TOWN OF WEAVERVILLE Tree Board Meeting Wednesday January 8, 2025, 6:00 p.m. Agenda

		Pg	
1.	Call to Order		Chairman Kantner
2.	Adoption of Agenda	1	Chairman Kantner
3.	Adopt 2025 Meeting Schedule	2	Chairman Kantner
4.	Approval of Minutes- December 4, 2024	4	Chairman Kantner
5.	Tree Conservation Proposed Regulations	7	Planning Director Eller
6.	Continued CODE Chapter 32, Species List trees and vegetation	15	Chairman Kantner
7.	RFQ Tree Inventory presentation/review	. 28	Member Jeff Colavecchia
8.	Adjournment		

TOWN OF WEAVERVILLE Tree Board AGENDA ITEM

MEETING DATE: January 8, 2025

SUBJECT: Tree Board Meeting Schedule for 2025

PRESENTER: Town Clerk

ATTACHMENTS: Boards and Council Meeting Schedule

DESCRIPTION/SUMMARY OF REQUEST:

A meeting schedule of all the Boards and Committees including Town Council upcoming calendar meetings for 2025.

Adopt and approve the 2025 meeting schedule for the Tree Board.

TOWN of WEAVERVILLE

2025 Council and Boards Meeting Schedule Master

Meeting Type	recurring day	Time	January	February	March	April	May	June
Town Council Workshop	3rd Tuesday	6:00 PM	1/21/25	2/18/25	3/18/25	4/15/25	*5/13/2025	6/17/25
Town Council Budget Wor	kshops	6:00 PM			#1- 3/18	#2- 4/15	#3- 5/13	#4 6/3/2025
Town Council Meetings	4th Monday	6:00 PM	1/27/25	2/24/25	3/24/25	4/28/25	*5/19/25	6/23/25
Planning Board	1st Tuesday	6:00 PM	1/7/25	2/4/25	3/4/25	4/1/25	5/6/25	6/3/25
Board of Adjustment	2nd Monday	6:00 PM	1/13/25	2/10/25	3/10/25	4/14/25	5/12/25	6/9/25
ABC Board	1st Wed. Quarterly	10:00 AM			3/5/25			6/4/25
Tree Board	1st Wed.	6:00 PM	*1/8/2025	2/5/25	3/5/25	4/2/25	5/7/25	6/4/25
Meeting Type	recurring day	Time	July	August	September	October	November	December
Town Council Workshop	3rd Tuesday	6:00 PM	7/15/25	8/19/25	9/16/25	10/21/25	11/18/25	*12/9/2025
Town Council Meetings	4th Monday	6:00 PM	7/28/25	8/25/25	9/22/25	10/27/25	11/24/25	*12/15/2025
Planning Board	1st Tuesday	6:00 PM	7/1/25	8/5/25	9/2/25	10/7/25	*11/6/2025	12/2/25
Board of Adjustment	2nd Monday	6:00 PM	7/14/25	8/11/25	9/8/25	10/13/25	11/10/25	12/8/25
ABC Board	1st Wed. Quarterly	10:00 AM			9/3/25			12/3/25
Tree Board	1st Wed.	6:00 PM	7/2/25	8/6/25	9/3/25	10/1/25	11/5/25	12/3/25
Town Council Workshops a	<u> </u>			•				
Town Council Regular Mee	<u> </u>							
Planning Board Meetings a	Planning Board Meetings are generally held the 1st Tues. of month at 6:00 p.m.							
•	Board of Adjustment Meetings are generally held the 2nd Mon. of month at 6:00 p.m.							
ABC Board on a quarterly b								
Tree Board Meetings are go	Tree Board Meetings are generally held on the 1st Wed. of the month at 6:00 p.m.							
* Adjusted date due to holi	iday or other conflict	or Special Call	ed meeting					
Election Day- Tues. November 4, 2025								



Tree Board - Dec 04 2024 Minutes

Wednesday, December 4, 2024 at 6:00 PM Town Council Chambers, Town Hall

The Tree Board held a regular meeting on Wednesday, December 4, 2024 at 6:00 p.m. in Town Council Chambers, 30 S. Main Street, Weaverville, N.C.

1. Call to Order

Present: Chairman Russ Kantner, Pauline Griffith, Inger Stallmann Jorgensen, Jeff Colavecchia, Caroline Lord, Gary Harmon, and Greg Sanfilippo.

Absent: Caleb Hudson

Staff Present: Tamara Mercer, Town Clerk

2. Adopt or Amend Agenda

Without objection, Chairman Kantner moved to adopt the agenda.

Carried unanimously.

3. Approval of Minutes

Without objection Ms. Stallmann Jorgensen moved to approve and adopt the meeting minutes of November 6, 2024.

Carried unanimously.

4. Code Chapter 32, Species List-trees and vegetation

4.1 General discussion began wherein Ms. Griffith questioned why perennials were not included in the preferred species list as there are invasive perennials. Further discussion regarding vines such as winter

creeper and other invasive species and grasses sold at garden centers were noted.

In response to Mr. Harmon's question regarding not allowing invasive species to be planted, Ms. Mercer stated that as far as code enforcement, fines, or penalties, these were not defined in the code, and as such would need to be addressed by the Attorney's Office and Planning Department for code enforcement. The purview of the Tree Board as a recommending body, is to revise the species list with a favorable recommendation presented to Town Council. It is upon the Town Council to consider the adoption of an updated species list.

Also noted by Ms. Griffith was the need for a comprehensive species list addressing soil types, sub straights, dampness, shade, loams, slopes and native bird friendly plants versus non-native types.

Mr. Harmon noted the Red Oak were adversely impacted by the Helene storm and due to climate change. Grant opportunities maybe found at www.retreet.org and United Way, stated Ms. Griffith.

After further deliberations, Ms. Griffith volunteered to research the species list categories for: vines, small, medium and large shrubs, and ferns. Ms. Stallmann Jorgensen volunteered to work on the grasses, sedges, and ground cover species list. Mr. Harmon volunteered to concentrate on the trees categories for small to medium and medium to large trees.

Recommendations to be discussed at the January 8, 2025, Tree Board meeting.

Mr. Harmon pointed out his notes in the excel spreadsheet for the changes of species names, website links notations, and possible removal of non-native species on the list.

5. Prioritize section of Town to conduct Tree Inventory

5.1 Chairman Kantner reviewed the importance of conducting the tree inventory especially in the aftermath of Hurricane Helene's destruction of the tree canopy. Discussion ensued regarding the Main Street Nature Park, which is contiguous to the Town Hall facility, invasive plants, and public education, and the pollinator garden in the Nature Park which is maintained by the Garden Club.

Ms. Stallmann commented that Lake Louise Park should have more shade trees to enhance the summer environment creating a more positive impact.

Chairman Kantner polled the board members as to their priority focus and there was general consensus to begin at Lake Louise Lakeshore Drive with the Phase I location from the waterwheel to the Outdoor Recreation courts and Phase II inventory would be the Town's property from Lake Louise to the open space past the Public Works facility on Quarry Road.

Ms. Lord also suggested that the inventory surrounding Lake Louise would include tree plaque identifiers. An emphasis on conducting the tree inventory includes identifying heritage trees.

Mr. Colavecchia volunteered to draft an RFQ (request for quote) for contracting for a tree inventory, the deliverables to include methodology specs, and GIS mapping locations. The tree survey within the defined area should include size, species, location, and overall health and condition of the Town's trees.

