

Status report for the performance and adaptation of selected woody species for conservation, restoration, and enhancement of neotropical habitat

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**Project Title:** An accelerated program of woody plant species selection for conservation, restoration, and neotropical habitat enhancement, performance and adaptation trials

**Project Description:** This is a three year cooperative agreement that began in 2001 between BTNEP and NRCS to identify native woody plant species suitable for coastal restoration and remediation activities. The main focus is to identify native tree and shrub species that can be successfully planted and established on terrestrial areas of coastal Louisiana which in turn will provide habitat for migratory avian species.

An action team organized by BTNEP identified and selected the following ten species for planting and evaluation:

*Acacia farnesiana* (sweet acacia)  
*Callicarpa americana* (American beautyberry)  
*Celtis laevigata* (sugarberry)  
*Diospyros virginiana* (persimmon)  
*Gleditsia triacanthos* (honey locust)  
*Ilex vomitoria* (yaupon)  
*Morella cerifera* (way myrtle)  
*Morus rubra* (red mulberry)  
*Quercus virginiana* (live oak)  
*Zanthoxylum clava-herculis* (Hercules club)

An assembly of seeds collected from native populations of selected tree species was made in 2001. Literature was reviewed to determine germination procedures for each species. Seeds were germinated and established seedlings were transplanted to trade gallon containers for grow out and preparation for field planting (Figure 1, 2). Replicated plantings were established at five locations in 2003 (Table 1). Performance and adaptation data is collected from each field planting site during May and October of each year. Quantitative data is collected for survival and growth measurements of plant height, basal stem diameter, and plant canopy spread. Qualitative data is collected for plant vigor, noticeable disease, and pests.

Figure 1. Germination of woody seed collections



Figure 2. Growout of woody seed collections



## Table 1. Field Planting Sites

Port Fourchon Marsh Creation Site (dedicated sediments), Lafourche Parish, LA  
Barataria Waterway Spoilbank, Jefferson Parish, LA  
LUMCOM developed site, Terrebonne Parish, LA  
Grand Isle (barrier island), Jefferson Parish, LA  
Trinity Island (barrier island), Terrebonne Parish, LA

**Summary of Progress:** Three objectives were identified for this phase of the project.

Objective 1. Monitor performance and adaptation of woody plant materials established at each field planting site. Began collecting field data in September of 2003 from each planting site (Table 2). Measurements are recorded during the spring and fall of each year, i.e., just after full leaf emergence in the spring (May) and then again before leaf senescence in the fall (October) (Figure 4). Summary data of field observations will be completed and analyzed in 2006. *Ilex vomitoria* was the only species of the ten action team selections that did not make it into field plantings. Seedlings of *I. vomitoria* were not available at the time of planting. Stratification and scarification methods did not prove successful until two years after applying seed treatments. Container grown plant materials of *I. vomitoria* will be used to plant to the field planting locations in late 2005.

Objective 2. Establish nursery seed trees at the Golden Meadow Plant Materials Center. Container plant materials were planted to PMC Field E in 2004. Plant establishment and growth has been poor. Raised planting beds will be formed and planted to selected tree species early in 2006.

Objective 3. Establish demonstration planting sites on Timbalier Island and Barataria Waterway. One demonstration planting was established in the Barataria Waterway in 2003. This planting was unsuccessful. Timbalier Island will be planted early 2006. Another suitable site will be located in October of 2005.



