with our observations that seedlings are seldom found far from adult trees, suggests that the clumped distribution of *Prestoea*



and *Aiphanes* in Rio Abajo is likely due to dispersal limitations. For *Prestoea* and *Aiphanes*, direct seeding into plantations is an effective and efficient means to overcome dispersal limitations and increase population sizes within plantations.

Removing leaf litter had no measurable effect on germination, survival, or growth of direct-seeded species. Earlier studies have also found that the effects of leaf litter are non-significant for large-seeded, late successional species such as *Aiphanes* and *Prestoea*. In fact, Everham (1996) found higher germination of *Prestoea* under combined high light and litter conditions. However, the effects of leaf litter can depend on the type and density of litter (Facelli and Pickett, 1991; Myster, 1994). Thus, although litter removal is not necessary to increase recruitment of these species in mahoe plantations, the effects of litter on germination, especially of small seeded species, should be studied in other plantation types.

Further study is needed to determine the causes for the poor germination of both *Roystonea* and *Casearia*. *Roystonea* typically has high greenhouse germination rates, and large numbers of seedlings are found on the forest floor; yet in our study fewer than 10 seeds germinated out of more than 4,000 planted. It is possible that *Roystonea* seeds were predated by rodents, as small mammals are known to consume seeds of palm species. *Casearia*, on the other hand, is a small-seeded species with low germination under greenhouse conditions and may require careful planting to ensure viability.

Girdling non-native timber trees was an effective, simple, and inexpensive method to decrease canopy cover and increase growth of selected understory seedlings. Although the average canopy cover was only 10% lower in gap plots than in closed plots, light levels increased sufficiently to stimulate growth of understory vegetation. The benefits of girdling relative to logging include reduced damage to advance regeneration (Duncan and Chapman, 2003) and increased seed dispersal under dead standing trees (Duncan and Chapman, 1999).

Other researchers have found that most gaps close laterally from in-growth of trees surrounding the gap (Brokaw and Scheiner, 1989; Midgley et al., 1995). This is consistent with our finding that canopy cover in gaps increased significantly over 14 months post-treatment while basal area did not increase. Because gaps will quickly close from in-growth of adjacent plantation trees, periodic girdling or harvesting of mature plantation trees on the edges of gaps and removal of non-timber non-natives will be important to encourage growth of natives in restoration plots of the size and shape used in this study.

Killing all trees within a 400m<sup>2</sup> area created large enough gaps to promote seedling growth without encouraging excessive growth of herbaceous vegetation. Creating larger gaps would reduce the necessity of frequent re-girdling, but larger gaps may increase growth of herbaceous plants and

shrubs to the point that they smother tree seedlings (Marrero, 1948). Although our study design did not permit us to directly measure competition between herbaceous species and tree seedlings, past work indicates that shrubs, grasses, and vines compete with tree seedlings for light on nutrient rich soils such as those in Rio Abajo (Berkowitz et al., 1995; Holl, 1998; Putz and Canham, 1992). However, in a study in abandoned pastures in Puerto Rico, germination of *Prestoea* and *Guarea* significantly increased under herbaceous vegetation but growth was not significantly affected (Zimmerman et al., 2000). Because herbaceous growth increases significantly even in small gaps, understory growth should be carefully monitored in all experimental gaps.

Our model for predicting future canopy composition is quite simple and higher diversity estimates may be an artifact of counting understory trees, which may be more diverse than canopy trees. However, girdling effectively reduced basal area of non-natives to the same level as natives, putting natives on an equal footing with non-natives. Although mahoe is predicted to remain the most common overstory species in gaps, the second most common large sapling species, *Calophyllum calaba*, is a native species that is known to be eaten by the Puerto Rican parrot (Snyder et al., 1987). The third most common predicted canopy species, *Syzygium*, is a non-native species that was widely planted on the island because of its edible fruits. Although it may serve as an avian food species, it tolerates closed canopy conditions and is highly invasive in riparian areas (Aide et al., 2000). The five next most common large sapling species predicted to recruit into gaps are all native trees, and all except *Dendropanax* produce fruits that can be eaten by Puerto Rican parrots (Snyder et al., 1987). Fifteen of the nineteen species expected to recruit into gaps (79%) produce fruits that are eaten by Puerto Rican parrots (Snyder et al., 1987).

Tree diversity in mahoe plantations is extremely low, with just two non-native species, mahoe and *Syzygium*, making up the majority of large stems. Although overstory diversity is predicted to increase in gaps, non-natives and plantation species will still be the most common species following gap formation. Because mahoe recruits well under itself both from seed and by vegetative reproduction, it may dominate stands for many years unless it is continually removed.

#### *4.1 Future management and research*

Future management should include systematic, forest-wide girdling or selective logging of plantation trees to create small to medium sized gaps, combined with continuous removal of non-native species and seeding or planting of key habitat species. As gaps close from ingrowth of adjacent crowns, trees on the periphery of gaps can be girdled to promote continued seedling growth. However, this may increase gap size and lead to invasion of herbaceous plants. Thus, experiments

with gaps of various sizes and shapes should be conducted in Rio Abajo and other Commonwealth forests to identify optimal dimensions. While selective logging may destroy some understory saplings, the sale of timber trees could fund future restoration projects, and small seedlings have been shown to recover well from logging disturbance (Duncan and Chapman, 2003). The girdling method used in this study could easily be applied over a large area to create small to medium sized gaps throughout the Rio Abajo forest preserve.

We also recommend investigating gap effects on understory diversity in other plantation types, especially teak plantations, which cover large areas in several Puerto Rican forest preserves. Teak differs from mahoe in that it is seasonally deciduous, allowing more light to enter the understory during the dry season. However, it has larger, heavier leaves that may mechanically or chemically interfere with seed germination or young seedling survival. Because the native species recruitment in plantations can vary with the plantation species used (Ashton and Ducey, 1996; Fimbel and Fimbel, 1996; Keenan et al., 1997; Parrotta, 1995) a comparison of seedling diversity and germination between plantation types may suggest differing establishment limitations depending on plantation species. Future rehabilitation of degraded land should preferably be done with plantations of native species, which generally have higher advance regeneration diversity (Keenan et al., 1997).

Further studies should also include a larger number of native understory species and longer term measurements of large sapling growth in gaps. Fimbel & Fimbel (1996) found that the understory tree diversity in plantations was low compared with that of native forest. Thus, diversity and species composition of older native secondary forest should be compared with those of plantation forests. Considering that Puerto Rican parrots evolved and once thrived in mature karstic forest, re-establishing a diverse native community should provide optimum habitat for the parrot. Ultimately, it would be preferable to restore the species composition of the forest in Rio Abajo to a pre-colonial forest type, but this may not be possible. Unfortunately, all old-growth forest in the karst has been cleared, so a reference primary forest community does not exist. A review of botanical notes made by early explorers to Puerto Rico may permit some comparisons to be made between secondary and mature forest, in order to determine which species may be missing from secondary forest.

#### *4.2 Conclusions*

This study focused on the responses of key avian habitat species to artificial canopy gaps in timber plantations. We demonstrated that knowledge of natural processes, e.g., seedling responses to gaps, can be applied for wildlife habitat management. We suggest that plantations may be useful for rehabilitating severely degraded land, but that plantations will require continued management and

possibly augmentation planting of native species where complete restoration of biodiversity is the goal. A thorough study of tree seedling recruitment will help forest managers to determine which species should be planted or seeded and which can recruit naturally under plantations as advance regeneration. Girdling trees to create medium sized gaps avoided rampant weedy growth and understory impacts associated with logging large areas. Creating gaps resulted in increased growth of avian food species and a more diverse forest community. These improved habitat characteristics may support a higher density and diversity of wildlife species. The results of this study may be applicable to large areas of the humid tropics where non-native timber species have been planted for rehabilitation of degraded land. Our results may be especially applicable to plantations in other Latin American countries where the forest community composition is similar to that in Puerto Rico.

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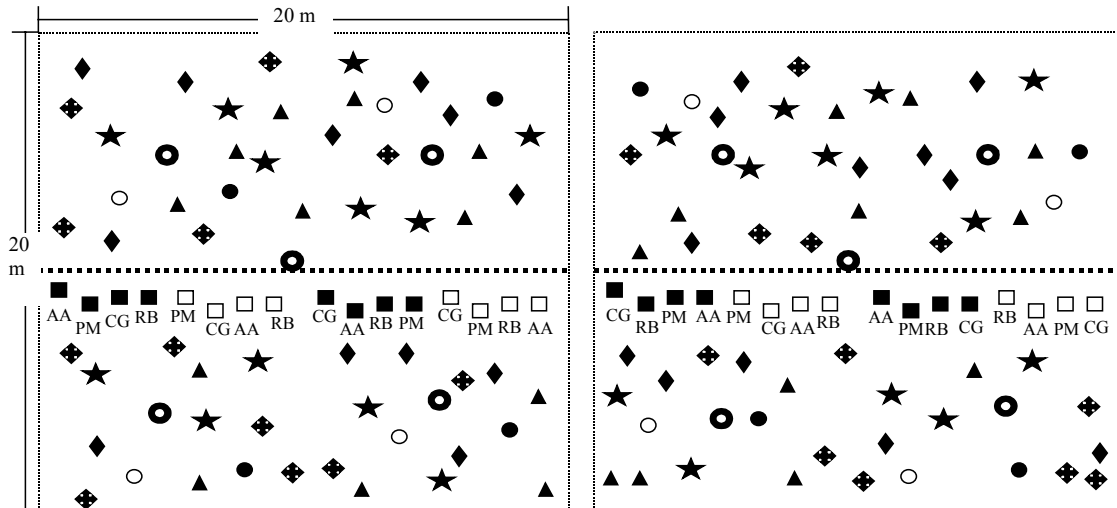


Figure 1. Plot diagram. Example of paired 20x20 meter plots representing one replicate. Plot pairs were installed in six separate plantation areas within Rio Abajo mahoe plantations in June 2003 (6 replicates total). Plots were oriented north-south and spaced at least 10 meters from the other plot. One plot of each pair was randomly selected for girdle treatment. Advanced regeneration seedlings were randomly selected from all seedlings 10-50 cm tall within 20x20m plots (8-20 seedlings per species per plot). *Cupania americana* ◆, *Guarea guidonia* ◆, *Ocotea* spp. ▲, *Roystonea borinquena* ★. Container grown *Roystonea* ○ and *Prestoea* ● seedlings were distributed throughout plots to represent a range of microsites. Canopy cover was measured at five fixed points in every plot ●. Ground cover was measured using a 20 meter transect across the center of each plot ..... Seed subplots (40x40 cm) with either litter removal □ or control ■ treatments were arrayed across plots in four block of four subplots each. Seeded species were randomly allocated to subplots within blocks. Abbreviations represent seeded species acronym: AA: *Aiphanes acanthophylla* ( 30 seeds/subplot ), PM: *Prestoea montana* (30 seeds/subplot), CG: *Casearia guianensis* (45 seeds/subplot), RB: *Roystonea borinquena* (35 seeds/subplot ).



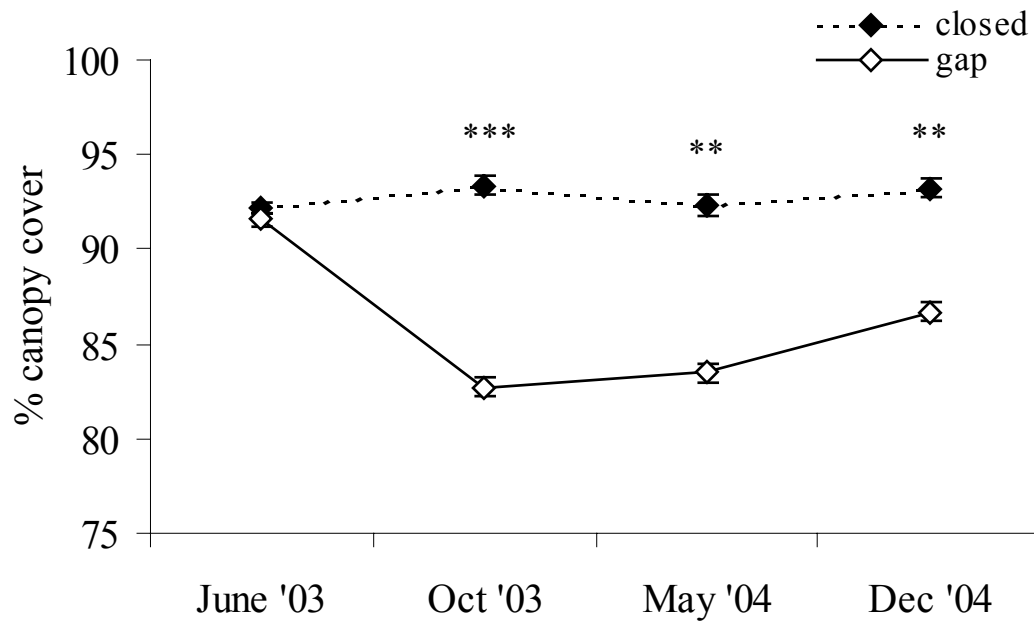


Figure 2. Canopy cover. Percent cover in gap and closed plots averaged across replicates. Significant differences at each date are indicated (\* $P < .05$ , \*\* $P < .01$ , \*\*\* $P < .001$ ). Increase in canopy cover from 3 months post-treatment to 18 months post-treatment in gaps:  $t = 2.97$ ,  $P < .01$ . Error bars represent one standard error around the mean calculated using untransformed variables.

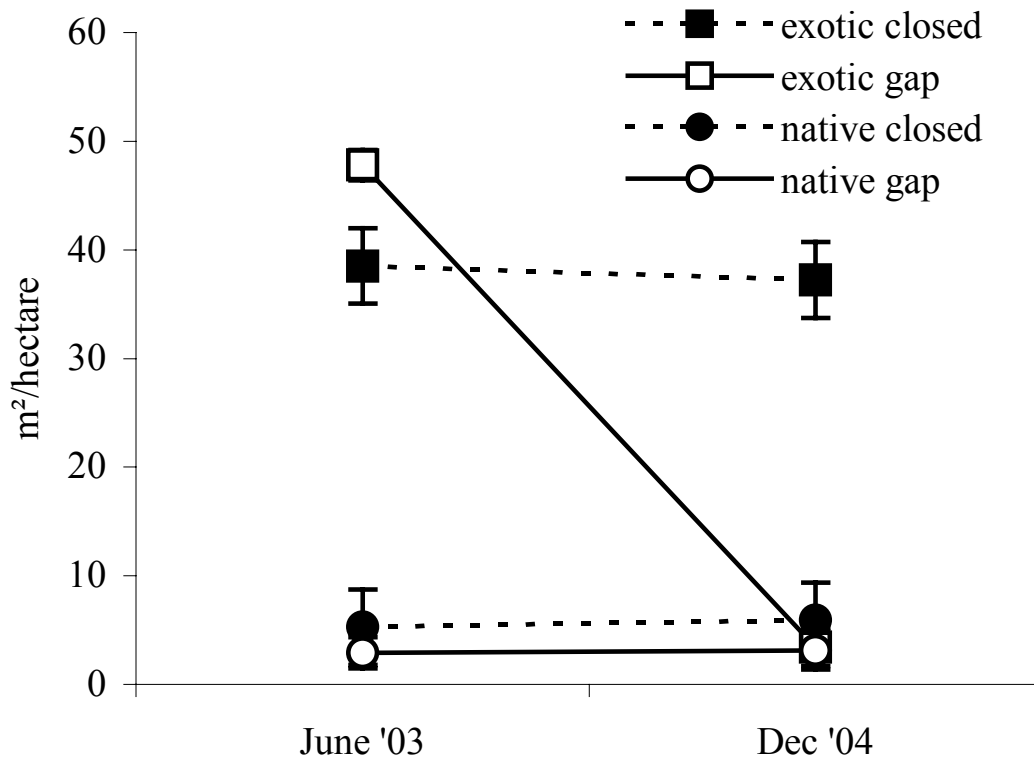


Figure 3. Basal area. Average basal area (m<sup>2</sup>/hectare) of exotic and native woody plants (>2m tall) in gap and closed canopy plots averaged across replicates. Error bars represent one standard error around the mean calculated using untransformed variables.

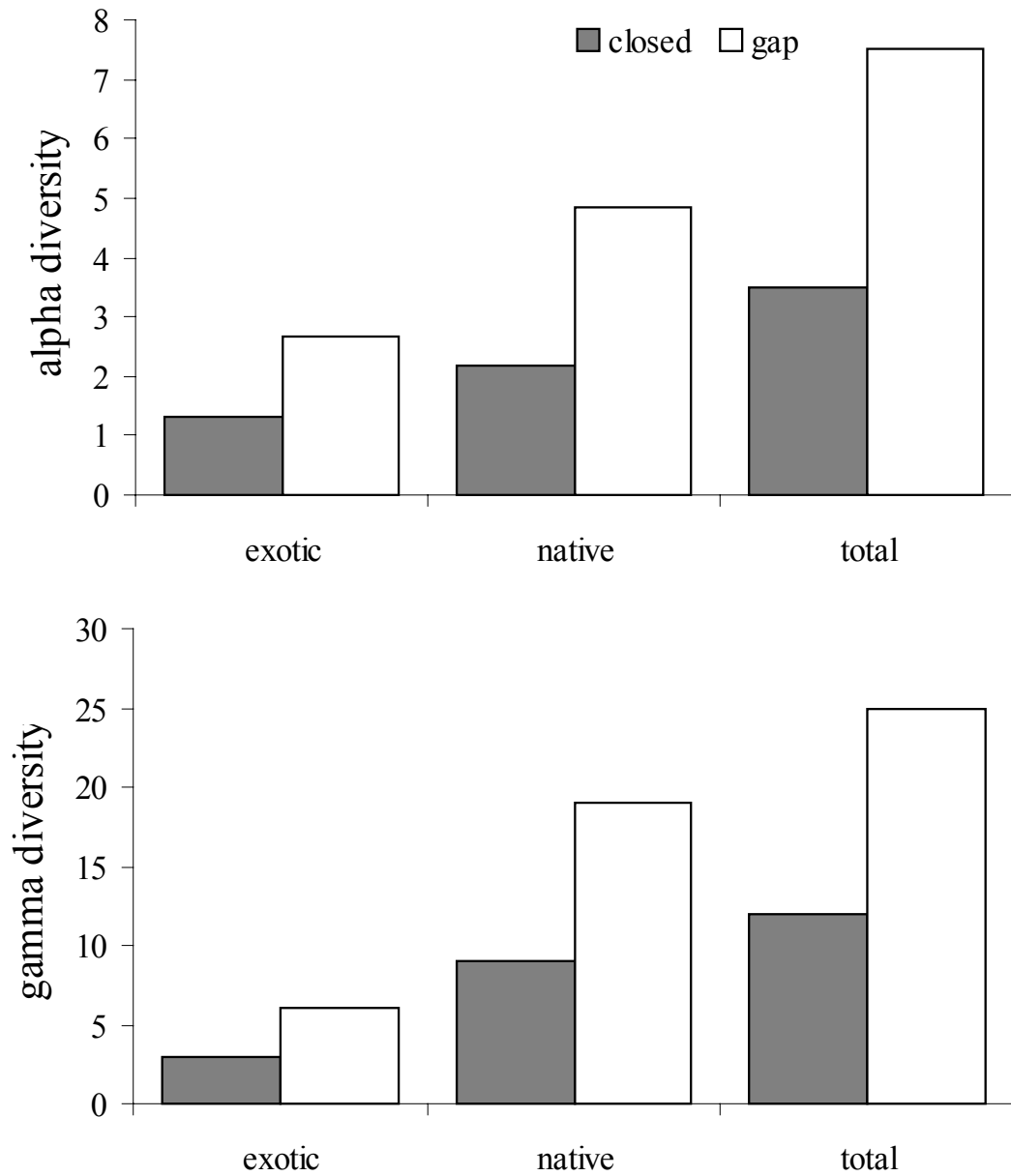


Figure 4. Predicted alpha and gamma diversity. Plot level (alpha) and total (gamma) diversity of native and exotic woody plants >2m tall in gap and closed plots assuming 1:1 replacement of canopy trees >10cm with the next largest sapling in the understory.

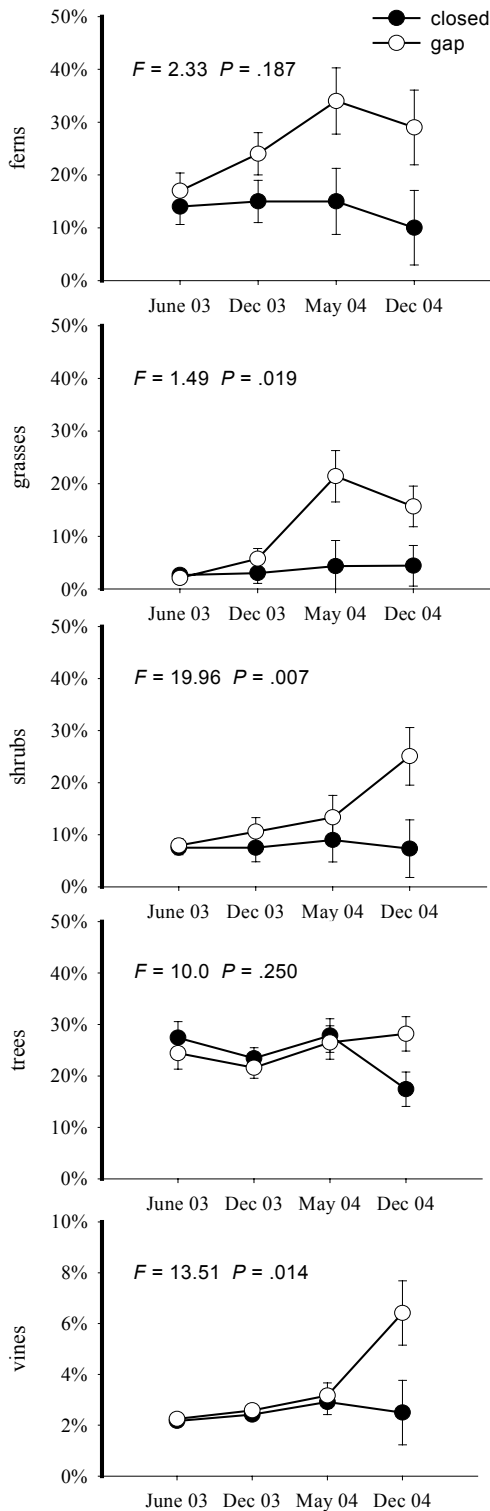


Figure 5. Ground cover. Percentage cover of ferns, grasses, shrubs, trees, and vines (<2m tall) averaged across replicates. Significant differences at each date are indicated (\* $P < .05$ , \*\* $P < .01$ , \*\*\* $P < .001$ ). Significant differences in rate of change over time between gap and closed plots are indicated by  $F$  and  $P$  values. Error bars represent one standard error around the mean calculated using untransformed variables.

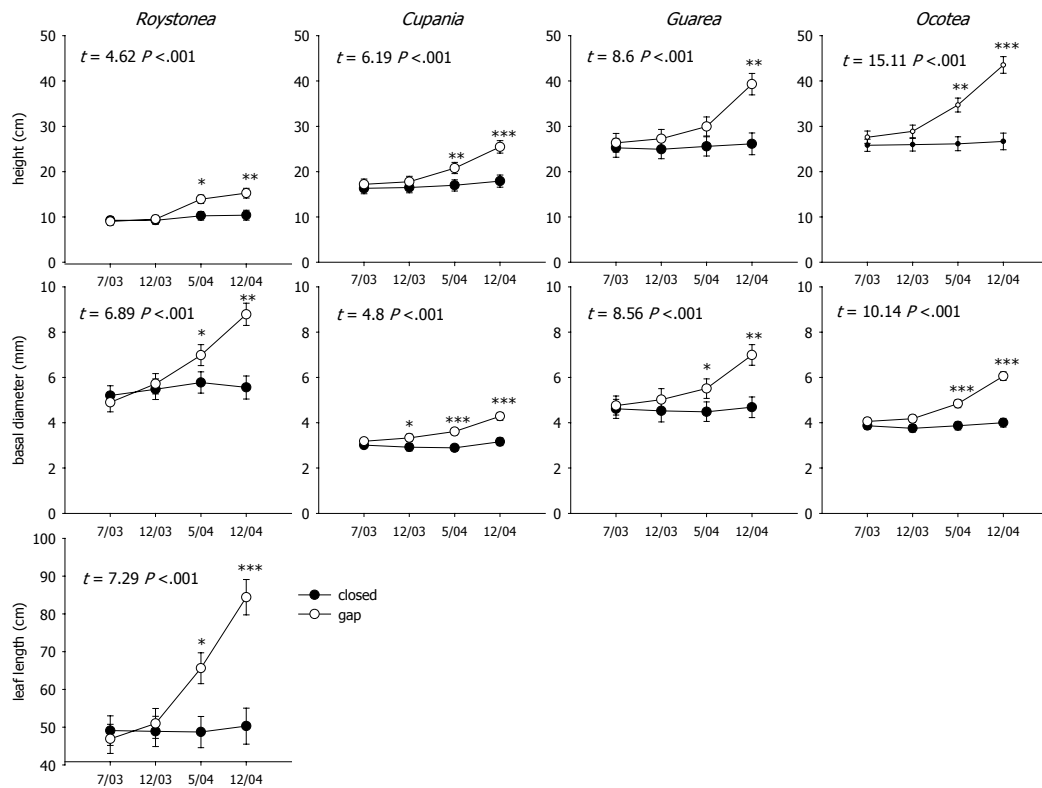


Figure 6. Advanced regeneration growth. Height, basal diameter, and leaf length (*Roystonea* only) for advanced regeneration seedlings averaged across replicates. Significant size differences at each date are indicated (\* $P < .05$ , \*\* $P < .01$ , \*\*\* $P < .001$ ).  $t$  stat and  $P$  values are presented for results of an interaction contrast used to compare growth (final - initial measurements) between canopy treatments for each species. Error bars represent one standard error around the mean calculated using untransformed variables.

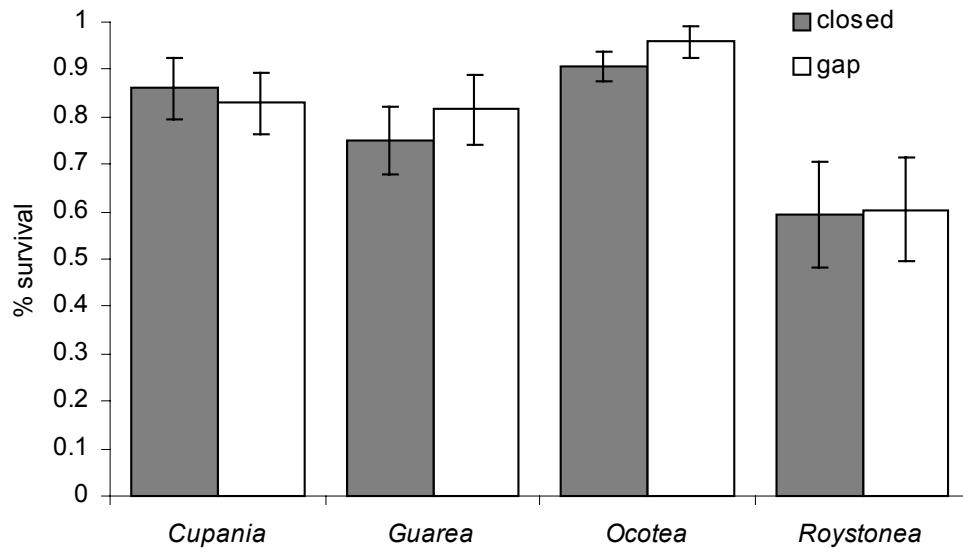


Figure 7. Advanced regeneration survival. Percent survival of advanced regeneration seedlings =  $100(\# \text{ alive after 18 months} / \# \text{ tagged})$ . Error bars represent one standard error around the mean calculated using untransformed variables.

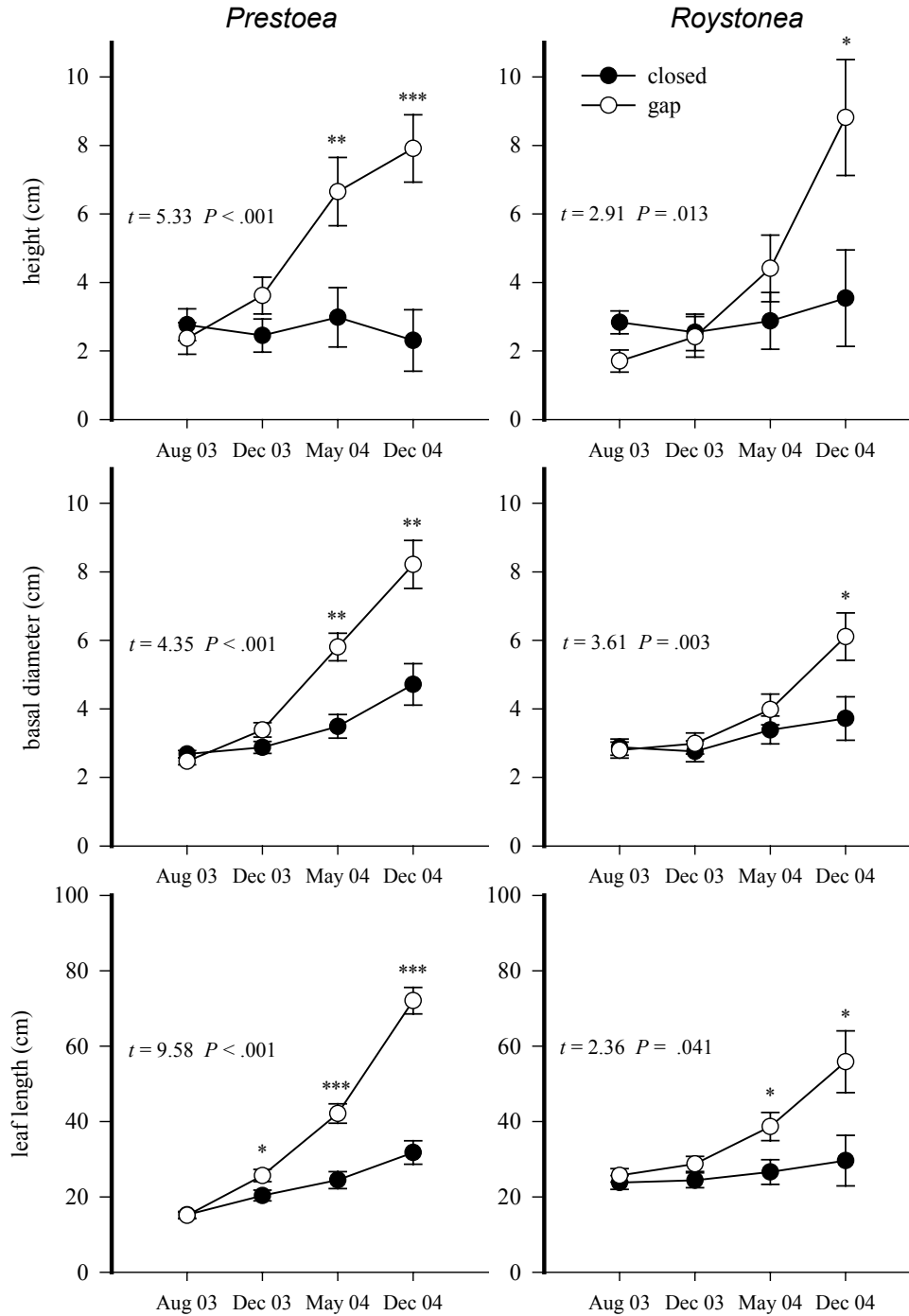


Figure 8. Planted seedling growth. Height, basal diameter, and leaf length for planted seedlings. Significant size differences at each date are indicated (\* $P < .05$ , \*\* $P < .01$ , \*\*\* $P < .001$ ).  $t$  stat and  $P$  values are presented for results of an interaction contrast used to compare growth (final - initial measurements) between canopy treatments for each species. Error bars represent one standard error around the mean calculated using untransformed variables.

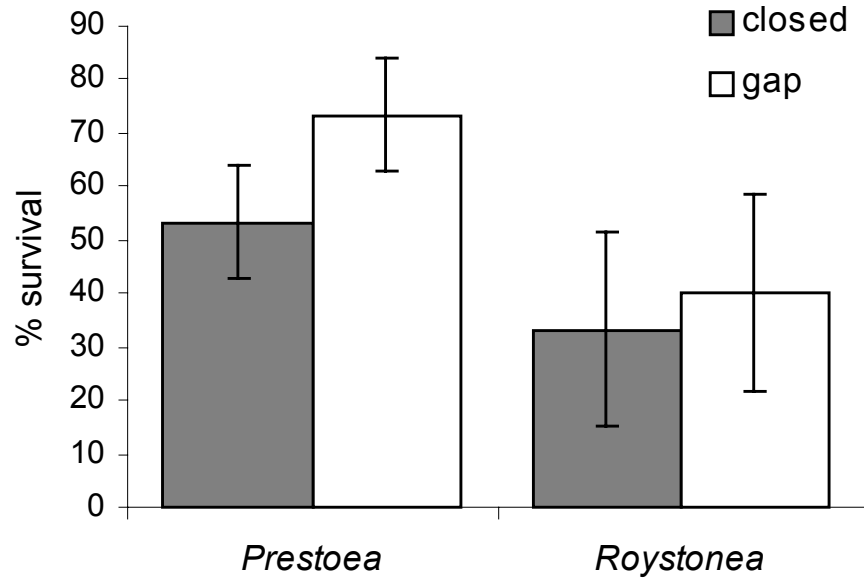


Figure 9. Planted seedling survival. Percent survival of planted seedlings =  $100(\# \text{ alive after 18 months} / \# \text{ planted})$ . Error bars represent one standard error around the mean calculated using untransformed variables.



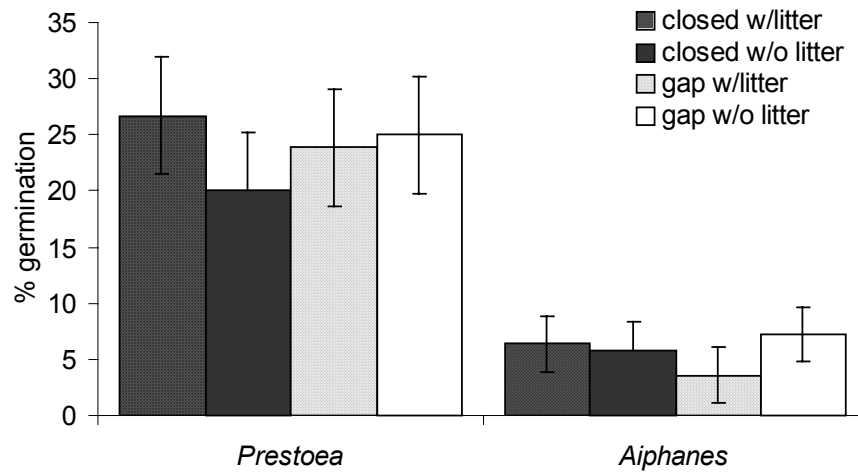


Figure 10. Seed germination. Percent germination = (number of seedlings counted / number of seeds sown)\*100. There were no significant differences between the four treatments: closed canopy with litter, closed canopy without litter, canopy gap with litter, canopy gap without litter. Error bars represent one standard error around the mean calculated using untransformed variables.

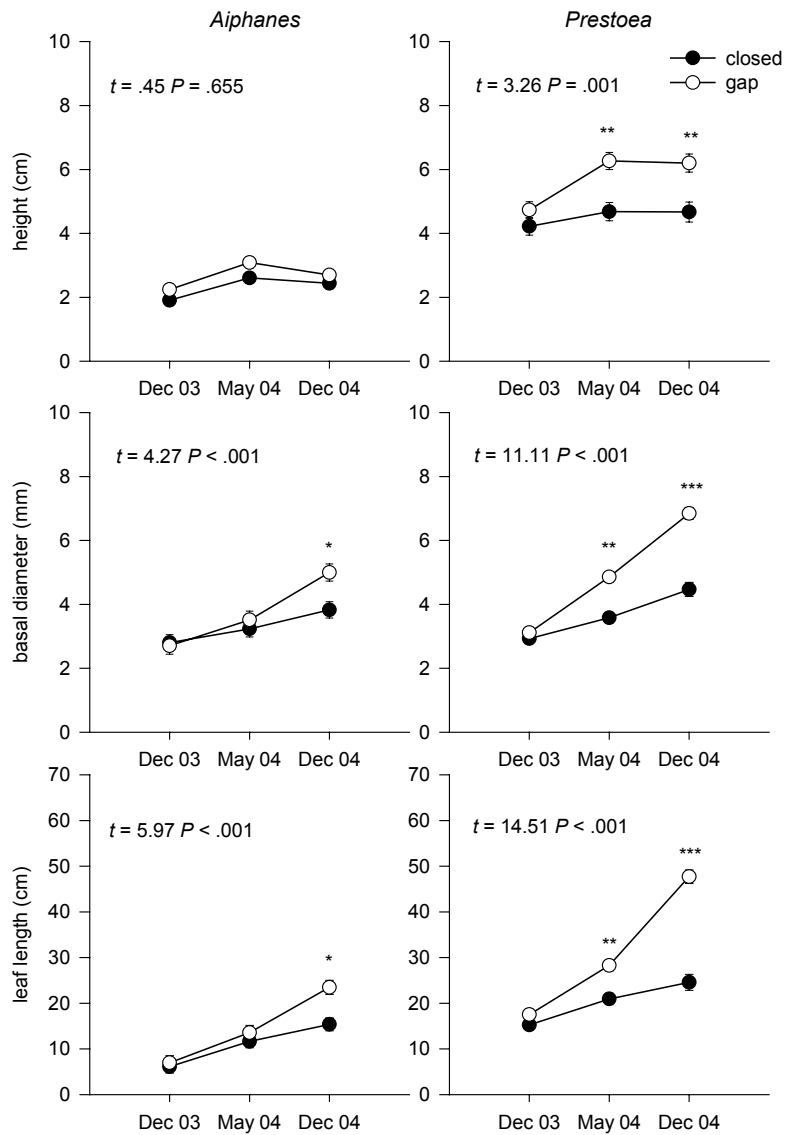


Figure 11. Seeded plant growth. Height, basal diameter, and leaf length for direct seeded plants over 1 year beginning six months post-treatment averaged across replicates. Significant size differences at each date are indicated (\* $P < .05$ , \*\* $P < .01$ , \*\*\* $P < .0001$ ).  $t$  stat and  $P$  values are presented for results of an interaction contrast used to compare growth (final - initial measurements) between canopy treatments for each species. Error bars represent one standard error around the mean calculated using untransformed variables.

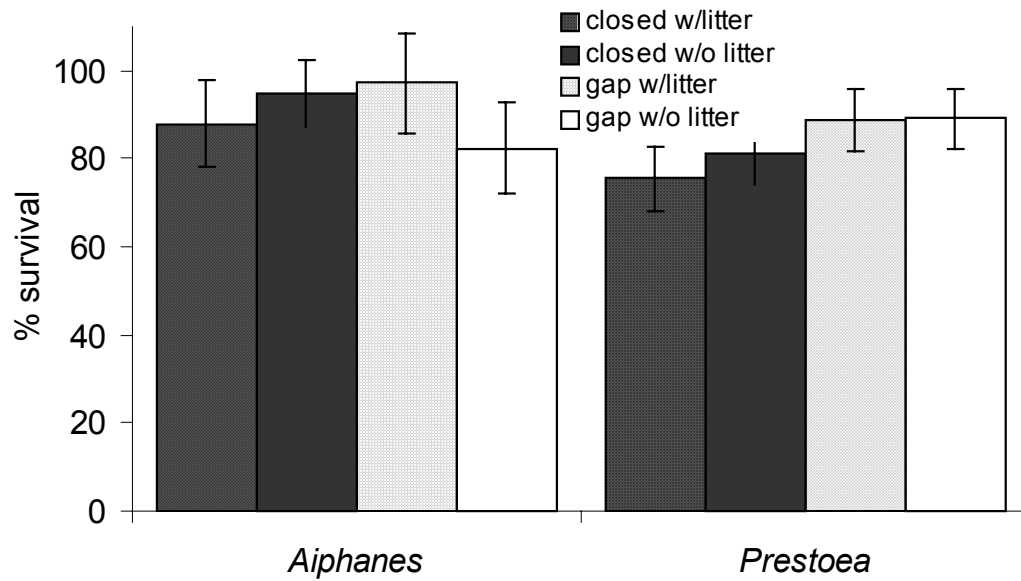


Figure 12. Seeded plant survival. Survival over 1 year beginning 6 months after seeds were sown. There were no significant differences between the four treatments: closed canopy with litter, closed canopy without litter, canopy gap with litter, canopy gap without litter. Error bars represent one standard error around the mean calculated using untransformed variables.

## 8. APPENDICES

### 8.1 SOIL DATA

Soil data were obtained by analysis of 20 cm deep soil cores taken at 5 random points within each plot. Analyses were conducted at the USDA soil lab Puerto Rico; Departamento de Agricultura, P.O. Box 10163, San Juan, PR, 00908-1163.

Plot	Treat	pH	P (ppm)	K (ppm)	Ca (ppm)	Mg (ppm)	Cu (ppm)	Fe (ppm)	Mn (ppm)	Zn (ppm)	OM (%)
1A	control	6.66	8.75	249	8804	265	0.9	1	0.9	0.9	14.23
2B	control	6.42	7.92	2231	10950	178	0.9	1.27	12.85	0.9	25.85
3A	control	5.95	13.72	160	6067	1178	0.9	4.48	132.8	1.62	10.38
4A	control	4.67	3.11	213	2568	396	0.9	57.15	11.48	0.9	11.32
5A	control	5.62	4.27	148	5630	1178	0.9	7.53	74.46	0.9	9.02
6B	control	5.48	4.61	224	1871	330	1.28	44.27	42.8	3.01	11.02
1B	girdle	6.89	8.75	352	11550	360	0.9	0.9	0.9	0.9	19.99
2A	girdle	5.53	4.61	266	5395	643	0.9	3.47	32.5	1.2	18.93
3B	girdle	6.25	19.85	505	6308	1483	0.9	3.79	103.5	2.22	11.21
4B	girdle	5.8	4.77	428	4619	739	1.22	25.54	23.19	1.98	10.21
5B	girdle	6.32	6.95	420	7046	1421	0.9	2.25	59.5	1.49	11.78
6A	girdle	5.47	5.1	195	2722	495	0.9	9.23	137.7	2.52	9.78

### 8.2 ALTITUDE AND SLOPE

Altitude was estimated using a barometer calibrated to a known elevation. Slope was estimated from the upslope edge to the downslope edge of plots using a clinometer.

Plot	Alt. (ft)	Alt. (m)	Slope (%)		
			from corner	from center	from corner
1A	700	213	24	25	26
1B	650	198	18	21	21
2A	630	192	2	2	2
2B	630	192	1	1	1
3A	650	198	21	18	18
3B	600	183	18	20	13
4A	660	201	2	3	4
4B	660	201	6	3	6
5A	760	232	19	22	25
5B	760	232	21	22	26
6A	640	195	8	9	12
6B	650	198	12	9	5

### 8.3 GPS DATA

GPS points were taken using a Garmin GPS. All points in are in UTM Carribb 27 datum. At least two readings were made in every plot, generally at the plot center (CEN) and at the northeast corner post (NE).

Location	Easting	Northing
1A-CEN	0741182	2028048
1A-NE	0741190	2028055
1B-C	0741179	2028006
1B-CEN	0741183	2028008
1B-NE	0741209	2028021
2A	0741049	2027864
2A-	0741062	2027883
2B	0741065	2027833
2B-	0741073	2027842
3A-CEN	0740897	2028845
3A-NE	0740887	2028860
3B-CEN	0740912	2028885
3B-NE	0740877	2028874
4A-CEN	0743745	2027307
4A-NE	0743776	2027317
4B-C	0743791	2027262
4B-CEN	0743795	2027261
4B-NE	0743793	2027283
5A	0741378	2028426
5A-NE	0743797	2027293
5ANE	0741388	2028435
5B-CEN	0741362	2028459
5BNE	0741378	2028472
6A-CEN	0740168	2028785
6A-NE	0740181	2028798
6B-CEN	0740173	2028847
6B-NE	0740163	2028849

### 8.4 CANOPY COVER DATA

Canopy cover was estimated using a spherical densiometer. Readings were taken prior to girdle treatment (June\_03) and periodically thereafter for the duration of the study. Readings were taken at five fixed points within every plot. Fixed points were located near the center of plot quadrants (Quad 1, 2, 3, 4) and at the whole plot center (CEN). At each fixed point, readings were taken in each of the four cardinal directions (Azimuth: N, E, S, W). Numbers represent percent canopy openness.