6. Other Business- Board member appointment re-visit

Ms. Mercer reviewed the timeline for a possible Tree Board appointments at the upcoming Town Council's January meeting in 2025.

Chairman Kantner noted that February 24 - 28 is native species week, and this information will be dispersed in order to educate the public through the Town's social media posts. Upcoming seminars will also be posted in the social media accounts for December which address the topics of conservancy and forest recovery in the wake of Hurricane Helene, notably a December 18th seminar by EcoForesters.

7. Adjournment

7.1 There being no further business, Chairman Kantner adjourned the meeting at 7:20 p.m.

Tamara Marsar Tayun Clark	
Tamara Mercer, Town Clerk	

TOWN OF WEAVERVILLE

TREE BOARD AGENDA ITEM

Date of Meeting: Wednesday, January 8, 2025

Subject: Study of Tree Conservation Regulations

Presenter: Planning Director

Attachments: Staff Report, Sec. 20-2309 Conservation Subdivision Standards,

Report on Undeveloped Parcels

Description:

The current goals of the Comprehensive Land Use Plan (CLUP), last updated in November 2023, call for the consideration of tree conservation regulations. The goal of considering the tree conservation regulation was also given number 2 (medium) priority within the CLUP giving staff the direction to accomplish or address the stated goal within 24 months.

Continuing on the previous month's conversation, additional information is being provided related to recently enacted conservation subdivision standards and large undeveloped or underutilized parcels within municipal borders.

Action Requested:

None.

Previously prepared for the Planning Board in order to provide a recommendation to Town Council on an action item within the Comprehensive Land Use Plan.

TOWN OF WEAVERVILLE

PLANNING BOARD AGENDA ITEM

Date of Meeting: Tuesday, January 7, 2025

Subject: Study of Tree Conservation Regulations

Presenter: Planning Director

Attachments: Staff Report, Sec. 20-2309 Conservation Subdivision Standards,

Report on Undeveloped Parcels

Description:

The current goals of the Comprehensive Land Use Plan (CLUP), last updated in November 2023, call for the consideration of tree conservation regulations. The goal of considering the tree conservation regulation was also given number 2 (medium) priority within the CLUP giving staff the direction to accomplish or address the stated goal within 24 months.

Continuing on the previous month's conversation, additional information is being provided related to recently enacted conservation subdivision standards and large undeveloped or underutilized parcels within municipal borders.

Action Requested:

Staff is seeking a conversation with the Board so an ordinance amendment may be drafted for review at a future meeting.

Town of Weaverville, North Carolina

Staff Report: Parking Standards

Prepared August 2024

Sources: Town of Weaverville Code of Ordinances; Comprehensive Land Use Plan

Comprehensive Land Use Plan Stated Goal and Background Information

The current goals of the Comprehensive Land Use Plan (CLUP), last updated in November 2023, call for the study and consideration of tree conservation regulations. The goal of considering tree conservation regulations was also given number 2 (medium) priority within the CLUP giving staff the direction to accomplish or address the stated goal within 24 months.

Exiting Conditions - Landscaping Regulations, Conservation Subdivision, and Vegetation

Current town ordinance requires development of a certain type or scope to comply with landscape regulations. These regulations include the submittal of a landscape plan, landscaping requirements that require at least 5% of the subject property to be landscaped, street tree requirements, and landscaping requirements for off street parking and loading areas. These landscape regulations do provide a credit for existing trees of a certain size to be preserved instead of planting new required trees so there exists a build in incentive if it is chosen by the property owner.

Not included for spatial considerations, the landscaping regulations may be found at the following link: https://library.municode.com/nc/weaverville/codes/code of ordinances?nodeId=PTIICOOR CH20PLDE PTIIIZORE ARTIVLARE

These landscape regulations <u>are not</u> applicable to land used for the following purposes.

- Single-family residences
- Duplex residences
- Properties located within the C-1 central business district

In January 2024 the town implemented conservation subdivision standards which were incorporated into the subdivision ordinance. These standards now require that all subdivisions of 25 lots or more be comprised of at least 25% of conservation area and set the standards for how this open space may be used. These stands, in part, require that this open space may be used for the conservation of natural resources; and/or agriculture, horticulture, or silviculture.

The town also has a vegetation ordinance which is overseen by a combination of municipal staff and the Tree Board. The primary focus of the vegetation ordinance is on trees and vegetation within puclic street rights-of-way, town parks, and town owned property. These regulations <u>are not</u> applicable to private property. The newly reestablished Tree Board meets on a semi-monthly basis to discuss public tree care. A Tree Board is a requirement of the Arbor Day Foundation which administers the Tree City USA program the town has applied for and received for many years now.

Town of Weaverville, North Carolina

Staff Report: Parking Standards

Prepared August 2024

Sources: Town of Weaverville Code of Ordinances; Comprehensive Land Use Plan

Not included for spatial considerations, the landscaping regulations may be found at the following link: https://library.municode.com/nc/weaverville/ordinances/code of ordinances?nodeId=1291170

Other Jurisdictions

Similar to the town's regulations, The Town of Black Mountain does not apply their landscape regulations to single- and two-family residential uses and provide an exemption to properties located in their central business district. They also allow variances from their landscaping requirements based upon subjective standards which are heard by the Board of Adjustment.

The Town of Brevard also exempts properties developed for single family and duplex uses. Where Brevard and Weaverville differ is that Brevard has a Main Street National Historic District, which is administered by Transylvania County Planning and Development. Trees within this historic district are afforded protection in the City of Brevard's tree protection standards.

General Information

At present date, there are 2,684 parcels of land within the Town of Weaverville. Of these parcels, 1,474 are zoned R-1 and 644 are zoned R-2. While there will never be a clean 1 to 1 ratio of structure to property, or more specifically undeveloped parcels, this does represent 2,118 parcels zoned for single-and two-family use which are currently largely exempt from the landscaping and/or or tree reservation ordinances of the town's of Weaverville, Black Mountain, and Brevard.

Similar to the town's conservation subdivision, Black Mountain and Brevard may have similar standards in their subdivision ordinance which could be applicable but staff did not have sufficient time to confirm.

Sec. 20-2309. Conservation subdivision standards.

The following additional standards shall apply to all subdivisions proposing 25 lots or more:

- (a) Open space shall:
 - (1) Comprise a minimum of 25 percent of the project area. Floodplain areas are allowed to be calculated for both density and open space requirements.
 - (2) Be composed of (in order of which lands should be designated as open space first): primary conservation area, secondary conservation area, and any remaining lands necessary.
 - (3) Be designated so that a minimum of 50 percent of the proposed open space is contiguous and, where possible, adjoins open space or other protected areas (including protected forests or wildlife areas) outside the project area.
 - (4) Be accessible by safe and convenient pedestrian access from all adjoining lots (except in the case of farmland or other resource areas vulnerable to trampling damage or human disturbance).
 - (5) Be used as follows:
 - i. Conservation of natural resources, archaeological resources or historical resources;
 - ii. Agriculture, horticulture or silviculture, provided all applicable best management practices are used to minimize environmental impacts;
 - iii. Passive recreation
 - iv. Active recreation provided impervious surfaces are limited to a maximum of 12 percent of the total open space area;
 - v. Nonstructural stormwater management practices;
 - vi. Easements for drainage, access, and utility lines; and
 - vii. Water, septic and sewer systems.
- (b) Open space ownership. The applicant must identify current and future owners of open space responsible for maintaining the area and/or facilities. The responsibility for maintaining the open space and its facilities shall be borne by the owner. If a homeowners' association is the owner:
 - (1) Membership in the association shall be mandatory and automatic for all homeowners in the subdivision and their successors; and
 - (2) The association shall have lien authority to ensure the collection of dues from all members.
- (c) Open space management. The applicant shall submit an open space management plan which includes:
 - (1) A statement allocating maintenance responsibilities and establishing guidelines for the upkeep of open space and its facilities.
 - (2) Cost estimates for maintenance, operation and insurance needs for the open space.
 - (3) A means by which funds will be obtained for all management expenses.
 - (4) A provision allowing the subdivision administrator to approve plan change; and
 - (5) Criteria for plan enforcement.
- (d) Legal instrument for permanent protection. Open space shall be protected in perpetuity by a binding legal document recorded with the deed. The document shall be one of the following:

