Native Plant Studies Certificate Project

Gardening by Natural Community:

Using Local Communities to Guide Plant Selection and Garden Design



Alluvial Forest, Morgan Creek at Mason Farm Biological Reserve (Photo by David Blevins, Ph.D.)

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Gardening by Natural Community:

Using Local Communities to Guide Plant Selection and Garden Design

"In the past we have not designed gardens that play a critical ecological role in the landscape, but we **must** do so in the future. **The importance of our doing this cannot be overstated**. We need to quickly replace unnecessary lawn with densely planted woodlots in the East and West, and natural prairies in the Midwest; whatever can serve as habitat for our local biodiversity" (Doug Tallamy).

Project Description

Objective: Develop content for a webpage that assists home gardeners in creating native gardens based on local natural communities.

The goal of the project is to promote gardening within nature's context. An online tool will help gardeners identify their local natural communities, provide a palette of native plants by natural community, map accessible natural areas to visit, and link to recommended native plant sources.

Background Information and Method:

- 1. Reviewed key soil series information for Orange County. Attachment 1
- 2. Reviewed key natural community information for Orange County. Attachment 2
- 3. Linked natural communities to Orange County major rock type. Attachment 3
- 4. Linked soil series to natural communities (multiple iterations). Attachment 4
- 5. Compiled plant lists by natural community. <u>Attachment 5</u>
- 6. Reviewed and mapped accessible natural areas of Orange County. Google map
- 7. Worked with web designer to develop page content. Natural Communities page
- 8. Proposed flora updates. Attachment 6

Discussion:

Project work occurred in two distinct phases. Early work, late 2010 through June of 2012, involved the identification, compilation, and review of existing natural community-related information. The second effort, July to October of 2012, entailed working collaboratively with a web designer to adapt project detail to user-friendly web content.

Information gathering and analysis

The first phase began with accessing soil data for Orange County from the Web Soil Survey (<u>Attachment 1</u>). Schafale and Weakley's 3rd Approximation was then used to gather information on soil series, flora and places to visit by natural community. Plot summary data from the Carolina Vegetation Survey (<u>Attachment 2</u>) and the March 2012 release of the 4th Approximation were reviewed to update initial soil series (<u>Attachment 4</u>) and flora detail (<u>Attachment 5</u>). The 2004 Inventory of Natural Areas and Wildlife Habitats for Orange County guided expansion of the list of accessible local places to visit (<u>Google map</u>).

Webpage development

The second phase of the project involved gaining approval for inclusion on the new Orange County Extension Master Gardener Volunteer website. The site, developed for a broad audience, aims to provide research-based horticultural and environmental information of interest to anyone who gardens in Orange County or adjacent areas.

In developing the natural community page, we sought to make information accessible on varying levels, depending on the interest and expertise of the viewer. The page content is structured to build from broad concepts to more specific detail. Brevity was an important factor in narrative development and we tried to make liberal use of graphics and photos. (A pictorial overview of the natural communities' page organization and key features follows the discussion section.)

Flora updates

<u>Attachments 6a - 61</u> reflect proposed updates to the webpage plant lists by community. The attached lists attempt to better convey a sense of abundance by community, as well as, add plants of horticultural interest. Species are listed in descending constancy order (sourced from CVS constancy tables), with adjustments made to try and correctly reflect spring ephemerals' abundance and align dominant trees with *4th Approximation* community descriptions.

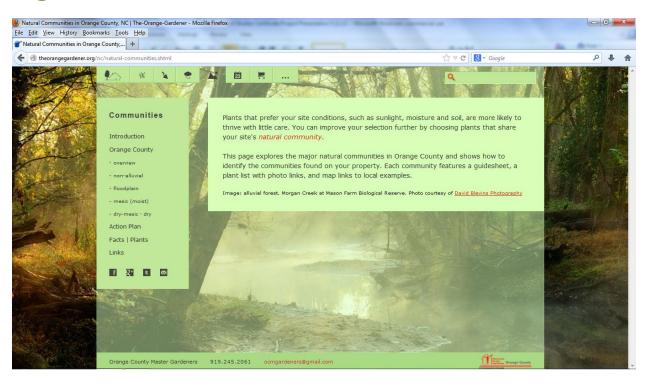
Methodology:

- Created initial list of plants by community from Schafale & Weakley's 3rd Approximation.
- Updated the list with information from the *4th Approximation*, 3/12. (This is the plant information currently on the website.)
- Reviewed abundance information on the Carolina Vegetation Survey site by community sorted to 40% constancy, 10/12 and then, for all plants, 1/13.
- Reviewed and added plants, abundance information from Spira's *Wildflowers & Plant Communities*, 2/13.
- Reviewed and added plants from NCBG's 2012 fall plant sale and 2013 seed lists, 2/13.
- Reviewed abundance information for Orange County on Cook's Trees, Shrubs, and Woody Vines website, 2/13.
- Proposed updates to plant lists out for review, 3/13.

Once the plant lists are reviewed and finalized, the webpages will be updated to distinguish the three proposed abundance categories by color - abundant, moderately abundant and occasional to locally abundant. Each category will be listed in alphabetical, not descending constancy, order.

Webpage - http://theorangegardener.org/nc/natural-communities.shtml

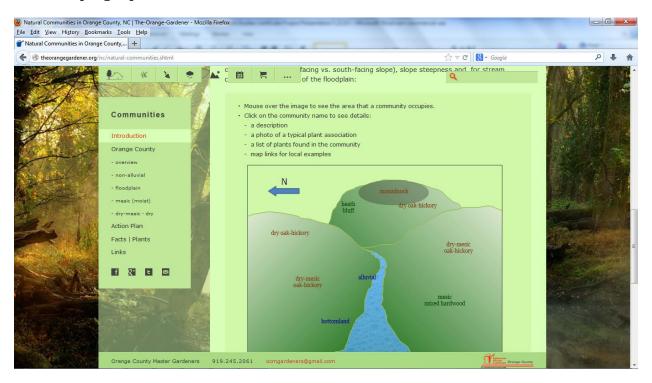
Organization



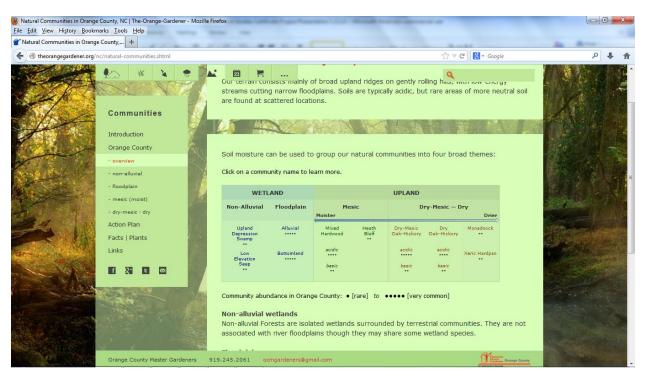
- Introduction discusses conceptual definition, classification and significance of natural communities; simple community landscape graphic; sources
- Orange County Overview uses soil moisture to group thirteen communities into four broad themes - non-alluvial, floodplain, mesic, dry-mesic to dry - noting relative abundance
- Orange County Communities natural community detail within each theme includes a
 description, photo, printable plant list with photo links, printable guidesheet, and map
 of local natural areas with linked website and trail map information
- Action Plan guided approach to identifying natural community by soil series with common plants for each community linked to photos and additional information
- Facts/Plants quick access to all community plant lists, guidesheets, and CVS data by natural community
- Links

Key Features

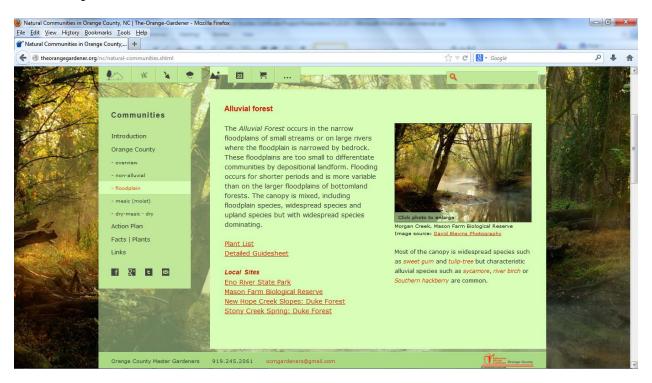
Landscape graphic – quick estimate of community by landscape position



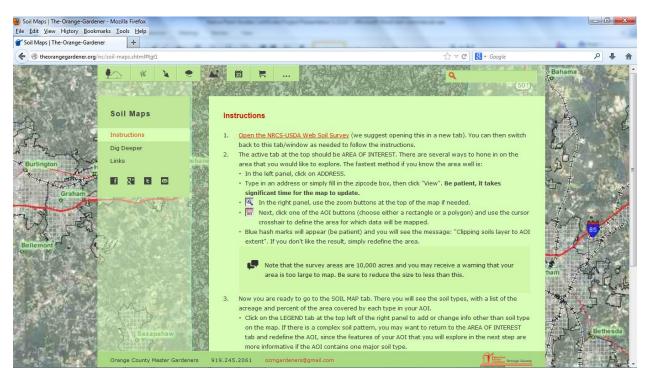
Themes graphic – communities grouped by soil moisture with OC relative abundance



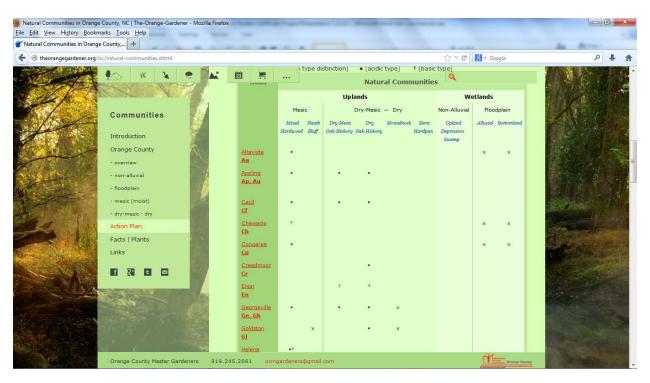
Blevins' photos – high resolution, local images of common OC communities



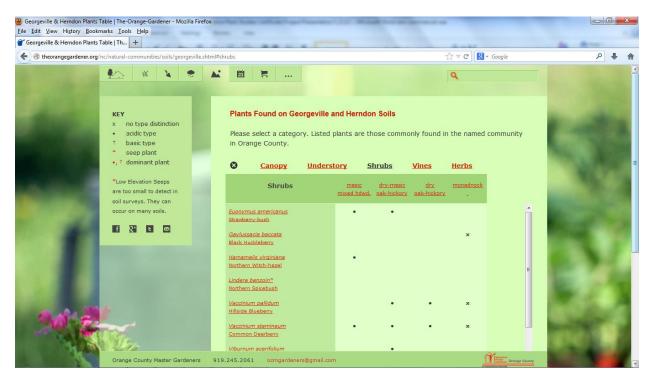
Guided soil map instructions – uses Web Soil Survey to determine soil series by address



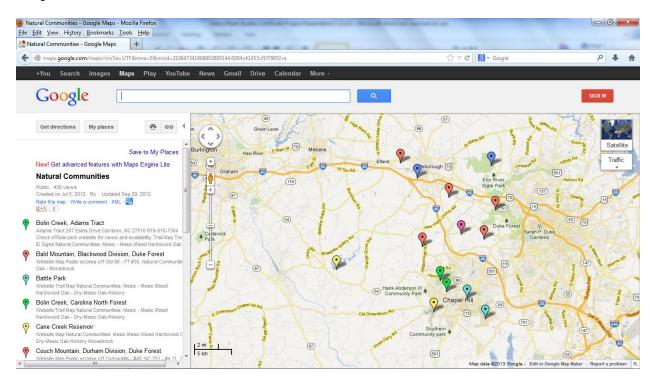
Soils table - links soil series to associated natural communities and common plant species



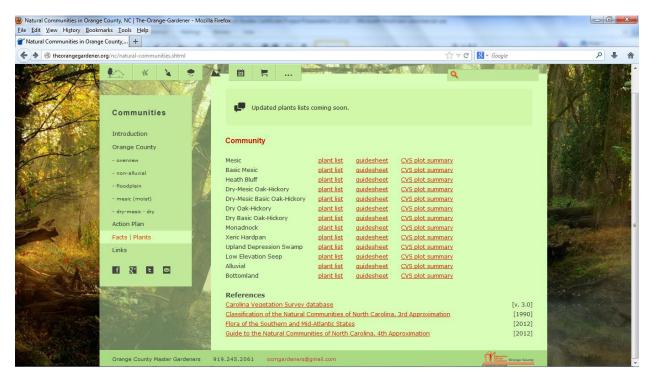
Plants tables – lists plants commonly found in the named OC community (by soil series)



Map of local natural areas – website, trail map, and community info (where available)



Facts/Plants page – quick access to all plant lists, guides, and CVS info



References

Blevins, David, and Michael P. Schafale. *Wild North Carolina: Discovering the Wonders of Our State's Natural Communities*. Chapel Hill: University of North Carolina, 2011. Print.

Daniels, R. B., S. W. Buol, H. J. Kleiss, and C. A. Ditzler. *Soil Systems in North Carolina*. Tech. no. 314. Raleigh, NC: NCSU Soil Science Department, 1999. Print.

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Schafale, Michael P., and Alan S. Weakley. *Classification of the Natural Communities of North Carolina*. Raleigh, NC: NC Natural Heritage Program, Division of Parks and Recreation, DENR, 1990. Print. 3rd Approximation.

Schafale, Michael P. *Guide to the Natural Communities of North Carolina*. Raleigh, NC: NC Natural Heritage Program, DENR, 2012. Print. 4th Approximation.

Spira, Timothy P. Wildflowers & Plant Communities of the Southern Appalachian Mountains & Piedmont: A Naturalist's Guide to the Carolinas, Virginia, Tennessee, & Georgia. Chapel Hill: University of North Carolina, 2011. Print.

Tallamy, Doug. "Gardening for Life." Wild Ones Journal 22.2 (2009): 8-9. Print.

Weakley, Alan S. *Flora of the Southern and Mid-Atlantic States*. Chapel Hill, NC: UNC Herbarium, North Carolina Botanical Garden, University of North Carolina at Chapel Hill, 2012. Print.

"Web Soil Survey." *Web Soil Survey - Home*. Web. 26 May 2012. http://websoilsurvey.nrcs.usda.gov/app/HomePage.htm.

Acknowledgements

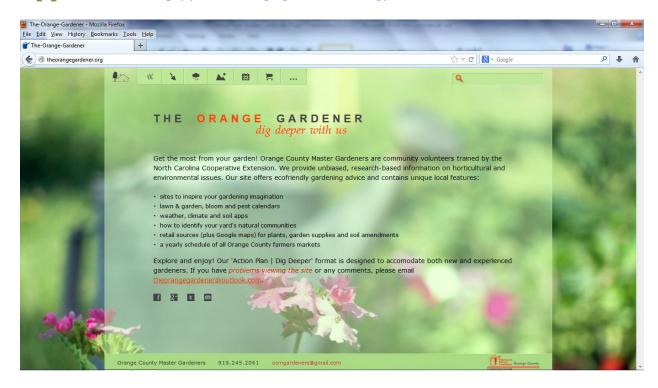
Thank you to Nicolette Cagle who has mentored this project and generously donated her time and expertise.

Many thanks to master gardener colleague, Leigh Simpson, for tirelessly, and with good humor, working to translate project detail to interactive webpage content. Thanks also to Carl Matyac, County Extension Director, Orange County Center, for approving inclusion on the larger OCMG website.

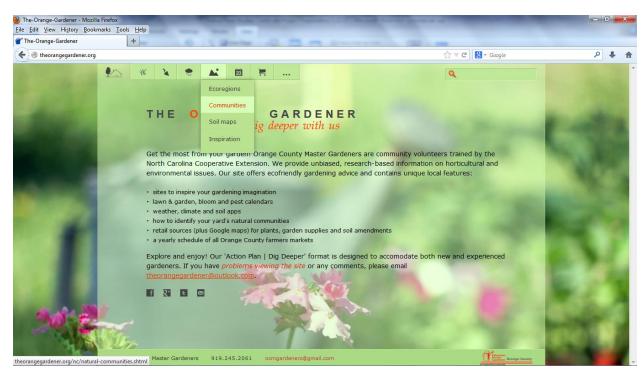
Thank you to Alan Weakley of the UNC Herbarium for review of and feedback concerning webpage content.

Finally, I would like to thank David and Adam Catrambone for their willingness to review and provide constructive feedback throughout the process.

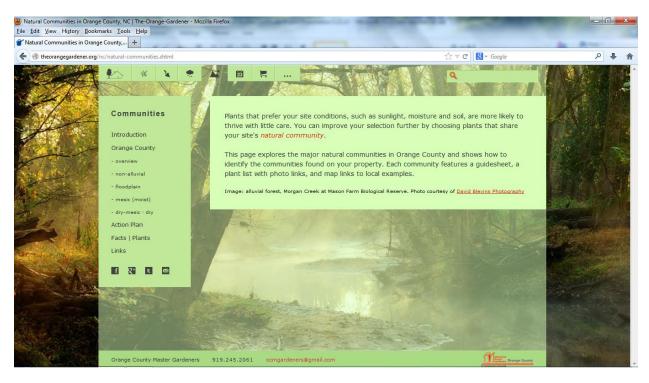
Appendix - http://theorangegardener.org/