Plot	treat	Quad	Az	June_03 (% open)	Oct_03 (% open)	May_04 (% open)	Dec_04 (% open)
1A	control	1	N	10.4	6.24	6.24	9.36
1A	control	1	E	8.32	8.32	5.2	8.32

1A control	1	S	12.48	6.24	6.24	5.2
1A control	1	W	13.52	6.24	6.24	8.32
1A control	2	N	8.32	7.28	5.2	3.12
1A control	2	E	3.12	3.12	6.24	4.16
1A control	2	S	4.16	3.12	4.16	6.24
1A control	2	W	7.28	5.2	5.2	9.36
1A control	3	N	4.16	5.2	4.16	5.2
1A control	3	E	2.08	2.08	2.08	4.16
1A control	3	S	7.28	3.12	5.2	4.16
1A control	3	W	13.52	14.56	6.24	8.32
1A control	4	N	8.32	6.24	6.24	6.24
1A control	4	S	12.48	5.2	5.2	4.16
1A control	4	E	7.28	8.32	8.32	5.2
1A control	4	W	14.56	10.4	15.6	10.4
1A control	Cen	N	7.28	7.28	8.32	6.24
1A control	Cen	E	3.12	7.28	8.32	3.12
1A control	Cen	S	4.16	7.28	8.32	7.28
1A control	Cen	W	11.44	4.16	8.32	8.32
1B girdle	1	N	11.44	8.32	7.28	15.6
1B girdle	1	E	8.32	5.2	7.28	6.24
1B girdle	1	S	9.36	22.88	13.52	17.68
1B girdle	1	W	9.36	19.76	15.6	28.08
1B girdle	2	N	8.32	20.8	12.48	16.64
1B girdle	2	E	8.32	10.4	3.12	6.24
1B girdle	2	S	9.36	13.52	13.52	10.4
1B girdle	2	W	13.52	20.8	18.72	13.52
1B girdle	3	N	9.36	14.56	9.36	8.32
1B girdle	3	E	10.4	7.28	6.24	3.12
1B girdle	3	S	12.48	24.96	15.6	7.28
1B girdle	3	W	18.72	21.84	16.64	5.2
1B girdle	4	N	16.64	14.56	6.24	9.36
1B girdle	4	E	11.44	12.48	15.6	12.48
1B girdle	4	S	13.52	21.84	23.92	15.6
1B girdle	4	W	14.56	17.68	20.8	20.8
1B girdle	Cen	N	5.2	21.84	13.52	13.52
1B girdle	Cen	E	6.24	12.48	8.32	6.24
1B girdle	Cen	S	6.24	18.72	18.72	13.52
1B girdle	Cen	W	9.36	21.84	12.48	13.52
2A girdle	1	N	8.32	6.24	13.52	6.24
2A girdle	1	E	7.28	5.2	12.48	4.16
2A girdle	1	S	5.2	20.8	28.08	19.76
2A girdle	1	W	3.12	15.6	18.72	11.44
2A girdle	2	N	8.32	20.8	31.2	26
2A girdle	2	E	9.36	9.36	16.64	9.36

2A	girdle	2	S	7.28	23.92	21.84	12.48
2A	girdle	2	W	10.4	29.12	41.6	31.2
2A	girdle	3	N	3.12	22.88	22.88	18.72
2A	girdle	3	E	6.24	18.72	15.6	10.4
2A	girdle	3	S	9.36	23.92	17.68	10.4
2A	girdle	3	W	9.36	19.76	18.72	7.28
2A	girdle	4	N	10.4	8.32	17.68	5.2
2A	girdle	4	E	8.32	16.64	12.48	14.56
2A	girdle	4	S	8.32	23.92	29.12	13.52
2A	girdle	4	W	10.4	8.32	27.04	12.48
2A	girdle	Cen	N	10.4	18.72	16.64	19.76
2A	girdle	Cen	E	2.08	14.56	21.84	10.4
2A	girdle	Cen	S	3.12	21.84	34.32	26
2A	girdle	Cen	W	11.44	20.8	17.68	14.56
2B	control	1	N	5.2	8.32	12.48	3.12
2B	control	1	E	10.4	9.36	8.32	5.2
2B	control	1	S	9.36	6.24	9.36	5.2
2B	control	1	W	11.44	5.2	9.36	6.24
2B	control	2	N	3.12	2.08	7.28	4.16
2B	control	2	E	14.56	10.4	7.28	5.2
2B	control	2	S	3.12	9.36	5.2	3.12
2B	control	2	W	4.16	5.2	7.28	4.16
2B	control	3	N	10.4	6.24	11.44	5.2
2B	control	3	E	8.32	8.32	8.32	3.12
2B	control	3	S	6.24	15.6	9.36	5.2
2B	control	3	W	11.44	6.24	6.24	5.2
2B	control	4	N	11.44	10.4	15.6	10.4
2B	control	4	E	5.2	6.24	7.28	4.16
2B	control	4	S	4.16	9.36	8.32	6.24
2B	control	4	W	8.32	7.28	6.24	8.32
2B	control	Cen	N	6.24	11.44	8.32	7.28
2B	control	Cen	E	5.2	4.16	4.16	5.2
2B	control	Cen	S	7.28	5.2	4.16	4.16
2B	control	Cen	W	15.6	10.4	8.32	8.32
3A	control	1	N	4.16	4.16	14.56	16.64
3A	control	1	E	2.08	2.08	13.52	7.28
3A	control	1	S	6.24	6.24	8.32	6.24
3A	control	1	W	3.12	3.12	8.32	17.68
3A	control	2	N	5.2	5.2	8.32	16.64
3A	control	2	E	6.24	6.24	8.32	3.12
3A	control	2	S	1.04	1.04	5.2	4.16
3A	control	2	W	2.08	2.08	9.36	10.4
3A	control	3	N	4.16	4.16	10.4	26
3A	control	3	E	5.2	5.2	6.24	2.08

3A control	3	S	2.08	2.08	5.2	4.16
3A control	3	W	9.36	9.36	4.16	16.64
3A control	4	N	6.24	6.24	17.68	15.6
3A control	4	E	3.12	3.12	4.16	2.08
3A control	4	S	4.16	4.16	3.12	12.48
3A control	4	W	6.24	6.24	8.32	14.56
3A control	Cen	N	3.12	3.12	9.36	16.64
3A control	Cen	E	5.2	5.2	4.16	4.16
3A control	Cen	S	3.12	3.12	4.16	3.12
3A control	Cen	W	3.12	3.12	7.28	13.52
3B girdle	1	N	6.24	20.8	12.48	10.4
3B girdle	1	E	5.2	10.4	4.16	6.24
3B girdle	1	S	4.16	14.56	7.28	8.32
3B girdle	1	W	6.24	23.92	18.72	17.68
3B girdle	2	N	8.32	23.92	14.56	18.72
3B girdle	2	E	8.32	6.24	4.16	5.2
3B girdle	2	S	4.16	7.28	3.12	5.2
3B girdle	2	W	5.2	20.8	26	15.6
3B girdle	3	N	3.12	23.92	26	21.84
3B girdle	3	E	6.24	13.52	8.32	10.4
3B girdle	3	S	5.2	6.24	5.2	9.36
3B girdle	3	W	3.12	20.8	18.72	18.72
3B girdle	4	N	9.36	19.76	23.92	13.52
3B girdle	4	E	10.4	21.84	14.56	7.28
3B girdle	4	S	6.24	20.8	11.44	12.48
3B girdle	4	W	8.32	16.64	19.76	12.48
3B girdle	Cen	N	2.08	26	24.96	16.64
3B girdle	Cen	E	2.08	11.44	11.44	11.44
3B girdle	Cen	S	0	11.44	8.32	8.32
3B girdle	Cen	W	1.04	21.84	23.92	14.56
4A control	1	N	10.4	6.24	12.48	5.2
4A control	1	E	18.72	6.24	13.52	6.24
4A control	1	S	6.24	4.16	9.36	2.08
4A control	1	W	10.4	5.2	16.64	5.2
4A control	2	N	6.24	6.24	15.6	7.28
4A control	2	E	8.32	4.16	8.32	7.28
4A control	2	S	10.4	7.28	10.4	9.36
4A control	2	W	10.4	5.2	9.36	4.16
4A control	3	N	10.4	8.32	12.48	4.16
4A control	3	E	15.6	11.44	11.44	6.24
4A control	3	S	5.2	7.28	9.36	6.24
4A control	3	W	9.36	9.36	11.44	5.2
4A control	4	N	11.44	9.36	14.56	11.44
4A control	4	E	3.12	5.2	9.36	8.32



4A control	4	S	9.36	10.4	5.2	9.36
4A control	4	W	8.32	7.28	5.2	3.12
4A control	Cen	N	12.48	6.24	6.24	4.16
4A control	Cen	E	5.2	5.2	6.24	3.12
4A control	Cen	S	3.12	4.16	9.36	6.24
4A control	Cen	W	7.28	4.16	5.2	6.24
4B girdle	1	N	8.32	14.56	15.6	13.52
4B girdle	1	E	9.36	13.52	9.36	8.32
4B girdle	1	S	9.36	11.44	10.4	16.64
4B girdle	1	W	7.28	24.96	28.08	24.96
4B girdle	2	N	10.4	22.88	20.8	17.68
4B girdle	2	E	6.24	7.28	15.6	11.44
4B girdle	2	S	8.32	7.28	9.36	8.32
4B girdle	2	W	12.48	17.68	23.92	13.52
4B girdle	3	N	6.24	21.84	21.84	11.44
4B girdle	3	E	5.2	14.56	10.4	15.6
4B girdle	3	S	5.2	11.44	7.28	12.48
4B girdle	3	W	12.48	26	21.84	18.72
4B girdle	4	N	12.48	15.6	17.68	11.44
4B girdle	4	E	5.2	10.4	14.56	12.48
4B girdle	4	S	8.32	31.2	30.16	19.76
4B girdle	4	W	8.32	20.8	13.52	15.6
4B girdle	Cen	N	7.28	13.52	17.68	23.92
4B girdle	Cen	E	7.28	17.68	19.76	15.6
4B girdle	Cen	S	9.36	15.6	22.88	11.44
4B girdle	Cen	W	9.36	28.08	18.72	17.68
5A control	1	N	11.44	1.04	6.24	6.24
5A control	1	E	8.32	2.08	6.24	6.24
5A control	1	S	7.28	3.12	7.28	6.24
5A control	1	W	5.2	1.04	4.16	5.2
5A control	2	N	8.32	8.32	5.2	6.24
5A control	2	E	10.4	4.16	10.4	9.36
5A control	2	S	8.32	3.12	8.32	6.24
5A control	2	W	6.24	3.12	5.2	4.16
5A control	3	N	7.28	4.16	8.32	4.16
5A control	3	E	15.6	16.64	18.72	9.36
5A control	3	S	13.52	12.48	11.44	7.28
5A control	3	W	2.08	5.2	6.24	2.08
5A control	4	N	8.32	8.32	5.2	7.28
5A control	4	E	12.48	7.28	8.32	9.36
5A control	4	S	6.24	11.44	4.16	6.24
5A control	4	W	4.16	0	3.12	3.12
5A control	Cen	N	6.24	4.16	6.24	4.16
5A control	Cen	E	5.2	4.16	7.28	3.12

5A	control	Cen	S	11.44	7.28	5.2	6.24
5A	control	Cen	W	3.12	3.12	3.12	3.12
5B	girdle	1	N	9.36	6.24	6.24	4.16
5B	girdle	1	E	12.48	15.6	16.64	16.64
5B	girdle	1	S	9.36	13.52	18.72	11.44
5B	girdle	1	W	8.32	8.32	15.6	4.16
5B	girdle	2	N	7.28	24.96	20.8	18.72
5B	girdle	2	E	8.32	19.76	27.04	19.76
5B	girdle	2	S	14.56	23.92	18.72	10.4
5B	girdle	2	W	7.28	20.8	17.68	14.56
5B	girdle	3	N	9.36	7.28	12.48	9.36
5B	girdle	3	E	12.48	29.12	33.28	19.76
5B	girdle	3	S	11.44	7.28	14.56	7.28
5B	girdle	3	W	5.2	3.12	5.2	4.16
5B	girdle	4	N	9.36	7.28	7.28	5.2
5B	girdle	4	E	15.6	28.08	33.28	21.84
5B	girdle	4	S	12.48	13.52	17.68	18.72
5B	girdle	4	W	6.24	1.04	2.08	3.12
5B	girdle	Cen	N	7.28	15.6	13.52	3.12
5B	girdle	Cen	E	18.72	31.2	39.52	24.96
5B	girdle	Cen	S	8.32	19.76	19.76	15.6
5B	girdle	Cen	W	11.44	14.56	12.48	5.2
6A	girdle	1	N	8.32	9.36	4.16	7.28
6A	girdle	1	E	8.32	14.56	10.4	9.36
6A	girdle	1	S	7.28	19.76	15.6	19.76
6A	girdle	1	W	15.6	34.32	21.84	21.84
6A	girdle	2	N	6.24	27.04	19.76	18.72
6A	girdle	2	E	6.24	15.6	6.24	5.2
6A	girdle	2	S	6.24	9.36	7.28	4.16
6A	girdle	2	W	14.56	28.08	14.56	26
6A	girdle	3	N	9.36	23.92	17.68	14.56
6A	girdle	3	E	9.36	21.84	11.44	14.56
6A	girdle	3	S	9.36	21.84	7.28	13.52
6A	girdle	3	W	11.44	12.48	7.28	5.2
6A	girdle	4	N	8.32	14.56	9.36	12.48
6A	girdle	4	E	5.2	14.56	20.8	18.72
6A	girdle	4	S	7.28	27.04	23.92	17.68
6A	girdle	4	W	8.32	18.72	9.36	7.28
6A	girdle	Cen	N	8.32	23.92	22.88	14.56
6A	girdle	Cen	E	8.32	15.6	23.92	15.6
6A	girdle	Cen	S	4.16	17.68	16.64	16.64
6A	girdle	Cen	W	9.36	22.88	27.04	21.84
6B	control	1	N	9.36	9.36	6.24	5.2
6B	control	1	E	6.24	6.24	7.28	6.24

6B control	1	S	10.4	10.4	5.2	6.24
6B control	1	W	10.4	10.4	6.24	6.24
6B control	2	N	10.4	10.4	8.32	7.28
6B control	2	E	8.32	8.32	4.16	2.08
6B control	2	S	7.28	7.28	7.28	5.2
6B control	2	W	12.48	12.48	7.28	6.24
6B control	3	N	4.16	4.16	4.16	4.16
6B control	3	E	5.2	5.2	6.24	7.28
6B control	3	S	6.24	6.24	6.24	3.12
6B control	3	W	7.28	7.28	7.28	6.24
6B control	4	N	10.4	10.4	8.32	6.24
6B control	4	E	11.44	11.44	5.2	5.2
6B control	4	S	12.48	12.48	5.2	9.36
6B control	4	W	10.4	10.4	5.2	5.2
6B control	Cen	N	9.36	9.36	5.2	6.24
6B control	Cen	E	10.4	10.4	10.4	10.4
6B control	Cen	S	9.36	9.36	5.2	10.4
6B control	Cen	W	12.48	12.48	5.2	5.2

## 8.5 GROUND COVER DATA.

The percentage cover of vegetation <2 m tall was estimated using the pole-point transect method, in which a 2 m long pole was placed vertically every 5 cm along a permanent 20 m transect and all live vegetation touching the pole was recorded in the following cover classes: fern, grass, shrub, tree, vine. The substrate type, either leaf litter or soil, was recorded if no live vegetation touched the pole. Percentage cover was calculated by dividing the number of points counted for each cover class by the total number of points along the transect (200). ‘Diff’ is the change in proportional cover from June 2003 to December 2004 (Dec\_04 - June\_03).

Plot	treatment	cover type	cover proportion				Diff
			June 03	Dec 03	May 04	Dec 04	
1A	control	Fern	0.03	0.045	0.055	0.005	-0.025
1B	girdle	Fern	0.035	0.025	0.05	0.08	0.045
2A	girdle	Fern	0.405	0.48	0.68	0.625	0.22
2B	control	Fern	0.29	0.29	0.205	0.025	-0.265
3A	control	Fern	0.08	0.05	0.165	0.13	0.05
3B	girdle	Fern	0.155	0.29	0.435	0.38	0.225
4A	control	Fern	0.01	0.01	0	0.01	0
4B	girdle	Fern	0.07	0.14	0.155	0	-0.07
5A	control	Fern	0.005	0.12	0.07	0.13	0.125
5B	girdle	Fern	0.13	0.25	0.425	0.42	0.29
6A	girdle	Fern	0.25	0.25	0.285	0.225	-0.025
6B	control	Fern	0.44	0.38	0.38	0.29	-0.15
1A	control	Grass	0	0	0	0	0
1B	girdle	Grass	0.04	0.12	0.25	0.355	0.315
2A	girdle	Grass	0	0	0	0	0
2B	control	Grass	0	0	0	0	0

3A	control	Grass	0.06	0.045	0.09	0.105	0.045
3B	girdle	Grass	0.06	0.15	0.51	0.25	0.19
4A	control	Grass	0.015	0.01	0.02	0.015	0
4B	girdle	Grass	0	0.01	0.03	0.04	0.04
5A	control	Grass	0.035	0.06	0.055	0.06	0.025
5B	girdle	Grass	0	0.03	0.325	0.19	0.19
6A	girdle	Grass	0.025	0.035	0.17	0.105	0.08
6B	control	Grass	0.05	0.065	0.095	0.085	0.035
1A	control	Litter	0.745	0.77	0.66	0.855	0.11
1B	girdle	Litter	0.64	0.68	0.105	0.19	-0.45
2A	girdle	Litter	0.5	0.45	0.225	0.235	-0.265
2B	control	Litter	0.495	0.57	0.525	0.545	0.05
3A	control	Litter	0.485	0.53	0.445	0.505	0.02
3B	girdle	Litter	0.525	0.41	0.155	0.185	-0.34
4A	control	Litter	0.52	0.445	0.475	0.525	0.005
4B	girdle	Litter	0.26	0.245	0.11	0.07	-0.19
5A	control	Litter	0.48	0.41	0.355	0.51	0.03
5B	girdle	Litter	0.485	0.4	0.175	0.215	-0.27
6A	girdle	Litter	0.505	0.355	0.235	0.19	-0.315
6B	control	Litter	0.275	0.325	0.285	0.395	0.12
1A	control	Log	0.005	0	0.005	0	-0.005
1B	girdle	Log	0	0	0	0	0
2A	girdle	Log	0.045	0	0	0.005	-0.04
2B	control	Log	0.02	0	0	0	-0.02
3A	control	Log	0.025	0	0	0	-0.025
3B	girdle	Log	0.025	0	0	0	-0.025
4A	control	Log	0	0	0	0	0
4B	girdle	Log	0	0	0	0	0
5A	control	Log	0	0	0	0	0
5B	girdle	Log	0.02	0	0.02	0	-0.02
6A	girdle	Log	0	0	0	0	0
6B	control	Log	0.015	0.025	0.01	0	-0.015
1A	control	Rock	0.06	0.025	0.055	0.035	-0.025
1B	girdle	Rock	0.065	0	0.06	0.01	-0.055
2A	girdle	Rock	0	0	0	0	0
2B	control	Rock	0	0	0	0	0
3A	control	Rock	0.07	0.035	0.055	0.04	-0.03
3B	girdle	Rock	0	0	0	0	0
4A	control	Rock	0	0	0	0	0
4B	girdle	Rock	0	0	0	0.225	0.225
5A	control	Rock	0	0	0	0	0
5B	girdle	Rock	0	0	0	0	0
6A	girdle	Rock	0	0	0	0	0
6B	control	Rock	0	0	0	0	0
1A	control	Shrub	0.005	0.015	0.03	0.01	0.005
1B	girdle	Shrub	0.015	0.005	0.015	0.16	0.145
2A	girdle	Shrub	0.005	0.02	0.025	0.03	0.025
2B	control	Shrub	0.07	0.065	0.105	0.085	0.015
3A	control	Shrub	0.03	0.035	0.06	0.035	0.005
3B	girdle	Shrub	0.015	0.015	0.11	0.055	0.04
4A	control	Shrub	0.325	0.265	0.28	0.265	-0.06

4B	girdle	Shrub	0.4	0.475	0.61	0.7	0.3
5A	control	Shrub	0.005	0.005	0.035	0	-0.005
5B	girdle	Shrub	0	0	0.005	0.145	0.145
6A	girdle	Shrub	0.04	0.12	0.035	0.415	0.375
6B	control	Shrub	0.015	0.065	0.03	0.045	0.03
1A	control	Soil	0.015	0.025	0.06	0.005	-0.01
1B	girdle	Soil	0.02	0.015	0.045	0.015	-0.005
2A	girdle	Soil	0	0	0.03	0	0
2B	control	Soil	0.005	0	0.015	0	-0.005
3A	control	Soil	0.01	0.035	0.005	0.005	-0.005
3B	girdle	Soil	0.02	0.035	0.005	0	-0.02
4A	control	Soil	0	0.08	0.02	0.04	0.04
4B	girdle	Soil	0	0	0.015	0.015	0.015
5A	control	Soil	0.05	0.055	0.145	0.03	-0.02
5B	girdle	Soil	0.125	0.04	0.025	0.015	-0.11
6A	girdle	Soil	0.005	0.12	0.075	0.045	0.04
6B	control	Soil	0.005	0.035	0.03	0.05	0.045
1A	control	Tree	0.14	0.14	0.14	0.05	-0.09
1B	girdle	Tree	0.18	0.14	0.22	0.265	0.085
2A	girdle	Tree	0.05	0.09	0.105	0.125	0.075
2B	control	Tree	0.2	0.115	0.22	0.145	-0.055
3A	control	Tree	0.31	0.28	0.245	0.18	-0.13
3B	girdle	Tree	0.275	0.2	0.26	0.405	0.13
4A	control	Tree	0.21	0.21	0.22	0.16	-0.05
4B	girdle	Tree	0.345	0.325	0.37	0.335	-0.01
5A	control	Tree	0.45	0.375	0.485	0.27	-0.18
5B	girdle	Tree	0.31	0.32	0.39	0.355	0.045
6A	girdle	Tree	0.305	0.22	0.245	0.205	-0.1
6B	control	Tree	0.335	0.285	0.36	0.24	-0.095
1A	control	Vine	0	0	0	0.005	0.005
1B	girdle	Vine	0.005	0.015	0.025	0.095	0.09
2A	girdle	Vine	0	0	0.02	0	0
2B	control	Vine	0.005	0.005	0	0.01	0.005
3A	control	Vine	0	0.005	0.01	0	0
3B	girdle	Vine	0.01	0.005	0	0.075	0.065
4A	control	Vine	0	0.015	0.025	0.015	0.015
4B	girdle	Vine	0	0.01	0.025	0.015	0.015
5A	control	Vine	0	0	0.02	0	0
5B	girdle	Vine	0	0	0	0.07	0.07
6A	girdle	Vine	0	0.005	0	0.01	0.01
6B	control	Vine	0.005	0	0	0	-0.005

## 8.6 ADVANCE REGENERATION SEEDLINGS

Tag numbers incorporate plot number, species abbreviations, and seedling number. 1A, 2B, 3A, 4A, 5A, and 6B are control plots, 1B, 2A, 3B, 4B, 5B, and 6A are gap plots. 'Ht' for dicots is height from ground to tip of apical meristem, for palms, it is the height from the ground to the point where the first leaf separates from the stem; 'Leaf' is the length of the plant from ground level to tip of longest leaf; 'BD' is basal diameter of stem base above soil or litter layer. Leaf length was measured only for *Roystonea*. Empty spaces represent dead or missing seedlings.

### *Cupania americana*

Tag #	July 2003		December 2003		May 2004		December 2004	
	Ht (cm)	BD (mm)	Ht (cm)	BD (mm)	Ht (cm)	BD (mm)	Ht (cm)	BD (mm)
1A-Cupame-1	23.5	4.1	22.5	4.5	23.0	5.7	23	6
1A-Cupame-2	16.0	2.5	18.0	3.1	15.0	3.8	15	2.1
1A-Cupame-3	18.5	2.2	18.5	2.7	19.0	2.4	20	2.7
1A-Cupame-4	16.0	2.5	17.0	2.8	17.0	2.9	21	3.1
1A-Cupame-5	18.0	2.7	17.5	3.0	18.0	3.0	18.5	5.2
1A-Cupame-6	22.0	1.9	21.5	2.0	21.0	2.4	22.5	2
1A-Cupame-7	20.0	3.8	20.0	3.4	.	.	.	.
1A-Cupame-8	23.0	2.2	22.5	2.3	14.0	2.3	25	3.8
1A-Cupame-9	15.5	2.0	17.0	2.7	16.0	2.4	17	3
1A-Cupame-10	26.0	3.7	27.0	3.0	24.0	3.1	27	3.9
1A-Cupame-11	15.0	3.3	17.5	3.9	17.0	4.8	17	5
1A-Cupame-12	23.5	2.9	23.0	2.9	23.5	3.1	25.5	3.1
1A-Cupame-13	17.0	3.5	19.5	2.8	19.0	2.5	19	2.8
1A-Cupame-14	12.5	2.2	12.5	2.3	11.5	2.5	13.5	2.4
1A-Cupame-15	19.0	3.6	20.0	2.5	19.0	2.7	27	3.3
1A-Cupame-16	15.0	2.2	14.0	2.1	14.5	2.3	13.5	2.5
1B-Cupame-1	20.0	3.0	21.0	2.5	33.5	4.3	49	6.8
1B-Cupame-2	16.0	3.7	16.5	4.5	20.0	4.1	25	5.9
1B-Cupame-3	16.0	2.9	17.0	2.7	19.0	3.4	37.5	5.6
1B-Cupame-4	19.0	3.2	21.0	4.2	21.0	3.4	27	3.8
1B-Cupame-5	23.0	4.2	21.0	3.3	22.0	3.7	23	3.7
1B-Cupame-6	19.0	3.4	19.0	3.5	33.0	4.7	59	8.1
1B-Cupame-7	25.5	2.8	24.5	3.0	26.5	4.2	29.5	3.7
1B-Cupame-8	14.0	2.5	14.5	2.8	22.0	4.5	36.5	7.4
1B-Cupame-9	32.0	4.5	33.5	1.5	38.0	4.3	43.5	5.4
1B-Cupame-10	15.0	3.0	14.0	2.4	20.0	3.4	29	5.5
1B-Cupame-11	23.0	3.0	24.0	3.6	24.0	2.9	26.5	3.5
1B-Cupame-12	35.5	3.7	.	.	.	.	.	.
1B-Cupame-13	26.5	3.9	28.0	4.2	28.0	4.4	28	4
1B-Cupame-14	21.5	3.8	26.5	4.0	29.0	5.3	21.5	2.9
1B-Cupame-15	17.0	2.5	19.5	3.0	21.0	3.8	39.5	6.8
1B-Cupame-16	15.0	2.7	15.5	2.8	18.0	2.9	22.5	4.2
2A-Cupame-1	20.0	3.5	20.0	2.9	21.0	3.2	25	2.8
2A-Cupame-2	19.0	2.9	18.0	3.4	23.5	3.0	.	.
2A-Cupame-3	16.0	1.6	17.0	2.4	22.5	2.7	35	3.9

2A-Cupame-4	17.0	3.3	18.5	3.1	21.0	3.4	21	3.4
2A-Cupame-5	38.0	8.9	39.5	20.3	40.0	16.1	43.5	17.2
2A-Cupame-6	18.0	5.2		.	.	.	.	.
2A-Cupame-7	13.5	2.1	14.0	3.0	16.0	2.7	15.5	2.9
2A-Cupame-8	19.0	2.4		.	.	.	.	.
2A-Cupame-9	18.5	3.1		.	5.5	3.0	7	3.7
2A-Cupame-10	9.5	4.8	15.5	4.7	18.5	4.8	23.5	4.8
2A-Cupame-11	15.5	3.0	15.5	4.0	15.0	3.8	.	.
2A-Cupame-12	17.5	2.0	23.0	2.0	36.0	4.8	42.5	6.7
2A-Cupame-13	10.5	2.8	10.0	2.0	13.5	2.8	16	3.7
2A-Cupame-14	13.0	3.0	13.0	2.8	13.0	3.0	14.5	3.7
2A-Cupame-15	10.0	2.2		.	.	.	.	.
2A-Cupame-16	12.5	2.5	13.5	3.1	14.5	3.0	.	.
2B-Cupame-1	11.0	4.0		.	.	.	.	.
2B-Cupame-2	15.0	3.3	14.0	2.9	15.5	3.8	16	3.8
2B-Cupame-3	24.0	3.8		.	19.5	3.2	24	3.1
2B-Cupame-4	21.0	2.9	23.0	2.9	24.0	4.4	24	3.6
2B-Cupame-5	21.5	3.8	21.0	3.8	21.5	3.4	22	3.7
2B-Cupame-6	18.0	3.0	15.5	3.0	17.5	3.7	18.5	4.1
2B-Cupame-7	15.0	5.8	15.0	3.7	16.0	4.1	16	4.5
2B-Cupame-8	18.0	3.2	15.0	3.9	7.5	3.1	17	3.4
2B-Cupame-9	26.0	3.5	26.0	3.1	27.5	2.6	28.5	3.5
2B-Cupame-10	15.0	6.1	16.5	4.9	18.0	4.7	17.5	4.7
2B-Cupame-11	22.0	2.3		.	.	.	.	.
2B-Cupame-12	17.0	2.6	17.0	2.8	16.0	2.0	16.5	2.8
2B-Cupame-13	16.5	2.4	16.0	2.4	17.0	2.3	17.5	4.2
2B-Cupame-14	10.0	1.4	10.0	1.3	11.5	1.3	13	3
2B-Cupame-15	33.0	5.4	30.5	6.6	30.5	4.7	33	5.3
2B-Cupame-16	13.0	5.4	15.0	4.7	15.5	4.3	18	4.8
3A-Cupame-1	11.0	2.0	13.0	2.0	12.0	2.3	14	2.3
3A-Cupame-2	17.0	2.9	18.0	2.9	21.5	2.7	21	3
3A-Cupame-3	17.0	2.2	19.5	2.1	20.5	2.6	23	4.3
3A-Cupame-4	15.0	3.2	15.0	2.5	15.5	2.5	16.5	2.9
3A-Cupame-5	20.0	2.6	21.0	2.5	.	.	.	.
3A-Cupame-6	18.0	3.5	16.0	2.9	18.5	3.4	20.5	3.6
3A-Cupame-7	12.5	2.5	12.5	3.0	13.0	3.3	11	3.2
3A-Cupame-8	25.5	4.8	24.5	3.7	26.0	3.4	.	.
3A-Cupame-9	21.0	3.8	24.5	4.3	27.5	4.2	.	.
3A-Cupame-10	12.0	1.9	13.5	3.3	13.0	1.6	.	.
3A-Cupame-11	11.5	2.2	12.0	2.4	11.5	2.2	.	.
3A-Cupame-12	16.0	3.1	16.0	2.6	17.5	2.5	17.5	3.5
3A-Cupame-13	28.0	4.9	29.5	4.4	30.0	4.1	.	.
3A-Cupame-14	24.0	3.5	23.5	3.5	24.5	3.0	24.5	3.4
3A-Cupame-15	13.0	2.4	14.5	2.2	16.0	2.1	15.5	2.2
3A-Cupame-16	15.0	3.0	17.5	2.8	18.0	3.0	19	4.5
3A-Cupame-17	15.0	2.0	16.0	2.3	17.0	2.0	17	3
3A-Cupame-18	13.0	1.8	13.5	2.6	15.5	2.5	15	2.7
3A-Cupame-19	11.5	2.9	12.5	2.4	14.0	2.1	.	.
3A-Cupame-20	12.5	1.7	13.0	1.7	14.0	1.6	.	.

3B-Cupame-1	23.5	4.7	25.5	4.2	31.5	4.6	29	4.5
3B-Cupame-2	24.0	3.3	26.5	3.8	35.0	5.7	.	.
3B-Cupame-3	16.0	2.5	.	.	.	.	.	.
3B-Cupame-4	24.5	3.0	24.0	2.4	27.5	3.0	37.5	5
3B-Cupame-5	13.0	2.3	15.5	2.2	18.0	2.9	21	3.5
3B-Cupame-6	30.0	4.6	31.0	4.9	32.0	3.5	37	4
3B-Cupame-7	17.0	2.9	17.0	2.7	23.0	2.8	27	3.3
3B-Cupame-8	11.5	2.5	13.0	2.5	20.5	3.3	32	6.5
3B-Cupame-9	16.5	2.5	15.0	2.7	16.0	2.5	.	.
3B-Cupame-10	14.0	3.0	15.5	3.5	21.0	3.3	35	6.3
3B-Cupame-11	15.5	3.2	12.5	2.3	12.5	1.9	11	2.1
3B-Cupame-12	13.0	2.5	.	.	.	.	.	.
3B-Cupame-13	13.0	2.9	16.0	3.2	23.5	3.2	.	.
3B-Cupame-14	11.0	2.5	.	.	.	.	.	.
3B-Cupame-15	15.5	2.6	.	.	.	.	.	.
3B-Cupame-16	14.5	2.3	17.5	2.5	26.5	4.1	.	.
3B-Cupame-17	13.5	2.5	.	.	.	.	.	.
3B-Cupame-18	25.0	3.9	21.0	4.2	26.0	5.2	34.5	6.1
3B-Cupame-19	14.5	2.0	16.0	2.5	19.5	2.3	.	.
3B-Cupame-20	36.0	4.5	35.5	5.8	37.0	5.1	33	5.1
4A-Cupame-1	11.5	3.0	11.5	3.4	12.0	2.8	12.5	3
4A-Cupame-2	19.5	3.7	19.0	3.6	20.5	4.0	19.5	4.2
4A-Cupame-3	12.5	2.4	9.0	2.3	10.0	2.6	10	3.1
4A-Cupame-4	18.5	3.2	16.5	2.7	17.5	2.8	19	2.9
4A-Cupame-5	9.5	2.1	9.5	2.1	10.0	2.3	10.5	2.6
4A-Cupame-6	11.5	2.2	11.5	1.9	.	.	.	.
4A-Cupame-7	11.5	3.5	9.0	3.6	12.0	2.8	11	3.4
4A-Cupame-8	13.0	2.2	13.0	2.8	13.0	2.1	12.5	2.2
4A-Cupame-9	12.5	4.2	12.0	3.9	13.5	4.0	15	4.3
4A-Cupame-10	18.0	3.9	16.5	3.3	17.0	3.7	17.5	4.6
4A-Cupame-11	12.5	1.8	12.5	1.9	12.5	2.4	11.5	1.9
4A-Cupame-12	14.0	3.3	13.5	3.2	14.0	3.7	12.5	3.4
4A-Cupame-13	10.0	2.9	10.0	1.5	10.0	1.8	.	.
4A-Cupame-14	13.5	2.4	12.5	2.2	13.0	2.8	13.5	2.5
4A-Cupame-15	13.0	3.5	11.5	3.6	12.0	3.0	10	3.1
4A-Cupame-16	12.0	2.2	13.0	1.8	13.0	2.1	12	2.3
4B-Cupame-1	22.0	3.0	18.0	3.5	18.0	4.3	21.5	3.6
4B-Cupame-2	11.0	2.8	11.0	2.8	12.0	2.7	12.5	3
4B-Cupame-3	8.5	2.4	7.0	2.2	6.5	2.7	8	3
4B-Cupame-4	.	.	.	.	.	.	.	.
4B-Cupame-5	12.5	2.1	10.5	3.0	12.0	2.3	10.5	2.4
4B-Cupame-6	9.5	1.8	7.5	2.8	9.0	3.7	16	3.5
4B-Cupame-7	14.5	3.6	15.5	4.2	20.0	3.9	25.5	7.8
4B-Cupame-8	37.5	7.8	.	.	.	.	.	.
4B-Cupame-9	12.0	4.0	12.0	3.6	12.5	3.7	22.5	5.4
4B-Cupame-10	11.5	2.2	11.5	3.5	12.0	3.1	23.5	4.1
4B-Cupame-11	12.5	2.5	14.0	2.8	13.5	3.0	11	2.8
4B-Cupame-12	17.5	2.7	20.0	3.8	20.5	3.4	24	3.1
4B-Cupame-13	12.0	1.8	13.0	1.6	14.0	2.5	15	2.6



4B-Cupame-14	10.0	2.8	7.0	2.2	8.5	2.9	7	1.9
4B-Cupame-15	8.0	2.5	6.5	3.1	7.0	2.5	16	2.8
4B-Cupame-16	8.0	2.2	7.0	3.0	9.0	2.9	12.5	3.9
5A-Cupame-1	16.0	2.7	15.5	3.1	15.0	2.9	15.5	3.1
5A-Cupame-2	17.0	2.5	18.0	3.2	19.0	2.5	19.5	2.7
5A-Cupame-3	18.5	3.8	19.0	4.5	20.5	3.8	21.5	3.8
5A-Cupame-4	7.0	5.3	7.0	4.1	8.0	4.1	8	4.3
5A-Cupame-5	5.0	3.1	19.5	4.0	21.5	3.0	21.5	3.9
5A-Cupame-6	13.0	1.9	14.0	2.2	14.5	1.6	16	2.1
5A-Cupame-7	13.5	2.0	14.0	2.1	14.5	2.1	16.5	2.1
5A-Cupame-8	13.5	2.7	13.0	2.3	12.5	2.5	13.5	2.8
5A-Cupame-9	8.5	2.8	10.0	3.0	8.0	2.8	9	1.3
5A-Cupame-10	15.0	2.8	15.0	2.7	15.0	2.5	17.5	2.6
5A-Cupame-11	14.0	2.6	13.5	2.5	14.0	2.5	14.5	2.7
5A-Cupame-12	7.5	1.8	8.5	1.8	8.5	2.0	8.5	1.9
5A-Cupame-13	8.5	2.2	8.5	1.8	9.0	1.4	9.9	2
5A-Cupame-14	13.0	3.9	12.0	3.5	13.5	3.1	11.5	3.6
5A-Cupame-15	13.5	2.5	12.0	2.3	13.0	1.9	13	2.3
5A-Cupame-16	13.5	3.7	12.0	3.0	12.5	3.0	12.5	2.6
5B-Cupame-1	14.0	3.8	15.5	3.1	19.0	3.1	20	3.5
5B-Cupame-2	18.5	4.0	19.0	2.9	19.0	2.5	15.5	3
5B-Cupame-3	19.0	4.0	21.0	3.5	20.5	3.4	19	3.8
5B-Cupame-4	13.0	3.0	14.0	2.1	16.5	2.0	16.5	2.5
5B-Cupame-5	10.5	3.6	12.0	3.5	14.5	3.1	15	4.5
5B-Cupame-6	18.5	3.7	20.0	3.9	25.0	4.9	20	4.9
5B-Cupame-7	24.5	4.5	25.5	3.7	26.5	3.5	30	4
5B-Cupame-8	11.0	2.7	11.5	3.2	14.0	3.0	16	3.6
5B-Cupame-9	17.0	4.7	30.0	4.6	43.0	5.6	52	5.8
5B-Cupame-10	11.0	2.0	15.0	2.4	17.0	3.4	17.5	2.5
5B-Cupame-11	16.0	3.9	17.0	4.0	20.5	4.2	22	5
5B-Cupame-12	17.5	3.9	22.0	3.6	27.5	3.5	36	5.6
5B-Cupame-13	13.0	2.2	11.5	2.2	12.5	2.2	14.5	2.6
5B-Cupame-14	15.0	3.5	15.5	3.2	17.5	3.5	17.5	3.3
5B-Cupame-15	10.0	2.5	11.0	2.3	21.5	3.0	34.5	4.6
5B-Cupame-16	16.5	2.8	21.5	2.7	28.0	3.3	41	4.8
6A-Cupme-1	24.0	3.1	25.0	2.5	24.0	2.8	.	.
6A-Cupme-2	15.5	2.6	14.0	2.9	14.5	3.0	23.5	3.6
6A-Cupame-3	15.0	2.5	15.0	1.7	17.0	2.6	21	2.7
6A-Cupme-4	14.5	2.4	12.5	3.0	12.5	3.2	11.5	2.2
6A-Cupme-5	20.0	3.0	21.0	2.5	21.0	2.6	21.5	2.6
6A-Cupme-6	29.5	3.3	27.5	3.3	38.0	4.2	43.5	4.2
6A-Cupme-7	20.5	3.1	19.0	3.1	20.5	3.2	19.5	2.8
6A-Cupme-8	16.5	3.4	17.0	3.0	17.0	3.3	20.5	3.5
6A-Cupame-9	15.5	5.2	15.5	2.3	16.0	2.8	21	2.9
6A-Cupme-10	22.0	3.2	19.0	3.7	19.5	3.2	22	3.7
6A-Cupame-11	18.5	2.7	17.0	2.5	17.0	3.0	21.5	2.9
6A-Cupme-12	18.0	4.6	22.0	4.6	38.0	5.9	53	6.7
6A-Cupme-13	14.5	2.6	15.0	2.8	18.0	2.7	.	.
6A-Cupame-14	17.0	2.9	18.0	3.0	18.0	3.4	26.5	3.8

6A-Cupame-15	13.0	2.5	10.5	2.2	13.0	2.8	17.5	3.8
6A-Cupame-16	14.5	2.5	12.0	3.8	11.5	3.4	15	3.2
6B-Cupame-1	26.0	3.3	26.0	3.0	29.0	3.5	29.5	3.8
6B-Cupame-2	12.5	2.2	11.0	1.9	11.5	2.2	15	1.6
6B-Cupame-3	14.0	4.2	15.0	3.3	16.0	3.0	18	2.7
6B-Cupame-4	20.5	3.3		.	.	.	.	.
6B-Cupame-5	31.0	3.8		.	34.0	4.0	.	.
6B-Cupame-6	28.0	4.4	27.0	3.8	27.0	3.8	28	3.8
6B-Cupame-7	16.5	2.7	16.5	2.5	15.5	2.9	15	3
6B-Cupame-8	19.0	2.8	18.8	2.2	22.5	2.4	22.5	2.1
6B-Cupame-9	22.0	3.5	23.0	3.4	24.5	3.5	26.5	3.7
6B-Cupame-10	16.0	3.5	19.0	2.0	17.0	2.4	18.5	3
6B-Cupame-11	18.0	3.0	19.0	2.9	19.5	3.0	20.5	3.2
6B-Cupame-12	14.0	2.0	15.0	2.7	16.5	2.1	17	2.7
6B-Cupame-13	15.0	2.3	14.0	2.4	16.5	3.1	15	2.7
6B-Cupame-14	14.5	1.1	13.0	2.2	19.0	2.1	19	2
6B-Cupame-15	12.0	2.0	.	.	.	.	.	.
6B-Cupame-16	16.0	2.5	13.0	2.7	12.5	1.9	12.5	1.6

*Guarea guidonia*

Tag #	July 2003		December 2003		May 2004		December 2004	
	Ht (cm)	BD (mm)	Ht (cm)	BD (mm)	Ht (cm)	BD (mm)	Ht (cm)	BD (mm)
1A-Guagui-1	24.0	3.6	24.0	3.8	22.0	3.6	24	4.3
1A-Guagui-2	26.0	5.0	26.5	4.3	26.5	5.0	27	5.3
1A-Guagui-3	16.0	2.2	18.0	2.2	19.0	3.6	22	4
1A-Guagui-4	21.5	3.0	18.5	3.2	20.0	3.6	23	4.3
1A-Guagui-5	16.5	3.3		.	.	.	.	.
1A-Guagui-6	19.5	3.2	19.0	3.0	19.0	3.1	18.5	2.7
1A-Guagui-7	21.0	3.7	21.5	5.0	22.0	3.8	23.5	4.1
1A-Guagui-8	18.0	3.5	16.0	3.7	18.0	3.3	20	3.4
1A-Guagui-9	22.5	3.8	21.5	3.5	22.0	4.0	20.5	4
1A-Guagui-10	21.0	4.7	23.5	4.0	24.0	4.1	25.5	4.5
1A-Guagui-11	20.0	3.3	21.0	3.2	21.0	3.5	23	3.5
1A-Guagui-12	18.0	3.9	17.0	3.5	18.5	3.5	19.5	4.4
1A-Guagui-13	18.5	3.5	4.0	2.7	4.0	2.5	.	.
1A-Guagui-14	21.5	3.5	24.0	3.9	23.5	4.1	25.5	4.4
1A-Guagui-15	15.5	3.0	16.0	2.8	15.5	2.8	16.5	3.1
1A-Guagui-16	17.0	3.1	18.5	2.8	20.0	3.9	22.5	4.2
1B-Guagui-1	15.0	2.4	19.5	2.5	22.5	3.9	28	4.9
1B-Guagui-2	16.5	2.8	19.0	2.5	22.0	3.1	25	3.5
1B-Guagui-3	24.5	4.5	27.0	5.0	33.0	7.1	56.5	4.5
1B-Guagui-4	31.0	3.6	33.5	4.5	40.0	5.5	.	.
1B-Guagui-5	30.0	5.9	20.0	6.5	32.0	7.3	40	9
1B-Guagui-6	30.0	4.7	29.0	5.0	32.0	5.2	37	6.2
1B-Guagui-7	22.5	4.2	21.0	4.0	21.0	4.2	24.5	3.6

1B-Guagui-8	46.0	6.6	48.0	6.6	46.0	6.7	50.5	8
1B-Guagui-9	29.0	5.0	30.0	5.1	32.0	5.8	34	6.3
1B-Guagui-10	19.0	3.0	21.5	5.0	24.0	3.6	30.5	5.5
1B-Guagui-11	25.0	4.8	15.0	4.4	.	.	43	5.1
1B-Guagui-12	28.5	8.1	31.5	8.6	32.0	8.9	40.5	10
1B-Guagui-13	17.5	3.5	19.5	2.8	18.5	4.6	25.5	6.2
1B-Guagui-14	19.5	4.1	21.0	4.0	21.0	4.4	25	4.8
1B-Guagui-15	17.0	2.5	18.5	2.5	.	.	.	.
1B-Guagui-16	19.0	4.5	19.0	4.3	21.5	5.1	24.5	6.3
2A-Guagui-1	18.5	4.0	21.0	4.8	23.0	4.2	28	5.3
2A-Guagui-2	20.5	4.3	22.0	4.6	22.5	4.5	25	5.6
2A-Guagui-3	15.5	3.0	15.0	2.9	.	.	.	.
2A-Guagui-4	19.0	2.3	22.0	3.0	.	.	.	.
2A-Guagui-5	23.5	2.8	.	.	.	.	.	.
2A-Guagui-6	17.0	2.2	15.0	2.0	20.5	2.5	20	2.8
2A-Guagui-7	17.0	2.9	17.5	2.5	21.5	3.0	26	4.5
2A-Guagui-8	21.5	3.5	24.0	3.4	29.0	3.8	33	7.1
2A-Guagui-9	15.5	2.8	19.0	2.6	23.0	4.4	31.5	8.9
2A-Guagui-10	15.5	2.7	.	.	.	.	.	.
2A-Guagui-11	15.5	3.4	15.5	2.9	14.5	4.0	19	5.9
2A-Guagui-12	15.5	3.0	17.5	3.1	19.0	4.1	27	5.4
2A-Guagui-13	24.0	4.1	31.0	4.6	34.0	6.7	41.5	6.3
2A-Guagui-14	24.5	4.8	29.0	4.5	31.0	6.0	39	9.6
2A-Guagui-15	33.0	6.4	33.5	6.6	37.0	8.1	39.5	8.2
2A-Guagui-16	24.0	3.9	23.0	3.7	23.5	3.1	.	.
2B-Guagui-1	42.0	4.3	42.5	3.9	43.0	4.5	44.5	6.2
2B-Guagui-2	23.0	4.1	23.0	4.0	24.0	4.5	24	4.4
2B-Guagui-3	17.5	2.2	18.0	1.7	.	.	.	.
2B-Guagui-4	17.5	3.8	18.0	3.2	21.5	3.7	22.5	3.5
2B-Guagui-5	22.0	3.9	20.0	3.7	19.5	2.9	22.5	3.7
2B-Guagui-6	32.0	5.9	31.5	5.0	32.5	5.7	32.5	6
2B-Guagui-7	39.0	11.3	.	.	31.0	12.0	41.5	11.5
2B-Guagui-8	67.0	9.7	66.5	12.6	68.0	11.9	63	10
2B-Guagui-9	28.0	5.6	28.0	5.5	8.5	1.5	.	.
2B-Guagui-10	41.0	5.1	39.5	6.7	.	.	.	.
2B-Guagui-11	18.0	3.6	.	.	.	.	.	.
2B-Guagui-12	22.0	2.9	21.0	3.5	22.5	2.5	22.5	2.8
2B-Guagui-13	19.0	2.7	20.0	3.0	20.5	3.0	21.5	3.1
2B-Guagui-14	34.0	4.8	33.5	4.1	35.5	3.9	36.5	4.7
2B-Guagui-15	29.5	5.0	28.5	5.2	28.5	4.7	29.5	4.7
2B-Guagui-16	23.0	3.9	24.5	3.7	25.0	3.7	26.5	4.9
3A-Guagui-1	18.0	4.2	19.0	4.3	18.5	4.1	19.5	4.1
3A-Guagui-2	19.5	3.4	19.0	3.4	19.0	4.0	20	4.7
3A-Guagui-3	21.0	4.5	21.0	5.0	22.5	4.5	24.5	4
3A-Guagui-4	17.5	3.3	18.0	2.9	21.0	3.6	.	.
3A-Guagui-5	21.0	4.2	22.5	4.9	22.0	5.0	19.5	5.5
3A-Guagui-6	23.0	3.3	23.0	3.6	23.5	2.6	24	3.1
3A-Guagui-7	21.0	4.2	10.0	1.9	10.5	2.0	25	5
3A-Guagui-8	20.0	3.1	21.0	2.2	22.0	2.6	23.5	2.6

3A-Guagui-9	21.0	4.4	19.5	4.1	21.5	3.9	22	3.4
3A-Guagui-10	24.0	3.7	24.0	3.6	28.0	4.4	27.5	4.4
3A-Guagui-11	29.0	4.4	29.0	3.3	28.5	3.7	32	4.3
3A-Guagui-12	28.0	5.0	28.0	5.0	31.0	5.6	29	6.1
3A-Guagui-13	28.0	3.8	29.5	3.3	28.0	3.9	31	3.4
3A-Guagui-14	27.0	8.5	29.0	8.6	30.0	8.4	33.5	9.2
3A-Guagui-15	26.0	6.7	23.0	6.7	16.0	7.5	21	6.6
3A-Guagui-16	51.0	11.0	49.0	10.8	54.0	11.2	56	11.8
3A-Guagui-17	23.5	4.3	24.0	4.0	23.0	4.1	23.5	5.2
3A-Guagui-18	22.5	4.4	24.0	4.5	22.0	4.6	23.5	4.8
3A-Guagui-19	37.0	8.0	36.0	8.4	35.0	8.9	37.5	8.4
3A-Guagui-20	36.5	7.2	38.0	8.4	35.0	6.6	40.5	6.9
3B-Guagui-1	20.0	5.2	21.0	5.5	.	.	.	.
3B-Guagui-2	17.0	2.2	15.0	4.0	18.5	3.6	38	6
3B-Guagui-3	35.0	5.4	33.5	7.1	.	.	.	.
3B-Guagui-4	19.0	3.3	20.5	4.0	24.5	6.0	29	9
3B-Guagui-5	41.0	8.0	48.0	8.0	52.0	11.3	96	14
3B-Guagui-6	26.0	4.8	24.0	4.3	29.0	6.4	46.5	11.5
3B-Guagui-7	31.0	6.8	30.0	8.0	36.0	8.5	58	11.9
3B-Guagui-8	17.0	3.8	19.5	3.3	20.5	3.8	22.5	5.1
3B-Guagui-9	26.5	5.5	31.0	7.1	39.5	7.0	52	9.8
3B-Guagui-10	20.0	4.1	23.0	4.2	25.0	4.1	29	5.1
3B-Guagui-11	21.5	3.5	23.5	4.0	24.0	4.6	33	7
3B-Guagui-12	34.5	5.6	33.5	5.5	35.0	7.8	38.5	10.3
3B-Guagui-13	28.0	5.2	31.5	4.6	32.5	6.2	52.5	9.5
3B-Guagui-14	24.4	5.2	26.0	5.6	33.5	7.0	56	12.2
3B-Guagui-15	33.0	5.9	34.5	5.5	44.5	5.4	60	10
3B-Guagui-16	25.0	3.8	25.5	3.5	27.0	4.9	33.5	6.7
3B-Guagui-17	19.5	3.5	21.0	3.8	29.0	5.4	21	6.3
3B-Guagui-18	32.0	8.1	30.0	7.8	40.0	8.7	86	13.5
3B-Guagui-19	25.0	4.4	.	.	.	.	.	.
3B-Guagui-20	24.5	5.0	25.5	35.8	31.5	9.0	80	11.9
4A-Guagui-1	44.5	9.2	43.5	9.6	45.0	9.5	45	9.2
4A-Guagui-2	19.5	4.4	20.5	4.9	21.0	5.1	19.5	3.9
4A-Guagui-3	42.5	9.7	41.0	9.1	42.0	9.5	42.5	9
4A-Guagui-4	20.0	5.3	.	.	.	.	.	.
4A-Guagui-5	42.5	8.8	43.5	9.0	42.5	8.5	.	.
4A-Guagui-6	27.5	6.0	26.5	5.5	27.5	5.5	29	5.4
4A-Guagui-7	20.0	3.3	17.0	3.8	18.5	3.4	18.5	3.4
4A-Guagui-8	22.0	6.3	13.0	5.9	11.0	5.4	15	5.8
4A-Guagui-9	19.5	7.0	20.0	6.6	21.0	6.8	23	7.2
4A-Guagui-10	32.0	6.1	31.0	5.5	.	.	.	.
4A-Guagui-11	47.0	10.4	45.0	9.1	46.0	9.8	47.5	9
4A-Guagui-12	21.5	4.2	24.0	3.0	24.0	3.9	23	4.1
4A-Guagui-13	22.5	4.5	22.0	4.8	23.0	4.7	22.5	5.1
4A-Guagui-14	20.0	3.8	19.0	4.5	19.0	4.2	21	5
4A-Guagui-15	15.5	4.1	14.0	3.5	15.0	3.5	15	3.8
4A-Guagui-16	22.5	4.1	21.0	3.6	21.5	3.7	.	.
4B-Guagui-1	34.0	5.7	36.0	5.5	39.0	5.9	39.5	6.4

4B-Guagui-2	28.0	4.2	26.0	3.8	27.5	3.6	26	3.8
4B-Guagui-3	26.5	4.7		.	.	.	.	.
4B-Guagui-4	31.0	4.3	30.0	4.7	33.0	4.6	.	.
4B-Guagui-5	15.5	2.9	20.5	2.2	24.0	3.3	28.5	4.4
4B-Guagui-6	20.5	4.5	23.0	5.5	19.5	5.3	17.5	5.4
4B-Guagui-7	24.0	7.7	28.5	7.7	31.5	7.3	.	.
4B-Guagui-8	32.0	6.7		.	.	.	.	.
4B-Guagui-9	33.0	5.1	27.0	3.8	30.0	4.9	43.5	7.5
4B-Guagui-10	18.0	5.2		.	.	.	.	.
4B-Guagui-11	26.5	4.4	26.5	4.7	.	.	19	5.5
4B-Guagui-12	32.0	9.3	32.0	8.2	32.0	9.4	36.5	11.2
4B-Guagui-13	48.5	6.6	50.5	7.5	50.0	7.8	59.5	12.4
4B-Guagui-14	48.0	11.1	41.0	10.7	38.0	10.7	26	10.2
4B-Guagui-15	34.0	5.2	33.0	5.4	38.0	5.2	45	8.6
4B-Guagui-16	30.5	7.5	33.5	5.2	36.0	4.9	41.5	5.4
5A-Guagui-1	13.5	2.7		.	.	.	.	.
5A-Guagui-2	18.0	3.5	17.0	3.5	.	.	.	.
5A-Guagui-3	15.0	2.8	18.0	2.8	22.0	2.6	19.5	2.9
5A-Guagui-4	32.0	4.0	33.5	3.6	33.5	3.9	31	3.8
5A-Guagui-5	18.0	2.0	19.0	2.1	19.5	1.7	18.5	2
5A-Guagui-6	16.5	2.6	17.0	1.8	19.0	1.4	.	.
5A-Guagui-7	14.0	2.0	15.0	3.1	15.0	2.2	.	.
5A-Guagui-8	15.5	2.5	17.0	3.1	.	.	.	.
5A-Guagui-9	20.0	2.5		.	.	.	.	.
5A-Guagui-10	20.5	3.9	20.0	3.7	21.0	3.5	22.5	3.7
5A-Guagui-11	17.5	2.3	17.0	2.4	16.5	2.3	.	.
5A-Guagui-12	18.5	3.9	19.5	2.8	19.5	3.6	.	.
5A-Guagui-13	15.0	2.4	14.0	2.3	16.5	2.4	.	.
5A-Guagui-14	47.0	6.4	48.0	5.6	48.5	5.4	49.5	5.6
5A-Guagui-15	15.0	2.7	16.5	2.2	.	.	.	.
5A-Guagui-16	14.0	2.4	13.0	2.0	14.5	1.8	.	.
5B-Guagui-1	25.5	4.9	26.0	4.9	24.5	4.2	28	5.4
5B-Guagui-2	18.0	3.9	18.0	3.8	21.5	3.5	.	.
5B-Guagui-3	19.5	4.4	18.0	4.0	18.5	4.0	32	4.7
5B-Guagui-4	21.5	4.3	26.0	4.8	31.0	7.2	56.5	12.8
5B-Guagui-5	18.5	4.3	21.0	3.7	23.5	4.2	37.5	7.2
5B-Guagui-6	16.5	4.6	17.0	3.8	18.0	3.6	.	.
5B-Guagui-7	14.5	2.9	16.0	3.3	18.5	3.0	23	3.7
5B-Guagui-8	16.5	2.9		.	.	.	.	.
5B-Guagui-9	46.5	7.4	50.0	6.8	57.5	6.8	68	9.7
5B-Guagui-10	39.0	4.5	37.0	4.2	.	.	.	.
5B-Guagui-11	17.0	3.2	19.5	3.0	.	.	.	.
5B-Guagui-12	20.0	2.8	22.0	3.5	23.5	4.0	28	7.2
5B-Guagui-13	15.0	3.2	16.5	3.2	18.0	2.4	19	2.4
5B-Guagui-14	18.5	4.7	20.0	4.9	21.5	4.0	24	5.6
5B-Guagui-15	29.5	3.8	30.0	3.4	25.0	4.4	25	5.6
5B-Guagui-16	15.0	2.2	19.0	2.2	22.0	3.4	28.5	5.2
6A-Guagui-1	82.0	11.5	84.0	2.0	85.0	11.7	96.5	12.4
6A-Guagui-2	47.0	9.7	48.0	10.5	50.5	11.5	56.5	9.7