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- (1) Permanent conservation easement in favor of either:
 - (i) A land trust or similar conservation oriented non-profit organization with legal authority to accept such easements. The organization shall be bona fide and in perpetual existence and the conveyance instruments shall contain an appropriate provision for retransfer in the event the organization becomes unable to carry out its functions; or
 - (ii) A governmental entity with an interest in pursuing goals consistent with the intentions of this section.
- (2) Permanent restrictive covenant for conservation purposes.
- (3) Equivalent legal tool providing permanent protection, subject to approval by the Town Attorney. The instrument shall include all restrictions contained in Section 20-2309 conservation subdivision standards and any further restrictions the applicant chooses to place on the use of the open space.
- (e) Open space density bonus. Base density is determined by the zoning district in which the subdivision is located. Conservation subdivisions proposing more than the minimum required open space may be eligible for increased densities. The following table outlines the criteria for density bonuses. Lands under conservation easement shall not be counted when determining density bonuses.

Open Space Density Bonuses:

Percent Open Space (%)	25-30	31-40	41-50	>50
Percent Housing Density Increases (%)	N/A	10	15	20

- (f) Structure Placement. Structures should be placed as closely to internal roads as permitted. Structures may be:
 - (1) Located in the side yard setback of other structures within the development required by the zoning district; and
 - (2) Placed as closely together as permitted by the North Caroline State Building Code.

(Ord. of 1-22-2024(1), § 8)

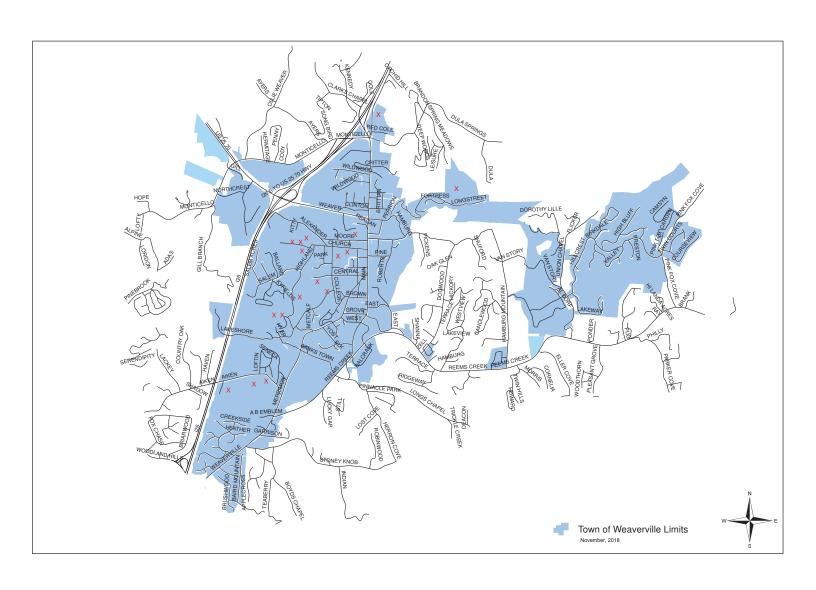
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Undeveloped or Underu	tilized Parcels of Si	ze within Munici	ipal Borders	
Address	PIN	Zoning District	Acres	Units
105 Church	9742-08-0900	R-1	3.55	15
11 Lakeshore	9742-16-0551	R-2	5.51	32
123 Highland	9732-95-2862	R-1	12.22	53
210 Aiken	9732-83-8176; 9732-83-6223	R-3	5.96	48
300 Aiken	9732-82-3831	R-3	12.66	101
41 N. Buncombe School	9743-33-5799	R-3	3.47	28
68 Highland	9742-06-4501	R-1	7.11	31
93 Church	9742-08-6733	R-1	2.93	13
96 Church	9742-98-9331	R-1	4.87	21
99 Church	9742-08-3833	R-1	3	13
Unaddressed Central	9742-06-9911	R-1	6.5	28
Unaddressed Church	9742-28-1340; 9742-27-2925	R-1	2.56	11
Unaddressed College	9742-17-9929	R-1	2.1	9
Unaddressed Highland	9732-96-8026	R-1	5.07	22
Unaddressed Moore	9742-28-5986	R-1	2.29	10
Unaddressed Perrion	9743-61-3054	R-1	33.32	145
Unaddressed Hickory	9732-72-5148	R-3	33.75	270
			Total Acres:	146.87
			Total Units:	850

Listed units are a theoretical maximum based solely upon the minimum lot area of the zoning district and the acreage present on the subject parcel. Other variables such as minimum lot width, minimum street frontage, setbacks, existing easements, road construction or topography have not been accounted for. Hence the need for preliminary plat engineering. For instance, 108 Church Street recently before the Board carried a theoretical maximum of 12 lots but was only able to achieve 5. 50% of the units listed probably represents a more accurate assessment of units that may translate to the ground.

Properties previously subject to some form of development approval have not been included.



TOWN OF WEAVERVILLE TREE BOARD AGENDA ITEM

MEETING DATE: January 8, 2025

SUBJECT: Tree Board Chapter 32 Species List

PRESENTER: Chairman Kantner

ATTACHMENTS: reference excel spreadsheet, due to data base size and

format, it will not be attached here

DESCRIPTION: Tree Board to conduct review of species list

Continued from Dec. 4th meeting, the species plant list revision.

Weaverville approved plants list from Chapter 32, vegetation has been assigned to various Tree Board members for individual review. Their recommendations to be brought before the Board for further deliberations.

On 12/4/2024 the species list was tabbed to include the trees according to size, as well as the plant list format. Board members seek to cull this list to exclude/include some plantings no longer relevant to our region, and seek additional input from arborists, foresters, the general public, and landscapers in the aftermath of our region hit by Hurricane Helene as a great loss of the tree canopy has occurred.