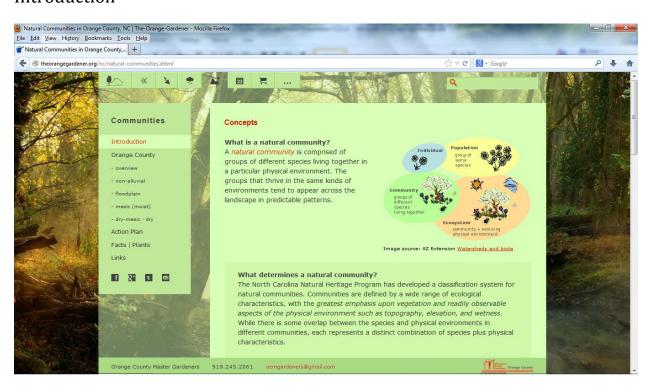
Navigate to Natural Communities page



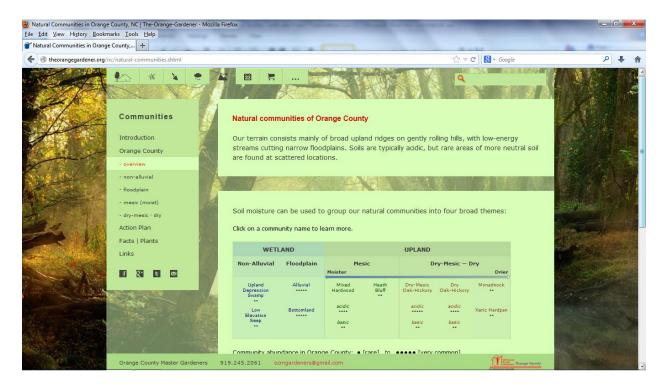
Natural Communities landing page



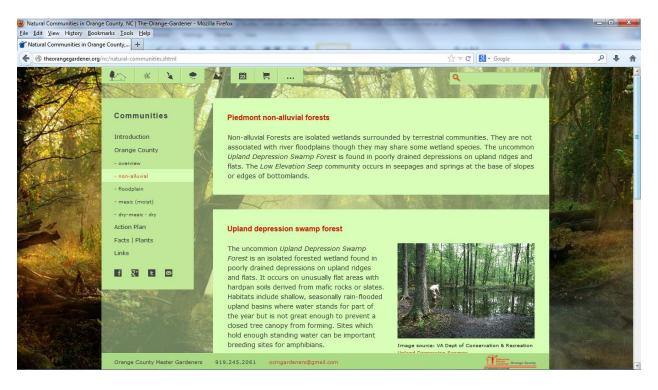
Introduction



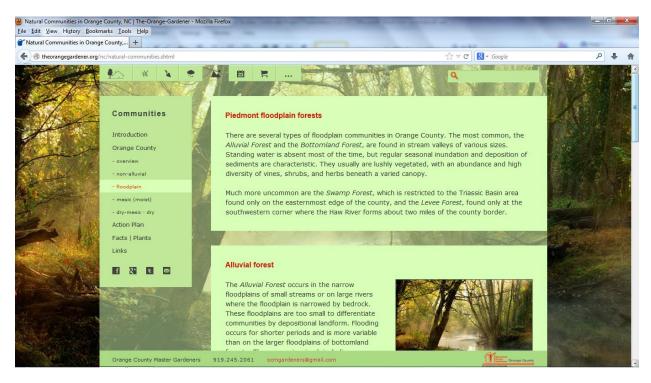
Overview



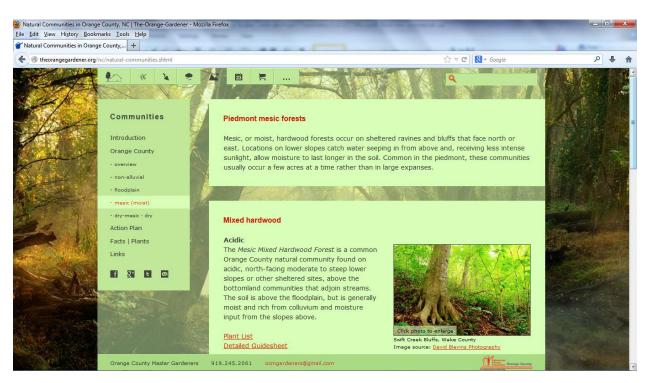
Non-alluvial Communities



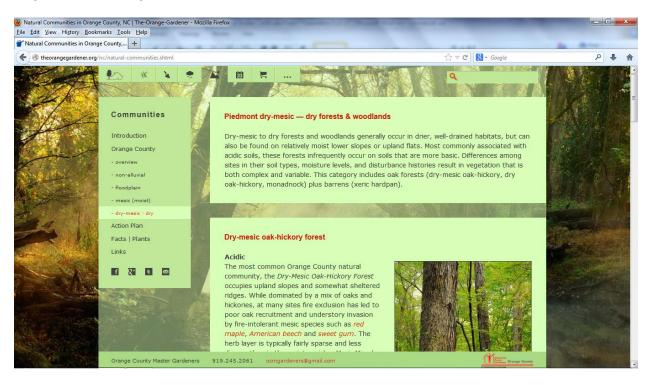
Floodplain Communities



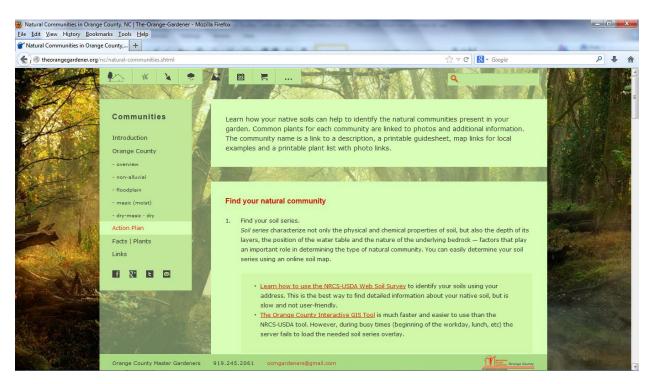
Mesic Communities



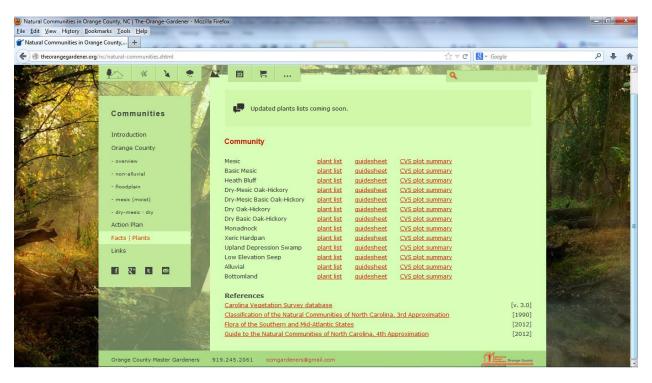
Dry-Mesic to Dry Communities



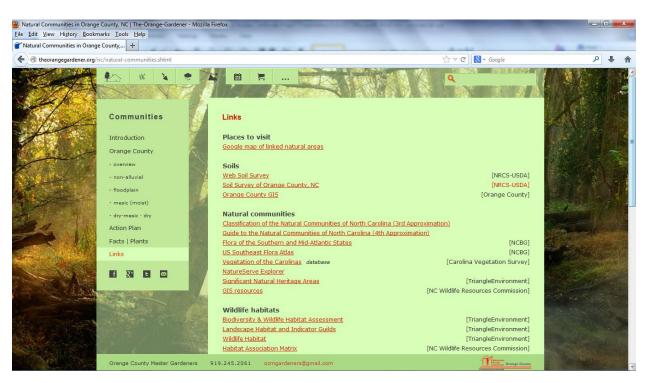
Action Plan



Facts/Plants



Links



Attachments - link to all documents

Attachment 1 Soil Properties

Soil Name	Texture	% Slope	Landform/Position	Stope Shape	Parent Material	Soll Depth (In)	Depth to Water	pH to 12 in	CEC		% Total Soil Name	Family	Order	Notes
White Store	loam	2 - 6	Interfuves/summit	convex	resid shale/silts/muds/sands	40-60	6-18	4.5 - 5.5	5.0 - 40	1,582	0.6% White Store	Fine, mixed, active, thermic Oxyaquic Vertic Hapludalfs	Affisols] —
White Store	clay loam	6 - 15	ridges/backslope	linear/convex	resid shale/silts/muds/sands	40-60	6-18	4.5 - 5.5	5.0 - 40	1,482	0.6% White Store	Fine, mixed, active, thermic Oxyaquic Vertic Hapludalfs	Affisols]
White Store - Urban	complex	2-8	Interfluves/summit	convex	resid shale/silts/muds/sands	40-60	6-18	4.5 - 5.5	5.0 - 40	598	0.2% White Store - Urban	Fine, mixed, active, thermic Oxyaquic Vertic Hapludaifs	Affisols	1
Wilkes	gravelly loam	8 - 15	ridges/backslope	linear/convex	diorite/gabbro/diabase/gnelss	10-20	>80	5.1 - 8.4	3.6 - 31	788	0.3% Wilkes	Loamy, mixed, active, thermic, shallow Typic Hapludaifs	Affisols	pH 5.5 - 6.5 to 6 Inches.
Wikes	gravelly loam	15 - 45	ridges/backslope	linear/convex	diorite/gabbro/diabase/gneiss	10-20	>80	5.1 - 8.4	3.6 - 31	607	0.2% Wilkes	Loamy, mixed, active, thermic, shallow Typic Hapludaifs	Affisols]
Enon	loam	2 - 6	Interfuves/summit	convex	diorite/gabbro/diabase/gnelss	>80	980	5.1 - 7.8	3.1 - 31	10,045	3.9% Enon	Fine, mixed, active, thermic Uttic Hapludaifs	Affisols	pH to 6.5 until 11 inches.
Enon	loam	6 - 12	ridges/backslope	Inear/convex	diorite/gabbro/diabase/gneiss	>80	>80	5.1 - 7.8	3.1 - 31	5,586	2.2% Enon	Fine, mixed, active, thermic Uttic Hapludairs	Affisols]
Iredell	gravelly loam	1-4	Interfuves/summit	linear	diorite/gabbro/diabase/gnelss	40-80	12-24	5.1 - 7.3	9.0 - 30	2,804	1.1% Iredell	Fine, mixed, active, thermic Oxyaquic Vertic Hapludalfs	Affisols]
Iredell - Urban	complex	1-8	Interfluves/summit	linear	diorite/gabbro/diabase/gnelss	40-80	12-24	5.1 - 7.3	9.0 - 30	774	0.3% Iredell - Urban	Fine, mixed, active, thermic Oxyaquic Vertic Hapludaifs	Affisols	1
Orange	slit loam	0-3	Interfluves/summit	linear	residuum from monzonite/l/m	40-60	12-36	5.1 - 7.3	5.8 - 22	3,143	1.2% Orange	Fine, smectitic, thermic Albaquic Hapludaifs	Affisols	1
Chewacia	loam	0-2	flood plains	concave/linear	loamy alluvium I/m	>80	6-24	4.5 - 6.5	4.8 - 18	11,546	4.5% Chewacia	Fine-loamy, mixed, active, thermic Fluvaquentic Dystrudepts	Inceptisois	increasing pH to 7.8 with depth.
Congaree	fine sandy loam	0-2	flood plains	linear	loamy alluvium I/m	>80	30-48	4.5 - 7.3	4.7 - 17	1,705	0.7% Congaree	Fine-loamy, mixed, active, nonacid, thermic Oxyaquic Udifluvents	Entisols	pH constant range.
Georgeville - Urban	complex	2 - 10	interfluves/summit,shoulde	convex	residuum from metavol/argiliti	>80	>80	4.5 - 7.3	6.0 - 16	1,553	0.6% Georgeville - Urban	Fine, kaolinitic, thermic Typic Kanhapluduits	Ultisols	1
Vance	sandy loam	2-8	Interfluves/summit	convex	saprolite granite/gnelss/schist	>80	>80	4.5 - 6.0	3.1 - 16	2,488	1.0% Vance	Fine, mixed, semiactive, thermic Typic Hapluduits	Ultisols	1
Helena	sandy loam	2-8	ridges/summit, footslope	concave	saprolite granite/gnelss/schist	>80	18-30	3.5 - 6.5	1.8 - 16	13,589	5.3% Helena	Fine, mixed, semiactive, thermic Aquic Hapluduits	Ultisols]
Lignum	silt loam	0 - 3	Interfluves/summit	convex/linear	residuum from metavol/argilit	40-60	12-30	2.0 - 7.2	3.6 - 15	8,922	3.5% Lignum	Fine, mixed, semiactive, thermic Aquic Hapluduits	Ultisols	pH 4.5 - 5.5 beyond 12 inches.
Altavista	fine sandy loam	0-3	stream terraces	linear	old loamy alluvium I/m	>80	18-30	4.5 - 6.5	2.5 - 13	277	0.1% Altavista	Fine-loamy, mixed, semiactive, thermic Aquic Hapluduits	Ultisols	1
Helena - Sedgefield	complex	0-2	ridges/summit, footslope	concave	saprolite granite/gnelss/schist	>80	18-30	3.5/4.5 - 6.5	1.0 - 15	1,954	0.8% Helena - Sedgefield	Fine, mixed, semiactive, thermic Aquic Hapluduits, Fine, mixed, active,th	Ultisols	1
Creedmoor	fine sandy loam	2-8	Interfluves/summit	convex	resid shale/slits/muds/sands	72-100	18-24	4.5 - 5.5	2.9 - 9.5	775	0.3% Creedmoor	Fine, mixed, semiactive, thermic Aquic Hapluduits	Ultisols	1
Wedowee	sandy loam	15 - 25	ridges/backslope	linear/convex	saprolite granite/gneiss/schist	>80	>80	3.5 - 5.5	1.6 - 8.1	2.954	1,2% Wedowee	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols	1
Wedowee	sandy loam	8 - 15	ridges/backslope	linear/convex	saprolite granite/gnelss/schist	>80	>80	3.5 - 7.3	1.6 - 8.1	3,340	1.3% Wedowee	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols	pH 4.5 - 7.3 to 7 Inches.
Cecil	fine sandy loam	2-6	Interfluves/summit	convex	saprolite granite/gnelss/schist	>80	>80	4.5 - 6.5	1.0 - 8.1	664	0.3% Cecil	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols	1
Cecil	fine sandy loam	6 - 10	Interfluves/shoulder,summ	convex	saprolite granite/gnelss/schist	>80	>80	4.5 - 6.5	1.0 - 8.1	575	0.2% Cecil	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols	1
Lloyd (Hiwassee)	clay loam	2 - 6	Interfuves/summit	convex	diorite/gabbro/diabase/gnelss	>80	>80	4.5 - 7.3	2.1 - 8.0	961	0.4% Lloyd (Hiwassee)	Fine, kaolinitic, thermic Rhodic Kanhapludults	Ultisols	pH to 6.5 beyond 7 inches.
Lloyd (Hiwassee)	clay loam	6-10	ridges/backslope	linear/convex	diorite/gabbro/diabase/gnelss	>80	>80	4.5 - 7.3	2.1 - 8.0	332	0.1% Lloyd (Hiwassee)	Fine, kaolinitic, thermic Rhodic Kanhapluduits	Ultisols	1
Georgeville	slit loam	2-6	Interfluves/summit	convex	residuum from metavol/argilit	>80	>80	4.5 - 7.3	1.6 - 7.6	49,284	19.2% Georgeville	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols	pH to 7.3 until 10 inches.
Georgeville	slit loam	6 - 10	ridges/summit, shoulder	linear/convex	residuum from metavol/argiliti	>80	>80	4.5 - 7.3	1.6 - 7.6	31,567	12.3% Georgeville	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols	1
Tarrus (Tatum)	slit loam	8 - 15	ridges/backslope	linear/convex	residuum from metavol/argilit	40-60	>80	4.5 - 5.5	2.3 - 7.2	15,397	6.0% Tamus (Tatum)	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols	1
Tarrus (Tatum)	slit loam	15 - 25	ridges/backslope	linear/convex	residuum from metavol/argilit	40-60	>80	4.5 - 5.5	2.3 - 7.2	7,631	3.0% Tamus (Tatum)	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols	1
Hemdon	silt loam	2 - 6	Interfuves/summit	convex	residuum from metavol/argilit	>80	>80	3.5 - 6.5	1.6 - 7.1	27,150	10.6% Herndon	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols	pH 4.5 - 6.5 until 9 inches.
Hemdon	slit loam	6 - 10	ridges/summit, shoulder	linear/convex	residuum from metavol/argilit	>80	>80	3.5 - 6.5	1.6 - 7.1	14,362	5.6% Herndon	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols	1
Goldston	channery sit loam	6 - 15	ridges/backslope	linear/convex	residuum from metavol/argilit	10-20	980	3.5 - 5.5	0.5 - 7.0	783	0.3% Goldston	Loamy-skeletal, siliceous, semiactive, thermic, shallow Typic Dystrudepts	Inceptisois]
Goldston	channery slit loam	15 - 45	ridges/backslope	linear/convex	residuum from metavol/argiliti	10-20	>80	3.5 - 5.5	0.5 - 7.0	1,957	0.8% Goldston	Loamy-skeletal, siliceous, semiactive, thermic, shallow Typic Dystrudepts	Inceptisois]
Appling - Urban	complex	2 - 10	ridges/backslope	linear/convex	saprolite granite/gnelss/schist	> 80	>80	4.5 - 5.5	1.6 - 6.5	927	0.4% Appling - Urban	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols]
Appling	sandy loam	2-6	interfluve/summit	convex	saprolite granite/gnelss/schist	> 80	>80	4.5 - 6.5	1.6 - 6.5	14,198	5.5% Appling	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols	1
Appling	sandy loam	6 - 10	ridges/backslope	linear/convex	saprolite granite/gnelss/schist	> 80	980	4.5 - 6.5	1.6 - 6.5	7,215	2.8% Appling	Fine, kaolinitic, thermic Typic Kanhapludults	Ultisols]
Wateree (Louisburg)	sandy loam	6 - 15	ridges/backslope	linear/convex	saprolite granite/gneiss	20-40	>80	4.5 - 6.0	1.3 - 5.7	1,716	0.7% Wateree (Louisburg)	Coarse-loamy, mixed, semiactive, thermic Typic Dystrudepts	Inceptisois]
Wateree (Louisburg)	sandy loam	15 - 45	ridges/backslope	linear/convex	saproite granite/gneiss	20-40	>80	4.5 - 6.0	1.3 - 5.7	2,223	0.9% Wateree (Louisburg)	Coarse-loamy, mixed, semiactive, thermic Typic Dystrudepts	Inceptisois]
Pits	quarry				granite/gneiss			-		125	0.0% Pits]
Urban land					Impervious layers	> 200	> 200	-		825	0.3% Urban land]
Water						-	-	-		2,196	0.9% Water			1
	Totals		•	•		•	•			256.597	100.0%	•		*

Sources:

30il Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web 30il Survey. Available online at http://websoilsurvey.nrcs.usda.gov/. Accessed 8/31/20

Data Source Information: Soil Survey Area: Orange County, North Carolina Survey Area Data: Version 11, Feb 19, 2010

Reports used: Available Water Supply, 0 - 150 cm, 9/29/201 Chemical Goll Properties, 9/29/2011 Map Unit Description, 9/6/2011, 1/17/2012 Parent Material Name, 9/6/2011 Soll Taxonomy Classification 8/31/2011

Source copies in binder

Attachment 2 Carolina Vegetation Survey Community Properties Table

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Samuels	Topics	į	•	•			ĸ						1				855	Ī	2	ī		I	A DEC		100		ğ	ı	100		Air		Ē	-	100	-	886		Ē	-	ā	
opine laprorder than to President State (Charles)	180.7	0.4	18.3	4.8	26.6	9.7	40.4	65.1	26.1	41.8	8.6	4.8	98.6	26.6	34.7	30.4	10.8	48.2					82.7	42.9	20.0	74.8	2	6.3	311.9	2007.7	10.0	31.0	1.8	-	3.7			1000.1		4.3	7.6	2.0
NAME AND POST OFFICE ADDRESS.	123.8	28.3	8.0	2.8	56.6	91.3	33.6	30.6	11.8	19.3	8.4	8.3	96.1	11.2	60.0	SA. I	19.0	28.2			240.3		90.0	48.8	38.8	33.0	0.8	0.3	150.6	130.8	138.2	87.8	1.8	1.4	2.8			803.7		4.4	8.2	60
Parties Selection Code Cities across	77.0	0.3	6.3	2.3	27.0	23.4	46.2	44.5	267	10.0	6.8	4.8	0.7	11.0	42.8	48.2	10.8		780.4				70.7	28.8	27.8	84.1	0.8	0.3	275.3	203.7	138.8	100.0	1.8	4.8	4.0		710.2			0.0	3.8	3.0
Parties Administration Commission Commission	121.0	1.2	8.4	2.4	428	67.1	34.0	31.0	20.8	21.0	8.2	8.4	0.3	8.0	84.0	65.1	25.8	24.7	SPILE	815.4	230.1	981.7	43.0	38.7	28.8	33.4	0.4	0.6	COLUM	175.8	138.2	CO3.6	3.0	1.8	3.3	4.8	SAIL II	748.0	4.4	4.4	4.8	62
In the law law law beautiful and the law	187.8	8.8	7.8	3.4	82.4	46.8		33.6		10.8	8.2	8.4	91.0	47.4	100.4	61.3			97% A	9134.6	218.3	8160	63.0	38.4	28.4	38.3	0.4	0.2	173.6		288.8		4.3	1.2	3.6			632.6	4.4	9.4	4.6	2.6
or feeting the course	1863	2.8	10.0	8.8	712	60.7	28.6	30.7	3.3	0.7	8.8	8.8	ULA	8.6	88.2	MEA		13.8			214.8			47.8	38.0	28.8	6.3	0.3	406.0	877.8	38.0	48.0	2.8	24	4.3		881.0		E.B.	1.0	8.6	8.8
Partners for all firmer Person Cities Street City	188.4	1.0	8.8	4.8	84.4	83.A	38.3	20.6	13.7	18.8	8.2	8.4	91.7	4.3	88.3	60.7	20.8	28.2	1003.7	444.8	C78.8	1137	60.5	38.4	27.2	28.0	0.8	0.8	100.6	180.1	1313	STREET, STREET	1.8	4.8	4.0	1.2	887.8	703.3	1.0	1.2	8.8	6.8
THE RESERVE OF THE PERSON.	1847	7.6	8.7	2.0	84.8	48.0	324	30.8	128	12.2	8.8	8.4	91.6	91.1	62.A	88.3	19.3	27.0	IDCA	E36.4	223.7	824.8	10T.8	79.0	27.8	38.0	0.8	0.3	120.8	138.4	228.3	107 A	1.4	4.4	2.7	0.7	853.0	MMC.0	1	1.0	8.3	2.0
Charles and Control Street, Street	153.8	0.4	6.2	2.7	66.0	63.3		34.7	25.6	28.1	6.8	8.0	95.6	7.6	45.6	48.1	30.4	27.3	678.2	6724	140.3	112.6	BET	42.8	33.7	38.2	0.6	0.6	348.3	273.4	87.3	62.6	23	24	8.2			848.0	6.8	0.0	8.0	6.8
Constitution from their from the constitution	171.0	20.8	6.8	3.2	42.1	201.4	67.0	63.0	10.0	20.7	8.0	8.2	10.8	15.8	40.3	53.4	38.3		767.0				38.7	243		22.8	0.8		180.1	187.3	1713	C33.3	1.3	1.8	2.7	0.8	733.3		1.0	2.1	3.7	2.0
Mary Mary Wheel Port (Principle)	183.8	10.8	7.8	3.8	86.8	44.0	313	38.2	41.0	20.8	6.8	4.8	8.4	2.7	44.8	48.8	20.8		MM				76.2	88.3	22.6	30.4	0.4	0.3	140.8	101.4	87.3	48.0	1.4	4.3	2.6	6.8	ADIL R	MINE D	4.0	4.4	4.8	3.3
THE RESERVE THE PROPERTY.	288.2	10.2	8.3	2.0	883	48.1	324	30.7	127	21.2	6.7	4.0	8.8	8.0	42.0	ART	26.8	40.0	414.3	645.7	86.0	178.8	68.4	TUR	213	22.8	0.4	0.3	210.2	128.0	71.2	32.4	1.0	1.0	2.6	0.0	MILT.	1 1000	1 000	4.0	4.2	3.0
In the most final consumous	204.0	11.2	7.8	3.0	411.0	46.1	413	28.6	47.6	28.8	6.4	4.8	8.3	7.2	34.3	48.0	38.4	79.8	331.0	206.7	66.3	115.0	49.2	49.6	67.0	30.8	0.4	0.3	218.2	108.8	74.1	31.3	0.7	6.7	4.8	0.8	813.4	1007.1	4.8	4.4	4.1	6.1
Late Service Print Date Service (Manager)	213.0	6.7	8.4	2.4	18.6	18.4	82.7	80.0	27.7	10.8	3.8	8.7	8.2	11.7	28.6	4KD	36.8	63.7	199.4	BMO	40.8	806.3	28.8	28.3	28.2	338.0	0.4	0.3	418.1	128.0	4.0	16.7	C/B	GB	4.3			798.0	4.8	30	6.1	2.0
Charles and the constraints	60.2	11.8	3.7	4.6	82.4	37.8	30.8	45.7	8.3	18.7	4.4	4.8	8.0	8.4	28.1	38.8	28.8	38.0	967.4	222.0	45.4	70.0	40.4	41.0	18.8	30.8	0.3	0.3	228.3	127.8	0.0	91.8	4.4	23	4.8	0.0	504.8	796.6	1 44	24	3.0	3.2
Parties Screened from City Con-	213.2	10.8	6.8	3.1	16.0	36.3	80.8	63.6	23.3	28.1	6.3	6.6	6.1	4.0	31.0	36.6	41.8	80.8	166.0	136.3	41.1	86.5	63.6	38.3	48.0	28.8	0.4	0.3	308.2	130.0	30.8	91.8	C.B	6.7	1.8	6.3	ARE 7	1108.8	1.0	4.8	3.8	3.3
Contractor from the tractor (FE INCL)																																					1		()			