6A-Guagui-3	37.0	5.0	39.0	4.8	38.5	4.5	48	4.7
6A-Guagui-4	30.0	4.2	29.0	3.5	34.0	5.2	49	7.7
6A-Guagui-5	20.5	3.0	26.0	2.4	30.0	2.7	30.5	2.6
6A-Guagui-6	21.5	3.9	20.5	4.8	28.0	6.0	37	7.3
6A-Guagui-7	76.0	11.1	75.0	12.0	79.5	11.7	106	12.8
6A-Guagui-8	36.5	6.4	38.5	6.8	43.0	8.8	62.5	7.3
6A-Guagui-9	21.0	4.1	20.5	3.0	22.0	3.2	24	3.3
6A-Guagui-10	33.0	6.4	35.0	5.3	36.5	6.4	41	5.9
6A-Guagui-11	23.5	4.7	22.0	4.0	12.0	7.1	27.5	5.9
6A-Guagui-12	32.5	4.1	33.0	4.2	39.5	8.6	44.5	8.2
6A-Guagui-13	15.0	3.0	.	.	.	.	.	.
6A-Guagui-14	40.5	5.7	40.0	5.1	44.0	7.8	79	8.4
6A-Guagui-15	21.0	3.6	20.0	3.2	23.0	3.4	29	3.7
6A-Guagui-16	30.0	6.3	30.0	5.8	34.0	7.1	51	7.6
6B-Guagui-1	38.5	6.3	38.5	6.6	39.5	6.0	40	6.3
6B-Guagui-2	50.0	8.2	48.5	7.8	60.0	7.8	51	7.8
6B-Guagui-3	48.0	6.4	50.5	7.6	62.0	6.6	51	6.5
6B-Guagui-4	24.0	4.0	25.5	3.9	24.5	3.8	.	.
6B-Guagui-5	19.0	3.1	19.0	2.4	21.0	3.0	22	2.8
6B-Guagui-6	22.0	3.8	22.0	3.7	22.5	3.8	22.5	4
6B-Guagui-7	30.0	7.0	31.0	6.9	39.0	6.8	31.5	7.1
6B-Guagui-8	26.0	3.3	27.5	3.3	28.0	3.3	.	.
6B-Guagui-9	24.5	4.7	25.5	4.1	27.5	4.5	26	4.4
6B-Guagui-10	24.0	4.2	24.0	5.1	.	.	25	3.7
6B-Guagui-11	27.0	3.7	.	.	.	.	.	.
6B-Guagui-12	36.5	5.8	35.0	5.5	35.5	6.0	.	.
6B-Guagui-13	25.0	5.7	25.5	4.8	26.5	4.3	.	.
6B-Guagui-14	26.5	4.2	25.0	5.4	27.5	4.5	26.5	4.8
6B-Guagui-15	23.0	3.9	23.5	3.8	23.0	4.1	23	3.9
6B-Guagui-16	26.0	6.2	27.5	5.0	28.0	5.5	27	5.5

*Ocotea* spp

Tag #	July 2003		December 2003		May 2004		December 2004	
	Ht (cm)	BD (mm)	Ht (cm)	BD (mm)	Ht (cm)	BD (mm)	Ht (cm)	BD (mm)
1A-Oco-1	36.5	4.9	36.5	5.5	36.5	5.8	36	5.5
1A-Oco-2	17.0	2.7	15.5	3.0	17.0	3.5	17.5	4.5
1A-Oco-3	20.5	2.9	21.0	3.0	20.0	3.2	24.5	3.8
1A-Oco-4	25.0	3.4	30.0	4.9	29.0	5.2	30.5	6.2
1A-Oco-5	25.5	4.9	28.0	3.4	24.0	3.7	.	.
1A-Oco-6	26.5	3.4	28.0	3.1	25.0	4.3	32.5	4.5
1A-Oco-7	20.0	3.5	20.0	3.1	21.0	4.2	25	5.4
1A-Oco-8	23.0	6.0	25.0	3.6	25.0	3.9	27.5	4.4
1A-Oco-9	45.5	7.8	.	.	.	.	.	.
1A-Oco-10	18.0	2.4	17.0	3.1	15.0	3.2	17	3
1A-Oco-11	22.5	3.6	22.0	3.6	24.0	4.0	23.5	4.4
1A-Oco-12	22.0	2.4	.	.	.	.	.	.
1A-Oco-13	16.0	2.9	17.5	2.4	17.0	3.1	20.5	3.8

1A-Oco-14	23.5	3.2	22.0	2.9	22.0	3.4	24	3.5
1A-Oco-15	34.0	3.7	32.5	3.7	34.5	3.3	39	3.8
1A-Oco-16	16.0	2.3	16.0	2.2	15.5	2.3	18.5	3
1B-Oco-1	23.5	3.1	24.0	3.7	24.5	3.5	26.5	4.2
1B-Oco-2	23.0	4.1	23.0	4.0	24.0	3.8	24.5	5.2
1B-Oco-3	23.5	4.0	23.5	3.8	24.0	3.9	24.5	4.9
1B-Oco-4	22.0	2.9	23.5	4.0	26.0	4.6	31	6.2
1B-Oco-5	24.5	3.4	23.5	4.0	28.5	4.6	43.5	8
1B-Oco-6	31.5	5.6	33.5	7.5	40.5	8.2	45.5	9.3
1B-Oco-7	24.0	2.9	26.0	3.0	29.5	3.9	39	4.9
1B-Oco-8	18.5	3.0	18.0	3.1	21.0	4.4	28	6
1B-Oco-9	31.0	5.7	32.0	4.1	36.5	7.0	43.5	7.8
1B-Oco-10	15.5	3.1	18.0	4.0	28.0	3.3	22	4.1
1B-Oco-11	20.5	3.2	20.0	2.9	23.5	3.5	23	4
1B-Oco-12	41.0	4.3	43.0	4.8	57.0	6.0	77.5	7.1
1B-Oco-13	25.0	4.1	26.0	4.3	35.0	5.5	40.5	8.4
1B-Oco-14	23.0	3.5	29.0	3.7	40.0	4.4	50	6.3
1B-Oco-15	30.0	4.3	20.0	4.0	32.5	5.1	49.5	6.9
1B-Oco-16	28.5	3.0	26.0	3.0	34.5	3.4	38.5	3.3
2A-Oco-1	43.0	4.7	41.5	4.8	52.0	5.7	56	7.1
2A-Oco-2	38.0	4.1	38.0	5.0	47.5	5.0	49	6.8
2A-Oco-3	28.0	3.4	27.5	2.9	32.0	4.0	33	4.9
2A-Oco-4	16.5	2.4	16.5	2.7	20.0	2.8	22.5	3.3
2A-Oco-5	14.0	2.9	17.0	3.0	23.0	3.6	28	6
2A-Oco-6	31.0	3.4	35.5	3.2	42.0	4.2	44	5.6
2A-Oco-7	26.5	4.4	36.0	5.7	44.5	9.7	84	11.2
2A-Oco-8	19.5	3.3	23.5	4.5	29.0	5.6	43	6.9
2A-Oco-9	20.0	2.7	24.0	3.5	26.0	5.2	34.5	5.7
2A-Oco-10	20.5	3.5	.	.	.	.	.	.
2A-Oco-11	16.0	2.1	18.0	2.5	19.0	2.7	25	3.4
2A-Oco-12	29.0	3.3	29.0	3.5	44.5	4.0	54	5.3
2A-Oco-13	18.5	2.6	24.5	2.4	45.0	4.5	61	6.1
2A-Oco-14	22.0	2.9	22.5	3.0	28.0	3.4	39.5	4.5
2A-Oco-15	18.0	2.3	24.0	3.2	32.5	4.4	54.5	6.9
2A-Oco-16	24.0	3.0	27.5	3.1	29.0	4.5	31.5	3.6
2B-Oco-1	36.0	3.5	35.0	3.4	37.0	3.4	19.5	2.9
2B-Oco-2	23.5	2.5	24.0	2.5	23.5	3.1	26.5	3.9
2B-Oco-3	30.0	4.9	29.0	5.0	29.0	4.2	31.5	5.3
2B-Oco-4	15.5	2.5	16.5	3.0	17.0	2.9	17.5	2.9
2B-Oco-5	23.5	3.3	24.0	3.4	26.0	2.8	25.5	4
2B-Oco-6	20.0	2.2	19.0	2.3	21.0	4.1	27	3.1
2B-Oco-7	26.5	4.7	30.0	4.7	28.0	4.2	31	5
2B-Oco-8	15.0	2.2	16.0	2.1	17.5	2.5	20	2.6
2B-Oco-9	20.0	2.9	19.5	2.3	19.5	2.8	20	3.3
2B-Oco-10	55.0	5.1	52.5	5.4	66.5	5.5	76.5	6.3
2B-Oco-11	42.0	4.5	43.0	5.7	45.0	5.0	25.5	5.4
2B-Oco-12	16.0	3.4	16.5	3.2	20.0	2.8	20	3.4
2B-Oco-13	30.5	3.8	28.0	4.7	30.5	3.6	30.5	4
2B-Oco-14	24.0	3.8	25.0	3.3	26.0	2.9	28	3.1

2B-Oco-15	23.0	3.3	23.0	4.1	23.5	3.3	24	3.6
2B-Oco-16	24.0	2.6	24.0	2.2	23.5	1.8	25.5	2.9
3A-Oco-1	15.5	2.0	15.5	2.6	17.0	1.7	16.5	2
3A-Oco-2	32.0	5.7	32.0	5.0	38.5	4.8	36	4.6
3A-Oco-3	32.0	3.7	36.0	3.3	35.5	3.5	38.5	3.7
3A-Oco-4	47.0	5.9	47.0	5.8	48.0	5.8	48	5.8
3A-Oco-5	25.0	4.0	23.5	3.5	10.0	2.9	22	4.2
3A-Oco-6	18.5	2.8	19.0	1.8	17.5	2.2	20.5	2.2
3A-Oco-7	26.5	6.2	27.5	6.5	25.0	6.9	18.5	5.7
3A-Oco-8	19.5	2.4	20.0	2.4	20.0	3.0	22.5	3
3A-Oco-9	32.0	3.5	32.5	4.1	34.0	3.4	34	4.4
3A-Oco-10	26.5	3.3	25.0	2.7	29.0	3.1	27	3.5
3A-Oco-11	30.0	3.9	30.5	3.6	32.0	4.2	36.5	4.1
3A-Oco-12	31.0	5.4	32.5	3.9	32.0	4.6	30.5	4.5
3A-Oco-13	50.0	5.9	.	.	51.5	6.6	38	4.6
3A-Oco-14	21.5	3.2	21.5	2.8	21.5	3.1	12.5	3.1
3A-Oco-15	21.5	2.8	21.0	4.1	21.5	2.8	22	3.6
3A-Oco-16	37.5	4.8	38.0	4.5	38.0	5.1	38.5	5.1
3A-Oco-17	24.0	3.5	.	.	8.0	6.9	8	1.1
3A-Oco-18	33.0	3.8	36.0	3.5	36.0	3.4	40	3.7
3A-Oco-19	51.5	7.0	53.0	7.1	49.5	6.5	52.5	6.4
3A-Oco-20	29.0	5.0	.	.	9.0	1.5	11.5	5.2
3B-Oco-1	38.0	4.3	38.5	4.3	40.5	4.7	60.5	7.5
3B-Oco-2	33.0	4.0	34.0	3.8	37.0	3.8	34	8
3B-Oco-3	31.0	3.1	33.5	2.7	33.5	2.8	.	.
3B-Oco-4	25.5	3.2	28.0	2.8	35.0	3.1	38	5
3B-Oco-5	45.0	5.5	47.0	5.1	52.5	5.8	55	7.7
3B-Oco-6	21.5	3.3	24.0	3.6	30.0	4.1	41	5.6
3B-Oco-7	20.0	3.2	22.0	3.2	32.0	5.0	68.5	7.2
3B-Oco-8	22.0	3.3	23.0	3.2	26.0	2.9	31.5	3
3B-Oco-9	23.0	2.6	27.0	4.5	33.5	4.9	52	6.8
3B-Oco-10	25.5	4.3	23.5	4.1	28.0	5.4	42	6.5
3B-Oco-11	22.5	3.4	24.0	3.7	32.5	4.3	44	5.5
3B-Oco-12	25.0	5.5	45.0	5.0	45.5	5.4	46	7
3B-Oco-13	20.0	2.0	21.0	2.2	27.5	3.2	45	3.8
3B-Oco-14	32.5	6.2	34.5	6.5	33.0	5.0	48	6.1
3B-Oco-15	44.5	4.9	48.0	5.6	52.0	6.5	65	7.5
3B-Oco-16	36.0	4.9	34.0	4.8	40.0	4.0	40	4.7
3B-Oco-17	28.5	3.5	30.0	3.7	37.5	4.0	44.5	5.1
3B-Oco-18	52.5	8.2	53.0	7.5	68.5	7.4	100	9.7
3B-Oco-19	30.0	5.2	31.0	5.4	41.0	4.7	37.5	5
3B-Oco-20	22.5	3.5	21.0	3.0	25.5	3.4	39.5	6.2
4A-Oco-1	15.5	2.5	15.5	2.9	16.5	3.2	17.5	3.1
4A-Oco-2	23.5	5.7	27.5	6.9	25.5	5.9	25.5	7.7
4A-Oco-3	22.0	6.0	22.0	5.7	22.0	5.8	13.5	1.8
4A-Oco-4	32.5	4.6	29.5	4.5	34.5	4.6	35	5.2
4A-Oco-5	26.5	2.9	25.0	2.7	5.0	4.2	.	.
4A-Oco-6	27.5	5.1	24.0	4.0	28.0	4.9	28	4.7
4A-Oco-7	17.0	2.5	16.5	3.2	18.5	3.0	15	2.5



4A-Oco-8	29.0	3.7	29.0	3.1	27.5	3.4	29	3.4
4A-Oco-9	15.5	3.0	16.0	3.3	15.0	3.5	15	3.5
4A-Oco-10	17.5	3.6	16.5	3.2	18.0	3.8	16	4.5
4A-Oco-11	35.0	3.7	34.5	3.0	35.5	3.1	.	.
4A-Oco-12	38.5	5.5		.	.	.	.	.
4A-Oco-13	17.0	2.0	16.0	1.9	16.0	2.4	17	2.6
4A-Oco-14	15.0	2.7	15.0	2.1	14.5	1.9	15	2.4
4A-Oco-15	15.0	2.9	12.5	3.1	12.0	4.8	14	3
4A-Oco-16	12.0	6.2	12.0	5.8	13.5	6.2	15	5.8
4B-Oco-1	54.0	8.2	52.0	8.7	49.0	9.1	59	8.9
4B-Oco-2	24.5	3.0	24.0	2.5	26.0	3.0	27	3.5
4B-Oco-3	16.0	2.0	14.0	2.0	15.0	2.0	15.5	2.2
4B-Oco-4	19.0	3.0		.	.	.	.	.
4B-Oco-5	20.5	2.9	21.0	3.2	20.0	3.5	23.5	4.1
4B-Oco-6	48.5	5.6		.	.	.	.	.
4B-Oco-7	21.0	2.8	20.0	2.9	22.0	3.4	23.5	4
4B-Oco-8	26.5	5.9	25.5	6.3	27.0	5.9	37	5.7
4B-Oco-9	23.5	4.4	29.0	4.4	37.0	5.4	49.5	7.3
4B-Oco-10	21.5	3.0	22.5	3.4	24.0	4.5	24.5	3.8
4B-Oco-11	35.0	5.9	35.5	7.0	39.0	8.4	43	8.8
4B-Oco-12	30.0	4.7	35.5	5.3	39.0	7.4	51.5	7.4
4B-Oco-13	27.0	8.7	26.0	7.7	32.5	7.7	50.5	8.3
4B-Oco-14	76.0	6.2	77.0	7.4	76.0	8.5	82.5	7.5
4B-Oco-15	14.5	1.6	14.0	1.6	15.0	1.7	.	.
4B-Oco-16	18.0	2.4	16.0	2.5	17.0	1.9	17.5	2.2
5A-Oco-1	23.0	3.9	24.5	4.3	23.0	3.4	26	4
5A-Oco-2	19.0	3.3		.	.	.	.	.
5A-Oco-3	23.5	3.5	24.0	3.6	25.0	3.3	24	3.7
5A-Oco-4	14.0	3.2	13.5	3.0	15.5	2.5	14.5	2.8
5A-Oco-5	17.0	3.9	16.5	3.4	17.0	2.9	18.5	3.7
5A-Oco-6	17.0	2.2	17.0	2.2	17.0	1.9	17.5	2.4
5A-Oco-7	33.0	5.4		.	.	.	.	.
5A-Oco-8	28.0	4.1	27.0	2.6	28.0	2.2	26.5	3.4
5A-Oco-9	15.0	2.5	15.5	2.0	17.0	2.8	19.5	2
5A-Oco-10	22.5	5.1	22.0	3.5	22.0	3.6	22	3.8
5A-Oco-11	24.5	4.6	24.5	4.8	23.5	4.9	24	5
5A-Oco-12	14.0	1.7	12.5	1.9	13.0	1.7	14	1.9
5A-Oco-13	17.5	2.8	17.0	3.2	18.5	3.0	18	3.1
5A-Oco-14	31.5	6.2	39.0	6.1	35.0	6.2	30	6.4
5A-Oco-15	15.0	2.8	15.0	2.2	15.0	2.0	16.5	2.3
5A-Oco-16	27.0	4.2	27.0	4.4	27.0	4.1	29	3.9
5B-Oco-1	40.0	4.6	48.5	5.4	71.5	5.5	79.5	9
5B-Oco-2	37.5	6.8	40.0	7.0	62.5	7.6	92	10.3
5B-Oco-3	30.0	4.5	28.0	5.2	43.0	7.0	41	7.5
5B-Oco-4	51.0	5.5	52.0	6.0	52.5	6.3	50.5	7.7
5B-Oco-5	31.0	5.3	28.5	5.8	42.5	7.5	52.5	10.4
5B-Oco-6	18.0	3.4	20.0	3.6	24.5	3.8	28.5	5.8
5B-Oco-7	37.0	6.1	35.0	4.6	36.5	5.0	42	5.5
5B-Oco-8	26.5	4.1	27.5	3.1	41.5	4.1	69	6.6

5B-Oco-9	22.5	4.2	25.0	3.9	28.0	4.5	37.5	5.5
5B-Oco-10	30.0	4.2	29.0	4.5	36.0	4.3	37.5	5.4
5B-Oco-11	21.5	3.3	23.0	3.2	24.0	3.7	28	3.7
5B-Oco-12	29.0	4.6	38.0	4.9	40.0	5.8	62	7.6
5B-Oco-13	47.0	6.5	49.0	6.8	63.0	10.0	100	12.4
5B-Oco-14	17.0	2.9	19.0	3.5	29.0	4.8	28	7.9
5B-Oco-15	21.0	3.1	24.5	3.9	35.0	4.4	37	5.5
5B-Oco-16	18.0	2.7	17.5	2.5	21.0	3.2	27	4
6A-Oco-1	16.0	2.4	17.5	2.5	19.5	2.8	17.5	2.9
6A-Oco-2	37.0	5.0	39.0	5.1	48.0	2.6	65	6.8
6A-Oco-3	24.0	3.5	24.0	3.3	28.5	4.1	32.5	4.5
6A-Oco-4	15.5	1.9	16.0	1.8	20.5	2.7	33	3.1
6A-Oco-5	23.0	3.0	22.0	3.0	22.5	3.8	31.5	4.9
6A-Oco-6	19.5	4.0	18.0	2.7	23.0	3.9	23.5	3.7
6A-Oco-7	22.5	3.1	22.0	2.9	25.0	3.7	.	.
6A-Oco-8	18.0	3.3	17.0	2.4	20.0	3.6	22.5	3.4
6A-Oco-9	36.5	9.5	36.0	9.2	39.0	9.8	45	9.1
6A-Oco-10	27.0	4.6	28.5	4.6	41.0	5.2	45.5	5.5
6A-Oco-11	52.0	7.5	60.0	7.4	78.5	8.2	102	11.4
6A-Oco-12	18.5	4.1	15.5	2.8	14.0	3.2	20.5	5.7
6A-Oco-13	30.0	4.2	29.0	3.9	34.0	5.1	50.5	6.5
6A-Oco-14	18.0	2.8	18.0	3.5	18.0	4.1	28.5	4.4
6A-Oco-15	43.0	6.5	44.5	6.2	47.0	8.5	62.5	8.2
6A-Oco-16	21.0	3.2	19.5	3.3	27.5	4.1	33	4.3
6B-Oco-1	38.0	5.3	37.5	5.1	43.0	5.2	40.5	5.8
6B-Oco-2	28.5	2.5	29.5	2.4	27.0	2.5	32.5	4.5
6B-Oco-3	33.5	3.0	33.5	3.2	34.5	3.1	35.5	3.7
6B-Oco-4	33.0	4.1	32.5	3.3	34.0	4.6	34.5	4.1
6B-Oco-5	17.0	3.1	16.0	2.0	18.5	3.2	23	3
6B-Oco-6	15.0	3.4	18.0	4.4	20.5	2.9	22.5	3.1
6B-Oco-7	26.0	3.8	27.0	3.6	28.5	3.5	29.5	3.1
6B-Oco-8	32.0	8.5	31.5	8.7	35.0	9.5	37	8.2
6B-Oco-9	33.5	3.9	33.5	3.8	34.5	4.6	35.5	4.1
6B-Oco-10	41.5	5.4	41.5	4.2	46.5	4.4	46	4.7
6B-Oco-11	29.0	5.5	.	.	.	.	.	.
6B-Oco-12	22.5	3.7	22.0	3.3	25.0	3.3	30.5	3.7
6B-Oco-13	15.0	2.3	17.5	3.2	18.5	3.2	22	3
6B-Oco-14	48.0	4.1	50.5	3.8	51.5	4.4	52.5	4.3
6B-Oco-15	41.0	4.3	39.0	4.7	41.5	4.6	43	4.9
6B-Oco-16	18.5	2.2	20.0	2.5	21.5	2.8	22.5	2.6

*Roystonea borinquena*

Tag #	July 2003			December 2003			May 2004			December 2004		
	Ht (cm)	BD (mm)	Leaf (cm)	Ht (cm)	BD (mm)	Leaf (cm)	Ht (cm)	BD (mm)	Leaf (cm)	Ht (cm)	BD (mm)	Leaf (cm)
1A-Roy-1	5.0	3.9	32.5	6.0	2.7	18.0	5.5	19.5	16.5	6.5	3.8	36
1A-Roy-2	10.0	5.4	45.0	10.0	4.9	45.5	9.0	5.1	41.0	.	.	.
1A-Roy-3	7.5	3.3	44.5	8.0	4.8	45.0	8.5	5.8	44.0	.	.	.
1A-Roy-4	7.5	3.6	34.5	7.0	3.2	18.5	.	.	.	.	.	.
1A-Roy-5	5.0	2.5	27.0	6.0	2.7	36.0	7.5	3.6	42.0	5	4	42
1A-Roy-6	9.0	3.8	47.0	9.0	5.2	49.0	10.0	5.8	20.0	10	4.4	27
1A-Roy-7	9.0	7.5	51.0	10.0	7.7	50.0	10.0	8.5	60.0	13	8.7	73
1A-Roy-8	10.0	6.0	41.0	8.5	5.0	41.0	9.0	5.4	42.0	.	.	.
1A-Roy-9	10.0	3.2	45.5	.	.	.	.	.	.	.	.	.
1A-Roy-10	7.0	4.2	32.2	2.0	3.3	13.0	5.0	3.0	14.5	.	.	.
1A-Roy-11	13.0	4.4	54.5	12.5	4.8	56.0	15.0	6.7	66.0	19	6.1	80
1A-Roy-12	10.0	5.0	47.0	8.5	5.2	34.0	9.0	3.9	33.0	8	5	45
1A-Roy-13	7.5	3.5	37.0	8.0	4.5	43.0	10.0	4.4	47.5	9	7	57.5
1A-Roy-14	10.5	3.5	50.0	10.0	3.9	43.5	9.0	5.6	44.0	8.5	3.2	35.5
1A-Roy-15	9.0	6.6	55.5	9.5	7.1	61.0	9.5	6.5	68.0	9	7.1	69.5
1A-Roy-16	4.0	2.1	26.0	.	.	.	.	.	.	.	.	.
1B-Roy-1	7.0	3.0	32.0	4.5	3.6	31.2	9.0	4.6	52.0	14.5	6.4	69.5
1B-Roy-2	10.0	5.1	58.5	13.0	6.7	70.0	16.5	8.2	95.0	23.5	10	120.5
1B-Roy-3	6.0	3.6	49.0	10.0	5.8	49.0	15.0	6.6	80.0	20.5	10.9	106.5
1B-Roy-4	15.0	7.9	70.0	17.0	9.0	54.0	20.0	10.3	75.5	18	8.8	98.5
1B-Roy-5	13.0	7.5	50.0	14.5	6.4	54.0	17.0	10.1	71.5	16	7.8	92
1B-Roy-6	8.0	3.7	41.5	10.0	6.0	62.0	19.0	11.2	94.5	18.5	13.2	123
1B-Roy-7	6.5	5.3	74.0	14.5	5.8	66.5	20.0	7.1	96.0	24.5	9.4	128.5
1B-Roy-8	5.0	2.6	27.5	3.0	3.5	30.5	14.0	4.7	61.5	13.5	4.8	44
1B-Roy-9	15.0	7.1	58.5	.	.	.	.	.	.	.	.	.
1B-Roy-10	9.0	4.1	41.5	9.5	5.0	43.0	8.5	7.2	52.5	9.5	8.8	80.5
1B-Roy-11	8.0	3.9	38.0	9.0	5.9	45.0	11.0	6.5	44.5	.	.	.
1B-Roy-12	12.0	5.8	60.0	14.5	7.6	55.0	12.5	7.8	36.5	11	7.5	44.5
1B-Roy-13	9.0	5.1	47.5	8.0	5.9	54.0	12.0	11.4	64.5	12.5	11	95
1B-Roy-14	6.5	3.3	37.0	8.5	6.1	42.0	14.0	7.2	50.0	14	10.5	111
1B-Roy-15	11.0	3.8	32.0	10.0	5.9	32.0	8.0	5.0	34.0	6	3.1	21.5
1B-Roy-16	7.0	5.7	50.5	8.5	5.5	48.5	9.0	4.5	46.0	8.5	4.6	41.5
2A-Roy-1	7.5	3.2	39.0	.	.	.	.	.	.	.	.	.
2A-Roy-2	10.0	6.0	57.0	11.5	6.4	60.5	14.0	7.7	84.5	20	9.6	107
2A-Roy-3	7.0	5.5	43.0	.	.	.	.	.	.	.	.	.
2A-Roy-4	11.0	5.4	43.0	10.0	6.3	42.0	6.0	5.8	31.0	5	4.9	38
2A-Roy-5	7.0	2.5	24.0	6.5	3.9	26.0	9.0	4.5	31.5	.	.	.
2A-Roy-6	8.0	3.2	39.0	7.0	3.5	39.0	9.5	4.4	42.0	.	.	.
2A-Roy-7	4.5	4.0	33.5	.	.	.	.	.	.	.	.	.
2A-Roy-8	15.5	7.7	56.0	14.0	10.9	50.0	19.5	11.0	67.5	20	13.9	86
2A-Roy-9	6.0	2.9	13.5	6.0	4.3	26.5	9.5	3.5	31.5	.	.	.
2A-Roy-10	4.5	2.8	38.0	.	.	.	.	.	.	.	.	.
2A-Roy-11	7.0	2.4	20.0	7.5	4.5	40.5	7.0	4.5	40.0	9	4.7	43

2A-Roy-12	6.0	3.0	22.0	4.5	3.1	30.0	5.0	4.3	32.0	.	.	.
2B-Roy-1	11.0	5.4	62.0	16.0	6.3	65.0	14.0	6.0	76.5	14	5.9	44
2B-Roy-2	5.5	3.0	32.5	.	.	.	.	.	.	.	.	.
2B-Roy-3	5.5	2.6	28.0	6.0	3.5	36.0	5.0	3.1	36.0	.	.	.
2B-Roy-4	5.5	3.7	41.0	6.0	3.3	37.0	8.0	3.4	41.0	6.5	3.1	42.5
2B-Roy-5	6.5	2.8	33.5	5.0	2.7	33.5	5.0	2.5	32.5	.	.	.
2B-Roy-6	18.0	15.0	124.0	21.0	16.4	121.0	21.5	14.1	90.0	19.5	12.2	84.5
2B-Roy-7	19.0	9.0	73.0	17.0	9.5	39.5	14.0	8.0	48.5	.	.	.
2B-Roy-8	11.0	5.6	54.4	9.5	6.0	58.0	9.0	4.5	59.5	.	.	.
2B-Roy-9	14.0	7.9	77.0	14.5	7.9	35.0	.	.	.	.	.	.
2B-Roy-10	10.0	3.1	53.0	12.0	3.5	54.0	11.5	3.0	51.0	.	.	.
2B-Roy-11	15.0	6.2	70.0	13.0	6.2	63.0	.	.	.	.	.	.
2B-Roy-12	5.5	2.0	17.5	.	.	.	.	.	.	.	.	.
2B-Roy-13	7.0	1.9	15.0	.	.	.	.	.	.	.	.	.
3A-Roy-1	8.0	4.3	43.5	9.0	5.3	47.0	13.5	6.0	54.0	13.5	6	52.5
3A-Roy-2	4.0	3.5	35.0	3.0	3.8	33.0	5.0	3.7	34.5	7	4	37.5
3A-Roy-3	5.0	2.7	37.5	.	.	.	.	.	.	.	.	.
3A-Roy-4	6.5	2.2	29.0	4.0	2.1	24.0	.	.	.	.	.	.
3A-Roy-5	23.5	19.7	141.5	25.0	21.3	151.0	29.5	22.0	141.0	45.5	23.3	140
3A-Roy-6	3.5	3.9	32.5	7.5	3.2	33.5	7.5	4.8	33.0	9.5	4.7	35.5
3A-Roy-7	8.0	3.0	40.0	8.5	3.3	40.0	8.0	3.7	44.0	9.5	4.1	50.5
3A-Roy-8	25.0	17.4	128.0	23.5	19.0	115.0	25.0	15.1	105.0	20.5	14.4	97.5
3A-Roy-9	7.5	4.1	40.5	8.0	4.7	55.5	11.0	5.6	58.0	9	6.1	71
3A-Roy-10	8.0	5.7	59.0	7.0	5.7	64.5	10.0	6.5	66.5	10.5	7.2	41.5
3A-Roy-11	4.0	3.2	36.5	20.0	16.4	117.0	24.0	15.1	115.5	21	6.4	123
3A-Roy-12	23.0	17.0	118.0	3.0	3.3	36.0	6.5	3.8	31.0	5.5	4.1	43
3A-Roy-13	17.5	3.6	78.0	15.0	10.2	76.0	15.0	9.9	75.0	15.5	10.5	67.5
3A-Roy-14	7.0	4.8	39.0	6.5	4.2	41.0	14.0	5.1	58.5	18.5	6.7	80
3A-Roy-15	28.0	14.1	147.0	27.0	14.6	143.0	24.5	14.3	88.0	21	6.8	104.5
3A-Roy-16	7.0	3.7	39.0	5.5	3.7	39.0	8.5	3.7	33.5	.	.	.
3A-Roy-17	7.0	5.1	50.5	11.0	4.6	55.0	.	.	.	.	.	.
3A-Roy-18	6.0	3.6	34.0	6.5	3.6	37.0	9.5	3.8	40.0	.	.	.
3A-Roy-19	7.5	6.7	42.0	9.0	5.8	45.0	9.5	5.1	45.0	10.5	5.4	58
3A-Roy-20	8.5	4.3	51.0	10.5	4.9	56.0	11.0	5.7	64.0	12.5	6.3	75
3B-Roy-1	7.5	3.6	36.5	.	.	.	.	.	.	.	.	.
3B-Roy-2	4.0	3.6	30.0	5.0	4.0	34.0	17.0	6.3	64.5	14	11.2	120
3B-Roy-3	7.5	3.3	41.5	6.0	4.8	46.5	16.0	6.7	68.5	8	12	79
3B-Roy-4	10.0	5.0	57.0	9.0	5.7	78.0	19.5	8.1	95.0	23	13.5	114
3B-Roy-5	4.0	3.5	31.0	8.0	5.4	54.0	20.0	6.7	77.0	29	11	132
3B-Roy-6	6.0	5.4	48.0	9.0	7.0	71.0	17.0	7.5	101.0	31	10.6	125.5
3B-Roy-7	7.0	3.3	42.0	8.5	3.3	43.0	.	.	.	.	.	.
3B-Roy-8	6.0	3.4	41.0	7.0	2.8	33.0	5.0	4.4	29.0	.	.	.
3B-Roy-9	5.0	3.0	30.0	3.5	2.7	28.0	.	.	.	.	.	.
3B-Roy-10	6.0	3.7	45.5	9.5	4.4	44.0	14.0	5.8	62.5	.	.	.
3B-Roy-11	6.5	3.1	42.0	11.0	4.2	49.0	13.0	5.8	76.0	.	.	.
3B-Roy-12	9.0	4.3	42.0	8.0	4.9	42.0	20.0	5.9	77.5	.	.	.
3B-Roy-13	8.0	3.5	44.0	5.5	3.9	41.5	9.0	5.4	50.5	12	9.1	63
3B-Roy-14	6.0	2.6	29.5	9.0	3.7	44.0	13.0	6.5	82.5	.	.	.
3B-Roy-15	6.5	3.5	34.0	7.5	5.4	49.0	16.0	7.4	81.0	17	7.6	34

3B-Roy-16	5.0	4.0	40.0	8.0	6.0	45.0	11.0	5.8	69.5	15	9.7	87
3B-Roy-17	6.5	3.0	27.0		.	.	.	.	.	.	.	.
3B-Roy-18	19.0	16.4	112.0	21.0	19.5	90.0	26.5	15.8	100.0	34	20.8	151.5
3B-Roy-19	5.0	2.3	20.0	9.0	4.2	39.0	12.0	6.0	65.0	.	.	.
3B-Roy-20	9.5	7.2	66.0	10.0	8.9	91.0	24.0	10.5	131.0	.	.	.
4A-Roy-1	8.0	4.6	53.5	11.0	5.7	57.0	11.0	4.1	58.0	9	4.7	57
4A-Roy-2	12.0	3.8	58.0	10.0	4.3	54.0	10.0	4.9	54.0	9	4.1	44
4A-Roy-3	3.5	2.6	32.5	3.5	1.7	31.0	4.0	2.9	32.5	2.5	3.5	33
4A-Roy-4	1.0	2.4	11.5		.	.	.	.	.	.	.	.
4A-Roy-5	7.0	5.6	37.5	5.0	5.5	42.0	5.0	4.2	41.0	8	4.8	43
4A-Roy-6	11.0	7.0	56.0	12.0	8.5	51.0	10.0	8.5	47.0	11	6.8	58
4A-Roy-7	8.0	4.6	53.5	7.0	4.3	53.5	7.5	5.4	64.5	9.5	5.7	73.5
4A-Roy-8	3.0	2.6	28.5	1.0	2.2	27.5	1.0	2.7	30.5	2	3.5	30
4A-Roy-9	5.0	3.4	28.0	5.5	3.0	34.5	8.0	3.7	36.0	9	3.7	43.5
4A-Roy-10	6.0	4.8	21.5	5.5	2.5	27.0	7.0	2.9	34.0	7	2.9	36
4A-Roy-11	4.0	2.0	16.0	4.0	2.4	28.5	3.5	2.9	30.5	4	3.4	31.5
4B-Roy-1	18.0	9.9	77.0	18.0	12.5	78.0	18.0	17.2	100.0	31	14.9	122.5
4B-Roy-2	5.0	4.3	39.5	7.0	4.4	44.0	7.0	5.0	60.0	17	7.6	89
4B-Roy-3	6.0	2.9	37.0	5.0	3.5	41.0	.	.	.	.	.	.
4B-Roy-4	7.0	4.5	52.0	5.0	4.1	40.0	.	.	.	.	.	.
4B-Roy-5	14.0	13.0	76.0		.	.	.	.	.	.	.	.
4B-Roy-6	9.0	4.8	52.0	8.0	3.9	50.0	8.0	3.9	56.0	15	5.7	66.5
4B-Roy-7	11.0	5.4	60.0	8.0	5.4	67.0	9.0	5.5	69.0	8.8	4.8	57
4B-Roy-8	10.0	5.6	50.0	8.0	5.0	49.0	9.0	5.8	57.0	10.5	6.1	68
4B-Roy-9	23.0	16.7	116.0	24.5	17.0	121.5	22.0	18.0	123.0	25	19.7	154
4B-Roy-10	7.0	4.5	35.0	9.0	4.1	46.0	6.0	4.5	44.0	.	.	.
4B-Roy-11	7.5	4.7	36.0	9.0	4.4	39.0	8.0	4.6	41.5	9	4.8	51
4B-Roy-12	5.0	2.9	26.0	3.0	3.4	14.5	3.0	2.9	14.5	.	.	.
4B-Roy-13	8.0	5.5	63.5	7.0	6.7	64.0	16.0	9.5	77.0	16	13.5	131
4B-Roy-14	7.0	4.1	39.0	6.5	3.6	40.0	9.0	4.2	41.0	3	3.9	39.5
4B-Roy-15	3.4	2.7	23.0		.	.	.	.	.	.	.	.
4B-Roy-16	14.0	10.6	103.0	18.0	11.0	97.5	18.5	10.5	97.0	20	11.5	107
5A-Roy-1	7.0	3.4	39.5	8.0	3.7	43.5	7.0	2.9	43.0	7.5	4.3	45.5
5A-Roy-2	5.5	4.7	33.0		.	.	.	.	.	.	.	.
5A-Roy-3	6.0	4.0	37.5		.	.	.	.	.	.	.	.
5A-Roy-4	8.0	4.4	37.0		.	.	.	.	.	.	.	.
5A-Roy-5	8.0	3.9	43.0		.	.	.	.	.	.	.	.
5A-Roy-6	6.0	3.1	36.0		.	.	.	.	.	.	.	.
5A-Roy-7	6.5	3.1	38.0	4.5	3.0	31.0	.	.	.	.	.	.
5A-Roy-8	8.0	5.6	55.0	9.0	5.1	54.0	9.5	4.8	37.0	7	3.8	30.5
5A-Roy-9	16.0	11.4	85.0	16.0	10.8	94.0	16.5	9.4	95.5	18.5	9.5	92
5A-Roy-10	7.0	3.5	38.0		.	.	.	.	.	.	.	.
5A-Roy-11	7.0	4.1	38.0		.	.	.	.	.	.	.	.
5A-Roy-12	8.0	3.4	42.0	7.0	3.8	41.5	5.5	3.2	28.0	.	.	.
5A-Roy-13	6.0	2.6	31.5	5.5	3.8	37.0	7.0	3.5	39.0	.	.	.
5A-Roy-14	6.0	2.9	29.0	6.5	2.8	29.5	6.5	3.4	30.0	8	3.9	38
5A-Roy-15	8.5	2.5	39.0		.	.	.	.	.	.	.	.
5A-Roy-16	7.0	4.0	34.0	5.5	3.6	33.5	.	.	.	.	.	.
5B-Roy-1	14.0	6.2	57.0	7.0	8.0	60.5	20.5	10.1	81.5	22	15.8	122

5B-Roy-2	7.5	4.1	42.0	.	.	.	.	.	.	.	.	.
5B-Roy-3	8.0	3.4	39.5	.	.	.	.	.	.	.	.	.
5B-Roy-4	8.0	4.6	41.0	9.5	4.7	42.5	15.5	6.0	58.0	16	6.6	80
5B-Roy-5	8.0	4.1	46.0	13.5	5.4	55.0	17.5	7.7	73.0	19	8.8	90.5
5B-Roy-6	10.5	5.6	63.5	11.0	6.4	63.0	15.5	5.9	79.5	15.5	9.8	106
5B-Roy-7	6.5	4.2	48.0	6.5	6.3	58.0	8.0	4.6	60.0	11	7.2	82
5B-Roy-8	9.5	4.5	50.0	6.0	4.3	13.0	.	.	.	.	.	.
5B-Roy-9	7.0	5.4	45.5	7.0	4.2	47.0	13.0	7.5	74.0	6	12.2	91
5B-Roy-10	8.0	3.9	35.0	7.5	5.3	47.0	21.0	7.7	83.0	15	10	103
5B-Roy-11	7.5	3.8	38.0	.	.	.	.	.	.	.	.	.
5B-Roy-12	6.0	4.0	39.5	.	.	.	.	.	.	.	.	.
5B-Roy-13	4.5	2.5	24.0	.	.	.	.	.	.	.	.	.
5B-Roy-14	8.5	4.5	49.0	6.0	4.2	28.0	8.0	3.2	31.0	7.5	3.7	43
5B-Roy-15	6.0	2.2	20.0	.	.	.	.	.	.	.	.	.
5B-Roy-16	8.0	3.5	36.5	12.0	6.3	60.0	24.0	8.8	94.5	.	.	.
6A-Roy-1	7.5	2.6	34.0	7.0	3.2	39.0	8.5	4.7	51.0	13.5	6.3	72.5
6A-Roy-2	12.5	5.3	40.0	11.0	5.6	45.0	9.0	5.2	44.0	11	4.3	26.5
6A-Roy-3	22.0	10.3	112.0	.	.	.	.	.	.	.	.	.
6A-Roy-4	9.5	5.5	52.5	19.0	10.1	104.0	29.0	12.3	128.5	29	13.8	149.5
6A-Roy-5	15.0	7.9	68.5	11.0	5.8	41.0	10.5	6.2	41.5	10.5	6.6	62
6A-Roy-6	11.0	4.6	61.0	11.0	4.0	60.5	14.5	5.6	77.0	13.5	6.9	82.5
6A-Roy-7	10.5	4.4	44.0	10.0	5.2	54.5	17.0	8.2	69.0	14	11.6	116.5
6A-Roy-8	10.0	5.2	55.0	10.5	5.3	61.0	16.0	7.1	68.0	.	.	.
6A-Roy-9	14.0	8.3	67.5	17.0	7.9	85.0	21.0	11.2	109.0	21.5	10.3	122
6A-Roy-10	12.0	6.2	66.0	13.0	6.1	75.0	18.5	8.8	93.5	23	10.4	126
6A-Roy-11	13.5	5.3	60.5	13.0	6.8	77.0	24.0	9.4	93.0	20	10.7	87.5
6A-Roy-12	15.0	6.0	69.0	14.0	6.2	72.0	18.5	7.1	88.0	27.5	13.5	124
6A-Roy-13	7.0	4.5	40.0	5.0	5.1	56.0	21.0	8.0	82.0	22	8.3	90
6A-Roy-14	16.0	5.8	64.5	16.0	6.0	74.5	16.0	5.9	62.5	16.5	5.4	77
6A-Roy-15	9.0	3.3	34.0	6.5	4.0	45.0	19.0	6.5	73.0	5.5	12.2	118.5
6A-Roy-16	11.5	4.3	55.5	9.0	4.4	43.0	14.0	5.3	65.5	16	5.5	84
6B-Roy-1	17.5	8.2	88.0	16.5	9.3	100.0	24	9.0	110.0	20	12	110.5
6B-Roy-2	17.0	8.4	93.0	18.0	8.8	99.0	19	9.9	104.5	19	10.1	89
6B-Roy-3	14.0	8.7	53.0	15.0	9.0	55.5	15	8.8	54.5	14	10.3	53.5
6B-Roy-4	13.5	5.2	61.5	14.0	6.5	73.0	16	7.6	79.5	15	7.3	86
6B-Roy-5	7.5	4.4	41.0	6.5	4.1	18.5	7	4.4	21.0	.	.	.
6B-Roy-6	8.0	3.8	40.5	7.0	3.7	39.0	10	4.4	40.0	8.5	4.4	41
6B-Roy-7	8.5	6.1	39.0	7.5	4.6	44.5	7	4.6	45.0	3.5	4.2	42.5
6B-Roy-8	5.5	3.2	28.0	5.5	3.8	37.0	9	3.8	39.5	7.5	4.7	57.5
6B-Roy-9	20.0	9.7	76.0	19.5	8.9	57.0	19	7.3	56.5	.	.	.
6B-Roy-10	6.0	5.4	49.5	9.0	5.2	50.0	11	5.9	60.5	15	5.9	37.5
6B-Roy-11	18.0	6.1	61.0	15.5	7.0	70.0	17	7.4	61.0	16	8.6	81
6B-Roy-12	3.5	2.8	30.0	4.0	2.8	37.5	7	3.7	42.5	6	4	45.5
6B-Roy-13	24.0	17.1	135.0	.	.	.	.	.	.	.	.	.
6B-Roy-14	5.0	3.6	37.5	3.0	3.4	35.5	7	4.2	35.5	7	4.2	45
6B-Roy-15	8.5	4.6	58.5	14.0	7.0	60.5	13	5.9	60.5	13	5	29
6B-Roy-16	15.0	7.3	60.0	15.0	8.2	65.0	13	7.2	62.0	11	7.5	48

## 8.7 PLANTED SEEDLINGS

Tag numbers incorporate plot number, species abbreviations, and seedling number. 1A, 2B, 3A, 4A, 5A, and 6B are control plots, 1B, 2A, 3B, 4B, 5B, and 6A are gap plots. 'Ht' is height from ground to the point where the first leaf separates from the stem; 'Leaf length' is the length of the plant from ground level to tip of longest leaf; 'BD' is basal diameter of stem base above soil or litter layer. OPM is *Prestoea montana*; ORB is *Roystonea borinquena*. Empty spaces represent dead or missing seedlings.

Tag #	August 2003			December 2003			May 2004			December 2004		
	Height (cm)	Leaf length (cm)	BD (mm)	Height (cm)	Leaf length (cm)	BD (mm)	Height (cm)	Leaf length (cm)	BD (mm)	Height (cm)	Leaf length (cm)	BD (mm)
1A-OPM-01	4	16	3.2	5	18	3.8	7	23.5	5.08	3.5	38.5	5.6
1A-OPM-02	5	19	3.5	5	22	3.7	6	26	4.01	6.0	33.5	4.6
1A-OPM-03	4	16	2.4	3	22	2.9	3	23.5	3.05	.	.	.
1A-OPM-04	4	14	2.6	3	23	2.5	3	23	3.35	0.5	24.5	3.5
1A-OPM-05	1	16	2.1	2.5	23	3.5	3.5	28	3.61	4.5	45	6.7
1B-OPM-01	3.5	16	2.6	.	.	.	.	.	.	.	.	.
1B-OPM-02	1	15.5	2.5	3	24	2.5	6.5	38.5	5.13	7.5	79.5	8.9
1B-OPM-03	4.5	18.5	2.5	.	.	.	.	.	.	.	.	.
1B-OPM-04	2.5	15	2.4	.	.	.	.	.	.	.	.	.
1B-OPM-05	3	17	2.2	5	22	3.5	7	31.5	5	5.5	55	7
2A-OPM-01	0	14	2	1.5	21	3.6	2	31	3.3	3.0	52	5.6
2A-OPM-02	1	12	2	2.5	22	2.4	4	35.5	5.6	10.0	76	7.7
2A-OPM-03	2	15	3	6	32.5	4	12	55.5	9	13.5	87.5	13.3
2A-OPM-04	2	16	2.8	.	.	.	.	.	.	.	.	.
2A-OPM-05	5	18	2.5	5	31	4.5	15	63.5	8.3	13.5	93	12.5
2B-OPM-01	2	14	2	1	21	3	1.5	22.5	2.6	0.5	28.5	4.5
2B-OPM-02	3	13.5	2.4	1	10	2.7	2	16.5	2.4	1.5	20	3.7
2B-OPM-03	2	16	2.5	.	.	.	.	.	.	.	.	.
2B-OPM-04	2	15.5	2.7	2	19.5	2.5	2	21.5	3.7	.	.	.
2B-OPM-05	5	18	3.8	.	.	.	.	.	.	.	.	.
4A-OPM-01	3	15	3	2.5	27	2.5	2	28	3.4	2.0	32	6
4A-OPM-02	1	16.5	2.5	2	21	2.9	2	23.5	3.1	2.5	28	3.5
4A-OPM-03	2	11	2.7	0	12	2.2	0.5	16	2.5	.	.	.
4A-OPM-04	1	14	2.5	2	18	1.9	2.5	28	3.4	1.5	34.5	4
4A-OPM-05	2.5	14	2.3	2.5	23.5	2.8	2	29	3.7	2.0	38	5.8
4B-OPM-01	1	13.5	2.3	.	.	.	.	.	.	.	.	.
4B-OPM-02	2	14.5	2.9	4	26.5	3.9	4	40	5	5.0	68.5	4.7
4B-OPM-03	2	13.5	2.2	.	.	.	.	.	.	.	.	.
4B-OPM-04	4	16.5	2.7	2	26.5	3.2	4	44.5	5.8	8.0	71	6.8
4B-OPM-05	2	11	2.5	2.5	23	2.9	4	36	5.2	4.0	63.5	7.5
1A-ORB-01	3	27	3	3.5	29	3.3	5.5	31	3.43	.	.	.
1A-ORB-02	2	25	2.8	3	26.5	2.3	2	28	2.84	3.0	28	3.2
1A-ORB-03	1.5	28	2.8	3	30.1	2.8	3	36.5	3.91	6.5	50	4.2
1B-ORB-01	2	26.5	3.1	4	31	3.7	8	53	6.32	.	.	.
1B-ORB-02	1.5	24.5	2.9	1	26.5	3.3	6	49	4.14	11.5	81.5	7.1
1B-ORB-03	1	27	3.3	5	31.5	3.4	4	30	4.5	.	.	.
2A-ORB-01	2	30	3	.	.	.	.	.	.	.	.	.
2A-ORB-02	0	25	1.9	.	.	.	.	.	.	.	.	.

2A-ORB-03	1	23	3.5	2.5	27.5	4.3	6.5	38	4.5	.	.	.
2A-ORB-04	1	25	2.5	.	.	.	.	.	.	.	.	.
2A-ORB-05	2	27	2.3	.	.	.	.	.	.	.	.	.
2B-ORB-01	1	21	2.3	.	.	.	.	.	.	.	.	.
2B-ORB-02	2	23.5	3.3	.	.	.	.	.	.	.	.	.
2B-ORB-03	4.7	17.5	2.8	.	.	.	4.5	23	2	.	.	.
2B-ORB-04	3	13	2.2	.	.	.	.	.	.	.	.	.
4A-ORB-01	2	23.5	2.5	1.5	24.5	2.8	1.5	25.5	3.5	2.0	25.5	3.3
4A-ORB-02	4.5	29.5	3.3	3.5	29	3.5	3.5	30	3.9	2.0	31	4.6
4A-ORB-03	4.5	28	4	2	28	3.8	3	28	4.4	.	.	.
4A-ORB-04	3	24	2.9	1	22.5	2.3	1	23	4.2	0.5	23	3.1
4B-ORB-01	2	24	2.9	1	24	2.4	0.5	32	2.8	2.0	46	3.9
4B-ORB-02	3.5	27	2.9	.	.	.	.	.	.	.	.	.
4B-ORB-03	1.5	24	2.5	1	26	2.6	1	24.5	3.3	.	.	.
4B-ORB-04	3	25	2.8	.	.	.	.	.	.	.	.	.

## 8.8 SEEDED PLANTS

Tag numbers incorporate plot number, subplot letter, species abbreviation, and seedling number. Plots 1A, 2B, 3A, 4A, 5A, and 6B are control plots; 1B, 2A, 3B, 4B, 5B, and 6A are gap plots. W, X, Y, Z refer to 40x40 cm subplots at which level the leaf litter removal (NL) treatment was applied; L refers to subplots in which leaf litter was not removed. Aipaca refers to *Aiphanes acanthophylla*; Premon to *Prestoea montana*. 'Ht' is height from ground to the point where the first leaf separates from the stem; 'Leaf length' is the length of the plant from ground level to tip of longest leaf; basal diameter of stem base was measured above soil or litter layer. Empty spaces represent dead or missing seedlings.