Figure 4. Field evaluation of *Morella cerifera* and *Celtis laevigata*



Table 2. Evaluation data sheet Port Fourchon Site No. 2

	Plot #	Species	Basal Diameter (mm)	Overall Height (cm)	Overall Spread (cm)	Plant Vigor	Disease	Pest
1	101	Zanthoxylum clavaherculis	15.82	100	60	2	N	N
2	102	Acacia farnesiana	*	260	370	5	N	N
3	103	Celtis laevigata	16.38	130	60	4	N	N
4	104	Acacia farnesiana	*	320	450	3	N	N
5	105	Acacia farnesiana	*	230	420	3	N	N
6	106	Quercus virginiana	37.52	230	110	1	N	N
7	107	Morus rubra	35.45	180	170	1	N	N
8	108	Celtis laevigata	19.94	170	50	3	N	N
9	109	Quercus virginiana	41.57	210	170	2	N	N
10	110	Celtis laevigata	13.13	90	20	4	N	N
11	111	Morus rubra	15.93	160	80	4	N	N
12	112	Acacia farnesiana	*	250	330	3	N	N
13	113	Acacia farnesiana	*	170	440	4	N	N
14	114	Celtis laevigata	12.98	50	20	7	N	N
15	115	Morus rubra	15.29	120	40	6	N	N
16	116	Quercus virginiana	18.82	100	120	4	N	N
17	117	Celtis laevigata	14.05	30	20	7	N	N
18	118	Quercus virginiana	18.53	80	30	4	N	N
19	119	Morella cerifera	-	-	-	9		
20	120	Morella cerifera	-	-	-	9		
21	121	Morella cerifera	-	-	-	9		
22	122	Morus rubra	-	-	-	9		
23	123	Acacia farnesiana	*	40	110	6	N	N
24	124	Quercus virginiana	-	-	-	9		
25	125	Morus rubra	-	-	-	9		
26	126	Quercus virginiana	13.71	20	10	8	N	N
27	127	Zanthoxylum clavaherculis	-			9		
28	201	Zanthoxylum clavaherculis	14.46	80	50	5	N	N
29	202	Morella cerifera	*	180	220	3	N	N
30	203	Morella cerifera	*	220	230	2	N	N
31	204	Morella cerifera	*	180	170	4	N	N
32	205	Acacia farnesiana	*	340	480	3	N	N
33	206	Quercus virginiana	31.30	200	80	1	N	N
34	207	Morella cerifera	*	200	260	2	N	N
35	208	Quercus virginiana	23.79	160	130	3	N	N
36	209	Morus rubra	17.93	160	70	3	N	N
37	210	Acacia farnesiana	*	310	480	3	N	N
38	211	Celtis laevigata	18.03	140	60	3	N	N
39	212	Quercus virginiana	22.42	220	90	1	N	N
40	213	Quercus virginiana	24.51	130	60	2	N	N
41	214	Celtis laevigata	13.37	110	50	5	N	N
42	215	Celtis laevigata	17.57	140	50	4	N	N
43	216	Acacia farnesiana	*	300	460	2	N	N
44	217	Morella cerifera	*	200	250	3	N	N
45	218	Celtis laevigata	14.08	90	40	5	N	N
46	219	Celtis laevigata	15.67	110	50	5	N	N

	Plot	Species	Basal Diameter (mm)	Overall Height (cm)	Overall Spread (cm)	Plant Vigor	Dise ase	Pest
	#							
47	220	Quercus virginiana	20.99	110	40	3	N	N
48	221	Acacia farnesiana	*	340	540	1	N	N
49	222	Morus rubra	16.12	100	20	5	N	N
50	223	Celtis laevigata	15.94	90	40	5	N	N
51	224	Celtis laevigata	14.25	70	30	5	N	N
52	225	Acacia farnesiana	*	320	590	2	N	N
53	226	Morus rubra	16.44	120	60	4	N	N
54	227	Zanthoxylum clava- herculis	13.97	110	30	6	N	N
55	301	Zanthoxylum clava- herculis	14.13	100	30	5	N	N
56	302	Morus rubra	15.81	90	50	6	N	N
57	303	Morus rubra	10.03	90	10	8	N	N
58	304	Quercus virginiana	18.82	80	70	3	N	N
59	305	Quercus virginiana	23.43	100	90	3	N	N
60	306	Morella cerifera	*	170	230	3	N	N
61	307	Morus rubra	14.53	100	30	5	N	N
62	308	Celtis laevigata	16.46	80	30	5	N	N
63	309	Morella cerifera	*	220	210	3	N	N
64	310	Acacia farnesiana	*	320	440	4	N	N
65	311	Quercus virginiana	24.19	160	80	2	N	N
66	312	Morus rubra	13.06	120	50	3	N	N
67	313	Morella cerifera	*	120	310	2	N	N
68	314	Celtis laevigata	13.26	80	30	5	N	N
69	315	Celtis laevigata	15.05	90	50	5	N	N
70	316	Quercus virginiana	24.30	170	90	2	N	N
71	317	Morella cerifera	*	240	250	1	N	N
72	318	Morella cerifera	*	230	280	1	N	N
73	319	Morus rubra	18.18	90	40	5	N	N
74	320	Acacia farnesiana	*	230	490	4	N	N
75	321	Morella cerifera	*	220	340	2	N	N
76	322	Morella cerifera	*	190	290	2	N	N
77	323	Morus rubra	13.00	120	30	4	N	N
78	324	Acacia farnesiana	*	280	460	3	N	N
79	325	Morus rubra	13.31	120	40	4	N	N
80	326	Acacia farnesiana	*	180	470	4	N	N
81	401	Parkinsonia aculeata	15.89	110	60	6	N	N
82	402	Diospyros virginiana	13.00	60	20	4	N	N
83	403	Callicarpa americana	7.33	50	40	4	N	N
84	404	Lantana camera	-	-	-	9		
85	405	Gleditsia triacanthos	12.92	60	40	6	N	N
86	406	Lantana camera	16.31	30	20	8	N	N
87	407	Parkinsonia aculeata	15.25	140	40	6	N	N
88	408	Diospyros virginiana	11.51	60	30	5	N	N
89	409	Gleditsia triacanthos	14.92	80	50	5	N	N
90	410	Callicarpa americana	10.65	50	50	5	N	N
91	411	Parkinsonia aculeata	15.64	100	40	5	N	N
92	412	Diospyros virginiana	13.14	70	30	3	N	N
93	413	Lantana camera	15.40	40	40	5	N	N
94	414	Gleditsia triacanthos	13.83	60	40	5	N	N
95	415	Diospyros virginiana	7.44	100	20	2	N	N

