THIRD ANNUAL MONITORING REPORT – 2007 GROWING SEASON

Little Contentnea Creek Riparian Buffer Restoration – Phase 3
(EEP Contract: 005020)

November 2007

Submitted to:

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INTRODUCTION AND BACKGROUND

On 27 June 2005 the NC Ecosystem Enhancement Program awarded Greene Environmental Services a contract to restore 54.16 acres of riparian buffer along Little Contentnea Creek and its unnamed tributaries in southeastern Greene County, NC (Figure 1) (Phase 3). The project was a continuation of the successful Phase 1 and Phase 2 projects that restored a total of 87.1 acres of riparian buffers along unnamed tributaries to Little Contentnea Creek and Contentnea Creek. The Little Contentnea Creek Riparian Buffer Restoration Plan Phase 3 was implemented in 2005 with site preparation, the planting of 28,000 saplings of 11 species, and the establishment of 60 monitoring quadrats in 17 sampling units, as specified in the project's Mitigation Plan (GES, 2005) (Figure 2).

Woody stem density, diameter, and height measurements were recorded in October 2007 within each of the 60 100-square meter quadrats, as detailed in the Mitigation Plan. The monitoring results, management activities to date, and planned management activities are presented below.

RESULTS

During the October 2007 monitoring, 600 planted woody stems were recorded within the 60 quadrats, resulting in an average density of 405 planted woody stems per acre (Figure 2, Table 1). Additionally, a total of 4,462 native *volunteers* were recorded (3,572 *Acer rubrum* and 791 *Liquidambar styraciflua*) within the monitoring quadrats. All recorded stems combined (i.e. planted + *volunteer*) results in 5,062 total live stems observed (average density of 3,414 woody stems per acre). Average densities for planted woody stems and all live woody stems both indicate that the project has exceeded the success criterion of 320 live woody stems per acre by 27 percent and 967 percent, respectively.

Monitoring data for planted stems indicate that *Fraxinus pennsylvanica* is the most abundant tree species (39.5 percent relative density). *Platanus occidentalis* had the highest relative diameter (17.6 percent relative to all planted species). The average of relative diameter and relative density was calculated for planted species and is presented here as the importance value. Based on this calculation, in 2007 *F. pennsylvanica* replaced *P. occidentalis* as the most important planted species in the project area with a value of 23.2 (Table 1). *P. occidentalis* was the species with the greatest average height (2.36 meters) and the second-highest importance value (17.7). Other important species included *Quercus phellos* (9.1) and *Taxodium distichum* (8.3). Considered collectively, the oaks were first in importance (39.6).

MAINTENANCE (COMPLETED AND PLANNED) AND QUALITATIVE OBSERVATIONS

As reported in the First Annual Monitoring Report (GES, 2005), herbicide application performed early in 2005 to control weedy vegetation resulted in significant mortality among planted stems. As observed in 2005, areas that had a moderately dense canopy of early sucessional vegetation (e.g. *Conyza canadensis* and *Eupatorium capillifolium*, 60-80 percent foliar cover) experienced a lower planted woody stem mortality. The herbaceous annual, biennial and short-lived perennial *pioneer* species appear to be maintaining soil moisture, which increases available water uptake by the planted individuals and reduces their evapotranspiration. Because planted species success quantitatively and qualitatively appears to be higher in areas with a moderately dense early sucessional herbaceous overstory, these areas were not sprayed or cut in 2006 or 2007.

Qualitative evaluation in late spring/early summer will identify locations with invasive, exotic woody species, including vines. Manual removal/control of the identified populations will involve machete

and/or gasoline powered string trimmers, and, if necessary, very limited glycophosphate herbicide (Roundup) application, using hand pump or backpack sprayers with nose cone-tipped nozzles. *L. styraciflua* and *A. rubrum*, which are by far the dominant *volunteer* woody stems counted or observed, are both native to southeastern Greene County and will not be removed. No other native woody stems that have colonized the restoration site will be removed, unless it's a necessary and unavoidable part of exotic invasive woody stem removal/management.

During December 2006-January 2007, approximately 6,000 native bare root seedlings were planted including *Fraxinus pennsylvanica, Liriodendron tulipifera*, and *Nyssa bicolor*. This, along with several resprouted trees, resulted in an increase in total planted stems from 517 to 600 (16% increase) and led to an increase in average planted stems per acre from 349 to 405.

Although the majority of the planted woody stem high mortality *problem* areas indicated in the 2006 monitoring report were remedied due to the winter 2006-2007 re-plantings, high mortality of re-planted stems was observed in four of those areas (Figure 2). Most of the problem areas are on ridges and mortality of the re-planted stems is most likely due to the severe, on going drought in the area. In early 2008, remedial plantings will occur in the identified problem areas.

Soil fertility/chemistry may also need to be addressed in the problem areas. Representative soil samples will be taken from the identified areas and sent to the NCSU soil laboratory for evaluation. Based on the results, nutrient/organic material application and/or planted species selection will be modified.

Table 1A. Importance Values for Planted Individuals - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC

Species	Total Living	Total Dead	Average Height (cm)	Average Diameter (cm)	Relative Diameter (%)	Relative Density (%)	Importance Value
Fraxinus pennsylvanica	237	30	43	0.74	6.94	39.50	23.22
Liriodendron tulipifera	53	76	47	0.68	6.35	8.83	7.59
Nyssa bicolor	20	11	43	0.47	4.44	3.33	3.89
Platanus occidentalis	107	1	236	1.88	17.57	17.83	17.70
Quercus falcata	1	0	46	0.68	6.37	0.17	3.27
Quercus lyrata	11	0	55	0.70	6.57	1.83	4.20
Quercus nigra	40	5	60	0.71	6.66	6.67	6.66
Quercus pagoda	9	0	62	0.75	7.05	1.50	4.28
Quercus phellos	75	8	52	0.62	5.84	12.50	9.17
Quercus rubra	1	0	48	0.59	5.52	0.17	2.85
Quercus virginiana	8	0	79	0.56	5.20	1.33	3.26
Quercus spp.	1	14	36	1.19	11.14	0.17	5.65
Taxodium distichum	37	5	122	1.11	10.35	6.17	8.26
Total Planted	**600**	**150**					
Total Volunteers	**4462**						
Total Stems	**5062**						
Average Planted Stems/Acre	**405**						
Average Stems/Acre	**3414**						

Table 1B. Volunteer Woody Stems Summary - Little Contentnea Creek - Phase 3

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Species	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5	2.5	5	10	15	20	25	30	35	40	Total by Species
Acer rubrum	3510	60	1	1	0	0	0	0	0	0	0	0	0	0	3572
Baccharis halimifolia	9	6	20	3	0	0	0	0	0	0	0	0	0	0	38
Crataegus spp.	6	2	0	0	0	0	0	0	0	0	0	0	0	0	8
Ilex opaca	2	0	2	0	0	0	0	0	0	0	0	0	0	0	4
Ligustrum sinensis	0	2	0	0	0	0	0	0	0	0	0	0	0	0	2
Liquidambar styraciflua	598	113	35	16	25	0	2	2	0	0	0	0	0	0	791
Nyssa biflora	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Pinus taeda	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
Platanus occidentalis	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
Quercus micheauxii	11	5	0	0	0	0	0	0	0	0	0	0	0	0	16
Rhus copallinum	15	0	0	0	0	0	0	0	0	0	0	0	0	0	15
Salix sp.	0	1	0	0	1	0	0	0	0	0	0	0	0	0	2
Ulmus americana	10	0	0	0	0	0	0	0	0	0	0	0	0	0	10
Total by Size Class	4162	190	59	21	26	0	2	2	0	0	0	0	0	0	
Total Volunteers	**4462**														

