

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
7	D	*Common Alder, Hazel or Tag Alder	Alnus serrulata	Deciduous	M,P,C	5'	FS	Wet, Moist	20' -4"	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful).
8	A	Downy Serviceberry, June Berry	Amelanchier arborea	Deciduous	M,P,C	10'	FS,P	Moist, Dry	25' x 6"	Seeds, seedlings, container 1 gal.
9	A	Hercules Club, Devil's Walking Stick, angelica Tree, Prickly Ash, Toothache Tree	Aralia spinosa	Deciduous	M,P,C	5'	P,Shade	Moist, Wet	15'x10'	Seeds, seedlings, container 1 gal.
10	B	Red Chokeberry	Aronia arbutifolia	Deciduous	M,P,C	3'	FS,P	Wet, Moist	5'x4'	Seeds, seedlings, container 1 gal. (Cuttings are successful)

D. Ann Gill  
700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359  
gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
11	B	Black Chokeberry	Aronia melanocarpa	Deciduous	M,P,C	5'	FS,P	Wet, Moist	6'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)
12	A	Dwarf Pawpaw	Asimina parviflora (8 species in SE)	Deciduous	P,C	5'	FS,P	Dry, Moist	6' x4'	Seeds, seedlings, container 1 gal.
13	A	*Silverling, Eastern Baccharis	Baccharis halimifolia	Both	P,C	6'	FS	Moist ,Dry	16'x12'	Seeds, seedlings, container 1 gal. (Cuttings are successful)

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
14	A	American Beautyberry, French mulberry, Beautybush	Callicarpa americana	Deciduous	P,C	3'	FS, P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 gal.
15	A	Sweet-Shrub	Calycanthus floridus	Deciduous	M,P	6'	FS,P	Dry, Moist	8'x6'	Seeds, seedlings, container 1 gal.
16	A	*Allegheny Chinkapin	Castanea pumila	Deciduous	M,P,C	10'	FS,P	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
17	A	New Jersey Tea	Ceanothus americanus 4 species in SE	Deciduous	M,P,C	5'	FS	Moist, Dry	4'x3'	Seeds, seedlings, container 1 to 3 gal.
18	D	*Buttonbush	Cephalanthus occidentalis	Deciduous	M,P,C	4'	FS,P	Wet, Moist	20'x12'	Seeds, seedlings, container 1 gal.
19	B	*Sweet Pepperbush, White Alder, Mountain Pepperbush, Cinnamon Clethra	Clethra acuminata	Deciduous	M,P	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

Mecklenburg County  
Solid Waste Mgt.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
20	B	*Sweet Pepperbush, White Alder, Summersweet	Clethra alnifolia	Deciduous	P,C	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.
21	A	Sweet Fern	Comptonia peregrina	Both	M,P	10'	FS	Moist, Dry	6'x6'	Seeds, seedlings, container 1 to 3 gal.
22	A	Wax Myrtle	Comptonia cerifera	Evergreen	P,C	10'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 3 gal.
23	B	Silky Dogwood, Bush Dogwood	Cornus amomum	Deciduous	M,P,C	10'	FS,P	Wet, Moist	10'x 8'	Seeds, seedlings, container 1 to 3 gal.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
24	C	Swamp Dogwood	Cornus stricta	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 3 gal.
25	A	*American Hazel, Hazelnut	Corylus americana	Deciduous	M,P,C	10'	FS	Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.
26	A	*Beaked Hazelnut	Corylus cornuta	Deciduous	M,P	10'	FS	Dry, Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
27	A	*Summer Haw, Yellow Hawthorn	Crateagus flava (56 species in SE)	Deciduous	P,C	20'	FS	Dry, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.
28	A	*Littlehip Hawthorn, red Haw, Sugar Haw	Crateagus spathulata (56 species in SE)	Deciduous	M,P,C	20'	FS	Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.
29	A	*Dwarf Hawthorn, One Flowered Hawthorn	Crateagus uniflora (56 species in SE)	Deciduous	P,C	20'	FS	Dry	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