	Plot	Species	Basal Diameter (mm)	Overall Height (cm)	Overall Spread (cm)	Plant Vigor	Dise ase	Pest
	#							
96	416	<i>Parkinsonia aculeata</i>	12.03	100	100	4	N	N
97	417	<i>Lantana camera</i>	-	-	-	9		
98	418	<i>Callicarpa americana</i>	6.58	70	30	3	N	N
99	419	<i>Gleditsia triacanthos</i>	17.21	60	30	6	N	N
100	420	<i>Lantana camera</i>	10.10	30	30	8	N	N
101	421	<i>Diospyros virginiana</i>	13.55	80	20	4	N	N
102	422	<i>Callicarpa americana</i>	6.99	40	40	5	N	N
103	423	<i>Gleditsia triacanthos</i>	11.97	60	50	7	N	N
104	424	<i>Callicarpa americana</i>	6.56	50	50	4	N	N
105	425	<i>Parkinsonia aculeata</i>	14.96	120	40	6	N	N



**Table 2 (cont'). Evaluation data sheet, Port Fourchon Site No. 5**

	Plot	Species	Basal Diameter (mm)	Overall Height (cm)	Overall Spread (cm)	Plant Vigor	Disease	Pest
	#							
1	101	Zanthoxylum clava-herculis	-	-	-	9		
2	102	Quercus virginiana	15.98	90	80	5	N	N
3	103	Celtis laevigata	18.39	120	60	5	N	N
4	104	Quercus virginiana	15.13	90	70	4	N	N
5	105	Morus rubra	23.77	190	90	4	N	N
6	106	Morella cerifera	*	200	170	2	N	N
7	107	Celtis laevigata	20.38	140	90	3	N	N
8	108	Celtis laevigata	21.27	160	70	2	N	N
9	109	Quercus virginiana	23.69	140	100	3	N	N
10	110	Acacia farnesiana	*	280	380	3	N	N
11	111	Morus rubra	13.24	150	150	4	N	N
12	112	Acacia farnesiana	*	300	430	3	N	N
13	113	Acacia farnesiana	*	270	400	3	N	N
14	114	Morella cerifera	*	180	200	3	N	N
15	115	Quercus virginiana	16.93	90	60	5	N	N
16	116	Celtis laevigata	19.10	100	30	5	N	N
17	117	Morella cerifera	*	200	210	2	N	N
18	118	Celtis laevigata	15.35	90	30	5	N	N
19	119	Acacia farnesiana	*	320	470	3	N	N
20	120	Quercus virginiana	16.17	120	40	3	N	N
21	121	Celtis laevigata	12.97	70	20	5	N	N
22	122	Acacia farnesiana	*	350	450	3	N	N
23	123	Morus rubra	14.92	40	10	8	N	N
24	124	Celtis laevigata	14.30	80	30	5	N	N
25	125	Morus rubra	17.71	150	90	4	N	N
26	126	Quercus virginiana	18.59	120	110	3	N	N
27	127	Zanthoxylum clava-herculis	10.48	80	30	5	N	N
28	128	Parkinsonia aculeata	12.13	110	30	5	N	N
29	129	Lantana camera	12.54	30	30	5	N	N
30	130	Diospyros virginiana	12.27	60	20	4	N	N
31	131	Lantana camera	-	-	-	9		
32	132	Gleditsia triacanthos	16.19	90	50	6	N	N
33	133	Callicarpa americana	8.29	70	60	4	N	N
34	134	Parkinsonia aculeata	14.08	80	40	7	N	N
35	135	Lantana camera	14.68	40	40	7	N	N
36	201	Zanthoxylum clava-herculis	-	-	-	9		
37	202	Morella cerifera	-	-	-	9		
38	203	Morella cerifera	*	150	160	3	N	N