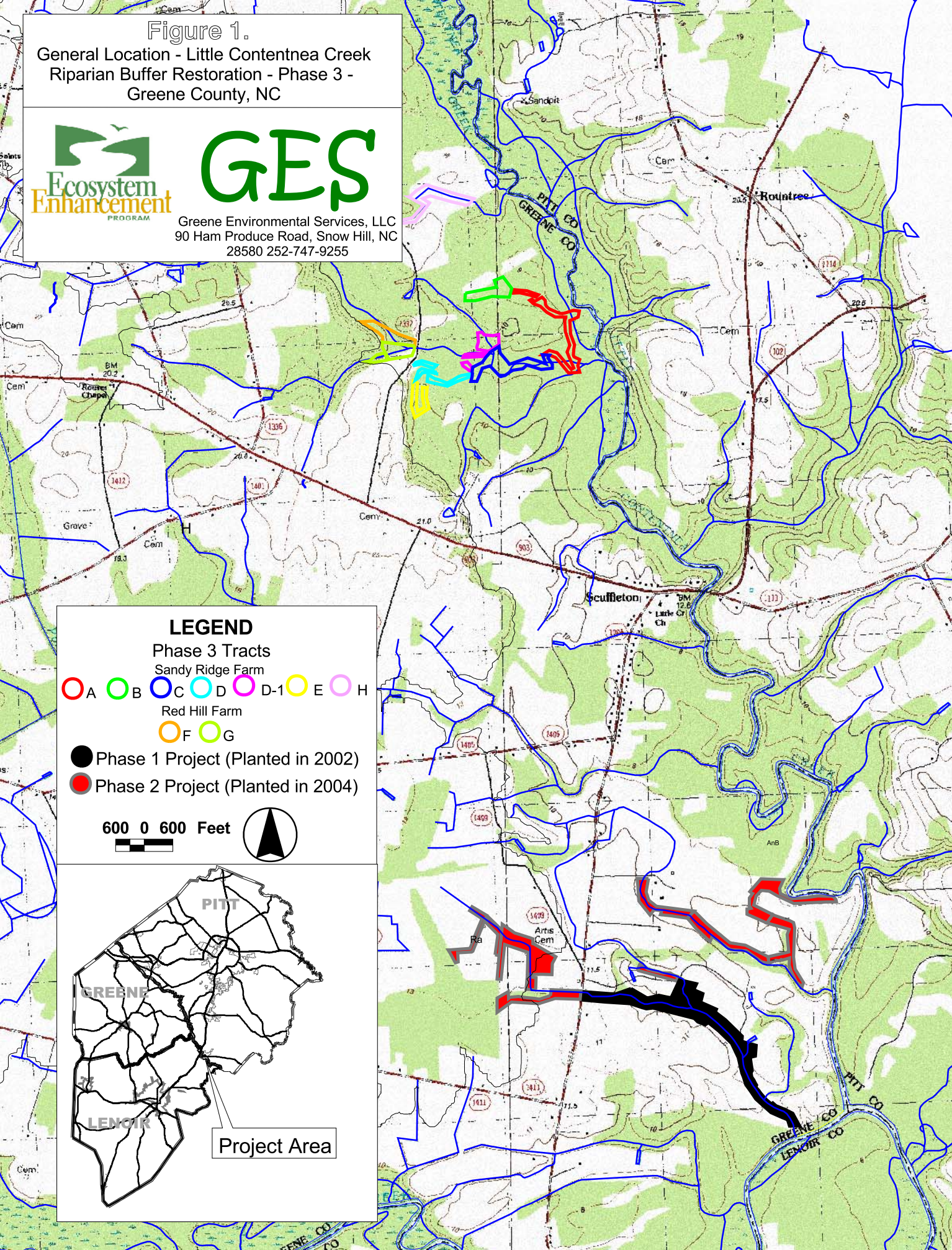
Figure 1.

General Location - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC

Ecosystem Enhancement Program

GES

Greene Environmental Services, LLC
90 Ham Produce Road, Snow Hill, NC
28580 252-747-9255



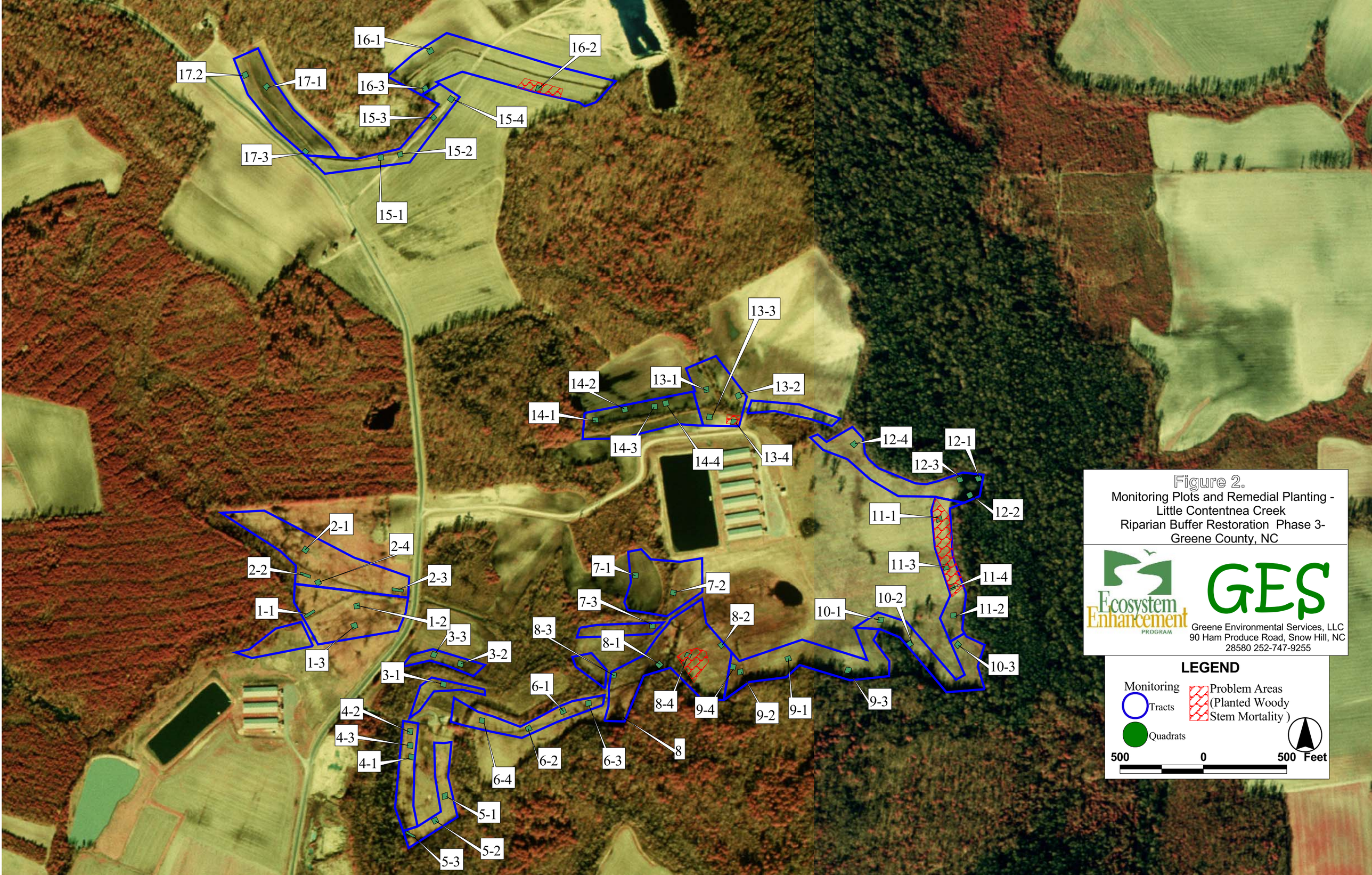


Figure 2.
Monitoring Plots and Remedial Planting -
Little Contentnea Creek
Riparian Buffer Restoration Phase 3-
Greene County, NC

Ecosystem Enhancement Program

GES
Greene Environmental Services, LLC
90 Ham Produce Road, Snow Hill, NC
28580 252-747-9255

LEGEND

Monitoring
Tracts
Quadrats

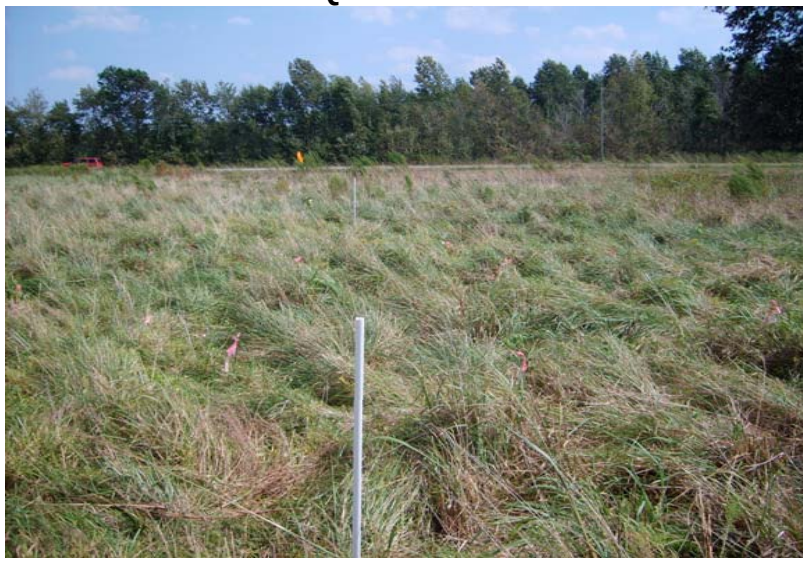
Problem Areas
(Planted Woody
Stem Mortality)