Mecklenburg County  
Solid Waste Mgt.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
30	A	*Parsley Hawthorn	Crateagus marshallii (56 species in SE)	Deciduous	M,P,C	20'	FS	Wet, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.
31	C	*White Titi, Black titi, Leatherwood, Swamp Cyrilla, He-huckberry	Cyrilla racemiflora	Both	C	20'	FS	Wet, Moist	T, S-1-3	Seeds, seedlings, containers 3 to 15 gal.
32	A	Bush Honeysuckle	Diervilla sessilifolia	Deciduous	M	5'	FS	Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
33	B	Hearts A'Bustin, Strawberry Bush, Burning Bush, Bursting-heart	Euonymus americanus	Both	M,P,C	5'	FS,P	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 3 gal.
34	A	*Carolina Buckthorn, Indian Cherry, Pole-Cat-Tree	Frangula caroliniana	Deciduous	P,C	5'	FS,P	Dry, Moist	8'x4'	Seeds, seedlings, container 1 to 3 gal.
35	A	*Wintergreen	Gaultheria procumbens	Evergreen	M,P,C	5'	P,Shade	Dry, Moist	5x5	Seeds, seedlings, container 1 to 3 gal.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
36	A	Black Huckleberry	Gaylussacia baccata (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.
37	A	Dwarf Huckleberry, Gopherberry	Gaylussacia dumosa(6 species in SE)	Both	M,P,C	2'	FS	Moist, Dry	2'x2'	Seeds, seedlings, container 1 to 3 gal.
38	A	Blue Huckleberry, Dandleberry	Gaylussacia frondosa (6 species in SE)	Deciduous	P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
39	A	Huckleberry, Buckberry	Gaylussacia ursina (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.
40	A	*Witch Hazel	Hamamelis virginiana	Deciduous	M,P,C	10'	FS,P	Moist	20'x15'	Seeds, seedlings, container 1 to 3 gal.
41	D	Swamp Mallow, Wild Cotton	Hibiscus moscheutos	Deciduous	P,C	8'	FS	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 5 gal.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
42	B	Wild Hydrangea, Climbing Hydrangea, Sevenbark, Mountain Hydrangea	Hydrangea arborescens	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.
43	B	Oak-leaf Hydrangea	Hydrangea quercifolia	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.
44	A	Sweet Gallberry, Gay-ball Bush, Shining Inkberry	Ilex coriacea (13 species in SE)	Evergreen	P,C	5'	FS,P	Wet, Moist, Dry	18'x15'	Seeds, seedlings, container 1 to 3 gal.