Tag #	L/NL	Dec 2003			May 2004			December 2004		
		Height (cm)	Leaf length (cm)	Basal diameter (mm)	Height (cm)	Leaf length (cm)	Basal diameter (mm)	Height (cm)	Leaf length (cm)	Basal diameter (mm)
1A-X Aipaca-1	L	1.0	3.0	3.6	2.0	11.0	3.2	1.5	14.0	3.6
1A-X Aipaca-2	L	1.5	3.0	3.4	3.5	11.5	3.0	3.5	13.5	3.8
1A-X Aipaca-3	L	2.0	6.5	3.8	3.0	13.5	3.7	1.5	19.0	6.0
1A-X Aipaca-4	L	1.0	1.5	3.0	3.5	11.5	2.8	1.0	14.5	4.1
1A-Y Aipaca-1	NL	0.5	5.0	3.3	1.5	10.0	3.3	3.0	16.5	3.5
1A-Y Aipaca-2	NL	1.5	5.5	2.9	3.0	13.5	3.3	1.5	21.0	4.2
1A-Y Aipaca-3	NL	1.0	2.0	3.2	2.0	7.0	3.4	2.5	12.0	4.0
1A-Z Aipaca-1	NL	2.5	6.5	3.3	3.5	13.5	4.4	3.0	18.0	5.0
2A-W Aipaca-1	NL	2.0	5.0	2.1	-	-	-	.	.	.
2A-W Aipaca-2	NL	2.0	4.5	2.8	4.0	8.5	4.2	3.0	17.0	5.9
2A-Y Aipaca-1	NL	2.0	9.0	2.2	4.0	14.5	4.0	2.5	29.0	7.8
2A-Y Aipaca-2	NL	2.0	4.5	2.4	2.0	7.5	2.4	3.0	20.0	4.3
2A-Y Aipaca-3	NL	0.5	2.0	2.5	-	-	-	.	.	.
2A-Z Aipaca-1	L	2.5	6.5	3.3	3.5	13.5	4.2	3.0	24.0	5.2
2A-Z Aipaca-2	L	2.0	4.5	2.5	2.5	8.5	2.5	2.0	9.5	3.1
2A-Z Aipaca-3	L	2.5	6.5	2.9	3.5	12.5	3.7	4.0	19.0	6.2
2A-Z Aipaca-4	L	3.0	8.5	3.0	3.5	16.0	3.8	3.0	26.0	5.3
2A-Z Aipaca-5	L	2.5	7.0	3.1	2.5	10.5	2.8	2.0	19.0	3.8
2B-W Aipaca-1	NL	2.0	4.5	3.2	2.0	8.0	2.8	1.5	11.5	3.0
2B-Y Aipaca-1	NL	1.5	6.0	2.5	3.0	11.5	2.7	0.5	12.5	1.6



2B-Y Aipaca-2	NL	2.5	7.0	3.0	3.0	10.0	2.2	.	.	.
3A-W Aipaca-1	L	2.5	7.5	2.8	3.0	13.5	3.9	2.5	17.0	4.5
3A-X Aipaca-1	NL	2.0	7.5	2.1	3.0	15.0	3.5	2.0	21.0	5.2
3A-Z Aipaca-1	NL	2.0	6.5	2.3	2.0	11.0	3.3	2.0	16.5	4.3
3B-X Aipaca-1	L	1.5	4.0	2.0	-	-	-	.	.	.
4A-W Aipaca-1	NL	1.5	5.0	2.4	1.5	10.0	3.2	2.0	10.0	3.1
4A-Y Aipaca-1	NL	2.0	9.0	3.1	2.0	12.0	2.8	2.5	16.5	3.6
4A-Y Aipaca-2	NL	3.0	10.5	3.1	3.0	13.5	2.0	3.0	17.0	4.0
4A-Y Aipaca-3	NL	2.0	6.5	2.3	3.0	11.0	2.7	1.0	15.0	2.3
4A-Z Aipaca-1	L	2.0	7.0	3.3	3.5	13.0	2.9	3.0	14.5	3.6
4A-Z Aipaca-2	L	2.0	5.5	2.5	-	-	-	.	.	.
4B-W Aipaca-1	NL	3.0	8.5	3.8	5.0	17.0	3.8	2.5	36.0	7.0
4B-W Aipaca-2	NL	3.0	5.0	3.6	4.0	11.5	3.5	3.0	22.0	4.4
4B-X Aipaca-1	L	1.0	9.0	2.5	3.0	16.0	2.8	0.5	25.5	5.7
4B-X Aipaca-2	L	2.0	4.5	2.6	3.0	10.5	3.1	3.5	16.0	3.3
4B-X Aipaca-3	L	1.0	6.5	2.5	2.5	16.0	3.5	2.0	23.5	4.7
4B-X Aipaca-4	L	2.0	4.5	2.3	2.0	9.0	3.2	2.0	12.0	2.3
4B-X Aipaca-5	L	2.0	6.0	3.1	3.5	16.5	3.6	3.5	28.5	4.9
4B-Y Aipaca-1	NL	2.0	5.5	2.6	3.0	12.5	2.4	2.0	18.5	3.8
4B-Y Aipaca-2	NL	3.0	7.5	3.4	2.5	11.0	3.4	3.0	18.5	3.2
4B-Y Aipaca-3	NL	1.5	4.0	1.6	0.5	6.5	1.4	1.0	8.0	1.7
4B-Z Aipaca-1	L	3.0	5.5	2.8	3.0	11.0	2.8	3.0	21.0	3.6
4B-Z Aipaca-2	L	2.5	5.5	3.1	2.5	10.0	1.3	2.0	13.0	3.3
4B-Z Aipaca-3	L	2.0	7.0	3.0	4.0	16.0	3.9	3.0	23.0	4.7
5A-W Aipaca-1	NL	2.0	4.5	2.8	2.0	10.5	4.0	2.0	12.0	3.3
5A-W Aipaca-2	NL	2.0	6.5	1.6	2.0	9.5	2.8	1.5	11.5	2.8
5A-W Aipaca-3	NL	2.5	7.0	2.6	3.0	12.0	4.0	2.5	16.5	4.7
5A-X Aipaca-1	L	2.0	7.5	2.7	3.0	12.0	3.3	3.0	12.0	3.5
5A-X Aipaca-2	L	3.0	7.0	2.8	2.5	11.0	3.0	3.5	15.5	3.1
5A-X Aipaca-3	L	2.5	8.5	1.9	2.5	12.5	3.7	3.5	17.0	3.7
5A-Z Aipaca-1	L	1.0	8.5	1.8	2.0	11.0	2.6	3.0	17.0	4.1
5A-Z Aipaca-2	L	2.0	5.0	2.5	2.5	9.5	3.3	5.0	14.5	3.6
5A-Z Aipaca-3	L	2.0	5.0	2.8	3.0	13.0	3.5	3.0	16.5	4.3
5A-Z Aipaca-4	L	2.5	5.0	3.0	2.0	12.5	4.0	3.0	15.5	4.4
5B-W Aipaca-1	NL	3.0	6.0	2.5	3.5	12.0	3.2	3.0	23.5	5.1
5B-W Aipaca-2	NL	2.0	9.0	2.7	2.5	15.5	4.0	3.5	26.5	5.8
5B-W Aipaca-3	NL	2.0	6.5	2.1	3.0	14.5	3.9	3.5	27.0	4.9
5B-W Aipaca-4	NL	2.0	6.0	1.5	2.5	10.0	3.2	3.0	20.0	4.1
5B-W Aipaca-5	NL	2.0	7.0	1.8	3.0	13.0	3.5	2.5	25.0	5.4
5B-W Aipaca-6	NL	3.0	7.0	2.9	2.5	11.0	4.0	3.5	20.0	4.2
5B-W Aipaca-7	NL	2.0	9.0	2.1	2.0	14.5	3.2	1.0	26.0	5.4
5B-W Aipaca-8	NL	1.5	7.0	1.9	2.5	12.5	3.6	3.5	19.0	4.0
5B-X Aipaca-1	L	3.0	12.0	3.3	2.5	20.0	4.5	1.0	47.5	8.4
5B-X Aipaca-2	L	3.0	10.5	2.7	5.5	22.0	5.4	5.0	48.5	9.5
5B-Y Aipaca-1	NL	3.0	7.5	2.7	4.5	15.5	4.0	2.0	28.5	6.9
5B-Y Aipaca-2	NL	5.0	10.0	2.7	4.0	17.0	4.3	.	.	.
5B-Y Aipaca-3	NL	3.0	8.0	2.2	4.0	17.5	3.7	5.5	20.5	2.9
5B-Y Aipaca-4	NL	1.0	7.0	1.4	3.5	18.0	3.2	2.0	28.5	5.7
1A-W Premon-1	NL	4.0	14.5	3.0	5.0	20.0	3.6	5.5	22.5	5.4
1A-X Premon-1	L	5.5	10.0	3.0	3.5	15.5	3.1	5.0	22.5	4.9
1A-X Premon-2	L	4.5	11.5	3.4	-	-	-	.	.	.
1A-X Premon-3	L	3.5	5.0	2.8	4.0	15.5	3.7	.	.	.

1A-Y Premon-1	NL	3.5	10.5	3.4	4.5	20.5	3.5	4.0	21.0	4.5
1A-Y Premon-2	NL	3.0	14.0	2.5	3.5	20.0	3.4	5.0	26.0	4.8
1A-Y Premon-3	NL	3.5	14.5	3.2	4.5	21.0	3.4	4.0	22.0	4.3
1A-Y Premon-4	NL	4.0	10.5	2.8	5.0	23.0	3.2	5.0	17.0	4.2
1A-Y Premon-5	NL	2.5	6.5	1.8	3.0	14.5	3.0	4.5	11.0	4.5
1A-Y Premon-6	NL	3.5	19.5	2.6	4.5	21.0	3.3	5.0	17.0	4.3
1A-Y Premon-7	NL	2.5	8.5	2.5	3.5	15.0	3.1	3.0	12.5	3.5
1A-Z Premon-1	L	4.0	14.0	3.0	5.0	22.0	3.8	7.0	29.0	4.4
1A-Z Premon-2	L	3.5	17.5	2.8	4.5	19.5	3.8	5.5	25.5	4.3
1A-Z Premon-3	L	4.0	15.0	3.0	5.0	24.5	4.6	5.5	25.0	4.4
1A-Z Premon-4	L	2.0	5.5	2.4	2.5	8.0	2.5	3.5	14.5	4.0
1A-Z Premon-5	L	4.0	13.5	3.0	4.5	19.0	3.2	5.0	24.0	4.0
1A-Z Premon-6	L	5.0	10.0	3.4	4.5	22.0	3.8	4.5	27.0	4.3
1A-Z Premon-7	L	3.5	16.0	3.0	4.0	19.0	4.0	4.0	24.0	4.8
1A-Z Premon-8	L	4.0	7.0	3.1	6.0	23.0	3.5	4.0	24.5	4.7
1A-Z Premon-9	L	4.5	17.5	3.3	4.0	20.0	3.1	5.0	24.0	4.5
1A-Z Premon-10	L	4.5	11.5	4.1	6.0	22.0	3.9	5.0	25.0	4.2
1A-Z Premon-11	L	4.0	19.5	2.6	4.5	22.0	3.4	4.0	23.0	4.4
1B-W Premon-1	L	5.5	22.5	4.0	6.5	31.0	6.4	9.5	55.0	8.3
1B-W Premon-2	L	4.5	8.0	3.2	4.5	14.0	3.5	4.5	18.0	5.2
1B-W Premon-3	L	4.0	15.5	3.4	5.0	27.0	4.9	6.5	38.0	6.5
1B-W Premon-4	L	3.5	11.5	3.1	8.0	28.0	5.9	6.5	46.0	7.5
1B-X Premon-1	NL	5.0	18.0	3.4	6.5	24.5	5.6	10.5	52.0	7.3
1B-X Premon-2	NL	3.5	20.0	3.1	5.0	30.0	4.9	6.5	55.5	7.3
1B-X Premon-3	NL	4.0	20.5	4.0	7.5	31.5	5.4	2.5	31.5	5.6
1B-X Premon-4	NL	5.0	20.5	3.7	6.5	29.0	6.0	7.5	58.5	7.6
1B-X Premon-5	NL	5.0	22.5	3.2	7.5	32.0	5.0	7.5	61.5	8.2
1B-X Premon-6	NL	0.5	9.0	3.9	4.0	15.0	4.1	5.5	23.0	4.6
1B-X Premon-7	NL	5.0	20.0	3.2	6.5	34.0	6.8	7.0	64.5	8.3
1B-X Premon-8	NL	6.0	22.0	4.0	7.5	38.0	8.0	8.5	61.0	6.2
1B-X Premon-9	NL	5.5	21.0	2.7	7.0	32.0	5.2	7.0	57.0	8.9
1B-Z Premon-1	NL	5.0	20.0	3.8	5.5	26.5	5.5	5.5	45.5	7.6
1B-Z Premon-2	NL	5.5	20.0	2.6	6.5	30.0	5.9	7.0	46.0	7.3
1B-Z Premon-3	NL	6.5	15.5	3.5	6.5	26.5	5.6	5.5	44.0	6.9
1B-Z Premon-4	NL	0.5	1.0	1.9	3.0	11.0	2.4	2.5	21.5	3.3
2A-W Premon-1	NL	4.5	22.0	3.6	8.5	39.5	8.3	7.5	65.5	15.6
2A-W Premon-2	NL	4.5	18.0	4.4	7.5	29.5	7.3	10.0	71.0	12.9
2A-W Premon-3	NL	7.0	24.5	3.2	8.0	33.5	6.2	7.5	80.5	10.4
2A-W Premon-4	NL	7.0	24.0	4.0	9.0	33.5	6.7	13.5	67.0	12.6
2A-W Premon-5	NL	7.5	31.5	3.9	10.0	48.5	7.8	14.0	87.0	12.8
2A-W Premon-6	NL	4.5	15.0	4.0	5.5	23.0	5.9	10.0	70.0	11.2
2A-W Premon-7	NL	4.5	22.0	3.0	9.0	37.0	5.7	10.5	66.0	8.0
2A-W Premon-8	NL	4.0	16.0	5.6	10.0	39.5	8.1	11.0	89.0	15.6
2A-W Premon-9	NL	6.0	18.0	4.0	7.0	27.5	7.0	11.0	67.0	9.8
2A-X Premon-1	L	5.0	17.0	4.3	9.5	36.0	6.8	13.0	82.0	12.4
2A-X Premon-2	L	4.0	15.0	3.5	8.0	31.5	6.5	2.0	49.0	10.2
2A-X Premon-3	L	4.0	18.0	4.2	8.0	32.0	5.9	12.0	62.5	9.8
2A-X Premon-4	L	5.5	10.0	3.7	6.5	36.0	5.8	13.0	76.0	6.6
2A-X Premon-5	L	6.0	17.0	2.8	6.5	25.0	5.0	7.0	40.5	6.5
2A-X Premon-6	L	5.0	12.0	3.6	6.0	25.5	4.7	8.0	44.5	7.4
2A-X Premon-7	L	4.5	16.0	2.9	8.5	30.0	5.0	9.5	67.5	9.2
2A-X Premon-8	L	4.5	20.0	3.4	7.5	29.0	5.2	8.5	72.0	12.5

2A-X Premon-9	L	7.5	21.5	3.2	8.5	34.0	5.4	3.0	66.0	10.1
2A-X Premon-10	L	7.0	19.0	2.9	10.0	31.5	5.0	5.5	69.0	10.6
2A-X Premon-11	L	5.5	14.0	3.5	7.5	27.0	4.7	.	.	.
2A-Y Premon-1	NL	5.5	22.2	5.1	8.0	32.0	6.4	3.5	46.0	7.6
2A-Y Premon-2	NL	3.0	9.0	1.9	-	-	-	.	.	.
2A-Y Premon-3	NL	2.5	10.0	3.8	5.0	15.0	4.4	6.0	24.0	4.4
2A-Y Premon-4	NL	4.5	16.5	3.8	6.5	24.0	4.8	6.5	37.0	5.4
2A-Y Premon-5	NL	4.0	21.0	5.4	8.5	41.5	5.3	13.5	65.0	8.2
2A-Y Premon-6	NL	3.0	9.5	4.3	5.0	23.0	4.0	5.0	27.0	4.5
2A-Y Premon-7	NL	5.0	20.5	3.7	8.0	30.5	5.1	6.5	39.5	8.5
2A-Y Premon-8	NL	3.5	13.5	3.6	5.0	20.5	4.4	7.0	31.0	4.4
2A-Y Premon-9	NL	6.5	20.0	3.8	8.0	35.5	5.3	8.5	72.5	7.3
2A-Y Premon-10	NL	4.5	21.5	4.5	-	-	-	.	.	.
2A-Y Premon-11	NL	6.5	22.5	3.5	10.0	41.0	4.8	6.5	57.0	6.4
2A-Y Premon-12	NL	5.5	25.0	3.6	10.5	41.0	5.4	11.0	44.0	7.1
2A-Z Premon-1	L	5.5	25.0	3.6	7.5	33.5	4.3	.	.	.
2A-Z Premon-2	L	5.0	21.5	3.3	7.5	34.0	5.2	7.0	35.0	6.6
2A-Z Premon-3	L	4.0	14.5	3.5	-	-	-	.	.	.
2A-Z Premon-4	L	8.0	25.5	3.7	9.0	37.5	6.8	7.0	54.0	9.0
2A-Z Premon-5	L	7.5	26.5	3.3	9.0	34.0	5.5	7.0	75.5	8.7
2A-Z Premon-6	L	5.0	11.0	3.3	-	-	-	.	.	.
2A-Z Premon-7	L	4.0	16.0	3.3	6.5	27.0	6.0	6.5	49.5	9.9
2A-Z Premon-8	L	5.0	16.0	3.0	8.0	28.0	5.6	7.0	55.0	10.1
2A-Z Premon-9	L	6.0	24.5	3.1	7.5	31.0	5.2	8.0	51.0	7.1
2A-Z Premon-10	L	5.5	9.5	3.3	2.0	11.5	2.4	.	.	.
2A-Z Premon-11	L	7.5	27.0	3.7	9.0	35.5	6.0	.	.	.
2A-Z Premon-12	L	6.0	26.0	3.5	9.0	38.0	5.0	10.0	65.0	7.1
2A-Z Premon-13	L	6.0	21.0	2.9	8.0	36.5	4.9	6.0	37.0	6.5
2A-Z Premon-14	L	5.0	21.0	3.5	6.0	27.5	5.4	6.0	42.0	8.2
2B-W Premon-1	NL	4.5	13.0	2.4	3.5	17.0	2.7	.	.	.
2B-W Premon-2	NL	5.0	14.0	3.3	0.0	-	-	.	.	.
2B-W Premon-3	NL	4.5	19.5	3.2	4.0	21.0	3.1	4.5	27.5	4.1
2B-W Premon-4	NL	6.0	15.0	3.3	5.5	21.5	4.5	.	.	.
2B-W Premon-5	NL	3.0	7.0	1.8	2.0	8.0	1.5	1.5	9.0	2.6
2B-X Premon-1	L	2.0	8.0	2.1	4.0	14.5	2.4	3.5	18.0	3.3
2B-X Premon-2	L	4.0	12.0	2.9	4.5	21.0	3.0	4.0	23.5	3.5
2B-X Premon-3	L	3.5	15.0	3.6	4.5	19.0	3.4	.	.	.
2B-X Premon-4	L	4.0	11.0	2.0	4.0	18.5	2.5	.	.	.
2B-X Premon-5	L	4.0	12.5	2.4	4.5	16.0	2.5	.	.	.
2B-Y Premon-1	NL	2.5	10.0	2.0	2.5	17.5	3.1	3.0	23.3	4.2
2B-Y Premon-2	NL	5.5	18.0	3.4	5.0	20.0	3.6	4.5	26.5	4.8
2B-Y Premon-3	NL	2.0	10.5	2.2	2.5	13.0	2.4	2.0	19.0	2.8
2B-Y Premon-4	NL	3.0	6.5	3.4	3.0	12.0	2.7	.	.	.
2B-Y Premon-5	NL	3.0	5.5	2.3	4.5	17.0	3.2	.	.	.
2B-Y Premon-6	NL	4.5	4.5	3.7	3.5	10.5	3.8	3.0	11.5	3.8
2B-Z Premon-1	L	1.0	12.5	3.0	4.5	16.5	3.1	.	.	.
2B-Z Premon-2	L	4.5	17.0	2.6	4.5	21.0	2.4	4.5	24.0	3.8
2B-Z Premon-3	L	6.0	17.5	3.8	6.0	25.5	4.0	5.5	29.0	5.6
2B-Z Premon-4	L	4.5	19.5	2.4	4.5	22.0	3.0	3.5	23.0	4.4
2B-Z Premon-5	L	4.5	15.0	3.3	5.0	20.0	2.8	5.0	24.5	4.0
2B-Z Premon-6	L	3.5	5.5	2.3	-	-	-	.	.	.
3A-W Premon-1	L	5.0	23.0	3.3	5.5	26.0	3.7	5.0	33.0	5.0

3A-W Premon-2	L	4.0	23.0	2.6	4.5	26.0	4.3	5.5	31.0	5.0
3A-W Premon-3	L	5.5	15.5	3.4	6.0	24.5	4.6	5.5	24.0	5.9
3A-W Premon-4	L	5.0	21.0	3.6	5.5	24.0	5.0	6.0	32.0	4.8
3A-W Premon-5	L	4.5	19.5	2.6	4.5	27.0	3.6	5.5	37.0	5.3
3A-W Premon-6	L	5.5	21.0	3.1	5.0	26.5	3.9	6.5	38.5	6.5
3A-W Premon-7	L	6.0	19.0	2.6	6.0	27.5	3.7	4.0	36.0	4.6
3A-W Premon-8	L	4.5	19.0	3.9	5.0	26.0	4.1	7.0	31.5	5.6
3A-W Premon-9	L	5.5	26.0	3.2	7.0	29.5	3.8	6.5	32.5	4.7
3A-W Premon-10	L	5.0	24.0	3.2	6.0	28.5	4.5	6.0	34.5	5.5
3A-W Premon-11	L	5.5	26.0	3.7	6.0	29.0	4.9	6.0	42.5	6.4
3A-X Premon-1	NL	4.5	18.5	3.6	5.0	22.5	3.7	5.0	28.0	5.5
3A-X Premon-2	NL	6.5	20.0	2.9	5.5	30.5	4.9	7.0	45.5	5.8
3A-X Premon-3	NL	5.0	18.5	3.2	5.0	21.5	3.7	3.0	30.5	5.3
3A-X Premon-4	NL	6.0	23.5	3.9	6.5	31.0	4.2	6.5	43.5	7.4
3A-X Premon-5	NL	6.0	19.5	3.5	6.5	29.5	3.4	5.0	29.0	4.5
3A-X Premon-6	NL	5.5	25.0	3.0	7.0	31.0	5.1	5.5	45.0	6.7
3A-Y Premon-1	L	6.0	22.0	3.1	5.0	26.0	5.0	5.0	25.0	4.1
3A-Y Premon-2	L	3.5	7.0	2.1	3.0	11.5	2.5	6.0	13.0	3.8
3A-Y Premon-3	L	5.5	21.0	3.2	5.0	25.5	3.5	5.0	27.0	3.9
3A-Y Premon-4	L	6.0	26.0	3.8	6.0	30.0	4.6	7.0	36.0	6.2
3A-Y Premon-5	L	5.0	19.5	2.9	5.0	22.0	3.7	5.5	30.0	4.2
3A-Y Premon-6	L	5.0	21.0	3.1	7.0	29.5	3.8	6.5	38.0	6.0
3A-Y Premon-7	L	6.5	18.0	4.0	6.0	24.0	4.5	5.5	29.0	6.6
3A-Y Premon-8	L	9.0	24.5	3.5	5.0	25.0	3.6	4.0	24.0	4.2
3A-Z Premon-1	NL	4.5	20.0	3.1	5.0	26.0	4.8	5.5	33.0	5.1
3A-Z Premon-2	NL	3.5	17.0	3.5	6.0	27.5	4.9	6.5	30.0	4.9
3A-Z Premon-3	NL	4.0	16.5	4.1	4.5	20.0	3.9	5.0	28.5	5.1
3A-Z Premon-4	NL	3.5	18.5	2.3	3.5	20.0	3.4	4.0	31.0	5.0
3B-W Premon-1	NL	5.0	24.0	3.8	6.5	35.0	4.4	5.0	48.0	6.7
3B-W Premon-2	NL	4.0	24.5	3.9	6.0	27.0	4.0	8.5	42.0	6.6
3B-W Premon-3	NL	6.0	27.0	4.4	9.0	34.5	5.7	7.0	66.5	8.1
3B-W Premon-4	NL	5.0	19.0	4.1	6.0	34.0	5.8	5.5	40.5	6.9
3B-W Premon-5	NL	5.0	20.0	3.9	8.0	32.0	5.8	.	.	.
3B-W Premon-6	NL	4.0	21.0	3.3	5.0	29.0	3.8	5.0	52.5	5.9
3B-W Premon-7	NL	6.0	26.0	3.7	7.5	34.5	5.5	7.0	60.5	5.9
3B-W Premon-8	NL	4.0	21.0	3.0	6.0	33.0	3.7	6.0	51.0	5.2
3B-W Premon-9	NL	6.0	26.0	2.6	6.0	34.0	3.9	6.5	45.0	5.1
3B-W Premon-10	NL	5.5	20.0	2.7	5.0	32.5	5.0	6.5	37.5	5.2
3B-W Premon-11	NL	5.5	22.5	3.8	6.0	25.5	4.0	6.5	39.5	4.6
3B-W Premon-12	NL	5.5	25.5	4.0	8.0	35.5	5.4	9.5	59.0	7.3
3B-W Premon-13	NL	6.0	22.0	3.6	7.0	31.0	4.4	6.0	45.5	6.1
3B-X Premon-1	L	3.0	20.0	3.0	8.0	29.0	4.2	8.5	46.5	4.4
3B-X Premon-2	L	6.0	25.0	3.1	6.5	34.5	5.5	6.5	58.5	5.6
3B-X Premon-3	L	5.0	19.0	3.2	6.0	31.0	3.8	8.0	37.5	4.2
3B-X Premon-4	L	5.0	13.0	3.0	8.0	22.5	4.3	6.5	26.0	4.1
3B-X Premon-5	L	4.5	15.0	3.0	4.5	27.0	3.3	3.5	41.0	4.0
3B-X Premon-6	L	6.0	25.0	3.0	7.0	40.0	5.0	6.5	60.0	7.4
3B-X Premon-7	L	5.5	25.0	3.2	11.0	42.5	6.0	.	.	.
3B-X Premon-8	L	4.5	15.0	2.2	7.0	29.5	3.7	.	.	.
3B-X Premon-9	L	6.0	17.0	2.3	-	-	-	.	.	.
3B-X Premon-10	L	4.0	23.0	4.0	10.0	33.0	4.7	6.0	49.0	6.1
3B-X Premon-11	L	7.0	27.5	2.7	10.0	40.5	5.0	7.5	59.5	6.2

3B-X Premon-12	L	6.0	25.0	3.7	6.5	36.0	5.2	5.5	53.5	6.8
3B-X Premon-13	L	6.0	24.0	3.3	6.0	38.5	4.2	8.5	33.0	3.9
3B-Y Premon-1	NL	5.0	20.5	3.5	7.0	37.0	5.0	3.5	60.5	6.5
3B-Y Premon-2	NL	5.0	23.0	3.0	11.0	40.5	5.2	11.5	80.5	7.4
3B-Y Premon-3	NL	5.5	18.0	3.0	7.0	41.0	5.4	7.0	59.0	7.3
3B-Y Premon-4	NL	5.0	24.0	3.4	9.0	37.0	5.4	5.5	50.0	6.0
3B-Y Premon-5	NL	4.5	24.0	3.6	6.5	40.0	6.2	9.5	77.5	9.3
3B-Y Premon-6	NL	4.0	17.0	3.4	6.0	31.0	5.5	4.5	31.5	5.7
3B-Y Premon-7	NL	5.5	25.0	4.2	7.5	38.0	5.3	6.5	46.5	7.8
3B-Y Premon-8	NL	5.5	23.0	3.6	6.5	38.0	5.0	7.0	51.0	6.4
3B-Y Premon-9	NL	3.0	17.0	2.8	8.5	37.5	5.3	9.5	59.5	5.9
3B-Z Premon-1	L	5.0	23.0	3.9	8.0	35.0	5.9	3.5	78.0	9.0
3B-Z Premon-2	L	5.5	24.0	4.3	8.0	36.0	5.8	9.0	69.0	9.9
3B-Z Premon-3	L	5.5	24.0	2.9	7.0	38.0	5.0	5.5	74.5	7.6
3B-Z Premon-4	L	5.0	15.0	3.8	6.0	26.0	3.5	9.0	32.0	4.5
3B-Z Premon-5	L	5.0	22.5	4.0	8.0	35.0	5.5	8.5	68.0	7.3
3B-Z Premon-6	L	4.0	16.0	2.9	6.0	26.5	3.8	4.5	40.0	4.7
3B-Z Premon-7	L	5.5	21.0	3.5	6.0	25.0	5.4	4.5	39.0	4.4
3B-Z Premon-8	L	7.0	24.0	3.0	7.0	32.5	5.0	6.0	61.0	6.8
3B-Z Premon-9	L	6.0	20.0	2.7	8.0	32.0	4.4	6.5	54.5	5.6
3B-Z Premon-10	L	6.5	22.5	3.1	7.0	34.5	4.8	10.5	53.5	6.9
4A-W Premon-1	NL	4.0	19.0	2.3	3.5	26.0	3.6	3.0	25.5	4.0
4A-W Premon-2	NL	4.0	20.0	2.8	5.0	23.0	4.2	4.5	23.0	3.9
4A-W Premon-3	NL	3.5	17.5	3.1	6.0	20.5	4.0	5.5	26.0	4.0
4A-W Premon-4	NL	4.0	15.0	3.5	5.0	21.5	4.2	5.0	27.0	5.4
4A-W Premon-5	NL	3.5	16.0	2.6	5.5	22.5	3.8	5.0	25.0	5.1
4A-W Premon-6	NL	3.5	16.0	3.3	5.5	24.0	3.6	5.0	27.0	3.9
4A-W Premon-7	NL	4.0	17.0	3.2	6.0	25.0	4.0	5.5	28.0	4.5
4A-W Premon-8	NL	3.5	19.0	2.8	6.0	25.0	3.8	6.0	29.0	4.2
4A-X Premon-1	L	5.0	15.5	3.7	6.0	21.0	4.0	3.5	20.5	3.9
4A-X Premon-2	L	4.0	17.5	2.8	4.0	24.0	4.1	5.0	30.0	5.1
4A-X Premon-3	L	4.5	21.5	2.6	4.5	24.0	3.1	5.0	30.5	4.0
4A-X Premon-4	L	4.5	20.0	3.1	5.0	22.0	3.6	5.5	30.0	4.8
4A-X Premon-5	L	2.5	12.0	2.4	4.5	24.0	3.5	5.5	27.0	4.9
4A-X Premon-6	L	4.0	16.0	2.8	5.5	24.5	3.7	4.5	27.0	4.9
4A-Y Premon-1	NL	4.0	19.0	4.2	5.5	25.0	3.9	6.0	26.0	5.0
4A-Y Premon-2	NL	4.0	18.0	3.1	4.5	23.0	3.9	6.0	26.5	4.7
4A-Y Premon-3	NL	3.0	14.0	2.8	4.5	24.0	3.0	5.0	29.5	4.3
4A-Y Premon-4	NL	2.0	11.0	2.7	5.0	19.5	3.3	.	.	.
4A-Y Premon-5	NL	5.0	17.0	2.8	6.0	27.5	3.5	7.0	34.5	5.1
4A-Z Premon-1	L	4.0	16.0	2.8	5.0	20.5	3.5	5.0	23.0	4.7
4A-Z Premon-2	L	4.5	14.5	3.1	5.0	21.5	3.0	5.0	26.5	3.5
4A-Z Premon-3	L	5.0	20.0	4.2	7.5	25.0	4.0	7.5	29.0	4.6
4A-Z Premon-4	L	4.0	10.0	2.7	5.0	18.0	3.4	3.5	24.0	4.0
4A-Z Premon-5	L	5.5	21.5	3.3	5.0	24.5	3.6	3.5	23.0	3.9
4B-W Premon-1	NL	3.5	12.5	3.0	-	-	-	5.0	32.0	7.0
4B-W Premon-2	NL	4.0	11.0	2.8	4.0	24.0	4.0	4.0	46.0	7.5
4B-W Premon-3	NL	1.0	5.5	3.0	-	-	-	.	.	.
4B-W Premon-4	NL	5.0	16.0	3.8	5.0	23.0	5.8	5.0	38.0	6.8
4B-W Premon-5	NL	4.0	12.0	3.0	-	-	-	.	.	.
4B-W Premon-6	NL	4.5	6.0	3.3	-	-	-	.	.	.
4B-W Premon-7	NL	4.5	17.0	3.7	4.0	21.5	3.8	4.0	26.0	4.2

4B-W Premon-8	NL	5.5	18.5	3.7	-	-	-	.	.	.
4B-W Premon-9	NL	5.0	21.0	3.3	6.0	30.5	5.5	3.0	46.5	5.8
4B-W Premon-10	NL	5.5	19.0	3.4	4.5	22.5	4.2	4.0	36.0	5.6
4B-W Premon-11	NL	6.5	21.0	3.5	6.5	28.5	5.4	6.0	45.5	7.5
4B-X Premon-1	L	4.5	21.5	2.7	9.0	33.5	5.4	4.5	78.0	7.3
4B-X Premon-2	L	5.0	19.0	2.8	8.5	34.0	5.2	7.0	67.0	8.2
4B-X Premon-3	L	4.0	13.5	2.7	6.0	31.5	5.0	6.0	72.0	8.0
4B-X Premon-4	L	4.0	16.5	2.7	4.5	29.0	4.8	8.0	77.5	7.3
4B-X Premon-5	L	4.5	19.5	4.5	8.0	31.0	7.0	6.5	67.0	10.9
4B-X Premon-6	L	3.5	16.0	2.9	6.5	30.0	5.4	5.0	84.5	10.0
4B-X Premon-7	L	5.0	23.5	3.3	8.0	33.0	7.0	10.0	82.0	10.2
4B-X Premon-8	L	4.5	23.0	3.4	6.5	28.0	4.9	6.0	84.0	8.4
4B-X Premon-9	L	3.0	8.0	2.3	1.5	12.0	3.5	.	.	.
4B-Y Premon-1	NL	5.5	28.5	3.7	7.5	37.5	5.5	9.0	45.0	6.9
4B-Y Premon-2	NL	5.0	20.0	3.8	7.0	27.0	4.4	6.0	40.0	5.8
4B-Y Premon-3	NL	4.5	21.0	3.1	6.5	31.0	5.1	5.5	45.0	6.8
4B-Y Premon-4	NL	4.0	19.0	3.3	5.0	26.0	4.2	5.0	36.5	5.5
4B-Y Premon-5	NL	5.0	23.0	2.9	5.5	28.0	4.1	6.5	44.5	5.3
4B-Y Premon-6	NL	5.0	24.0	2.7	6.5	27.5	3.7	7.0	39.5	5.2
4B-Y Premon-7	NL	4.0	13.0	2.4	4.5	19.0	2.9	4.0	29.0	3.5
4B-Y Premon-8	NL	5.0	21.0	2.8	6.0	33.0	4.1	5.0	48.5	6.1
4B-Y Premon-9	NL	4.5	24.0	3.2	7.0	32.0	6.2	6.5	44.0	8.6
4B-Y Premon-10	NL	5.5	21.5	3.6	6.5	28.5	5.5	5.0	38.0	6.4
4B-Y Premon-11	NL	3.5	19.5	3.2	-	-	-	.	.	.
4B-Y Premon-12	NL	5.0	9.5	2.4	5.5	24.0	3.8	5.0	34.0	5.0
4B-Y Premon-13	NL	5.5	21.0	3.0	-	-	-	.	.	.
4B-Z Premon-1	L	5.0	12.5	2.0	1.5	19.0	3.0	3.0	35.5	4.3
4B-Z Premon-2	L	5.0	22.5	2.8	5.5	24.0	3.8	4.0	44.0	6.3
4B-Z Premon-3	L	4.5	16.0	1.9	0.0	-	-	.	.	.
4B-Z Premon-4	L	5.0	18.5	3.4	5.5	28.5	4.1	4.0	38.0	7.0
5A-W Premon-1	NL	4.5	11.0	2.9	5.0	13.5	3.6	4.0	12.5	3.5
5A-W Premon-2	NL	4.0	19.0	2.4	4.5	21.0	2.3	4.0	20.0	3.2
5A-W Premon-3	NL	4.5	9.5	2.7	4.0	18.5	3.2	4.5	22.0	3.3
5A-W Premon-4	NL	4.0	7.0	3.3	3.5	18.5	3.8	4.0	18.5	3.5
5A-W Premon-5	NL	4.0	15.5	2.6	5.0	16.5	3.7	5.5	20.0	3.6
5A-W Premon-6	NL	2.5	7.5	2.4	2.5	4.0	3.2	.	.	.
5A-W Premon-7	NL	6.5	21.5	2.9	5.5	23.5	3.3	5.0	24.5	4.1
5A-W Premon-8	NL	3.5	9.5	2.5	3.0	12.0	3.0	3.0	16.5	3.5
5A-W Premon-9	NL	2.0	4.0	2.2	3.5	17.0	3.8	3.5	22.5	3.7
5A-X Premon-1	L	4.0	17.0	2.5	4.0	23.0	3.5	.	.	.
5A-X Premon-2	L	5.0	19.5	3.4	5.0	25.5	4.3	5.0	26.0	5.5
5A-X Premon-3	L	5.0	13.5	3.5	5.0	19.0	4.5	5.5	17.0	4.5
5A-Y Premon-1	NL	4.5	19.5	2.5	4.5	21.0	3.5	3.0	21.0	3.5
5A-Y Premon-2	NL	5.0	16.5	3.0	-	-	-	.	.	.
5A-Y Premon-3	NL	4.0	11.5	2.5	-	-	-	.	.	.
5A-Y Premon-4	NL	5.0	20.5	3.0	-	-	-	.	.	.
5A-Z Premon-1	L	3.5	15.0	2.6	3.5	16.0	3.3	4.0	20.5	3.4
5A-Z Premon-2	L	4.0	13.0	2.2	-	-	-	.	.	.
5A-Z Premon-3	L	3.5	8.0	2.6	-	-	-	.	.	.
5A-Z Premon-4	L	6.0	17.0	2.4	4.0	19.5	3.5	4.0	24.0	3.9
5A-Z Premon-5	L	4.0	15.5	2.0	5.0	20.0	3.2	4.0	21.0	5.2
5A-Z Premon-6	L	2.0	8.0	2.3	3.0	11.5	2.5	.	.	.

5A-Z Premon-7	L	5.0	20.0	2.6	5.0	23.5	3.4	5.5	26.5	3.8
5B-W Premon-1	NL	2.5	10.5	2.6	5.5	21.5	4.7	.	.	.
5B-W Premon-2	NL	7.5	17.0	2.8	6.0	25.0	5.0	9.0	50.5	6.5
5B-W Premon-3	NL	8.0	21.0	3.0	5.0	26.0	5.5	.	.	.
5B-W Premon-4	NL	3.5	11.0	2.4	4.5	19.0	4.0	.	.	.
5B-W Premon-5	NL	5.0	18.5	2.4	5.5	24.0	4.3	8.5	33.0	6.3
5B-W Premon-6	NL	4.5	15.0	2.4	6.0	26.0	4.6	.	.	.
5B-W Premon-7	NL	5.0	21.0	3.0	6.0	28.0	5.5	9.5	33.0	5.8
5B-W Premon-8	NL	4.0	14.0	2.6	5.0	20.5	3.8	.	.	.
5B-W Premon-9	NL	3.5	9.0	3.0	5.0	18.0	4.0	5.5	26.0	4.9
5B-W Premon-10	NL	4.5	14.0	3.3	5.0	21.0	4.5	5.5	30.5	6.4
5B-W Premon-11	NL	3.0	6.0	2.6	3.5	15.5	3.5	3.5	22.0	4.2
5B-W Premon-12	NL	4.5	18.5	2.9	6.0	28.0	4.8	5.0	31.5	7.4
5B-W Premon-13	NL	5.5	9.5	3.4	5.0	22.5	4.7	8.0	34.5	6.2
5B-W Premon-14	NL	4.0	8.5	2.2	4.5	23.5	3.8	6.0	42.5	6.2
5B-X Premon-1	L	3.5	19.0	2.4	7.5	32.0	4.8	7.0	40.5	6.6
5B-X Premon-2	L	4.0	16.5	1.7	6.0	31.5	4.5	.	.	.
5B-X Premon-3	L	6.0	22.5	2.0	6.5	32.0	5.7	5.5	14.0	6.4
5B-X Premon-4	L	5.0	14.0	2.0	-	-	-	5.5	32.5	6.4
5B-X Premon-5	L	5.0	16.0	3.0	6.0	27.5	5.0	5.0	34.5	5.8
5B-X Premon-6	L	5.0	17.5	2.3	7.5	29.5	4.2	6.5	40.5	6.2
5B-X Premon-7	L	4.0	17.5	2.0	2.0	26.0	3.5	5.0	39.0	4.5
5B-X Premon-8	L	5.0	18.0	2.9	6.0	24.0	3.8	5.5	39.5	7.3
5B-X Premon-9	L	5.0	20.0	2.8	6.0	25.0	4.1	6.5	36.5	8.1
5B-Y Premon-1	NL	3.0	11.0	2.0	6.5	28.0	4.7	.	.	.
5B-Y Premon-2	NL	4.5	20.0	2.8	7.0	26.0	4.7	.	.	.
5B-Y Premon-3	NL	8.0	22.0	2.2	8.0	40.5	5.4	7.5	78.0	10.1
5B-Y Premon-4	NL	4.0	18.0	3.2	6.5	23.5	5.4	5.0	48.5	6.0
5B-Y Premon-5	NL	5.0	15.5	1.8	4.5	16.5	3.5	4.0	31.0	5.1
5B-Y Premon-6	NL	5.0	24.0	2.5	7.0	27.0	4.0	6.5	58.5	7.6
5B-Y Premon-7	NL	8.0	20.5	2.5	5.0	20.5	3.7	4.5	40.5	5.5
5B-Y Premon-8	NL	7.0	24.5	3.4	7.0	33.5	6.6	8.0	65.0	10.6
5B-Y Premon-9	NL	7.5	25.5	3.2	7.0	38.0	5.5	7.5	75.5	10.4
5B-Y Premon-10	NL	3.5	7.5	1.2	-	-	-	.	.	.
5B-Y Premon-11	NL	6.5	12.5	2.2	4.0	16.0	3.2	3.0	26.5	4.3
5B-Z Premon-1	L	5.0	22.0	3.3	6.0	28.0	4.5	5.5	52.5	8.0
5B-Z Premon-2	L	6.0	22.0	2.2	4.0	26.0	3.2	6.0	41.0	5.3
5B-Z Premon-3	L	6.0	16.5	1.7	3.3	24.5	4.2	4.5	25.0	3.5
5B-Z Premon-4	L	6.0	16.0	2.7	4.5	20.0	3.2	5.5	35.5	6.2
5B-Z Premon-5	L	5.5	11.0	1.9	4.5	12.5	2.4	3.5	16.0	3.1
5B-Z Premon-6	L	6.0	26.5	2.6	5.5	31.5	3.7	4.5	38.5	5.8
5B-Z Premon-7	L	4.0	11.0	2.5	-	-	-	.	.	.
6A-W Premon-1	L	2.0	6.0	3.3	6.0	22.0	4.5	5.0	44.5	6.6
6A-W Premon-2	L	2.0	11.0	2.6	4.0	29.0	4.0	3.0	54.0	6.8
6A-W Premon-3	L	5.0	11.0	2.5	6.5	26.0	4.9	4.5	52.0	6.7
6A-W Premon-4	L	1.0	5.0	3.6	7.0	26.5	5.6	7.0	49.0	7.2
6A-W Premon-5	L	2.0	4.5	3.4	3.5	22.0	4.4	3.5	34.5	4.8
6A-W Premon-6	L	5.0	9.0	3.7	7.0	31.5	5.4	6.5	56.0	11.9
6A-X Premon-1	NL	5.0	20.0	2.8	8.0	31.0	5.4	9.0	62.0	9.4
6A-Y Premon-1	L	4.0	7.5	2.2	4.0	15.0	3.4	3.0	22.0	3.1
6A-Y Premon-2	L	3.0	13.0	2.5	4.0	27.0	3.8	3.0	39.5	4.5
6A-Y Premon-3	L	4.0	19.0	2.1	4.0	31.0	3.7	2.5	44.5	4.6

6A-Y Premon-4	L	5.0	11.5	2.2	4.5	26.5	4.9	3.0	39.0	3.8
6A-Y Premon-5	L	4.5	8.0	3.2	4.0	20.5	3.4	3.0	24.5	3.6
6A-Y Premon-6	L	4.5	16.0	3.0	6.0	26.0	4.6	4.5	40.0	5.0
6A-Y Premon-7	L	5.0	23.0	3.8	7.0	30.5	6.1	3.5	51.0	6.3
6A-Y Premon-8	L	3.5	13.5	2.0	5.5	24.5	3.4	3.0	35.5	4.5
6A-Z Premon-1	NL	3.0	19.0	2.5	5.0	32.0	4.6	6.0	45.0	5.2
6A-Z Premon-2	NL	3.5	20.0	3.2	7.5	30.0	6.5	4.5	63.5	6.8
6A-Z Premon-3	NL	6.5	20.0	2.8	5.5	26.0	4.0	3.5	36.0	4.8
6A-Z Premon-4	NL	3.0	13.5	2.0	4.5	23.0	3.7	3.5	37.0	4.8
6A-Z Premon-5	NL	6.0	13.5	2.5	3.5	18.5	3.4	3.0	40.5	4.5
6A-Z Premon-6	NL	5.0	15.5	1.5	5.0	22.5	3.1	4.0	41.0	4.6
6B-Y Premon-1	NL	5.0	21.0	3.0	6.5	26.5	4.4	3.5	28.0	6.1
6B-Y Premon-2	NL	2.5	7.5	2.7	5.0	19.0	4.0	3.0	24.5	5.0
6B-Z Premon-1	L	5.5	22.0	2.7	5.0	26.0	4.8	4.5	33.5	5.9

## 8.9 BASAL AREA SUMMARY AND REDUCTION

Basal area in m<sup>2</sup> per hectare is calculated from the estimated DBH (diameter at breast height, 1.4 m) of all trees > 2 m tall within 400 m<sup>2</sup> plots (m<sup>2</sup>/ha = ((area of individual tree (cm<sup>2</sup>) / 10,000) \* 25) averaged over all trees within each plot). Plots 1A, 2B, 3A, 4A, 5A, and 6B are control plots; 1B, 2A, 3B, 4B, 5B, and 6A are gap plots in which all exotic trees >5cm DBH were girdled and treated with herbicide to kill them.

Plot	Basal Area (m <sup>2</sup> /ha)	Basal Area Reduction (m <sup>2</sup> /ha)	% Reduction	# Trees girdled
1A	40.40	0.00		
1B	51.99	46.81	90.0	61
2A	46.64	41.02	88.0	37
2B	33.77	0.00		
3A	42.14	0.00		
3B	50.43	47.73	94.6	40
4A	37.79	0.00		
4B	56.28	51.34	91.2	25
5A	47.16	0.00		
5B	43.54	37.62	86.4	43
6A	55.51	49.25	88.7	30
6B	61.51	0.00		
AVG	47.26	45.6	89.8	39.3



## 8.10 BASAL AREA JULY 2003

Basal area in m<sup>2</sup> per hectare was calculated from the estimated DBH (diameter at breast height, 1.4 m) of all trees > 2 m tall within 400 m<sup>2</sup> plots (m<sup>2</sup>/ha = ((area of individual tree (cm<sup>2</sup>) / 10,000) \* 25)). Plots 1A, 2B, 3A, 4A, 5A, and 6B are control plots; 1B, 2A, 3B, 4B, 5B, and 6A are gap plots in which all exotic trees >5cm DBH were girdled (g) and treated with herbicide to kill them. For ease of data collection, plots were divided into 10x10 m quadrants. Quad 1 contains the NE corner of the whole plot, Quad 2 the SE corner, Quad 3 the SW corner and Quad 4 the SE corner.