500 0 500 Feet

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 1-1

Quadrat 1-2



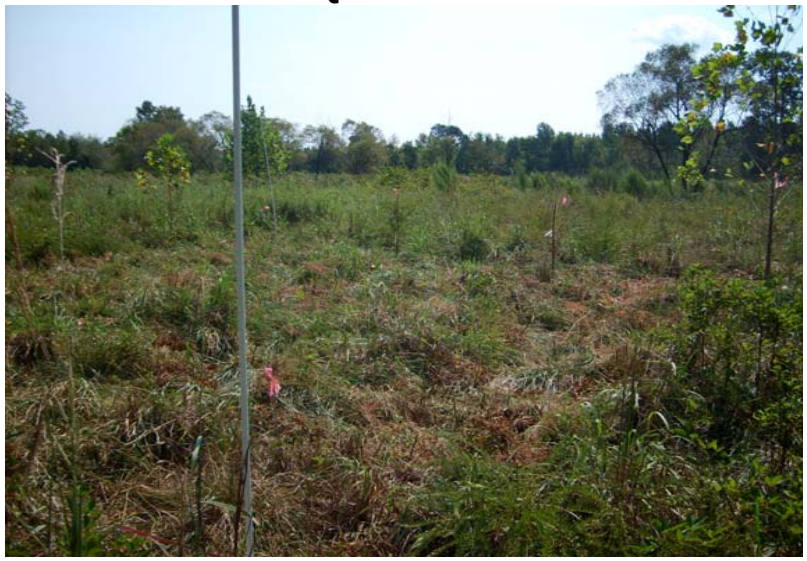
Quadrat 1-3

Quadrat 2-1

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 2-2

Quadrat 2-3



Quadrat 2-4

Quadrat 3-1

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 3-2

Quadrat 3-3

Quadrat 4-1

Quadrat 4-2

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 4-3

Quadrat 5-1

Quadrat 5-2

Quadrat 5-3

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 6-1

Quadrat 6-2

Quadrat 6-3

Quadrat 6-4

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 7-1

Quadrat 7-2

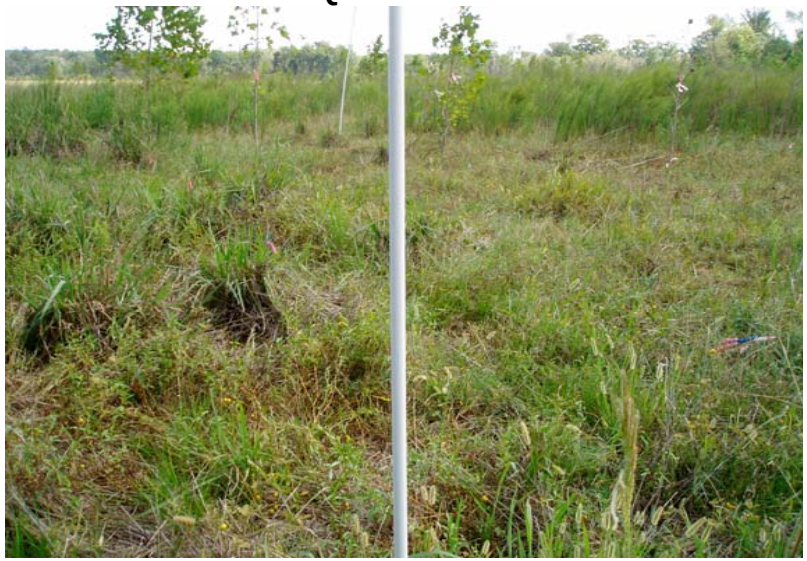
Quadrat 7-3

Quadrat 8-1

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 8-2

Quadrat 8-3



Quadrat 8-4

Quadrat 9-1

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 9-2

Quadrat 9-3

Quadrat 9-4

Quadrat 10-1

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 10-2

Quadrat10-3

Quadrat 11-1

Quadrat 11-2

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 11-3

Quadrat 11-4

Quadrat 12-1

Quadrat 12-2

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 12-3

Quadrat 12-4

Quadrat 13-1

Quadrat 13-2

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 13-3

Quadrat 13-4

Quadrat 14-1

Quadrat 14-2

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 14-3

Quadrat 14-4

Quadrat 15-1

Quadrat 15-2

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 15-3

Quadrat 15-4

Quadrat 16-1

Quadrat 16-2

Permanent Quadrat Photographs - 2007 - Little Contentnea Creek Riparian Buffer Restoration - Phase 3

Quadrat 16-3

Quadrat 17-1

Quadrat 17-2

Quadrat 17-3

Table 2. Plot 1-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.71	60.50	2.00	0.00	0.64	57	0.78	64								
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora	1.30	119.00	1.00	0.00	1.3	119										
Platanus occidentalis	0.56	46.25	4.00	0.00	0.59	60	0.57	39	0.66	48	0.4	38				
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	0.97	87.50	2.00	0.00	1.49	103	0.45	72								
Quercus pagoda			0.00	0.00												
Quercus phellos	0.91	36.00	1.00	0.00	0.91	36										
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum	2.75	198.50	2.00	1.00	2.9	244	2.6	153	d	d						
Total planted stems per plot			**12.00**	**1.00**												
Total planted stems per acre			**485.64**													

Table 2. Plot 1-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Alnus serrulata														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Lindera benzoin														
Liquidambar styraciflua														
Myrica cerifera														
Pinus spp.														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0													

Table 3. Plot 1-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.84	48.43	7.00	1.00	1.1	65	0.8	33	0.9	41	0.8	47	0.6	36	d	d	0.7	55	1	62
Liriodendron tulipifera			0.00	1.00	d	d														
Nyssa biflora			0.00	0.00																
Platanus occidentalis			0.00	0.00																
Quercus falcata			0.00	0.00																
Quercus lyrata			0.00	0.00																
Quercus nigra	0.83	67.33	3.00	0.00	0.5	39	1.2	77	0.8	86										
Quercus pagoda			0.00	0.00																
Quercus phellos	1.10	62.00	1.00	0.00	1.1	62														
Quercus rubra			0.00	0.00																
Quercus virginiana			0.00	0.00																
Quercus spp.			0.00	0.00																
Taxodium distichum	2.70	120.00	2.00	0.00	3	105	2.4	135												
Total planted stems per plot			**13.00**	**2.00**																
Total planted stems per acre			**526.11**																	

Table 3. Plot 1-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0	no volunteers												

Table 4. Plot 1-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	1.07	65.00	3.00	0.00	0.9	64	1.2	71	1.1	60						
Liriodendron tulipifera	0.55	42.00	2.00	0.00	0.6	50	0.5	34								
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	0.78	69.88	4.00	0.00	0.8	62	0.7	67.5	0.7	77	0.9	73				
Quercus pagoda			0.00	0.00												
Quercus phellos	1.10	69.50	2.00	0.00	0.7	84	1.5	55								
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**11.00**	**0.00**												
Total planted stems per acre			**445.17**													

Table 4. Plot 1-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0	no volunteers												

Table 5. Plot 2-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.62	47.20	5.00	0.00	0.6	49	0.97	57	0.37	44	0.7	47	0.44	39		
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos	0.73	58.00	1.00	0.00	0.73	58										
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.	1.19	36.00	1.00	1.00	1.19	36	d	d								
Taxodium distichum	0.70	163.00	1.00	2.00	d	d	0.7	163	d	d						
Total planted stems per plot			**8.00**	**3.00**												
Total planted stems per acre			**323.76**													

Table 5. Plot 2-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0	no volunteers												

Table 6. Plot 2-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.76	56.40	5.00	1.00	0.5	33	0.9	60	d	d	0.7	74	1.1	57	0.6	58
Liriodendron tulipifera			0.00	1.00	d	d										
Nyssa biflora			0.00	0.00												
Platanus occidentalis	2.57	296.67	3.00	0.00	0.9	50	2.9	380	3.9	460						
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum	0.90	81.00	1.00	0.00	0.9	81										
Total planted stems per plot			**9.00**	**2.00**												
Total planted stems per acre			**364.23**													

Table 6. Plot 2-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	9	10	4	3	7		1							
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	34													

Table 7. Plot 2-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.74	53.88	8.00	0.00	0.85	56	0.66	54	1.12	57	0.61	58	0.65	54	0.78	60	0.59	52	0.67	40
Liriodendron tulipifera	0.59	52.00	1.00	0.00	0.59	52														
Nyssa biflora			0.00	0.00																
Platanus occidentalis			0.00	0.00																
Quercus falcata			0.00	0.00																
Quercus lyrata			0.00	0.00																
Quercus nigra	0.82	60.00	4.00	0.00	0.39	34	0.41	28	1.19	73	1.3	105								
Quercus pagoda			0.00	0.00																
Quercus phellos	0.97	75.00	2.00	1.00	1.26	96	0.68	54	d	d										
Quercus rubra			0.00	0.00																
Quercus virginiana			0.00	0.00																
Quercus spp.			0.00	0.00																
Taxodium distichum			0.00	0.00																
Total planted stems per plot			**15.00**	**1.00**																
Total planted stems per acre			**607.05**																	

Table 7. Plot 2-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua		1												
Nyssa biflora				1										
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	2													

Table 8. Plot 2-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica			0.00	1.00	d	d										
Liriodendron tulipifera	1.10	46.00	1.00	0.00	1.1	46										
Nyssa biflora	0.60	59.00	1.00	0.00	0.6	59										
Platanus occidentalis	4.40	450.00	1.00	0.00	4.4	450										
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	0.20	140.00	1.00	0.00	0.2	140										
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum	0.90	127.60	5.00	0.00	1	85	1	58	0.3	141	0.9	178	1.3	176		
Total planted stems per plot			**9.00**	**1.00**												
Total planted stems per acre			**364.23**													

Table 8. Plot 2-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0													

Table 9. Plot 3-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica			0.00	0.00												
Liriodendron tulipifera	0.55	47.00	2.00	0.00	0.6	52	0.5	42								
Nyssa biflora			0.00	0.00												
Platanus occidentalis	3.00	404.50	4.00	0.00	0.7	278	3.2	430	4.2	470	3.9	440				
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum	0.90	142.25	4.00	0.00	1.6	245	0.5	77	0.9	185	0.6	62				
Total planted stems per plot			**10.00**	**0.00**												
Total planted stems per acre			**404.7**													