	Plot	Species	Basal Diameter (mm)	Overall Height (cm)	Overall Spread (cm)	Plant Vigor	Disease	Pest
	#							
39	204	Quercus virginiana	14.14	50	50	4	N	N
40	205	Morella cerifera	*	170	150	2	N	N
41	206	Morus rubra	26.01	200	110	1	N	N
42	207	Acacia farnesiana	*	300	360	4	N	N
43	208	Celtis laevigata	16.06	140	50	3	N	N
44	209	Morella cerifera	-	-	-	9		
45	210	Quercus virginiana	9.33	60	30	6	N	N
46	211	Quercus virginiana	12.68	70	30	6	N	N
47	212	Morus rubra	16.73	110	60	4	N	N
48	213	Celtis laevigata	17.99	100	60	3	N	N
49	214	Morus rubra	14.49	120	20	4	N	N
50	215	Celtis laevigata	13.21	100	20	4	N	N
51	216	Morus rubra	13.53	110	30	5	N	N
52	217	Celtis laevigata	16.29	120	50	4	N	N
53	218	Acacia farnesiana	*	270	440	3	N	N
54	219	Morella cerifera	*	110	90	3	N	N
55	220	Morus rubra	14.39	130	30	6	N	N
56	221	Morus rubra	19.98	140	70	4	N	N
57	222	Morella cerifera	*	180	200	3	N	N
58	223	Morella cerifera	*	250	220	2	N	N
59	224	Quercus virginiana	26.74	170	70	2	N	N
60	225	Acacia farnesiana	*	300	400	2	N	N
61	226	Acacia farnesiana	*	290	380	2	N	N
62	227	Zanthoxylum clava-herculis	13.44	80	30	5	N	N
63	228	Diospyros virginiana	15.18	60	30	3	N	N
64	229	Gleditsia triacanthos	15.57	90	30	7	N	N
65	230	Lantana camera	-	-	-	9		
66	231	Callicarpa americana	-	-	-	9		
67	232	Gleditsia triacanthos	13.37	80	20	8	N	N
68	233	Diospyros virginiana	-	-	-	9		
69	234	Parkinsonia aculeata	17.21	160	40	4	N	N
70	235	Parkinsonia aculeata	17.29	130	90	4	N	N
71	301	Zanthoxylum clava-herculis	7.88	70	50	3	N	N
72	302	Acacia farnesiana	*	120	450	4	N	N
73	303	Morus rubra	-			9		
74	304	Quercus virginiana	11.70	60	30	3	N	N
75	305	Celtis laevigata	15.03	40	10	7	N	N
76	306	Quercus virginiana	20.39	140	110	1	N	N
77	307	Morella cerifera	*	140	170	3	N	N
78	308	Morella cerifera	*	170	170	3	N	N
79	309	Celtis laevigata	20.96	140	60	1	N	N
80	310	Morella cerifera	*	170	240	2	N	N
81	311	Morus rubra	51.75	210	140	1	N	N
82	312	Quercus virginiana	15.81	110	120	3	N	N
83	313	Acacia farnesiana	*	350	490	2	N	N
84	314	Acacia farnesiana	*	230	300	4	N	N
85	315	Quercus virginiana	21.99	160	90	2	N	N
86	316	Morella cerifera	*	210	150	4	N	N
87	317	Morus rubra	35.00	220	170	1	N	N
88	318	Quercus virginiana	22.63	120	110	3	N	N