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

Mecklenburg County  
Solid Waste Mgt.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
45	A	*Possumhaw	Ilex decidua (13 species in SE)	Deciduous	P,C	8'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.
46	A	Inkberry, Bitter Gallberry, Evergreen Winterberry	Ilex glabra (13 species in SE)	Evergreen	C	10'	P, Shade	Dry, Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.
47	A	*American Holly	Ilex opaca (13 species in SE)	Evergreen	P,C	20'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
48	A	Winterberry	Ilex verticillata (13 species in SE)	Deciduous	M,P,C	8'	FS,P	Wet, Moist	10'x6'	Seeds, seedlings, container 1 to 5 gal.
49	A	Yaupon Holly	Ilex vomitoria (13 species in SE)	Evergreen	P,C	8'	FS	Moist, Dry	15'x10'	Seedlings, container 3 to 15 gal.
50	D	Virginia Willow, Sweetspire, Tassel-white, Washington Plume	Itea virginica	Deciduous	P,C	8'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
51	A	Mountain Laurel, Mountain Ivy, Calico Bush, Spoonwort	Kalmia latifolia	Evergreen	M,P	5'	FS,P, Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.
52	A	Sheep Laurel, Lamb Kill, Wicky	Kalmia augustifolia var. caroliniana	Evergreen	P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.
53	C	Coastal Dog-Hobble	Leucothoe axillaris	Evergreen	C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.
54	C	Dog-Hobble	Leucothoe editorum	Evergreen	M,P	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
55	C	Fetterbush, Sweetbells	Leucothoe racemosa	Evergreen	P,C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.
56	B	Spicebush	Lindera benzoin	Deciduous	M,P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.
57	B	Male-Berry, Male-Blueberry	Lyonia ligustrina (5 species in SE)	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.
58	C	Fetterbush	Lyonia lucida (5 species in SE)	Deciduous	P,C	5'	FS,P	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.
59	A	*Southern Wax Myrtle, Bayberry, Candleberry	Myrica cerifera 5 species in SE	Evergreen	P,C	10'	FS,P	Dry, Moist	25'x20'	Container, 1 to 3 gal.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
60	A	Ninebark	Physocarpus opulifolius	Deciduous	M,P,C	10'	FS,P	Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.
61	A	Pasture Rose, Carolina Rose	Rosa carolina	Deciduous	M,P,C	5'	FS	Moist, Dry	3'x3'	Seeds, seedlings, container 1 to 5 gal.
62	A	Dwarf Azalea	Rhododendron atlanticum	Deciduous	P,C	6'	FS	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.
63	B	Flame Azalea	Rhododendron calendulaceum	Deciduous	M,P	8'	FS,P	Moist, Dry	12'x8'	Seeds, seedlings, container 1 to 5 gal.
64	A	Catawba Rhododendron	Rhododendron catawbiense	Deciduous	M,P	10'	FS	Moist, Dry	15'x10'	Seeds, seedlings, container 1 to 5 gal.
65	B	*Rosebay Rhododendron, Great Laurel	Rhododendron maximum	Deciduous	M,P	10'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
66	A	Pinxterbloom Azalea	Rhododendron nudiflorum var. canescens	Deciduous	M,P	6'	P, Shade	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.
67	C	Swamp Azalea	Rhododendron viscosum (R. serrulata)	Deciduous	M,P,C	6'	P, Shade	Wet, Moist	6'x3'	Seeds, seedlings, container 1 to 5 gal.
68	A	Fragrant Sumac	Rhus aromatica	Deciduous	P,C	5'	FS	Dry	1' -	Seeds, seedlings, containers
69	A	*Shining Sumac, Winged Sumac, Dwarf Sumac	Rhus copallina	Deciduous	M,P,C	5'	FS	Moist, Dry	25' -6"	Seeds, seedlings, containers

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
70	A	*Smooth Sumac, Scarlet Sumac, Common Sumac	Rhus glabra	Deciduous	M,P,C	5'	FS	Moist, Dry	20' -4"	Seeds, seedlings, containers
71	A	*Staghorn Sumac, Velvet Sumac	Rhus hirta (Rhus typhina)	Deciduous	M,P	5'	FS	Moist, Dry	30' -8"	Seeds, seedlings, containers
72	A	Pasture Rose, Wild Rose	Rosa carolina	Deciduous	M,P,C	5'	FS,P	Dry, Moist	5'x5'	Seeds, seedlings, container 1 to 5 gal.
73	C	Swamp Rose	Rosa palustris	Deciduous	M,P,C	10'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.
74	A	Alleghany Blackberry	Rubus s. Eubatus allegheniensis	Deciduous	M,P	5'	FS	Moist, Dry	10'x10'	Seeds, seedlings, container 1 to 5 gal.