Attachment 3 Orange County Major Rock Type by Natural Community

			Pledmont Us	oland Forests			Pledmont C	Den Upland	Pied	mont Alluviai We	tiand	Nonalluvi	al Wetland
		Mosic			Sub-serio		Shrubby	Poorly-drained	Large river		Small stream	Depression	Seep
	Mesic	Basis	Dry-Week	Basic	Dry	Pledmont	Pledmont	Xeric	Pledmont	Pledmont	Pledmont	Upland	Low
Major Rock Type	Mbood HW	Mesic	Oak-Hokory	Oak-Hokory	Oak-Hokory	Monadnook	Heath Bluff	Herdpen	<u>Bottomland</u>	Levee	Alloylet	Depr Swemp	Envator Seco
Allovium	x	x							x	x	x		
Triassic Sediments (braided stream deposits)			x	x	x								
Diabase (Jurassic)		x		x				x				x	
1 - Altered Tuffs (hydrothermal alteration; high sulfidation)	x		x		x	x	x						
2 - Epidestic Rocks (sedimentary volcanic/plutonics)	x	x	x	x	x	x	x	x				x	
3 - Felsic Tuffs (volcanic ash)	x		x		x	x	x						
4 - Felsic Lavas & Tuffs - dacite domes (viscous)	x		x		x	x	x						
5 - Mafic Laves & Tuffs - andesite to baselt (less viscous)		x		x				x				x	
6 - Felsic Plutonic Rocks	x		x		x	x	x						
7 - Intermediate Plutonic - diorite	x	x	x	x	x	x							
8 - Mafic Plutonic - gabbro wiminor ultramafic		x		x				x				x	

Soil series assumptions:
Altorium - Altarista, Cheweda, Congaree
Trissels: Creedmon; White Store
Disbase - Erns, Hoell, Lloyd, Willian (Lloyd very weathered; old terraces)
Altered Tufs - Georgeville, Goldston, Herndon, Tarrus
Epidaede Roda - Escludes Albuvium, Trissels
Epidaede Roda - Escludes Albuvium, Trissels
Lightum, Tarrus
Maric Laves and Tufs - Georgeville, Goldston, Herndon,
Lightum, Tarrus
Maric Laves and Tuffs - Oe; Wateree, Wedowee
Intermedate Plutoric - Helane, Helens-Sedgeffeld,
Olarook Vance

Orange, Vance
Mafic Plutonic - Enon, Iredell, Lloyd, Wilkes (Lloyd very weathered; old terraces)

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Sol Survey Staff, Natural Resources Conservation Service, United States Department of Agriculture. Web Sol Survey. Available or file at http://www.ncrhip.org/.

Attachment 4 Orange County Soil Series by Community

	Pie	dmont Mesic For	rests		Ple	dmont Oak Fore	osts		Pled. Barrens	Nonalluvi	d Wettends	Pi	admont Floodpia	ins	
			Орып сапору							Depression	Soop	Small stream	Large river		
	Meste	Basic	Pledmont	Dry-Mesic	Dry-Mosic Basic	Dry	Dry Basic	Pledmont	Xarie	Upland	Low	Pledmont	Pledmont	Piedmont	Total
Soil Series	Mixed HW	Mexic	Heeth Bluff	Owk-Hickory	Oak-Hickory	Oak-Hickory	Oak-Hickory	Monadnock	Hardpan	Depr Swamp	Elevation Seep	Altorial	Levee	Bottomland	Soil Se
Cavista	X											×		X	- 3
ppling				X		X									2
edi				X		X									2
hermacia		X										×	X	X	4
oncaree	X											×	X	X	- 4
reedmoor				X		X									2
non .		X			X		X								8
eorgeville				×		X		X							3
oldeton			X			X		X							3
elera	×	X													2
elens-Sedgefield	X	X													2
emdon				×		X		×							3
edell							X		X	X					3
gnum						X									- 1
oyd (Hwassee)	X			X											2
rance						X	X								2
errus (Tatum)	X		X	X		X		X							- 5
ance.				X	X										2
steree (Louisburg)	X			X		X									8
edowee	X		X	X		X		×							5
hite Store					X		X								2
Alkes		X			X		X								3
otal by Community			9	10	4	44								9	81



Sources: ClearStration of the Natural Communities of North Cercline, 3nd Approximation, Schebie and Vilvatiley, 1990.
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Attachment 5a Piedmont Mesic Forest Flora

Scientific Name	Common Name	Family	Mesic Mixed HW	Basic Mesic	Pledmont Heath Bluff
Dominant Trees:					
Acer floridanum	Southern Sugar Maple	Sapindaceae		Х	
Acer rubrum	Red Maple	Sapindaceae	x		
Acer saccharum	Sugar Maple	Sapindaceae	X		
Celtis laevigata	Southern Hackberry	Cannabaceae		x	
agus grandifolia	American Beech	Fagaceae	X	X	¥
raxinus americana	White Ash	Oleaceae		X	-
	Black Walnut			x	
Jugians nigra Liriodendron tulipifera	Tulp-tree	Jugiandaceae Magnoliaceae	¥		
Pinus taeda	Lobioly Pine	Pinaceae	^	^	×
Pinus virginiana	Virginia Pine	Pinaceae			x
Quercus alba	White Oak	Fagaceae			×
Quercus montana	Chestnut Oak	Fagaceae			x
Quercus nigra	Water Oak	Fagaceae	×		
Quercus rubra	Red Oak	Fagaceae	×	X	
Quercus shumardii	Shumard Oak	Fagaceae		x	
Understory Trees:					
Acer rubrum	Red Maple	Sapindaceae	X		¥
Amelanchier arborea	Downy Serviceberry	Rosaceae			¥
Asimina triloba	Pawpaw	Annonaceae		¥	
Carpinus caroliniana	Ironwood, American Hombeam	Betulaceae	_	×	
Cercis canadensis	Eastern Redbud	Fabaceae	_	×	
Comus florida	Flowering Dogwood	Comaceae	x	x	
lex opaca	American Holly	Aquifoliaceae	x		
Ostrya virginiana	American Hop-hombeam	Betulaceae	X	X	
Dxydendrum arboreum	Sourwood	Ericaceae			x
Jimus rubra	Slippery Elm	Ulmaceae		X	
Shrubs:	Painted Buckeye	Sapindaceae		¥	
Aesculus sylvatica	Sweet Shrub				
Calycanthus floridus		Calycanthaceae		x	
Euonymus americanus	Strawberry-bush	Celastraceae	x		
Euonymus atropurpureus	American Wahoo	Celastraceae		x	
Hamamelis virginiana	Northern Witch-hazel	Hamamelidaceae			x
Hydrangea arborescens	Smooth Hydrangea	Hydrangeaceae		X	
Kalmia latifolia	Mountain Laurel	Ericaceae	x		X
Indera benzoin	Spicebush	Lauraceae		x	
Rhododendron catawbiense	Catawba Rhododendron	Ericaceae			X
Rhododendron maximum	Great Laurel	Ericaceae			x
Staphylea trifolia	Bladdemut	Staphyleaceae		Y	
Styrax grandifolius	Bigleaf Snowbell	Styracaceae		x	
/accinium pallidum	Hilside Blueberry				Y
		Ericaceae			_
/accinium stamineum	Deerberry	Ericaceae	X		¥
/ibumum rafinesquianum	Downy Arrow-wood	Additaceae	X		
/lbumum spp.		Adoxaceae		X	
Herbs: Actaea pachypoda	Doll's-eyes	Ranunculaceae		x	
Actaea pacnypoda Actaea racemosa			_	<u> </u>	
	Common Black Cohosh	Ranunculaceae			
diantum pedatum	Northern Maldenhair	Pteridaceae		X	
vnemone americana	Round-lobed Hepatica	Ranunculaceae	X	x	
iquilegia canadensis				×	
sarum canadense	Common Wild Ginger	Aristolochiaceae		X	
Rotrypus virginianus	Rattlesnake Fem	Ophiogiossaceae	x		
Cardamine angustata	Eastern Siender Toothwort	Brassicaceae	X		
ardamine concatenata	Cutleaf Toothwort	Brassicaceae		×	
Chamaelirium luteum	Devi's Bit	Heioniadaceae	x		
himaphila maculata	Pipsissewa	Ericaceae			x
Corydalis flavula	Short-spurred Corydalis	Fumariaceae		¥	
	Large Yellow Lady's Slipper	Orchidaceae		÷	

Delphinium tricome	Dwarf Larkspur	Ranunculaceae		X	
Dicentra cucullaria	Dutchman's Britches	Furnariaceae		X	
Enemion bitematum	False Rue-anemone	Ranunculaceae		X	
Epifagus virginiana	Beechdrops	Orobanchaceae	x		
Epigaea repens	Trailing Arbutus	Ericaceae			x
Erythronium umbilicatum spp	Dimpled Trout Lily	Lillaceae	×		
Galax urceolata	Galax	Diapensiaceae			x
Gallum circaezans	Southern Forest Bedstraw	Rublaceae	X		
Gaultheria procumbens	Wintergreen	Ericaceae			x
Geranium maculatum	Wild Geranium	Geraniaceae	x		
Heuchera americana	American Alumroot	Saxifragaceae	x		
Hexastylis artfolia	Little Brown Jug	Aristolochiaceae	X		
Hexastylis minor	Little Heartleaf	Aristolochiaceae	x		x
Hexastylis virginica	Virginia Heartleaf	Aristolochiaceae	x		
Hybanthus concolor	Green-violet	Vlolaceae		X	
Hylodesmum nudiflorum	Naked Tick-trefoll	Fabaceae	x		
Lathyrus venosus	Forest Pea	Fabaceae		x	
Menispermum canadense	Moonseed	Menispermaceae		x	
Mitchella repens	Partridge-berry	Rublaceae			x
Panax quinquefolius	American Ginseng	Arallaceae		x	
Panicum spp.			x		
Podophyllum peltatum	May-apple	Berberidaceae	x	x	
Polystichum acrostichoides	Christmas Fern	Dryopteridaceae	x	x	
Prenanthes serpentaria	Lion's Foot	Asteraceae	x		
Sanguinaria canadensis	Bloodroot	Papaveraceae		X	
Stellaria pubera	Star Chickweed	Caryophyllaceae	x		
Tiarella cordifolia	Foamflower	Saxifragaceae	x	x	
Trillum cuneatum	Sweet Betsy	Trillaceae		X	
Viola spp.	Vloiet	Vlolaceae	x	x	

Color Key:

tan 3rd Approximation
blue 3rd and 4th Approximations

bold fork Bold for represents a dominant community plant species.

Sources:

Lissations of the Natural Communities of North Carolina, 3nd Approximation, Schafele and Weekley, NC Natural Heritage Program, Division of Par

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Attachment 5b Piedmont Oak Forest Flora

r Maple rack Hickory bank Hickory beny beny beny beny d d d stood r ddar hombwam	Juglandacese Juglandacese	198	X	X
bark Hickory bark Hickory bark Hickory bary bary bary bary bary bary bary ba	Juniardoses Jugiardoses Hagardoses Hagardoses Fraces	198	X	X
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Attachment 5c Other Upland Flora

Scientific Name

Common Name

Dominant Trees:					
Carya carolinae-septentrionalis	Ceroline Shegbark Hickory	Juglandaceae	¥	×	
Cerye glebre	Pignut Hickory	Juglandaceae	- 0	_ ^	
Caryo ovata	Common Shagbark Hickory	Juglandaceae	_	v	
Fraxinus americana	White Ash	Oleaceae		_	
Liquidember styrecifiue	Sweet Gum	Altingiaceae	×	· ·	
Liriodendron tulipifera	Tulip-tree	Magnoliaceae		Ŷ	
Pinus echinata	Shortleaf Pine	Pinaceae	×	_	
Pinus virginiene	Virginia Pine	Pinaceae	x		
Quercus alba	White Oak	Fagaceae	x		
Quercus bicolor	Swamp White Oak	Fagaceae	_ ^		
		Facessee			
Quercus lyrete	Overcup Oak	Fagaceae			
Quercus merilandica	Bleckjeck Oek Besket Oek	Fagaceae			
Quercus michauxii Quercus phelios	Water Oak	Fagaceae		ž.	
Quercus priestos Quercus rubra	Red Oak	Fagaceae	x	^	X
		Fagaceae	V		
Quercus stellata	Post Oak	Fagaceae	^	X	
Understand Town					
Understory Trees:	01-0-14-1-	Barrie dans con			
Acer leucoderme	Chalk Maple	Sapindaceae	×		
Acer rubrum	Red Maple	Sapindaceae		X	X
Cercis canadensis	Eastern Redbud	Fabaceae	X		
Chionenthus virginicus	Fringe-tree	Oleaceae	X		
Diospyros virginiana	American Persimmon	Ebenaceae	X		
Juniperus virginiana	Eastern Red Cedar	Cupressaceae	×		
Linders benzoin					X
Nysse biffore	Swamp Tupelo	Nyssaceae		×	
Ulmus elete	Winged Elm	Ulmaceae	×		
Vaccinium arboreum	Farkleberry	Ericaceae	×		
Shrubs:					
Cephalanthus occidentalis	Buttonbush	Rubiaceae		×	
llex decidua	Possum-haw	Aquifoliscese		X	
Rhus aromatica	Fragrant Sumec	Anacardiaceae	×		
Symphoricarpos orbiculatus	Corelberry	Caprifoliaceae	×		
Vaccinium corymbosum	Smooth Highbush Blueberry	Ericaceae		×	
Veccinium fuscatum	Hairy Highbush Blueberry	Ericaceae		×	
Vaccinium pallidum	Hillside Blueberry	Ericaceae	×		
Vaccinium stamineum	Deerberry	Ericaceae	×		
Viburnum cassinoides		Adoxaceae			¥
Viburnum dentatum	Arrow-wood	Adoxacese		×	
Viburnum nudum	101011111111111111111111111111111111111	Adoxaceae			¥
Viburnum prunifolium	Black Haw	Adoxaceae	¥		
Vibumum rafinesquianum	Downy Arrow-wood	Adoxaceae	¥		
Vines:					
Vines:	Trumpet creater	Biopopiaceae		- v - I	
Campsis radicans	Trumpet-creeper	Bignoniaceae		x	
Cempsis redicens Parthenocissus quinquefolia	Virginia-creeper	Vitaceae	×	×	
Cempsis redicens Parthenocissus quinquefolia Toxicodendron redicers	Virginia-creeper Poison Ivy	Vitaceae Anacardiaceae	×	X X	
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Upland Low Elevation Depression Swamp Scop

tan	3rd Approximation	
blue	3rd and 4th Approximations	
purole	4th Approximation	
hold ford	Bold foot represents a dominant comm	unity plant appeals

Sources:
Classification of the Natural Communities of North Caroline, 3nd Approximation, Schafele and Weekley, NC Natural Heritage Program, Division of Parks and Recreation, DENR, 1990.
Fina of the Southern and Mid-Atlantic States. Alan S. Weekley. UNC Herbanium, NCSG, UNC Chancel HIII, May 2011.
Guide to the Natural Communities of North Caroline, 4th Approximation, Michael P. Schafele, NC Natural Heritage Program, DENR, March 2012.

Attachment 5d Piedmont Floodplain Flora

			Pledmont	Pledmont	Pledmort
Scientific Name	Common Name	Family	Alluvial	Levee	Bottomland
Dominant Trees:	Box Elder	Sapindaceae		X	¥
Acer negundo Acer rubrum	Red Maple		x	×	
Betula nigra	River Birch	Sapindaceae Betulaceae	X X	x	
Carya cordiformis	Bittemut Hickory	Jugiandaceae	X	X	x
Carya ovata	Shagbark Hickory	Juglandaceae	x	x	x
Celts laevigata	Southern Hackberry	Cannabaceae	x	X	x
Fagus grandfola	American Beech	Fagaceae	-		÷
Fraxinus pennsylvanica	Green Ash	Oleaceae	x	¥	×
Jugians nigra	Black Walnut	Jugiandaceae	x	x	
Liquidambar styradifua	Sweet Gum	Altinglaceae	x	X	¥
Liriodendron tulipifera	Tulp-tree	Magnolaceae	X	X	x
Pinus taeda	Lobioly Pine	Pinaceae			x
Platanus occidentalis	Sycamore	Platanaceae	x	X	_
Quercus alba	White Oak	Fagaceae			X
Quercus imbricaria	Shingle Oak	Fagaceae	X		
Quercus lyrata	Swamp White Oak	Fagaceae			X
Quercus michauxii	Basket Oak	Fagaceae		x	×
Quercus nigra	Water Oak	Fagaceae			×
Quercus pagoda	Cherrybark Oak	Fagaceae		x	×
Quercus phelios	Water Oak	Fagaceae			×
Ulmus americana	American Elm	Ulmaceae	x	¥	×
			_		
Understory Trees:					
Acer fordanum	Southern Sugar Maple	Sapindaceae	x		¥
Acer negundo	Box Elder	Sapindaceae	x	X	-
Acer rubrum	Red Maple	Sapindaceae	x		×
Asimina trioba	Pawpaw	Annonaceae	X X	x	X
Carpinus caroliniana	Ironwood, American Hombeam	Betulaceae	x	x	Ŷ
Comus florida	Flowering Dogwood	Comaceae			×
llex decidua	Possum-haw	Aguifoliaceae			
llex opaca	American Holly	Aguifoliaceae	x	X	×
men opoco	r Circurati i rong	/ April December			
Shrubs:					
Aesculus sylvatica	Painted Buckeye	Sapindaceae	¥	x	¥
Arundinaria gigartea	Glant Cane	Poaceae	-	X	x
Comus amomum	Silky Dogwood	Comaceae	x		-
Corylus comuta	Beaked Hazelnut	Betulaceae	x		
Eubotrys recurva	Mountain Fetterbush	Ericaceae	X		
Euonymus americanus	Strawberry-bush	Celastraceae	x		¥
Lindera benzoin	Spicebush	Lauraceae	×	¥	-
Xanthorhiza simplicissima	Yellowroot	Ranunculaceae	X ×	X	
Authorities simplicasing	1 CHORDOX	rualur Luigicat			
Vines:					
	Crossvine	Clonoplacese			¥
Bignonia capreciata		Bignoniaceae	x	X	X
Campsis radicans Manisparroum canadanna	Trumpet-creeper Moonseed	Bignoniaceae		X	x
Menispermum canadense		Menispermaceae	X		
Parthenocissus quinquefolia		Vitaceae	X	X	¥
Smilax spp.	Greenbrier Boloop bas	Smilacaceae	x	X X	¥
Toxicodendron radicans	Poison Ny	Anacardiaceae	x		X
Vitts spp.	Wild Grape	Vitaceae	X	X	¥
Herber.					
Herbs:		February	-		
Amphicarpaea bracteata	Hog-peanut	Fabaceae	X		*
Arisaema triphyllum	Small Jack-In-the-Pulpit	Araceae	X		x
Asarum canadense Boehmeria cylindrica	Common Wild Ginger False Nettle	Aristolochiaceae Urticaceae	x	x	x

Botrypus virginianus	Ratiesnake Fem	Ophlogiossaceae	X	X	X
Carex laxiflora	Sedge	Cyperaceae	X		
Carex lupulina	Hop Sedge	Cyperaceae			X
Carex spp.	Sedge	Cyperaceae			x
Carex tribuloides	Sedge	Cyperaceae			×
Chasmanthium latifolium	River Cats	Poaceae		X	×
Chasmanthium laxum	Siender Spikegrass	Poaceae	x	x	x
Claytonia virginica	Southern Spring-beauty	Montfaceae	x	x	
Clematis virginiana	Virgin's Bower	Ranunculaceae		X	
Corydails flavula	Short-spurred Corydalls	Furnariaceae	X	x	
Cryptotaenia canadensis	Honewort	Aplaceae	x		¥
Dichanthelium boscii	Bosc's Witch Grass	Poaceae			×
Dichanthellum caerulescens	Blue Witch Grass	Poaceae	X		
Dichanthelium laxiflorum	Open-flower Witch Grass	Poaceae			×
Elymus hystrix	Common Bottlebrush Grass	Poaceae	x	x	
Elymus virginicus	Common Eastern Wild-rye	Poaceae	x	x	X
Erythronium umblicatum spp	Dimpled Trout Lily	Lilaceae	X		
Eurybia divaricata	Common White Heart-leaved Aster	Asteraceae	X	X	¥
Geum canadense	Strawberry?	Rosaceae	x		
Glyceria striata	Fowl Mannagrass	Poaceae			X
Hexastylis arffolia	Little Brown Jug	Aristolochiaceae			×
Hypericum hypericoides	St. Andrew's Cross	Hypericaceae			X
Impatiens capensis	Orange Jewelweed	Hydrangeaceae	x		
Juncus effusus	Common Rush	Juncaceae			×
Micranthes virginiensis	Early Saxifrage	Saxfragaceae		x	
Mitchella repens	Partridge-berry	Rubiaceae			X
Osmorhiza longistylis	Anise-Root	Aplaceae		x	
Packera aurea	Golden Ragwort	Asteraceae	¥		x
Persicaria virginiana	Jumpseed	Polygonaceae	X		N
Polygonatum biflorum	Small Solomon's-seal	Ruscaceae			X
Polystichum acrostichoides	Christmas Fem	Dryopteridaceae	x		x
Rudbeckia laciniata	Common Cutleaf Coneflower	Asteraceae		x	
Saururus cemuus	Lizard's Tall	Saururaceae			×
Sedum tematum	Mountain Stonecrop	Crassulaceae	x	x	
Solidago caesia	Axillary Goldenrod	Asteraceae	x	x	x
Stellaria pubera	Star Chickweed	Caryophyllaceae	x	x	
Uvularia sessilifolia	Staw-lly	Colchicaeae	X		
Verbesina alternifolia	Common Wingstern	Asteraceae	x	x	

Invasion by:						
Ligustrum sinense	Chinese Privet	Cleaceae		X		
Lonicera japonica	Japanese Honeysuckie	Caprifollaceae	X	X	¥	
Microstegium vimineum	Japanese Stit-grass	Poaceae	X	X	Y	

Color Key.