Plot	Quad	Species	native/ exotic	DBH (cm)	Basal Area (cm <sup>2</sup> )	m <sup>2</sup> /ha	Girdled (g)
1A	1	Andira inermis	native	2	3.14	0.0079	
1A	1	Calophyllum calaba	native	1	0.79	0.0020	
1A	1	Calophyllum calaba	native	2	3.14	0.0079	
1A	1	Calophyllum calaba	native	2	3.14	0.0079	
1A	1	Calophyllum calaba	native	3	7.07	0.0177	
1A	1	Calophyllum calaba	native	8	50.27	0.1257	
1A	1	Dendropanax arboreus	native	2	3.14	0.0079	
1A	1	Dendropanax arboreus	native	3	7.07	0.0177	
1A	1	Dendropanax arboreus	native	3	7.07	0.0177	
1A	1	Dendropanax arboreus	native	14	153.94	0.3848	
1A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1A	1	Hibiscus elatus	exotic	2	3.14	0.0079	
1A	1	Hibiscus elatus	exotic	2	3.14	0.0079	
1A	1	Hibiscus elatus	exotic	2	3.14	0.0079	
1A	1	Hibiscus elatus	exotic	2	3.14	0.0079	
1A	1	Hibiscus elatus	exotic	3	7.07	0.0177	
1A	1	Hibiscus elatus	exotic	3	7.07	0.0177	
1A	1	Hibiscus elatus	exotic	3	7.07	0.0177	
1A	1	Hibiscus elatus	exotic	3	7.07	0.0177	
1A	1	Hibiscus elatus	exotic	3	7.07	0.0177	
1A	1	Hibiscus elatus	exotic	3	7.07	0.0177	
1A	1	Hibiscus elatus	exotic	5	19.63	0.0491	
1A	1	Hibiscus elatus	exotic	6	28.27	0.0707	
1A	1	Hibiscus elatus	exotic	6	28.27	0.0707	
1A	1	Hibiscus elatus	exotic	7	38.48	0.0962	
1A	1	Hibiscus elatus	exotic	7	38.48	0.0962	

1A	1	Hibiscus elatus	exotic	8	50.27	0.1257
1A	1	Hibiscus elatus	exotic	8	50.27	0.1257
1A	1	Hibiscus elatus	exotic	8	50.27	0.1257
1A	1	Hibiscus elatus	exotic	17	226.98	0.5675
1A	1	Hibiscus elatus	exotic	24	452.39	1.1310
1A	1	Hibiscus elatus	exotic	27	572.56	1.4314
1A	1	Hibiscus elatus	exotic	31	754.77	1.8869
1A	1	Hibiscus elatus	exotic	37	1075.21	2.6880
1A	1	Spathodea campanulata	exotic	20	314.16	0.7854
1A	1	Syzygium malaccense	exotic	2	3.14	0.0079
1A	1	Thouinia striata	native	3	7.07	0.0177
1A	2	Allophylla crasinervis	native	2	3.14	0.0079
1A	2	Andira inermis	native	1	0.79	0.0020
1A	2	Andira inermis	native	1	0.79	0.0020
1A	2	Andira inermis	native	10	78.54	0.1963
1A	2	Andira inermis	native	11	95.03	0.2376
1A	2	Andira inermis	native	12	113.10	0.2827
1A	2	Calophyllum calaba	native	1	0.79	0.0020
1A	2	Calophyllum calaba	native	1	0.79	0.0020
1A	2	Calophyllum calaba	native	1	0.79	0.0020
1A	2	Calophyllum calaba	native	1	0.79	0.0020
1A	2	Calophyllum calaba	native	1	0.79	0.0020
1A	2	Calophyllum calaba	native	1	0.79	0.0020
1A	2	Calophyllum calaba	native	1	0.79	0.0020
1A	2	Calophyllum calaba	native	1	0.79	0.0020
1A	2	Calophyllum calaba	native	1	0.79	0.0020
1A	2	Calophyllum calaba	native	2	3.14	0.0079
1A	2	Calophyllum calaba	native	2	3.14	0.0079
1A	2	Calophyllum calaba	native	3	7.07	0.0177
1A	2	Comocladia glabra	native	2	3.14	0.0079
1A	2	Comocladia glabra	native	2	3.14	0.0079
1A	2	Dendropanax arboreus	native	1	0.79	0.0020
1A	2	Dendropanax arboreus	native	2	3.14	0.0079
1A	2	Dendropanax arboreus	native	2	3.14	0.0079
1A	2	Dendropanax arboreus	native	2	3.14	0.0079
1A	2	Dendropanax arboreus	native	4	12.57	0.0314
1A	2	Dendropanax arboreus	native	17	226.98	0.5675
1A	2	Erythrina poeppigiana	exotic	2	3.14	0.0079
1A	2	Eugenia monticola	native	1	0.79	0.0020
1A	2	Hibiscus elatus	exotic	1	0.79	0.0020
1A	2	Hibiscus elatus	exotic	1	0.79	0.0020
1A	2	Hibiscus elatus	exotic	1	0.79	0.0020
1A	2	Hibiscus elatus	exotic	1	0.79	0.0020
1A	2	Hibiscus elatus	exotic	1	0.79	0.0020
1A	2	Hibiscus elatus	exotic	1	0.79	0.0020



1A	2	Hibiscus elatus	exotic	8	50.27	0.1257
1A	2	Hibiscus elatus	exotic	13	132.73	0.3318
1A	2	Hibiscus elatus	exotic	16	201.06	0.5027
1A	2	Hibiscus elatus	exotic	22	380.13	0.9503
1A	2	Hibiscus elatus	exotic	26	530.93	1.3273
1A	2	Hibiscus elatus	exotic	27	572.56	1.4314
1A	2	Hibiscus elatus	exotic	33	855.30	2.1382
1A	2	Hibiscus elatus	exotic	46	1661.90	4.1548
1A	2	Spathodea campanulata	exotic	11	95.03	0.2376
1A	2	Thouinia striata	native	1	0.79	0.0020
1A	2	Thouinia striata	native	2	3.14	0.0079
1A	2	Thouinia striata	native	15	176.71	0.4418
1A	3	Andira inermis	native	1	0.79	0.0020
1A	3	Andira inermis	native	1	0.79	0.0020
1A	3	Andira inermis	native	3	7.07	0.0177
1A	3	Calophyllum calaba	native	1	0.79	0.0020
1A	3	Calophyllum calaba	native	1	0.79	0.0020
1A	3	Calophyllum calaba	native	1	0.79	0.0020
1A	3	Calophyllum calaba	native	2	3.14	0.0079
1A	3	Calophyllum calaba	native	4	12.57	0.0314
1A	3	Calophyllum calaba	native	11	95.03	0.2376
1A	3	Dendropanax arboreus	native	1	0.79	0.0020
1A	3	Dendropanax arboreus	native	2	3.14	0.0079
1A	3	Dendropanax arboreus	native	3	7.07	0.0177
1A	3	Dendropanax arboreus	native	3	7.07	0.0177
1A	3	Dendropanax arboreus	native	5	19.63	0.0491
1A	3	Dendropanax arboreus	native	5	19.63	0.0491
1A	3	Eugenia biflora	native	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	1	0.79	0.0020
1A	3	Hibiscus elatus	exotic	2	3.14	0.0079
1A	3	Hibiscus elatus	exotic	2	3.14	0.0079

1A	3	Hibiscus elatus	exotic	2	3.14	0.0079
1A	3	Hibiscus elatus	exotic	2	3.14	0.0079
1A	3	Hibiscus elatus	exotic	2	3.14	0.0079
1A	3	Hibiscus elatus	exotic	2	3.14	0.0079
1A	3	Hibiscus elatus	exotic	2	3.14	0.0079
1A	3	Hibiscus elatus	exotic	2	3.14	0.0079
1A	3	Hibiscus elatus	exotic	2	3.14	0.0079
1A	3	Hibiscus elatus	exotic	2	3.14	0.0079
1A	3	Hibiscus elatus	exotic	2	3.14	0.0079
1A	3	Hibiscus elatus	exotic	2	3.14	0.0079
1A	3	Hibiscus elatus	exotic	3	7.07	0.0177
1A	3	Hibiscus elatus	exotic	3	7.07	0.0177
1A	3	Hibiscus elatus	exotic	3	7.07	0.0177
1A	3	Hibiscus elatus	exotic	3	7.07	0.0177
1A	3	Hibiscus elatus	exotic	3	7.07	0.0177
1A	3	Hibiscus elatus	exotic	3	7.07	0.0177
1A	3	Hibiscus elatus	exotic	3	7.07	0.0177
1A	3	Hibiscus elatus	exotic	3	7.07	0.0177
1A	3	Hibiscus elatus	exotic	3	7.07	0.0177
1A	3	Hibiscus elatus	exotic	3	7.07	0.0177
1A	3	Hibiscus elatus	exotic	4	12.57	0.0314
1A	3	Hibiscus elatus	exotic	5	19.63	0.0491
1A	3	Hibiscus elatus	exotic	5	19.63	0.0491
1A	3	Hibiscus elatus	exotic	5	19.63	0.0491
1A	3	Hibiscus elatus	exotic	5	19.63	0.0491
1A	3	Hibiscus elatus	exotic	6	28.27	0.0707
1A	3	Hibiscus elatus	exotic	6	28.27	0.0707
1A	3	Hibiscus elatus	exotic	8	50.27	0.1257
1A	3	Hibiscus elatus	exotic	23	415.48	1.0387
1A	3	Hibiscus elatus	exotic	24	452.39	1.1310
1A	3	Hibiscus elatus	exotic	32	804.25	2.0106
1A	3	Prestoea montana	native	12	113.10	0.2827
1A	3	Syzygium jambos	exotic	6	28.27	0.0707
1A	3	Syzygium jambos	exotic	8	50.27	0.1257
1A	3	Thouinia striata	native	1	0.79	0.0020
1A	3	Thouinia striata	native	4	12.57	0.0314
1A	4	Andira inermis	native	1	0.79	0.0020
1A	4	Andira inermis	native	1	0.79	0.0020
1A	4	Calophyllum calaba	native	1	0.79	0.0020
1A	4	Calophyllum calaba	native	1	0.79	0.0020
1A	4	Calophyllum calaba	native	2	3.14	0.0079
1A	4	Calophyllum calaba	native	2	3.14	0.0079
1A	4	Calophyllum calaba	native	4	12.57	0.0314
1A	4	Calophyllum calaba	native	7	38.48	0.0962

1A	4	Dendropanax arboreus	native	2	3.14	0.0079
1A	4	Dendropanax arboreus	native	2	3.14	0.0079
1A	4	Dendropanax arboreus	native	3	7.07	0.0177
1A	4	Dendropanax arboreus	native	3	7.07	0.0177
1A	4	Dendropanax arboreus	native	5	19.63	0.0491
1A	4	Dendropanax arboreus	native	8	50.27	0.1257
1A	4	Erythrina poeppigiana	exotic	2	3.14	0.0079
1A	4	Ficus citrifolia	native	3	7.07	0.0177
1A	4	Hibiscus elatus	exotic	1	0.79	0.0020
1A	4	Hibiscus elatus	exotic	1	0.79	0.0020
1A	4	Hibiscus elatus	exotic	1	0.79	0.0020
1A	4	Hibiscus elatus	exotic	1	0.79	0.0020
1A	4	Hibiscus elatus	exotic	2	3.14	0.0079
1A	4	Hibiscus elatus	exotic	2	3.14	0.0079
1A	4	Hibiscus elatus	exotic	2	3.14	0.0079
1A	4	Hibiscus elatus	exotic	2	3.14	0.0079
1A	4	Hibiscus elatus	exotic	2	3.14	0.0079
1A	4	Hibiscus elatus	exotic	3	7.07	0.0177
1A	4	Hibiscus elatus	exotic	3	7.07	0.0177
1A	4	Hibiscus elatus	exotic	3	7.07	0.0177
1A	4	Hibiscus elatus	exotic	3	7.07	0.0177
1A	4	Hibiscus elatus	exotic	3	7.07	0.0177
1A	4	Hibiscus elatus	exotic	3	7.07	0.0177
1A	4	Hibiscus elatus	exotic	3	7.07	0.0177
1A	4	Hibiscus elatus	exotic	3	7.07	0.0177
1A	4	Hibiscus elatus	exotic	4	12.57	0.0314
1A	4	Hibiscus elatus	exotic	4	12.57	0.0314
1A	4	Hibiscus elatus	exotic	5	19.63	0.0491
1A	4	Hibiscus elatus	exotic	6	28.27	0.0707
1A	4	Hibiscus elatus	exotic	6	28.27	0.0707
1A	4	Hibiscus elatus	exotic	8	50.27	0.1257
1A	4	Hibiscus elatus	exotic	8	50.27	0.1257
1A	4	Hibiscus elatus	exotic	9	63.62	0.1590
1A	4	Hibiscus elatus	exotic	12	113.10	0.2827
1A	4	Hibiscus elatus	exotic	14	153.94	0.3848
1A	4	Hibiscus elatus	exotic	30	706.86	1.7671
1A	4	Hibiscus elatus	exotic	31	754.77	1.8869
1A	4	Hibiscus elatus	exotic	32	804.25	2.0106
1A	4	Hibiscus elatus	exotic	38	1134.11	2.8353
1A	4	Inga fagifolia	native	7	38.48	0.0962
1A	4	Inga vera	native	1	0.79	0.0020
1A	4	Inga vera	native	2	3.14	0.0079
1A	4	Inga vera	native	12	113.10	0.2827
1A	4	Syzygium malaccense	exotic	2	3.14	0.0079

1A	4	<i>Tabebuia heterophylla</i>	native	1	0.79	0.0020
1A	4	<i>Thouinia striata</i>	native	1	0.79	0.0020
1B	1	<i>Andira inermis</i>	native	1	0.79	0.0020
1B	1	<i>Andira inermis</i>	native	1	0.79	0.0020
1B	1	<i>Andira inermis</i>	native	1	0.79	0.0020
1B	1	<i>Andira inermis</i>	native	2	3.14	0.0079
1B	1	<i>Andira inermis</i>	native	2	3.14	0.0079
1B	1	<i>Andira inermis</i>	native	2	3.14	0.0079
1B	1	<i>Andira inermis</i>	native	2	3.14	0.0079
1B	1	<i>Andira inermis</i>	native	3	7.07	0.0177
1B	1	<i>Andira inermis</i>	native	3	7.07	0.0177
1B	1	<i>Andira inermis</i>	native	3	7.07	0.0177
1B	1	<i>Calophyllum calaba</i>	native	1	0.79	0.0020
1B	1	<i>Calophyllum calaba</i>	native	1	0.79	0.0020
1B	1	<i>Calophyllum calaba</i>	native	1	0.79	0.0020
1B	1	<i>Calophyllum calaba</i>	native	1	0.79	0.0020
1B	1	<i>Calophyllum calaba</i>	native	1	0.79	0.0020
1B	1	<i>Calophyllum calaba</i>	native	1	0.79	0.0020
1B	1	<i>Calophyllum calaba</i>	native	1	0.79	0.0020
1B	1	<i>Calophyllum calaba</i>	native	1	0.79	0.0020
1B	1	<i>Calophyllum calaba</i>	native	1	0.79	0.0020
1B	1	<i>Calophyllum calaba</i>	native	1	0.79	0.0020
1B	1	<i>Calophyllum calaba</i>	native	2	3.14	0.0079
1B	1	<i>Calophyllum calaba</i>	native	2	3.14	0.0079
1B	1	<i>Calophyllum calaba</i>	native	2	3.14	0.0079
1B	1	<i>Calophyllum calaba</i>	native	2	3.14	0.0079
1B	1	<i>Calophyllum calaba</i>	native	2	3.14	0.0079
1B	1	<i>Calophyllum calaba</i>	native	2	3.14	0.0079
1B	1	<i>Calophyllum calaba</i>	native	2	3.14	0.0079
1B	1	<i>Calophyllum calaba</i>	native	2	3.14	0.0079
1B	1	<i>Calophyllum calaba</i>	native	2	3.14	0.0079
1B	1	<i>Calophyllum calaba</i>	native	2	3.14	0.0079
1B	1	<i>Calophyllum calaba</i>	native	2	3.14	0.0079
1B	1	<i>Calophyllum calaba</i>	native	3	7.07	0.0177
1B	1	<i>Calophyllum calaba</i>	native	7	38.48	0.0962
1B	1	<i>Casearia decandra</i>	native	1	0.79	0.0020
1B	1	<i>Casearia sylvestris</i>	native	2	3.14	0.0079
1B	1	<i>Casearia sylvestris</i>	native	4	12.57	0.0314
1B	1	<i>Cestrum macrophyllum</i>	native	1	0.79	0.0020
1B	1	<i>Cestrum macrophyllum</i>	native	2	3.14	0.0079
1B	1	<i>Chinanthus dominguensis</i>	native	1	0.79	0.0020
1B	1	<i>Cocoloba peltata</i>	native	3	7.07	0.0177
1B	1	<i>Cocoloba peltata</i>	native	4	12.57	0.0314
1B	1	<i>Comocladia glabra</i>	native	3	7.07	0.0177
1B	1	<i>Cordia nitida</i>	native	1	0.79	0.0020
1B	1	<i>Dendropanax arboreus</i>	native	1	0.79	0.0020
1B	1	<i>Dendropanax arboreus</i>	native	1	0.79	0.0020

1B	1	Dendropanax arboreus	native	1	0.79	0.0020	
1B	1	Dendropanax arboreus	native	1	0.79	0.0020	
1B	1	Dendropanax arboreus	native	1	0.79	0.0020	
1B	1	Dendropanax arboreus	native	1	0.79	0.0020	
1B	1	Dendropanax arboreus	native	2	3.14	0.0079	
1B	1	Dendropanax arboreus	native	2	3.14	0.0079	
1B	1	Dendropanax arboreus	native	2	3.14	0.0079	
1B	1	Dendropanax arboreus	native	3	7.07	0.0177	
1B	1	Dendropanax arboreus	native	3	7.07	0.0177	
1B	1	Dendropanax arboreus	native	5	19.63	0.0491	
1B	1	Erythrina poeppigiana	exotic	4	12.57	0.0314	
1B	1	Erythrina poeppigiana	exotic	5	19.63	0.0491	
1B	1	Eugenia biflora	native	2	3.14	0.0079	
1B	1	Hibiscus elatus	exotic	3	7.07	0.0177	g
1B	1	Hibiscus elatus	exotic	6	28.27	0.0707	g
1B	1	Hibiscus elatus	exotic	7	38.48	0.0962	g
1B	1	Hibiscus elatus	exotic	7	38.48	0.0962	g
1B	1	Hibiscus elatus	exotic	7	38.48	0.0962	g
1B	1	Hibiscus elatus	exotic	9	63.62	0.1590	g
1B	1	Hibiscus elatus	exotic	10	78.54	0.1963	g
1B	1	Hibiscus elatus	exotic	10	78.54	0.1963	g
1B	1	Hibiscus elatus	exotic	11	95.03	0.2376	g
1B	1	Hibiscus elatus	exotic	11	95.03	0.2376	g
1B	1	Hibiscus elatus	exotic	11	95.03	0.2376	g
1B	1	Hibiscus elatus	exotic	13	132.73	0.3318	g
1B	1	Hibiscus elatus	exotic	14	153.94	0.3848	g
1B	1	Hibiscus elatus	exotic	17	226.98	0.5675	g
1B	1	Hibiscus elatus	exotic	22	380.13	0.9503	g
1B	1	Hibiscus elatus	exotic	25	490.87	1.2272	g
1B	1	Hibiscus elatus	exotic	26	530.93	1.3273	g
1B	1	Hibiscus elatus	exotic	31	754.77	1.8869	g
1B	1	Hibiscus elatus	exotic	31	754.77	1.8869	g
1B	1	Hibiscus elatus	exotic	32	804.25	2.0106	g
1B	1	Hibiscus elatus	exotic	44	1520.53	3.8013	g
1B	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	1	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	1	Hibiscus elatus	exotic	2	3.14	0.0079	
1B	1	Hibiscus elatus	exotic	2	3.14	0.0079	



1B	1	Hibiscus elatus	exotic	2	3.14	0.0079
1B	1	Hibiscus elatus	exotic	2	3.14	0.0079
1B	1	Hibiscus elatus	exotic	3	7.07	0.0177
1B	1	Hibiscus elatus	exotic	3	7.07	0.0177
1B	1	Hibiscus elatus	exotic	3	7.07	0.0177
1B	1	Hibiscus elatus	exotic	3	7.07	0.0177
1B	1	Hibiscus elatus	exotic	3	7.07	0.0177
1B	1	Hibiscus elatus	exotic	4	12.57	0.0314
1B	1	Hibiscus elatus	exotic	4	12.57	0.0314
1B	1	Hibiscus elatus	exotic	4	12.57	0.0314
1B	1	Hibiscus elatus	exotic	4	12.57	0.0314
1B	1	Inga vera	native	5	19.63	0.0491
1B	1	Inga vera	native	7	38.48	0.0962
1B	1	Ocotea patens	native	1	0.79	0.0020
1B	1	Sideroxylon portoricensis	native	1	0.79	0.0020
1B	1	Syzygium jambos	exotic	1	0.79	0.0020
1B	1	Syzygium jambos	exotic	2	3.14	0.0079
1B	1	Syzygium jambos	exotic	3	7.07	0.0177
1B	1	Syzygium jambos	exotic	4	12.57	0.0314
1B	1	Syzygium jambos	exotic	4	12.57	0.0314
1B	1	Syzygium jambos	exotic	5	19.63	0.0491
1B	1	Syzygium jambos	exotic	6	28.27	0.0707
1B	1	Thouinia striata	native	2	3.14	0.0079
1B	2	Andira inermis	native	1	0.79	0.0020
1B	2	Andira inermis	native	1	0.79	0.0020
1B	2	Andira inermis	native	2	3.14	0.0079
1B	2	Andira inermis	native	3	7.07	0.0177
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020
1B	2	Calophyllum calaba	native	1	0.79	0.0020

1B	2	Calophyllum calaba	native	1	0.79	0.0020	
1B	2	Calophyllum calaba	native	1	0.79	0.0020	
1B	2	Calophyllum calaba	native	1	0.79	0.0020	
1B	2	Calophyllum calaba	native	1	0.79	0.0020	
1B	2	Calophyllum calaba	native	1	0.79	0.0020	
1B	2	Calophyllum calaba	native	1	0.79	0.0020	
1B	2	Calophyllum calaba	native	2	3.14	0.0079	
1B	2	Calophyllum calaba	native	2	3.14	0.0079	
1B	2	Calophyllum calaba	native	3	7.07	0.0177	
1B	2	Calophyllum calaba	native	4	12.57	0.0314	
1B	2	Dendropanax arboreus	native	1	0.79	0.0020	
1B	2	Dendropanax arboreus	native	1	0.79	0.0020	
1B	2	Dendropanax arboreus	native	1	0.79	0.0020	
1B	2	Dendropanax arboreus	native	3	7.07	0.0177	
1B	2	Dendropanax arboreus	native	5	19.63	0.0491	
1B	2	Dendropanax arboreus	native	11	95.03	0.2376	
1B	2	Guarea guidonia	native	4	12.57	0.0314	
1B	2	Guarea guidonia	native	14	153.94	0.3848	
1B	2	Hibiscus elatus	exotic	4	12.57	0.0314	g
1B	2	Hibiscus elatus	exotic	5	19.63	0.0491	g
1B	2	Hibiscus elatus	exotic	7	38.48	0.0962	g
1B	2	Hibiscus elatus	exotic	9	63.62	0.1590	g
1B	2	Hibiscus elatus	exotic	11	95.03	0.2376	g
1B	2	Hibiscus elatus	exotic	11	95.03	0.2376	g
1B	2	Hibiscus elatus	exotic	13	132.73	0.3318	g
1B	2	Hibiscus elatus	exotic	17	226.98	0.5675	g
1B	2	Hibiscus elatus	exotic	17	226.98	0.5675	g
1B	2	Hibiscus elatus	exotic	23	415.48	1.0387	g
1B	2	Hibiscus elatus	exotic	26	530.93	1.3273	g
1B	2	Hibiscus elatus	exotic	35	962.11	2.4053	g
1B	2	Hibiscus elatus	exotic	36	1017.88	2.5447	g
1B	2	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	2	Hibiscus elatus	exotic	3	7.07	0.0177	
1B	2	Inga vera	native	1	0.79	0.0020	
1B	2	Roystonea borinquena	native	15	176.71	0.4418	
1B	3	Andira inermis	native	1	0.79	0.0020	
1B	3	Andira inermis	native	1	0.79	0.0020	
1B	3	Andira inermis	native	1	0.79	0.0020	
1B	3	Andira inermis	native	1	0.79	0.0020	
1B	3	Andira inermis	native	1	0.79	0.0020	
1B	3	Andira inermis	native	1	0.79	0.0020	
1B	3	Andira inermis	native	1	0.79	0.0020	
1B	3	Andira inermis	native	3	7.07	0.0177	
1B	3	Calophyllum calaba	native	1	0.79	0.0020	

1B	3	Calophyllum calaba	native	1	0.79	0.0020	
1B	3	Calophyllum calaba	native	1	0.79	0.0020	
1B	3	Calophyllum calaba	native	1	0.79	0.0020	
1B	3	Calophyllum calaba	native	1	0.79	0.0020	
1B	3	Calophyllum calaba	native	1	0.79	0.0020	
1B	3	Calophyllum calaba	native	1	0.79	0.0020	
1B	3	Calophyllum calaba	native	1	0.79	0.0020	
1B	3	Calophyllum calaba	native	2	3.14	0.0079	
1B	3	Calophyllum calaba	native	2	3.14	0.0079	
1B	3	Calophyllum calaba	native	2	3.14	0.0079	
1B	3	Calophyllum calaba	native	5	19.63	0.0491	
1B	3	Calophyllum calaba	native	8	50.27	0.1257	
1B	3	Cestrum macrophyllum	native	1	0.79	0.0020	
1B	3	Dendropanax arboreus	native	1	0.79	0.0020	
1B	3	Dendropanax arboreus	native	2	3.14	0.0079	
1B	3	Dendropanax arboreus	native	2	3.14	0.0079	
1B	3	Dendropanax arboreus	native	3	7.07	0.0177	
1B	3	Dendropanax arboreus	native	3	7.07	0.0177	
1B	3	Dendropanax arboreus	native	4	12.57	0.0314	
1B	3	Dendropanax arboreus	native	8	50.27	0.1257	
1B	3	Erythrina poeppigiana	exotic	1	0.79	0.0020	
1B	3	Erythrina poeppigiana	exotic	1	0.79	0.0020	
1B	3	Erythrina poeppigiana	exotic	3	7.07	0.0177	
1B	3	Hibiscus elatus	exotic	2	3.14	0.0079	g
1B	3	Hibiscus elatus	exotic	2	3.14	0.0079	g
1B	3	Hibiscus elatus	exotic	3	7.07	0.0177	g
1B	3	Hibiscus elatus	exotic	3	7.07	0.0177	g
1B	3	Hibiscus elatus	exotic	4	12.57	0.0314	g
1B	3	Hibiscus elatus	exotic	6	28.27	0.0707	g
1B	3	Hibiscus elatus	exotic	8	50.27	0.1257	
1B	3	Hibiscus elatus	exotic	8	50.27	0.1257	g
1B	3	Hibiscus elatus	exotic	10	78.54	0.1963	g
1B	3	Hibiscus elatus	exotic	11	95.03	0.2376	g
1B	3	Hibiscus elatus	exotic	12	113.10	0.2827	g
1B	3	Hibiscus elatus	exotic	12	113.10	0.2827	g
1B	3	Hibiscus elatus	exotic	13	132.73	0.3318	g
1B	3	Hibiscus elatus	exotic	22	380.13	0.9503	g
1B	3	Hibiscus elatus	exotic	23	415.48	1.0387	g
1B	3	Hibiscus elatus	exotic	24	452.39	1.1310	g
1B	3	Hibiscus elatus	exotic	24	452.39	1.1310	g
1B	3	Hibiscus elatus	exotic	30	706.86	1.7671	g
1B	3	Hibiscus elatus	exotic	34	907.92	2.2698	g
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020	

1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	1	0.79	0.0020
1B	3	Hibiscus elatus	exotic	2	3.14	0.0079
1B	3	Hibiscus elatus	exotic	2	3.14	0.0079
1B	3	Hibiscus elatus	exotic	2	3.14	0.0079
1B	3	Hibiscus elatus	exotic	2	3.14	0.0079
1B	3	Hibiscus elatus	exotic	2	3.14	0.0079
1B	3	Hibiscus elatus	exotic	2	3.14	0.0079
1B	3	Hibiscus elatus	exotic	3	7.07	0.0177
1B	3	Hibiscus elatus	exotic	3	7.07	0.0177
1B	3	Hibiscus elatus	exotic	3	7.07	0.0177
1B	3	Hibiscus elatus	exotic	3	7.07	0.0177
1B	3	Hibiscus elatus	exotic	4	12.57	0.0314
1B	3	Persea americana	exotic	4	12.57	0.0314
1B	3	Syzygium jambos	exotic	1	0.79	0.0020
1B	3	Syzygium jambos	exotic	6	28.27	0.0707
1B	3	Syzygium jambos	exotic	10	78.54	0.1963
1B	3	Thouinia striata	native	1	0.79	0.0020
1B	3	Thouinia striata	native	1	0.79	0.0020
1B	3	Thouinia striata	native	1	0.79	0.0020
1B	3	Thouinia striata	native	1	0.79	0.0020
1B	3	Thouinia striata	native	2	3.14	0.0079
1B	3	Thouinia striata	native	2	3.14	0.0079
1B	4	Andira inermis	native	1	0.79	0.0020
1B	4	Andira inermis	native	1	0.79	0.0020
1B	4	Andira inermis	native	1	0.79	0.0020
1B	4	Andira inermis	native	1	0.79	0.0020
1B	4	Andira inermis	native	1	0.79	0.0020
1B	4	Andira inermis	native	1	0.79	0.0020
1B	4	Andira inermis	native	1	0.79	0.0020
1B	4	Andira inermis	native	1	0.79	0.0020
1B	4	Ardisia obovata	native	1	0.79	0.0020
1B	4	Calophyllum calaba	native	1	0.79	0.0020

1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	1	0.79	0.0020	
1B	4	Calophyllum calaba	native	2	3.14	0.0079	
1B	4	Calophyllum calaba	native	2	3.14	0.0079	
1B	4	Calophyllum calaba	native	2	3.14	0.0079	
1B	4	Calophyllum calaba	native	2	3.14	0.0079	
1B	4	Calophyllum calaba	native	2	3.14	0.0079	
1B	4	Calophyllum calaba	native	2	3.14	0.0079	
1B	4	Calophyllum calaba	native	2	3.14	0.0079	
1B	4	Calophyllum calaba	native	2	3.14	0.0079	
1B	4	Casearia sylvestris	native	4	12.57	0.0314	
1B	4	Cestrum macrophyllum	native	1	0.79	0.0020	
1B	4	Chionanthus dominguis	native	2	3.14	0.0079	
1B	4	Chionanthus dominguis	native	17	226.98	0.5675	
1B	4	Dendropanax arboreus	native	1	0.79	0.0020	
1B	4	Dendropanax arboreus	native	1	0.79	0.0020	
1B	4	Dendropanax arboreus	native	1	0.79	0.0020	
1B	4	Dendropanax arboreus	native	1	0.79	0.0020	
1B	4	Dendropanax arboreus	native	2	3.14	0.0079	
1B	4	Dendropanax arboreus	native	2	3.14	0.0079	
1B	4	Dendropanax arboreus	native	3	7.07	0.0177	
1B	4	Dendropanax arboreus	native	3	7.07	0.0177	
1B	4	Erythrina poeppigiana	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	5	19.63	0.0491	g
1B	4	Hibiscus elatus	exotic	5	19.63	0.0491	g
1B	4	Hibiscus elatus	exotic	7	38.48	0.0962	g
1B	4	Hibiscus elatus	exotic	10	78.54	0.1963	g
1B	4	Hibiscus elatus	exotic	18	254.47	0.6362	g
1B	4	Hibiscus elatus	exotic	25	490.87	1.2272	g
1B	4	Hibiscus elatus	exotic	27	572.56	1.4314	g

1B	4	Hibiscus elatus	exotic	30	706.86	1.7671	g
1B	4	Hibiscus elatus	exotic	54	2290.22	5.7256	g
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
1B	4	Hibiscus elatus	exotic	2	3.14	0.0079	
1B	4	Hibiscus elatus	exotic	2	3.14	0.0079	
1B	4	Hibiscus elatus	exotic	2	3.14	0.0079	
1B	4	Hibiscus elatus	exotic	2	3.14	0.0079	
1B	4	Hibiscus elatus	exotic	2	3.14	0.0079	
1B	4	Hibiscus elatus	exotic	2	3.14	0.0079	
1B	4	Hibiscus elatus	exotic	3	7.07	0.0177	
1B	4	Hibiscus elatus	exotic	3	7.07	0.0177	
1B	4	Hibiscus elatus	exotic	3	7.07	0.0177	
1B	4	Hibiscus elatus	exotic	3	7.07	0.0177	
1B	4	Hibiscus elatus	exotic	3	7.07	0.0177	
1B	4	Hibiscus elatus	exotic	3	7.07	0.0177	
1B	4	Hibiscus elatus	exotic	3	7.07	0.0177	
1B	4	Hibiscus elatus	exotic	3	7.07	0.0177	
1B	4	Hibiscus elatus	exotic	4	12.57	0.0314	
1B	4	Hibiscus elatus	exotic	4	12.57	0.0314	
1B	4	Hibiscus elatus	exotic	4	12.57	0.0314	
1B	4	Hibiscus elatus	exotic	4	12.57	0.0314	
1B	4	Hibiscus elatus	exotic	4	12.57	0.0314	
1B	4	Hibiscus elatus	exotic	4	12.57	0.0314	
1B	4	Inga vera	native	1	0.79	0.0020	
1B	4	Inga vera	native	3	7.07	0.0177	
1B	4	Inga vera	native	4	12.57	0.0314	
1B	4	Inga vera	native	4	12.57	0.0314	
1B	4	Inga vera	native	8	50.27	0.1257	
1B	4	Syzygium jambos	exotic	2	3.14	0.0079	
1B	4	Syzygium jambos	exotic	3	7.07	0.0177	

1B	4	Syzygium jambos	exotic	3	7.07	0.0177	
1B	4	Syzygium jambos	exotic	3	7.07	0.0177	
1B	4	Syzygium jambos	exotic	3	7.07	0.0177	
1B	4	Syzygium jambos	exotic	4	12.57	0.0314	
1B	4	Syzygium jambos	exotic	5	19.63	0.0491	
1B	4	Tabebuia heterophylla	native	3	7.07	0.0177	
1B	4	Thouinia striata	native	1	0.79	0.0020	
1B	4	Thouinia striata	native	1	0.79	0.0020	
1B	4	Thouinia striata	native	1	0.79	0.0020	
1B	4	Thouinia striata	native	1	0.79	0.0020	
1B	4	Thouinia striata	native	1	0.79	0.0020	
1B	4	Thouinia striata	native	2	3.14	0.0079	
1B	4	Thouinia striata	native	3	7.07	0.0177	
1B	4	Thouinia striata	native	3	7.07	0.0177	
2A	1	Calophyllum calaba	native	1	0.79	0.0020	
2A	1	Calophyllum calaba	native	1	0.79	0.0020	
2A	1	Calophyllum calaba	native	3	7.07	0.0177	
2A	1	Casearia sylvestris	native	1	0.79	0.0020	
2A	1	Casearia sylvestris	native	1	0.79	0.0020	
2A	1	Casearia sylvestris	native	1	0.79	0.0020	
2A	1	Casearia sylvestris	native	3	7.07	0.0177	
2A	1	Casearia sylvestris	native	3	7.07	0.0177	
2A	1	Eugenia biflora	native	1	0.79	0.0020	
2A	1	Faramea occidentalis	native	1	0.79	0.0020	
2A	1	Faramea occidentalis	native	1	0.79	0.0020	
2A	1	Faramea occidentalis	native	1	0.79	0.0020	
2A	1	Faramea occidentalis	native	2	3.14	0.0079	
2A	1	Faramea occidentalis	native	2	3.14	0.0079	
2A	1	Faramea occidentalis	native	2	3.14	0.0079	
2A	1	Faramea occidentalis	native	2	3.14	0.0079	
2A	1	Faramea occidentalis	native	2	3.14	0.0079	
2A	1	Faramea occidentalis	native	2	3.14	0.0079	
2A	1	Faramea occidentalis	native	3	7.07	0.0177	
2A	1	Faramea occidentalis	native	4	12.57	0.0314	
2A	1	Guarea guidonia	native	1	0.79	0.0020	
2A	1	Guarea guidonia	native	2	3.14	0.0079	
2A	1	Hibiscus elatus	exotic	19	283.53	0.7088	g
2A	1	Hibiscus elatus	exotic	37	1075.21	2.6880	g
2A	1	Hibiscus elatus	exotic	39	1194.59	2.9865	g
2A	1	Hibiscus elatus	exotic	42	1385.44	3.4636	g
2A	1	Hibiscus elatus	exotic	44	1520.53	3.8013	g
2A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
2A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
2A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
2A	1	Hibiscus elatus	exotic	2	3.14	0.0079	

2A	1	Hibiscus elatus	exotic	2	3.14	0.0079	
2A	1	Hibiscus elatus	exotic	3	7.07	0.0177	
2A	1	Miconia impetio	native	1	0.79	0.0020	
2A	1	Senna siamea	exotic	29	660.52	1.6513	
2A	1	Senna siamea	exotic	31	754.77	1.8869	
2A	1	Syzygium jambos	exotic	1	0.79	0.0020	
2A	1	Syzygium jambos	exotic	1	0.79	0.0020	
2A	1	Syzygium jambos	exotic	1	0.79	0.0020	
2A	1	Syzygium jambos	exotic	1	0.79	0.0020	
2A	1	Syzygium jambos	exotic	2	3.14	0.0079	
2A	1	Syzygium jambos	exotic	3	7.07	0.0177	
2A	1	Syzygium jambos	exotic	4	12.57	0.0314	
2A	1	Syzygium jambos	exotic	4	12.57	0.0314	
2A	1	Syzygium jambos	exotic	4	12.57	0.0314	
2A	1	Syzygium jambos	exotic	4	12.57	0.0314	
2A	1	Syzygium jambos	exotic	4	12.57	0.0314	
2A	1	Syzygium jambos	exotic	4	12.57	0.0314	
2A	1	Syzygium jambos	exotic	4	12.57	0.0314	
2A	1	Syzygium jambos	exotic	4	12.57	0.0314	
2A	1	Syzygium jambos	exotic	4	12.57	0.0314	
2A	1	Syzygium jambos	exotic	5	19.63	0.0491	
2A	1	Syzygium jambos	exotic	5	19.63	0.0491	
2A	1	Syzygium jambos	exotic	5	19.63	0.0491	
2A	1	Zanthoxylum martinicense	native	2	3.14	0.0079	
2A	2	Calophyllum calaba	native	1	0.79	0.0020	
2A	2	Calophyllum calaba	native	1	0.79	0.0020	
2A	2	Calophyllum calaba	native	1	0.79	0.0020	
2A	2	Casearia sylvestris	native	1	0.79	0.0020	
2A	2	Casearia sylvestris	native	2	3.14	0.0079	
2A	2	Casearia sylvestris	native	3	7.07	0.0177	
2A	2	Casearia sylvestris	native	10	78.54	0.1963	
2A	2	Coccoloba swartzii	native	5	19.63	0.0491	
2A	2	Eugenia biflora	native	2	3.14	0.0079	
2A	2	Eugenia monticola	native	1	0.79	0.0020	
2A	2	Faramea occidentalis	native	2	3.14	0.0079	
2A	2	Faramea occidentalis	native	4	12.57	0.0314	
2A	2	Hibiscus elatus	exotic	1	0.79	0.0020	g
2A	2	Hibiscus elatus	exotic	2	3.14	0.0079	g
2A	2	Hibiscus elatus	exotic	3	7.07	0.0177	g
2A	2	Hibiscus elatus	exotic	6	28.27	0.0707	g
2A	2	Hibiscus elatus	exotic	6	28.27	0.0707	g
2A	2	Hibiscus elatus	exotic	6	28.27	0.0707	g
2A	2	Hibiscus elatus	exotic	7	38.48	0.0962	g
2A	2	Hibiscus elatus	exotic	12	113.10	0.2827	g
2A	2	Hibiscus elatus	exotic	12	113.10	0.2827	g



2A	2	Hibiscus elatus	exotic	14	153.94	0.3848	g
2A	2	Hibiscus elatus	exotic	16	201.06	0.5027	g
2A	2	Hibiscus elatus	exotic	19	283.53	0.7088	g
2A	2	Hibiscus elatus	exotic	26	530.93	1.3273	g
2A	2	Hibiscus elatus	exotic	42	1385.44	3.4636	g
2A	2	Hibiscus elatus	exotic	45	1590.43	3.9761	g
2A	2	Hibiscus elatus	exotic	1	0.79	0.0020	
2A	2	Hibiscus elatus	exotic	1	0.79	0.0020	
2A	2	Hibiscus elatus	exotic	1	0.79	0.0020	
2A	2	Hibiscus elatus	exotic	1	0.79	0.0020	
2A	2	Hibiscus elatus	exotic	1	0.79	0.0020	
2A	2	Hibiscus elatus	exotic	1	0.79	0.0020	
2A	2	Hibiscus elatus	exotic	3	7.07	0.0177	
2A	2	Hibiscus elatus	exotic	4	12.57	0.0314	
2A	2	Miconia lavigata	native	1	0.79	0.0020	
2A	2	Neolaugeria resinosa	native	1	0.79	0.0020	
2A	2	Parathesis crenulata	native	1	0.79	0.0020	
2A	2	Parathesis crenulata	native	1	0.79	0.0020	
2A	2	Parathesis crenulata	native	1	0.79	0.0020	
2A	2	Parathesis crenulata	native	2	3.14	0.0079	
2A	2	Parathesis crenulata	native	2	3.14	0.0079	
2A	2	Parathesis crenulata	native	3	7.07	0.0177	
2A	2	Parathesis crenulata	native	3	7.07	0.0177	
2A	2	Picramnia pentandra	native	1	0.79	0.0020	
2A	2	Pseudolmedia spuria	native	2	3.14	0.0079	
2A	2	Syzygium jambos	exotic	6	28.27	0.0707	
2A	2	Thouinia striata	native	3	7.07	0.0177	
2A	3	Andira inermis	native	2	3.14	0.0079	
2A	3	Andira inermis	native	2	3.14	0.0079	
2A	3	Calophyllum calaba	native	1	0.79	0.0020	
2A	3	Calophyllum calaba	native	2	3.14	0.0079	
2A	3	Casearia sylvestris	native	2	3.14	0.0079	
2A	3	Casearia sylvestris	native	2	3.14	0.0079	
2A	3	Eugenia monticola	native	2	3.14	0.0079	
2A	3	Faramea occidentalis	native	1	0.79	0.0020	
2A	3	Faramea occidentalis	native	1	0.79	0.0020	
2A	3	Hibiscus elatus	exotic	5	19.63	0.0491	g
2A	3	Hibiscus elatus	exotic	5	19.63	0.0491	g
2A	3	Hibiscus elatus	exotic	5	19.63	0.0491	g
2A	3	Hibiscus elatus	exotic	6	28.27	0.0707	g
2A	3	Hibiscus elatus	exotic	6	28.27	0.0707	g
2A	3	Hibiscus elatus	exotic	8	50.27	0.1257	g
2A	3	Hibiscus elatus	exotic	41	1320.25	3.3006	g
2A	3	Hibiscus elatus	exotic	47	1734.94	4.3374	g

2A	3	Hibiscus elatus	exotic	1	0.79	0.0020
2A	3	Hibiscus elatus	exotic	1	0.79	0.0020
2A	3	Hibiscus elatus	exotic	1	0.79	0.0020
2A	3	Hibiscus elatus	exotic	1	0.79	0.0020
2A	3	Hibiscus elatus	exotic	1	0.79	0.0020
2A	3	Hibiscus elatus	exotic	1	0.79	0.0020
2A	3	Hibiscus elatus	exotic	2	3.14	0.0079
2A	3	Hibiscus elatus	exotic	3	7.07	0.0177
2A	3	Hibiscus elatus	exotic	3	7.07	0.0177
2A	3	Hibiscus elatus	exotic	3	7.07	0.0177
2A	3	Hibiscus elatus	exotic	3	7.07	0.0177
2A	3	Hibiscus elatus	exotic	3	7.07	0.0177
2A	3	Hibiscus elatus	exotic	3	7.07	0.0177
2A	3	Hibiscus elatus	exotic	4	12.57	0.0314
2A	3	Hibiscus elatus	exotic	4	12.57	0.0314
2A	3	Hibiscus elatus	exotic	4	12.57	0.0314
2A	3	Hibiscus elatus	exotic	4	12.57	0.0314
2A	3	Parathesis crenulata	native	2	3.14	0.0079
2A	3	Syzygium jambos	exotic	1	0.79	0.0020
2A	3	Syzygium jambos	exotic	2	3.14	0.0079
2A	3	Syzygium jambos	exotic	6	28.27	0.0707
2A	4	Andira inermis	native	1	0.79	0.0020
2A	4	Calophyllum calaba	native	1	0.79	0.0020
2A	4	Calophyllum calaba	native	1	0.79	0.0020
2A	4	Calophyllum calaba	native	1	0.79	0.0020
2A	4	Calophyllum calaba	native	2	3.14	0.0079
2A	4	Calophyllum calaba	native	2	3.14	0.0079
2A	4	Casearia sylvestris	native	1	0.79	0.0020
2A	4	Casearia sylvestris	native	1	0.79	0.0020
2A	4	Casearia sylvestris	native	1	0.79	0.0020
2A	4	Casearia sylvestris	native	2	3.14	0.0079
2A	4	Casearia sylvestris	native	2	3.14	0.0079
2A	4	Casearia sylvestris	native	3	7.07	0.0177
2A	4	Casearia sylvestris	native	3	7.07	0.0177
2A	4	Eugenia monticola	native	2	3.14	0.0079
2A	4	Faramea occidentalis	native	1	0.79	0.0020
2A	4	Faramea occidentalis	native	1	0.79	0.0020
2A	4	Faramea occidentalis	native	1	0.79	0.0020
2A	4	Faramea occidentalis	native	2	3.14	0.0079
2A	4	Faramea occidentalis	native	2	3.14	0.0079
2A	4	Faramea occidentalis	native	2	3.14	0.0079
2A	4	Faramea occidentalis	native	2	3.14	0.0079
2A	4	Faramea occidentalis	native	2	3.14	0.0079
2A	4	Faramea occidentalis	native	2	3.14	0.0079
2A	4	Faramea occidentalis	native	2	3.14	0.0079

2A	4	<i>Guarea guidonia</i>	native	1	0.79	0.0020	
2A	4	<i>Hibiscus elatus</i>	exotic	6	28.27	0.0707	g
2A	4	<i>Hibiscus elatus</i>	exotic	6	28.27	0.0707	g
2A	4	<i>Hibiscus elatus</i>	exotic	7	38.48	0.0962	g
2A	4	<i>Hibiscus elatus</i>	exotic	7	38.48	0.0962	g
2A	4	<i>Hibiscus elatus</i>	exotic	8	50.27	0.1257	g
2A	4	<i>Hibiscus elatus</i>	exotic	10	78.54	0.1963	g
2A	4	<i>Hibiscus elatus</i>	exotic	14	153.94	0.3848	g
2A	4	<i>Hibiscus elatus</i>	exotic	21	346.36	0.8659	g
2A	4	<i>Hibiscus elatus</i>	exotic	37	1075.21	2.6880	g
2A	4	<i>Hibiscus elatus</i>	exotic	42	1385.44	3.4636	g
2A	4	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020	
2A	4	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020	
2A	4	<i>Hibiscus elatus</i>	exotic	3	7.07	0.0177	
2A	4	<i>Hibiscus elatus</i>	exotic	4	12.57	0.0314	
2A	4	<i>Hibiscus elatus</i>	exotic	4	12.57	0.0314	
2A	4	<i>Ocotea patens</i>	native	1	0.79	0.0020	
2A	4	<i>Parathesis crenulata</i>	native	1	0.79	0.0020	
2A	4	<i>Pseudolmedia spuria</i>	native	2	3.14	0.0079	
2A	4	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020	
2A	4	<i>Syzygium jambos</i>	exotic	2	3.14	0.0079	
2A	4	<i>Syzygium jambos</i>	exotic	3	7.07	0.0177	
2A	4	<i>Syzygium jambos</i>	exotic	3	7.07	0.0177	
2A	4	<i>Syzygium jambos</i>	exotic	6	28.27	0.0707	
2A	4	<i>Syzygium jambos</i>	exotic	7	38.48	0.0962	
2A	4	<i>Tabebuia heterophylla</i>	native	3	7.07	0.0177	
2A	4	<i>Tabebuia heterophylla</i>	native	3	7.07	0.0177	
2A	4	<i>Thouinia striata</i>	native	1	0.79	0.0020	
2B	1	<i>Ardisia obovata</i>	native	2	3.14	0.0079	
2B	1	<i>Ardisia obovata</i>	native	3	7.07	0.0177	
2B	1	<i>Calophyllum calaba</i>	native	4	12.57	0.0314	
2B	1	<i>Calophyllum calaba</i>	native	6	28.27	0.0707	
2B	1	<i>Cinamomum montanum</i>	native	2	3.14	0.0079	
2B	1	<i>Comocladia glabra</i>	native	1	0.79	0.0020	
2B	1	<i>Cupania americana</i>	native	6	28.27	0.0707	
2B	1	<i>Dendropanax arboreus</i>	native	1	0.79	0.0020	
2B	1	<i>Dendropanax arboreus</i>	native	2	3.14	0.0079	
2B	1	<i>Dendropanax arboreus</i>	native	2	3.14	0.0079	
2B	1	<i>Dendropanax arboreus</i>	native	4	12.57	0.0314	
2B	1	<i>Dendropanax arboreus</i>	native	5	19.63	0.0491	
2B	1	<i>Eugenia biflora</i>	native	1	0.79	0.0020	
2B	1	<i>Eugenia biflora</i>	native	1	0.79	0.0020	
2B	1	<i>Eugenia biflora</i>	native	2	3.14	0.0079	
2B	1	<i>Eugenia biflora</i>	native	3	7.07	0.0177	

2B	1	<i>Eugenia monticola</i>	native	1	0.79	0.0020
2B	1	<i>Faramea occidentalis</i>	native	2	3.14	0.0079
2B	1	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	1	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	1	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	1	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	1	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	1	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	1	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	1	<i>Hibiscus elatus</i>	exotic	3	7.07	0.0177
2B	1	<i>Hibiscus elatus</i>	exotic	3	7.07	0.0177
2B	1	<i>Hibiscus elatus</i>	exotic	3	7.07	0.0177
2B	1	<i>Hibiscus elatus</i>	exotic	4	12.57	0.0314
2B	1	<i>Hibiscus elatus</i>	exotic	5	19.63	0.0491
2B	1	<i>Hibiscus elatus</i>	exotic	6	28.27	0.0707
2B	1	<i>Hibiscus elatus</i>	exotic	8	50.27	0.1257
2B	1	<i>Hibiscus elatus</i>	exotic	9	63.62	0.1590
2B	1	<i>Hibiscus elatus</i>	exotic	11	95.03	0.2376
2B	1	<i>Hibiscus elatus</i>	exotic	13	132.73	0.3318
2B	1	<i>Hibiscus elatus</i>	exotic	16	201.06	0.5027
2B	1	<i>Hibiscus elatus</i>	exotic	16	201.06	0.5027
2B	1	<i>Hibiscus elatus</i>	exotic	18	254.47	0.6362
2B	1	<i>Hibiscus elatus</i>	exotic	20	314.16	0.7854
2B	1	<i>Hibiscus elatus</i>	exotic	21	346.36	0.8659
2B	1	<i>Ocotea leucoxylon</i>	native	1	0.79	0.0020
2B	1	<i>Ocotea leucoxylon</i>	native	1	0.79	0.0020
2B	1	<i>Parathesis crenulata</i>	native	1	0.79	0.0020
2B	1	<i>Parathesis crenulata</i>	native	1	0.79	0.0020
2B	1	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	1	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	1	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	1	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	1	<i>Picramnia pentandra</i>	native	1	0.79	0.0020
2B	1	<i>Picramnia pentandra</i>	native	1	0.79	0.0020
2B	1	<i>Picramnia pentandra</i>	native	2	3.14	0.0079
2B	1	<i>Pseudolmedia spuria</i>	native	1	0.79	0.0020
2B	1	<i>Pseudolmedia spuria</i>	native	1	0.79	0.0020
2B	1	<i>Pseudolmedia spuria</i>	native	2	3.14	0.0079
2B	1	<i>Pseudolmedia spuria</i>	native	4	12.57	0.0314
2B	1	<i>Pseudolmedia spuria</i>	native	5	19.63	0.0491
2B	1	<i>Thouinia striata</i>	native	1	0.79	0.0020
2B	2	<i>Casearia sylvestris</i>	native	1	0.79	0.0020
2B	2	<i>Casearia sylvestris</i>	native	3	7.07	0.0177

2B	2	<i>Chinanthus dominguensis</i>	native	1	0.79	0.0020
2B	2	<i>Chinanthus dominguensis</i>	native	5	19.63	0.0491
2B	2	<i>Cinamomum montanum</i>	native	3	7.07	0.0177
2B	2	<i>Cupania americana</i>	native	4	12.57	0.0314
2B	2	<i>Dendropanax arboreus</i>	native	1	0.79	0.0020
2B	2	<i>Dendropanax arboreus</i>	native	1	0.79	0.0020
2B	2	<i>Dendropanax arboreus</i>	native	5	19.63	0.0491
2B	2	<i>Eugenia biflora</i>	native	2	3.14	0.0079
2B	2	<i>Eugenia biflora</i>	native	8	50.27	0.1257
2B	2	<i>Eugenia monticola</i>	native	1	0.79	0.0020
2B	2	<i>Eugenia monticola</i>	native	2	3.14	0.0079
2B	2	<i>Guarea guidonia</i>	native	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	2	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	2	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	2	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	2	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	2	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	2	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	2	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	2	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	2	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	2	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	2	<i>Hibiscus elatus</i>	exotic	3	7.07	0.0177
2B	2	<i>Hibiscus elatus</i>	exotic	3	7.07	0.0177
2B	2	<i>Hibiscus elatus</i>	exotic	4	12.57	0.0314
2B	2	<i>Hibiscus elatus</i>	exotic	5	19.63	0.0491
2B	2	<i>Hibiscus elatus</i>	exotic	5	19.63	0.0491
2B	2	<i>Hibiscus elatus</i>	exotic	5	19.63	0.0491
2B	2	<i>Hibiscus elatus</i>	exotic	7	38.48	0.0962
2B	2	<i>Hibiscus elatus</i>	exotic	8	50.27	0.1257
2B	2	<i>Hibiscus elatus</i>	exotic	10	78.54	0.1963
2B	2	<i>Hibiscus elatus</i>	exotic	10	78.54	0.1963
2B	2	<i>Hibiscus elatus</i>	exotic	10	78.54	0.1963
2B	2	<i>Hibiscus elatus</i>	exotic	11	95.03	0.2376
2B	2	<i>Hibiscus elatus</i>	exotic	14	153.94	0.3848
2B	2	<i>Hibiscus elatus</i>	exotic	22	380.13	0.9503