Botanical Name	Common Name	Expected Height	Web page
Small Shrubs (up to approximately 4' tall)			
Ceanothus americanus	New Jersey Tea	3	Ceanothus americanus (Mountain Snowbell, New Jersey Tea) North Carolina
Diervilla Ionicera	Northern Bush-honeysuckle	3	<u>Diervilla lonicera (Northern Bush-honeysuckle) - FSUS (unc.edu)</u>
Fothergilla gardenii	Dwarf Witchalder	4	Fothergilla gardenii (Coastal Witch-alder, Dwarf Fothergilla) North Carolina Ex
Hypericum frondosum	Cedarglade St. Johnswort	3	Hypericum frondosum (Cedarglade St. Johnswort, St. John's wort) North Caro
Hypericum prolificum	Shrubby St. Johnswort	4	Hypericum prolificum (Common St. John's Wort, Shrubby St. John's Wort, St. Jc
Xanthorhiza simplicissima	Yellowroot	2	Xanthorhiza simplicissima (Brook-feather, Parsley-leaved Yellowroot, Scurvyroc
Medium Shrubs (appr	oximately 5-10' tall)		
Aronia arbutifolia	Red Chokeberry	8	Aronia arbutifolia (Chokeberry, Red Chokeberry) North Carolina Extension Ga
Aronia melanocarpa	Black Chokeberry	5	Aronia melanocarpa (Black Berried Aronia, Black Chokeberry) North Carolina
Callicarpa americana	American Beautyberry	6	Callicarpa americana (American Beautyberry, American Mulberry, Beautyberry
Calycanthus floridus	Sweetshrub	9	Calycanthus floridus (Bubby Bush, Carolina Allspice, Common Sweetshrub, Spic
Corylus americana	Hazelwood	10	Corylus americana (American Filbert, American Hazelnut, Hazelnut) North Car
Cornus amomum	Silky Dogwood	7	Cornus amomum (Kinnikinnik, Pale Dogwood, Red Willow, Silky Cornel, Silky Do
Euonymus americanus	Hearts-a-Bustin'	8	Euonymus americanus (Hearts A'busting, Strawberry Bush) North Carolina Ex
Fothergilla latifolia (F. major)	Mountain Witchalder	6	Fothergilla latifolia (Large Fothergilla, Large Witch-alder) North Carolina Exter
Hydrangea arborescens	Wild Hydrangea	6	Hydrangea arborescens (Hills of Snow, Hortensia, Hydrangea, Sevenbark, Sever
Hypericum densiflorum	Bushy St. Johnswort	6	Hypericum densiflorum (Bushy St. John's Wort, Dense St. John's Wort) North
Itea virginica	Virginia Sweetspire	10	Itea virginica (Itea, Virginia Sweetspire, Virginia Sweet Spire, Virginia Willow)
Kalmia latifolia	Mountain Laurel	6	Kalmia latifolia (Calico Bush, Ivy Bush, Laurel, Mountain Ivy, Mountain Laurel, S
Lindera benzoin	Spicebush	10	Lindera benzoin (Northern Spicebush, Spicebush, Spice Bush) North Carolina
Photinia melanocarpa	Black Chokeberry	8	Now Aronia mealanocarpa - see above
Photinia pyrifolia	Red Chokeberry	5	Now Aronia arbutifolia - see above
Physocarpus opulifolius	Ninebark	10	Physocarpus opulifolius (Atlantic Ninebark, Common Ninebark, Eastern Nineba
Rhododendron calendulaceum	Flame Azalea	10	Rhododendron calendulaceum (Flame Azalea) North Carolina Extension Gard
Rhododendron minus (R. carolinianum)	Carolina Rhododendron	6	Rhododendron minus (Carolina Rhododendron, Dwarf Rhododendron, Minus,
Rhododendron catawbiense	Catawba Rhondendron	8	Rhododendron catawbiense (Catawba Rhododendron, Mountain Rosebay, Pur
Rhododendron cumberlandense	Cumberland Azalea	8	Rhododendron cumberlandense (Cumberland Azalea) North Carolina Extension
Rhododendron periclymenoides	Pinxterbloom	8	Rhododendron periclymenoides (Pinxterbloom Azalea, Pinxter Flower, Wild Az
Rhus copallinum (R.copallina)	Shining Sumac	8	Rhus copallinum (Dwarf Sumac, Flameleaf Sumac, Shining Sumac, Winged Sum
Rosa carolina	Carolina Rose	5	Rosa carolina (Carolina Rose, Pasture Rose) North Carolina Extension Garden
Rosa palustris	Swamp Rose	8	Rosa palustris (Swamp Rose) North Carolina Extension Gardener Plant Toolbo

Sambucus canadensis Elderberry 10	Sambucus canadensis (American Elder, American Elderberry, Common Elderbe
Spiraea virginiana Virginia Meadowsweet 8	Spiraea virginiana (Virginia Spiraea) - FSUS (unc.edu)
Viburnum acerifolium Mapleleaf Viburnum 6	Viburnum acerifolium (Maple Leaf Viburnum, Mapleleaf Viburnum) North Ca
Viburnum dentatum Southern Arrowwood 10	Viburnum dentatum (Arrow-wood Viburnum, Arrowwood Viburnum, Southern
Viburnum nudum Possumhaw Viburnum 8	Viburnum nudum (Possumhaw Viburnum, Smooth Witherod, Southern Wild Ra
Tall Shrubs (over approximately 10' tall)	
Alnus serrulata Hazel Alder 12	Alnus serrulata (Alder, Hazel Alder, Smooth Alder, Tag Alder) North Carolina E
Castanea pumila Allegheny Chinquapin 14	Castanea pumila (Allegheny Chinquapin, American Chinquapin, Chinquapin, Co
Cephalanthus occidentalis Buttonbush 15	Cephalanthus occidentalis (Buttonbush, Button Bush) North Carolina Extensic
Clethra acuminata Cinnamon Clethra 12	Clethra acuminata (Cinnamonbark Clethra, Cinnamon Clethra, Mountain Peppe
Hamamelis virginiana Common Witchhazel 15	Hamamelis virginiana (Common Witchhazel, Common Witch Hazel, Southern V
Ilex decidua Possumhaw 30	Ilex decidua (Possumhaw, Possum-haw, Possum Haw Holly, Possumhaw Holly,
Ilex montana Mountain Winterberry 30	Ilex montana (Mountain Holly, Mountain Winterberry) North Carolina Extens
Lindera benzoin Spicewood 12	Lindera benzoin (Northern Spicebush, Spicebush, Spice Bush) North Carolina
Prunus virginiana Chokecherry 20	Prunus virginiana (Chokecherry, Choke Cherry, Common Chokecherry) North
Rhododendron arborescens Sweet Azalea 18	Rhododendron arborescens (Smooth Azalea, Sweet Azalea) North Carolina Ex
Rhododendron maximum Rosebay Rhododendron 20	Rhododendron maximum (Great Rhododendron, Max, Rosebay Rhododendron
Rhododendron vaseyi Pinkshell Azalea 12	Rhododendron vaseyi (Pinkshell Azalea) North Carolina Extension Gardener P
Rhododendron viscosum Swamp Azalea 15	Rhododendron viscosum (Clammy Azalea, Swamp Azalea, Swamp Honeysuckle
Rhus glabra Smooth Sumac 12	Rhus glabra (Smooth Sumac) North Carolina Extension Gardener Plant Toolbo
Rhus typhina Staghorn Sumac 20	Rhus typhina (Staghorn Sumac) North Carolina Extension Gardener Plant Too
Vaccinium corymbosum Highbush Blueberry 12	Vaccinium corymbosum (Highbush Blueberry, Smooth Highbush Blueberry) N
Viburnum cassinoides Witherod 15	Viburnum cassinoides (Blue Haw, Northern Wild Raisin, Swamp Haw, Wild Raisi
Viburnum prunifolium Blackhaw Viburnum 16	Viburnum prunifolium (Blackhaw, Black Haw, Blackhaw Viburnum, Nannyberry
Viburnum rufidulum Rusty Blackhaw Viburnum 15	Viburnum rufidulum (Rusty Blackhaw, Rusty Black Haw, Rusty Blackhaw Viburn
Small to Medium Trees (to approximately 50 ft. tall)	
Amelanchier arborea Downy Serviceberry 25	Amelanchier arborea (Alabama Serviceberry, Downy Serviceberry, Juneberries,
Amelanchier laevis Allegheny Serviceberry 25	Amelanchier laevis (Allegheny Serviceberry, Coastal Plain Serviceberry, June Be
Asimina triloba Pawpaw 25	Asimina triloba (Common Pawpaw, Pawpaw) North Carolina Extension Garde
Carpinus caroliniana American Hornbeam 30	Carpinus caroliniana (American Hornbeam, Blue Beech, Hornbeam, Ironwood,
Cercis canadensis Redbud 25	Cercis canadensis (American Judas Tree, American Redbud, Eastern Redbud, Re
Chionanthus virginicus Fringetree 25	Chionanthus virginicus (American Fringetree, American Fringe Tree, Fringetree,
Cladrastis kentukea Yellowwood 50	Cladrastis kentukea (American yellowwood, Yellowwood) North Carolina Exte