COUNTY LINES.	
tan	3rd Approximation
blue	3rd and 4th Approximations
purole	4th Approximation
orange font	Orange font represents the bottomiand low subtype.
red font	Red fort represents the bottomiand high subtype.
bold fort	Bold font represents a dominant community plant spec

Sources: Clausifica

Classification of the Natural Communities of North Canolina. Ind Approximation. Schedule and Wessley. MC Natural Harbace Process. Division of Parks and Recreation. DENR. 19
Flore of the Southern and Michelands States, Alen S. Wessley, UNC Harbarism, MCRG, UNC Chaptel Hall, May 2011.

Colds to the Manife Communities of Michel Canolina. A Approximation Methods of Southern Modern Communities (Michel Canolina). Manifest Canolina (Michel Canolina). Manifest Colorina (Michel Canolina).

Attachment 6a

Piedmont Flora by Natural Community MESIC MIXED FOREST - CEGL008465

Dominant Trees: Fagus grandifolia Quercus rubra Red Oak Uriodendron tulipifera Acer rubrum Eastern Red Maple Carya glabra Quercus alba Frazinus americana White Oak Frazinus americana White Oak Carya tomentosa Uquercus velutina Black Cak Carya tomentosa Mockernut Hickory Black Cak Carya tomentosa Mockernut Hickory Black Cak Carya tomentosa Mockernut Hickory Blaternut Hickory Blaternut Hickory Understory Trees: Acer rubrum Coryadondrum arboreum Coryadondrum arboreum Sourvood Cornus Rerida Flowering Dogwoot Rev opaca American Holly Nyssa sylvatica Mous rubra Red Mulberry Prunus serotina Black Cherry Carpinus carofiniana American Horibes Cercis canadensis Eastern Redbud Chioranthus virginicus Fringe-tree Euonymus americanus Strawberny-bush Vaccinium pallidum Hillside Blueberry Viburnum acerifolium Rhododendron perichymenoides Wahrubra Harmanelis virginiana Northern Witch-hat Kahria tatifolia Vaccinium stamineum Common Deerbern Viburum rafinesqueanum Downy Arrow-woot Vines: Muscadine Siestern Redon Nursanine Common Deerbern Viburum rafinesqueanum Downy Arrow-woot Vines: Muscadine Siestern Rejoson Ny Bignonia capreolata Coral honeysuckle Lonicera sempervirens Coral honeysuckle Celstern Piosinsewa Malanthemum racemosum Eastern Solomon's Eastern Solomon's	100% 100%
Quercus rubra Liriodendron tulipifera Liriodendron tulipifera Liriodendron tulipifera Tulip-tree Carya glabra Carya glabra Vinte Oak Fraxinus americana Liquidambar styraciflus Sweet Gum Quercus velutina Black Oak Carya tomentosa Mockernut Hickory Ditternut Hickory Bitternut Hickory Bitternut Hickory Bitternut Hickory Understory Trees: Acer rubrum Carya cordiformis Bitternut Hickory Bitternut Hickory Understory Trees: Acer rubrum Sourvood Cornus Rorich Flowering Dogwoor Rox opaca American Holly Nyssa sylvatica Black Cherry Carpinus caroliniana American Horbe Carya caroliniana American Horbe Carrios canadensis Eastern Redbud Fringe-tree Shrubs: Euonymus americanus Strawberry-bush Vaccinium pallidum Hilbide Blueberry Viburumum pallidum Hilbide Blueberry Viburumum pallidum Hilbide Blueberry Viburumum pallidum Southern Black Haw Calycanthus Rioridus Viburumum prindidum Southern Black Haw Calycanthus Rioridus Viburumum prindidum Southern Black Haw Hamamerika virginiana Northern Witch-hau Kalmia latifolia Vaccinium stamineum Common Deerberry Viburum rafinesqueanum Downy Arrow-wood Vines: Fastern Poison Ny Bignonia capreolata Cross-vine Corsi sempervirens Coral honeysuckle Herbs: Crirraphila maculata Maianthentum racemosum Eastern Solomon's Eastern Solomon's Eastern Poison Ny Bignonia capreolata Corsi Serien Poison Ny Bignonia Capreolata Cor	100% 85% Moderately Abundant 100% Moderately Abundant 100% Moderately Abundant 100%
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Euonymus americanus Strawtierny-bush Ascorinum palifotum Majeleaf Viburnun Abodoendron periofymenoides Wild Azalea Alburnum acerifotum Majeleaf Viburnun Abodoendron periofymenoides Wild Azalea Alburnum prunifotum Sweet-shrub Alburnum rufidulum Southem Black Haw Alburnum rufidulum Southem Black Haw Alburnum rufidulum Southem Black Haw Asmanelis virginiana Northem Witch-hau Asmanelis virginiana Northem Witch-hau Calmia latfolia Mountain Laurel Ascorinum stamineum Common Deerbern Aburnum rafinesqueanum Downy Arrow-wood Aburnum rafinesqueanum Downy Arrow-wood Aburnum rafinesqueanum Virginia-creeper Tentenocissus quinquefotia Muscadine Smikax spp. Greenbrier Virginia-creeper Tentenocissus quinquefotia Castern Poison Ivy Bignonia capreolata Cross-vine Coral honeysuckle Ceris sempervirens Coral honeysuckle Ceris Ceris Pipsissewa Eastern Solomon's Eastern Solomon's Eastern Solomon's Ceris Cer	S69% Occasional to Locally Abu 44% 33% 33% 33% 22% 22% 22% 11% 11% 11% 4 11% 4 11% 4 11% 4 11% 4 11% 4 11% 4 11% 4 11% 4 11% 4 10% 6 89% 67% Medicately Abundant 56% Cocasional to Locally Abu
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Asacainium patiliotum Hilliaide Blueberry Aburnum aceritolium Mapleleaf Viburnum Abudodendron periotymenoides Mid Azalea Black Haw Zelycanthus Rioridus Sweet-shrub Aburnum rufidulum Southern Black Ha Asmanelis virginiana Northern Witch-hau Kalmia latifolia Mountain Laure Ascorinium stamineum Common Deerberry Aburnum rafinesqueanum Downy Arrow-wood Filmes: Muscadinia rotundifolia Muscadine Smilax spp. Greenbrier Territoriossus quinquefolia Virginia-creeper Territoriossus quinquefolia Cross-vine Coral honeysuckle Territoriossus Territor	S69% Occasional to Locally Abu 44% 33% 33% 33% 22% 22% 22% 11% 11% 11% 4 11% 4 11% 4 11% 4 11% 4 11% 4 11% 4 11% 4 11% 4 11% 4 10% 6 89% 67% Medicately Abundant 56% Cocasional to Locally Abu
### ### ### ### ### ### ### ### ### ##	m 44% 33% 33% 33% 22% 22% 22% 22% 22% 22% 22
Rhododendron periclymenoides Rhournum prunifolium Black Haw Bouthern Black Haw Common Deerbern Bown Arrow-wood Bown Arrow-wood Brack Polymon Arrow-wood Brack Polymon Black Haw Brack	33% 33% 33% 22%
Albumum prunifolium Calycanthus floridus Sweet-shrub Abumum rufidulum Southern Black Har Southern Black Har Southern Black Har Mountain Lauri Accinium stamineum Common Deerbern Abumum rafinesqueanum Downy Arrow-wood Filmes: Muscadine Greenbrier Parthenocissus quinquefolia Toukoodendron radicans Eastern Poison Ny Signoria capredata Cross-vine Coral honeysuckle Veriman-radicans Eastern Poison Ny Signoria capredata Cross-vine Coral honeysuckle Verimaphila maculata Advanthenum racemosum Eastern Solomon's-	33% 22%
Calycanthus floridus Aburnum rufidulum Southern Black Ha Northern Witch-haz Salmia Istifolia Mountain Laurel Accinium stamineum Aburnum rafinesqueanum Downy Arrow-wood Fines: Muscadinia rotundifolia Smillax spp. Greenbrier Parthernocissus quinquefolia Cross-vine Conicadendron radicans Eastern Poison Ivy. Bignonia capreolata Cross-vine Coral honeysuckle derbs: Chimaphila maculata Fipsissewa Eastern Solomon's Carlandremum racemolaum Eastern Solomon's	22% 22% 22% 228 11% 11% 11% 11% 9 11% d 11% 100% Abundant 100% 99% 67% Medicataly Abundant 56% Occasional to Locally Abu
Aburnum rufidulum Southern Black Har Northern Witch-har Kalmanesis virginiana Northern Witch-har Kalmia latifolia Mountain Lauri Mountain Downy Arrow-wood Pilenes: Muscadinia rotundifolia Muscadine Greenbrier Parthenocissus quinquefolia Virginia-creeper roticoderdenon radicans Eastern Poison Inv. Dispinonia capreolata Cross-vine Coral honeysuckle derbs: Cross-vine Coral honeysuckle Pipsissewa Eastern Solomon's Eastern Eas	22% 22el 11% 11% 11% y 11% d 11% 100% Abundant 100% 99% 67% Cossional to Locally Abundant 56% Cossional to Locally Abundant
tamamelis virginiana Aorthem Witch-hau Calmia latifolia Mountain Laurel Accinium stamineum Common Deerberry Riburnum rafinesqueanum Downy Arrow-wood Russadinia rotundifolia Muscadine Trailia y Greenbrier Parthenocissus quinquefolia Virginia-creeper Covicordendron radicans Eastern Poison Ny Signonia capreolata Cross-vine Coral honeysuckle terbs: Eritin Poison Ny Signonia radicans Cross-vine Coral honeysuckle Lerbs: Estern Poison Ny Signonia capreolata Cross-vine Coral honeysuckle Lerbs: Estern Poison Ny Signonia capreolata Cross-vine Coral honeysuckle Lerbs: Estern Signonia Cross-vine Coral honeysuckle Lerbs: Estern Solomon's- Estern Solomon's- Estern Solomon's- Estern Solomon's- Estern Solomon's- Estern Solomon's-	11% 11%
Calmia tatifolia Mountain Laurel Ascoinium stamineum Ascoinium stamineum Ascoinium stamineum Downy Arrow-wood Fines: Auscadinia noturudifolia Muscadine Smilau spp. Greenbrier Parthenocissus quinquefolia Virginia-creeper Toxicodendron radicans Eastern Poison Ivy. Bignonis capreolata Cross-vine Coral honeysuckle Aret b: Chimaphila maculata Fipsissewa Eastern Solomon's Eastern Solomon's	11% y 11% d 11% 100% Abundant 100% 99% 67% Medierately Abundant 56% Occasional to Locally Abu
Vaccinium stamineum Aburnum rafinesqueanum Downy Arrow-wood Aines:	y 11% d 11%
//Burnum rafinesqueanum Downy Arrow-wood	11% 11% 11% 100% Abundant 100%
Vines: Muscadine Smikus spp. Greenbrier Parthenocissus quinquefolia Toxicodendron radicans Bignonis capreolata Conse-vine Coral honeysuckle Herbs: Civinaphila maculata Malanthemum racemosum Eastem Pipsissewa Eastem Solomon's Eastem Solomon's Eastem Solomon's	100% Abundant 100% 89% 67% Moderately Abundant 56% Occasional to Locally Abu
Muscadinia rotundifolia Muscadine Smilax spp. Greenbrier Parthenocissus quinquefolia Virignia-creeper Toxicodendron radicans Eastern Poison Ivy Bignonia capreolata Cross-vine Conicera sempervirens Coral honeysuckle Interbs: Chimaphila macufata Pipsissewa Malanthemum racemissum Eastem Solomon's	100% 89% Moderately Atundan 56% Occasional to Locally Atundan
Muscadinia rotundifolia Muscadine Smilax spp. Greenbrier Parthenocissus quinquefolia Virignia-creeper Toxicodendron radicans Eastern Poison Ivy Bignonia capreolata Cross-vine Conicera sempervirens Coral honeysuckle Interbs: Chimaphila macufata Pipsissewa Malanthemum racemissum Eastem Solomon's	100% 89% Moderately Atundan 56% Occasional to Locally Atundan
Parthenocissus quinquefolia Virginia-creeper Toxicodendran radicans Eastern Poison Ivy Bignonia capreolata Cross-vine Coral honeysuckle Herbs: Chimaphila macufata Pipsissewa Maianthemum racemosum Eastern Solomon's	, 67% Mederately Abundani 56% Occasional to Locally Abu
Toxicodendron radicans Eastern Poison Ivy Bignonia capreolata Cross-vine conicera sempervirens Coral honeysuckle Herbs: Chimaphila maculata Pipsissewa Malanthemum racemosum Eastern Solomon's	/ 67% Moderately Abundani 56% Occasional to Locally Abu
Toxicodendron radicans Eastern Poison Ivy Bignonia capreolata Cross-vine conicera sempervirens Coral honeysuckle Herbs: Chimaphila maculata Pipsissewa Malanthemum racemosum Eastern Solomon's	/ 67% Moderately Abundani 56% Occasional to Locally Abu
Bignonia capreolata Cross-vine Corial honeysuckle Certa sempervirens Corial honeysuckle Certa: Certa	56% Occasional to Locally Abu
Herbs: Chimaphile maculate Pipsissewa Malanthemum racemosum Eastem Solomon's	56%
Chimaphila maculata Pipsissewa Maianthemum racemosum Eastern Solomon's	
Chimaphila maculata Pipsissewa Maianthemum racemosum Eastern Solomon's	
Maianthemum racemosum Eastern Solomon's	89% Abundant
But a state and a second at a title a	-plume 89%
Polystichum acrostichoides Christmas Fern	89%
Tiarella cordifolia Heartleaf Foamflow	
Hexastylis arifolia Little Brown Jug	22% (used Spira's abundance of
Podophyllum peltatum May-apple	11% (used Spira's abundance of
Erythronium umbilicatum Dimpled Trout Lily	
Salium circaezans Southern Forest Be	
tylodesmum nudiflorum Naked Tick-trefoil	78%
olygonatum biflorum Small Solomon's-se	
pifagus virginiana Beechdrops	56% Occasional to Locally Abu
Mitchella repens Partridge-berry	56%
Avularia perfoliata Perfoliate Bellwort	56%
Arisaema triphyllum Common Jack-in-th	he-Pulpit 44%
Botrypus virginianus Rattlesnake Fern	44%
Endodeca serpentaria Turpentine-root	44%
Goodyera pubescens Downy Rattlesnake	
Passiflora lutea Eastern Yellow Pas	
Sanguinaria canadensis Bloodroot	44%
Viola spp. Violet	44%
Anemone americana Round-lobed Hepat	1172
Athyrium asplenioides Southern Lady Ferr	
Chamaelirium kuteum Devil's Bit	33%
Geranium maculatum Wild Geranium	33%
Solidago caesia Axillary Goldenrod	33%
Stellaria pubera Star Chickweed	22%
Thalictrum thalictroides Rue-anemone	22%
Tipularia discolor Cranefly Orchid	22%
Trillium catesbaei Catesby's Trillium	
Eutrochium purpureum Purple-node Joe-py	22%
	22% ve-weed. 11%
	ye-weed. 11%
	ye-weed. 11% 11%
ris cristata Dwarf Crested Iris	ye-weed. 11% 11% 11%
ris cristata Dwarf Crested Iris Melica mutica Two-flower Melic	ye-weed. 11% 11% 11% 11%
ris cristata Dwarf Crested Iris Melica mutica Two-flower Melic Vabalus serpentarius Lion's-foot	ye-weed. 11% 11% 11% 11% 11%
ris cristata Dwarf Crested Iris delica mutica Two-flower Melic vabalus serpentarius Lion's-foot Zardamine angustata Eastern Stender To	ye-weed. 11% 11% 11% 11% 11% 11% 11% 11% 11% 11
ris cristata Dwarf Crested Iris Melica mutica Two-flower Melic Vabalus serpentarius Lion's-foot	ye-weed. 11% 11% 11% 11% 11%

Prepared by Angie Horne 6/11/2013 3:19 PM

Attachment 6b

Piedmont Flora by Natural Community PIEDMONT HEATH BLUFF - CEGL004539

Scientific Name	Common Name	CVS Constancy	Abundance
Dominant Trees:			
Quercus alba	White Oak	75%	Occasional to Locally Abundant
Fagus grandifolia	s grandifolia American Beech		
Quercus montana	Rock Chestnut Oak	50%	
Pinus virginiana	Virginia Pine	0%	
Understory Trees:			
Acer rubrum	Eastern Red Maple	100%	Occasional to Locally Abundant
Oxydendrum arboreum	Sourwood	75%	
Amelanchier arborea	Downy Serviceberry	50%	
Shrubs: Kalmia latifolia	Mountain Laurel	100%	Abundant
Rhododendron catawbiense	Catawba Rhododendron	0%	
Vaccinium pallidum	Hillside Blueberry	50%	Occasional to Locally Abundant
Hamamelis virginiana	Northern Witch-hazel	25%	
Vaccinium stamineum	Common Deerberry	25%	
Herbs:			
Mitchella repens	Partridge-berry	75%	Occasional to Locally Abundant
Galax urceolata	Galax	25%	
Hexastylis minor	Little Heartleaf	25%	
Chimaphila maculata	Pipsissewa	0%	
Epigaea repens	Trailing Arbutus	0%	
Gaultheria procumbens	Wintergreen	0%	

Piedmont Flora by Natural Community DRY-MESIC OAK-HICKORY FOREST - CEGL008475

		cvs	
Scientific Name	Common Name	Constancy	Abundance
Dominant Trees:			
Quercus alba	White Oak	93%	Abundant
Quercus rubra	Red Oak	87%	
Quercus velutina	Black Oak	87%	
Carya glabra Carya tomentosa	Pignut Hickory Mockernut Hickory	80%	
Liriodendron tulipifera	Tulip-tree	60%	Moderately Abundant
Fagus grandifolia	American Beech	67%	Occasional to Locally Abundant
Fraxinus americana	White Ash	67%	,
Liquidambar styraciflua	Sweet Gum	47%	
Pinus echinata	Shortleaf Pine	47%	
Quercus coccinea	Scarlet Oak	47%	
Quercus falcata Quercus phellos	Southern Red Oak Willow Oak	33% 27%	
Quercus prieiros Quercus stellata	Post Oak	27%	
Quercus montana	Rock Chestnut Oak	27%	
Pinus virginiana	Virginia Pine	20%	
Understory Trees:			
Acer rubrum	Eastern Red Maple	93%	Abundant
Comus florida	Flowering Dogwood	93%	
Nyssa sylvatica	Black Gum	87%	
Oxydendrum arboreum	Sourwood	87%	
Prunus serotina	Black Cherry	80%	
Sassafras albidum	Sassafras	80%	
Cercis canadensis	Eastern Redbud	53%	Occasional to Locally Abundant
Diospyros virginiana	American Persimmon	53%	
Juniperus virginiana Ilex opaca	Eastern Red Cedar American Holly	47% 40%	
Chionanthus virginicus	Fringe-tree	27%	
Amelanchier arborea	Downy Serviceberry	20%	
Shrubs: Vaccinium pallidum	Hillside Blueberry	67%	Moderately Abundant
Euonymus americanus	Strawberry-bush	53%	Occasional to Locally Abundant
Vaccinium stamineum	Common Deerberry	47%	, , , , , , , , , , , , , , , , , , , ,
Viburnum prunifolium	Black Haw	33%	
Viburnum rufidulum	Southern Black Haw	33%	
Rhododendron periclymenoides	Wild Azalea	27%	
Viburnum acerifolium Viburnum rafinesqueanum	Mapleleaf Viburnum Downy Arrow-wood	27% 0%	
vioamam rannesqueariam	Downy Anow-wood	078	
Vines: Muscadinia rotundifolia	Muscadine	93%	Abundant
Smilax spp.	Greenbrier	87%	Adundant
Parthenocissus quinquefolie	Virginia-creeper	80%	
Toxicodendron radicans	Eastern Poison Ivy	67%	Moderately Abundant
Lonicera sempervirens	Coral honeysuckle	33%	Occasional to Locally Abundant
Herbs:			
Chimaphila maculata	Pipsissewa	87%	Abundant
Polygonatum biflorum Galium circaezans	Small Solomon's-seal Southern Forest Bedstraw	59%	Occasional to Locally Abundant
Hylodesmum nudiflorum	Naked Tick-trefoil	53% 53%	
Maianthemum racemosum	Eastern Solomon's-plume	53%	
Polystichum acrostichoides	Christmas Fern	47%	
Endodeca serpentaria	Turpentine-root	40%	
Uvularia perfoliata	Perfoliate Bellwort	33%	
Tipularia discolor	Cranefly Orchid	27%	
Asclepias variegata	White Milkweed	20%	
Trillium catesbaei	Catesby's Trillium	13%	
Carex pensylvanica	Sedge Trailing Advisors	13%	
Epigaea repens Futrochium purpureum	Trailing Arbutus	7% 7%	
Eutrochium purpureum Goodyera pubescens	Purple-node Joe-pye-weed. Downy Rattlesnake-orchid	7%	
Hexastylis arifolia	Little Brown Jug	7%	
Hexastylis minor	Little Heartleaf	7%	
Hieracium venosum	Veiny Hawkweed	7%	
Scutellaria incana	Skullcap	7%	
Zizia aurea	Common Golden-Alexanders	7%	
Hexastylis virginica	Virginia Heartleaf	0%	