	Plot	Species	Basal Diameter (mm)	Overall Height (cm)	Overall Spread (cm)	Plant Vigor	Dise ase	Pest
	#							
89	319	Morus rubra	48.11	240	220	1	N	N
90	320	Celtis laevigata	19.15	150	80	3	N	N
91	321	Acacia farnesiana	*	280	440	4	N	N
92	322	Acacia farnesiana	*	260	380	4	N	N
93	323	Morella cerifera	*	170	170	3	N	N
94	324	Morus rubra	44.76	250	170	2	N	N
95	325	Celtis laevigata	29.01	200	80	1	N	N
96	326	Acacia farnesiana	*	260	350	5	N	Y
97	327	Parkinsonia aculeata	13.90	130	10	8	N	N
98	328	Callicarpa americana	7.78	50	20	6	N	N
99	329	Lantana camera	-	-	-	9		
100	330	Diospyros virginiana	15.21	90	40	4	N	N
101	331	Gleditsia triacanthos	14.28	60	50	6	N	N
102	332	Callicarpa americana	-	-	-	9		
103	333	Gleditsia triacanthos	18.13	60	30	7	N	N
104	334	Callicarpa americana	7.90	50	40	4	N	N
105	335	Diospyros virginiana	15.10	100	30	5	N	N

**Table 2 (cont'). Evaluation data sheet, Port Fourchon Site No. 8**

	Plot #	Species	Basal Diameter (mm)	Overall Height (cm)	Overall Spread (cm)	Plant Vigor	Dise ase	Pest
1	101	Zanthoxylum clava-herculis	14.02	100	50	5	N	N
2	102	Celtis laevigata	13.91	80	40	6	N	N
3	103	Morus rubra	12.93	90	40	5	N	N
4	104	Morus rubra	21.08	120	120	4	N	N
5	105	Morella cerifera	*	220	200	1	N	N
6	106	Acacia farnesiana	*	210	290	3	N	N
7	107	Acacia farnesiana	*	270	370	3	N	N
8	108	Quercus virginiana	13.42	100	50	5	N	N
9	109	Morella cerifera	*	200	220	2	N	N
10	110	Celtis laevigata	16.52	60	70	6	N	N
11	111	Acacia farnesiana	*	270	400	2	N	N
12	112	Celtis laevigata	16.72	140	90	5	N	N
13	113	Acacia farnesiana	*	170	280	3	N	N
14	114	Morus rubra	16.01	100	30	6	N	N
15	115	Acacia farnesiana	*	230	460	4	N	N
16	116	Morus rubra	18.52	90	50	4	N	N
17	117	Quercus virginiana	19.36	110	50	5	N	N
18	118	Morus rubra	21.82	140	100	6	N	N
19	119	Celtis laevigata	17.15	40	40	4	N	N
20	120	Celtis laevigata	14.64	80	50	4	N	N
21	121	Morella cerifera	*	190	270	3	N	N
22	122	Celtis laevigata	12.74	100	40	4	N	N
23	123	Acacia farnesiana	*	250	380	3	N	N
24	124	Acacia farnesiana	*	300	470	2	N	N
25	125	Quercus virginiana	24.69	140	80	3	N	N
26	126	Celtis laevigata	15.96	100	20	6	N	N
27	127	Zanthoxylum clava-herculis	10.47	60	20	7	N	N
28	128	Lantana camera	-	-	-	9		
29	129	Callicarpa americana	10.46	30	30	4	N	N
30	130	Gleditsia triacanthos	16.11	60	40	7	N	N
31	131	Parkinsonia aculeata	15.11	120	70	7	N	N
32	132	Callicarpa americana	8.32	40	30	6	N	N
33	133	Diospyros virginiana	14.40	60	40	4	N	N
34	134	Lantana camera	11.51	40	30	7	N	N
35	135	Gleditsia triacanthos	15.75	70	70	7	N	N
36	201	Zanthoxylum clava-herculis	12.39	70	20	6	N	N
37	202	Acacia farnesiana	*	270	460	1	N	N
38	203	Acacia farnesiana	*	210	340	5	N	N
39	204	Quercus virginiana	14.23	110	20	6	N	N
40	205	Morus rubra	10.78	60	40	6	N	N
41	206	Morella cerifera	*	160	200	3	N	N
42	207	Quercus virginiana	16.55	80	50	5	N	N
43	208	Morus rubra	17.65	110	60	4	N	N