Cornus alternifolia	Alternateleaf Dogwood	25	Cornus alternifolia (Alternate-leaf Dogwood, Alternateleaf Dogwood, Pagoda D
Cornus florida	Flowering Dogwood	25	Cornus florida (Flowering Dogwood) North Carolina Extension Gardener Plant
Cornus kousa x florida*	Chinese x Flowering Dogwood hybrid	25	
Crataegus phaenopyrum	Washington Hawthorn	25	Crataegus phaenopyrum (Hawthorn, Thornapple, Washington Hawthorn) Noi
Frangula caroliniana	Carolina Buckthorn	35	Frangula caroliniana (Carolina Buckthorn) North Carolina Extension Gardener
Halesia carolina (H. tetraptera)	Mountain Silverbell	40	Halesia carolina (Carolina Silverbell, Common Silverbell, Little Silverbell, Mount
llex opaca	American Holly	30	Ilex opaca (American Holly, Holly, Winterberry) North Carolina Extension Gard
Juniperus virginiana	Eastern Red Cedar	50	Juniperus virginiana (Eastern Redcedar) North Carolina Extension Gardener Pl
Malus angustifolia	Southern Crabapple	25	Malus angustifolia (Narrowleaf Crab, Narrowleaf Crabapple, Southern Crabapple)
Malus coronaria	Sweet Crabapple	20	Malus coronaria (American Crabapple, Garland Crab, Sweet Crabapple, Wild Cr
Magnolia acuminata	Mountain magnolia	40	Magnolia acuminata (Cucumber Magnolia, Cucumber Tree, Cucumber-tree, Cu
Magnolia tripetala	Cucumber Tree	30	Magnolia tripetala (Umbrella Magnolia, Umbrella-tree) North Carolina Extens
Ostrya virginiana	Eastern Hophornbeam	40	Ostrya virginiana (American Hop-hornbeam, Eastern Hop Hornbeam, Hop Horn
Oxydendrum arboreum	Sourwood	30	Oxydendrum arboreum (Lily of the Valley Tree, Sorrel Tree, Sourwood) North
Prunus americana	American Plum	25	Prunus americana (American Plum, American Wild Plum, Wild Plum) North Ca
Ptelea trifoliata	Hoptree	20	Ptelea trifoliata (Hoptree, Hop-tree, Stinking Ash, Wafer-ash) North Carolina I
Robinia viscosa	Clammy Locust	40	Robinia viscosa (Clammy Locust) - FSUS (unc.edu)
Salix sericea	Silky Willow	12	Salix sericea (Silky Willow) North Carolina Extension Gardener Plant Toolbox (
Sassafras albidum	Sassafras	40	Sassafras albidum (Cinnamon Wood, Common Sassafras, Mitten Tree, Sassafras
Stewartia ovata	Mountain Stewartia	20	Stewartia ovata (Mountain Camellia, Mountain Stewartia, Summer Dogwood)
Symplocos tinctoria	Horse Sugar	30	Symplocos tinctoria (Horsesugar, Horse-sugar, Sweetleaf) North Carolina Exte
Medium to Large Trees (ove	r approximately 50 ft. tall)		
Acer negundo	Boxelder	60	Acer negundo (Ash-Leaf Maple, Ashleaf maple, Boxelder, Box elder) North Ca
Acer rubrum	Red Maple	70	Acer rubrum (Carolina Maple, Red Maple, Scarlet Maple, Soft Maple, Swamp N
Acer saccharinum	Silver Maple	80	Acer saccharinum (River Maple, Silverleaf Maple, Silver Maple, Swamp Maple,
Acer saccharum	Sugar Maple	80	Acer saccharum (Hard Maple, Leucoderme, Northern Sugar Maple, Sugar Mapl
Aesculus flava	Yellow Buckeye	70	Aesculus flava (Big Buckeye, Sweet Buckeye, Yellow Buckeye) North Carolina
Betula alleghaniensis	Yellow Birch	75	Betula alleghaniensis (Golden Birch, Swamp Birch, Yellow Birch) North Carolir
Betula nigra	River Birch	70	Betula nigra (Black Birch, Red Birch, River Birch, Water Birch) North Carolina E
Carya cordiformis	Bitternut Hickory	75	Carya cordiformis (Bitter Hickory, Bitternut, Bitternut Hickory, Bitter Pecan, Pig
Carya glabra	Pignut Hickory	80	Carya glabra (Broom Hickory, Coast Pignut Hickory, Pignut, Pignut Hickory, Red
Carya ovata	Shagbark Hickory	75	Carya ovata (Common Shagbark Hickory, Shagbark Hickory) North Carolina Ex
Carya pallida	Sand Hickory	90	Carya pallida (Pale Hickory, Sand Hickory) North Carolina Extension Gardener
Carya tomentosa	Mockernut Hickory	85	Carya tomentosa (Big-bud Hickory, Mockernut Hickory, Squarenut, White Hear