Prepared by Angle Horne 6/11/2013 3:18 PM

Piedmont Flora by Natural Community DRY OAK-HICKORY FOREST - CEGL007244

		cvs	
Scientific Name	Common Name	Constancy	Abundance
Dominant Trees:			
Quercus alba	White Oak	100%	Abundant
Quercus stellata	Post Oak	50%	
Quercus falcata	Southern Red Oak	43%	
Carya tomentosa	Mockernut Hickory	71%	Moderately Abundant
Quercus velutina	Black Oak	64%	
Quercus montana	Rock Chestnut Oak	57%	Occasional to Locally Abundant
Carya glabra	Pignut Hickory	50%	
Liquidambar styraciflua	Sweet Gum	50%	
Liriodendron tulipifera	Tulip-tree	50%	
Quercus rubra	Red Oak	50%	
Pinus virginiana	Virginia Pine	36%	
Quercus coccinea	Scarlet Oak	36%	
Quercus phellos	Willow Oak	36%	
Pinus echinata	Shortleaf Pine	29%	
Quercus marilandica	Blackjack Oak	14%	
Understory Trees:			
Acer rubrum	Eastern Red Maple	100%	Abundant
Nyssa sylvatica	Black Gum	100%	
Oxydendrum arboreum	Sourwood	93%	
Comus florida	Flowering Dogwood	86%	
llex opaca	American Holly	86%	
Diospyros virginiana	American Persimmon	71%	Moderately Abundant
Prunus serotina	Black Cherry	71%	
Juniperus virginiana	Eastern Red Cedar	57%	Occasional to Locally Abundant
Sassafras albidum	Sassafras	57%	College and the college and th
Vaccinium arboreum	Farkleberry	43%	1
Vaccinium stamineum Vaccinium tenellum Gaylussacia baccata	Common Deerberry Small Cluster Blueberry Black Huckleberry	50% 36% 14%	
Gaylussacia baccata			
Ceanothus americanus	Common New Jersey Tea	7% 7%	
Rhus copallinum	Winged Sumac	770	
Vines:			
Smilax spp.	Greenbrier	93%	Abundant
Muscadinia rotundifolia	Muscadine	86%	
Parthenocissus quinquefolia	Virginia-creeper	71%	Moderately Abundant
Toxicodendron radicans	Eastern Poison Ivy	21%	Occasional to Locally Abundant
Herbs:			
Chimaphila maculata	Pipsissewa Veiny Hawkweed	79% 43%	Moderately Abundant
Hieracium venosum	Naked Tick-trefoil	43% 36%	Occasional to Locally Abundant
Hylodesmum nudiflorum			
Danthonia spicata	Poverty Oat-grass	29% 29%	
Piptochaetium avenaceum	Eastern Needlegrass	2010	
Coreopsis major	Woodland Coreopsis Little Brown Jug	14%	
Hexastylis arifolia		1.4%	
Pteridium aquilinum		,.	
	Eastern Bracken	14%	
	Eastern Bracken Threadleaf Coreopsis	14% 7%	
Epigaea repens	Eastern Bracken Threadleaf Coreopsis Trailing Arbutus	14% 7% 7%	
Coreopsis verticillata Epigaea repens Goodyera pubescens	Eastern Bracken Threadleaf Coreopsis Trailing Arbutus Downy Rattlesnake-orchid	14% 7%	
Epigaea repens Goodyera pubescens Pityopsis graminifolia	Eastern Bracken Threadleaf Coreopsis Trailing Arbutus Downy Rattlesnake-orchid Grass-leaved Golden-aster	14% 7% 7% 7% 7%	
Epigaea repens Goodyera pubescens Pityopsis graminifolia Schizachyrium scoparium	Eastern Bracken Threadleaf Coreopsis Trailing Arbutus Downy Rattlesnake-orchid Grass-leaved Golden-aster Common Little Bluestem	14% 7% 7% 7% 7% 7% 7%	
Epigaea repens Goodyera pubescens Pityopsis graminifolia Schizachyrium scoparium Scutellaria incana	Eastern Bracken Threadleaf Coreopsis Trailing Arbutus Downy Rattlesnake-orchid Grass-leaved Golden-aster Common Little Bluestem Skullcap	14% 7% 7% 7% 7% 7% 7%	
Epigaea repens Goodyera pubescens Pityopsis graminifolia Schizachyrium scoparium Scutelliaria incana Sericocarpus linifolius	Eastern Bracken Threadleaf Coreopsis Trailing Arbutus Downy Rattlesnake-orchid Grass-leaved Golden-aster Common Little Bluestem Skullcap Narrow-leaf White-topped Aster	14% 7% 7% 7% 7% 7% 7%	
Epigaea repens Goodyera pubescens Pityopsis graminifolia Schizachyrium scoparium Scutellaria incana Sericocarpus linifolius Solidago odora	Eastern Bracken Threadleaf Coreopsis Trailing Arbutus Downy Rattlesnake-orchid Grass-leaved Golden-aster Common Little Bluestem Skullcap Narrow-leaf White-topped Aster Licorice Goldenrod	14% 7% 7% 7% 7% 7% 7% 7% 7%	
Epigaea repens Goodyera pubescens Pityopsis graminifolia Schizachyrium scoparium Scutelliaria incana Sericocarpus linifolius	Eastern Bracken Threadleaf Coreopsis Trailing Arbutus Downy Rattlesnake-orchid Grass-leaved Golden-aster Common Little Bluestem Skullcap Narrow-leaf White-topped Aster	14% 7% 7% 7% 7% 7% 7%	

Attachment 6e

Piedmont Flora by Natural Community MONADNOCK FOREST - CEGL006281

		cvs	
Scientific Name	Common Name	Constancy	<u>Abundance</u>
Dominant Trees:			
Quercus montana	Rock Chestnut Oak	100%	Abundant
Quercus alba	White Oak	100%	Moderately Abundant
Quercus velutina	Black Oak	89%	,
Carva glabra	Pignut Hickory	67%	
Quercus coccinea	Scarlet Oak	67%	MOVE UP?
Pinus echinata	Shortleaf Pine	100%	Occasional to Locally Abundant
Quercus marilandica	Blackjack Oak	56%	,
Quercus stellata	Post Oak	44%	
Carva tomentosa	Mockernut Hickory	33%	
Pinus virginiana	Virginia Pine	33%	
Quercus falcata	Southern Red Oak	11%	
Quercus raicata	Soulielli Red Oak	1176	
Understory Trees:			
Acer rubrum	Eastern Red Maple	100%	Abundant
Oxydendrum arboreum	Sourwood	100%	
Nyssa sylvatica	Black Gum	89%	
Comus florida	Flowering Dogwood	78%	Moderately Abundant
Diospyros virginiana	American Persimmon	67%	
llex opaca	American Holly	67%	
Vaccinium arboreum	Farkleberry	33%	Occasional to Locally Abundant
Shrubs: Vaccinium stamineum Vaccinium pallidum	Common Deerberry Hillside Blueberry	100% 67%	Abundant Moderately Abundant
Vaccinium tenellum	Small Cluster Blueberry	56%	Occasional to Locally Abundant
Gavlussacia baccata	Black Huckleberry	11%	Occasional to Locally Addition
Rhus copallinum	Winged Sumac	11%	
renus copaminum	Winded Surfac	1176	
Vines:			
Smilax spp.	Greenbrier	100%	Abundant
Muscadinia rotundifolia	Muscadine	78%	Moderately Abundant
Toxicodendron radicans	Eastern Poison Ivy	22%	Occasional to Locally Abundant
Herbs:			
Chimaphila maculata	Pipsissewa	89%	Abundant
Hieracium venosum	Veiny Hawkweed	78%	Moderately Abundant
Danthonia spicata	Poverty Oat-grass	56%	Occasional to Locally Abundant
Coreopsis verticillata	Threadleaf Coreopsis	44%	,
Hylodesmum nudiflorum	Naked Tick-trefoil	33%	
Tephrosia virginiana	Virginia Goat's-rue	33%	
Cunila origanoides	Stone-mint	22%	
Baptisia tinctoria	Honesty-weed	11%	
Epigaea repens	Trailing Arbutus	11%	
Solidago odora	Licorice Goldenrod	11%	
Solidago odora Pteridium aquilinum	Eastern Bracken	0%	
Schizachvrium scoparium	Common Little Bluestem	0%	
ocnizacnynum scopanum	Common Little Bluestem	U%	

Piedmont Flora by Natural Community BASIC MESIC FOREST - CEGL008466

Scientific Name	Common Name	CVS Constancy	Abundance
Dominant Trees:			
Iriodendron tulipitera	Tulip-tree	93%	Abundant
agus grandifolia	American Beech	87%	
Quercus rubra	Red Oak	87%	
Acer rubrum Quercus alba	Eastern Red Maple White Oak	87% 87%	Moderately Abundant
avercus alba Darya cordiformis	Bitternut Hickory	80%	
raxinus americana	White Ash	73%	
arya glabra	Pignut Hickory	60%	Occasional to Locally Abundani
cer floridanum	Southern Sugar Maple	53%	
arya tomentosa	Mockernut Hickory	53%	
iquidambar styraciflua	Sweet Gum	53%	
arya ovata	Common Shagbark Hickory	47%	
Celtis laevigata	Southern Hackberry	47%	
uglans nigra	Black Walnut	33%	
luercus shumardii	Shumard Oak	27%	
łagnolia macrophylla	Bigleaf Magnolia	20%	
nderstory Trees: Cornus florida	Flowering Dogwood	93%	Abundant
runus serotina	Black Cherry	93%	
cer rubrum	Eastern Red Maple	87%	
ercis canadensis	Eastern Redbud	87%	
arpinus caroliniana	American Hornbeam	80%	
llmus alata	Winged Elm	73%	Moderately Abundant
llmus rubra	Slippery Elm	73%	
simina triloba	Common Pawpaw	67%	
uniperus virginiana	Eastern Red Cedar	60%	
forus rubra	Red Mulberry	60%	
strya virginiana	American Hop-hornbeam	53%	Occasional to Locally Abundan
cer negundo	Eastern Box Elder	47%	
ex opaca	American Holly	47%	
lyssa sylvatica	Black Gum	47%	
cer leucoderme	Chalk Maple	20%	
uonymus americanus iburnum acerifolium	Strawberry-bush Mapleleaf Viburnum	73%	Abundant Moderately Abundant
indera benzoin	Northern Spicebush	67%	
fiburnum prunifolium	Black Haw	47%	Occasional to Locally Abundan
uonymus atropurpureus	American Wahoo	47%	
orylus americana	American Hazelnut	33%	
esculus sylvatica lydrangea arborescens	Painted Buckeye Smooth Hydrangea	27% 27%	
ambucus canadensis	Common Elderberry	27%	
liburnum rafinesqueanum	Downy Arrow-wood	27%	
iburnum rufidulum	Southern Black Haw	27%	
lamamelis virginiana	Northern Witch-hazel	20%	
alycanthus floridus	Sweet-shrub	13%	
irca palustris	Leatherwood	7%	
hiladelphus inodorus	Appalachian Mock-orange	7%	
taphylea trifolia	Bladdernut	7%	
hysocarpus opulifolius	Eastern Ninebark	0%	
	Eastern Ninebark Bigleaf Snowbell	0% 0%	
tyrax grandifolius			
tyrax grandifolius ines:	Bigleaf Snowbell	0%	About
tyrax grandifolius lines: Parthenocissus quinquefolia	Bigleaf Snowbell Virginia-creeper	100%	Abundant
ityrax grandifolius lines: tarthenocissus quinquefolia oxicodendron radicans	Bigleaf Snowbell Virginia-creeper Eastern Prison by	0% 100% 100%	
tyrax grandifolius ines: tarthenocissus quinquefolia oxicodendron radicans ignonia capreolata	Bigleaf Snowbell Virginia-creeper Eastern Poison Ivy Cross-vine	0% 100% 100% 73%	Abundant Moderately Abundant
tyrax grandifolius ines: terthenocissus quinquefolia oxicodendron radicans ignonia capreolata fuscadinia rotundifolia	Bigleaf Snowbell Virginia-creeper Eastern Poison Ivy Cross-vine Muscadine	100% 100% 100% 73%	Moderately Abundant
tyrax grandifolius ines: arthenocissus quinquefolia oxicodendron radicans ignonia capreolata uscadinia rotundifolia milax spp.	Bigleaf Snowbell Virginia-creeper Eastern Poison Ivy Cross-vine	0% 100% 100% 73%	Moderately Abundant
ines: ines: ines: ineticalistical	Bigleaf Snowbell Virginia-creeper Eastern Poison by Cross-vine Muscadine Greenbrier	100% 100% 100% 73% 73% 67%	Moderately Abundant
tyrax grandifolius ines: terthenocissus quinquefolia oxicodendron radicans ignonia capreolata tuscadinia rotundifolia imilax spp. tenispermum canadense	Bigleaf Snowbell Virginia-creeper Eastern Poison by Cross-vine Muscadine Greenbrier Moonseed	100% 100% 100% 73% 73% 67%	Moderately Abundant Occasional to Locally Abundan
ines: Parthenocissus quinquefolia Parthenocissus qui	Bigleaf Snowbell Virginia-creeper Eastern Poison by Cross-vine Muscadine Greenbrier Moonseed Small Solomon's-seal	0% 100% 100% 73% 67% 20%	Moderately Abundant
ines: Parthenocissus quinquefolia oxicodendron radicans ignonia capreolata fuscadinia rotundifolia millax spp. denispermum canadense lerbs:	Bigleaf Snowbell Virginia-creeper Eastern Poison by Cross-vine Muscadine Greenbrier Moonseed Small Solomon's-seal Christmas Fern	0% 100% 100% 73% 73% 67% 20%	Moderately Abundant Occasional to Locally Abundan
Physocarpus opulifolius Physocarpus opulifolius Phes: Parthenocissus quinquefolia Oxicodendron radicans Rignonia capreolata Rignoni	Bigleaf Snowbell Virginia-creeper Eastern Poison Ivy Cross-vine Muscadine Greenbrier Moonseed Small Solomon's-seal Christmas Fern Eastern Solomon's-plume	0% 100% 100% 73% 73% 67% 20% 100% 100% 93%	Moderately Abundant Occasional to Locally Abundan
ines: Parthenocissus quinquefolia Parthenocissus quinquefolia Parthenocissus quinquefolia Parthenocissus quinquefolia Parthenocissus quinquefolia Parthenocissus Parthenoci	Bigleaf Snowbell Virginia-creeper Eastern Poison by Cross-vine Muscadine Greenbrier Moonseed Small Solomon's-seal Christmas Fern Eastern Solomon's-plume Common Jack-in-the-Publit	0% 100% 100% 73% 73% 67% 20% 100% 100% 93% 80%	Moderately Abundant Occasional to Locally Abundan Abundant
Arrax grandifolius Vines: Parthenocissus quinquefolia Par	Bigleaf Snowbell Virginia-creeper Eastern Poison by Cross-vine Muscadine Greenbrier Moonseed Small Solomon's-seal Christmas Fern Eastern Solomon's-plume Common Jack-in-the-Pulpit Southern Forest Bedstraw	0% 100% 100% 73% 67% 20% 100% 100% 100% 100% 100% 100% 100%	Moderately Abundant Occasional to Locally Abundan
ines: Parthenocissus quinquefolia oxicodendron radicans ignonia capreolata fuscadinia rotundifolia millax spp. denispermum canadense lerbs: lotyqonatum biflorum rotystichum acrostichoides deianthemum racemosum visaema triphylfum salium circaezans	Bigleaf Snowbell Virginia-creeper Eastern Poison by Cross-vine Muscadine Greenbrier Moonseed Small Solomon's-seal Christmas Fern Eastern Solomon's-plume Common Jack-in-the-Publit	0% 100% 100% 73% 73% 67% 20% 100% 100% 93% 80%	Moderately Abundant Occasional to Locally Abundan Abundant
Ciyrax grandifolius Vines: Parthenocissus quinquefolia Parthenocissus quinquefolia Parthenocissus quinquefolia Parthenocissus quinquefolia Parthena canadense Parthe	Bigleaf Snowbell Virginia-creeper Eastern Poison Ivy Cross-vine Muscadine Greenbrier Moonseed Small Solomon's-seal Christmas Fern Eastern Solomon's-plume Common Jack-in-the-Pulpit Southern Forest Bedstraw Perfoliate Bellwort	0% 100% 100% 73% 73% 67% 20% 100% 100% 100% 93% 80% 73% 73%	Moderately Abundant Occasional to Locally Abundan Abundant
Arrax grandifolius Vines: Parthenocissus quinquefolia Oxicodendron radicans Bignonia capreolata Auscadinia rotundifolia Crillax spp. Alenispermum canadense Berbs: Berbygonatum biflorum Bolyatichum acrostichoides Asianthemum racemosum Asianthemum rac	Bigleaf Snowbell Virginia-creeper Eastern Poison Ivy Cross-vine Muscadine Greenbrier Moonseed Small Solomon's-seal Christmas Fern Eastern Solomon's-plume Common Jack-in-the-Pulpit Southern Forest Bedstraw Perfoliate Belliwort White Avens	0% 100% 100% 73% 73% 67% 20% 100% 100% 93% 80% 73% 67%	Moderately Abundant Occasional to Locally Abundan Abundant

Prepared by Angie Horne 6/11/2013 2:12 PM

Attachment 6g

Piedmont Flora by Natural Community DRY-MESIC BASIC OAK-HICKORY FOREST - CEGL007232