2B	2	Hibiscus elatus	exotic	26	530.93	1.3273
2B	2	Hibiscus elatus	exotic	39	1194.59	2.9865
2B	2	Hibiscus elatus	exotic	45	1590.43	3.9761
2B	2	Ocotea leucoxydon	native	1	0.79	0.0020
2B	2	Picramnia pentandra	native	1	0.79	0.0020
2B	2	Picramnia pentandra	native	2	3.14	0.0079
2B	2	Picramnia pentandra	native	3	7.07	0.0177
2B	2	Picramnia pentandra	native	3	7.07	0.0177
2B	2	Pseudolmedia spuria	native	1	0.79	0.0020
2B	2	Pseudolmedia spuria	native	1	0.79	0.0020
2B	2	Pseudolmedia spuria	native	1	0.79	0.0020
2B	2	Pseudolmedia spuria	native	2	3.14	0.0079
2B	2	Pseudolmedia spuria	native	3	7.07	0.0177
2B	2	Pseudolmedia spuria	native	3	7.07	0.0177
2B	2	Pseudolmedia spuria	native	4	12.57	0.0314
2B	2	Pseudolmedia spuria	native	4	12.57	0.0314
2B	2	Pseudolmedia spuria	native	5	19.63	0.0491
2B	2	Tabebuia heterophylla	native	2	3.14	0.0079
2B	2	Tabebuia heterophylla	native	2	3.14	0.0079
2B	2	Tabebuia heterophylla	native	2	3.14	0.0079
2B	3	Calophyllum calaba	native	5	19.63	0.0491
2B	3	Chinanthus dominguensis	native	3	7.07	0.0177
2B	3	Cinamomum montanum	native	1	0.79	0.0020
2B	3	Comocladia glabra	native	1	0.79	0.0020
2B	3	Cupania americana	native	3	7.07	0.0177
2B	3	Dendropanax arboreus	native	3	7.07	0.0177
2B	3	Dendropanax arboreus	native	3	7.07	0.0177
2B	3	Dendropanax arboreus	native	3	7.07	0.0177
2B	3	Dendropanax arboreus	native	4	12.57	0.0314
2B	3	Dendropanax arboreus	native	4	12.57	0.0314
2B	3	Dendropanax arboreus	native	5	19.63	0.0491
2B	3	Dendropanax arboreus	native	5	19.63	0.0491
2B	3	Dendropanax arboreus	native	7	38.48	0.0962
2B	3	Eugenia biflora	native	2	3.14	0.0079
2B	3	Eugenia monticola	native	1	0.79	0.0020
2B	3	Faramea occidentalis	native	2	3.14	0.0079
2B	3	Faramea occidentalis	native	3	7.07	0.0177
2B	3	Hibiscus elatus	exotic	1	0.79	0.0020
2B	3	Hibiscus elatus	exotic	1	0.79	0.0020
2B	3	Hibiscus elatus	exotic	1	0.79	0.0020
2B	3	Hibiscus elatus	exotic	1	0.79	0.0020
2B	3	Hibiscus elatus	exotic	2	3.14	0.0079
2B	3	Hibiscus elatus	exotic	2	3.14	0.0079
2B	3	Hibiscus elatus	exotic	3	7.07	0.0177

2B	3	Hibiscus elatus	exotic	3	7.07	0.0177
2B	3	Hibiscus elatus	exotic	3	7.07	0.0177
2B	3	Hibiscus elatus	exotic	4	12.57	0.0314
2B	3	Hibiscus elatus	exotic	4	12.57	0.0314
2B	3	Hibiscus elatus	exotic	5	19.63	0.0491
2B	3	Hibiscus elatus	exotic	5	19.63	0.0491
2B	3	Hibiscus elatus	exotic	7	38.48	0.0962
2B	3	Hibiscus elatus	exotic	8	50.27	0.1257
2B	3	Hibiscus elatus	exotic	8	50.27	0.1257
2B	3	Hibiscus elatus	exotic	10	78.54	0.1963
2B	3	Hibiscus elatus	exotic	10	78.54	0.1963
2B	3	Hibiscus elatus	exotic	12	113.10	0.2827
2B	3	Hibiscus elatus	exotic	12	113.10	0.2827
2B	3	Hibiscus elatus	exotic	13	132.73	0.3318
2B	3	Hibiscus elatus	exotic	15	176.71	0.4418
2B	3	Hibiscus elatus	exotic	16	201.06	0.5027
2B	3	Hibiscus elatus	exotic	54	2290.22	5.7256
2B	3	Ocotea leucoxydon	native	2	3.14	0.0079
2B	3	Parathesis crenulata	native	1	0.79	0.0020
2B	3	Parathesis crenulata	native	1	0.79	0.0020
2B	3	Picramnia pentandra	native	1	0.79	0.0020
2B	3	Pseudolmedia spuria	native	1	0.79	0.0020
2B	3	Pseudolmedia spuria	native	1	0.79	0.0020
2B	3	Pseudolmedia spuria	native	1	0.79	0.0020
2B	3	Pseudolmedia spuria	native	1	0.79	0.0020
2B	3	Pseudolmedia spuria	native	2	3.14	0.0079
2B	3	Pseudolmedia spuria	native	3	7.07	0.0177
2B	3	Roystonea borinquena	native	14	153.94	0.3848
2B	3	Syzygium jambos	exotic	1	0.79	0.0020
2B	3	Thouinia striata	native	2	3.14	0.0079
2B	3	Thouinia striata	native	2	3.14	0.0079
2B	4	Andira inermis	native	2	3.14	0.0079
2B	4	Andira inermis	native	2	3.14	0.0079
2B	4	Calophyllum calaba	native	4	12.57	0.0314
2B	4	Casearia decandra	native	2	3.14	0.0079
2B	4	Chinanthus domingensis	native	3	7.07	0.0177
2B	4	Dendropanax arboreus	native	1	0.79	0.0020
2B	4	Dendropanax arboreus	native	2	3.14	0.0079
2B	4	Dendropanax arboreus	native	2	3.14	0.0079
2B	4	Dendropanax arboreus	native	3	7.07	0.0177
2B	4	Dendropanax arboreus	native	4	12.57	0.0314
2B	4	Dendropanax arboreus	native	8	50.27	0.1257
2B	4	Eugenia biflora	native	1	0.79	0.0020
2B	4	Eugenia biflora	native	2	3.14	0.0079

2B	4	<i>Eugenia biflora</i>	native	3	7.07	0.0177
2B	4	<i>Eugenia biflora</i>	native	4	12.57	0.0314
2B	4	<i>Ficus citrifolia</i>	native	4	12.57	0.0314
2B	4	<i>Guarea guidonia</i>	native	2	3.14	0.0079
2B	4	<i>Guarea guidonia</i>	native	39	1194.59	2.9865
2B	4	<i>Guarea guidonia</i>	native	40	1256.64	3.1416
2B	4	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
2B	4	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
2B	4	<i>Hibiscus elatus</i>	exotic	9	63.62	0.1590
2B	4	<i>Hibiscus elatus</i>	exotic	10	78.54	0.1963
2B	4	<i>Hibiscus elatus</i>	exotic	17	226.98	0.5675
2B	4	<i>Ocotea leucoxylon</i>	native	3	7.07	0.0177
2B	4	<i>Ocotea leucoxylon</i>	native	5	19.63	0.0491
2B	4	<i>Parathesis crenulata</i>	native	1	0.79	0.0020
2B	4	<i>Parathesis crenulata</i>	native	1	0.79	0.0020
2B	4	<i>Parathesis crenulata</i>	native	1	0.79	0.0020
2B	4	<i>Parathesis crenulata</i>	native	1	0.79	0.0020
2B	4	<i>Parathesis crenulata</i>	native	1	0.79	0.0020
2B	4	<i>Parathesis crenulata</i>	native	1	0.79	0.0020
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	2	3.14	0.0079
2B	4	<i>Parathesis crenulata</i>	native	3	7.07	0.0177
2B	4	<i>Picramnia pentandra</i>	native	1	0.79	0.0020
2B	4	<i>Pseudolmedia spuria</i>	native	1	0.79	0.0020
2B	4	<i>Pseudolmedia spuria</i>	native	1	0.79	0.0020
2B	4	<i>Pseudolmedia spuria</i>	native	1	0.79	0.0020
2B	4	<i>Pseudolmedia spuria</i>	native	1	0.79	0.0020
2B	4	<i>Pseudolmedia spuria</i>	native	2	3.14	0.0079
2B	4	<i>Pseudolmedia spuria</i>	native	2	3.14	0.0079
2B	4	<i>Pseudolmedia spuria</i>	native	2	3.14	0.0079
2B	4	<i>Pseudolmedia spuria</i>	native	3	7.07	0.0177
2B	4	<i>Pseudolmedia spuria</i>	native	5	19.63	0.0491
2B	4	<i>Pseudolmedia spuria</i>	native	7	38.48	0.0962
2B	4	<i>Roystonea borinquena</i>	native	9	63.62	0.1590
2B	4	<i>Thouinia striata</i>	native	2	3.14	0.0079
2B	4	<i>Trichilia pallida</i>	native	2	3.14	0.0079
3A	1	<i>Calophyllum calaba</i>	native	1	0.79	0.0020



3A	1	Calophyllum calaba	native	1	0.79	0.0020
3A	1	Calophyllum calaba	native	1	0.79	0.0020
3A	1	Calophyllum calaba	native	1	0.79	0.0020
3A	1	Calophyllum calaba	native	1	0.79	0.0020
3A	1	Calophyllum calaba	native	1	0.79	0.0020
3A	1	Calophyllum calaba	native	1	0.79	0.0020
3A	1	Calophyllum calaba	native	1	0.79	0.0020
3A	1	Calophyllum calaba	native	1	0.79	0.0020
3A	1	Calophyllum calaba	native	1	0.79	0.0020
3A	1	Calophyllum calaba	native	2	3.14	0.0079
3A	1	Calophyllum calaba	native	2	3.14	0.0079
3A	1	Calophyllum calaba	native	2	3.14	0.0079
3A	1	Guarea guidonia	native	1	0.79	0.0020
3A	1	Guarea guidonia	native	1	0.79	0.0020
3A	1	Guarea guidonia	native	1	0.79	0.0020
3A	1	Guarea guidonia	native	1	0.79	0.0020
3A	1	Guarea guidonia	native	1	0.79	0.0020
3A	1	Guarea guidonia	native	2	3.14	0.0079
3A	1	Guarea guidonia	native	2	3.14	0.0079
3A	1	Guarea guidonia	native	5	19.63	0.0491
3A	1	Hibiscus elatus	exotic	1	0.79	0.0020
3A	1	Hibiscus elatus	exotic	1	0.79	0.0020
3A	1	Hibiscus elatus	exotic	1	0.79	0.0020
3A	1	Hibiscus elatus	exotic	2	3.14	0.0079
3A	1	Hibiscus elatus	exotic	2	3.14	0.0079
3A	1	Hibiscus elatus	exotic	2	3.14	0.0079
3A	1	Hibiscus elatus	exotic	2	3.14	0.0079
3A	1	Hibiscus elatus	exotic	2	3.14	0.0079
3A	1	Hibiscus elatus	exotic	2	3.14	0.0079
3A	1	Hibiscus elatus	exotic	3	7.07	0.0177
3A	1	Hibiscus elatus	exotic	3	7.07	0.0177
3A	1	Hibiscus elatus	exotic	3	7.07	0.0177
3A	1	Hibiscus elatus	exotic	3	7.07	0.0177
3A	1	Hibiscus elatus	exotic	3	7.07	0.0177
3A	1	Hibiscus elatus	exotic	4	12.57	0.0314
3A	1	Hibiscus elatus	exotic	4	12.57	0.0314
3A	1	Hibiscus elatus	exotic	5	19.63	0.0491
3A	1	Hibiscus elatus	exotic	5	19.63	0.0491
3A	1	Hibiscus elatus	exotic	7	38.48	0.0962
3A	1	Hibiscus elatus	exotic	22	380.13	0.9503
3A	1	Hibiscus elatus	exotic	28	615.75	1.5394
3A	1	Hibiscus elatus	exotic	28	615.75	1.5394
3A	1	Hibiscus elatus	exotic	35	962.11	2.4053
3A	1	Hibiscus elatus	exotic	38	1134.11	2.8353
3A	1	Hibiscus elatus	exotic	41	1320.25	3.3006

3A	1	Hibiscus elatus	exotic	47	1734.94	4.3374
3A	1	Hyeronima clusioides	native	12	113.10	0.2827
3A	1	Hyeronima clusioides	native	12	113.10	0.2827
3A	1	Hyeronima clusioides	native	13	132.73	0.3318
3A	1	Sweitenia macrophylla	exotic	18	254.47	0.6362
3A	2	Calophyllum calaba	native	1	0.79	0.0020
3A	2	Calophyllum calaba	native	1	0.79	0.0020
3A	2	Calophyllum calaba	native	1	0.79	0.0020
3A	2	Calophyllum calaba	native	2	3.14	0.0079
3A	2	Calophyllum calaba	native	2	3.14	0.0079
3A	2	Calophyllum calaba	native	2	3.14	0.0079
3A	2	Calophyllum calaba	native	3	7.07	0.0177
3A	2	Calophyllum calaba	native	3	7.07	0.0177
3A	2	Calophyllum calaba	native	3	7.07	0.0177
3A	2	Guarea guidonia	native	1	0.79	0.0020
3A	2	Guarea guidonia	native	1	0.79	0.0020
3A	2	Guarea guidonia	native	1	0.79	0.0020
3A	2	Guarea guidonia	native	1	0.79	0.0020
3A	2	Guarea guidonia	native	1	0.79	0.0020
3A	2	Guarea guidonia	native	1	0.79	0.0020
3A	2	Guarea guidonia	native	2	3.14	0.0079
3A	2	Guarea guidonia	native	2	3.14	0.0079
3A	2	Guarea guidonia	native	2	3.14	0.0079
3A	2	Guarea guidonia	native	3	7.07	0.0177
3A	2	Guarea guidonia	native	36	1017.88	2.5447
3A	2	Hyeronima clusioides	native	10	78.54	0.1963
3A	2	Hyeronima clusioides	native	16	201.06	0.5027
3A	2	Hyeronima clusioides	native	29	660.52	1.6513
3A	3	Guarea guidonia	native	1	0.79	0.0020
3A	3	Guarea guidonia	native	1	0.79	0.0020
3A	3	Guarea guidonia	native	1	0.79	0.0020
3A	3	Guarea guidonia	native	1	0.79	0.0020
3A	3	Guarea guidonia	native	2	3.14	0.0079
3A	3	Guarea guidonia	native	2	3.14	0.0079
3A	3	Guarea guidonia	native	3	7.07	0.0177
3A	3	Guarea guidonia	native	3	7.07	0.0177
3A	3	Guarea guidonia	native	12	113.10	0.2827
3A	3	Hibiscus elatus	exotic	24	452.39	1.1310
3A	3	Hibiscus elatus	exotic	39	1194.59	2.9865
3A	3	Hibiscus elatus	exotic	42	1385.44	3.4636
3A	3	Hibiscus elatus	exotic	48	1809.56	4.5239
3A	3	Sweitenia macrophylla	exotic	1	0.79	0.0020
3A	3	Sweitenia macrophylla	exotic	2	3.14	0.0079
3A	4	Calophyllum calaba	native	1	0.79	0.0020

3A	4	Calophyllum calaba	native	1	0.79	0.0020
3A	4	Calophyllum calaba	native	1	0.79	0.0020
3A	4	Calophyllum calaba	native	1	0.79	0.0020
3A	4	Calophyllum calaba	native	3	7.07	0.0177
3A	4	Calophyllum calaba	native	3	7.07	0.0177
3A	4	Dendropanax arboreus	native	1	0.79	0.0020
3A	4	Guarea guidonia	native	1	0.79	0.0020
3A	4	Guarea guidonia	native	1	0.79	0.0020
3A	4	Guarea guidonia	native	1	0.79	0.0020
3A	4	Guarea guidonia	native	1	0.79	0.0020
3A	4	Guarea guidonia	native	3	7.07	0.0177
3A	4	Guarea guidonia	native	3	7.07	0.0177
3A	4	Hibiscus elatus	exotic	5	19.63	0.0491
3A	4	Hibiscus elatus	exotic	9	63.62	0.1590
3A	4	Hibiscus elatus	exotic	35	962.11	2.4053
3A	4	Hibiscus elatus	exotic	39	1194.59	2.9865
3A	4	Ocotea leucoxydon	native	2	3.14	0.0079
3A	4	Sweitenia macrophylla	exotic	1	0.79	0.0020
3A	4	Sweitenia macrophylla	exotic	1	0.79	0.0020
3A	4	Sweitenia macrophylla	exotic	1	0.79	0.0020
3B	1	Calophyllum calaba	native	1	0.79	0.0020
3B	1	Calophyllum calaba	native	1	0.79	0.0020
3B	1	Calophyllum calaba	native	1	0.79	0.0020
3B	1	Calophyllum calaba	native	1	0.79	0.0020
3B	1	Calophyllum calaba	native	1	0.79	0.0020
3B	1	Calophyllum calaba	native	1	0.79	0.0020
3B	1	Calophyllum calaba	native	1	0.79	0.0020
3B	1	Calophyllum calaba	native	1	0.79	0.0020
3B	1	Calophyllum calaba	native	1	0.79	0.0020
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Calophyllum calaba	native	2	3.14	0.0079
3B	1	Castilla elastica	exotic	2	3.14	0.0079
3B	1	Castilla elastica	exotic	3	7.07	0.0177
3B	1	Castilla elastica	exotic	3	7.07	0.0177
3B	1	Guarea guidonia	native	1	0.79	0.0020
3B	1	Guarea guidonia	native	4	12.57	0.0314

3B	1	Hibiscus elatus	exotic	2	3.14	0.0079	g
3B	1	Hibiscus elatus	exotic	2	3.14	0.0079	g
3B	1	Hibiscus elatus	exotic	4	12.57	0.0314	g
3B	1	Hibiscus elatus	exotic	7	38.48	0.0962	g
3B	1	Hibiscus elatus	exotic	26	530.93	1.3273	g
3B	1	Hibiscus elatus	exotic	40	1256.64	3.1416	g
3B	1	Hibiscus elatus	exotic	41	1320.25	3.3006	g
3B	1	Hibiscus elatus	exotic	46	1661.90	4.1548	g
3B	1	Hibiscus elatus	exotic	1	0.79	0.0020	
3B	1	Inga vera	native	1	0.79	0.0020	
3B	1	Quararibaea turbinata	native	3	7.07	0.0177	
3B	1	Sweitenia macrophylla	exotic	2	3.14	0.0079	
3B	1	Tabebuia heterophylla	native	1	0.79	0.0020	
3B	2	Calophyllum calaba	native	1	0.79	0.0020	
3B	2	Calophyllum calaba	native	1	0.79	0.0020	
3B	2	Calophyllum calaba	native	1	0.79	0.0020	
3B	2	Calophyllum calaba	native	1	0.79	0.0020	
3B	2	Calophyllum calaba	native	1	0.79	0.0020	
3B	2	Calophyllum calaba	native	1	0.79	0.0020	
3B	2	Calophyllum calaba	native	1	0.79	0.0020	
3B	2	Calophyllum calaba	native	1	0.79	0.0020	
3B	2	Calophyllum calaba	native	1	0.79	0.0020	
3B	2	Calophyllum calaba	native	2	3.14	0.0079	
3B	2	Calophyllum calaba	native	2	3.14	0.0079	
3B	2	Calophyllum calaba	native	2	3.14	0.0079	
3B	2	Calophyllum calaba	native	2	3.14	0.0079	
3B	2	Calophyllum calaba	native	2	3.14	0.0079	
3B	2	Calophyllum calaba	native	2	3.14	0.0079	
3B	2	Calophyllum calaba	native	2	3.14	0.0079	
3B	2	Calophyllum calaba	native	2	3.14	0.0079	
3B	2	Calophyllum calaba	native	2	3.14	0.0079	
3B	2	Calophyllum calaba	native	2	3.14	0.0079	
3B	2	Calophyllum calaba	native	3	7.07	0.0177	
3B	2	Calophyllum calaba	native	3	7.07	0.0177	
3B	2	Dendropanax arboreus	native	12	113.10	0.2827	
3B	2	Hibiscus elatus	exotic	2	3.14	0.0079	g
3B	2	Hibiscus elatus	exotic	2	3.14	0.0079	g
3B	2	Hibiscus elatus	exotic	3	7.07	0.0177	g
3B	2	Hibiscus elatus	exotic	4	12.57	0.0314	g
3B	2	Hibiscus elatus	exotic	9	63.62	0.1590	g
3B	2	Hibiscus elatus	exotic	27	572.56	1.4314	g
3B	2	Hibiscus elatus	exotic	39	1194.59	2.9865	g
3B	2	Hibiscus elatus	exotic	41	1320.25	3.3006	g
3B	2	Hibiscus elatus	exotic	3	7.07	0.0177	
3B	2	Hibiscus elatus	exotic	4	12.57	0.0314	

3B	2	Hyeronima clusioides	native	9	63.62	0.1590	
3B	3	Calophyllum calaba	native	1	0.79	0.0020	
3B	3	Calophyllum calaba	native	2	3.14	0.0079	
3B	3	Calophyllum calaba	native	2	3.14	0.0079	
3B	3	Calophyllum calaba	native	3	7.07	0.0177	
3B	3	Calophyllum calaba	native	3	7.07	0.0177	
3B	3	Calophyllum calaba	native	3	7.07	0.0177	
3B	3	Calophyllum calaba	native	6	28.27	0.0707	
3B	3	Calophyllum calaba	native	6	28.27	0.0707	
3B	3	Calophyllum calaba	native	6	28.27	0.0707	
3B	3	Calophyllum calaba	native	6	28.27	0.0707	
3B	3	Calophyllum calaba	native	6	28.27	0.0707	
3B	3	Calophyllum calaba	native	6	28.27	0.0707	
3B	3	Guarea guidonia	native	1	0.79	0.0020	
3B	3	Guarea guidonia	native	1	0.79	0.0020	
3B	3	Guarea ramiflora	native	2	3.14	0.0079	
3B	3	Hibiscus elatus	exotic	4	12.57	0.0314	g
3B	3	Hibiscus elatus	exotic	5	19.63	0.0491	g
3B	3	Hibiscus elatus	exotic	6	28.27	0.0707	g
3B	3	Hibiscus elatus	exotic	8	50.27	0.1257	g
3B	3	Hibiscus elatus	exotic	9	63.62	0.1590	g
3B	3	Hibiscus elatus	exotic	27	572.56	1.4314	g
3B	3	Hibiscus elatus	exotic	35	962.11	2.4053	g
3B	3	Hibiscus elatus	exotic	36	1017.88	2.5447	g
3B	3	Hibiscus elatus	exotic	43	1452.20	3.6305	g
3B	3	Hibiscus elatus	exotic	52	2123.72	5.3093	g
3B	3	Hibiscus elatus	exotic	3	7.07	0.0177	
3B	3	Ocotea leucoxydon	native	3	7.07	0.0177	
3B	4	Calophyllum calaba	native	1	0.79	0.0020	
3B	4	Calophyllum calaba	native	1	0.79	0.0020	
3B	4	Calophyllum calaba	native	1	0.79	0.0020	
3B	4	Calophyllum calaba	native	1	0.79	0.0020	
3B	4	Calophyllum calaba	native	3	7.07	0.0177	
3B	4	Calophyllum calaba	native	3	7.07	0.0177	
3B	4	Calophyllum calaba	native	4	12.57	0.0314	
3B	4	Calophyllum calaba	native	13	132.73	0.3318	
3B	4	Castilla elastica	exotic	1	0.79	0.0020	
3B	4	Castilla elastica	exotic	3	7.07	0.0177	
3B	4	Castilla elastica	exotic	3	7.07	0.0177	
3B	4	Chione venosa	native	5	19.63	0.0491	
3B	4	Dendropanax arboreus	native	3	7.07	0.0177	
3B	4	Dendropanax arboreus	native	7	38.48	0.0962	
3B	4	Dendropanax arboreus	native	16	201.06	0.5027	
3B	4	Guarea guidonia	native	3	7.07	0.0177	

3B	4	Guarea ramiflora	native	3	7.07	0.0177	
3B	4	Hibiscus elatus	exotic	1	0.79	0.0020	g
3B	4	Hibiscus elatus	exotic	1	0.79	0.0020	g
3B	4	Hibiscus elatus	exotic	2	3.14	0.0079	g
3B	4	Hibiscus elatus	exotic	3	7.07	0.0177	g
3B	4	Hibiscus elatus	exotic	3	7.07	0.0177	g
3B	4	Hibiscus elatus	exotic	3	7.07	0.0177	g
3B	4	Hibiscus elatus	exotic	4	12.57	0.0314	g
3B	4	Hibiscus elatus	exotic	4	12.57	0.0314	g
3B	4	Hibiscus elatus	exotic	4	12.57	0.0314	g
3B	4	Hibiscus elatus	exotic	4	12.57	0.0314	g
3B	4	Hibiscus elatus	exotic	4	12.57	0.0314	g
3B	4	Hibiscus elatus	exotic	9	63.62	0.1590	g
3B	4	Hibiscus elatus	exotic	33	855.30	2.1382	g
3B	4	Hibiscus elatus	exotic	38	1134.11	2.8353	g
3B	4	Hibiscus elatus	exotic	58	2642.08	6.6052	g
3B	4	Hyeronima clusioides	native	8	50.27	0.1257	
3B	4	Quararibaea turbinata	native	3	7.07	0.0177	
4A	1	Anthocephalus chinensis	exotic	1	0.79	0.0020	
4A	1	Anthocephalus chinensis	exotic	9	63.62	0.1590	
4A	1	Calophyllum calaba	native	1	0.79	0.0020	
4A	1	Calophyllum calaba	native	1	0.79	0.0020	
4A	1	Calophyllum calaba	native	1	0.79	0.0020	
4A	1	Calophyllum calaba	native	1	0.79	0.0020	
4A	1	Calophyllum calaba	native	2	3.14	0.0079	
4A	1	Guarea ramiflora	native	1	0.79	0.0020	
4A	1	Guarea ramiflora	native	1	0.79	0.0020	
4A	1	Guarea ramiflora	native	2	3.14	0.0079	
4A	1	Guarea ramiflora	native	8	50.27	0.1257	
4A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
4A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
4A	1	Hibiscus elatus	exotic	2	3.14	0.0079	
4A	1	Hibiscus elatus	exotic	2	3.14	0.0079	
4A	1	Hibiscus elatus	exotic	2	3.14	0.0079	
4A	1	Hibiscus elatus	exotic	3	7.07	0.0177	
4A	1	Hibiscus elatus	exotic	4	12.57	0.0314	
4A	1	Hibiscus elatus	exotic	4	12.57	0.0314	
4A	1	Hibiscus elatus	exotic	4	12.57	0.0314	
4A	1	Hibiscus elatus	exotic	6	28.27	0.0707	
4A	1	Hibiscus elatus	exotic	7	38.48	0.0962	
4A	1	Hibiscus elatus	exotic	9	63.62	0.1590	
4A	1	Hibiscus elatus	exotic	10	78.54	0.1963	
4A	1	Hibiscus elatus	exotic	13	132.73	0.3318	
4A	1	Miconia prasina	native	1	0.79	0.0020	

4A	1	Miconia prasina	native	1	0.79	0.0020
4A	1	Miconia prasina	native	1	0.79	0.0020
4A	1	Miconia prasina	native	1	0.79	0.0020
4A	1	Miconia prasina	native	1	0.79	0.0020
4A	1	Miconia prasina	native	1	0.79	0.0020
4A	1	Miconia prasina	native	1	0.79	0.0020
4A	1	Miconia prasina	native	1	0.79	0.0020
4A	1	Miconia prasina	native	1	0.79	0.0020
4A	1	Miconia prasina	native	2	3.14	0.0079
4A	1	Miconia prasina	native	2	3.14	0.0079
4A	1	Miconia prasina	native	2	3.14	0.0079
4A	1	Miconia prasina	native	2	3.14	0.0079
4A	1	Miconia prasina	native	2	3.14	0.0079
4A	1	Miconia prasina	native	2	3.14	0.0079
4A	1	Miconia prasina	native	2	3.14	0.0079
4A	1	Miconia prasina	native	2	3.14	0.0079
4A	1	Miconia prasina	native	3	7.07	0.0177
4A	1	Miconia prasina	native	3	7.07	0.0177
4A	1	Miconia prasina	native	3	7.07	0.0177
4A	1	Miconia prasina	native	3	7.07	0.0177
4A	1	Miconia prasina	native	3	7.07	0.0177
4A	1	Miconia prasina	native	3	7.07	0.0177
4A	1	Miconia prasina	native	3	7.07	0.0177
4A	1	Miconia prasina	native	3	7.07	0.0177
4A	1	Miconia prasina	native	4	12.57	0.0314
4A	1	Miconia prasina	native	4	12.57	0.0314
4A	1	Miconia prasina	native	5	19.63	0.0491
4A	1	Miconia prasina	native	5	19.63	0.0491
4A	1	Miconia prasina	native	5	19.63	0.0491
4A	1	Miconia prasina	native	7	38.48	0.0962
4A	1	Miconia prasina	native	9	63.62	0.1590
4A	1	Tabebuia heterophylla	native	2	3.14	0.0079
4A	2	Guarea ramiflora	native	1	0.79	0.0020
4A	2	Guarea ramiflora	native	11	95.03	0.2376
4A	2	Hibiscus elatus	exotic	1	0.79	0.0020
4A	2	Hibiscus elatus	exotic	1	0.79	0.0020
4A	2	Hibiscus elatus	exotic	2	3.14	0.0079
4A	2	Hibiscus elatus	exotic	3	7.07	0.0177
4A	2	Hibiscus elatus	exotic	4	12.57	0.0314
4A	2	Hibiscus elatus	exotic	4	12.57	0.0314
4A	2	Hibiscus elatus	exotic	4	12.57	0.0314
4A	2	Hibiscus elatus	exotic	4	12.57	0.0314
4A	2	Hibiscus elatus	exotic	6	28.27	0.0707
4A	2	Hibiscus elatus	exotic	12	113.10	0.2827
4A	2	Hibiscus elatus	exotic	21	346.36	0.8659
4A	2	Hibiscus elatus	exotic	22	380.13	0.9503
4A	2	Hibiscus elatus	exotic	28	615.75	1.5394

4A	2	Hibiscus elatus	exotic	44	1520.53	3.8013
4A	2	Miconia prasina	native	1	0.79	0.0020
4A	2	Miconia prasina	native	1	0.79	0.0020
4A	2	Miconia prasina	native	1	0.79	0.0020
4A	2	Miconia prasina	native	1	0.79	0.0020
4A	2	Miconia prasina	native	1	0.79	0.0020
4A	2	Miconia prasina	native	1	0.79	0.0020
4A	2	Miconia prasina	native	1	0.79	0.0020
4A	2	Miconia prasina	native	1	0.79	0.0020
4A	2	Miconia prasina	native	1	0.79	0.0020
4A	2	Miconia prasina	native	1	0.79	0.0020
4A	2	Miconia prasina	native	1	0.79	0.0020
4A	2	Miconia prasina	native	2	3.14	0.0079
4A	2	Miconia prasina	native	2	3.14	0.0079
4A	2	Miconia prasina	native	2	3.14	0.0079
4A	2	Miconia prasina	native	2	3.14	0.0079
4A	2	Miconia prasina	native	2	3.14	0.0079
4A	2	Miconia prasina	native	2	3.14	0.0079
4A	2	Miconia prasina	native	2	3.14	0.0079
4A	2	Miconia prasina	native	2	3.14	0.0079
4A	2	Miconia prasina	native	2	3.14	0.0079
4A	2	Miconia prasina	native	3	7.07	0.0177
4A	2	Miconia prasina	native	3	7.07	0.0177
4A	2	Miconia prasina	native	3	7.07	0.0177
4A	2	Miconia prasina	native	3	7.07	0.0177
4A	2	Miconia prasina	native	3	7.07	0.0177
4A	2	Miconia prasina	native	3	7.07	0.0177
4A	2	Miconia prasina	native	4	12.57	0.0314
4A	2	Miconia prasina	native	4	12.57	0.0314
4A	2	Miconia prasina	native	5	19.63	0.0491
4A	2	Miconia prasina	native	5	19.63	0.0491
4A	2	Miconia prasina	native	6	28.27	0.0707
4A	2	Miconia prasina	native	7	38.48	0.0962
4A	2	Pinus caribea	exotic	61	2922.47	7.3062
4A	2	Spathodea campanulata	exotic	1	0.79	0.0020
4A	2	Tabebuia heterophylla	native	1	0.79	0.0020
4A	3	Anthocephalus chinensis	exotic	34	907.92	2.2698
4A	3	Calophyllum calaba	native	1	0.79	0.0020
4A	3	Calophyllum calaba	native	1	0.79	0.0020
4A	3	Calophyllum calaba	native	1	0.79	0.0020
4A	3	Calophyllum calaba	native	1	0.79	0.0020
4A	3	Calophyllum calaba	native	1	0.79	0.0020
4A	3	Calophyllum calaba	native	2	3.14	0.0079
4A	3	Calophyllum calaba	native	2	3.14	0.0079
4A	3	Calophyllum calaba	native	2	3.14	0.0079



4A	3	Casearia decandra	native	2	3.14	0.0079
4A	3	Casearia decandra	native	3	7.07	0.0177
4A	3	Eugenia biflora	native	4	12.57	0.0314
4A	3	Guarea ramiflora	native	1	0.79	0.0020
4A	3	Guarea ramiflora	native	6	28.27	0.0707
4A	3	Hibiscus elatus	exotic	1	0.79	0.0020
4A	3	Hibiscus elatus	exotic	1	0.79	0.0020
4A	3	Hibiscus elatus	exotic	1	0.79	0.0020
4A	3	Hibiscus elatus	exotic	1	0.79	0.0020
4A	3	Hibiscus elatus	exotic	1	0.79	0.0020
4A	3	Hibiscus elatus	exotic	1	0.79	0.0020
4A	3	Hibiscus elatus	exotic	1	0.79	0.0020
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	2	3.14	0.0079
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	3	7.07	0.0177
4A	3	Hibiscus elatus	exotic	4	12.57	0.0314
4A	3	Hibiscus elatus	exotic	4	12.57	0.0314
4A	3	Hibiscus elatus	exotic	4	12.57	0.0314
4A	3	Hibiscus elatus	exotic	4	12.57	0.0314

4A	3	Hibiscus elatus	exotic	4	12.57	0.0314
4A	3	Hibiscus elatus	exotic	4	12.57	0.0314
4A	3	Hibiscus elatus	exotic	4	12.57	0.0314
4A	3	Hibiscus elatus	exotic	5	19.63	0.0491
4A	3	Hibiscus elatus	exotic	5	19.63	0.0491
4A	3	Hibiscus elatus	exotic	8	50.27	0.1257
4A	3	Hibiscus elatus	exotic	10	78.54	0.1963
4A	3	Hibiscus elatus	exotic	11	95.03	0.2376
4A	3	Hibiscus elatus	exotic	12	113.10	0.2827
4A	3	Hibiscus elatus	exotic	13	132.73	0.3318
4A	3	Hibiscus elatus	exotic	14	153.94	0.3848
4A	3	Miconia prasina	native	1	0.79	0.0020
4A	3	Miconia prasina	native	1	0.79	0.0020
4A	3	Miconia prasina	native	1	0.79	0.0020
4A	3	Miconia prasina	native	1	0.79	0.0020
4A	3	Miconia prasina	native	1	0.79	0.0020
4A	3	Miconia prasina	native	2	3.14	0.0079
4A	3	Miconia prasina	native	2	3.14	0.0079
4A	3	Miconia prasina	native	2	3.14	0.0079
4A	3	Miconia prasina	native	2	3.14	0.0079
4A	3	Miconia prasina	native	5	19.63	0.0491
4A	3	Miconia prasina	native	6	28.27	0.0707
4A	3	Peltophorum pterocarpium	exotic	1	0.79	0.0020
4A	3	Peltophorum pterocarpium	exotic	1	0.79	0.0020
4A	3	Peltophorum pterocarpium	exotic	4	12.57	0.0314
4A	3	Peltophorum pterocarpium	exotic	35	962.11	2.4053
4A	3	Tabebuia heterophylla	native	6	28.27	0.0707
4A	4	Calophyllum calaba	native	1	0.79	0.0020
4A	4	Calophyllum calaba	native	1	0.79	0.0020
4A	4	Calophyllum calaba	native	2	3.14	0.0079
4A	4	Calophyllum calaba	native	2	3.14	0.0079
4A	4	Calophyllum calaba	native	2	3.14	0.0079
4A	4	Calophyllum calaba	native	3	7.07	0.0177
4A	4	Calophyllum calaba	native	3	7.07	0.0177
4A	4	Guarea guidonia	native	1	0.79	0.0020
4A	4	Guarea guidonia	native	2	3.14	0.0079
4A	4	Guarea ramiflora	native	1	0.79	0.0020
4A	4	Guarea ramiflora	native	1	0.79	0.0020
4A	4	Guarea ramiflora	native	1	0.79	0.0020
4A	4	Guarea ramiflora	native	13	132.73	0.3318
4A	4	Hibiscus elatus	exotic	1	0.79	0.0020
4A	4	Hibiscus elatus	exotic	1	0.79	0.0020
4A	4	Hibiscus elatus	exotic	1	0.79	0.0020
4A	4	Hibiscus elatus	exotic	1	0.79	0.0020

4A	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4A	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4A	4	Hibiscus elatus	exotic	2	3.14	0.0079	
4A	4	Hibiscus elatus	exotic	2	3.14	0.0079	
4A	4	Hibiscus elatus	exotic	2	3.14	0.0079	
4A	4	Hibiscus elatus	exotic	3	7.07	0.0177	
4A	4	Hibiscus elatus	exotic	4	12.57	0.0314	
4A	4	Hibiscus elatus	exotic	4	12.57	0.0314	
4A	4	Hibiscus elatus	exotic	5	19.63	0.0491	
4A	4	Hibiscus elatus	exotic	9	63.62	0.1590	
4A	4	Hibiscus elatus	exotic	23	415.48	1.0387	
4A	4	Hibiscus elatus	exotic	74	4300.84	10.7521	
4A	4	Miconia prasina	native	1	0.79	0.0020	
4A	4	Miconia prasina	native	2	3.14	0.0079	
4A	4	Miconia prasina	native	3	7.07	0.0177	
4A	4	Miconia prasina	native	3	7.07	0.0177	
4A	4	Miconia prasina	native	4	12.57	0.0314	
4A	4	Miconia prasina	native	4	12.57	0.0314	
4A	4	Miconia prasina	native	5	19.63	0.0491	
4A	4	Miconia prasina	native	5	19.63	0.0491	
4A	4	Peltophorum pterocarpium	exotic	1	0.79	0.0020	
4B	1	Andira inermis	native	8	50.27	0.1257	
4B	1	Calophyllum calaba	native	1	0.79	0.0020	
4B	1	Calophyllum calaba	native	1	0.79	0.0020	
4B	1	Calophyllum calaba	native	1	0.79	0.0020	
4B	1	Calophyllum calaba	native	1	0.79	0.0020	
4B	1	Calophyllum calaba	native	2	3.14	0.0079	
4B	1	Calophyllum calaba	native	2	3.14	0.0079	
4B	1	Calophyllum calaba	native	3	7.07	0.0177	
4B	1	Casearia decandra	native	1	0.79	0.0020	
4B	1	Casearia decandra	native	1	0.79	0.0020	
4B	1	Erythrina poeppigiana	exotic	1	0.79	0.0020	
4B	1	Guarea guidonia	native	1	0.79	0.0020	
4B	1	Guarea guidonia	native	1	0.79	0.0020	
4B	1	Guarea guidonia	native	1	0.79	0.0020	
4B	1	Guarea guidonia	native	1	0.79	0.0020	
4B	1	Guarea guidonia	native	1	0.79	0.0020	
4B	1	Guarea guidonia	native	1	0.79	0.0020	
4B	1	Guarea guidonia	native	2	3.14	0.0079	
4B	1	Guarea ramiflora	native	1	0.79	0.0020	
4B	1	Guarea ramiflora	native	2	3.14	0.0079	
4B	1	Guarea ramiflora	native	2	3.14	0.0079	
4B	1	Hibiscus elatus	exotic	5	19.63	0.0491	g
4B	1	Hibiscus elatus	exotic	6	28.27	0.0707	g

4B	1	Hibiscus elatus	exotic	6	28.27	0.0707	g
4B	1	Hibiscus elatus	exotic	76	4536.46	11.3411	g
4B	1	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	1	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	1	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	1	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	1	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	1	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	1	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	1	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	1	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	1	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	1	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	1	Hibiscus elatus	exotic	4	12.57	0.0314	
4B	1	Hibiscus elatus	exotic	4	12.57	0.0314	
4B	1	Miconia prasina	native	2	3.14	0.0079	
4B	1	Miconia prasina	native	3	7.07	0.0177	
4B	1	Miconia prasina	native	4	12.57	0.0314	
4B	1	Miconia prasina	native	7	38.48	0.0962	
4B	1	Parathesis crenulata	native	1	0.79	0.0020	
4B	1	Parathesis crenulata	native	1	0.79	0.0020	
4B	1	Parathesis crenulata	native	1	0.79	0.0020	
4B	1	Parathesis crenulata	native	1	0.79	0.0020	
4B	1	Parathesis crenulata	native	2	3.14	0.0079	
4B	1	Peltophorum pterocarpium	exotic	1	0.79	0.0020	
4B	1	Pinus caribea	exotic	22	380.13	0.9503	g
4B	1	Pinus caribea	exotic	53	2206.18	5.5155	g
4B	1	Sapium laurocerasus	native	1	0.79	0.0020	
4B	1	Syzygium jambos	exotic	1	0.79	0.0020	
4B	1	Syzygium jambos	exotic	1	0.79	0.0020	
4B	1	Syzygium jambos	exotic	1	0.79	0.0020	
4B	1	Syzygium jambos	exotic	4	12.57	0.0314	
4B	2	Calophyllum calaba	native	1	0.79	0.0020	
4B	2	Calophyllum calaba	native	1	0.79	0.0020	
4B	2	Calophyllum calaba	native	1	0.79	0.0020	
4B	2	Calophyllum calaba	native	1	0.79	0.0020	
4B	2	Calophyllum calaba	native	2	3.14	0.0079	
4B	2	Calophyllum calaba	native	3	7.07	0.0177	
4B	2	Calophyllum calaba	native	3	7.07	0.0177	
4B	2	Calophyllum calaba	native	3	7.07	0.0177	
4B	2	Calophyllum calaba	native	3	7.07	0.0177	
4B	2	Erythrina poeppigiana	exotic	3	7.07	0.0177	
4B	2	Guarea guidonia	native	1	0.79	0.0020	

4B	2	Guarea guidonia	native	12	113.10	0.2827	
4B	2	Guarea guidonia	native	25	490.87	1.2272	
4B	2	Hibiscus elatus	exotic	5	19.63	0.0491	g
4B	2	Hibiscus elatus	exotic	6	28.27	0.0707	g
4B	2	Hibiscus elatus	exotic	6	28.27	0.0707	g
4B	2	Hibiscus elatus	exotic	8	50.27	0.1257	g
4B	2	Hibiscus elatus	exotic	10	78.54	0.1963	g
4B	2	Hibiscus elatus	exotic	13	132.73	0.3318	g
4B	2	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	2	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	2	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	2	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	2	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	2	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	2	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	2	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	2	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	2	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	2	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	2	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	2	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	2	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	2	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	2	Hibiscus elatus	exotic	4	12.57	0.0314	
4B	2	Miconia prasina	native	5	19.63	0.0491	
4B	2	Parathesis crenulata	native	1	0.79	0.0020	
4B	2	Parathesis crenulata	native	1	0.79	0.0020	
4B	2	Parathesis crenulata	native	1	0.79	0.0020	
4B	2	Syzygium jambos	exotic	2	3.14	0.0079	
4B	2	Syzygium jambos	exotic	5	19.63	0.0491	
4B	2	Syzygium jambos	exotic	9	63.62	0.1590	
4B	2	Syzygium malaccense	exotic	10	78.54	0.1963	g
4B	2	Syzygium malaccense	exotic	3	7.07	0.0177	
4B	2	Syzygium malaccense	exotic	5	19.63	0.0491	
4B	2	Tectona grandis	exotic	22	380.13	0.9503	g
4B	3	Ardisia obovata	native	1	0.79	0.0020	
4B	3	Ardisia obovata	native	5	19.63	0.0491	
4B	3	Calophyllum calaba	native	1	0.79	0.0020	
4B	3	Calophyllum calaba	native	1	0.79	0.0020	
4B	3	Calophyllum calaba	native	1	0.79	0.0020	
4B	3	Calophyllum calaba	native	1	0.79	0.0020	
4B	3	Calophyllum calaba	native	2	3.14	0.0079	
4B	3	Calophyllum calaba	native	2	3.14	0.0079	

4B	3	Calophyllum calaba	native	2	3.14	0.0079	
4B	3	Calophyllum calaba	native	2	3.14	0.0079	
4B	3	Calophyllum calaba	native	5	19.63	0.0491	
4B	3	Erythrina poeppigiana	exotic	1	0.79	0.0020	
4B	3	Erythrina poeppigiana	exotic	4	12.57	0.0314	
4B	3	Guarea guidonia	native	21	346.36	0.8659	
4B	3	Hibiscus elatus	exotic	6	28.27	0.0707	g
4B	3	Hibiscus elatus	exotic	6	28.27	0.0707	g
4B	3	Hibiscus elatus	exotic	6	28.27	0.0707	
4B	3	Hibiscus elatus	exotic	6	28.27	0.0707	g
4B	3	Hibiscus elatus	exotic	50	1963.50	4.9087	g
4B	3	Hibiscus elatus	exotic	51	2042.82	5.1071	g
4B	3	Hibiscus elatus	exotic	68	3631.68	9.0792	g
4B	3	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	3	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	3	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	3	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	3	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	3	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	3	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	3	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	3	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	3	Hibiscus elatus	exotic	3	7.07	0.0177	
4B	3	Hibiscus elatus	exotic	4	12.57	0.0314	
4B	3	Hibiscus elatus	exotic	4	12.57	0.0314	
4B	3	Hibiscus elatus	exotic	4	12.57	0.0314	
4B	3	Hibiscus elatus	exotic	4	12.57	0.0314	
4B	3	Hibiscus elatus	exotic	4	12.57	0.0314	
4B	3	Parathesis crenulata	native	1	0.79	0.0020	
4B	3	Syzygium jambos	exotic	1	0.79	0.0020	
4B	3	Syzygium jambos	exotic	1	0.79	0.0020	
4B	3	Tabebuia heterophylla	native	5	19.63	0.0491	
4B	4	Calophyllum calaba	native	1	0.79	0.0020	
4B	4	Calophyllum calaba	native	1	0.79	0.0020	
4B	4	Calophyllum calaba	native	1	0.79	0.0020	
4B	4	Calophyllum calaba	native	1	0.79	0.0020	
4B	4	Calophyllum calaba	native	1	0.79	0.0020	
4B	4	Calophyllum calaba	native	1	0.79	0.0020	
4B	4	Calophyllum calaba	native	1	0.79	0.0020	
4B	4	Calophyllum calaba	native	1	0.79	0.0020	
4B	4	Calophyllum calaba	native	1	0.79	0.0020	
4B	4	Calophyllum calaba	native	2	3.14	0.0079	
4B	4	Calophyllum calaba	native	3	7.07	0.0177	
4B	4	Calophyllum calaba	native	3	7.07	0.0177	
4B	4	Calophyllum calaba	native	3	7.07	0.0177	
4B	4	Calophyllum calaba	native	3	7.07	0.0177	

4B	4	Calophyllum calaba	native	3	7.07	0.0177	
4B	4	Calophyllum calaba	native	3	7.07	0.0177	
4B	4	Calophyllum calaba	native	4	12.57	0.0314	
4B	4	Erythrina poeppigiana	exotic	2	3.14	0.0079	
4B	4	Erythrina poeppigiana	exotic	3	7.07	0.0177	
4B	4	Guarea guidonia	native	5	19.63	0.0491	
4B	4	Guarea guidonia	native	12	113.10	0.2827	
4B	4	Guarea ramiflora	native	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	4	12.57	0.0314	g
4B	4	Hibiscus elatus	exotic	4	12.57	0.0314	g
4B	4	Hibiscus elatus	exotic	11	95.03	0.2376	g
4B	4	Hibiscus elatus	exotic	13	132.73	0.3318	g
4B	4	Hibiscus elatus	exotic	76	4536.46	11.3411	g
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	1	0.79	0.0020	
4B	4	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	4	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	4	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	4	Hibiscus elatus	exotic	2	3.14	0.0079	
4B	4	Miconia prasina	native	1	0.79	0.0020	
4B	4	Miconia prasina	native	1	0.79	0.0020	
4B	4	Miconia prasina	native	1	0.79	0.0020	
4B	4	Miconia prasina	native	1	0.79	0.0020	
4B	4	Miconia prasina	native	1	0.79	0.0020	
4B	4	Miconia prasina	native	1	0.79	0.0020	
4B	4	Miconia prasina	native	1	0.79	0.0020	
4B	4	Miconia prasina	native	1	0.79	0.0020	
4B	4	Miconia prasina	native	1	0.79	0.0020	
4B	4	Miconia prasina	native	3	7.07	0.0177	
4B	4	Miconia prasina	native	3	7.07	0.0177	
4B	4	Miconia prasina	native	3	7.07	0.0177	
4B	4	Miconia prasina	native	4	12.57	0.0314	
4B	4	Parathesis crenulata	native	1	0.79	0.0020	
4B	4	Parathesis crenulata	native	1	0.79	0.0020	

4B	4	Parathesis crenulata	native	2	3.14	0.0079
4B	4	Parathesis crenulata	native	2	3.14	0.0079
4B	4	Peltophorum pterocarpium	exotic	1	0.79	0.0020
4B	4	Syzygium jambos	exotic	1	0.79	0.0020
4B	4	Syzygium jambos	exotic	2	3.14	0.0079
4B	4	Syzygium jambos	exotic	2	3.14	0.0079
4B	4	Syzygium jambos	exotic	3	7.07	0.0177
4B	4	Syzygium jambos	exotic	3	7.07	0.0177
4B	4	Syzygium jambos	exotic	5	19.63	0.0491
4B	4	Tabebuia heterophylla	native	3	7.07	0.0177
5A	1	Andira inermis	native	2	3.14	0.0079
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020
5A	1	Calophyllum calaba	native	1	0.79	0.0020





5A	1	Calophyllum calaba	native	2	3.14	0.0079
5A	1	Calophyllum calaba	native	2	3.14	0.0079
5A	1	Calophyllum calaba	native	2	3.14	0.0079
5A	1	Calophyllum calaba	native	2	3.14	0.0079
5A	1	Calophyllum calaba	native	2	3.14	0.0079
5A	1	Calophyllum calaba	native	2	3.14	0.0079
5A	1	Calophyllum calaba	native	2	3.14	0.0079
5A	1	Calophyllum calaba	native	2	3.14	0.0079
5A	1	Calophyllum calaba	native	3	7.07	0.0177
5A	1	Calophyllum calaba	native	3	7.07	0.0177
5A	1	Calophyllum calaba	native	4	12.57	0.0314
5A	1	Calophyllum calaba	native	4	12.57	0.0314
5A	1	Calophyllum calaba	native	4	12.57	0.0314
5A	1	Calophyllum calaba	native	5	19.63	0.0491
5A	1	Calophyllum calaba	native	5	19.63	0.0491
5A	1	Calophyllum calaba	native	5	19.63	0.0491
5A	1	Calophyllum calaba	native	5	19.63	0.0491
5A	1	Calophyllum calaba	native	5	19.63	0.0491
5A	1	Calophyllum calaba	native	5	19.63	0.0491
5A	1	Calophyllum calaba	native	5	19.63	0.0491
5A	1	Calophyllum calaba	native	6	28.27	0.0707
5A	1	Calophyllum calaba	native	6	28.27	0.0707
5A	1	Calophyllum calaba	native	6	28.27	0.0707
5A	1	Calophyllum calaba	native	9	63.62	0.1590
5A	1	Guarea guidonia	native	5	19.63	0.0491
5A	1	Hibiscus elatus	exotic	11	95.03	0.2376
5A	1	Hibiscus elatus	exotic	11	95.03	0.2376
5A	1	Hibiscus elatus	exotic	11	95.03	0.2376
5A	1	Hibiscus elatus	exotic	15	176.71	0.4418
5A	1	Hibiscus elatus	exotic	17	226.98	0.5675
5A	1	Hibiscus elatus	exotic	18	254.47	0.6362
5A	1	Hibiscus elatus	exotic	19	283.53	0.7088
5A	1	Hibiscus elatus	exotic	20	314.16	0.7854
5A	1	Hibiscus elatus	exotic	22	380.13	0.9503
5A	1	Hibiscus elatus	exotic	23	415.48	1.0387
5A	1	Hibiscus elatus	exotic	31	754.77	1.8869
5A	1	Hibiscus elatus	exotic	31	754.77	1.8869
5A	1	Hibiscus elatus	exotic	33	855.30	2.1382
5A	1	Neolaugeria resinosa	native	1	0.79	0.0020
5A	1	Roystonea borinquena	native	36	1017.88	2.5447
5A	2	Calophyllum calaba	native	1	0.79	0.0020
5A	2	Calophyllum calaba	native	1	0.79	0.0020
5A	2	Calophyllum calaba	native	1	0.79	0.0020
5A	2	Calophyllum calaba	native	1	0.79	0.0020
5A	2	Calophyllum calaba	native	1	0.79	0.0020