Castanea dentata**	American Chestnut	115	1
castanca dentata	American enestriat	(potential)	Castanea dentata (American Chestnut, Chestnut) North Carolina Extension Ga
Celtis occidentalis	Hackberry	60	Celtis occidentalis (American Hackberry, Beaverwood, Common Hackberry, Fal
Diospyros virginiana	Persimmon	55	Diospyros virginiana (American Persimmon, Common Persimmon, Date Plum, I
Fagus grandifolia	American Beech	80	Fagus grandifolia (American Beech, Beech, Beechnut Tree, Red Beech, Ridge Be
Fraxinus americana	White Ash	80	Fraxinus americana (American Ash, White Ash) North Carolina Extension Garc
Fraxinus pennsylvanica	Green Ash	80	Fraxinus pennsylvanica (American Ash, Canadian Ash, Green Ash, Red Ash, Wat
Juglans nigra	Black Walnut	100	Juglans nigra (Black Walnut) North Carolina Extension Gardener Plant Toolbox
Liquidambar styraciflua	Sweetgum	75	Liquidambar styraciflua (American Sweet Gum, Redgum, Red Sweet Gum, Swee
Liriodendron tulipifera	Tuliptree	100	Liriodendron tulipifera (Canary Whitehood, Canoewood, Lyre Tree, North Ame
Magnolia fraseri	Umbrella Tree	60	Magnolia fraseri (Earleaf Cucumber Tree, Earleaf Magnolia, Earleaf Umbrella Tr
Morus rubra	Red Mulberry	60	Morus rubra (Common Mulberry, Mulberry, Red Mulberry) North Carolina Ex
Nyssa sylvatica	Black Gum	60	Nyssa sylvatica (Blackgum, Black Gum, Black Tupelo, Common Tupelo Tree, Cot
Pinus echinata	Shortleaf Pine	100	Pinus echinata (Old-Field Pine, Rosemary Pine, Short-Leaf Pine, Shortleaf Pine,
Pinus strobus	Eastern White Pine	80	Pinus strobus (Eastern White Pine, North American White Pine, Northern White
Pinus virginiana	Virginia Pine	70	Pinus virginiana (Jersey Pine, Possum Pine, Scrub Pine, Spruce Pine, Virginia Pin
Platanus occidentalis	Sycamore	100	Platanus occidentalis (American Plane Tree, American Sycamore, Buttonball Tre
Prunus serotina	Black Cherry	80	Prunus serotina (Black Cherry, Wild Cherry, Wild Rum Cherry) North Carolina
Quercus alba	White Oak	90	Quercus alba (American White Oak, Eastern White Oak, Forked-leaf White Oak
Quercus coccinea	Scarlet Oak	70	Quercus coccinea (Black oak, Scarlet oak) North Carolina Extension Gardener
Quercus falcata	Southern Red Oak	75	Quercus falcata (Oaks, Southern Red Oak, Swamp Red Oak, Swamp Spanish Oa
Quercus imbricaria	Shingle Oak	80	Quercus imbricaria (Laurel, Oaks, Shingle Oak) North Carolina Extension Gard
Quercus montana	Chestnut Oak	75	Quercus montana (Basket Oak, Chestnut Oak, Oaks, Rock Chestnut Oak, Rock C
Quercus muehlenbergii	Chinkapin Oak	70	Quercus muehlenbergii (Chinkapin Oak, Chinquapin Oak, Oaks) North Carolin
Quercus rubra	Red Oak	75	Quercus rubra (American Red Oak, Eastern Red Oak, Mountain Red Oak, North
Quercus stellata	Post Oak	80	Quercus stellata (Oaks, Post Oak) North Carolina Extension Gardener Plant To
Quercus velutina	Black Oak	90	Quercus velutina (Black Oak, Eastern Black Oak, Yellow Oak) North Carolina E
Salix nigra	Black Willow	80	Salix nigra (Black Willow) North Carolina Extension Gardener Plant Toolbox (n
Tilia americana	American Linden or	80	
	Basswood		Tilia americana (American Basswood, American Linden, Basswood, Bee Tree, Ci
Tsuga canadensis***	Eastern Hemlock	90	Tsuga canadensis (Canada hemlock, Canadian Hemlock, Eastern Hemlock, Hem
Tsuga caroliniana***	Carolina Hemlock	65	Tsuga caroliniana (Carolina Hemlock) North Carolina Extension Gardener Plar
Ulmus alata	Winged Elm	80	Ulmus alata (Cork Elm, Small Leaf Elm, Wahoo, Winged Elm, Witch Elm) Nort
		. <u> </u>	

Vines							
Bignonia capreolata	Cross Vine						
Campsis radicans	Trumpet Flower						
Clematis virginiana	Clematis (Virgin's Bower)						
Lonicera sempervirens	Coral Honeysuckle						
Parthenocissus quinquefolia	Virginia Creeper						
Wisteria frutescens	American Wisteria						
Ground Covers							
Antennaria plantaginifolia	Pussytoes						
Asarum canadense	Wild Ginger						
Carex sp.	Sedges (see below)						
Chrysogonum virginianum var. australe	Green-and-Gold						
Iris cristata	Dwarf Crested Iris						
Meehania cordata	Creeping Mint						
Pachysandra procumbens	Allegheny Spurge						
Phlox stolonifera	Creeping Phlox						
Tiarella cordifolia	Heartleaf Foamflower						
Viola sp.	Violets						
Grasses & Sedge	s						
Andropogon gerardii	Big Bluestem						
Andropogon virginicus	Broomsedge						
Arundinaria gigantea	Giant Cane						
Carex flaccosperma	Blue Wood Sedge						
Carex platyphylla	Blue Satin Sedge						
Carex plantaginea	Seersucker Sedge						
Carex stricta	Tussock Sedge						
Carex pensylvanica	Oak Sedge						
Carex appalachica	Appalachian Sedge						
Chasmanthium latifolium	River Oats						
Danthonia compressa	Oat Grass						

Bignonia capreolata (Crossvine, Cross-Vine, Trumpet Flower) | North Carolina E Campsis radicans (Cow-itch, Cow Vine, Devil's Shoestring, Foxglove Vine, Hellvi Clematis virginiana (Devil's Darning Needles, Old Man's Beard, Virgin's-Bower, Lonicera sempervirens (Coral Honeysuckle, Honeysuckle, Trumpet Honeysuckle Parthenocissus quinquefolia (Virginia Creeper, Virginia-creeper, Woodbine) | N Wisteria frutescens (American Wisteria, Kentucky Wisteria, Texas Wisteria) | N

Antennaria plantaginifolia (Everlasting, Ladies' Tabacco, Mouse Ear, Plantain-Le Asarum canadense (Canadian Wild Ginger, Common Wild Ginger, Wild Ginger)

<u>Carex | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)</u> <u>Chrysogonum virginianum (Green and Gold) | North Carolina Extension Garder</u>

<u>Iris cristata (Crested Iris, Dwarf Crested Iris, Iris) | North Carolina Extension Gar Meehania cordata (Meehania) - FSUS (unc.edu)</u>

Pachysandra procumbens (Allegheny Spurge, Mountain Pachysandra) | North (

Phlox stolonifera (Creeping Phlox, Star Rock Phlox) | North Carolina Extension (

Tiarella cordifolia (False Miterwort, Foamflower) | North Carolina Extension Ga

Andropogon gerardii (Big Bluestem, Bluestem, Broomsedge, Turkey Foot) | Noi Andropogon virginicus (Beard Grass, Bluestem, Broomsedge, Broomstraw, Old-Arundinaria gigantea (Canebreak Bamboo, Giant Cane, River Cane) | North Care

<u>Carex flaccosperma (Blue Wood Sedge, Meadow Sedge, Sedges, Thinfruit Sedge</u> <u>Carex platyphylla (Broad Leaf Sedge, Sedges, Silver Sedge) | North Carolina External Sedge</u>

<u>Carex plantaginea (Broad-leafed Sedge, Plantain-leafed Sedge, Sedges, Seersuc Carex stricta (Tussock Sedge) - FSUS (unc.edu)</u>

Carex pensylvanica (Oak Sedge, Pennsylvania Sedge, Plantainleaf Sedge, Rush, :

<u>Carex appalachica (Appalachian Sedge) - FSUS (unc.edu)</u>
<u>Chasmanthium latifolium (Indian Wood Oats, Inland Sea Oats, Northern Sea Oats)</u>
Danthonia compressa (Mountain Oat-grass) - FSUS (unc.edu)

Avenella flexuosa (Deschampsia flexuosa)	Wavy Hair Grass
Elymus hystrix	Bottle Brush
Muhlenbergia capillaris	Muhly Grass
Panicum virgatum	Switch Grass
Erianthus giganteum (Saccharuum giganteum)	Giant Plume Grass
Schizachyrium scoparium	Little Bluestem
Sorghastrum nutans	Indian Grass
Tridens flavus	Purple Top
Tripsacum dactyloides	Eastern Gamma Grass
Ferns	
Adiantum pedatum	Maidenhair Fern
Athyrium filix-femina	Southern Lady Fern
Dryopteris marginalis	Marginal Wood Fern
Onoclea struthiopteris (Matteuccia struthiopteris)	Ostrich Fern
Osmundastrum cinnamomeum (Osmunda cinnamomea)	Cinnamon Fern
Osmunda regalis	Royal Fern
Polystichum acrostichoides	Christmas Fern
Thelypteris noveboracensis	New York Fern