Scientific Name	Common Name	CVS Constancy	Abundance
Dominant Trees:	lug in only	40000	
Quercus alba	White Oak Red Oak	100% 91%	Abundant
Quercus rubra Acer floridanum	Southern Sugar Maple	73%	Moderately Abundant
Carya tomentosa	Mockemut Hickory	73%	Moderatery Abundant
Carya glabra	Pignut Hickory	64%	
Quercus velutina	Black Oak	64%	Occasional to Locally Abundant
Liriodendron tulipifera	Tulip-tree	55%	
Fraxinus americana	White Ash	55%	
Carya carolinae-septentrionalis	Carolina Shagbark Hickory	46%	
Liquidambar styraciflua	Sweet Gum	46%	
Carya ovalis	Red Hickory	36%	
Carya cordiformis	Bitternut Hickory	27%	
Carya ovata	Common Shagbark Hickory	18%	
Magnolia tripetala	Umbrella Magnolia	18%	
Pinus echinata	Shortleaf Pine	18%	
Juglans nigra	Black Walnut	9%	
Celtis laevigata	Southern Hackberry	0%	
Understory Trees:			
Cornus florida	Flowering Dogwood	100%	Abundant
Cercis canadensis	Eastern Redbud	82%	
Prunus serotina	Black Cherry	82%	
Acer rubrum	Eastern Red Maple	64%	Moderately Abundant
Diospyros virginiana	American Persimmon	55%	Occasional to Locally Abundan
Nyssa sylvatica	Black Gum	55%	Committee to Colony Publisher
Ulmus alata	Winged Elm	46%	
Asimina triloba	Common Pawpaw	36%	
Juniperus virginiana	Eastern Red Cedar	36%	
Ostrya virginiana	American Hop-hornbeam	27%	
Chionanthus virginicus		18%	
	Fringe-tree Parsley Hawthorn	9%	
Crataegus marshallii Acer leucoderme	Chalk Maple	0%	
Acer reucoderme	Спаж марге	U76	
Shrubs:			
Euonymus americanus	Strawberry-bush	55%	Occasional to Locally Abundan
Vaccinium stamineum	Common Deerberry	36%	
Viburnum prunifolium	Black Haw	36%	
Callicarpa americana	Beautyberry	18%	
Frangula caroliniana	Carolina Buckthorn	18%	
Viburnum acerifolium	Mapleleaf Viburnum	18%	
Viburnum rufidulum	Southern Black Haw	18%	
Aesculus sylvatica	Painted Buckeye	9%	
Rhus aromatica	Fragrant Sumac	9%	
	Downy Arrow-wood	9%	
Viburnum rafinesqueanum			
Viburnum rafinesqueanum Calycanthus floridus	Sweet-shrub	0%	
		0% 0%	
Calycanthus floridus Symphoricarpos orbiculatus	Sweet-shrub		
Calycanthus floridus	Sweet-shrub		Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines:	Sweet-shrub Coralberry	0%	Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Muscadinia rotundifolia Smilax spp. Parthenociasus quinquefolia	Sweet-shrub Coralberry Muscadine	0% 	
Calycanthus floridus Symphoricarpos orbiculatus Vines: Muscasdinia rotundifolia Smilas app. Parthenociasus quinquefolia Toukodendron radicans	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-presper Easten Poison Ivy	0% 100% 73% 64% 55%	Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus fines: Muscasdinia rotundifolia Smilas app. Parthenoisasus quinquefolia Toxicodendron radicans	Sweet-shrub Coraberry Muscadine Greenbrier Virginia-greeper	0% 100% 73% 64%	Moderately Abundant
Calycanthus floridus Symphonicarpos orbiculatus Fines: Muscadinia rotundifolia Smilax spp. Parthenociasus quinquefolia Toxicodendron radicans Bignonia capreolata Herbs:	Sweet-shrub Coraiberry Muscadine Greenbrier Virginia-creeper Eastern Poison hy Cross-vine	0% 100% 73% 64% 55% 27%	Moderately Abundant Occasional to Locally Abundan
Calycanthus floridus Symphonicarpos orbiculatus Vines: Vines: Smilar potundifolia Smilax spp. Parthenociasus guinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichanthelium boscii	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-creeper Eastern Poison Ivy Cross-vine Bosc's Witch Grass	0% 100% 73% 64% 55% 27%	Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Muscasdinia rotundifolia Smilas spp. Parthenociasus guinquefolia Touicodendron radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-presper Eastern Poison My Cross-vine Bosc's Witch Grass Turpentine-root	0% 199% 73% 64% 55% 27%	Moderately Abundant Occasional to Locally Abundan
Calycanthus floridus Symphonicarpos orbiculatus Vines: Vines: Smitar potundifolia Smitax spp. Parthenociasus quinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichamitelium boscii Endodeca serpentaria Gallum circaezans	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-creeper Eastern Poison hy Cross-vine Bosc's Writch Grass Turpentine-root Southern Forest Bedstraw	0% 100% 73% 64% 55% 27% 73% 73%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphonicarpos orbiculatus Vines: Muscadinia rotundifolia Smilax spp. Parthenociasus guinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Galium circaezans Polygonatum billiorum	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-creeper Eastern Poison Ivy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal	73% 64% 55% 27% 73% 73% 73% 73% 73%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Muscadinia rotundifolia Smilax spp. Bathenociasus quinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Galium circaezans Polygonatum biflorum Asplenium platyneuron	Sweet-shrub Coralberry Muscadine Greenbrier Viriginia-greeper Eastern Poison hy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleerwort	73% 55% 73% 73% 73% 73% 73% 73% 55%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphonicarpos orbiculatus Vines: Vines: Smilar aptundifolia Smilax app. Parthenociasus guinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Galium circaezans Palygonatum biflorum Asplanium platyneuron Hexastylis arifolia	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-creeper Eastern Poison hy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug	73% 64% 55% 27% 73% 73% 73% 73% 55% 36%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus fines: Magaadinia rotundifolia Smilas spp. Partherociasus quinquefolia Toxicodendron radicans Rignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Salium circaezans Valygonatum bilibrum Asplenium platyneuron Vexastylis arifolia Polystathum acrostichoides	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-presper Eastern Poison My Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern	73% 64% 55% 27% 73% 73% 73% 73% 55% 36% 36%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Unes: Muscadinia rotundifolia Smilax app. Partheriociasus quinquefolia Toxicodendinon radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Galium circaezans Polygonatum bifforum Asplenium playneuron Hexastylis arifolia Posstylis arifolia Posstylis arifolia Posstylis arifolia Posstylis arifolia Posstylis arifolia	Sweet-shrub Coraiberry Muscadine Greenbrier Virignia-greeper Eastern Poison hy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Speenwort Little Brown Jug Christmas Fern White Milkweed	73% 64% 55% 27% 73% 73% 73% 73% 55% 36% 36% 36%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphonicarpos orbiculatus Vines: Vines: Smilar app. Barthenociasus guinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Galium circaezans Polygonatum biflorum Asplenium playneuron Hexastylis arifolia Polystichum acrostichoides Asclepias variegata Botrypus virginianus	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-greeper Eastern Poison hy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Mikweed Rattlesnake Fern	73% 64% 65% 27% 73% 73% 73% 73% 55% 36% 36% 27%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Muscasdinia rotundifolia Smilas app. Partherociasus guinquefolia Toukoodendron radicans Bignonia capreolata Harbas: Dichanthelium boscii Endodeca serpentaria Galium circaezans Polygonatum biflorum Asplenium platyneuron Vexastylis arifolia Polystathum acrostichoides Asolepias variegata Botrypus virginianus Medica mutica	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-resper Eastern Poison My Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bestraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Milkweed Rattlesnake Fern Two-flower Melic	73% 64% 65% 27% 73% 73% 73% 73% 55% 36% 36% 36% 27% 27%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Unes: Muscadinia rotundifolia Smilax spp. Partheriociasus quinquefolia Toxicodendiron radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Salium circaezans Polygonatum bifforum Asplenium playneuron Hexastylis arifolia Polystichum acrostichoides Asclepias variegata Botrypus virginianus Melica mutica Uvularia perfoliata	Sweet-shrub Coraiberry Muscadine Greenbrier Virignia-creeper Eastern Poison Ivy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Mikweed Rattlesnake Fern Twe-flower Melic Perfoliate Bellwort	73% 64% 55% 73% 73% 73% 73% 55% 36% 36% 36% 27% 27%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphonicarpos orbiculatus Vines: Vines: Smilar optimidiolia Smilax app. Barthenpoissus guinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Galium circaezans Polygonatum biflorum Asplenium playneuron Hexastylis arifolia Polystichum acrostichoides Asclepias variegata Botrypus virginianus Melica mutica Urutaria perfoliata Brachyelytum erectum	Sweet-shrub Coralberry Muscadine Greenbrier Viriginia-greeper Eastern Poison hy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Sclomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Mikweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk	73% 64% 65% 27% 73% 73% 73% 73% 55% 36% 36% 36% 27% 27% 27% 27%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Muscadinia rotundifolia Smilax spp. Bathenociasus quinquefolia Toxicodendrion radicans Bignonia capreolata Peterbs: Dichanthelium boscii Endodeca serpentaria Galium circaezans Polygonatum biflorum Asplenium platyneuron Petexastylis arifolia Polystichum acrostichoides Asclepias variegata Botrypus virginianus Melica mulica Drugsdyrum virginianum Drugsdyrum virginianum	Sweet-shrub Coraiberry Muscadine Greenbrier Viriginia-greeper Eastern Poison hy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Mikweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-gold	73% 64% 55% 27% 73% 73% 73% 73% 55% 36% 36% 36% 27% 27% 27% 18%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycantinus floridus Symphonicarpos orbiculatus Vines: Vines: Smithonicarpos orbiculatus Vines: Smithonicarpos orbiculatus Smithonicarpos orbiculatus Smithonicarpos Smithonicarpos Smithonicarpos Signonia capreolata Vines: Signonia capreolata Signonia capreolata Signonia capreolata Signonia capreolata Signonia capreolata Salium circaezans Polygonatum pittorum Asplenium platyneuron Vexastylis arifolia Polystichum acrostichoides Asolepias variegata Botrypus virginianus Melicar mulica Urularia perfoliata Brachyelytrum erectum Chrysogonum virginianum Maisanthemum racermosum	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-greeper Eastern Poison Ivy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Mikweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-gold Eastern Solomon's-plume	73% 64% 55% 73% 73% 73% 73% 55% 36% 36% 36% 27% 27% 27% 18%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Muscadinia rotundifolia Smilax spo. Batheriociasus quinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichanihelium boscii Endodeca serpenlaria Galium circaezans Polygonatum biflorum Asplenium platyneuron Hexastylis arifolia Polystichum acrostichoides Asclepias varieqata Botrypus virginianus Melica mutea Uvularia perfoliata Brachyekytim erectum Chrysogonum virginianum Malianthemum racermosum Phyma leptostachya	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-presper Eastern Poison hy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seel Ebony Spleenwort Little Brown Jug Christmas Fern White Milkweed Rattlesnake Fem Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-gold Eastern Solomon's-plume American Lopseed	73% 64% 65% 73% 73% 73% 73% 73% 55% 36% 36% 27% 27% 27% 27% 18% 18%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Unies: Muscadinia rotundifolia Smilax app. Partheriociasus quinquefolia Toxicodendinon radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Galium circaezans Polygonatum bifforum Asplenium playneuron Hexastylis arifolia Polystichum acrostichoides Asclepias variegata Bothypus virginianus Melica musca Uvulania perfoliata Brachyehytrum erectum Chrysogonum Maisanthemum racemosum Phyma leptostachya Soleria oligantha	Sweet-shrub Coraiberry Muscadine Greenbrier Virignia-greeper Eastern Poison hy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Speerwort Little Brown Jug Christmas Fern White Mikweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-gold Eastern Solomon's-plume American Lopseed Few-flowered Nutrush	73% 64% 55% 73% 73% 73% 73% 55% 36% 36% 36% 27% 27% 27% 18% 18%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vinnes: Mustasdirija rotundifolia Smilax spp. Partheriociasus guinquefolia Toxicodendron radicans Bignonia capreolata Bignonia pereolata Basilum pitayneuron Hexastylis arifolia Polystachum acrostichoides Asolepias variegata Bodrypus viginianus Metica mutica Uvularia perfoliata Brachyehytum erectum Chrysogonum virginianum Metiantherum racernosum Phryma leptostachya Soleria oligantha Carex pensylvanica	Sweet-shrub Coralberry Muscadine Greenbrier Virginia-presper Eastern Poison hyv Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bestraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Milkweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-gold Eastern Solomon's-plume American Lopseed Few-flowered Nutrush Sedge	73% 55% 73% 55% 73% 73% 73% 55% 36% 36% 36% 27% 27% 27% 18% 18% 18%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Muscadinia rotundifolia Smilax spp. Bathenociasus quinquefolia Toxicodendron radicans Bignonia capreolata Peres de la constituta de la con	Sweet-shrub Coraiberry Muscadine Greenbrier Viriginia-greeper Eastern Poison hy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Mikweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-gold Eastern Solomon's-plume American Lopseed Few-flowered Nutrush Sedge Eastern Flowering Spurge	73% 64% 55% 27% 73% 73% 73% 55% 36% 36% 36% 27% 27% 27% 27% 18% 18% 18% 18%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Unies: Muscadinia rotundifolia Smilax spp. Partheriociasus quinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Salium circaezans Polygonatum bifforum Asplenium playneuron Hexastylis arifolia Polystichum acrostichoides Asclepias variegatis Botrypus virginianus Melica mutica Uvularia perfoliata Brachyelytrum erectum Chrysogonum virginianum Maianthemum racernosum Phryma leptostachya Soleris oligantha Carex pensylvanica Euphorbia corollata Eutrochium purpureum	Sweet-shrub Coraiberry Muscadine Greenbrier Virignia-creeper Eastern Poison Ivy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Mikweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-qold Eastern Solomon's-plume American Lopseed Few-flowerd Nutrush Sedge Eastern Flowering Spurge Purple-node Joe-pye-weed.	73% 54% 55% 73% 73% 73% 73% 55% 36% 36% 36% 27% 27% 27% 18% 18% 18% 18% 9%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Muscadinia rotundifolia Smilax spo. Batheriociasus quinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichanihelium boscii Endodeca serpenlaria Galium circaezans Polygonatum biflorum Asplenium platyneuron Hexastylis arifolia Polystichum acrostichoides Asclepias varieqata Botrypus virginianus Melica musca Uvularia perfoliata Brachyekytianina recetum Chrysogonum virginianum Malianthemum racermosum Phyma leptostachya Soleria oligantha Carex pensylvanica Euphorbia corollata Eutrochium purpurerum Zephyranica	Sweet-shrub Coraiberry Muscadine Greenbrier Viriginia-greeper Eastern Poison hy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Mikweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-gold Eastern Solomon's-plume American Lopseed Few-flowered Nutrush Sedge Eastern Flowering Spurge	73% 64% 65% 27% 73% 73% 73% 73% 55% 36% 27% 27% 27% 27% 27% 18% 18% 18% 18% 9% 9%	Moderately Abundant Occasional to Locally Abundan
Calycanthus floridus Symphoricarpos orbiculatus Vines: Unies: Muscadinia rotundifolia Smilax spp. Partheriociasus quinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Salium circaezans Polygonatum bifforum Asplenium playneuron Hexastylis arifolia Polystichum acrostichoides Asclepias variegatis Botrypus virginianus Melica mutica Uvularia perfoliata Brachyelytrum erectum Chrysogonum virginianum Maianthemum racernosum Phryma leptostachya Soleris oligantha Carex pensylvanica Euphorbia corollata Eutrochium purpureum	Sweet-shrub Coraiberry Muscadine Greenbrier Virignia-creeper Eastern Poison Ivy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Mikweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-qold Eastern Solomon's-plume American Lopseed Few-flowerd Nutrush Sedge Eastern Flowering Spurge Purple-node Joe-pye-weed.	73% 64% 55% 27% 73% 73% 73% 55% 36% 36% 36% 36% 27% 27% 27% 18% 18% 18% 18% 18% 9% 9%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Muscadinia rotundifolia Smilax spo. Batheriociasus quinquefolia Toxicodendron radicans Bignonia capreolata Herbs: Dichanihelium boscii Endodeca serpenlaria Galium circaezans Polygonatum biflorum Asplenium platyneuron Hexastylis arifolia Polystichum acrostichoides Asclepias varieqata Botrypus virginianus Melica musca Uvularia perfoliata Brachyekytianina recetum Chrysogonum virginianum Malianthemum racermosum Phyma leptostachya Soleria oligantha Carex pensylvanica Euphorbia corollata Eutrochium purpurerum Zephyranica	Sweet-shrub Coralberry Muscadine Greenbrier Viriginia-preper Easten Poison Ivy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Milkweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-gold Eastern Solomon's-plume American Lopseed Few-flowered Nutrush Sedge Eastern Flowering Spurge Purple-node Joe-pye-weed. Common Atamasso-lify Sedge Blackedge Sedge	73% 64% 65% 27% 73% 73% 73% 73% 55% 36% 27% 27% 27% 27% 27% 18% 18% 18% 18% 9% 9%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vines: Muscadinia rotundifolia Smilax spp. Bathenociasus quinquefolia Toxicodendrion radicans Bignonia capreolata Herbs: Dichanthelium boscii Endodeca serpentaria Galium circaecans Polygonatum bifforum Asplenium platyneuron Hexastylis arifolia Polystichum acrostichoides Asclepias variegata Bothypus virginianus Melica mutica Uvularia perfoliata Uvularia perfoliata Uvularia perfoliata Dichrysogonum racemosum Phyma leptostachya Soleria oligantha Carex pensylvanica Eutrochium purpureum Zephyranites atamasca Carex albicans	Sweet-shrub Coraiberry Muscadine Greenbrier Viriginia-greeper Eastern Poison hy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Mikweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-gold Eastern Solomon's-plume American Lopseed Few-flowered Nutrush Sedge Eastern Flowering Spurge Purple-node Joe-pye-weed. Common Atamasco-lify Sedge	73% 64% 55% 27% 73% 73% 73% 55% 36% 36% 36% 36% 27% 27% 27% 18% 18% 18% 18% 18% 9% 9%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant
Calycanthus floridus Symphoricarpos orbiculatus Vinnes: Mustasdiria rotundifolia Smilax spp. Partheriociasus guinquefolia Toxicodendron radicans Bignonia capreolata Bignonia perelatinia Galium ricraezans Deliyatinium biflorum Asplenium platyneuron Hexastylis arifolia Borhyats virginianus Metica mutica Uvularia perfoliata Brachyehytum erectum Chrysogonum virginianum Metiantherum racernosum Phryma leptostachya Soleria oligantha Carex pensylvanica Euphorbia corollata Eurochium prupureum Zephyranities atamasca Carex a obicans	Sweet-shrub Coralberry Muscadine Greenbrier Viriginia-preper Easten Poison Ivy Cross-vine Bosc's Witch Grass Turpentine-root Southern Forest Bedstraw Small Solomon's-seal Ebony Spleenwort Little Brown Jug Christmas Fern White Milkweed Rattlesnake Fern Two-flower Melic Perfoliate Bellwort Common Shorthusk Green-and-gold Eastern Solomon's-plume American Lopseed Few-flowered Nutrush Sedge Eastern Flowering Spurge Purple-node Joe-pye-weed. Common Atamasso-lify Sedge Blackedge Sedge	73% 64% 55% 73% 73% 73% 73% 58% 36% 36% 36% 27% 27% 27% 18% 18% 18% 18% 9% 9% 9%	Moderately Abundant Cocasional to Locally Abundant Moderately Abundant