Table 9. Plot 3-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	100	6	1	1										
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	3				1	1								
Nyssa biflora														
Pinus taeda														
Platanus occidentalis		1												
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.					1									
Ulmus americana														
Total volunteer stems per plot	115	no volunteers												

Table 10. Plot 3-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.62	51.11	9.00	0.00	0.72	39	0.4	47	0.67	50	0.71	58	0.31	42	0.69	66	0.71	64	0.42	38	0.94	56
Liriodendron tulipifera			0.00	0.00																		
Nyssa biflora			0.00	0.00																		
Platanus occidentalis	0.53	44.00	1.00	0.00	0.53	44																
Quercus falcata			0.00	0.00																		
Quercus lyrata			0.00	0.00																		
Quercus nigra	0.84	69.00	2.00	0.00	0.66	52	1.02	86														
Quercus pagoda			0.00	0.00																		
Quercus phellos			0.00	0.00																		
Quercus rubra			0.00	0.00																		
Quercus virginiana			0.00	0.00																		
Quercus spp.			0.00	0.00																		
Taxodium distichum	0.95	140.00	2.00	0.00	1.59	111	0.3	169														
Total planted stems per plot			**14.00**	**0.00**																		
Total planted stems per acre			**566.58**																			

Table 10. Plot 3-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	1000	2												
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	1													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	1003													

Table 11. Plot 3-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.83	60.00	10.00	0.00	0.99	82	0.62	43	0.68	65	0.72	58	0.87	64	0.68	31	0.93	55	0.87	81	1.02	65	0.9	56
Liriodendron tulipifera			0.00	0.00																				
Nyssa biflora	0.50	41.00	1.00	0.00	0.5	41																		
Platanus occidentalis	0.85	61.50	2.00	0.00	0.85	85	0.85	38																
Quercus falcata			0.00	0.00																				
Quercus lyrata			0.00	0.00																				
Quercus nigra	0.55	35.00	1.00	0.00	0.55	35																		
Quercus pagoda			0.00	0.00																				
Quercus phellos			0.00	0.00																				
Quercus rubra			0.00	0.00																				
Quercus virginiana			0.00	0.00																				
Quercus spp.			0.00	0.00																				
Taxodium distichum	0.50	141.75	4.00	1.00	0.3	164	d	d	0.1	138	1.39	125	0.2	140										
Total planted stems per plot			**18.00**	**1.00**																				
Total planted stems per acre			**728.46**																					

Table 11. Plot 3-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	500													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	20	5												
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	525													

Table 12. Plot 4-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.83	39.33	3.00	0.00	0.63	25	0.84	53	1.03	40						
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora			0.00	1.00	d	d										
Platanus occidentalis	1.23	223.75	4.00	0.00	0.5	156	0.5	159	1.6	250	2.3	330				
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos	0.40	25.00	1.00	0.00	0.4	25										
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum	1.16	107.83	6.00	0.00	1.87	112	0.8	88	1.65	135	0.5	147	1.1	100	1.06	65
Total planted stems per plot			**14.00**	**1.00**												
Total planted stems per acre			**566.58**													

Table 12. Plot 4-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	25													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	50	2	1	6	8	1	1							
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	94													

Table 13. Plot 4-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.66	27.50	2.00	2.00	d	d	1.2	23	d	d	0.11	32				
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora			0.00	2.00	d	d	d	d								
Platanus occidentalis	1.68	257.00	5.00	0.00	2.3	320	1.7	235	1.3	215	1.7	260	1.4	255		
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**7.00**	**4.00**												
Total planted stems per acre			**283.29**													

Table 13. Plot 4-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	215													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	7													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	222													

Table 14. Plot 4-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.23	18.00	1.00	0.00	0.23	18														
Liriodendron tulipifera			0.00	0.00																
Nyssa biflora			0.00	2.00	d	d	d	d												
Platanus occidentalis	0.76	165.88	8.00	0.00	0.4	148	1.5	260	0.64	162	0.5	148	1.5	235	0.5	145	0.7	185	0.35	44
Quercus falcata			0.00	0.00																
Quercus lyrata			0.00	0.00																
Quercus nigra			0.00	0.00																
Quercus pagoda			0.00	0.00																
Quercus phellos			0.00	0.00																
Quercus rubra			0.00	0.00																
Quercus virginiana			0.00	0.00																
Quercus spp.			0.00	0.00																
Taxodium distichum	0.84	66.00	1.00	0.00	0.84	66														
Total planted stems per plot			**10.00**	**2.00**																
Total planted stems per acre			**404.7**																	

Table 14. Plot 4-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	1													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	1													

Table 15. Plot 5-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.53	24.25	4.00	0.00	0.59	28	0.75	34	0.5	20	0.28	15				
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora	0.38	34.67	3.00	1.00	0.18	13	d	d	0.3	28	0.66	63				
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	0.97	42.50	2.00	0.00	1.18	22	0.76	63								
Quercus pagoda			0.00	0.00												
Quercus phellos	0.56	92.33	3.00	0.00	0.59	63	0.89	60	0.2	154						
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**12.00**	**1.00**												
Total planted stems per acre			**485.64**													

Table 15. Plot 5-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	100													
Baccharis halimifolia	1													
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	100	7	1	3	4									
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	216													

Table 16. Plot 5-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.69	42.00	7.00	0.00	0.7	42	0.62	55	0.61	26	0.54	24	0.98	67	0.76	55	0.61	25		
Liriodendron tulipifera			0.00	0.00																
Nyssa biflora			0.00	0.00																
Platanus occidentalis	1.57	267.00	3.00	0.00	1.2	232	0.7	174	2.8	395										
Quercus falcata			0.00	0.00																
Quercus lyrata			0.00	0.00																
Quercus nigra	0.63	49.00	1.00	0.00	0.63	49														
Quercus pagoda			0.00	0.00																
Quercus phellos	0.72	26.67	3.00	0.00	1.17	29	0.61	34	0.39	17										
Quercus rubra			0.00	0.00																
Quercus virginiana			0.00	0.00																
Quercus spp.			0.00	0.00																
Taxodium distichum			0.00	0.00																
Total planted stems per plot			**14.00**	**0.00**																
Total planted stems per acre			**566.58**																	

Table 16. Plot 5-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	20													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	35	2		1	4									
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum	1													
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	63													

Table 17. Plot 5-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.71	38.60	5.00	0.00	0.92	50	0.72	44	0.74	51	0.34	25	0.85	23		
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora	0.19	25.00	1.00	2.00	d	d	d	d	0.19	25						
Platanus occidentalis	1.30	91.50	4.00	0.00	1.15	84	1.1	105	1.05	50	1.89	127				
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos	0.58	47.00	2.00	0.00	0.54	44	0.61	50								
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**12.00**	**2.00**												
Total planted stems per acre			**485.64**													

Table 17. Plot 5-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	100													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	3	4		1										
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	108													

Table 18. Plot 6-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.42	20.00	1.00	0.00	0.42	20										
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora	0.24	23.00	4.00	0.00	0.2	20	0.24	25	0.28	21	0.22	26				
Platanus occidentalis	1.03	196.67	3.00	0.00	0.8	184	1.4	225	0.9	181						
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	0.67	57.00	2.00	0.00	0.78	68	0.55	46								
Quercus pagoda			0.00	0.00												
Quercus phellos	0.31	30.33	3.00	0.00	0.44	38	0.21	19	0.29	34						
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum	0.54	77.00	1.00	0.00	0.54	77										
Total planted stems per plot			**14.00**	**0.00**												
Total planted stems per acre			**566.58**													

Table 18. Plot 6-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	200													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	1													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum	10													
Salix sp.														
Ulmus americana	10													
Total volunteer stems per plot	221													

Table 19. Plot 6-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.79	62.14	7.00	0.00	0.85	60	0.99	69	0.51	40	0.79	59	0.73	57	0.83	82	0.84	68
Liriodendron tulipifera			0.00	0.00														
Nyssa biflora	0.76	60.00	1.00	0.00	0.76	60												
Platanus occidentalis	1.97	320.00	3.00	0.00	2	320	1.9	325	2	315								
Quercus falcata			0.00	0.00														
Quercus lyrata			0.00	0.00														
Quercus nigra	0.94	56.00	1.00	0.00	0.94	56												
Quercus pagoda			0.00	0.00														
Quercus phellos			0.00	0.00														
Quercus rubra			0.00	0.00														
Quercus virginiana			0.00	0.00														
Quercus spp.			0.00	0.00														
Taxodium distichum	1.37	100.50	2.00	1.00	1.89	116	0.84	85	d	d								
Total planted stems per plot			**14.00**	**1.00**														
Total planted stems per acre			**566.58**															

Table 19. Plot 6-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	100													
Baccharis halimifolia		1												
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis		1												
Liquidambar styraciflua		3												
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	105													

Table 20. Plot 6-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.74	49.20	5.00	0.00	0.44	56	0.94	63	0.82	53	0.69	49	0.79	25		
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora	0.51	48.00	2.00	0.00	0.46	42	0.55	54								
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	0.60	43.00	1.00	0.00	0.6	43										
Quercus pagoda			0.00	0.00												
Quercus phellos	0.91	69.00	1.00	1.00	d	d	0.91	69								
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum	1.17	95.67	3.00	0.00	0.73	68	1.29	102	1.5	117						
Total planted stems per plot			**12.00**	**1.00**												
Total planted stems per acre			**485.64**													