Avenella flexuosa (Common Hairgrass) - FSUS (unc.edu)

Elymus hystrix (Bottle Brush Grass, Bottlebrush Grass) | North Carolina Extension Muhlenbergia capillaris (Gulf Muhly, Hairgrass, Muhly Grass, Mule Grass, Pink I Panicum virgatum (Panic Grass, Panic Grasses, Switch Grass, Tall P

Erianthus giganteus (Giant Plumegrass, Giant Plume Grass, Sugarcane, Sugarca Schizachyrium scoparium (Little Bluestem, Prairie Beardgrass, Prairie Beard Gra Sorghastrum nutans (Indiangrass, Yellow Indiangrass) | North Carolina Extensic https://plants.ces.ncsu.edu/plants/tridens-flavus/

Tripsacum dactyloides (Eastern Gamagrass, Fakahatchee grass, Gama Grass) | |

Adiantum pedatum (Common Maidenhair, Northern Maidenhair, Northern Ma Athyrium filix-femina (Common Lady Fern, Lady Fern) | North Carolina Extensic Dryopteris marginalis (Evergreen Woodfern, Leather Wood Fern, Marginal Shie

Onoclea struthiopteris (Fiddlehead Fern, Ostrich-Feather Fern, Ostrich Fern, Sh

Osmundastrum cinnamomeum (Cinnamon Fern) | North Carolina Extension Garde Osmunda regalis (Flowering Fern, Royal Fern) | North Carolina Extension Garde Polystichum acrostichoides (Christmas Dagger, Christmas Dagger Fern, Christmas Thelypteris noveboracensis (New York Fern) | North Carolina Extension Garder

^{*} Hybrid is resistant to dogwood anthracnose that can infect Comus florida.

^{**} Experimental hybrids with a high percentage American chestnut genes now available.

^{***} Requires treatment to protect from hemlock wooly adelgid.

Notes

Extension Gardener Plant Toolbox (ncsu.edu)

ktension Gardener Plant Toolbox (ncsu.edu)

Ilina Extension Gardener Plant Toolbox (ncsu.edu)

hn's Wort) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

pt, Shrub Yellowroot, Yellowroot, Yellow wort) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

rdener Plant Toolbox (ncsu.edu)

Extension Gardener Plant Toolbox (ncsu.edu)

, French Mulberry, Sour-bush) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ebush, Sweet Betsy, Sweet Bubby Bush, Sweetshrub, Sweet Shrub) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

rolina Extension Gardener Plant Toolbox (ncsu.edu)

ogwood, Swamp Dogwood) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

tension Gardener Plant Toolbox (ncsu.edu)

Note name change to F. latifolia

1 Bark, Smooth Hydrangea, Wild Hydrangea) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Carolina Extension Gardener Plant Toolbox (ncsu.edu)

North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

heepkill, Spoonwood) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Extension Gardener Plant Toolbox (ncsu.edu)

Now Aronia mealanocarpa - see above

Now Aronia arbutifolia - see above

rk, Ninebark, Nine Bark) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ener Plant Toolbox (ncsu.edu)

Note name change to R. minus

ple Rhododendron, Rose Bay) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

on Gardener Plant Toolbox (ncsu.edu)

alea) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Note misspelling on original list

er Plant Toolbox (ncsu.edu)

x (ncsu.edu)

rry, Elderberry) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

rolina Extension Gardener Plant Toolbox (ncsu.edu)

Arrowwood) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

aisin, Wild Raisin) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Extension Gardener Plant Toolbox (ncsu.edu)

mmon Chinquapin, Dwarf Chestnut) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

on Gardener Plant Toolbox (ncsu.edu)

erbush, Mountain Sweet-pepperbush) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

<u>Vitch Hazel, Witch Hazel, Witch-Hazel) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)</u>

Swamp Holly) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ion Gardener Plant Toolbox (ncsu.edu)

Extension Gardener Plant Toolbox (ncsu.edu)

<u>Carolina Extension Gardener Plant Toolbox (ncsu.edu)</u>

tension Gardener Plant Toolbox (ncsu.edu)

ı, White Laurel) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

'lant Toolbox (ncsu.edu)

) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ox (ncsu.edu)

Should we allow southern Highbush? V.

Formosum

orth Carolina Extension Gardener Plant Toolbox (ncsu.edu)

in, Withe-rod, Witherod Viburnum) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

, Plum Leaf Viburnum) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

um, Rusty Nannyberry, Southern Black Haw, Southern Blackhaw Viburnum) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Serviceberry, Service-tree, Shadblow, Shadbush) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

erry, Smooth-leaved serviceberry, Smooth Shadbush) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ner Plant Toolbox (ncsu.edu)

Musclewood, Muscle Wood, Water Beech) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

adbud) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

, Fringe Tree, Grancy Greybeard, Old Man's Beard, Sweetheart Tree, White Fringetree) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

<u>logwood) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)</u> t Toolbox (ncsu.edu)

Should we allow hybrids?

rth Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Plant Toolbox (ncsu.edu)

Note name change to H. carolina

dener Plant Toolbox (ncsu.edu)

lant Toolbox (ncsu.edu)

le, Wild Crab, Wild Crabapple) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

abapple) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

cumbertree Magnolia) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ion Gardener Plant Toolbox (ncsu.edu)

Ibeam, Hop Horn Beam, Ironwood, Leverwood, Wooly Hop hornbeam) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Carolina Extension Gardener Plant Toolbox (ncsu.edu)

arolina Extension Gardener Plant Toolbox (ncsu.edu)

Extension Gardener Plant Toolbox (ncsu.edu)

(ncsu.edu)

s, White Sassafras) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ension Gardener Plant Toolbox (ncsu.edu)

rolina Extension Gardener Plant Toolbox (ncsu.edu)

<u> 1aple) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)</u>

Water Maple, White Maple) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

e) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Extension Gardener Plant Toolbox (ncsu.edu)

1a Extension Gardener Plant Toolbox (ncsu.edu)

Extension Gardener Plant Toolbox (ncsu.edu)

Hickory, Red Hickory, Swamp Hickory, White Hickory) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Hickory, Small Fruited Hickory, Smoothbark Hickory, Swamp Hickory, Sweet Pignut Hickory, Switch Hickory) | North Carolina Extension Gardener Plant To

ctension Gardener Plant Toolbox (ncsu.edu)

Plant Toolbox (ncsu.edu)

t Hickory, White Hickory) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ardener Plant Toolbox (ncsu.edu)

se Elm, Hackberry, Nettle Tree, Northern Hackberry) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Eastern Persimmon, Jove's Fruit, Persimmon, Possum Apples, Possumwood, Simmon, Winter Plum) | North Carolina Extension Gardener Plant Toolbox (no

ech, White Beech) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Jener Plant Toolbox (ncsu.edu)

<u>:er Ash) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)</u>

x (ncsu.edu)

etgum, Sweet Gum, Sweetgum Tree) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

rican Whitewood, Tulip Poplar, Tulip Tree, Western Poplar, Whitewood, Yellow Poplar, Yellow-Poplar) | North Carolina Extension Gardener Plant Toolbox

ree, Fraser Magnolia, Mountain Magnolia) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

tension Gardener Plant Toolbox (ncsu.edu)

tton Gum, Nyssa, Pepperidge, Sour Gum, Tupelo) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Yellow Pine) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

e Pine, Soft Pine, White Pine) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ie) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ee, Buttonwood, Eastern Sycamore, Sycamore) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Extension Gardener Plant Toolbox (ncsu.edu)

, Northern White Oak, Oaks, Quebec Oak, White Oak) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Plant Toolbox (ncsu.edu)

k, Water Oak) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ener Plant Toolbox (ncsu.edu)

<u>Jak) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)</u>

a Extension Gardener Plant Toolbox (ncsu.edu)

ern Red Oak, Oaks, Red Oak) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

olbox (ncsu.edu)

xtension Gardener Plant Toolbox (ncsu.edu)

ıcsu.edu)

arolina Basswood, Lime Tree, Linden, White Basswood, White Wood) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

lock Spruce, Spruce Pine) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Note species epitaph misspelled in

appendix

Should we add U. ameicana hybrids?