Piedmont Flora by Natural Community DRY BASIC OAK-HICKORY FOREST - CEGL007773

Scientific Name	Common Name	CVS Constancy	Abundance
Dominant Trees: Quercus stellata	Post Oak	89%	Abundant
Quercus stellata Quercus alba	White Oak	89%	Abundant
Quercus falcata	Southern Red Oak	44%	
Fraxinus americana	White Ash	100%	Moderately Abundant
Carya glabra	Pignut Hickory	89%	NOOD MANY POUNDER
Carya tomentosa	Mockernut Hickory	89%	
Quercus velutina	Black Oak	78%	
Quercus rubra	Red Oak	89%	Occasional to Locally Abundant
Liquidambar styraciflua	Sweet Gum	67%	,
Liriodendron tulipifera	Tulip-tree	56%	
Carya carolinae-septentrionalis	Carolina Shagbark Hickory	56%	
Carya ovata	Common Shagbark Hickory	33%	
Pinus echinata	Shortleaf Pine	22%	
Carya ovalis	Red Hickory	0%	
Understory Trees:			
Juniperus virginiana	Eastern Red Cedar	100%	Abundant
Cercis canadensis	Eastern Redbud	89%	
Prunus serolina	Black Cherry	89%	
Acer rubrum	Eastern Red Maple	89%	
Cornus florida	Flowering Dogwood	78%	Moderately Abundant
Diospyros virginiana	American Persimmon	78%	
Ulmus alata	Winged Elm	78%	
Лех ораса	American Holly	67%	
Vaccinium arboreum	Farkleberry	56%	Occasional to Locally Abundant
Nyssa sylvatica	Black Gum	56%	
Acer floridanum	Southern Sugar Maple	44%	
Acer leucoderme	Chalk Maple	33%	
Chionanthus virginicus	Fringe-tree	33%	
llex decidua	Possum-haw	33%	
Ostrya virginiana	American Hop-hornbeam	22%	
Shrubs:			
Euonymus americanus	Strawberry-bush	89%	Abundant
Vaccinium stamineum	Common Deerberry	78%	Moderately Abundant
Rosa carolina	Carolina Rose	67%	
Vaccinium pallidum	Hillside Blueberry	44%	Occasional to Locally Abundant
Vibumum rufidulum	Southern Black Haw	33%	
Frangula caroliniana	Carolina Buckthorn	11%	
Rhus aromatica	Fragrant Sumac	11%	
Symphoricarpos orbiculatus	Coralberry	11%	
Vibumum acerifolium	Mapleleaf Viburnum	11%	
Viburnum rafinesqueanum	Downy Arrow-wood	11%	
Vines:			
Muscadinia rotundifolia	Muscadine	100%	Abundant
Parthenocissus quinquefolia		10076	Parallal III
rannenoussus quinqueita	Virginia-creeper	100%	Audions
	Virginia-creeper Greenbrier		AUGUST .
Smilax spp. Toxicodendron radicans		100%	Occasional to Locally Abundant
Smilax spp. Toxicodendron radicans Lonicera sempervirens	Greenbrier Eastern Poison Ivy Coral honeysuckle	100% 89% 56% 56%	
Smilax spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens	Greenbrier Eastern Poison Ivy	100% 89% 56%	
Smilex spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs:	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine	100% 89% 56% 56% 33%	Occasional to Locally Abundant
Smilax spp. Toxicodendron radicans Lonicera sempenvirens Gelsemium sempervirens Herbs: Asplenium platyneuron	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort	100% 89% 56% 56% 33%	Occasional to Locally Abundant Abundant
Smiax spp. Toxizodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Gallum circaezans	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine	100% 89% 56% 56% 33%	Occasional to Locally Abundant
Smilax spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Herbs: Gallum circaezans Danthonia spicata	Greentrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oat-grass	100% 89% 56% 56% 33% 89% 78% 67%	Occasional to Locally Abundant Abundant
Smilar spp. Toxicodendron radicans Lonicera sempenvirens Gelsemium sempervirens Herbs: Asplenium platyneuron Gallum circaezans Danthonia spicata Endodeca serpentaria	Greenbrier Eastern Polson Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Out-grass Turpentine-root	100% 89% 56% 56% 33% 89% 78% 67% 67%	Occasional to Locally Abundant Abundant
Smilax spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Gallum circaezans Danthonia spicate Endodeca serpentaria Uvularis perfoliata	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebory Spleenwort Southern Forest Bedstraw Poverty Oat-grass Turpentine-root Perfoliate Bellwort	100% 89% 56% 56% 33% 89% 78% 67%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilay spp. Toxibodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Gallum circaezans Danthonia spicata Endodeca serpentaria	Greenbrier Eastern Polson Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Out-grass Turpentine-root	100% 89% 56% 56% 33% 33% 89% 78% 67% 67%	Occasional to Locally Abundant Abundant
Smilax spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Gallum circaezans Danthonia spicata Endodeca serpentaria Uvularis perfoliata Piptochaetium avenaceum	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oat-grass Turpentine-root Perfoliate Betlwort Eastern Needlegrass	100% 89% 56% 56% 33% 78% 67% 67% 56%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilar spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Galum circaezans Danthonia spicata Endodeca serpentaria Uvularia perfolata Potochaetium avenaceum Scleria oligantha	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebory Spleenwort Southern Forest Bedstraw Poverty Oar-grass Turpentine-root Perfoliate Bellwort Eastern Needlegrass Few-flowered Nutrush Eastern Solomon's-plume Two-flower Melic	100% 89% 56% 56% 33% 89% 78% 67% 67% 67% 56% 56%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilar spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Galum circaezans Danthonia spicata Endodeca serpentaria Uvularia perfoliata Uvularia perfoliata Scleria oligantha Malanthemum racemosum Melica mutica Passillora lutea	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Ord-grass Turpentine-root Perfoliate Bellwort Eastern Needlegrass Few-flowered Nutrush Eastern Solomon's-plume Two-flower Melic Eastern Yellow Passionflower	100% 89% 56% 56% 56% 33% 89% 78% 67% 67% 56% 56%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilax spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Galium circaezans Danthonia spicata Endodeca serpentaria Uyularia perfoliata Piotochaetium avenaceum Scleria oligantha Maiarnthemur racemosum Melica mutica	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oat-grass Turpentine-root Perfoliate Bellwort Eastern Needlegrass Few-flowerd Nutrush Eastern Sciomon's-plume Two-flower Melic Eastern Yellow Passionflower Christmas Fern	100% 89% 56% 56% 33% 889% 78% 67% 67% 56% 56% 44%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilar spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Galum circaezans Danthonia spicata Endodeca serpentaria Urularia perfolata Urularia perfolata Scleria oligantha Malanthemum racemosum Melica mutica Passillora utea	Greentrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oard-grass Turpentine-root Perfoliate Bellwort Eastern Needlegrass Few-flowered Nutrush Eastern Sciomon's-plume Two-flower Melic Eastern Yellow Passionflower Christmas Fern White Mikweed	100% 89% 56% 56% 33%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilar spp. Toxicodendron radicans Lonicars sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Galum circaezans Danthonia spicata Endodeca serpentaria Uvularis perfoliata Potochaetium avenaceum Scleria oliquantha Maiarithemum racemosum Mekca mulica Polystichum akrea Polystichum acrostichoides	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oat-grass Turpentine-root Perfoliate Bellwort Eastern Needlegrass Few-flowerd Nutrush Eastern Sciomon's-plume Two-flower Melic Eastern Yellow Passionflower Christmas Fern	100% 89% 56% 56% 56% 33% 89% 78% 67% 67% 56% 56% 44%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilar spp. Toxicodendron radicans Lonicars sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Galum circaezans Danthonia spicata Endodeca serpentaria Uvularis perfoliata Potochaetium avenaceum Scleria oliquantha Maianthemum racemosum Melca mulica Polystichum acrostichoides Asclepias variegata Euphorbia corollata Cunila origanoides	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oat-grass Turpentine-root Perfoliate Beltwort Eastern Needlegrass Few-flowered Nutrush Eastern Solomon's-plume Two-flower Melic Eastern Yellow Passionflower Christmas Fern White Milkweed Eastern Flowering Spurge Stone-mint	100% 89% 56% 56% 33% 88% 78% 67% 67% 56% 56% 44% 44% 44%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilar spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Gallum circaezans Danthonia spicata Endodeca serpentaria Urularia perfoliata Piptochaedrum avenaceum Scleria oligantha Malanthemum racemosum Melse mutica Passiflora lutea Polystichum acrostichoides Asclepias variegata Euphorbia corollata	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oral-grass Turpentine-root Perfoliate Bellwort Eastern Needlegrass Few-flowered Nutrush Eastern Solomon's-plume Two-flower Melic Eastern Yellow Passionflower Christmas Fern White Milkweed Eastern Flowering Spurge	100% 89% 56% 56% 33%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilar spp. Toxicodendron radicans Lonicars sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Galum circaezans Danthonia spicata Endodeca serpentaria Uvularis perfoliata Potochaetium avenaceum Scleria oliquantha Maianthemum racemosum Melca mulica Polystichum acrostichoides Asclepias variegata Euphorbia corollata Cunila origanoides	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oat-grass Turpentine-root Perfoliate Beltwort Eastern Needlegrass Few-flowered Nutrush Eastern Solomon's-plume Two-flower Melic Eastern Yellow Passionflower Christmas Fern White Milkweed Eastern Flowering Spurge Stone-mint	100% 89% 56% 56% 33% 88% 78% 67% 67% 56% 56% 44% 44% 33% 33% 22%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilar spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Gallum circaezans Danthonia spicata Endodeca serpentaria Uvularia perfoliata Uvularia perfoliata Piptochaedium avenaceum Scleria oligantha Maianthemum racemosum Melca muiica Passillora lutea Polystichum acrostichoides Asclepias variegata Euphorbia corollata Cunila origanoides Polygonatum billorum	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oat-prass Turpentine-root Perfoliate Bellwort Eastern Needlegrass Few-flowered Nutrush Eastern Solomon's-plume Two-flower Melic Eastern Yellow Passionflower Christmas Fern White Milkweed Eastern Flowering Spurge Stone-mint Small Solomon's-seal	100% 89% 56% 56% 33% 78% 67% 67% 56% 56% 44% 44% 44% 33% 33% 33% 22%	Occasional to Locally Abundant Abundant Moderately Abundant
Sniku spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Galtum circaezans Danthonia spicata Endodeca serpentaria Urularia perfoliata Potochaedria perfoliata Melanthemum racemosum Melanthemum racemosum Melanthemum acrostichoides Asciepias varigata Euphorbia corollata Cunta origanoides Cunta origanotum Garex nigromarginata	Greenbrier Eastern Polson Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oral-grass Turpentine-root Perfoliate Bellwort Eastern Needlegrass Few-flowered Nutrush Eastern Solomon's-plume Two-flower Melic Eastern Yellow Passionflower Christmas Fern White Milkweed Eastern Flowering Spurge Stone-mint Small Solomon's-seal Blackedge Sedge	100% 89% 56% 56% 33%	Occasional to Locally Abundant Abundant Moderately Abundant
Smiax spp. Toxicodendron radicans Lonicera sempenvirens Gelsemium sempervirens Herbs: Aspienium platyneuron Galum circaezans Benthonia spicata Endodeca serpentaria Uvularia perfoliata Potochaetium avenaceum Scleria oligantha Maianthemum racemosum Melica mutica Passillora lutea Polystichum acrostichoides Asciepias variegata Euphorbia corollata Cunila origanoides Polygonatum billorum Carex nigromarginata Carex pensylvanica Clematis ochroleuca	Greenbrier Eastern Polson Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oat-grass Turpentine-root Perfoliate Bellwort Eastern Needlegrass Few-flowered Nutrush Eastern Solomon's-plume Two-flower Melic Eastern Yellow Passionflower Christmas Fern White Milkweed Eastern Flowering Spurge Stone-mint Small Solomon's-seal Blackedge Sedge Sedge	100% 89% 56% 56% 33%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilar spp. Toxicodendron radicans Lonicers sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Galum okraezans Danthonia spicata Endodeca serpentaria Uvularia perfolata Potochaetium avenaceum Scleria okgantha Maianthemum racemosum Melca mutica Polystichum acrostichoides Asciepias variegata Euphorbia corollata Cunila origanoides Polygonatum billonum Carex nigromarginata Carex pensylvanica	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Odr-grass Turpentine-root Perfoliate Bellwort Eastern Needlegrass Few-flowered Nutrush Eastern Solomon's-plume Two-flower Melic Eastern Yellow Passionflower Christmas Fern White Mikweed Eastern Flowering Spurge Stone-mint Small Solomon's-seal Blackedge Sedge Sedge Curlyheads	100% 89% 56% 56% 33% 67% 67% 67% 56% 56% 44% 44% 44% 11% 11%	Occasional to Locally Abundant Abundant Moderately Abundant
Smilar spp. Toxicodendron radicans Lonicera sempervirens Gelsemium sempervirens Herbs: Asplenium platyneuron Gallum circaezans Denthonia spicata Endodeca serpentaria Urularia perfoliata Endodeca serpentaria Urularia perfoliata Potochaedum avenaceum Scleria oliqantha Malanthemum racemosum Melse mutica Passillora lutea Polystichum acrostichoides Asclepias varigatta Euphorbia corollata Cunita origanoides Polygonatum biltorum Carex nigromarginata Carex pensylvanica Clematis ochrolica Coreopsis major	Greenbrier Eastern Poison Ivy Coral honeysuckle Carolina Jessamine Ebony Spleenwort Southern Forest Bedstraw Poverty Oral-grass Turpentine-root Perfoliate Bellwort Eastern Needlegrass Few-flowered Nutrush Eastern Solomon's-plume Two-flower Melic Eastern Yellow Passionflower Christmas Fern White Mikweed Eastern Flowering Spurge Stone-mint Small Solomon's-seal Blackedge Sedge Sedge Curlyheads Woodland Coreopsis	100% 89% 56% 56% 33%	Occasional to Locally Abundant Abundant Moderately Abundant

Attachment 6i

Piedmont Flora by Natural Community XERIC HARDPAN FOREST - CEGL003714

XERIC HARDPAN I	FOREST - CEGL00371	14	
0-1		CVS	About to a second
Scientific Name	Common Name	Constancy	Abundance
Dominant Trees:			
Quercus stellata	Post Oak	100%	Abundent
Carya glabra Fraxinus americana	Pignut Hickory White Ash	71% 71%	Moderately Abundant
Carya carolinae-septentrionalis	Carolina Shagbark Hickory	64%	
Quercus phellos	Willow Oak	71%	Occasional to Locally Abundant
Liquidambar styraciflua	Sweet Gum	50%	
Quercus alba Carya tomentosa	White Oak Mockemut Hickory	50% 43%	
Quercus rubra	Red Oak	43%	
Quercus velutina	Black Oak	43%	
Carya ovata	Common Shagbark Hickory	36% 36%	MOVE?
Quercus marilandica Pinus echinata	Blackjack Oak Shortleaf Pine	36% 29%	MOVE?
Pinus virginiana	Virginia Pine	14%	
Understory Trees: Ulmus alata	Winged Elm	100%	Abundent
Juniperus virginiana	Eastern Red Cédar	93%	PARAILIETT
Prunus serotina	Black Cherry	79%	Moderately Abundant
Diospyros virginiana	American Persimmon	71%	
Acer rubrum Vaccinium arbonum	Eastern Red Maple	57% 57%	Occasional to Locally Abundant
Vaccinium arboreum Cornus florida	Farkleberry Flowering Dogwood	43%	
Nyssa sylvatica	Black Gum	43%	
Chionanthus virginicus	Fringe-tree	36%	
Nex decidua Cercis canadensis	Possum-haw Eastern Redbud	36% 29%	
Acer leucoderme	Chalk Maple	21%	
Prunus americana	Wild Plum	7%	
Shrubs: Vaccinium stamineum	Common Deerberry	50%	Occasional to Locally Abundant
Rosa carolina	Carolina Rose	43%	Occasional to Locally Abundant
Viburnum prunifolium	Black Haw	43%	
Hypericum hypericoides	St. Andrew's Cross	29%	
Rhus aromatica	Fragrant Sumac	29%	
Vaccinium tenellum	Small Cluster Blueberry	29% 14%	
Viburnum rufidulum Rhus copallinum	Southern Black Haw Winged Sumac	14%	
Manfreda virginica	Rattlesnake-master	14%	
Vaccinium pallidum	Hillside Blueberry	7%	
Viburnum rafinesqueanum	Downy Arrow-wood	7%	
Symphoricarpos orbiculatus	Coralberry	0%	
Vines:			
Muscadinia rotundifolia	Muscadine	100%	Abundant
Toxicodendron radicans	Eastern Poison My	79%	Moderately Abundant
Parthenocissus quinquefolia Smilay son	Virginia-creeper Greenbrier	79%	
Smilax spp. Campsis radicans	Greenbrier Trumpet-creeper	71% 57%	Occasional to Locally Abundant
Lonicera sempervirens	Coral honeysuckle	50%	
Thrysanthella difformis	Climbing Dogbane	36%	
Herbs:			
Danthonia spicata	Poverty Oat-grass	71%	Moderately Abundant
Asplenium platyneuron	Ebony Spleenwort	57%	Occasional to Locally Abundant
Endodeca serpentaria	Turpentine-root	43%	
Piptochaetium avenaceum	Eastern Needlegrass	43%	
Hieracium venosum Polygonatum biflorum	Veiny Hawkweed Small Solomon's-seal	21% 21%	
Coreopsis major	Woodland Coreopsis	14%	
Coreopsis verticillata	Threadleaf Coreopsis	14%	
Lespedeza spp.	Lespedeza	14%	
Oenothera fruticosa	Southern Sundrops	14%	
Clematis ochroleuca	Curlyheads	7%	
Marshallia obovata Muhlenbergia capillaris	Piedmont Barbara's-buttons Hairgrass	7% 7%	
Packera anonyma	Appalachian Ragwort	7%	
Physostegia virginiana	Obedient-plant	7%	
Pityopsis graminifolia	Grass-leaved Golden-aster	7%	
Sericocarpus linifolius	Narrow-leaf White-topped Aster	7% 7%	
Vernonia acaulis	Ironweed	1%	I

0% 0% 0%

Ironweed
Honesty-weed
Beaked Hawkweed
Shaggy Blazing-star
Common Little Bluestern
Eastern Gray Goldenrod
Licorice Goldenrod
Long-stalked Aster

Hieracium gronovii Liatris pilosa Schizachyrium scoparium Solidago nemoralis Solidago odora Symphyotrichum dumosum

Attachment 6j

Piedmont Flora by Natural Community ALLUVIAL FOREST - CEGL004418

		cvs	
Scientific Name	Common Name	Constancy	Abundance
			
Dominant Trees: Liriodendron tulipifera	Tulip-tree	4009/	11
Linogengron tulipitera Liquidambar styraciflua	Sweet Gum	100% 91%	Abundant
Betula nigra	River Birch	66%	
Celtis laevigata	Southern Hackberry	59%	
Platanus occidentalis	Sycamore	41%	
Acer rubrum	Eastern Red Maple	88%	Moderately Abundant
Fraxinus pennsylvanica	Green Ash	69%	
Quercus alba	White Oak	69%	
Fagus grandifolia	American Beech	66%	
Juglans nigra	Black Walnut	63%	
Carya cordiformis	Bitternut Hickory	53%	Occasional to Locally Abundant
Quercus rubra Carva tomentosa	Red Oak Mockernut Hickory	41%	
Carya tomentosa Carya ovata	Common Shagbark Hickory	34% 31%	
Quercus shumardii	Shumard Oak	31%	
Ulmus americana	American Elm	22%	
Understory Trees:			
Comus florida	Flowering Dogwood	94%	Abundant
Prunus serotina	Black Cherry	91%	
Acer rubrum	Eastern Red Maple	88%	
Carpinus caroliniana	American Hornbeam	88%	
llex opaca	American Holly	88%	
Juniperus virginiana	Eastern Red Cedar	69%	Occasional to Locally Abundant
Acer floridanum	Southern Sugar Maple	50%	
Morus rubra	Red Mulberry	47%	
Ulmus alata Cercis canadensis	Winged Elm Eastern Redbud	47% 44%	
Acer negundo	Eastern Redoud	40%	
Diospyros virginiana	American Persimmon	38%	
Nyssa sylvatica	Black Gum	38%	
Oxydendrum arboreum	Sourwood	38%	
llex decidua	Possum-haw	34%	
Ostrya virginiana	American Hop-hornbeam	34%	
Asimina triloba	Common Pawpaw	31%	
Ulmus rubra	Slippery Elm	31%	
Shrubs:	Standard Land	0.007	
Euonymus americanus	Strawberry-bush Northern Spicebush	88% 63%	Abundant Abundant
Lindera benzoin Viburnum prunifolium	Black Haw	56%	Moderately Abundant Occasional to Locally Abundant
Sambucus canadensis	Common Elderberry	31%	Occasional to Cocany Pour Gant
Corylus americana	American Hazelnut	25%	
Aesculus sylvatica	Painted Buckeye	16%	
Arundinaria gigantea	Giant Cane	16%	
Calycanthus floridus	Sweet-shrub	13%	
Staphylea trifolia	Bladdernut	13%	
Alnus serrulata	Tag Alder	9%	
Cornus amomum	Silky Dogwood	9%	
Xanthorhiza simplicissima	Yellowroot	9%	
Corylus comuta	Beaked Hazelnut	3%	
Itea virginica	Virginia-willow	0%	
Physocarpus opulifolius	Eastern Ninebark Tall Indigo-bush	0% 0%	
Amorpha fruticosa	Tail Indigo-bush	U76	
Vines:			
Parthenocissus quinquefolia	Virginia-creeper	100%	Abundant
Muscadinia rotundifolia	Muscadine	97%	
Toxicodendron radicans	Eastern Poison Ivy	97%	
Smilax spp.	Greenbrier	88%	
Campsis radicans	Trumpet-creeper	78%	Moderately Abundant
Bignonia capreolata	Cross-vine	59%	Occasional to Locally Abundant
Clematis virginiana	Virgin's-bower	19%	
Menispermum canadense	Moonseed	16%	
Herbs:	Christman Fara	0704	
Polystichum acrostichoides	Christmas Fern	97%	Abundant
Viola spp.	Violet	91%	Ab A1 - AB
Hexastylis arifolia Podophyllum peltatum	Little Brown Jug May-apple	34% 34%	Abundant in MM Abundant in MM
Podopnylium peltatum Tiarella cordifolia	Heartleaf Foamflower	13%	Abundant in MM Abundant in MM
Claytonia virginica	Spring-beauty	0%	Audiodit III MM
and the second	, -print bount	970	