Table 20. Plot 6-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	200													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	20													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	220													

Table 21. Plot 6-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.83	53.50	4.00	0.00	0.86	57	0.99	58	0.76	53	0.71	46				
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora	0.35	42.50	2.00	0.00	0.16	22	0.53	63								
Platanus occidentalis	1.60	272.50	2.00	0.00	1.7	270	1.5	275								
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	0.42	50.50	2.00	0.00	0.4	42	0.44	59								
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum	0.45	100.00	2.00	0.00	0.5	52	0.4	148								
Total planted stems per plot			**12.00**	**0.00**												
Total planted stems per acre			**485.64**													

Table 21. Plot 6-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	100	1												
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	100	10	2	1										
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	214													

Table 22. Plot 7-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.49	22.33	6.00	2.00	0.35	23	d	d	d	d	0.74	22	0.86	26	0.16	12	0.34	22	0.5	29
Liriodendron tulipifera	0.40	11.00	1.00	2.00	0.4	11	d	d	d	d										
Nyssa biflora			0.00	0.00																
Platanus occidentalis			0.00	0.00																
Quercus falcata			0.00	0.00																
Quercus lyrata			0.00	0.00																
Quercus nigra			0.00	0.00																
Quercus pagoda			0.00	0.00																
Quercus phellos			0.00	0.00																
Quercus rubra			0.00	0.00																
Quercus virginiana			0.00	0.00																
Quercus spp.			0.00	0.00																
Taxodium distichum			0.00	0.00																
Total planted stems per plot			**7.00**	**4.00**																
Total planted stems per acre			**283.29**																	

Table 22. Plot 7-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	10													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	10	12												
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.		1												
Ulmus americana														
Total volunteer stems per plot	33													

Table 23. Plot 7-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.79	69.00	1.00	0.00	0.79	69												
Liriodendron tulipifera			0.00	2.00	d	d	d	d										
Nyssa biflora			0.00	0.00														
Platanus occidentalis	3.41	384.29	7.00	0.00	2.9	400	1.3	215	3.4	400	5.3	460	4.3	410	4.5	440	2.2	365
Quercus falcata			0.00	0.00														
Quercus lyrata			0.00	0.00														
Quercus nigra			0.00	0.00														
Quercus pagoda			0.00	0.00														
Quercus phellos			0.00	0.00														
Quercus rubra			0.00	0.00														
Quercus virginiana			0.00	0.00														
Quercus spp.			0.00	0.00														
Taxodium distichum			0.00	0.00														
Total planted stems per plot			**8.00**	**2.00**														
Total planted stems per acre			**323.76**															

Table 23. Plot 7-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	2													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	1													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	3													

Table 24. Plot 7-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.69	31.50	2.00	1.00	0.62	20	d	d	0.76	43								
Liriodendron tulipifera			0.00	0.00														
Nyssa biflora			0.00	0.00														
Platanus occidentalis	2.62	342.33	6.00	1.00	3.8	395	2.9	398	1.1	201	2.9	410	1.7	250	3.3	400	d	d
Quercus falcata			0.00	0.00														
Quercus lyrata			0.00	0.00														
Quercus nigra			0.00	0.00														
Quercus pagoda			0.00	0.00														
Quercus phellos			0.00	0.00														
Quercus rubra			0.00	0.00														
Quercus virginiana			0.00	0.00														
Quercus spp.			0.00	0.00														
Taxodium distichum			0.00	0.00														
Total planted stems per plot			**8.00**	**2.00**														
Total planted stems per acre			**323.76**															

Table 24. Plot 7-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum				1	1									
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	2													

Table 25. Plot 8-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.53	44.00	1.00	0.00	0.53	44																
Liriodendron tulipifera	0.73	49.00	4.00	0.00	0.54	36	1.09	58	0.61	47	0.67	55										
Nyssa biflora			0.00	0.00																		
Platanus occidentalis	2.69	342.25	8.00	0.00	2.4	320	2.4	193	3.2	405	2.9	370	3.3	410	2.7	350	4.4	410	0.22	280		
Quercus falcata			0.00	0.00																		
Quercus lyrata			0.00	0.00																		
Quercus nigra			0.00	0.00																		
Quercus pagoda			0.00	0.00																		
Quercus phellos			0.00	0.00																		
Quercus rubra			0.00	0.00																		
Quercus virginiana			0.00	0.00																		
Quercus spp.			0.00	0.00																		
Taxodium distichum			0.00	0.00																		
Total planted stems per plot			**13.00**	**0.00**																		
Total planted stems per acre			**526.11**																			

Table 25. Plot 8-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum	1													
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	1	1												
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	3													

Table 26. Plot 8-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica			0.00	2.00	d	d	d	d								
Liriodendron tulipifera			0.00	1.00	d	d										
Nyssa biflora			0.00	0.00												
Platanus occidentalis	1.90	230.00	1.00	0.00	1.9	230										
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	0.31	23.00	1.00	0.00	0.31	23										
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**2.00**	**3.00**												
Total planted stems per acre			**80.94**													

Table 26. Plot 8-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0	no volunteers												

Table 27. Plot 8-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.99	49.33	3.00	0.00	1.15	47	0.84	48	0.99	53						
Liriodendron tulipifera	0.63	30.00	2.00	0.00	0.74	45	0.52	15								
Nyssa biflora			0.00	0.00												
Platanus occidentalis	2.80	345.00	2.00	0.00	2.5	290	3.1	400								
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum	0.93	105.00	1.00	0.00	0.93	105										
Total planted stems per plot			**8.00**	**0.00**												
Total planted stems per acre			**323.76**													

Table 27. Plot 8-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	2													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	2													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	4													

Table 28. Plot 8-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.68	51.67	3.00	2.00	d	d	0.59	53	0.79	55	0.65	47	d	d		
Liriodendron tulipifera			0.00	4.00	d	d	d	d	d	d	d	d				
Nyssa biflora			0.00	0.00												
Platanus occidentalis	2.03	274.50	4.00	0.00	2.5	310	1.8	250	1.5	218	2.3	320				
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**7.00**	**6.00**												
Total planted stems per acre			**283.29**													

Table 28. Plot 8-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0													

Table 29. Plot 9-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.53	36.50	2.00	0.00	0.39	26	0.66	47																
Liriodendron tulipifera	0.36	19.00	1.00	4.00	d	d	d	d	d	d	0.36	19	d	d										
Nyssa biflora			0.00	0.00																				
Platanus occidentalis	0.94	220.00	1.00	0.00	0.94	220																		
Quercus falcata			0.00	0.00																				
Quercus lyrata			0.00	0.00																				
Quercus nigra	0.26	26.00	1.00	1.00	d	d	0.26	26																
Quercus pagoda			0.00	0.00																				
Quercus phellos	0.47	40.14	7.00	2.00	0.58	40	0.63	78	0.59	45	0.43	28	d	d	d	d	0.21	20	0.24	15	0.64	55		
Quercus rubra			0.00	0.00																				
Quercus virginiana			0.00	0.00																				
Quercus spp.			0.00	0.00																				
Taxodium distichum			0.00	0.00																				
Total planted stems per plot			**12.00**	**7.00**																				
Total planted stems per acre			**485.64**																					

Table 29. Plot 9-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	1													
Baccharis halimifolia			1											
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	2													

Table 30. Plot 9-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.64	53.50	2.00	0.00	0.5	46	0.77	61								
Liriodendron tulipifera	0.79	44.00	5.00	1.00	d	d	0.74	40	0.75	46	0.84	42	0.81	50	0.8	42
Nyssa biflora			0.00	1.00	d	d										
Platanus occidentalis	4.14	446.00	5.00	0.00	4.7	500	3.7	470	3.9	450	3.9	400	4.5	410		
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**12.00**	**2.00**												
Total planted stems per acre			**485.64**													

Table 30. Plot 9-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	7													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	7													

Table 31. Plot 9-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	1.15	52.00	1.00	1.00	1.15	52	d	d																
Liriodendron tulipifera			0.00	9.00	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d	d
Nyssa biflora			0.00	0.00																				
Platanus occidentalis			0.00	0.00																				
Quercus falcata			0.00	0.00																				
Quercus lyrata			0.00	0.00																				
Quercus nigra	0.75	58.00	1.00	2.00	d	d	d	d	0.75	58														
Quercus pagoda	0.21	14.00	1.00	0.00	0.21	14																		
Quercus phellos	0.41	27.33	3.00	1.00	d	d	0.19	18	0.83	52	0.2	12												
Quercus rubra			0.00	0.00																				
Quercus virginiana			0.00	0.00																				
Quercus spp.			0.00	0.00																				
Taxodium distichum			0.00	0.00																				
Total planted stems per plot			**6.00**	**13.00**																				
Total planted stems per acre			**242.82**																					

Table 31. Plot 9-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	6													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	6													