Extension Gardener Plant Toolbox (ncsu.edu)

ne, Trumpet Creeper, Trumpet Vine) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Woodbine) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

2, Woodbine) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Iorth Carolina Extension Gardener Plant Toolbox (ncsu.edu)

orth Carolina Extension Gardener Plant Toolbox (ncsu.edu)

<u>Paved Everlasting, Plantain-Leaved Pussytoes, Plantain Pussytoes, Pussytoes</u>
 North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Shoud we remove this and only reference idividual species? Why specify a variety?

'dener Plant Toolbox (ncsu.edu)

Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Gardener Plant Toolbox (ncsu.edu)

<u>irdener Plant Toolbox (ncsu.edu)</u>

Many are non-native.

rth Carolina Extension Gardener Plant Toolbox (ncsu.edu)
-field Broomstraw) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)
olina Extension Gardener Plant Toolbox (ncsu.edu)

e) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu) ension Gardener Plant Toolbox (ncsu.edu)

ker Sedge) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Sedge, Sedges, Seersucker Sedge) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

<u>its</u>, River Oats, Wild Oats, Wood-oat) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

note name change to Avenella flexuosa

on Gardener Plant Toolbox (ncsu.edu)

<u>Hair Grass, Pink Muhly, Pink Muhly Grass, Purple Muhly</u> | North Carolina Extension Gardener Plant Toolbox (ncsu.edu) | anic Grass, Thatchgrass, Wild Redtop) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Note name change to E. giganteum

ass) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu) on Gardener Plant Toolbox (ncsu.edu)

North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

idenhair Fern) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

on Gardener Plant Toolbox (ncsu.edu)

!ld Fern, Marginal Woodfern, Marginal Wood Fern) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

Note name change to O. struthiopteris

Note name change to Osmundastrum cinnamomeum

ener Plant Toolbox (ncsu.edu)

as Fern) | North Carolina Extension Gardener Plant Toolbox (ncsu.edu)

ner Plant Toolbox (ncsu.edu)

Add Sitobolium punctilobulum (hay-scented fern)?

TOWN OF WEAVERVILLE Tree Board AGENDA ITEM

MEETING DATE: January 8, 2025 **SUBJECT:** Tree Inventory RFQ

PRESENTER: Jeff Colavecchia & Town Clerk **ATTACHMENTS:** Tree Inventory/ Survey RFQ

DESCRIPTION/SUMMARY OF REQUEST:

The Town of Town of Weaverville is seeking qualified vendors to conduct a comprehensive inventory of public trees, develop an urban forest management plan, and provide recommendations for tree conservation, risk management, and long-term sustainability. The project will support data-driven decision-making to enhance urban tree health, mitigate risks, and improve ecological services.

Adopt and approve the Request for Quote services for tree inventory, first phase to begin at the Lake Louise portion of the Town Park and rights-of-way.

Request for Quotation (RFQ)

Tree Inventory and Conservation Services for Town of Weaverville

Issue Date: [Insert Date]

Due Date for Quotations: [Insert Date and Time]

1. Purpose

The Town of Town of Weaverville is seeking qualified vendors to conduct a comprehensive inventory of public trees, develop an urban forest management plan, and provide recommendations for tree conservation, risk management, and long-term sustainability.

The project will support data-driven decision-making to enhance urban tree health, mitigate risks, and improve ecological services.

2. Scope of Work

The selected vendor will:

A. Tree Inventory

- Identify and document all trees on public lands, including streets, parks, and public facilities.
- Record key data attributes, including:
- Species and botanical name.
- Diameter at Breast Height (DBH) and height.
- Tree age classification (young, mature, over-mature).
- Condition assessment (health, structural integrity, canopy condition).
- Presence of pests or disease.
- GPS coordinates for GIS mapping.

B. Conservation Assessment

- Evaluate the ecological value of significant trees (landmark or heritage trees with ≥24" DBH).
- Identify areas for potential planting, emphasizing species diversity and climate resilience.
- Utilize tools like iTree Eco for ecosystem service calculations, such as carbon sequestration, air quality improvement, and stormwater management.

C. Risk Assessment and Management

- Conduct ISA Basic Tree Risk Assessments.
- Prioritize high-risk trees needing immediate attention (pruning, removal, or treatment).
 - Recommend invasive species management strategies.

D. Public Engagement and Training

- Offer training sessions for municipal staff or community volunteers in data collection and tree care (optional).
- Present findings in a public forum, including educational outreach materials for residents.

3. Deliverables

1. **Digital Inventory Dataset:**

- GIS-compatible data (shapefiles, geodatabase) and Excel/CSV files.
- Integration with the town's existing mapping systems.

2. Final Report:

- Summary of tree data, including maps and detailed conservation priorities.
 - Risk assessment analysis and maintenance recommendations.
 - Ecosystem services valuation report using tools like iTree Eco.

3. **Public Presentation:**

• Visual presentation for town officials and residents highlighting key findings, risks, and recommendations.

4. Management Plan (optional)

• Urban forest management plan detailing short- and long-term strategies for tree health, diversity, and canopy coverage goals.

4. Vendor Qualifications

Vendors must demonstrate the following:

- ISA Certified Arborist(s) and Tree Risk Assessment Qualification (TRAQ).
- Experience in municipal tree inventories and conservation planning.
- Proficiency in GIS and data analysis tools.
- Knowledge of local ecosystems and urban forestry best practices.

5. Submission Requirements

Vendors must submit the following by [Insert Date and Time]:

- Cover letter with company background and relevant experience.
- Resumes of key personnel involved in the project.
- Project methodology, including conservation strategies and risk assessment techniques.
- Itemized cost proposal, including any optional services (e.g., public outreach or additional analysis).
 - References from at least three municipalities or similar projects.

6. Evaluation Criteria

Submissions will be evaluated based on:

- Experience and expertise in urban forestry and conservation (30%).
- Proposed methodology and innovation (25%).
- Cost and overall value (20%).
- References and past performance (15%).
- Commitment to public engagement and education (10%).

7. Submission Instructions

Submit sealed or electronic proposals to:

Tamara Mercer

Town Clerk

Town of Weaverville

30 S. Main Street, Weaverville, NC 28787 P.O. Box 338 Weaverville, NC 28787 828-

tmercer@weavervillenc.org

8. Questions and Clarifications

Direct any questions to [Contact Name] at [Email Address] by [Insert Question Deadline]. All Responses subject to public records law.

9. Terms and Conditions

- The Town of Town of Weaverville reserves the right to reject any or all submissions.
 - All deliverables will become the property of the Town.
- The selected vendor must adhere to all applicable local, state, and federal regulations and provide proof of liability insurance.

Authorized by:

[Name]-

[Title]-

[Date]-