5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	2	3.14	0.0079
5A	2	Calophyllum calaba	native	3	7.07	0.0177
5A	2	Calophyllum calaba	native	3	7.07	0.0177
5A	2	Calophyllum calaba	native	3	7.07	0.0177
5A	2	Calophyllum calaba	native	3	7.07	0.0177
5A	2	Calophyllum calaba	native	3	7.07	0.0177
5A	2	Calophyllum calaba	native	3	7.07	0.0177
5A	2	Calophyllum calaba	native	3	7.07	0.0177
5A	2	Calophyllum calaba	native	3	7.07	0.0177
5A	2	Calophyllum calaba	native	3	7.07	0.0177
5A	2	Calophyllum calaba	native	3	7.07	0.0177
5A	2	Calophyllum calaba	native	4	12.57	0.0314
5A	2	Calophyllum calaba	native	5	19.63	0.0491
5A	2	Calophyllum calaba	native	6	28.27	0.0707
5A	2	Calophyllum calaba	native	6	28.27	0.0707
5A	2	Calophyllum calaba	native	13	132.73	0.3318
5A	2	Casearia sylvestris	native	2	3.14	0.0079
5A	2	Eugenia monticola	native	6	28.27	0.0707
5A	2	Hibiscus elatus	exotic	5	19.63	0.0491
5A	2	Hibiscus elatus	exotic	8	50.27	0.1257
5A	2	Hibiscus elatus	exotic	12	113.10	0.2827
5A	2	Hibiscus elatus	exotic	12	113.10	0.2827
5A	2	Hibiscus elatus	exotic	14	153.94	0.3848
5A	2	Hibiscus elatus	exotic	14	153.94	0.3848
5A	2	Hibiscus elatus	exotic	16	201.06	0.5027
5A	2	Hibiscus elatus	exotic	18	254.47	0.6362
5A	2	Hibiscus elatus	exotic	19	283.53	0.7088
5A	2	Hibiscus elatus	exotic	20	314.16	0.7854
5A	2	Hibiscus elatus	exotic	23	415.48	1.0387
5A	2	Hibiscus elatus	exotic	26	530.93	1.3273
5A	2	Hibiscus elatus	exotic	31	754.77	1.8869
5A	2	Ocotea leucoxydon	native	3	7.07	0.0177
5A	2	Roystonea borinquena	native	39	1194.59	2.9865
5A	3	Andira inermis	native	2	3.14	0.0079





5A	3	Calophyllum calaba	native	1	0.79	0.0020
5A	3	Calophyllum calaba	native	1	0.79	0.0020
5A	3	Calophyllum calaba	native	1	0.79	0.0020
5A	3	Calophyllum calaba	native	1	0.79	0.0020
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	2	3.14	0.0079
5A	3	Calophyllum calaba	native	3	7.07	0.0177
5A	3	Calophyllum calaba	native	3	7.07	0.0177
5A	3	Calophyllum calaba	native	3	7.07	0.0177
5A	3	Calophyllum calaba	native	3	7.07	0.0177
5A	3	Calophyllum calaba	native	3	7.07	0.0177
5A	3	Calophyllum calaba	native	3	7.07	0.0177
5A	3	Calophyllum calaba	native	3	7.07	0.0177
5A	3	Calophyllum calaba	native	6	28.27	0.0707
5A	3	Hibiscus elatus	exotic	6	28.27	0.0707
5A	3	Hibiscus elatus	exotic	7	38.48	0.0962
5A	3	Hibiscus elatus	exotic	13	132.73	0.3318
5A	3	Hibiscus elatus	exotic	14	153.94	0.3848
5A	3	Hibiscus elatus	exotic	15	176.71	0.4418
5A	3	Hibiscus elatus	exotic	15	176.71	0.4418
5A	3	Hibiscus elatus	exotic	20	314.16	0.7854
5A	3	Hibiscus elatus	exotic	24	452.39	1.1310
5A	3	Hibiscus elatus	exotic	27	572.56	1.4314
5A	3	Hibiscus elatus	exotic	27	572.56	1.4314
5A	3	Hibiscus elatus	exotic	35	962.11	2.4053
5A	3	Miconia prasina	native	1	0.79	0.0020
5A	3	Strong bark	native	1	0.79	0.0020
5A	3	Thouinia striata	native	7	38.48	0.0962
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020







5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	1	0.79	0.0020
5A	4	Calophyllum calaba	native	2	3.14	0.0079
5A	4	Calophyllum calaba	native	2	3.14	0.0079
5A	4	Calophyllum calaba	native	2	3.14	0.0079
5A	4	Calophyllum calaba	native	2	3.14	0.0079
5A	4	Calophyllum calaba	native	3	7.07	0.0177
5A	4	Calophyllum calaba	native	3	7.07	0.0177
5A	4	Calophyllum calaba	native	3	7.07	0.0177
5A	4	Hibiscus elatus	exotic	4	12.57	0.0314
5A	4	Hibiscus elatus	exotic	4	12.57	0.0314
5A	4	Hibiscus elatus	exotic	6	28.27	0.0707
5A	4	Hibiscus elatus	exotic	8	50.27	0.1257
5A	4	Hibiscus elatus	exotic	9	63.62	0.1590
5A	4	Hibiscus elatus	exotic	10	78.54	0.1963
5A	4	Hibiscus elatus	exotic	10	78.54	0.1963
5A	4	Hibiscus elatus	exotic	11	95.03	0.2376

5A	4	Hibiscus elatus	exotic	13	132.73	0.3318
5A	4	Hibiscus elatus	exotic	13	132.73	0.3318
5A	4	Hibiscus elatus	exotic	13	132.73	0.3318
5A	4	Hibiscus elatus	exotic	16	201.06	0.5027
5A	4	Hibiscus elatus	exotic	16	201.06	0.5027
5A	4	Hibiscus elatus	exotic	16	201.06	0.5027
5A	4	Hibiscus elatus	exotic	17	226.98	0.5675
5A	4	Hibiscus elatus	exotic	17	226.98	0.5675
5A	4	Hibiscus elatus	exotic	18	254.47	0.6362
5A	4	Hibiscus elatus	exotic	19	283.53	0.7088
5A	4	Hibiscus elatus	exotic	23	415.48	1.0387
5A	4	Hibiscus elatus	exotic	24	452.39	1.1310
5A	4	Hibiscus elatus	exotic	25	490.87	1.2272
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020
5B	1	Calophyllum calaba	native	1	0.79	0.0020

5B	1	Calophyllum calaba	native	1	0.79	0.0020	
5B	1	Calophyllum calaba	native	1	0.79	0.0020	
5B	1	Calophyllum calaba	native	1	0.79	0.0020	
5B	1	Calophyllum calaba	native	1	0.79	0.0020	
5B	1	Calophyllum calaba	native	1	0.79	0.0020	
5B	1	Calophyllum calaba	native	1	0.79	0.0020	
5B	1	Calophyllum calaba	native	1	0.79	0.0020	
5B	1	Calophyllum calaba	native	1	0.79	0.0020	
5B	1	Calophyllum calaba	native	1	0.79	0.0020	
5B	1	Calophyllum calaba	native	1	0.79	0.0020	
5B	1	Calophyllum calaba	native	1	0.79	0.0020	
5B	1	Calophyllum calaba	native	2	3.14	0.0079	
5B	1	Casearia sylvestris	native	1	0.79	0.0020	
5B	1	Casearia sylvestris	native	10	78.54	0.1963	
5B	1	Dendropanax arboreus	native	25	490.87	1.2272	
5B	1	Guarea guidonia	native	18	254.47	0.6362	
5B	1	Guarea guidonia	native	19	283.53	0.7088	
5B	1	Hibiscus elatus	exotic	6	28.27	0.0707	g
5B	1	Hibiscus elatus	exotic	7	38.48	0.0962	g
5B	1	Hibiscus elatus	exotic	11	95.03	0.2376	g
5B	1	Hibiscus elatus	exotic	12	113.10	0.2827	g
5B	1	Hibiscus elatus	exotic	14	153.94	0.3848	g
5B	1	Hibiscus elatus	exotic	36	1017.88	2.5447	g
5B	1	Hibiscus elatus	exotic	36	1017.88	2.5447	g
5B	1	Hibiscus elatus	exotic	1	0.79	0.0020	
5B	1	Hibiscus elatus	exotic	2	3.14	0.0079	
5B	1	Hibiscus elatus	exotic	2	3.14	0.0079	
5B	1	Hibiscus elatus	exotic	4	12.57	0.0314	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	

5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	1	0.79	0.0020	
5B	2	Calophyllum calaba	native	3	7.07	0.0177	
5B	2	Calophyllum calaba	native	3	7.07	0.0177	
5B	2	Calophyllum calaba	native	9	63.62	0.1590	
5B	2	Calophyllum calaba	native	12	113.10	0.2827	
5B	2	Guarea guidonia	native	4	12.57	0.0314	
5B	2	Hibiscus elatus	exotic	13	132.73	0.3318	g
5B	2	Hibiscus elatus	exotic	19	283.53	0.7088	g
5B	2	Hibiscus elatus	exotic	20	314.16	0.7854	g
5B	2	Hibiscus elatus	exotic	20	314.16	0.7854	g
5B	2	Hibiscus elatus	exotic	20	314.16	0.7854	g
5B	2	Hibiscus elatus	exotic	25	490.87	1.2272	g
5B	2	Hibiscus elatus	exotic	27	572.56	1.4314	g
5B	2	Hibiscus elatus	exotic	40	1256.64	3.1416	g
5B	2	Hibiscus elatus	exotic	4	12.57	0.0314	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	1	0.79	0.0020	
5B	3	Calophyllum calaba	native	2	3.14	0.0079	

5B	3	Calophyllum calaba	native	2	3.14	0.0079	
5B	3	Calophyllum calaba	native	2	3.14	0.0079	
5B	3	Calophyllum calaba	native	2	3.14	0.0079	
5B	3	Calophyllum calaba	native	2	3.14	0.0079	
5B	3	Calophyllum calaba	native	2	3.14	0.0079	
5B	3	Calophyllum calaba	native	4	12.57	0.0314	
5B	3	Calophyllum calaba	native	10	78.54	0.1963	
5B	3	Hibiscus elatus	exotic	2	3.14	0.0079	g
5B	3	Hibiscus elatus	exotic	4	12.57	0.0314	g
5B	3	Hibiscus elatus	exotic	4	12.57	0.0314	g
5B	3	Hibiscus elatus	exotic	4	12.57	0.0314	g
5B	3	Hibiscus elatus	exotic	14	153.94	0.3848	g
5B	3	Hibiscus elatus	exotic	17	226.98	0.5675	g
5B	3	Hibiscus elatus	exotic	17	226.98	0.5675	g
5B	3	Hibiscus elatus	exotic	19	283.53	0.7088	g
5B	3	Hibiscus elatus	exotic	20	314.16	0.7854	g
5B	3	Hibiscus elatus	exotic	21	346.36	0.8659	g
5B	3	Hibiscus elatus	exotic	21	346.36	0.8659	g
5B	3	Hibiscus elatus	exotic	22	380.13	0.9503	g
5B	3	Hibiscus elatus	exotic	22	380.13	0.9503	g
5B	3	Hibiscus elatus	exotic	27	572.56	1.4314	g
5B	3	Hibiscus elatus	exotic	28	615.75	1.5394	g
5B	3	Hibiscus elatus	exotic	32	804.25	2.0106	g
5B	3	Hibiscus elatus	exotic	36	1017.88	2.5447	g
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	

5B	4	Calophyllum calaba	native	1	0.79	0.0020	
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5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	1	0.79	0.0020	
5B	4	Calophyllum calaba	native	2	3.14	0.0079	
5B	4	Calophyllum calaba	native	2	3.14	0.0079	
5B	4	Calophyllum calaba	native	4	12.57	0.0314	
5B	4	Calophyllum calaba	native	5	19.63	0.0491	
5B	4	Guarea guidonia	native	16	201.06	0.5027	
5B	4	Guarea guidonia	native	19	283.53	0.7088	
5B	4	Guarea guidonia	native	19	283.53	0.7088	
5B	4	Hibiscus elatus	exotic	6	28.27	0.0707	g
5B	4	Hibiscus elatus	exotic	6	28.27	0.0707	g
5B	4	Hibiscus elatus	exotic	7	38.48	0.0962	g
5B	4	Hibiscus elatus	exotic	8	50.27	0.1257	g
5B	4	Hibiscus elatus	exotic	10	78.54	0.1963	g
5B	4	Hibiscus elatus	exotic	13	132.73	0.3318	g
5B	4	Hibiscus elatus	exotic	16	201.06	0.5027	g
5B	4	Hibiscus elatus	exotic	20	314.16	0.7854	g
5B	4	Hibiscus elatus	exotic	22	380.13	0.9503	g
5B	4	Hibiscus elatus	exotic	27	572.56	1.4314	g
5B	4	Hibiscus elatus	exotic	28	615.75	1.5394	g



5B	4	Hibiscus elatus	exotic	31	754.77	1.8869	g
6A	1	Andira inermis	native	4	12.57	0.0314	
6A	1	Andira inermis	native	4	12.57	0.0314	
6A	1	Castilla elastica	exotic	1	0.79	0.0020	
6A	1	Castilla elastica	exotic	2	3.14	0.0079	
6A	1	Castilla elastica	exotic	2	3.14	0.0079	
6A	1	Castilla elastica	exotic	2	3.14	0.0079	
6A	1	Castilla elastica	exotic	2	3.14	0.0079	
6A	1	Castilla elastica	exotic	3	7.07	0.0177	
6A	1	Castilla elastica	exotic	3	7.07	0.0177	
6A	1	Castilla elastica	exotic	3	7.07	0.0177	
6A	1	Castilla elastica	exotic	4	12.57	0.0314	
6A	1	Castilla elastica	exotic	5	19.63	0.0491	
6A	1	Castilla elastica	exotic	6	28.27	0.0707	
6A	1	Castilla elastica	exotic	9	63.62	0.1590	
6A	1	Cestrum macrophyllum	native	3	7.07	0.0177	
6A	1	Coffea arabica	exotic	1	0.79	0.0020	
6A	1	Guarea guidonia	native	2	3.14	0.0079	
6A	1	Guarea guidonia	native	5	19.63	0.0491	
6A	1	Hibiscus elatus	exotic	3	7.07	0.0177	g
6A	1	Hibiscus elatus	exotic	6	28.27	0.0707	g
6A	1	Hibiscus elatus	exotic	6	28.27	0.0707	g
6A	1	Hibiscus elatus	exotic	8	50.27	0.1257	g
6A	1	Hibiscus elatus	exotic	8	50.27	0.1257	g
6A	1	Hibiscus elatus	exotic	9	63.62	0.1590	g
6A	1	Hibiscus elatus	exotic	15	176.71	0.4418	g
6A	1	Hibiscus elatus	exotic	15	176.71	0.4418	g
6A	1	Hibiscus elatus	exotic	33	855.30	2.1382	g
6A	1	Hibiscus elatus	exotic	38	1134.11	2.8353	g
6A	1	Hibiscus elatus	exotic	43	1452.20	3.6305	g
6A	1	Hibiscus elatus	exotic	50	1963.50	4.9087	g
6A	1	Hibiscus elatus	exotic	51	2042.82	5.1071	g
6A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
6A	1	Hibiscus elatus	exotic	1	0.79	0.0020	
6A	1	Hibiscus elatus	exotic	3	7.07	0.0177	
6A	1	Hibiscus elatus	exotic	4	12.57	0.0314	
6A	1	Hibiscus elatus	exotic	4	12.57	0.0314	
6A	1	Hibiscus elatus	exotic	39	1194.59	2.9865	
6A	1	Miconia prasina	native	2	3.14	0.0079	
6A	1	Miconia prasina	native	2	3.14	0.0079	
6A	1	Miconia prasina	native	2	3.14	0.0079	
6A	1	Miconia prasina	native	3	7.07	0.0177	
6A	1	Ocotea leucoxydon	native	3	7.07	0.0177	
6A	1	Syzygium jambos	exotic	6	28.27	0.0707	

6A	2	Andira inermis	native	2	3.14	0.0079	
6A	2	Andira inermis	native	3	7.07	0.0177	
6A	2	Andira inermis	native	3	7.07	0.0177	
6A	2	Andira inermis	native	4	12.57	0.0314	
6A	2	Castilla elastica	exotic	1	0.79	0.0020	
6A	2	Castilla elastica	exotic	3	7.07	0.0177	
6A	2	Castilla elastica	exotic	3	7.07	0.0177	
6A	2	Castilla elastica	exotic	3	7.07	0.0177	
6A	2	Castilla elastica	exotic	4	12.57	0.0314	
6A	2	Castilla elastica	exotic	5	19.63	0.0491	
6A	2	Cestrum macrophyllum	native	3	7.07	0.0177	
6A	2	Cinamomum montanum	native	3	7.07	0.0177	
6A	2	Dendropanax arboreus	native	3	7.07	0.0177	
6A	2	Dendropanax arboreus	native	3	7.07	0.0177	
6A	2	Guarea guidonia	native	1	0.79	0.0020	
6A	2	Guarea guidonia	native	1	0.79	0.0020	
6A	2	Guarea guidonia	native	3	7.07	0.0177	
6A	2	Guettarda ovalifolia	native	2	3.14	0.0079	
6A	2	Hibiscus elatus	exotic	6	28.27	0.0707	g
6A	2	Hibiscus elatus	exotic	6	28.27	0.0707	g
6A	2	Hibiscus elatus	exotic	8	50.27	0.1257	g
6A	2	Hibiscus elatus	exotic	35	962.11	2.4053	g
6A	2	Hibiscus elatus	exotic	37	1075.21	2.6880	g
6A	2	Hibiscus elatus	exotic	49	1885.74	4.7144	g
6A	2	Hibiscus elatus	exotic	3	7.07	0.0177	
6A	2	Hibiscus elatus	exotic	4	12.57	0.0314	
6A	2	Miconia prasina	native	1	0.79	0.0020	
6A	2	Miconia prasina	native	1	0.79	0.0020	
6A	2	Miconia prasina	native	1	0.79	0.0020	
6A	2	Miconia prasina	native	2	3.14	0.0079	
6A	2	Miconia prasina	native	3	7.07	0.0177	
6A	2	Miconia prasina	native	4	12.57	0.0314	
6A	2	Miconia prasina	native	4	12.57	0.0314	
6A	2	Miconia prasina	native	5	19.63	0.0491	
6A	2	Miconia prasina	native	5	19.63	0.0491	
6A	2	Miconia prasina	native	5	19.63	0.0491	
6A	2	Picramnia pentandra	native	1	0.79	0.0020	
6A	2	Spathodea campanulata	exotic	3	7.07	0.0177	
6A	2	Spondias dulcis	exotic	4	12.57	0.0314	
6A	2	Syzygium jambos	exotic	2	3.14	0.0079	
6A	2	Syzygium jambos	exotic	3	7.07	0.0177	
6A	2	Syzygium jambos	exotic	7	38.48	0.0962	
6A	2	Syzygium jambos	exotic	8	50.27	0.1257	
6A	2	Thouinia striata	native	2	3.14	0.0079	

6A	3	Andira inermis	native	2	3.14	0.0079	
6A	3	Andira inermis	native	3	7.07	0.0177	
6A	3	Andira inermis	native	3	7.07	0.0177	
6A	3	Andira inermis	native	4	12.57	0.0314	
6A	3	Calophyllum calaba	native	1	0.79	0.0020	
6A	3	Castilla elastica	exotic	2	3.14	0.0079	
6A	3	Castilla elastica	exotic	5	19.63	0.0491	
6A	3	Castilla elastica	exotic	6	28.27	0.0707	
6A	3	Guarea guidonia	native	1	0.79	0.0020	
6A	3	Guarea guidonia	native	2	3.14	0.0079	
6A	3	Guarea guidonia	native	2	3.14	0.0079	
6A	3	Guarea guidonia	native	2	3.14	0.0079	
6A	3	Guarea guidonia	native	2	3.14	0.0079	
6A	3	Guarea guidonia	native	2	3.14	0.0079	
6A	3	Guarea guidonia	native	3	7.07	0.0177	
6A	3	Guarea guidonia	native	3	7.07	0.0177	
6A	3	Guarea guidonia	native	3	7.07	0.0177	
6A	3	Guarea guidonia	native	4	12.57	0.0314	
6A	3	Hibiscus elatus	exotic	6	28.27	0.0707	g
6A	3	Hibiscus elatus	exotic	6	28.27	0.0707	g
6A	3	Hibiscus elatus	exotic	9	63.62	0.1590	g
6A	3	Hibiscus elatus	exotic	38	1134.11	2.8353	g
6A	3	Hibiscus elatus	exotic	3	7.07	0.0177	
6A	3	Hibiscus elatus	exotic	4	12.57	0.0314	
6A	3	Hibiscus elatus	exotic	4	12.57	0.0314	
6A	3	Miconia prasina	native	1	0.79	0.0020	
6A	3	Miconia prasina	native	1	0.79	0.0020	
6A	3	Miconia prasina	native	1	0.79	0.0020	
6A	3	Miconia prasina	native	1	0.79	0.0020	
6A	3	Miconia prasina	native	5	19.63	0.0491	
6A	3	Ocotea leucoxylon	native	1	0.79	0.0020	
6A	3	Ocotea leucoxylon	native	5	19.63	0.0491	
6A	3	Parathesis crenulata	native	1	0.79	0.0020	
6A	3	Parathesis crenulata	native	2	3.14	0.0079	
6A	3	Parathesis crenulata	native	3	7.07	0.0177	
6A	3	Syzygium jambos	exotic	3	7.07	0.0177	
6A	3	Syzygium jambos	exotic	4	12.57	0.0314	
6A	3	Syzygium jambos	exotic	5	19.63	0.0491	
6A	3	Syzygium jambos	exotic	10	78.54	0.1963	
6A	4	Andira inermis	native	1	0.79	0.0020	
6A	4	Andira inermis	native	1	0.79	0.0020	
6A	4	Andira inermis	native	2	3.14	0.0079	
6A	4	Calophyllum calaba	native	1	0.79	0.0020	
6A	4	Casearia sylvestris	native	1	0.79	0.0020	

6A	4	Castilla elastica	exotic	2	3.14	0.0079	
6A	4	Castilla elastica	exotic	2	3.14	0.0079	
6A	4	Castilla elastica	exotic	3	7.07	0.0177	
6A	4	Castilla elastica	exotic	3	7.07	0.0177	
6A	4	Castilla elastica	exotic	3	7.07	0.0177	
6A	4	Castilla elastica	exotic	3	7.07	0.0177	
6A	4	Castilla elastica	exotic	3	7.07	0.0177	
6A	4	Castilla elastica	exotic	4	12.57	0.0314	
6A	4	Castilla elastica	exotic	4	12.57	0.0314	
6A	4	Castilla elastica	exotic	4	12.57	0.0314	
6A	4	Castilla elastica	exotic	4	12.57	0.0314	
6A	4	Castilla elastica	exotic	4	12.57	0.0314	
6A	4	Castilla elastica	exotic	5	19.63	0.0491	
6A	4	Castilla elastica	exotic	5	19.63	0.0491	
6A	4	Castilla elastica	exotic	7	38.48	0.0962	
6A	4	Guarea guidonia	native	1	0.79	0.0020	
6A	4	Guarea guidonia	native	3	7.07	0.0177	
6A	4	Guarea guidonia	native	3	7.07	0.0177	
6A	4	Hibiscus elatus	exotic	3	7.07	0.0177	g
6A	4	Hibiscus elatus	exotic	4	12.57	0.0314	g
6A	4	Hibiscus elatus	exotic	8	50.27	0.1257	g
6A	4	Hibiscus elatus	exotic	17	226.98	0.5675	g
6A	4	Hibiscus elatus	exotic	41	1320.25	3.3006	g
6A	4	Hibiscus elatus	exotic	45	1590.43	3.9761	g
6A	4	Hibiscus elatus	exotic	45	1590.43	3.9761	g
6A	4	Hibiscus elatus	exotic	45	1590.43	3.9761	g
6A	4	Hibiscus elatus	exotic	1	0.79	0.0020	
6A	4	Hibiscus elatus	exotic	1	0.79	0.0020	
6A	4	Hibiscus elatus	exotic	1	0.79	0.0020	
6A	4	Miconia prasina	native	1	0.79	0.0020	
6A	4	Miconia prasina	native	1	0.79	0.0020	
6A	4	Miconia prasina	native	2	3.14	0.0079	
6A	4	Miconia prasina	native	2	3.14	0.0079	
6A	4	Miconia prasina	native	2	3.14	0.0079	
6A	4	Miconia prasina	native	3	7.07	0.0177	
6A	4	Miconia prasina	native	3	7.07	0.0177	
6A	4	Miconia prasina	native	5	19.63	0.0491	
6A	4	Syzygium jambos	exotic	1	0.79	0.0020	
6A	4	Syzygium jambos	exotic	1	0.79	0.0020	
6A	4	Syzygium jambos	exotic	1	0.79	0.0020	
6A	4	Syzygium jambos	exotic	1	0.79	0.0020	
6A	4	Syzygium jambos	exotic	2	3.14	0.0079	
6A	4	Syzygium jambos	exotic	3	7.07	0.0177	
6A	4	Syzygium jambos	exotic	4	12.57	0.0314	

6A	4	<i>Syzygium jambos</i>	exotic	4	12.57	0.0314
6A	4	<i>Syzygium jambos</i>	exotic	5	19.63	0.0491
6B	1	<i>Andira inermis</i>	native	3	7.07	0.0177
6B	1	<i>Bucida buceris</i>	native	2	3.14	0.0079
6B	1	<i>Casearia guianensis</i>	native	2	3.14	0.0079
6B	1	<i>Castilla elastica</i>	exotic	1	0.79	0.0020
6B	1	<i>Castilla elastica</i>	exotic	1	0.79	0.0020
6B	1	<i>Castilla elastica</i>	exotic	1	0.79	0.0020
6B	1	<i>Castilla elastica</i>	exotic	2	3.14	0.0079
6B	1	<i>Castilla elastica</i>	exotic	2	3.14	0.0079
6B	1	<i>Castilla elastica</i>	exotic	9	63.62	0.1590
6B	1	<i>Dendropanax arboreus</i>	native	1	0.79	0.0020
6B	1	<i>Dendropanax arboreus</i>	native	2	3.14	0.0079
6B	1	<i>Dendropanax arboreus</i>	native	3	7.07	0.0177
6B	1	<i>Erythrina poeppigiana</i>	exotic	4	12.57	0.0314
6B	1	<i>Genipa americana</i>	native	1	0.79	0.0020
6B	1	<i>Genipa americana</i>	native	3	7.07	0.0177
6B	1	<i>Guarea guidonia</i>	native	1	0.79	0.0020
6B	1	<i>Guarea guidonia</i>	native	1	0.79	0.0020
6B	1	<i>Guarea guidonia</i>	native	1	0.79	0.0020
6B	1	<i>Guarea guidonia</i>	native	1	0.79	0.0020
6B	1	<i>Guarea guidonia</i>	native	1	0.79	0.0020
6B	1	<i>Guarea guidonia</i>	native	3	7.07	0.0177
6B	1	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
6B	1	<i>Hibiscus elatus</i>	exotic	1	0.79	0.0020
6B	1	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
6B	1	<i>Hibiscus elatus</i>	exotic	2	3.14	0.0079
6B	1	<i>Hibiscus elatus</i>	exotic	3	7.07	0.0177
6B	1	<i>Hibiscus elatus</i>	exotic	10	78.54	0.1963
6B	1	<i>Hibiscus elatus</i>	exotic	32	804.25	2.0106
6B	1	<i>Inga vera</i>	native	1	0.79	0.0020
6B	1	<i>Inga vera</i>	native	1	0.79	0.0020
6B	1	<i>Inga vera</i>	native	1	0.79	0.0020
6B	1	<i>Inga vera</i>	native	1	0.79	0.0020
6B	1	<i>Inga vera</i>	native	3	7.07	0.0177
6B	1	<i>Inga vera</i>	native	3	7.07	0.0177
6B	1	<i>Inga vera</i>	native	5	19.63	0.0491
6B	1	<i>Ocotea leucoxydon</i>	native	1	0.79	0.0020
6B	1	<i>Ocotea leucoxydon</i>	native	2	3.14	0.0079
6B	1	<i>Ocotea leucoxydon</i>	native	3	7.07	0.0177
6B	1	<i>Pithecellobium arboreum</i>	native	1	0.79	0.0020
6B	1	<i>Quararibaea turbinata</i>	native	4	12.57	0.0314
6B	1	<i>Quararibaea turbinata</i>	native	4	12.57	0.0314
6B	1	<i>Zanthoxylum martinicense</i>	native	2	3.14	0.0079

6B	2	Andira inermis	native	1	0.79	0.0020
6B	2	Casearia sylvestris	native	1	0.79	0.0020
6B	2	Castilla elastica	exotic	1	0.79	0.0020
6B	2	Castilla elastica	exotic	1	0.79	0.0020
6B	2	Castilla elastica	exotic	1	0.79	0.0020
6B	2	Castilla elastica	exotic	2	3.14	0.0079
6B	2	Castilla elastica	exotic	4	12.57	0.0314
6B	2	Castilla elastica	exotic	5	19.63	0.0491
6B	2	Castilla elastica	exotic	5	19.63	0.0491
6B	2	Castilla elastica	exotic	6	28.27	0.0707
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	1	0.79	0.0020
6B	2	Guarea guidonia	native	2	3.14	0.0079
6B	2	Guarea guidonia	native	2	3.14	0.0079
6B	2	Guarea guidonia	native	2	3.14	0.0079
6B	2	Hibiscus elatus	exotic	1	0.79	0.0020
6B	2	Hibiscus elatus	exotic	1	0.79	0.0020
6B	2	Hibiscus elatus	exotic	1	0.79	0.0020
6B	2	Hibiscus elatus	exotic	1	0.79	0.0020
6B	2	Hibiscus elatus	exotic	2	3.14	0.0079
6B	2	Hibiscus elatus	exotic	3	7.07	0.0177
6B	2	Hibiscus elatus	exotic	3	7.07	0.0177
6B	2	Hibiscus elatus	exotic	4	12.57	0.0314
6B	2	Hibiscus elatus	exotic	5	19.63	0.0491
6B	2	Hibiscus elatus	exotic	5	19.63	0.0491
6B	2	Hibiscus elatus	exotic	6	28.27	0.0707
6B	2	Hibiscus elatus	exotic	6	28.27	0.0707
6B	2	Hibiscus elatus	exotic	7	38.48	0.0962
6B	2	Hibiscus elatus	exotic	8	50.27	0.1257
6B	2	Hibiscus elatus	exotic	12	113.10	0.2827
6B	2	Hibiscus elatus	exotic	12	113.10	0.2827
6B	2	Hibiscus elatus	exotic	18	254.47	0.6362
6B	2	Hibiscus elatus	exotic	25	490.87	1.2272
6B	2	Hibiscus elatus	exotic	44	1520.53	3.8013

6B	2	Hibiscus elatus	exotic	51	2042.82	5.1071
6B	2	Hibiscus elatus	exotic	57	2551.76	6.3794
6B	2	Hibiscus elatus	exotic	64	3216.99	8.0425
6B	2	Inga vera	native	7	38.48	0.0962
6B	2	Inga vera	native	9	63.62	0.1590
6B	2	Miconia impetiolaris	native	2	3.14	0.0079
6B	2	Ocotea leucoxylon	native	1	0.79	0.0020
6B	2	Ocotea leucoxylon	native	1	0.79	0.0020
6B	2	Syzygium jambos	exotic	1	0.79	0.0020
6B	2	Syzygium jambos	exotic	1	0.79	0.0020
6B	2	Syzygium jambos	exotic	1	0.79	0.0020
6B	2	Syzygium jambos	exotic	1	0.79	0.0020
6B	2	Syzygium jambos	exotic	1	0.79	0.0020
6B	2	Syzygium jambos	exotic	1	0.79	0.0020
6B	2	Syzygium jambos	exotic	1	0.79	0.0020
6B	2	Syzygium jambos	exotic	1	0.79	0.0020
6B	2	Syzygium jambos	exotic	1	0.79	0.0020
6B	2	Syzygium jambos	exotic	2	3.14	0.0079
6B	2	Zanthoxylum martinicense	native	2	3.14	0.0079
6B	3	Andira inermis	native	1	0.79	0.0020
6B	3	Andira inermis	native	2	3.14	0.0079
6B	3	Andira inermis	native	3	7.07	0.0177
6B	3	Castilla elastica	exotic	1	0.79	0.0020
6B	3	Castilla elastica	exotic	1	0.79	0.0020
6B	3	Castilla elastica	exotic	2	3.14	0.0079
6B	3	Castilla elastica	exotic	2	3.14	0.0079
6B	3	Castilla elastica	exotic	3	7.07	0.0177
6B	3	Castilla elastica	exotic	7	38.48	0.0962
6B	3	Dendropanax arboreus	native	1	0.79	0.0020
6B	3	Dendropanax arboreus	native	2	3.14	0.0079
6B	3	Dendropanax arboreus	native	2	3.14	0.0079
6B	3	Guarea guidonia	native	1	0.79	0.0020
6B	3	Guarea guidonia	native	1	0.79	0.0020
6B	3	Guarea guidonia	native	1	0.79	0.0020
6B	3	Guarea guidonia	native	1	0.79	0.0020
6B	3	Guarea guidonia	native	1	0.79	0.0020
6B	3	Guarea guidonia	native	1	0.79	0.0020
6B	3	Guarea guidonia	native	1	0.79	0.0020
6B	3	Guarea guidonia	native	1	0.79	0.0020
6B	3	Guarea guidonia	native	2	3.14	0.0079
6B	3	Guarea guidonia	native	2	3.14	0.0079
6B	3	Guarea guidonia	native	2	3.14	0.0079
6B	3	Guarea guidonia	native	2	3.14	0.0079
6B	3	Guarea guidonia	native	2	3.14	0.0079
6B	3	Guarea guidonia	native	3	7.07	0.0177
6B	3	Hibiscus elatus	exotic	1	0.79	0.0020

6B	3	Hibiscus elatus	exotic	1	0.79	0.0020
6B	3	Hibiscus elatus	exotic	2	3.14	0.0079
6B	3	Hibiscus elatus	exotic	2	3.14	0.0079
6B	3	Hibiscus elatus	exotic	2	3.14	0.0079
6B	3	Hibiscus elatus	exotic	3	7.07	0.0177
6B	3	Hibiscus elatus	exotic	3	7.07	0.0177
6B	3	Hibiscus elatus	exotic	3	7.07	0.0177
6B	3	Hibiscus elatus	exotic	12	113.10	0.2827
6B	3	Hibiscus elatus	exotic	28	615.75	1.5394
6B	3	Hibiscus elatus	exotic	35	962.11	2.4053
6B	3	Hibiscus elatus	exotic	35	962.11	2.4053
6B	3	Hibiscus elatus	exotic	43	1452.20	3.6305
6B	3	Miconia prasina	native	1	0.79	0.0020
6B	3	Ocotea leucoxylon	native	1	0.79	0.0020
6B	3	Ocotea leucoxylon	native	1	0.79	0.0020
6B	3	Ocotea leucoxylon	native	3	7.07	0.0177
6B	3	Quararibaea turbinata	native	1	0.79	0.0020
6B	3	Quararibaea turbinata	native	2	3.14	0.0079
6B	3	Quararibaea turbinata	native	3	7.07	0.0177
6B	3	Quararibaea turbinata	native	3	7.07	0.0177
6B	3	Quararibaea turbinata	native	3	7.07	0.0177
6B	3	Quararibaea turbinata	native	5	19.63	0.0491
6B	3	Syzygium jambos	exotic	2	3.14	0.0079
6B	3	Syzygium jambos	exotic	2	3.14	0.0079
6B	3	Syzygium jambos	exotic	3	7.07	0.0177
6B	3	Syzygium jambos	exotic	3	7.07	0.0177
6B	4	Andira inermis	native	1	0.79	0.0020
6B	4	Andira inermis	native	2	3.14	0.0079
6B	4	Bucida buceris	native	1	0.79	0.0020
6B	4	Casearia guianensis	native	1	0.79	0.0020
6B	4	Casearia sylvestris	native	2	3.14	0.0079
6B	4	Casearia sylvestris	native	3	7.07	0.0177
6B	4	Casearia sylvestris	native	3	7.07	0.0177
6B	4	Castilla elastica	exotic	1	0.79	0.0020
6B	4	Castilla elastica	exotic	2	3.14	0.0079
6B	4	Castilla elastica	exotic	2	3.14	0.0079
6B	4	Castilla elastica	exotic	2	3.14	0.0079
6B	4	Castilla elastica	exotic	2	3.14	0.0079
6B	4	Castilla elastica	exotic	3	7.07	0.0177
6B	4	Castilla elastica	exotic	3	7.07	0.0177
6B	4	Dendropanax arboreus	native	1	0.79	0.0020
6B	4	Guarea guidonia	native	1	0.79	0.0020
6B	4	Guarea guidonia	native	1	0.79	0.0020
6B	4	Guarea guidonia	native	1	0.79	0.0020



6B	4	Hibiscus elatus	exotic	1	0.79	0.0020
6B	4	Hibiscus elatus	exotic	1	0.79	0.0020
6B	4	Hibiscus elatus	exotic	2	3.14	0.0079
6B	4	Hibiscus elatus	exotic	2	3.14	0.0079
6B	4	Hibiscus elatus	exotic	2	3.14	0.0079
6B	4	Hibiscus elatus	exotic	3	7.07	0.0177
6B	4	Hibiscus elatus	exotic	3	7.07	0.0177
6B	4	Hibiscus elatus	exotic	3	7.07	0.0177
6B	4	Hibiscus elatus	exotic	3	7.07	0.0177
6B	4	Hibiscus elatus	exotic	3	7.07	0.0177
6B	4	Hibiscus elatus	exotic	4	12.57	0.0314
6B	4	Hibiscus elatus	exotic	4	12.57	0.0314
6B	4	Hibiscus elatus	exotic	4	12.57	0.0314
6B	4	Hibiscus elatus	exotic	5	19.63	0.0491
6B	4	Hibiscus elatus	exotic	7	38.48	0.0962
6B	4	Hibiscus elatus	exotic	7	38.48	0.0962
6B	4	Hibiscus elatus	exotic	10	78.54	0.1963
6B	4	Hibiscus elatus	exotic	10	78.54	0.1963
6B	4	Hibiscus elatus	exotic	12	113.10	0.2827
6B	4	Hibiscus elatus	exotic	13	132.73	0.3318
6B	4	Hibiscus elatus	exotic	15	176.71	0.4418
6B	4	Hibiscus elatus	exotic	18	254.47	0.6362
6B	4	Hibiscus elatus	exotic	46	1661.90	4.1548
6B	4	Hibiscus elatus	exotic	54	2290.22	5.7256
6B	4	Hibiscus elatus	exotic	66	3421.19	8.5530
6B	4	Syzygium jambos	exotic	2	3.14	0.0079

#### 8.11 BASAL AREA DECEMBER 2004

Basal area in m<sup>2</sup> per hectare was calculated from the estimated DBH (diameter at breast height, 1.4 m) of all trees > 2 m tall within 400 m<sup>2</sup> plots (m<sup>2</sup>/ha = ((area of individual tree (cm<sup>2</sup>) / 10,000) \* 25)). Plots 1A, 2B, 3A, 4A, 5A, and 6B are control plots; 1B, 2A, 3B, 4B, 5B, and 6A are gap plots in which all exotic trees >5cm DBH were girdled and treated with herbicide to kill them.

Plot	Family	Species	native/ exotic	DBH (cm)	Basal Area (cm <sup>2</sup> )	m <sup>2</sup> /ha
1A	Anacardiaceae	Comocladia glabra	native	2	3.14	0.0079
1A	Anacardiaceae	Comocladia glabra	native	2	3.14	0.0079
1A	Anacardiaceae	Comocladia glabra	native	1	0.79	0.0020
1A	Araliaceae	Dendropanax arboreum	native	15	176.71	0.4418
1A	Araliaceae	Dendropanax arboreum	native	13	132.73	0.3318
1A	Araliaceae	Dendropanax arboreum	native	13	132.73	0.3318
1A	Araliaceae	Dendropanax arboreum	native	9	63.62	0.1590
1A	Araliaceae	Dendropanax arboreum	native	8	50.27	0.1257

1A	Araliaceae	Dendropanax arboreum	native	8	50.27	0.1257
1A	Araliaceae	Dendropanax arboreum	native	7	38.48	0.0962
1A	Araliaceae	Dendropanax arboreum	native	6	28.27	0.0707
1A	Araliaceae	Dendropanax arboreum	native	5	19.63	0.0491
1A	Araliaceae	Dendropanax arboreum	native	5	19.63	0.0491
1A	Araliaceae	Dendropanax arboreum	native	5	19.63	0.0491
1A	Araliaceae	Dendropanax arboreum	native	4	12.57	0.0314
1A	Araliaceae	Dendropanax arboreum	native	4	12.57	0.0314
1A	Araliaceae	Dendropanax arboreum	native	4	12.57	0.0314
1A	Araliaceae	Dendropanax arboreum	native	4	12.57	0.0314
1A	Araliaceae	Dendropanax arboreum	native	3	7.07	0.0177
1A	Araliaceae	Dendropanax arboreum	native	3	7.07	0.0177
1A	Araliaceae	Dendropanax arboreum	native	3	7.07	0.0177
1A	Araliaceae	Dendropanax arboreum	native	3	7.07	0.0177
1A	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1A	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1A	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1A	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1A	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1A	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1A	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1A	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1A	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1A	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1A	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
1A	Areceae	Prestoea montana	native	12	113.10	0.2827
1A	Bignoniaceae	Tabebuia heterophylla	native	2	3.14	0.0079
1A	Clusiaceae	Calophyllum calaba	native	11	95.03	0.2376
1A	Clusiaceae	Calophyllum calaba	native	5	19.63	0.0491
1A	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314
1A	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314
1A	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314
1A	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314
1A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
1A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
1A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
1A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
1A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
1A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
1A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
1A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
1A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
1A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
1A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
1A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
1A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
1A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
1A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
1A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
1A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020

1A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
1A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
1A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
1A	Fabaceae	Inga vera	native	9	63.62	0.1590
1A	Fabaceae	Inga vera	native	2	3.14	0.0079
1A	Fabaceae	Inga fagifolia	native	7	38.48	0.0962
1A	Fabaceae	Andira inermis	native	20	314.16	0.7854
1A	Fabaceae	Andira inermis	native	12	113.10	0.2827
1A	Fabaceae	Andira inermis	native	12	113.10	0.2827
1A	Fabaceae	Andira inermis	native	11	95.03	0.2376
1A	Fabaceae	Andira inermis	native	11	95.03	0.2376
1A	Fabaceae	Andira inermis	native	10	78.54	0.1963
1A	Fabaceae	Andira inermis	native	2	3.14	0.0079
1A	Fabaceae	Andira inermis	native	2	3.14	0.0079
1A	Fabaceae	Andira inermis	native	2	3.14	0.0079
1A	Fabaceae	Andira inermis	native	1	0.79	0.0020
1A	Fabaceae	Andira inermis	native	1	0.79	0.0020
1A	Fabaceae	Andira inermis	native	1	0.79	0.0020
1A	Flacourtiaceae	Casearia sylvestris	native	2	3.14	0.0079
1A	Flacourtiaceae	Casearia sylvestris	native	2	3.14	0.0079
1A	Flacourtiaceae	Casearia sylvestris	native	2	3.14	0.0079
1A	Flacourtiaceae	Casearia sylvestris	native	1	0.79	0.0020
1A	Flacourtiaceae	Casearia sylvestris	native	1	0.79	0.0020
1A	Malvaceae	Hibiscus elatus	exotic	50	1963.50	4.9087
1A	Malvaceae	Hibiscus elatus	exotic	47	1734.94	4.3374
1A	Malvaceae	Hibiscus elatus	exotic	38	1134.11	2.8353
1A	Malvaceae	Hibiscus elatus	exotic	34	907.92	2.2698
1A	Malvaceae	Hibiscus elatus	exotic	34	907.92	2.2698
1A	Malvaceae	Hibiscus elatus	exotic	34	907.92	2.2698
1A	Malvaceae	Hibiscus elatus	exotic	33	855.30	2.1382
1A	Malvaceae	Hibiscus elatus	exotic	33	855.30	2.1382
1A	Malvaceae	Hibiscus elatus	exotic	32	804.25	2.0106
1A	Malvaceae	Hibiscus elatus	exotic	31	754.77	1.8869
1A	Malvaceae	Hibiscus elatus	exotic	27	572.56	1.4314
1A	Malvaceae	Hibiscus elatus	exotic	27	572.56	1.4314
1A	Malvaceae	Hibiscus elatus	exotic	27	572.56	1.4314
1A	Malvaceae	Hibiscus elatus	exotic	25	490.87	1.2272
1A	Malvaceae	Hibiscus elatus	exotic	24	452.39	1.1310
1A	Malvaceae	Hibiscus elatus	exotic	24	452.39	1.1310
1A	Malvaceae	Hibiscus elatus	exotic	22	380.13	0.9503
1A	Malvaceae	Hibiscus elatus	exotic	17	226.98	0.5675
1A	Malvaceae	Hibiscus elatus	exotic	17	226.98	0.5675
1A	Malvaceae	Hibiscus elatus	exotic	16	201.06	0.5027
1A	Malvaceae	Hibiscus elatus	exotic	13	132.73	0.3318







1A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1A	Moraceae	Ficus citrifolia	native	5	19.63	0.0491
1A	Myrtaceae	Syzygium malaccense	exotic	2	3.14	0.0079
1A	Myrtaceae	Syzygium malaccense	exotic	1	0.79	0.0020
1A	Myrtaceae	Syzygium jambos	exotic	8	50.27	0.1257
1A	Myrtaceae	Syzygium jambos	exotic	6	28.27	0.0707
1A	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
1A	Myrtaceae	Eugenia biflora	native	2	3.14	0.0079
1A	Oleaceae	Lonicera dominguensis	native	3	7.07	0.0177
1A	Oleaceae	Lonicera dominguensis	native	2	3.14	0.0079
1A	Sapindaceae	Thouinia striata	native	15	176.71	0.4418
1A	Sapindaceae	Thouinia striata	native	4	12.57	0.0314
1A	Sapindaceae	Thouinia striata	native	4	12.57	0.0314
1A	Sapindaceae	Thouinia striata	native	2	3.14	0.0079
1A	Sapindaceae	Thouinia striata	native	2	3.14	0.0079
1A	Sapindaceae	Thouinia striata	native	2	3.14	0.0079
1A	Sapindaceae	Thouinia striata	native	2	3.14	0.0079
1A	Sapindaceae	Thouinia striata	native	2	3.14	0.0079
1A	Sapindaceae	Thouinia striata	native	2	3.14	0.0079
1A	Sapindaceae	Thouinia striata	native	1	0.79	0.0020
1A	Sapindaceae	Allophylla crassinervis	native	2	3.14	0.0079
1B	Anacardiaceae	Comocladia glabra	native	1	0.79	0.0020
1B	Araliaceae	Dendropanax arboreum	native	11	95.03	0.2376
1B	Araliaceae	Dendropanax arboreum	native	8	50.27	0.1257
1B	Araliaceae	Dendropanax arboreum	native	5	19.63	0.0491
1B	Araliaceae	Dendropanax arboreum	native	4	12.57	0.0314
1B	Araliaceae	Dendropanax arboreum	native	4	12.57	0.0314
1B	Araliaceae	Dendropanax arboreum	native	3	7.07	0.0177
1B	Araliaceae	Dendropanax arboreum	native	3	7.07	0.0177
1B	Araliaceae	Dendropanax arboreum	native	3	7.07	0.0177
1B	Araliaceae	Dendropanax arboreum	native	3	7.07	0.0177
1B	Araliaceae	Dendropanax arboreum	native	3	7.07	0.0177
1B	Araliaceae	Dendropanax arboreum	native	3	7.07	0.0177
1B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
1B	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
1B	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
1B	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
1B	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
1B	Areceae	Roystonea borinquena	native	16	201.06	0.5027
1B	Bignoniaceae	Tabebuia heterophylla	native	2	3.14	0.0079
1B	Bignoniaceae	Tabebuia heterophylla	native	2	3.14	0.0079





1B	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
1B	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
1B	Fabaceae	Inga vera	native	16	201.06	0.5027
1B	Fabaceae	Inga vera	native	7	38.48	0.0962
1B	Fabaceae	Inga vera	native	5	19.63	0.0491
1B	Fabaceae	Inga vera	native	5	19.63	0.0491
1B	Fabaceae	Inga vera	native	4	12.57	0.0314
1B	Fabaceae	Inga vera	native	2	3.14	0.0079
1B	Fabaceae	Erythrina poeppigiana	exotic	6	28.27	0.0707
1B	Fabaceae	Erythrina poeppigiana	exotic	5	19.63	0.0491
1B	Fabaceae	Erythrina poeppigiana	exotic	3	7.07	0.0177
1B	Fabaceae	Erythrina poeppigiana	exotic	2	3.14	0.0079
1B	Fabaceae	Erythrina poeppigiana	exotic	2	3.14	0.0079
1B	Fabaceae	Erythrina poeppigiana	exotic	1	0.79	0.0020
1B	Fabaceae	Erythrina poeppigiana	exotic	1	0.79	0.0020
1B	Fabaceae	Andira inermis	native	3	7.07	0.0177
1B	Fabaceae	Andira inermis	native	3	7.07	0.0177
1B	Fabaceae	Andira inermis	native	2	3.14	0.0079
1B	Fabaceae	Andira inermis	native	2	3.14	0.0079
1B	Fabaceae	Andira inermis	native	2	3.14	0.0079
1B	Fabaceae	Andira inermis	native	2	3.14	0.0079
1B	Fabaceae	Andira inermis	native	1	0.79	0.0020
1B	Fabaceae	Andira inermis	native	1	0.79	0.0020
1B	Fabaceae	Andira inermis	native	1	0.79	0.0020
1B	Fabaceae	Andira inermis	native	1	0.79	0.0020
1B	Fabaceae	Andira inermis	native	1	0.79	0.0020
1B	Fabaceae	Andira inermis	native	1	0.79	0.0020
1B	Fabaceae	Andira inermis	native	1	0.79	0.0020
1B	Fabaceae	Andira inermis	native	1	0.79	0.0020
1B	Flacourtiaceae	Casearia sylvestris	native	4	12.57	0.0314
1B	Flacourtiaceae	Casearia sylvestris	native	4	12.57	0.0314
1B	Flacourtiaceae	Casearia sylvestris	native	4	12.57	0.0314
1B	Flacourtiaceae	Casearia sylvestris	native	3	7.07	0.0177
1B	Flacourtiaceae	Casearia sylvestris	native	1	0.79	0.0020
1B	Lauraceae	Persia americana	exotic	4	12.57	0.0314
1B	Lauraceae	Ocotea patens	native	1	0.79	0.0020
1B	Malvaceae	Hibiscus elatus	exotic	8	50.27	0.1257
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
1B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491



1B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
1B	Melastomataceae	Miconia laevigata	native	1	0.79	0.0020
1B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
1B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
1B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
1B	Myrsinaceae	Ardisia obovata	native	1	0.79	0.0020
1B	Myrtaceae	Syzygium jambos	exotic	9	63.62	0.1590
1B	Myrtaceae	Syzygium jambos	exotic	9	63.62	0.1590
1B	Myrtaceae	Syzygium jambos	exotic	7	38.48	0.0962
1B	Myrtaceae	Syzygium jambos	exotic	6	28.27	0.0707
1B	Myrtaceae	Syzygium jambos	exotic	5	19.63	0.0491
1B	Myrtaceae	Syzygium jambos	exotic	5	19.63	0.0491
1B	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
1B	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
1B	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
1B	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
1B	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
1B	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
1B	Myrtaceae	Syzygium jambos	exotic	3	7.07	0.0177
1B	Myrtaceae	Syzygium jambos	exotic	3	7.07	0.0177
1B	Myrtaceae	Syzygium jambos	exotic	3	7.07	0.0177
1B	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
1B	Myrtaceae	Eugenia biflora	native	3	7.07	0.0177
1B	Nyctaginaceae	Guapira obtusata	native	1	0.79	0.0020
1B	Oleaceae	Chionanthus domingensis	native	17	226.98	0.5675
1B	Oleaceae	Chionanthus domingensis	native	2	3.14	0.0079
1B	Polygonaceae	Coccoloba peltata	native	2	3.14	0.0079
1B	Rubiaceae	Gonzalgunia spicata	native	1	0.79	0.0020
1B	Rubiaceae	Gonzalgunia spicata	native	1	0.79	0.0020
1B	Sapotaceae	Sideroxylon portoricensis	native	1	0.79	0.0020
1B	Solanaceae	Cestrum macrophyllum	native	5	19.63	0.0491
1B	Solanaceae	Cestrum macrophyllum	native	2	3.14	0.0079
1B	Solanaceae	Cestrum macrophyllum	native	1	0.79	0.0020
2A	Bignoniaceae	Tabebuia heterophylla	native	4	12.57	0.0314
2A	Bignoniaceae	Tabebuia heterophylla	native	4	12.57	0.0314
2A	Bignoniaceae	Spathodea campanulata	exotic	4	12.57	0.0314
2A	Bignoniaceae	Spathodea campanulata	exotic	3	7.07	0.0177
2A	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314