Prepared by Angie Horne 6/11/2013 2:52 PM

Piedmont Flora by Natural Community BOTTOMLAND FOREST - CEGL007356,7006

Scientific Name	Common Name	CVS Constancy	Abundance
Dominant Trees: Quercus phellos	Willow Oak	79%	Abundant
Quercus michauxii	Basket Oak	58%	Abundan
Quercus pagoda	Cherrybark Oak	55%	
Quercus lyrata	Overcup Oak	39%	Moderately Abundant
Quercus nigra	Water Oak	39%	
Quercus alba	White Oak	36%	
iquidambar styraciflua	Sweet Gum	97%	Occasional to Locally Abundant
Fraxinus pennsylvanica	Green Ash	82%	
iriodendron tulipifera	Tulip-tree	52%	
Ulmus americana Carya ovata	American Elm Common Shagbark Hickory	52% 46%	
Celtis laevigata	Southern Hackberry	46%	
Carya cordiformis	Bitternut Hickory	36%	
Acer negundo	Eastern Box Elder	30%	
Quercus shumardii	Shumard Oak	27%	
Fagus grandifolia	American Beech	27%	
Inderstory Trees:			
Acer rubrum	Eastern Red Maple	97%	Abundant
lex decidua	Possum-haw	94%	
Carpinus caroliniana	American Hombeam	82%	
Ilmus alata	Winged Elm	70%	Moderately Abundant
lyssa sylvatica	Black Gum	64%	
Umus rubra Acer floridanum	Slippery Elm Southern Sugar Maple	52%	Occasional to Locally Abundan
lex opaca	American Holly	49%	Occasional to Locally Abundan
Comus florida	Flowering Dogwood	36%	
Diospyros virginiana	American Persimmon	33%	
Asimina triloba	Common Pawpaw	30%	
N			
Shrubs: Euonymus americanus	Strawberry-bush	73%	Moderately Abundant
/ibumum prunifolium	Black Haw	70%	
indera benzoin	Northern Spicebush	30%	Occasional to Locally Abundan
Aesculus sylvatica	Painted Buckeye	27%	
/iburnum dentatum	Arrow-wood	27%	
Arundinaria gigantea Sambucus canadensis	Giant Cane Common Elderberry	24% 21%	
lypericum hypericoides	St. Andrew's Cross	18%	
Comus amomum	Silky Dogwood	9%	
Cephalanthus occidentalis	Buttonbush	6%	
/ines:			
	Eastern Poison lvy	100%	Abundant
Foxicodendron radicans			
	Trumpet-creeper	91%	
ampsis radicans Parthenocissus quinquefolia	Virginia-creeper	91%	
Campsis radicans Parthenocissus quinquefolia Smilax spp.			Moderately Abundant
Campsis radicans Parthenocissus quinquefolia Smilax spp. Signonia capreolata	Virginia-creeper Greenbrier	91% 91%	Moderately Abundant
Campsis radicans Carthenocissus quinquefolia Carthenocissu	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine	91% 91% 79% 76% 24%	
ampsis radicans arthenocissus quinquefolia imilax spp. lignonia capreolata ituscadinia rotundifolia belsemium sempervirens	Virginia-creeper Greenbrier Cross-vine Muscadine	91% 91%	
Campsis radicans Carthenocissus quinquefolia Carthenocissus quinquefolia Carthenocissus quinquefolia Carthenocissus capreolata Auscadinia rotundifolia Calsemium sempervirens Menispermum canadense Iderbs:	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed	91% 91% 79% 76% 24%	Occasional to Locally Abundan
Campsis radicans Carthenocissus quinquefolia Carthenocissus quinquefolia Carthenocissus quinquefolia Carthenocissus capreolata Muscadinia rotundifolia Carthenocissus capreolata Menispermum canadense Carthenocissus capreol	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple	91% 91% 79% 76% 24% 6%	
Campsis radicans Parthenocissus quinquefolia Smilax spp. Signonia capreolata Muscadinia rotundifolia Selsemium sempervirens Menispermum canadense Herbs: Podophyllum peltatum	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower	91% 91% 79% 76% 24%	Occasional to Locally Abundan
Campsis radicans Carthenocissus quinquefolia Carilax spp. Signonia capreolata Auscadinia rotundifolia Jelsemium sempervirens Menispermum canadense Herbs: Tarella cordifolia Hexastylis arifolia	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug	91% 91% 79% 76% 24% 6%	Occasional to Locally Abundan
Campsis radicans Parthenocissus quinquefolia Smilax spp. Signonia capreolata Muscadinia rotundifolia Selsemium sempervirens Menispermum canadense Berbs: Podophyllum peltatum Tiarella cordifolia Lexastylis arifolia Claytonia virginica	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty	91% 91% 79% 76% 24% 6%	Occasional to Locally Abundan
Campsis radicans Parthenocissus quinquefolia Parthenocissus quinquefolia Parthenocissus quinquefolia Parthenocissus quinquefolia Parthenocissus capreolata Parthenocissus capr	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug	91% 91% 79% 76% 24% 6%	Occasional to Locally Abundan
Campsis radicans Parthenocissus quinquefolia Parilax spp. Rignonia capreolata Muscadinia rotundifolia Palsemium sempervirens Menispermum canadense Herbs: Podophyllum peltatum Tiarella cordifolia Hexastylis arifolia Paytonia virginica Erythronium umbilicatum Roehmeria cylindrica	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty Dimpled Trout Lily False-nettle Violet	91% 91% 79% 76% 24% 6%	Occasional to Locally Abundan Abundant
Campsis radicans Carthenocissus quinquefolia Smilax spr. Signonia capreolata duscadinia rotundifolia Selsenium sempervirens denispermum canadense derbs: Codophyllum peltatum Tiarella cordifolia dexastylis arifolia Caytornium umbilicatum Soehmeria cylindrica Tiola spp. Visaema triphyllum	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty Dimpled Trout Lily False-nettle Violet Common Jack-in-the-Pulpit	91% 91% 79% 76% 24% 6% 9% 3% 0% 0% 73% 73% 61%	Abundant Moderately Abundant
Campsis radicans Parthenocissus quinquefolia Smilax spp. Signonia capreolata Auscadinia rotundifolia Pelsemium sempervirens Menispermum canadense Menispermum canadense Merbs: Podophyllum peltatum Fareilla cordifolia Hexastylis arifolia Elaytoria viriginica Erythronium umbilicatum Noehmeria cylindrica Viola spp. Visaema triphyllum Elyceria striata	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty Dimpled Trout Lily False-nettle Violet Common Jack-in-the-Pulpit Fowl Mannagrass	91% 91% 79% 76% 24% 6% 9% 3% 0% 0% 73% 73% 61% 49%	Abundant Moderately Abundant
Campsis radicans Parthenocissus quinquefolia Smilax spp. Signonia capreolata Muscadinia rotundifolia Gelsemium sempervirens Menispermum canadense Herbs: Podophyllum paltatum Tiarella cordifolia Hexastylis arifolia Elaytonia virginica Enythronium umbilicatum Boehmeria cylindrica fiole spp. Misaema triphyllum Siycenia striata Carex tribuloides	Virginia-creeper Greenbrier Cross-vire Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty Dimpled Trout Lily False-nettle Violet Common Jack-in-the-Pulpit Fowl Mannagrass Sedge	91% 91% 79% 76% 24% 6% 9% 3% 0% 0% 73% 73% 61% 49%	Abundant Moderately Abundant
Campsis radicans Parthenocissus quinquefolia Smilax spp. Signonia capreolata Muscadinia rotundifolia Jelsemium sempervirens Menispermum canadense Merbs: Podophyllum pelitatum Tiarella cordifolia Hexastylis arifolia Claytonia virginica Erythronium umbilicatum Jocahmeria cylindrica Viola spp. Visaema triphyllum Silyceria striata Jarexx tribuloides Saururus cernuus	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty Dimpled Trout Lily False-nettle Violet Common Jack-in-the-Pulpit Foed Marnagrass Sedge Lizard's-tail	91% 91% 79% 76% 24% 6% 9% 3% 0% 0% 73% 73% 61% 45% 45%	Abundant Moderately Abundant
Campsis radicans Carthenocissus quinquefolia Smilax spp. Smilax spr. Signonia capreolata duscadinia rotundifolia Selsenium sempervirens denispermum canadense derbs: Codophyllum peltatum Tiarella cordifolia dexastylis arifolia dexastylis arifolia Claytonium umbilicatum Soehmeria cylindrica Frythronium umbilicatum Soehmeria cylindrica Siyceria striata Carex tribuloides Saururus cermuus Carex radiata	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty Dimpled Trout Lily False-nettle Violet Common_lack-in-the-Pulpit Fowl Mannagrass Sedge Lizard's-tail Sedge	91% 91% 79% 76% 24% 6% 9% 3% 0% 0% 0% 73% 61% 49% 45% 42% 39%	Abundant Moderately Abundant
Campsis radicans Parthenocissus quinquefolia Smilax spp. Signonia capreolata Auscadinia rotundifolia Selsemium sempervirens Menispermum canadense Herbs: Podophyllum peltatum Fareila cordifolia Hexastylis arifolia Eleystoria viriginica Erythronium umbilicatum Soehmenia cylindrica Viola spp. Arisaema triphyllum Elyceria striata Jarex radiata Elymus virginicus Saururus cernuus Jarex radiata	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty Dimpled Trout Lily False-nettle Violet Common Jack-in-the-Pulpit Fowl Mannagrass Sedge Lizard's-tail Sedge Common Eastern Wild-rye	91% 91% 79% 76% 24% 6% 9% 3% 0% 0% 73% 73% 73% 49% 45% 42% 39%	Abundant Moderately Abundant
Campsis radicans Parthenocissus quinquefolia Smilax spp. Signonia capreolata Muscadinia rotundifolia Selsemium sempervirens Menispermum canadense Herbs: Podophyllum peltatum Tarella cordifolia Elaytonia virginica Erythronium umbilicatum Soehmeria cylindrica Virisaema triphyllum Silyceria striata Carex tribuloides Sauruus cernuus Carex radiata	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty Dimpled Trout Lily False-nettle Violet Common Jack-in-the-Pulpit Fowl Mannagrass Sedge Lizard's-tail Sedge Common Eastern Wild-rye Jumpseed	91% 91% 79% 76% 24% 6% 9% 3% 0% 0% 73% 73% 73% 45% 42% 39% 39%	Occasional to Locally Abundan Abundant
Campsis radicans Carthenocissus quinquefolia Carthenocissus quinquefolia Carillax spp. Carillax spp. Carillax spp. Carillax capreolata Carillax capreolata Carillax capreolata Carillax	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty Dimpled Trout Lily False-nettle Violet Common Jack-in-the-Pulpit Fowl Mannagrass Sedge Lizard's-tail Sedge Jumpseed Virginia Bugleweed	91% 91% 79% 76% 24% 6% 9% 3% 0% 0% 73% 73% 73% 49% 45% 42% 39%	Abundant Moderately Abundant
Campsis radicans Carthenocissus quinquefolia Carthenocissus artifolia Carthenocissus quinquefolia Carthenocissus q	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty Dimpled Trout Lity False-nettle Violet Common Jack-in-the-Pulpit Fowl Mannagrass Sedge Lizard's-tail Sedge Common Eastern Wild-rye Jumpseed Virginia Bugleweed River Oats	91% 91% 79% 76% 24% 6% 9% 3% 0% 0% 73% 73% 73% 45% 42% 39% 39%	Abundant Moderately Abundant
Campsis radicans Carthenocissus quinquefolia Carthenocissus quinquefolia Carillax spp. Carillax spp. Carillax spp. Carillax capreolata Carillax capreolata Carillax capreolata Carillax	Virginia-creeper Greenbrier Cross-vine Muscadine Carolina Jessamine Moonseed May-apple Heartleaf Foamflower Little Brown Jug Spring-beauty Dimpled Trout Lily False-nettle Violet Common Jack-in-the-Pulpit Fowl Mannagrass Sedge Lizard's-tail Sedge Jumpseed Virginia Bugleweed	91% 91% 79% 76% 24% 6% 9% 3% 0% 0% 73% 73% 73% 45% 42% 39% 39%	Abundant Moderately Abundant

Page 1

Piedmont Flora by Natural Community UPLAND DEPRESSION SWAMP FOREST - CEGL007403

cvs

Colourido Nomo	O N		Alternation
Scientific Name	Common Name	Constancy	<u>Abundance</u>
Dominant Trees:			
Quercus phellos	Willow Oak	100%	Abundant
Liquidambar styraciflua	Sweet Gum	88%	Abundant
Quercus stellata	Post Oak	36%	Occasional to Locally Abundant
Fraxinus pennsylvanica	Green Ash	32%	Occasional to Educatiy Abditidant
Quercus alba	White Oak	32%	
Carya carolinae-septentrionalis	Carolina Shagbark Hickory	28%	
Fraxinus americana	White Ash	28%	
Liriodendron tulipifera	Tulip-tree	24%	
Quercus lyrata	Overcup Oak	20%	
Carya ovata	Common Shagbark Hickory	12%	
Quercus michauxii	Basket Oak	8%	
Ulmus americana	American Elm	8%	
Quercus bicolor	Swamp White Oak	0%	
Understory Trees:			
Acer rubrum	Eastern Red Maple	76%	Moderately Abundant
Ulmus alata	Winged Elm	76%	
Nyssa sylvatica	Black Gum	68%	
Diospyros virginiana	American Persimmon	64%	
llex decidua	Possum-haw	24%	Occasional to Locally Abundant
Shrubs:	St. Androuis Cross	200/	Occasional to Leaville New deet
Hypericum hypericoides	St. Andrew's Cross	36%	Occasional to Locally Abundant
Vaccinium fuscatum Cephalanthus occidentalis	Hairy Highbush Blueberry Buttonbush	32% 20%	
llex verticillata	Winterberry	12%	
Aronia arbutifolia	Red Chokeberry	4%	
Itea virginica	Virginia-willow	4%	
Viburnum dentatum	Arrow-wood	4%	
Viburnum dentatum			
Viburnum dentatum Vines:			Moderately Abundant
Viburnum dentatum Vines: Smilax spp.	Arrow-wood	4%	Moderately Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans	Arrow-wood Greenbrier Trumpet-creeper Muscadine	4% 68%	Moderately Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthella difformis	Arrow-wood Greenbrier Trumpet-creeper Muscadine Climbing Dogbane	4% 68% 64%	Moderately Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthella difformis Toxicodendron radicans	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy	68% 64% 64% 60% 48%	Moderately Abundant Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper	68% 64% 64% 60% 48% 40%	
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthelia difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison lvy Virginia-creeper Carolina Jessamine	4% 68% 64% 64% 60% 48% 40% 12%	
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper	68% 64% 64% 60% 48% 40%	
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison lvy Virginia-creeper Carolina Jessamine	4% 68% 64% 64% 60% 48% 40% 12%	
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs:	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison lvy Virginia-creeper Carolina Jessamine	4% 68% 64% 64% 60% 48% 40% 12%	
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Tinysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs: Carex joorii	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison lvy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge	4% 68% 64% 64% 64% 48% 40% 12% 8%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthelia difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens	Arrow-wood Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine	4% 68% 64% 64% 60% 48% 40% 12% 8%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthella difformis Toxicodendron radicans Parthenocissus quinque Parthenocis appropriate Parthenoc	Arrow-wood Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass	4% 68% 64% 64% 60% 48% 40% 8%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Biqnonia capreolata Herbs: Carex joorii Danthonia spicata	Arrow-wood Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Vignia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss	4% 68% 64% 64% 60% 48% 40% 12% 8% 48% 32%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthelia diiformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs: Carex joorii Danthonia spicata Climacium americanum - nonvascular Asplenium platyneuron Sphagnum lescurii - nonvascular	Arrow-wood Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort	4% 68% 64% 64% 60% 48% 40% 12% 8% 48% 48% 42%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Tinysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs: Carex joorii Danthonia spicata Cirnacium americanum - nonvascular Asplenium platyneuron Sphagnum lescurii - nonvascular Chasmanthium laxum	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum	4% 68% 64% 64% 60% 48% 40% 12% 8% 48% 48% 24%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Tinysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Biqnonia capreolata Herbs: Carex joorii Danthonia spicata Climacium americanum - nonvascular Asplenium platyneuron Sphagnum lescurii - nonvascular Chasmanthium laxum Carex intumescens	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison lvy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass	4% 68% 64% 64% 60% 48% 40% 12% 8% 48% 32% 24% 24% 20%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs: Carex joorii Danthonia spicata Climacium americanum - nonvascular Asplenium platyneuron Sphagnum lescurii - nonvascular Chasmanthium laxum Carex intumescens Juncus coriaceus	Arrow-wood Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass Greater Bladder Sedge	4% 68% 64% 64% 60% 48% 40% 12% 8% 48% 24% 24% 20% 16%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Tinysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs: Carex joorii Danthonia spicata Climacium americanum - nonvascular Asplenium platyneuron Sphagnum lescurii - nonvascular Chasmanthium laxum Carex intumescens Juncus coriaceus Mitchella repens Carex albolutescens	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass Greater Bladder Sedge Leathery Rush Partridge-berry Greenwhite Sedge	4% 68% 64% 64% 64% 40% 12% 8% 48% 42% 24% 20% 16% 16% 12% 8%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Tinysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Biqnonia capreolata Herbs: Carex joorii Danthonia spicata Ciimacium americanum - nonvascular Asplenium platyneuron Sphaqnum lescurii - nonvascular Chasmanthium laxum Carex intumescens Juncus coriaceus Mitchella repens Carex albolutescens Glyceria striata	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass Greater Bladder Sedge Leathery Rush Partridge-berry Greenwhite Sedge Fowl Mannagrass	4% 68% 64% 64% 64% 40% 12% 8% 48% 48% 24% 22% 16% 16% 16%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Tinysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Biqnonia capreolata Herbs: Carex joorii Danthonia spicata Climacium americanum - nonvascular Asplenium platyneuron Sphagnum lescurii - nonvascular Chasmanthium laxum Carex intumescens Juncus coriaceus Mitchella repens Carex albolutescens Glyceria striata Zephyranthes atamasca	Arrow-wood Greenbrier Trumpet-creeper Muscadine Climbing Doobane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass Greater Bladder Sedge Leathery Rush Partridge-berry Greenwhite Sedge Fowl Mannagrass Common Atamasco-lily	4% 68% 64% 64% 64% 48% 40% 12% 8% 48% 24% 22% 16% 16% 16% 8% 8%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundiolia Thrysanthelia difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs: Carex joorii Danthonia spicata Carex joorii Danthonia spicata Cilmacium americanum - nonvascular Asplenium platyneuron Sphagnum lescurii - nonvascular Chasmanthium laxum Carex intumescens Juncus coriaceus Mitchelia repens Carex albolutescens Glyceria striata Zephyranthes atamasca Eutrochium fistulosum	Arrow-wood Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass Greater Bladder Sedge Leathery Rush Partridge-berry Greenwhite Sedge Fowl Mannagrass Common Atamasco-lify Hollow-stem Joe-pye-weed	4% 68% 64% 64% 64% 40% 12% 8% 48% 32% 24% 22% 16% 16% 16% 12% 8% 8% 8%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Tinysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs: Carex joorii Danthonia spicata Climacium americanum - nonvascular Asplenium platyneuron Sphagnum lescurii - nonvascular Chasmanthium laxum Carex intumescens Juncus coriaceus Mitchella repens Carex albolutescens Glyceria striata Zephyranthes atamasca Eutrochium fistulosum Glyceria septentrionalis	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass Greater Bladder Sedge Leathery Rush Partridge-berry Greenwhite Sedge Fowl Mannagrass Common Atamasco-liiy Hollow-stem Joe-pye-weed Floating Mannagrass	4% 68% 64% 64% 64% 48% 40% 12% 8% 48% 48% 24% 22% 16% 16% 16% 12% 8% 8% 8% 4%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Tinysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs: Carex joorii Danthonia spicata Cirnacium americanum - nonvascular Asplenium platyneuron Sphagnum lescurii - nonvascular Carex intumescens Juncus coriaceus Mitchella repens Carex albolutescens Glyceria striata Zephyranthes atamasca Eutrochium fistulosum Glyceria septentrionalis Pycnanthemum tenuifolium	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass Greater Bladder Sedge Leathery Rush Partridge-berry Greenwhite Sedge Fowl Mannagrass Common Atamasco-lily Hollow-stem Joe-pye-weed Floating Mannagrass Wild-basil	4% 68% 64% 64% 64% 40% 42% 8% 48% 32% 24% 20% 16% 12% 8% 8% 48% 44% 4%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Tinysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Biqnonia capreolata Herbs: Carex joorii Danthonia spicata Climacium americanum - nonvascular Asplenium platyneuron Sphaqnum lescurii - nonvascular Chasmanthium laxum Carex intumescens Juncus coriaceus Mitchella repens Carex albolutescens Glyceria striata Zephyranthes atamasca Eutrochium fistulosum Glyceria septentrionalis Pycnanthemum tenuifolium Eleocharis tenuis	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass Greater Bladder Sedge Leathery Rush Partridge-berry Greenwhite Sedge Fowl Mannagrass Common Atamasco-lily Hollow-stem Joe-pye-weed Floating Mannagrass Wild-basil Slender Spikerush	4% 68% 64% 64% 64% 48% 40% 12% 8% 48% 24% 24% 24% 24% 26% 16% 16% 12% 8% 48% 44% 40%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundiolia Thrysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs: Carex joorii Danthonia spicata Climacium americanum - nonvascular Asplenium platyneuron Sphagnum lescurii - nonvascular Chasmanthium laxum Carex intumescens Juncus coriaceus Mitchella repens Carex albolutescens Glyceria striata Zephyranthes atamasca Eutrochium fistulosum Glyceria septentrionalis Pycnanthemum lesiolium Eleocharis tenuis Juncus offusus	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass Greater Bladder Sedge Leathery Rush Partridge-berry Greenwhite Sedge Fowl Mannagrass Common Atamasco-lily Hollow-stem Joe-pye-weed Floating Mannagrass Wild-basil Slender Spikerush Common Rush	4% 68% 64% 64% 64% 40% 42% 8% 48% 32% 24% 22% 16% 16% 16% 12% 8% 48% 48% 0% 0%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs: Carex joorii Danthonia spicata Climacium americanum - nonvascular Asplenium platyneuron Sphagnum lescurii - nonvascular Chasmanthium laxum Carex intumescens Juncus coriaceus Mitchella repens Carex albolutescens Glyceria striata Zephyranthes atamasca Eutrochium fistulosum Glyceria septentrionalis Pycnanthemum tenuifolium Eleocharis tenuis Juncus effusus Claytonia virginica	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass Greater Bladder Sedge Leathery Rush Partridge-berry Greenwhite Sedge Fowl Mannagrass Common Atamasco-lily Hollow-stem Joe-pye-weed Floating Mannagrass Wild-basil Slender Spikerush Common Rush Spring-beauty	4% 68% 64% 64% 64% 48% 40% 12% 8% 48% 48% 24% 22% 16% 16% 18% 12% 8% 48% 4% 0% 0%	Occasional to Locally Abundant
Viburnum dentatum Vines: Smilax spp. Campsis radicans Muscadinia rotundifolia Thrysanthella difformis Toxicodendron radicans Parthenocissus quinquefolia Gelsemium sempervirens Bignonia capreolata Herbs: Carex joorii Danthonia spicata Climacium americanum - nonvascular Asplenium platyneuron	Greenbrier Trumpet-creeper Muscadine Climbing Dogbane Eastern Poison Ivy Virginia-creeper Carolina Jessamine Cross-vine Joor's Sedge Poverty Oat-grass Tree Moss Ebony Spleenwort Lescur's Sphagnum Slender Spikegrass Greater Bladder Sedge Leathery Rush Partridge-berry Greenwhite Sedge Fowl Mannagrass Common Atamasco-lily Hollow-stem Joe-pye-weed Floating Mannagrass Wild-basil Slender Spikerush Common Rush	4% 68% 64% 64% 64% 40% 42% 8% 48% 32% 24% 22% 16% 16% 16% 12% 8% 48% 48% 0% 0%	Occasional to Locally Abundant