Table 32. Plot 9-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.86	22.50	2.00	0.00	0.36	15	1.36	30												
Liriodendron tulipifera	0.57	41.50	4.00	3.00	0.66	43	0.37	26	d	d	0.67	51	d	d	0.59	46	d	d		
Nyssa biflora			0.00	0.00																
Platanus occidentalis	3.00	346.67	3.00	0.00	4.4	430	1.5	260	3.1	350										
Quercus falcata			0.00	0.00																
Quercus lyrata			0.00	0.00																
Quercus nigra			0.00	0.00																
Quercus pagoda			0.00	0.00																
Quercus phellos			0.00	0.00																
Quercus rubra			0.00	0.00																
Quercus virginiana			0.00	0.00																
Quercus spp.			0.00	0.00																
Taxodium distichum			0.00	0.00																
Total planted stems per plot			**9.00**	**3.00**																
Total planted stems per acre			**364.23**																	

Table 32. Plot 9-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	5													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	4													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	9													

Table 33. Plot 10-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.82	39.75	8.00	0.00	1.22	36	0.8	48	0.71	33	0.92	60	0.62	47	0.6	13	0.6	56	1.07	25
Liriodendron tulipifera			0.00	1.00	d	d														
Nyssa biflora			0.00	0.00																
Platanus occidentalis			0.00	0.00																
Quercus falcata			0.00	0.00																
Quercus lyrata			0.00	0.00																
Quercus nigra			0.00	0.00																
Quercus pagoda	1.56	106.00	2.00	0.00	1.7	102	1.42	110												
Quercus phellos	0.32	38.00	1.00	0.00	0.32	38														
Quercus rubra			0.00	0.00																
Quercus virginiana			0.00	0.00																
Quercus spp.			0.00	0.00																
Taxodium distichum			0.00	0.00																
Total planted stems per plot			**11.00**	**1.00**																
Total planted stems per acre			**445.17**																	

Table 33. Plot 10-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0													

Table 34. Plot 10-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.63	40.89	9.00	1.00	0.59	66	0.75	48	0.54	30	0.42	18	0.54	36	0.76	18	0.47	35	0.67	58	0.97	59	d	d
Liriodendron tulipifera			0.00	3.00	d	d	d	d	d	d														
Nyssa biflora			0.00	0.00																				
Platanus occidentalis			0.00	0.00																				
Quercus falcata			0.00	0.00																				
Quercus lyrata			0.00	0.00																				
Quercus nigra			0.00	0.00																				
Quercus pagoda			0.00	0.00																				
Quercus phellos	0.18	18.00	1.00	0.00	0.18	18																		
Quercus rubra			0.00	0.00																				
Quercus virginiana			0.00	0.00																				
Quercus spp.			0.00	0.00																				
Taxodium distichum			0.00	0.00																				
Total planted stems per plot			**10.00**	**4.00**																				
Total planted stems per acre			**404.7**																					

Table 34. Plot 10-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	3													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii	11	5												
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	19													

Table 35. Plot 10-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.96	56.57	7.00	0.00	1.03	63	0.65	43	0.93	55	0.92	52	1.34	74	0.56	50	1.32	59		
Liriodendron tulipifera	0.54	59.00	1.00	0.00	0.54	59														
Nyssa biflora			0.00	0.00																
Platanus occidentalis			0.00	0.00																
Quercus falcata			0.00	0.00																
Quercus lyrata			0.00	0.00																
Quercus nigra			0.00	0.00																
Quercus pagoda	0.78	63.00	2.00	0.00	0.5	42	1.05	84												
Quercus phellos			0.00	0.00																
Quercus rubra			0.00	0.00																
Quercus virginiana			0.00	0.00																
Quercus spp.			0.00	0.00																
Taxodium distichum			0.00	0.00																
Total planted stems per plot			**10.00**	**0.00**																
Total planted stems per acre			**404.7**																	

Table 35. Plot 10-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	2													
Baccharis halimifolia	1													
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	1													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	4													

Table 36. Plot 11-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica			0.00	0.00												
Liriodendron tulipifera			0.00	12.00	d	d	d	d	d	d	d	d	d	d	d	d
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**0.00**	**12.00**												
Total planted stems per acre			**0**													

Table 36. Plot 11-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0	no volunteers												

Table 36. Plot 11-1 2007 Monito

Species	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica												
Liriodendron tulipifera	d	d	d	d	d	d	d	d	d	d	d	d
Nyssa biflora												
Platanus occidentalis												
Quercus falcata												
Quercus lyrata												
Quercus nigra												
Quercus pagoda												
Quercus phellos												
Quercus rubra												
Quercus virginiana												
Quercus spp.												
Taxodium distichum												
Total planted stems per plot												
Total planted stems per acre												

Table 36. Plot 11-1 2007 Monito

Volunteer woody stems
Acer rubrum
Baccharis halimifolia
Cornus amomum
Crataegus spp.
Ilex opaca
Ligustrum sinensis
Liquidambar styraciflua
Nyssa biflora
Pinus taeda
Platanus occidentalis
Quercus micheauxii
Quercus nigra
Rhus copallinum
Salix sp.
Ulmus americana
Total volunteer stems per plot

Table 37. Plot 11-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.66	31.20	5.00	0.00	0.67	29	0.39	27	0.58	39	0.95	25	0.72	36		
Liriodendron tulipifera	0.64	38.00	2.00	0.00	0.69	51	0.59	25								
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**7.00**	**0.00**												
Total planted stems per acre			**283.29**													

Table 37. Plot 11-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	12	6	4											
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	22													

Table 38. Plot 11-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.90	40.17	6.00	1.00	0.61	51	0.93	48	1.08	35	1.08	29	0.58	27	1.1	51	d	d		
Liriodendron tulipifera			0.00	1.00	d	d														
Nyssa biflora			0.00	0.00																
Platanus occidentalis	1.36	174.33	3.00	0.00	1.8	215	2	280	0.28	28										
Quercus falcata			0.00	0.00																
Quercus lyrata			0.00	0.00																
Quercus nigra			0.00	0.00																
Quercus pagoda			0.00	0.00																
Quercus phellos			0.00	0.00																
Quercus rubra			0.00	0.00																
Quercus virginiana			0.00	0.00																
Quercus spp.			0.00	0.00																
Taxodium distichum			0.00	0.00																
Total planted stems per plot			**9.00**	**2.00**																
Total planted stems per acre			**364.23**																	

Table 38. Plot 11-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia				1										
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	1													

Table 39. Plot 11-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.74	29.33	3.00	2.00	0.73	41	0.54	30	0.96	17	d	d	d	d		
Liriodendron tulipifera			0.00	5.00	d	d	d	d	d	d	d	d	d	d		
Nyssa biflora			0.00	0.00												
Platanus occidentalis	1.85	170.33	3.00	0.00	2.1	141	1.7	245	1.74	125						
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**6.00**	**7.00**												
Total planted stems per acre			**242.82**													

Table 39. Plot 11-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0													

Table 40. Plot 12-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica			0.00	0.00												
Liriodendron tulipifera			0.00	2.00	d	d	d	d								
Nyssa biflora	0.58	54.00	3.00	2.00	d	d	0.56	47	0.65	70	d	d	0.53	45		
Platanus occidentalis	0.48	58.00	1.00	0.00	0.48	58										
Quercus falcata	0.68	46.00	1.00	0.00	0.68	46										
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**5.00**	**4.00**												
Total planted stems per acre			**202.35**													

Table 40. Plot 12-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.	2	1												
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua		3		1										
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	7													

Table 41. Plot 12-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.71	40.00	3.00	0.00	0.52	28	0.75	37	0.86	55						
Liriodendron tulipifera			0.00	5.00	d	d	d	d	d	d	d	d	d	d		
Nyssa biflora			0.00	0.00												
Platanus occidentalis	1.08	84.00	3.00	0.00	1.16	87	1	75	1.08	90						
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos	0.88	68.00	1.00	0.00	0.88	68										
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	1.00	d	d										
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**7.00**	**6.00**												
Total planted stems per acre			**283.29**													

Table 41. Plot 12-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.	3	1												
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	2	2	1		1									
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	10													

Table 42. Plot 12-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.52	62.00	2.00	0.00	0.49	61	0.55	63								
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos	1.90	111.00	2.00	2.00	d	d	d	d	1.96	114	1.83	108				
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**4.00**	**2.00**												
Total planted stems per acre			**161.88**													

Table 42. Plot 12-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.	1													
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	5	27	12											
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	45													

Table 43. Plot 12-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.48	31.91	12.00	1.00	d	d	0.39	26	0.28	23	0.54	24	0.61	41	0.47	24
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**12.00**	**1.00**												
Total planted stems per acre			**485.64**													

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0	no volunteers												

Table 43. Plot 12-4 2007 Monitoring Data - Little Contentnea Creek Riparian BTable 43. Plot 12-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffe

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.48	31.91	12.00	1.00	0.48	24	0.74	77	0.46	21	0.61	26	0.55	32	0.39	33	0.25	14
Liriodendron tulipifera			0.00	0.00														
Nyssa biflora			0.00	0.00														
Platanus occidentalis			0.00	0.00														
Quercus falcata			0.00	0.00														
Quercus lyrata			0.00	0.00														
Quercus nigra			0.00	0.00														
Quercus pagoda			0.00	0.00														
Quercus phellos			0.00	0.00														
Quercus rubra			0.00	0.00														
Quercus virginiana			0.00	0.00														
Quercus spp.			0.00	0.00														
Taxodium distichum			0.00	0.00														
Total planted stems per plot			**12.00**	**1.00**														
Total planted stems per acre			**485.64**															