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

Mecklenburg County  
Solid Waste Mgt.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
75	A	Purple Flowering Raspberry	Rubus odoratus	Deciduous	M	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 5 gal.
76	B	Prairie Willow	Salix humilis	Deciduous	M,P	6'	FS	Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.
77	B	Silky Willow	Salix sericea	Deciduous	M,P	15'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.
78	D	Common Elderberry, American Elder, Elderberry, Common Elder	Sambucus canadensis	Deciduous	M,P,C	10'	FS	Wet, Moist	12'x10' -6"	Seeds, seedlings, container 1 gal. (Cuttings are successful)
79	D	Meadowsweet & Narrow Leaved Meadowsweet	Spiraea tomentosa & Spiraea alba	Deciduous	M,P,C	10'	FS,P	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
80	C	Virginia Stewartia, Silky Camelia	Stewartia malacodendron	Deciduous	P,C	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.
81	C	Mountain Stewartia	Stewartia ovata	Deciduous	M,P	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.
82	A	American Snowbell	Styrax americana	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.
83	A	Bigleaf Snowbell	Styrax grandifolia	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.
84	A	Sparkleberry	Vaccinium arboreum	Evergreen	P,C	8'	FS,P	Moist, Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.
85	A	Black Highbush Blueberry	Vaccinium atrococcum	Evergreen	P,C	8'	FS,P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 to 5 gal.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
86	B	Highbush Blueberry	Vaccinium corymbosum (V.virgata, formosa)	Evergreen	M,P,C	8'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 to 5 gal.
87	A	Creeping Blueberry	Vaccinium crassifolium	Evergreen	P,C	5'	FS	Moist, Dry	2'x1'	Seeds, seedlings, container 1 to 5 gal.
88	C	Elliott Blueberry, Mayberry	Vaccinium elliotii	Evergreen	M,P,C	8'	P,Shady	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.
89	A	Huckleberry, Southern Gooseberry	Vaccinium stamineum	Evergreen	M,P,C	8'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 5 gal.

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
90	A	Lowbush Blueberry	Vaccinium tenellum	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.
91	A	Lowbush Blueberry	Vaccinium vacillans	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.
92	B	Maple Leaf Viburnum	Viburnum acerifolium	Deciduous	M,P	6'	FS	Moist	8'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)
93	B	Southern Arrowwood Viburnum	Viburnum dentatum	Deciduous	M,P,C	6'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)
94	B	Possumhaw Viburnum	Viburnum nudum	Deciduous	M,P,C	6'	FS	Wet, Moist	16x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
95	B	Nannyberry	Viburnum lentago	Deciduous	M,P,C	6'	FS	Wet, Moist	20'x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)
96	B	Blackhaw Viburnum	Viburnum prunifolium	Deciduous	M,P,C	6'	FS	Moist	25'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)
97	B	Downy Arrowwood	Viburnum rafinesquianum	Deciduous	P	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)
98	B	Rusty Blackhaw	Viburnum rufidulum	Deciduous	P,C	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)
99	D	Yellowroot	Xanthorhiza simplicissima	Deciduous	M,P,C	4'	P,Shade	Wet, Moist	3'x3'	Seeds, seedlings, container 1 gal. (Cuttings are successful)

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,	
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width	
4	C - LOWER SLOPE									
5	D - WATER'S EDGE									
6										
100	References:									
101	Burns, Russell M., and Barbara H. Honkala, tech. coords. 1990. Silvics of North America: 1. Conifers; 2. Hardwoods. Agriculture Handbook 654. B.S. Department of Agriculture (Supersedes Agriculture Handbook 271, Silvics of Forest Trees of the United States, 1965)									
102	Cherri Smith, Resource Management Specialist. 1998. Planting Guidelines: Choosing the Appropriate Trees, Shrubs, Herbs, and Seeds to Plant in our Parks. Division of Parks and Recreation, P.O. Box 27687, Raleigh, NC 27699-1615									
103	Radford, Albert E., Ahles, Harry E. and C. Richie Bell. 1968. Manual of the Vascular Flora of the Carolinas. The University of North Carolina Press, Chapel Hill									
104	James H. Miller, Karl V. Miller. 1999. Forest Plants of the Southeast and Their Wildlife Uses. Southern Weed Science Society. Craftmaster Printers, Inc., Auburn, AL									
105	Chris Moreman, NC State University. Barnes, Thomas. 1999. Gardening for the birds. The University Press of Kentucky. Lexington,									
106										