2A	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314
2A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
2A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
2A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
2A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
2A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
2A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
2A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
2A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
2A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
2A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
2A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
2A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
2A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
2A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
2A	Fabaceae	Senna siamea	exotic	31	754.77	1.8869
2A	Fabaceae	Senna siamea	exotic	27	572.56	1.4314
2A	Fabaceae	Andira inermis	native	2	3.14	0.0079
2A	Lauraceae	Ocotea patens	native	2	3.14	0.0079
2A	Lauraceae	Cinmomom montanum	native	10	78.54	0.1963
2A	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
2A	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
2A	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
2A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
2A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
2A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
2A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
2A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177

2A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
2A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
2A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
2A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
2A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
2A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
2A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
2A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
2A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
2A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
2A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
2A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
2A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
2A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
2A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
2A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
2A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
2A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
2A	Melastomataceae	Miconia impetolaris	native	1	0.79	0.0020
2A	Meliaceae	Guarea guidonia	native	17	226.98	0.5675
2A	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
2A	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
2A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
2A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
2A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
2A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
2A	Moraceae	Pseudolmedia spuria	native	3	7.07	0.0177
2A	Myrsinaceae	Parathesis crenulata	native	4	12.57	0.0314
2A	Myrsinaceae	Parathesis crenulata	native	3	7.07	0.0177
2A	Myrsinaceae	Parathesis crenulata	native	3	7.07	0.0177
2A	Myrsinaceae	Parathesis crenulata	native	3	7.07	0.0177
2A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2A	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
2A	Myrtaceae	Syzygium jambos	exotic	7	38.48	0.0962
2A	Myrtaceae	Syzygium jambos	exotic	6	28.27	0.0707
2A	Myrtaceae	Syzygium jambos	exotic	6	28.27	0.0707
2A	Myrtaceae	Syzygium jambos	exotic	6	28.27	0.0707

2A	Myrtaceae	Syzygium jambos	exotic	5	19.63	0.0491
2A	Myrtaceae	Syzygium jambos	exotic	5	19.63	0.0491
2A	Myrtaceae	Syzygium jambos	exotic	5	19.63	0.0491
2A	Myrtaceae	Syzygium jambos	exotic	5	19.63	0.0491
2A	Myrtaceae	Syzygium jambos	exotic	5	19.63	0.0491
2A	Myrtaceae	Syzygium jambos	exotic	5	19.63	0.0491
2A	Myrtaceae	Syzygium jambos	exotic	5	19.63	0.0491
2A	Myrtaceae	Syzygium jambos	exotic	5	19.63	0.0491
2A	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
2A	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
2A	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
2A	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
2A	Myrtaceae	Syzygium jambos	exotic	3	7.07	0.0177
2A	Myrtaceae	Syzygium jambos	exotic	3	7.07	0.0177
2A	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
2A	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
2A	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
2A	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
2A	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
2A	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
2A	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
2A	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
2A	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
2A	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
2A	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
2A	Myrtaceae	Eugenia monticola	native	2	3.14	0.0079
2A	Myrtaceae	Eugenia monticola	native	2	3.14	0.0079
2A	Myrtaceae	Eugenia monticola	native	2	3.14	0.0079
2A	Myrtaceae	Eugenia monticola	native	1	0.79	0.0020
2A	Myrtaceae	Eugenia biflora	native	3	7.07	0.0177
2A	Myrtaceae	Eugenia biflora	native	2	3.14	0.0079
2A	Myrtaceae	Eugenia biflora	native	1	0.79	0.0020
2A	Polygonaceae	Coccoloba swartzii	native	6	28.27	0.0707
2A	Rubiaceae	Faramea occidentalis	native	4	12.57	0.0314
2A	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177
2A	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177
2A	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177
2A	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177
2A	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177
2A	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177
2A	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177
2A	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177
2A	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177
2A	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177
2A	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177
2A	Rubiaceae	Faramea occidentalis	native	2	3.14	0.0079

2A	Rubiaceae	<i>Faramea occidentalis</i>	native	2	3.14	0.0079
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	2	3.14	0.0079
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	2	3.14	0.0079
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	2	3.14	0.0079
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	2	3.14	0.0079
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	2	3.14	0.0079
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	2	3.14	0.0079
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	2	3.14	0.0079
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	2	3.14	0.0079
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	2	3.14	0.0079
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	1	0.79	0.0020
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	1	0.79	0.0020
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	1	0.79	0.0020
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	1	0.79	0.0020
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	1	0.79	0.0020
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	1	0.79	0.0020
2A	Rubiaceae	<i>Faramea occidentalis</i>	native	1	0.79	0.0020
2A	Rutaceae	<i>Zanthoxylon martinicense</i>	native	2	3.14	0.0079
2A	Sapindaceae	<i>Thouinia striata</i>	native	3	7.07	0.0177
2A	Sapindaceae	<i>Thouinia striata</i>	native	3	7.07	0.0177
2A	Sapindaceae	<i>Thouinia striata</i>	native	2	3.14	0.0079
2A	Sapotaceae	<i>Sideroxylon portoricensis</i>	native	1	0.79	0.0020
2A	Simaroubaceae	<i>Picramnia pentandra</i>	native	2	3.14	0.0079
2B	Anacardiaceae	<i>Comocladia glabra</i>	native	1	0.79	0.0020
2B	Anacardiaceae	<i>Comocladia glabra</i>	native	1	0.79	0.0020
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	7	38.48	0.0962
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	6	28.27	0.0707
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	6	28.27	0.0707
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	6	28.27	0.0707
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	6	28.27	0.0707
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	5	19.63	0.0491
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	4	12.57	0.0314
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	3	7.07	0.0177
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	3	7.07	0.0177
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	3	7.07	0.0177
2B	Araliaceae	<i>Dendropanax arboreum</i>	native	2	3.14	0.0079

2B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
2B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
2B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
2B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
2B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
2B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
2B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
2B	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
2B	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
2B	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
2B	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
2B	Areceae	Roystonea borinquena	native	14	153.94	0.3848
2B	Areceae	Roystonea borinquena	native	9	63.62	0.1590
2B	Clusiaceae	Calophyllum calaba	native	6	28.27	0.0707
2B	Clusiaceae	Calophyllum calaba	native	5	19.63	0.0491
2B	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314
2B	Fabaceae	Pithecellobium arboreum	native	4	12.57	0.0314
2B	Fabaceae	Andira inermis	native	3	7.07	0.0177
2B	Flacourtiaceae	Casearia sylvestris	native	3	7.07	0.0177
2B	Flacourtiaceae	Casearia sylvestris	native	1	0.79	0.0020
2B	Flacourtiaceae	Casearia sylvestris	native	1	0.79	0.0020
2B	Flacourtiaceae	Casearia decandra	native	1	0.79	0.0020
2B	Lauraceae	Ocotea leucoxydon	native	6	28.27	0.0707
2B	Lauraceae	Ocotea leucoxydon	native	4	12.57	0.0314
2B	Lauraceae	Ocotea leucoxydon	native	4	12.57	0.0314
2B	Lauraceae	Ocotea leucoxydon	native	3	7.07	0.0177
2B	Lauraceae	Ocotea leucoxydon	native	3	7.07	0.0177
2B	Lauraceae	Ocotea leucoxydon	native	2	3.14	0.0079
2B	Lauraceae	Ocotea leucoxydon	native	2	3.14	0.0079
2B	Lauraceae	Ocotea leucoxydon	native	2	3.14	0.0079
2B	Lauraceae	Ocotea leucoxydon	native	2	3.14	0.0079
2B	Lauraceae	Ocotea leucoxydon	native	1	0.79	0.0020
2B	Lauraceae	Ocotea leucoxydon	native	1	0.79	0.0020
2B	Lauraceae	Ocotea leucoxydon	native	1	0.79	0.0020
2B	Lauraceae	Ocotea leucoxydon	native	1	0.79	0.0020
2B	Lauraceae	Ocotea leucoxydon	native	1	0.79	0.0020
2B	Lauraceae	Cinmomum montanum	native	4	12.57	0.0314
2B	Lauraceae	Cinmomum montanum	native	1	0.79	0.0020
2B	Malvaceae	Hibiscus elatus	exotic	52	2123.72	5.3093
2B	Malvaceae	Hibiscus elatus	exotic	45	1590.43	3.9761
2B	Malvaceae	Hibiscus elatus	exotic	40	1256.64	3.1416
2B	Malvaceae	Hibiscus elatus	exotic	26	530.93	1.3273
2B	Malvaceae	Hibiscus elatus	exotic	23	415.48	1.0387



2B	Malvaceae	Hibiscus elatus	exotic	22	380.13	0.9503
2B	Malvaceae	Hibiscus elatus	exotic	20	314.16	0.7854
2B	Malvaceae	Hibiscus elatus	exotic	18	254.47	0.6362
2B	Malvaceae	Hibiscus elatus	exotic	18	254.47	0.6362
2B	Malvaceae	Hibiscus elatus	exotic	16	201.06	0.5027
2B	Malvaceae	Hibiscus elatus	exotic	16	201.06	0.5027
2B	Malvaceae	Hibiscus elatus	exotic	16	201.06	0.5027
2B	Malvaceae	Hibiscus elatus	exotic	15	176.71	0.4418
2B	Malvaceae	Hibiscus elatus	exotic	15	176.71	0.4418
2B	Malvaceae	Hibiscus elatus	exotic	13	132.73	0.3318
2B	Malvaceae	Hibiscus elatus	exotic	13	132.73	0.3318
2B	Malvaceae	Hibiscus elatus	exotic	12	113.10	0.2827
2B	Malvaceae	Hibiscus elatus	exotic	12	113.10	0.2827
2B	Malvaceae	Hibiscus elatus	exotic	11	95.03	0.2376
2B	Malvaceae	Hibiscus elatus	exotic	11	95.03	0.2376
2B	Malvaceae	Hibiscus elatus	exotic	11	95.03	0.2376
2B	Malvaceae	Hibiscus elatus	exotic	11	95.03	0.2376
2B	Malvaceae	Hibiscus elatus	exotic	10	78.54	0.1963
2B	Malvaceae	Hibiscus elatus	exotic	10	78.54	0.1963
2B	Malvaceae	Hibiscus elatus	exotic	10	78.54	0.1963
2B	Malvaceae	Hibiscus elatus	exotic	10	78.54	0.1963
2B	Malvaceae	Hibiscus elatus	exotic	10	78.54	0.1963
2B	Malvaceae	Hibiscus elatus	exotic	9	63.62	0.1590
2B	Malvaceae	Hibiscus elatus	exotic	9	63.62	0.1590
2B	Malvaceae	Hibiscus elatus	exotic	8	50.27	0.1257
2B	Malvaceae	Hibiscus elatus	exotic	8	50.27	0.1257
2B	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
2B	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
2B	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
2B	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
2B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
2B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
2B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
2B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
2B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
2B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
2B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
2B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314



2B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
2B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
2B	Melastomataceae	Miconia impetiolepis	native	1	0.79	0.0020
2B	Meliaceae	Trichilia pallida	native	4	12.57	0.0314
2B	Meliaceae	Guarea guidonia	native	39	1194.59	2.9865
2B	Meliaceae	Guarea guidonia	native	38	1134.11	2.8353
2B	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
2B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	7	38.48	0.0962
2B	Moraceae	Pseudolmedia spuria	native	6	28.27	0.0707
2B	Moraceae	Pseudolmedia spuria	native	4	12.57	0.0314
2B	Moraceae	Pseudolmedia spuria	native	3	7.07	0.0177
2B	Moraceae	Pseudolmedia spuria	native	3	7.07	0.0177
2B	Moraceae	Pseudolmedia spuria	native	3	7.07	0.0177
2B	Moraceae	Pseudolmedia spuria	native	3	7.07	0.0177
2B	Moraceae	Pseudolmedia spuria	native	3	7.07	0.0177
2B	Moraceae	Pseudolmedia spuria	native	3	7.07	0.0177
2B	Moraceae	Pseudolmedia spuria	native	3	7.07	0.0177
2B	Moraceae	Pseudolmedia spuria	native	3	7.07	0.0177
2B	Moraceae	Pseudolmedia spuria	native	3	7.07	0.0177
2B	Moraceae	Pseudolmedia spuria	native	2	3.14	0.0079
2B	Moraceae	Pseudolmedia spuria	native	2	3.14	0.0079
2B	Moraceae	Pseudolmedia spuria	native	2	3.14	0.0079
2B	Moraceae	Pseudolmedia spuria	native	2	3.14	0.0079
2B	Moraceae	Pseudolmedia spuria	native	2	3.14	0.0079
2B	Moraceae	Pseudolmedia spuria	native	2	3.14	0.0079
2B	Moraceae	Pseudolmedia spuria	native	2	3.14	0.0079
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Pseudolmedia spuria	native	1	0.79	0.0020
2B	Moraceae	Ficus citrifolia	native	4	12.57	0.0314
2B	Myrsinaceae	Parathesis crenulata	native	4	12.57	0.0314
2B	Myrsinaceae	Parathesis crenulata	native	3	7.07	0.0177
2B	Myrsinaceae	Parathesis crenulata	native	3	7.07	0.0177
2B	Myrsinaceae	Parathesis crenulata	native	3	7.07	0.0177
2B	Myrsinaceae	Parathesis crenulata	native	3	7.07	0.0177
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079

2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
2B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
2B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
2B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
2B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
2B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
2B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
2B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
2B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
2B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
2B	Myrsinaceae	Ardisia obovata	native	3	7.07	0.0177
2B	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
2B	Myrtaceae	Eugenia monticola	native	2	3.14	0.0079
2B	Myrtaceae	Eugenia monticola	native	1	0.79	0.0020
2B	Myrtaceae	Eugenia monticola	native	1	0.79	0.0020
2B	Myrtaceae	Eugenia monticola	native	1	0.79	0.0020
2B	Myrtaceae	Eugenia biflora	native	8	50.27	0.1257
2B	Myrtaceae	Eugenia biflora	native	4	12.57	0.0314
2B	Myrtaceae	Eugenia biflora	native	3	7.07	0.0177
2B	Myrtaceae	Eugenia biflora	native	3	7.07	0.0177
2B	Myrtaceae	Eugenia biflora	native	2	3.14	0.0079
2B	Myrtaceae	Eugenia biflora	native	2	3.14	0.0079
2B	Myrtaceae	Eugenia biflora	native	2	3.14	0.0079
2B	Myrtaceae	Eugenia biflora	native	2	3.14	0.0079
2B	Myrtaceae	Eugenia biflora	native	1	0.79	0.0020
2B	Myrtaceae	Eugenia biflora	native	1	0.79	0.0020
2B	Myrtaceae	Eugenia biflora	native	1	0.79	0.0020
2B	Polygonaceae	Coccoloba swartzii	native	5	19.63	0.0491
2B	Polygonaceae	Coccoloba swartzii	native	5	19.63	0.0491
2B	Polygonaceae	Coccoloba swartzii	native	2	3.14	0.0079
2B	Polygonaceae	Coccoloba pyrifolia	native	2	3.14	0.0079
2B	Polygonaceae	Coccoloba pyrifolia	native	1	0.79	0.0020
2B	Rosaceae	Prunus myrtifolia	native	3	7.07	0.0177
2B	Rubiaceae	Psychotria pubescens	native	2	3.14	0.0079
2B	Rubiaceae	Psychotria pubescens	native	1	0.79	0.0020
2B	Rubiaceae	Faramea occidentalis	native	3	7.07	0.0177



3A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
3A	Euphorbiaceae	Hyeronima clusioides	native	29	660.52	1.6513
3A	Euphorbiaceae	Hyeronima clusioides	native	16	201.06	0.5027
3A	Euphorbiaceae	Hyeronima clusioides	native	13	132.73	0.3318
3A	Euphorbiaceae	Hyeronima clusioides	native	12	113.10	0.2827
3A	Euphorbiaceae	Hyeronima clusioides	native	12	113.10	0.2827
3A	Euphorbiaceae	Hyeronima clusioides	native	10	78.54	0.1963
3A	Lauraceae	Ocotea leucoxydon	native	3	7.07	0.0177
3A	Lauraceae	Ocotea leucoxydon	native	3	7.07	0.0177
3A	Malvaceae	Hibiscus elatus	exotic	50	1963.50	4.9087
3A	Malvaceae	Hibiscus elatus	exotic	49	1885.74	4.7144
3A	Malvaceae	Hibiscus elatus	exotic	41	1320.25	3.3006
3A	Malvaceae	Hibiscus elatus	exotic	41	1320.25	3.3006
3A	Malvaceae	Hibiscus elatus	exotic	40	1256.64	3.1416
3A	Malvaceae	Hibiscus elatus	exotic	39	1194.59	2.9865
3A	Malvaceae	Hibiscus elatus	exotic	37	1075.21	2.6880
3A	Malvaceae	Hibiscus elatus	exotic	36	1017.88	2.5447
3A	Malvaceae	Hibiscus elatus	exotic	28	615.75	1.5394
3A	Malvaceae	Hibiscus elatus	exotic	24	452.39	1.1310
3A	Malvaceae	Hibiscus elatus	exotic	9	63.62	0.1590
3A	Malvaceae	Hibiscus elatus	exotic	8	50.27	0.1257
3A	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
3A	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
3A	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
3A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
3A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
3A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
3A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
3A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
3A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
3A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
3A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
3A	Meliaceae	Guarea guidonia	native	11	95.03	0.2376
3A	Meliaceae	Guarea guidonia	native	4	12.57	0.0314
3A	Meliaceae	Guarea guidonia	native	4	12.57	0.0314
3A	Meliaceae	Guarea guidonia	native	4	12.57	0.0314
3A	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079

3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3A	Sapindaceae	Exothea paniculata	native	35	962.11	2.4053
3A	Sapindaceae	Exothea paniculata	native	18	254.47	0.6362
3A	Sapindaceae	Exothea paniculata	native	5	19.63	0.0491
3A	Sapindaceae	Exothea paniculata	native	2	3.14	0.0079
3A	Sapindaceae	Exothea paniculata	native	1	0.79	0.0020
3B	Araliaceae	Dendropanax arboreum	native	16	201.06	0.5027
3B	Araliaceae	Dendropanax arboreum	native	11	95.03	0.2376
3B	Araliaceae	Dendropanax arboreum	native	7	38.48	0.0962
3B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
3B	Bignoniaceae	Spathodea campanulata	exotic	2	3.14	0.0079
3B	Bombacaceae	Quararibaea turbinata	native	4	12.57	0.0314
3B	Bombacaceae	Quararibaea turbinata	native	2	3.14	0.0079
3B	Clusiaceae	Calophyllum calaba	native	13	132.73	0.3318
3B	Clusiaceae	Calophyllum calaba	native	5	19.63	0.0491
3B	Clusiaceae	Calophyllum calaba	native	5	19.63	0.0491
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
3B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177





3B	Euphorbiaceae	Hyeronima clusioides	native	9	63.62	0.1590
3B	Euphorbiaceae	Hyeronima clusioides	native	8	50.27	0.1257
3B	Fabaceae	Inga vera	native	2	3.14	0.0079
3B	Fabaceae	Andira inermis	native	1	0.79	0.0020
3B	Lauraceae	Ocotea patens	native	4	12.57	0.0314
3B	Lauraceae	Ocotea leucoxydon	native	1	0.79	0.0020
3B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
3B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
3B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
3B	Melastomataceae	Miconia laevigata	native	1	0.79	0.0020
3B	Meliaceae	Guarea ramiflora	native	2	3.14	0.0079
3B	Meliaceae	Guarea ramiflora	native	2	3.14	0.0079
3B	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
3B	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
3B	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3B	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3B	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3B	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
3B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
3B	Moraceae	Castilla elastica	exotic	4	12.57	0.0314
3B	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
3B	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
3B	Piperaceae	Piper jaquemontianum	native	1	0.79	0.0020
3B	Rubiaceae	Chione venosa	native	5	19.63	0.0491
3B	Urticaceae	Urera baccifera	native	1	0.79	0.0020
4A	Bignoniaceae	Tabebuia heterophylla	native	5	19.63	0.4909
4A	Bignoniaceae	Tabebuia heterophylla	native	2	3.14	0.0785
4A	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314
4A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
4A	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
4A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
4A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
4A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
4A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
4A	Clusiaceae	Calophyllum calaba	native	2	3.14	0.0079
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020

4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4A	Fabaceae	Peltophorum inermis	native	4	12.57	0.0314
4A	Fabaceae	Peltophorum inermis	native	2	3.14	0.0079
4A	Fabaceae	Peltophorum inermis	native	1	0.79	0.0020
4A	Fabaceae	Peltophorum inermis	native	1	0.79	0.0020
4A	Fabaceae	Peltophorum inermis	native	1	0.79	0.0020
4A	Fabaceae	Inga fagifolia	native	2	3.14	0.0079
4A	Fabaceae	Adenanthera pavonina	exotic	2	3.14	0.0079
4A	Flacourtiaceae	Casearia decandra	native	3	7.07	0.0177
4A	Malvaceae	Hibiscus elatus	exotic	68	3631.68	9.0792
4A	Malvaceae	Hibiscus elatus	exotic	43	1452.20	3.6305
4A	Malvaceae	Hibiscus elatus	exotic	27	572.56	1.4314
4A	Malvaceae	Hibiscus elatus	exotic	21	346.36	0.8659
4A	Malvaceae	Hibiscus elatus	exotic	20	314.16	0.7854
4A	Malvaceae	Hibiscus elatus	exotic	15	176.71	0.4418
4A	Malvaceae	Hibiscus elatus	exotic	13	132.73	0.3318
4A	Malvaceae	Hibiscus elatus	exotic	13	132.73	0.3318
4A	Malvaceae	Hibiscus elatus	exotic	12	113.10	0.2827
4A	Malvaceae	Hibiscus elatus	exotic	12	113.10	0.2827
4A	Malvaceae	Hibiscus elatus	exotic	12	113.10	0.2827
4A	Malvaceae	Hibiscus elatus	exotic	11	95.03	0.2376
4A	Malvaceae	Hibiscus elatus	exotic	11	95.03	0.2376
4A	Malvaceae	Hibiscus elatus	exotic	10	78.54	0.1963
4A	Malvaceae	Hibiscus elatus	exotic	9	63.62	0.1590
4A	Malvaceae	Hibiscus elatus	exotic	9	63.62	0.1590
4A	Malvaceae	Hibiscus elatus	exotic	8	50.27	0.1257
4A	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
4A	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
4A	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4A	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
4A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
4A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
4A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
4A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
4A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314







4A	Meliaceae	Guarea ramiflora	native	6	28.27	0.0707
4A	Meliaceae	Guarea ramiflora	native	1	0.79	0.0020
4A	Meliaceae	Guarea ramiflora	native	1	0.79	0.0020
4A	Meliaceae	Guarea ramiflora	native	1	0.79	0.0020
4A	Meliaceae	Guarea guidonia	native	13	132.73	0.3318
4A	Meliaceae	Guarea guidonia	native	11	95.03	0.2376
4A	Meliaceae	Guarea guidonia	native	9	63.62	0.1590
4A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
4A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
4A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
4A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
4A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
4A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
4A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
4A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
4A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
4A	Moraceae	Castilla elastica	exotic	1	0.79	0.0020
4A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
4A	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
4A	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
4A	Myrtaceae	Eugenia biflora	native	4	12.57	0.0314
4A	Pinaceae	Pinus caribea	exotic	63	3117.25	7.7931
4A	Rubiaceae	Anthocephalus chinensis	exotic	22	380.13	0.9503
4A	Rubiaceae	Anthocephalus chinensis	exotic	18	254.47	0.6362
4A	Sapindaceae	Thouinia striata	native	2	3.14	0.0079
4B	Anacardiaceae	Comocladia glabra	native	3	7.07	0.0177
4B	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
4B	Bignoniaceae	Tabebuia heterophylla	native	6	28.27	0.0707
4B	Bignoniaceae	Tabebuia heterophylla	native	4	12.57	0.0314
4B	Bignoniaceae	Tabebuia heterophylla	native	2	3.14	0.0079
4B	Bignoniaceae	Tabebuia heterophylla	native	2	3.14	0.0079
4B	Bignoniaceae	Tabebuia heterophylla	native	2	3.14	0.0079
4B	Bignoniaceae	Tabebuia heterophylla	native	2	3.14	0.0079
4B	Bignoniaceae	Tabebuia heterophylla	native	2	3.14	0.0079
4B	Bignoniaceae	Tabebuia heterophylla	native	1	0.79	0.0020
4B	Bignoniaceae	Tabebuia heterophylla	native	1	0.79	0.0020
4B	Bignoniaceae	Tabebuia heterophylla	native	1	0.79	0.0020
4B	Boraginaceae	Cordia sulcata	native	2	3.14	0.0079
4B	Clusiaceae	Calophyllum calaba	native	6	28.27	0.0707
4B	Clusiaceae	Calophyllum calaba	native	5	19.63	0.0491
4B	Clusiaceae	Calophyllum calaba	native	5	19.63	0.0491
4B	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314
4B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
4B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
4B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177
4B	Clusiaceae	Calophyllum calaba	native	3	7.07	0.0177



4B	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4B	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4B	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
4B	Euphorbiaceae	Sapium laurocerasus	native	1	0.79	0.0020
4B	Fabaceae	Peltophorum pterocarpium	exotic	2	3.14	0.0079
4B	Fabaceae	Inga fagifolia	native	2	3.14	0.0079
4B	Fabaceae	Inga fagifolia	native	1	0.79	0.0020
4B	Fabaceae	Erythrina poeppigiana	exotic	6	28.27	0.0707
4B	Fabaceae	Erythrina poeppigiana	exotic	4	12.57	0.0314
4B	Fabaceae	Erythrina poeppigiana	exotic	4	12.57	0.0314
4B	Fabaceae	Erythrina poeppigiana	exotic	2	3.14	0.0079
4B	Fabaceae	Erythrina poeppigiana	exotic	2	3.14	0.0079
4B	Fabaceae	Andira inermis	native	8	50.27	0.1257
4B	Fabaceae	Andira inermis	native	3	7.07	0.0177
4B	Flacourtiaceae	Casearia decandra	native	1	0.79	0.0020
4B	Lauraceae	Ocotea leucoxydon	native	1	0.79	0.0020
4B	Lauraceae	Ocotea floribunda	native	1	0.79	0.0020
4B	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
4B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
4B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
4B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
4B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
4B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
4B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
4B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
4B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314





4B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
4B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
4B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
4B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
4B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
4B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
4B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
4B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
4B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
4B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
4B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	7	38.48	0.0962
4B	Melastomataceae	Miconia prasina	native	5	19.63	0.0491
4B	Melastomataceae	Miconia prasina	native	5	19.63	0.0491
4B	Melastomataceae	Miconia prasina	native	3	7.07	0.0177
4B	Melastomataceae	Miconia prasina	native	3	7.07	0.0177
4B	Melastomataceae	Miconia prasina	native	2	3.14	0.0079
4B	Melastomataceae	Miconia prasina	native	2	3.14	0.0079
4B	Melastomataceae	Miconia prasina	native	2	3.14	0.0079
4B	Melastomataceae	Miconia prasina	native	2	3.14	0.0079
4B	Melastomataceae	Miconia prasina	native	2	3.14	0.0079
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
4B	Melastomataceae	Miconia impetiolearis	native	2	3.14	0.0079
4B	Melastomataceae	Miconia impetiolearis	native	2	3.14	0.0079
4B	Melastomataceae	Miconia impetiolearis	native	2	3.14	0.0079
4B	Melastomataceae	Miconia impetiolearis	native	1	0.79	0.0020
4B	Melastomataceae	Miconia impetiolearis	native	1	0.79	0.0020
4B	Melastomataceae	Miconia impetiolearis	native	1	0.79	0.0020
4B	Meliaceae	Guarea ramiflora	native	5	19.63	0.0491
4B	Meliaceae	Guarea ramiflora	native	3	7.07	0.0177
4B	Meliaceae	Guarea ramiflora	native	3	7.07	0.0177



4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
4B	Myrsinaceae	Ardisia obovata	native	6	28.27	0.0707
4B	Myrsinaceae	Ardisia obovata	native	2	3.14	0.0079
4B	Myrtaceae	Syzygium malaccense	exotic	6	28.27	0.0707
4B	Myrtaceae	Syzygium jambos	exotic	6	28.27	0.0707
4B	Myrtaceae	Syzygium jambos	exotic	5	19.63	0.0491
4B	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
4B	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
4B	Myrtaceae	Syzygium jambos	exotic	3	7.07	0.0177
4B	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
4B	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
4B	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
4B	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
4B	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
4B	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
4B	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
4B	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
4B	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
4B	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
4B	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
4B	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
4B	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
4B	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
4B	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
4B	Piperaceae	Piper jaquemontianum	native	2	3.14	0.0079
4B	Sapindaceae	Thouinia striata	native	1	0.79	0.0020
4B	Sapindaceae	Thouinia striata	native	1	0.79	0.0020
4B	Sapindaceae	Thouinia striata	native	1	0.79	0.0020
5A	Areceae	Roystonea borinquena	native	38	1134.11	2.8353
5A	Areceae	Roystonea borinquena	native	37	1075.21	2.6880
5A	Clusiaceae	Calophyllum calaba	native	13	132.73	0.3318























5A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
5A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
5A	Fabaceae	Andira inermis	native	3	7.07	0.0177
5A	Fabaceae	Andira inermis	native	2	3.14	0.0079
5A	Flacourtiaceae	Casearia sylvestris	native	2	3.14	0.0079
5A	Lauraceae	Ocotea patens	native	5	19.63	0.0491
5A	Lauraceae	Ocotea leucoxylon	native	4	12.57	0.0314
5A	Lauraceae	Ocotea leucoxylon	native	1	0.79	0.0020
5A	Malvaceae	Hibiscus elatus	exotic	35	962.11	2.4053
5A	Malvaceae	Hibiscus elatus	exotic	32	804.25	2.0106
5A	Malvaceae	Hibiscus elatus	exotic	32	804.25	2.0106
5A	Malvaceae	Hibiscus elatus	exotic	31	754.77	1.8869
5A	Malvaceae	Hibiscus elatus	exotic	31	754.77	1.8869
5A	Malvaceae	Hibiscus elatus	exotic	27	572.56	1.4314
5A	Malvaceae	Hibiscus elatus	exotic	27	572.56	1.4314
5A	Malvaceae	Hibiscus elatus	exotic	26	530.93	1.3273
5A	Malvaceae	Hibiscus elatus	exotic	25	490.87	1.2272
5A	Malvaceae	Hibiscus elatus	exotic	24	452.39	1.1310
5A	Malvaceae	Hibiscus elatus	exotic	24	452.39	1.1310
5A	Malvaceae	Hibiscus elatus	exotic	24	452.39	1.1310
5A	Malvaceae	Hibiscus elatus	exotic	24	452.39	1.1310
5A	Malvaceae	Hibiscus elatus	exotic	23	415.48	1.0387
5A	Malvaceae	Hibiscus elatus	exotic	23	415.48	1.0387
5A	Malvaceae	Hibiscus elatus	exotic	22	380.13	0.9503
5A	Malvaceae	Hibiscus elatus	exotic	22	380.13	0.9503
5A	Malvaceae	Hibiscus elatus	exotic	20	314.16	0.7854
5A	Malvaceae	Hibiscus elatus	exotic	20	314.16	0.7854
5A	Malvaceae	Hibiscus elatus	exotic	20	314.16	0.7854
5A	Malvaceae	Hibiscus elatus	exotic	19	283.53	0.7088
5A	Malvaceae	Hibiscus elatus	exotic	18	254.47	0.6362
5A	Malvaceae	Hibiscus elatus	exotic	18	254.47	0.6362
5A	Malvaceae	Hibiscus elatus	exotic	18	254.47	0.6362
5A	Malvaceae	Hibiscus elatus	exotic	18	254.47	0.6362
5A	Malvaceae	Hibiscus elatus	exotic	17	226.98	0.5675
5A	Malvaceae	Hibiscus elatus	exotic	17	226.98	0.5675
5A	Malvaceae	Hibiscus elatus	exotic	16	201.06	0.5027
5A	Malvaceae	Hibiscus elatus	exotic	16	201.06	0.5027
5A	Malvaceae	Hibiscus elatus	exotic	16	201.06	0.5027
5A	Malvaceae	Hibiscus elatus	exotic	16	201.06	0.5027
5A	Malvaceae	Hibiscus elatus	exotic	16	201.06	0.5027
5A	Malvaceae	Hibiscus elatus	exotic	15	176.71	0.4418
5A	Malvaceae	Hibiscus elatus	exotic	15	176.71	0.4418
5A	Malvaceae	Hibiscus elatus	exotic	15	176.71	0.4418
5A	Malvaceae	Hibiscus elatus	exotic	14	153.94	0.3848
5A	Malvaceae	Hibiscus elatus	exotic	14	153.94	0.3848

5A	Malvaceae	Hibiscus elatus	exotic	14	153.94	0.3848
5A	Malvaceae	Hibiscus elatus	exotic	13	132.73	0.3318
5A	Malvaceae	Hibiscus elatus	exotic	13	132.73	0.3318
5A	Malvaceae	Hibiscus elatus	exotic	13	132.73	0.3318
5A	Malvaceae	Hibiscus elatus	exotic	13	132.73	0.3318
5A	Malvaceae	Hibiscus elatus	exotic	12	113.10	0.2827
5A	Malvaceae	Hibiscus elatus	exotic	12	113.10	0.2827
5A	Malvaceae	Hibiscus elatus	exotic	11	95.03	0.2376
5A	Malvaceae	Hibiscus elatus	exotic	11	95.03	0.2376
5A	Malvaceae	Hibiscus elatus	exotic	11	95.03	0.2376
5A	Malvaceae	Hibiscus elatus	exotic	11	95.03	0.2376
5A	Malvaceae	Hibiscus elatus	exotic	11	95.03	0.2376
5A	Malvaceae	Hibiscus elatus	exotic	10	78.54	0.1963
5A	Malvaceae	Hibiscus elatus	exotic	9	63.62	0.1590
5A	Malvaceae	Hibiscus elatus	exotic	9	63.62	0.1590
5A	Malvaceae	Hibiscus elatus	exotic	8	50.27	0.1257
5A	Malvaceae	Hibiscus elatus	exotic	8	50.27	0.1257
5A	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
5A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
5A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
5A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
5A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
5A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
5A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
5A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
5A	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
5A	Melastomataceae	Miconia impetio	native	1	0.79	0.0020
5A	Meliaceae	Guarea guidonia	native	5	19.63	0.0491
5A	Myrtaceae	Eugenia monticola	native	6	28.27	0.0707
5A	Rubiaceae	Psychotria pubescens	native	1	0.79	0.0020
5A	Rubiaceae	Neolaugeria resinosa	native	1	0.79	0.0020
5A	Sapindaceae	Thouinia striata	native	7	38.48	0.0962
5A			native	1	0.79	0.0020
5B	Araliaceae	Dendropanax arboreum	native	25	490.87	1.2272
5B	Clusiaceae	Calophyllum calaba	native	12	113.10	0.2827
5B	Clusiaceae	Calophyllum calaba	native	10	78.54	0.1963
5B	Clusiaceae	Calophyllum calaba	native	10	78.54	0.1963
5B	Clusiaceae	Calophyllum calaba	native	6	28.27	0.0707
5B	Clusiaceae	Calophyllum calaba	native	5	19.63	0.0491
5B	Clusiaceae	Calophyllum calaba	native	5	19.63	0.0491
5B	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314
5B	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314
5B	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314
5B	Clusiaceae	Calophyllum calaba	native	4	12.57	0.0314













5B	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
5B	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
5B	Flacourtiaceae	Casearia sylvestris	native	2	3.14	0.0079
5B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
5B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
5B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
5B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
5B	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
5B	Meliaceae	Guarea guidonia	native	20	314.16	0.7854
5B	Meliaceae	Guarea guidonia	native	19	283.53	0.7088
5B	Meliaceae	Guarea guidonia	native	18	254.47	0.6362
5B	Meliaceae	Guarea guidonia	native	16	201.06	0.5027
5B	Meliaceae	Guarea guidonia	native	4	12.57	0.0314
6A	Anacardiaceae	Spondias dulcis	native	4	12.57	0.0314
6A	Anacardiaceae	Spondias dulcis	native	3	7.07	0.0177
6A	Araliaceae	Dendropanax arboreum	native	3	7.07	0.0177
6A	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
6A	Bignoniaceae	Spathodea campanulata	exotic	4	12.57	0.0314
6A	Bignoniaceae	Spathodea campanulata	exotic	4	12.57	0.0314
6A	Clusiaceae	Calophyllum calaba	native	1	0.79	0.0020
6A	Combretaceae	Bucida buceras	native	1	0.79	0.0020
6A	Fabaceae	Andira inermis	native	5	19.63	0.0491
6A	Fabaceae	Andira inermis	native	4	12.57	0.0314
6A	Fabaceae	Andira inermis	native	3	7.07	0.0177
6A	Fabaceae	Andira inermis	native	3	7.07	0.0177
6A	Fabaceae	Andira inermis	native	3	7.07	0.0177
6A	Fabaceae	Andira inermis	native	3	7.07	0.0177
6A	Fabaceae	Andira inermis	native	2	3.14	0.0079
6A	Fabaceae	Andira inermis	native	2	3.14	0.0079
6A	Fabaceae	Andira inermis	native	2	3.14	0.0079
6A	Fabaceae	Andira inermis	native	1	0.79	0.0020
6A	Flacourtiaceae	Casearia sylvestris	native	1	0.79	0.0020
6A	Lauraceae	Ocotea leucoxyton	native	5	19.63	0.0491
6A	Lauraceae	Ocotea leucoxyton	native	4	12.57	0.0314
6A	Lauraceae	Ocotea leucoxyton	native	3	7.07	0.0177
6A	Lauraceae	Ocotea leucoxyton	native	3	7.07	0.0177
6A	Lauraceae	Ocotea leucoxyton	native	2	3.14	0.0079
6A	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
6A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
6A	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
6A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
6A	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
6A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
6A	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177

6A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
6A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
6A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
6A	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
6A	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
6A	Melastomataceae	Miconia prasina	native	5	19.63	0.0491
6A	Melastomataceae	Miconia prasina	native	5	19.63	0.0491
6A	Melastomataceae	Miconia prasina	native	5	19.63	0.0491
6A	Melastomataceae	Miconia prasina	native	4	12.57	0.0314
6A	Melastomataceae	Miconia prasina	native	4	12.57	0.0314
6A	Melastomataceae	Miconia prasina	native	2	3.14	0.0079
6A	Melastomataceae	Miconia impetiolearis	native	2	3.14	0.0079
6A	Melastomataceae	Miconia impetiolearis	native	1	0.79	0.0020
6A	Meliaceae	Guarea guidonia	native	5	19.63	0.0491
6A	Meliaceae	Guarea guidonia	native	5	19.63	0.0491
6A	Meliaceae	Guarea guidonia	native	4	12.57	0.0314
6A	Meliaceae	Guarea guidonia	native	4	12.57	0.0314
6A	Meliaceae	Guarea guidonia	native	4	12.57	0.0314
6A	Meliaceae	Guarea guidonia	native	4	12.57	0.0314
6A	Meliaceae	Guarea guidonia	native	4	12.57	0.0314
6A	Meliaceae	Guarea guidonia	native	4	12.57	0.0314
6A	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
6A	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
6A	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
6A	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
6A	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
6A	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
6A	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
6A	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
6A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
6A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
6A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
6A	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
6A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6A	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6A	Moraceae	Ficus trigonata	native	2	3.14	0.0079
6A	Moraceae	Castilla elastica	exotic	9	63.62	0.1590
6A	Moraceae	Castilla elastica	exotic	7	38.48	0.0962
6A	Moraceae	Castilla elastica	exotic	7	38.48	0.0962
6A	Moraceae	Castilla elastica	exotic	7	38.48	0.0962
6A	Moraceae	Castilla elastica	exotic	6	28.27	0.0707
6A	Moraceae	Castilla elastica	exotic	6	28.27	0.0707
6A	Moraceae	Castilla elastica	exotic	5	19.63	0.0491
6A	Moraceae	Castilla elastica	exotic	5	19.63	0.0491

6A	Moraceae	Castilla elastica	exotic	5	19.63	0.0491
6A	Moraceae	Castilla elastica	exotic	5	19.63	0.0491
6A	Moraceae	Castilla elastica	exotic	4	12.57	0.0314
6A	Moraceae	Castilla elastica	exotic	4	12.57	0.0314
6A	Moraceae	Castilla elastica	exotic	4	12.57	0.0314
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6A	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6A	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6A	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6A	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6A	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6A	Moraceae	Castilla elastica	exotic	1	0.79	0.0020
6A	Myrsinaceae	Parathesis crenulata	native	5	19.63	0.0491
6A	Myrsinaceae	Parathesis crenulata	native	3	7.07	0.0177
6A	Myrsinaceae	Parathesis crenulata	native	3	7.07	0.0177
6A	Myrsinaceae	Parathesis crenulata	native	3	7.07	0.0177
6A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
6A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
6A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
6A	Myrsinaceae	Parathesis crenulata	native	2	3.14	0.0079
6A	Myrsinaceae	Parathesis crenulata	native	1	0.79	0.0020
6A	Myrtaceae	Syzygium jambos	exotic	10	78.54	0.1963
6A	Myrtaceae	Syzygium jambos	exotic	9	63.62	0.1590
6A	Myrtaceae	Syzygium jambos	exotic	7	38.48	0.0962
6A	Myrtaceae	Syzygium jambos	exotic	6	28.27	0.0707
6A	Myrtaceae	Syzygium jambos	exotic	6	28.27	0.0707
6A	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
6A	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
6A	Myrtaceae	Syzygium jambos	exotic	3	7.07	0.0177
6A	Myrtaceae	Syzygium jambos	exotic	3	7.07	0.0177
6A	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079
6A	Myrtaceae	Syzygium jambos	exotic	2	3.14	0.0079



6A	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
6A	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
6A	Myrtaceae	Syzygium jambos	exotic	1	0.79	0.0020
6A	Rubiaceae	Guettarda ovalifolia	native	3	7.07	0.0177
6A	Rubiaceae	Guettarda ovalifolia	native	2	3.14	0.0079
6A	Rubiaceae	Coffea arabica	exotic	1	0.79	0.0020
6A			native	2	3.14	0.0079
6B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
6B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
6B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
6B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
6B	Araliaceae	Dendropanax arboreum	native	2	3.14	0.0079
6B	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
6B	Araliaceae	Dendropanax arboreum	native	1	0.79	0.0020
6B	Bignoniaceae	Spathodea campanulata	exotic	1	0.79	0.0020
6B	Bombacaceae	Quararibaea turbinata	native	5	19.63	0.0491
6B	Bombacaceae	Quararibaea turbinata	native	4	12.57	0.0314
6B	Bombacaceae	Quararibaea turbinata	native	4	12.57	0.0314
6B	Bombacaceae	Quararibaea turbinata	native	3	7.07	0.0177
6B	Bombacaceae	Quararibaea turbinata	native	3	7.07	0.0177
6B	Bombacaceae	Quararibaea turbinata	native	3	7.07	0.0177
6B	Bombacaceae	Quararibaea turbinata	native	2	3.14	0.0079
6B	Bombacaceae	Quararibaea turbinata	native	1	0.79	0.0020
6B	Combretaceae	Bucida buceras	native	1	0.79	0.0020
6B	Combretaceae	Bucida buceras	native	1	0.79	0.0020
6B	Combretaceae	Bucida buceras	native	1	0.79	0.0020
6B	Fabaceae	Pithecellobium arboreum	native	1	0.79	0.0020
6B	Fabaceae	Inga vera	native	9	63.62	0.1590
6B	Fabaceae	Inga vera	native	7	38.48	0.0962
6B	Fabaceae	Inga vera	native	4	12.57	0.0314
6B	Fabaceae	Inga vera	native	3	7.07	0.0177
6B	Fabaceae	Inga vera	native	3	7.07	0.0177
6B	Fabaceae	Inga vera	native	2	3.14	0.0079
6B	Fabaceae	Inga vera	native	2	3.14	0.0079
6B	Fabaceae	Inga vera	native	1	0.79	0.0020
6B	Fabaceae	Inga vera	native	1	0.79	0.0020
6B	Fabaceae	Inga vera	native	1	0.79	0.0020
6B	Fabaceae	Inga vera	native	1	0.79	0.0020
6B	Fabaceae	Inga vera	native	1	0.79	0.0020
6B	Fabaceae	Inga vera	native	1	0.79	0.0020
6B	Fabaceae	Erythrina poeppigiana	exotic	4	12.57	0.0314
6B	Fabaceae	Andira inermis	native	3	7.07	0.0177
6B	Fabaceae	Andira inermis	native	3	7.07	0.0177
6B	Fabaceae	Andira inermis	native	3	7.07	0.0177
6B	Fabaceae	Andira inermis	native	2	3.14	0.0079

6B	Fabaceae	Andira inermis	native	1	0.79	0.0020
6B	Fabaceae	Andira inermis	native	1	0.79	0.0020
6B	Flacourtiaceae	Casearia sylvestris	native	3	7.07	0.0177
6B	Flacourtiaceae	Casearia sylvestris	native	3	7.07	0.0177
6B	Flacourtiaceae	Casearia sylvestris	native	1	0.79	0.0020
6B	Flacourtiaceae	Casearia sylvestris	native	1	0.79	0.0020
6B	Flacourtiaceae	Casearia guianensis	native	1	0.79	0.0020
6B	Flacourtiaceae	Casearia guianensis	native	1	0.79	0.0020
6B	Lauraceae	Ocotea leucoxydon	native	2	3.14	0.0079
6B	Lauraceae	Ocotea leucoxydon	native	1	0.79	0.0020
6B	Lauraceae	Cinmomum montanum	native	2	3.14	0.0079
6B	Malvaceae	Hibiscus elatus	exotic	68	3631.68	9.0792
6B	Malvaceae	Hibiscus elatus	exotic	66	3421.19	8.5530
6B	Malvaceae	Hibiscus elatus	exotic	60	2827.43	7.0686
6B	Malvaceae	Hibiscus elatus	exotic	59	2733.97	6.8349
6B	Malvaceae	Hibiscus elatus	exotic	45	1590.43	3.9761
6B	Malvaceae	Hibiscus elatus	exotic	44	1520.53	3.8013
6B	Malvaceae	Hibiscus elatus	exotic	40	1256.64	3.1416
6B	Malvaceae	Hibiscus elatus	exotic	38	1134.11	2.8353
6B	Malvaceae	Hibiscus elatus	exotic	37	1075.21	2.6880
6B	Malvaceae	Hibiscus elatus	exotic	33	855.30	2.1382
6B	Malvaceae	Hibiscus elatus	exotic	25	490.87	1.2272
6B	Malvaceae	Hibiscus elatus	exotic	19	283.53	0.7088
6B	Malvaceae	Hibiscus elatus	exotic	17	226.98	0.5675
6B	Malvaceae	Hibiscus elatus	exotic	16	201.06	0.5027
6B	Malvaceae	Hibiscus elatus	exotic	13	132.73	0.3318
6B	Malvaceae	Hibiscus elatus	exotic	13	132.73	0.3318
6B	Malvaceae	Hibiscus elatus	exotic	12	113.10	0.2827
6B	Malvaceae	Hibiscus elatus	exotic	12	113.10	0.2827
6B	Malvaceae	Hibiscus elatus	exotic	10	78.54	0.1963
6B	Malvaceae	Hibiscus elatus	exotic	10	78.54	0.1963
6B	Malvaceae	Hibiscus elatus	exotic	8	50.27	0.1257
6B	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
6B	Malvaceae	Hibiscus elatus	exotic	7	38.48	0.0962
6B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
6B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
6B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
6B	Malvaceae	Hibiscus elatus	exotic	6	28.27	0.0707
6B	Malvaceae	Hibiscus elatus	exotic	5	19.63	0.0491
6B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
6B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
6B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
6B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
6B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314

6B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
6B	Malvaceae	Hibiscus elatus	exotic	4	12.57	0.0314
6B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
6B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
6B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
6B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
6B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
6B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
6B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
6B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
6B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
6B	Malvaceae	Hibiscus elatus	exotic	3	7.07	0.0177
6B	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
6B	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
6B	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
6B	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
6B	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
6B	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
6B	Malvaceae	Hibiscus elatus	exotic	2	3.14	0.0079
6B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
6B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
6B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
6B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
6B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
6B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
6B	Malvaceae	Hibiscus elatus	exotic	1	0.79	0.0020
6B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
6B	Melastomataceae	Miconia prasina	native	1	0.79	0.0020
6B	Melastomataceae	Miconia impetolaris	native	2	3.14	0.0079
6B	Meliaceae	Guarea guidonia	native	3	7.07	0.0177
6B	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
6B	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
6B	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
6B	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
6B	Meliaceae	Guarea guidonia	native	2	3.14	0.0079
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020

6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Meliaceae	Guarea guidonia	native	1	0.79	0.0020
6B	Moraceae	Castilla elastica	exotic	9	63.62	0.1590
6B	Moraceae	Castilla elastica	exotic	7	38.48	0.0962
6B	Moraceae	Castilla elastica	exotic	6	28.27	0.0707
6B	Moraceae	Castilla elastica	exotic	6	28.27	0.0707
6B	Moraceae	Castilla elastica	exotic	5	19.63	0.0491
6B	Moraceae	Castilla elastica	exotic	4	12.57	0.0314
6B	Moraceae	Castilla elastica	exotic	4	12.57	0.0314
6B	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6B	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6B	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6B	Moraceae	Castilla elastica	exotic	3	7.07	0.0177
6B	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6B	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6B	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6B	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6B	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6B	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6B	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6B	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6B	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6B	Moraceae	Castilla elastica	exotic	2	3.14	0.0079
6B	Moraceae	Castilla elastica	exotic	1	0.79	0.0020
6B	Moraceae	Castilla elastica	exotic	1	0.79	0.0020
6B	Moraceae	Castilla elastica	exotic	1	0.79	0.0020
6B	Moraceae	Castilla elastica	exotic	1	0.79	0.0020
6B	Moraceae	Castilla elastica	exotic	1	0.79	0.0020
6B	Moraceae	Castilla elastica	exotic	1	0.79	0.0020
6B	Moraceae	Castilla elastica	exotic	1	0.79	0.0020
6B	Moraceae	Castilla elastica	exotic	1	0.79	0.0020
6B	Myrtaceae	Syzygium jambos	exotic	4	12.57	0.0314
6B	Myrtaceae	Syzygium jambos	exotic	3	7.07	0.0177

6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	2	3.14	0.0079
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	2	3.14	0.0079
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	2	3.14	0.0079
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	2	3.14	0.0079
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Myrtaceae	<i>Syzygium jambos</i>	exotic	1	0.79	0.0020
6B	Rubiaceae	<i>Genipa americana</i>	native	4	12.57	0.0314
6B	Rubiaceae	<i>Genipa americana</i>	native	1	0.79	0.0020
6B	Rubiaceae	<i>Coffea arabica</i>	exotic	1	0.79	0.0020
6B	Rubiaceae	<i>Coffea arabica</i>	exotic	1	0.79	0.0020
6B	Rutaceae	<i>Zanthoxylon martinicense</i>	native	3	7.07	0.0177
6B	Rutaceae	<i>Zanthoxylon martinicense</i>	native	2	3.14	0.0079