	SEEDLING HT CLASS			SAPLINGS
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm
Acer rubrum				
Baccharis halimifolia				
Cornus amomum				
Crataegus spp.				
Ilex opaca				
Ligustrum sinensis				
Liquidambar styraciflua				
Nyssa biflora				
Pinus taeda				
Platanus occidentalis				
Quercus micheauxii				
Quercus nigra				
Rhus copallinum				
Salix sp.				
Ulmus americana				
Total volunteer stems per plot	0	no volunteers		

Table 44. Plot 13-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.85	34.33	6.00	0.00	0.29	22	0.64	20	0.77	22	0.92	30	1.34	64	1.16	48
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**6.00**	**0.00**												
Total planted stems per acre			**242.82**													

Table 44. Plot 13-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	17													
Baccharis halimifolia	2													
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	20	1												
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	40													

Table 45. Plot 13-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.72	33.50	4.00	0.00	0.73	27	0.83	32	0.22	14	1.11	61				
Liriodendron tulipifera	0.56	41.67	6.00	0.00	0.56	57	0.5	34	0.52	52	0.67	48	0.5	27	0.61	32
Nyssa biflora			0.00	0.00												
Platanus occidentalis	0.39	47.00	2.00	0.00	0.23	32	0.55	62								
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos	0.46	39.67	3.00	0.00	0.8	64	0.3	35	0.27	20						
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**15.00**	**0.00**												
Total planted stems per acre			**607.05**													

Table 45. Plot 13-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	3													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	3													

Table 46. Plot 13-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	Average Diameter (cm)	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.52	27.00	2.00	0.00	0.51	28	0.52	26								
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora			0.00	0.00												
Platanus occidentalis	0.65	50.33	3.00	0.00	0.56	80	0.61	31	0.78	40						
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos	0.46	43.75	4.00	0.00	0.51	57	0.5	30	0.42	35	0.39	53				
Quercus rubra	0.59	48.00	1.00	0.00	0.59	48										
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**10.00**	**0.00**												
Total planted stems per acre			**404.7**													

Table 46. Plot 13-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0													

Table 47. Plot 13-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC. **Table 47. Plot 13-4 2007 Monitoring**

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.66	47.67	6.00	3.00	0.7	52	0.63	53	0.51	50	0.81	60	0.67	44	0.66	27	d	d	d	d	d	d		
Liriodendron tulipifera			0.00	0.00																				
Nyssa biflora			0.00	0.00																				
Platanus occidentalis			0.00	0.00																				
Quercus falcata			0.00	0.00																				
Quercus lyrata			0.00	0.00																				
Quercus nigra			0.00	0.00																				
Quercus pagoda			0.00	0.00																				
Quercus phellos			0.00	0.00																				
Quercus rubra			0.00	0.00																				
Quercus virginiana			0.00	0.00																				
Quercus spp.			0.00	5.00	d	d	d	d	d	d	d	d	d	d										
Taxodium distichum			0.00	0.00																				
Total planted stems per plot			**6.00**	**8.00**																				
Total planted stems per acre			**242.82**																					

Table 47. Plot 13-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Table 47. Plot 13-4 2007 Monitoring

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0	no volunteers												

Table 48. Plot 14-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.64	40.67	3.00	0.00	0.63	38	0.5	42	0.8	42						
Liriodendron tulipifera			0.00	1.00	d	d										
Nyssa biflora			0.00	0.00												
Platanus occidentalis	1.06	81.00	5.00	0.00	1.33	48	1.06	76	1.05	107	0.77	62	1.07	112		
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos	1.13	66.00	1.00	0.00	1.13	66										
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**9.00**	**1.00**												
Total planted stems per acre			**364.23**													

Table 48. Plot 14-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	200	50												
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	10													
Nyssa biflora														
Pinus taeda			1											
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	261													

Table 49. Plot 14-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	1.01	31.33	3.00	0.00	0.99	47	0.92	18	1.11	29						
Liriodendron tulipifera	0.56	34.00	1.00	0.00	0.56	34										
Nyssa biflora			0.00	0.00												
Platanus occidentalis	0.45	33.00	2.00	0.00	0.6	42	0.3	24								
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	1.76	45.00	1.00	0.00	1.76	45										
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	1.00	d	d										
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**7.00**	**1.00**												
Total planted stems per acre			**283.29**													

Table 49. Plot 14-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	300													
Baccharis halimifolia			5											
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	1	2	3											
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	311													

Table 50. Plot 14-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica			0.00	0.00												
Liriodendron tulipifera	0.67	45.50	2.00	0.00	0.18	11	1.15	80								
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	0.63	52.50	2.00	0.00	0.52	65	0.74	40								
Quercus pagoda			0.00	0.00												
Quercus phellos	0.52	59.50	6.00	0.00	0.72	63	0.39	38	0.92	109	0.46	61	0.14	35	0.5	51
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**10.00**	**0.00**												
Total planted stems per acre			**404.7**													

Table 50. Plot 14-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	200													
Baccharis halimifolia	4													
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	80	5	5											
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	294													

Table 51. Plot 14-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.62	28.50	4.00	1.00	0.56	26	0.65	28	0.51	20	d	d	0.77	40								
Liriodendron tulipifera	0.55	28.00	1.00	0.00	0.55	28																
Nyssa biflora			0.00	0.00																		
Platanus occidentalis			0.00	0.00																		
Quercus falcata			0.00	0.00																		
Quercus lyrata			0.00	0.00																		
Quercus nigra	0.62	44.00	1.00	0.00	0.62	44																
Quercus pagoda			0.00	0.00																		
Quercus phellos	0.68	63.38	8.00	0.00	1.18	100	1.02	98	0.76	55	0.5	88	0.53	65	0.5	25	0.37	31	0.6	45		
Quercus rubra			0.00	0.00																		
Quercus virginiana			0.00	0.00																		
Quercus spp.			0.00	0.00																		
Taxodium distichum			0.00	0.00																		
Total planted stems per plot			**14.00**	**1.00**																		
Total planted stems per acre			**566.58**																			

Table 51. Plot 14-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	100	1												
Baccharis halimifolia	1	1	2											
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	50	4												
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	159													

Table 52. Plot 15-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica			0.00	1.00	d	d										
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	0.77	83.67	3.00	0.00	0.6	34	1	94	0.7	123						
Quercus pagoda	0.60	62.00	1.00	0.00	0.6	62										
Quercus phellos	0.48	57.00	4.00	0.00	0.7	102	0.2	23	0.5	38	0.5	65				
Quercus rubra			0.00	0.00												
Quercus virginiana	0.58	65.83	6.00	0.00	0.4	42	0.7	85	0.5	68	0.5	58	0.9	92	0.5	50
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**14.00**	**1.00**												
Total planted stems per acre			**566.58**													

Table 52. Plot 15-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia			3											
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	7	3												
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	13													

Table 53. Plot 15-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica			0.00	0.00												
Liriodendron tulipifera			0.00	0.00												
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata	0.71	57.30	10.00	0.00	1.1	93	0.71	23	0.7	61	0.22	25	0.31	44	1.73	103
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos	0.62	71.00	1.00	0.00	0.62	71										
Quercus rubra			0.00	0.00												
Quercus virginiana	0.47	120.00	2.00	0.00	0.5	178	0.44	62								
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**13.00**	**0.00**												
Total planted stems per acre			**526.11**													

Table 53. Plot 15-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	1													
Baccharis halimifolia		1	1	1										
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	7	1												
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	12													

Table 53. Plot 15-2 2007 Monitoring Data - Little Contentnea Creek Riparian Table 53. Plot 15-2 2007 Monitoring Data - Lit

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica			0.00	0.00								
Liriodendron tulipifera			0.00	0.00								
Nyssa biflora			0.00	0.00								
Platanus occidentalis			0.00	0.00								
Quercus falcata			0.00	0.00								
Quercus lyrata	0.71	57.30	10.00	0.00	0.67	52	0.3	25	0.68	62	0.67	85
Quercus nigra			0.00	0.00								
Quercus pagoda			0.00	0.00								
Quercus phellos	0.62	71.00	1.00	0.00								
Quercus rubra			0.00	0.00								
Quercus virginiana	0.47	120.00	2.00	0.00								
Quercus spp.			0.00	0.00								
Taxodium distichum			0.00	0.00								
Total planted stems per plot			**13.00**	**0.00**								
Total planted stems per acre			**526.11**									

Table 53. Plot 15-2 2007 Monitoring Data - Little Contentnea Creek Riparian Table 53. Plot 15-2 2007 Monitoring Data - Lit

	SEEDLING HT CLASS			SAPLINGS
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm
Acer rubrum	1			
Baccharis halimifolia		1	1	1
Cornus amomum				
Crataegus spp.				
Ilex opaca				
Ligustrum sinensis				
Liquidambar styraciflua	7	1		
Nyssa biflora				
Pinus taeda				
Platanus occidentalis				
Quercus micheauxii				
Quercus nigra				
Rhus copallinum				
Salix sp.				
Ulmus americana				
Total volunteer stems per plot	12			

Table 54. Plot 15-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	1.08	64.60	10.00	0.00	1.21	62	0.95	80	1	54	0.8	61	1.13	59	1.23	74
Liriodendron tulipifera	0.60	25.00	2.00	1.00	0.59	26	d	d	0.6	24						
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**12.00**	**1.00**												
Total planted stems per acre			**485.64**													