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
7	D	*Common Alder, Hazel or Tag Alder	Alnus serrulata	Deciduous	M,P,C	5'	FS	Wet, Moist	20' -4"	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful).	Forms thickets, bottomlands, floodplains
8	A	Downy Serviceberry, June Berry	Amelanchier arborea	Deciduous	M,P,C	10'	FS,P	Moist, Dry	25' x 6"	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, borders stream. Can be found in wet areas. flowers, fruit in late summer. Birds like.
9	A	Hercules Club, Devil's Walking Stick, angelica Tree, Prickly Ash, Toothache Tree	Aralia spinosa	Deciduous	M,P,C	5'	P,Shade	Moist, Wet	15'x10'	Seeds, seedlings, container 1 gal.	Perennial; Ornamental; burgundy, prefers wet areas, thickets, stream banks. Flowers-cream to black. Bird, mammal food.
10	B	Red Chokeberry	Aronia arbutifolia	Deciduous	M,P,C	3'	FS,P	Wet, Moist	5'x4'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, fast growing, borders stream. Tolerant of marginal soils. D. flowers, Sept-F. Fruits eaten by birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
11	B	Black Chokeberry	Aronia melanocarpa	Deciduous	M,P,C	5'	FS,P	Wet, Moist	6'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, fast growing, borders stream. Tolerant of many soils. Flowers, Sept-October. Fruits eaten by birds.
12	A	Dwarf Pawpaw	Asimina parviflora (8 species in SE)	Deciduous	P,C	5'	FS,P	Dry, Moist	6' x4'	Seeds, seedlings, container 1 gal.	Occurs on moist, shaded habitat, from coast to mountains. Apr.-May-Flowers. Sept.-Fruits/seed pods eaten by butterflies.
13	A	*Silverling, Eastern Baccharis	Baccharis halimifolia	Both	P,C	6'	FS	Moist ,Dry	16'x12'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, spreading, and female plants. Borders stream, shore hammocks. Flowers white/silvery. O

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
14	A	American Beautyberry, French mulberry, Beautybush	Callicarpa americana	Deciduous	P,C	3'	FS, P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, borders stream margins, right-of-way. Flowers-pinkish purple or white. Attracts mammals.
15	A	Sweet-Shrub	Calycanthus floridus	Deciduous	M,P	6'	FS,P	Dry, Moist	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental and forms colonies, common in wet sites, bottomland. Borders stream. June-Flowers-red. Apr.Seeds. Eat.
16	A	*Allegheny Chinkapin	Castanea pumila	Deciduous	M,P,C	10'	FS,P	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, borders stream.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
17	A	New Jersey Tea	Ceanothus americanus 4 species in SE	Deciduous	M,P,C	5'	FS	Moist, Dry	4'x3'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, not growing, prefer margins, well drained roadsides & slopes. White. June-September. Eaten by mammals. & birds.
18	D	*Buttonbush	Cephalanthus occidentalis	Deciduous	M,P,C	4'	FS,P	Wet, Moist	20'x12'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, bordering stream of white flowers. Fruit/seeds-butts. Eaten by ducks, songbirds. Leaves poisonous.
19	B	*Sweet Pepperbush, White Alder, Mountain Pepperbush, Cinnamon Clethra	Clethra acuminata	Deciduous	M,P	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border hardwood forest. Increased by drought. White/fragrant. spring. Eaten by insects.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
20	B	*Sweet Pepperbush, White Alder, Summersweet	Clethra alnifolia	Deciduous	P,C	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border savannahs, flat bogs. Intolerant of drainage and fire. Sept.-Feb.-Fruit for mammals, bees
21	A	Sweet Fern	Comptonia peregrina	Both	M,P	10'	FS	Moist, Dry	6'x6'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned
22	A	Wax Myrtle	Comptonia cerifera	Evergreen	P,C	10'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned. High value winter
23	B	Silky Dogwood, Bush Dogwood	Cornus amomum	Deciduous	M,P,C	10'	FS,P	Wet, Moist	10'x 8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for streams, swamps