	Plot	Species	Basal Diameter (mm)	Overall Height (cm)	Overall Spread (cm)	Plant Vigor	Dise ase	Pest
	#							
44	209	<i>Celtis laevigata</i>	16.86	90	40	4	N	N
45	210	<i>Morus rubra</i>	25.12	180	100	2	N	N
46	211	<i>Acacia farnesiana</i>	*	280	340	5	N	N
47	212	<i>Morella cerifera</i>	*	260	200	3	N	N
48	213	<i>Morus rubra</i>	10.28	110	70	4	N	N
49	214	<i>Acacia farnesiana</i>	*	160	270	5	N	N
50	215	<i>Quercus virginiana</i>	14.37	80	30	5	N	N
51	216	<i>Quercus virginiana</i>	16.29	80	40	5	N	N
52	217	<i>Morella cerifera</i>	*	210	150	4	N	N
53	218	<i>Quercus virginiana</i>	20.35	90	50	4	N	N
54	219	<i>Morus rubra</i>	13.93	70	30	6	N	N
55	220	<i>Morus rubra</i>	17.04	100	60	4	N	N
56	221	<i>Quercus virginiana</i>	27.31	120	120	3	N	N
57	222	<i>Celtis laevigata</i>	10.91	70	60	5	N	N
58	223	<i>Acacia farnesiana</i>	*	200	470	2	N	N
59	224	<i>Morella cerifera</i>	*	170	100	4	N	N
60	225	<i>Celtis laevigata</i>	16.33	70	60	4	N	N
61	226	<i>Quercus virginiana</i>	24.17	110	190	3	N	N
62	227	<i>Zanthoxylum clava-herculis</i>	9.59	50	20	6	N	N
63	228	<i>Gleditsia triacanthos</i>	-	-	-	9		
64	229	<i>Callicarpa americana</i>	7.62	50	50	5	N	N
65	230	<i>Diospyros virginiana</i>	14.08	80	60	5	N	N
66	231	<i>Lantana camera</i>	-			9		
67	232	<i>Callicarpa americana</i>	12.62	70	40	4	N	N
68	233	<i>Callicarpa americana</i>	9.24	40	50	4	N	N
69	234	<i>Gleditsia triathlons</i>	-	-	-	9		
70	235	<i>Diospyros virginiana</i>	15.61	90	30	5	N	N
71	301	<i>Zanthoxylum clava-herculis</i>	19.67	100	50	4	N	N
72	302	<i>Morus rubra</i>	16.03	110	30	5	N	N
73	303	<i>Celtis laevigata</i>	4.21	60	30	4	N	N
74	304	<i>Celtis laevigata</i>	14.22	90	30	5	N	N
75	305	<i>Quercus virginiana</i>	13.20	90	20	5	N	N
76	306	<i>Acacia farnesiana</i>	*	260	600	2	N	N
77	307	<i>Morella cerifera</i>	*	350	180	2	N	N
78	308	<i>Morella cerifera</i>	*	190	190	1	N	N
79	309	<i>Morella cerifera</i>	*	160	100	4	N	N
80	310	<i>Celtis laevigata</i>	13.69	70	40	6	N	N
81	311	<i>Acacia farnesiana</i>	*	200	350	5	N	N
82	312	<i>Morus rubra</i>	13.92	120	20	5	N	N
83	313	<i>Morus rubra</i>	13.97	90	70	4	N	N
84	314	<i>Quercus virginiana</i>	18.83	130	90	3	N	N
85	315	<i>Acacia farnesiana</i>	*	130	340	6	N	N
86	316	<i>Morus rubra</i>	15.50	70	70	4	N	N
87	317	<i>Celtis laevigata</i>	12.24	60	40	5	N	N
88	318	<i>Quercus virginiana</i>	21.69	80	80	3	N	N
89	319	<i>Morella cerifera</i>	*	160	150	2	N	N
90	320	<i>Morella cerifera</i>	*	140	180	3	N	N
91	321	<i>Celtis laevigata</i>	13.44	50	30	4	N	N
92	322	<i>Morella cerifera</i>	*	170	200	2	N	N
93	323	<i>Quercus virginiana</i>	29.55	120	100	2	N	N



	Plot	Species	Basal Diameter (mm)	Overall Height (cm)	Overall Spread (cm)	Plant Vigor	Dise ase	Pest
	#							
94	324	Morella cerifera	*	170	170	2	N	N
95	325	Quercus virginiana	28.35	100	130	3	N	N
96	326	Morella cerifera	*	190	220	2	N	N
97	327	Parkinsonia aculeata	14.72	130	110	7	N	N
98	328	Diospyros virginiana	13.47	40	20	4	N	N
99	329	Lantana camera	13.05	30	30	7	N	N
100	330	Parkinsonia aculeata	15.00	70	70	8	N	N
101	331	Parkinsonia aculeata	14.14	100	50	7	N	N
102	332	Gleditsia triacanthos	19.35	40	60	7	N	N
103	333	Lantana camera	-	-	-	9		
104	334	Diospyros virginiana	15.10	80	30	3	N	N
105	335	Parkinsonia aculeata	13.84	60	60	7	N	N