Table 54. Plot 15-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia			2	1										
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	8	2	2											
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	15													

Table 54. Plot 15-3 2007 Monitoring Data - Little Contentnea Creek Riparian Table 54. Plot 15-3 2007 Monitoring Data - Lit

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	1.08	64.60	10.00	0.00	1.22	80	0.61	42	1.28	81	1.36	53
Liriodendron tulipifera	0.60	25.00	2.00	1.00								
Nyssa biflora			0.00	0.00								
Platanus occidentalis			0.00	0.00								
Quercus falcata			0.00	0.00								
Quercus lyrata			0.00	0.00								
Quercus nigra			0.00	0.00								
Quercus pagoda			0.00	0.00								
Quercus phellos			0.00	0.00								
Quercus rubra			0.00	0.00								
Quercus virginiana			0.00	0.00								
Quercus spp.			0.00	0.00								
Taxodium distichum			0.00	0.00								
Total planted stems per plot			**12.00**	**1.00**								
Total planted stems per acre			**485.64**									

Table 54. Plot 15-3 2007 Monitoring Data - Little Contentnea Creek Riparian Table 54. Plot 15-3 2007 Monitoring Data - Lit

	SEEDLING HT CLASS			SAPLINGS
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm
Acer rubrum				
Baccharis halimifolia			2	1
Cornus amomum				
Crataegus spp.				
Ilex opaca				
Ligustrum sinensis				
Liquidambar styraciflua	8	2	2	
Nyssa biflora				
Pinus taeda				
Platanus occidentalis				
Quercus micheauxii				
Quercus nigra				
Rhus copallinum				
Salix sp.				
Ulmus americana				
Total volunteer stems per plot	15			

Table 55. Plot 15-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	1.09	64.13	8.00	0.00	0.9	57	1	75	1.2	38	1.7	80	1	57	1	84	1.2	78	0.7	44		
Liriodendron tulipifera	0.50	31.00	1.00	0.00	0.5	31																
Nyssa biflora			0.00	0.00																		
Platanus occidentalis			0.00	0.00																		
Quercus falcata			0.00	0.00																		
Quercus lyrata			0.00	0.00																		
Quercus nigra			0.00	0.00																		
Quercus pagoda			0.00	0.00																		
Quercus phellos	0.60	33.50	2.00	0.00	0.2	20	1	47														
Quercus rubra			0.00	0.00																		
Quercus virginiana			0.00	0.00																		
Quercus spp.			0.00	1.00	d	d																
Taxodium distichum			0.00	0.00																		
Total planted stems per plot			**11.00**	**1.00**																		
Total planted stems per acre			**445.17**																			

Table 55. Plot 15-4 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia		1	2											
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	3													
Nyssa biflora														
Pinus taeda	1													
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	7													

Table 56. Plot 16-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.47	24.50	4.00	1.00	d	d	0.87	34	0.61	24	0.21	20	0.19	20		
Liriodendron tulipifera	0.27	15.00	1.00	2.00	d	d	d	d	0.27	15						
Nyssa biflora			0.00	0.00												
Platanus occidentalis	1.15	97.00	1.00	0.00	1.15	97										
Quercus falcata			0.00	0.00												
Quercus lyrata	0.63	31.00	1.00	0.00	0.63	31										
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos	0.75	59.00	2.00	0.00	1.19	76	0.3	42								
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	0.00												
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**9.00**	**3.00**												
Total planted stems per acre			**364.23**													

Table 56. Plot 16-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	1													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	1													

Table 57. Plot 16-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.55	24.83	6.00	3.00	d	d	d	d	0.8	39	d	d	0.34	19	0.75	26	0.14	3	0.77	45	0.5	17
Liriodendron tulipifera			0.00	6.00	d	d	d	d	d	d	d	d	d	d	d	d						
Nyssa biflora	0.61	23.00	1.00	0.00	0.61	23																
Platanus occidentalis			0.00	0.00																		
Quercus falcata			0.00	0.00																		
Quercus lyrata			0.00	0.00																		
Quercus nigra			0.00	0.00																		
Quercus pagoda			0.00	0.00																		
Quercus phellos			0.00	0.00																		
Quercus rubra			0.00	0.00																		
Quercus virginiana			0.00	0.00																		
Quercus spp.			0.00	0.00																		
Taxodium distichum			0.00	0.00																		
Total planted stems per plot			**7.00**	**9.00**																		
Total planted stems per acre			**283.29**																			

Table 57. Plot 16-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	0													

Table 58. Plot 16-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.84	51.57	7.00	0.00	1.3	92	0.6	46	0.9	39	0.7	49	0.9	40	0.8	38	0.7	57		
Liriodendron tulipifera			0.00	0.00																
Nyssa biflora			0.00	0.00																
Platanus occidentalis			0.00	0.00																
Quercus falcata			0.00	0.00																
Quercus lyrata			0.00	0.00																
Quercus nigra			0.00	0.00																
Quercus pagoda			0.00	0.00																
Quercus phellos	0.83	57.75	4.00	0.00	1	96	1.1	43	0.2	17	1	75								
Quercus rubra			0.00	0.00																
Quercus virginiana			0.00	0.00																
Quercus spp.			0.00	0.00																
Taxodium distichum			0.00	0.00																
Total planted stems per plot			**11.00**	**0.00**																
Total planted stems per acre			**445.17**																	

Table 58. Plot 16-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	5													
Baccharis halimifolia		1	3											
Cornus amomum														
Crataegus spp.														
Ilex opaca	2													
Ligustrum sinensis														
Liquidambar styraciflua	5													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	16													

Table 59. Plot 17-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.93	51.67	3.00	2.00	1.1	68	0.9	60	d	d	d	d	0.8	27		
Liriodendron tulipifera	1.03	69.33	3.00	0.00	0.4	30	1.5	112	1.2	66						
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra	0.90	75.00	1.00	0.00	0.9	75										
Quercus pagoda			0.00	0.00												
Quercus phellos			0.00	0.00												
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	2.00	d	d	d	d								
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**7.00**	**4.00**												
Total planted stems per acre			**283.29**													

Table 59. Plot 17-1 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	1													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca			2											
Ligustrum sinensis														
Liquidambar styraciflua	1													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum	3													
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	7													

Table 60. Plot 17-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica			0.00	0.00														
Liriodendron tulipifera	0.82	74.57	7.00	0.00	0.32	32	0.31	33	0.88	84	0.8	81	1.3	102	0.7	87	1.4	103
Nyssa biflora			0.00	0.00														
Platanus occidentalis			0.00	0.00														
Quercus falcata			0.00	0.00														
Quercus lyrata			0.00	0.00														
Quercus nigra	0.38	58.00	2.00	0.00	0.15	25	0.6	91										
Quercus pagoda	0.65	72.50	2.00	0.00	1	98	0.3	47										
Quercus phellos	0.69	95.00	1.00	0.00	0.69	95												
Quercus rubra			0.00	0.00														
Quercus virginiana			0.00	0.00														
Quercus spp.			0.00	0.00														
Taxodium distichum			0.00	0.00														
Total planted stems per plot			**12.00**	**0.00**														
Total planted stems per acre			**485.64**															

Table 60. Plot 17-2 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum	1													
Baccharis halimifolia														
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis														
Liquidambar styraciflua	1													
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum														
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	2													

Table 61. Plot 17-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

Species	**Average Diameter (cm)**	**Average Height (cm)**	**Total Live Stems**	**Total Dead**	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)	Diameter (cm)	Height (cm)
Fraxinus pennsylvanica	0.63	34.25	4.00	0.00	0.4	45	0.3	25	0.9	24	0.9	43				
Liriodendron tulipifera	0.83	54.33	3.00	0.00	1.1	71	0.4	27	1	65						
Nyssa biflora			0.00	0.00												
Platanus occidentalis			0.00	0.00												
Quercus falcata			0.00	0.00												
Quercus lyrata			0.00	0.00												
Quercus nigra			0.00	0.00												
Quercus pagoda			0.00	0.00												
Quercus phellos	0.80	54.00	1.00	0.00	0.8	54										
Quercus rubra			0.00	0.00												
Quercus virginiana			0.00	0.00												
Quercus spp.			0.00	3.00	d	d	d	d	d	d						
Taxodium distichum			0.00	0.00												
Total planted stems per plot			**8.00**	**3.00**												
Total planted stems per acre			**323.76**													

Table 61. Plot 17-3 2007 Monitoring Data - Little Contentnea Creek Riparian Buffer Restoration - Phase 3 - Greene County, NC.

	SEEDLING HT CLASS			SAPLINGS DBH		TREES - DBH								
Volunteer woody stems	10-50cm	50-100cm	100-137cm	0-1 cm	1-2.5 cm	2.5	5	10	15	20	25	30	35	40
Acer rubrum														
Baccharis halimifolia		1	1											
Cornus amomum														
Crataegus spp.														
Ilex opaca														
Ligustrum sinensis		1												
Liquidambar styraciflua														
Nyssa biflora														
Pinus taeda														
Platanus occidentalis														
Quercus micheauxii														
Quercus nigra														
Rhus copallinum	1													
Salix sp.														
Ulmus americana														
Total volunteer stems per plot	4	no volunteers												