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
24	C	Swamp Dogwood	Cornus stricta	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, prefers streams, swamps
25	A	*American Hazel, Hazelnut	Corylus americana	Deciduous	M,P,C	10'	FS	Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans
26	A	*Beaked Hazelnut	Corylus cornuta	Deciduous	M,P	10'	FS	Dry, Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
27	A	*Summer Haw, Yellow Hawthorn	Crateagus flava (56 species in SE)	Deciduous	P,C	20'	FS	Dry, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for thorns, strong root sites, streambanks, right-of-ways, etc. Oct.-Red Pomegranate songbirds.
28	A	*Littlehip Hawthorn, red Haw, Sugar Haw	Crateagus spathulata (56 species in SE)	Deciduous	M,P,C	20'	FS	Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental-cro colonies/thicket system, prefers bottomlands, m Oct.-Dec.-Red birds, & songbirds
29	A	*Dwarf Hawthorn, One Flowered Hawthorn	Crateagus uniflora (56 species in SE)	Deciduous	P,C	20'	FS	Dry	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for thorns, strong root forests & margins May-Flowers-w mammals, garr

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habits
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
30	A	*Parsley Hawthorn	Crateagus marshallii (56 species in SE)	Deciduous	M,P,C	20'	FS	Wet, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for thorns, strong root sites, streambanks Apr.-May-Flowers Eaten by mammals
31	C	*White Titi, Black titi, Leatherwood, Swamp Cyrilla, He-huckberry	Cyrilla racemiflora	Both	C	20'	FS	Wet, Moist	T, S-1-3	Seeds, seedlings, containers 3 to 15 gal.	Fast growing, for sites, stream margins flatwoods depressed stands. Deep red fragrant, Sept.-butterfly nectar
32	A	Bush Honeysuckle	Diervilla sessilifolia	Deciduous	M	5'	FS	Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, p

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
33	B	Hearts A'Bustin, Strawberry Bush, Burning Bush, Bursting-heart	Euonymus americanus	Both	M,P,C	5'	FS,P	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, including bottomland & mixed forests. Green. Sept.-Dec. deer, mammals eat in shade but most
34	A	*Carolina Buckthorn, Indian Cherry, Pole-Cat-Tree	Frangula caroliniana	Deciduous	P,C	5'	FS,P	Dry, Moist	8'x4'	Seeds, seedlings, container 1 to 3 gal.	Occurs on moist habitat, new for open hardwood. Flowers-green. Berry/seeds. E
35	A	*Wintergreen	Gaultheria procumbens	Evergreen	M,P,C	5'	P,Shade	Dry, Moist	5x5	Seeds, seedlings, container 1 to 3 gal.	Fast growing, p

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
36	A	Black Huckleberry	Gaylussacia baccata (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover to moist soils in woodlands. May be eaten by butterflies.
37	A	Dwarf Huckleberry, Gopherberry	Gaylussacia dumosa(6 species in SE)	Both	M,P,C	2'	FS	Moist, Dry	2'x2'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover sandy soils of pine elevation pine forest. Flowers-white. eaten by mammals, reptiles.
38	A	Blue Huckleberry, Dandleberry	Gaylussacia frondosa (6 species in SE)	Deciduous	P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover and well-drained bays, shrub bays. Flowers-white. eaten by mammals, reptiles.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
39	A	Huckleberry, Buckberry	Gaylussacia ursina (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover to moist soils in woodlands. May Berry eaten by butterflies.
40	A	*Witch Hazel	Hamamelis virginiana	Deciduous	M,P,C	10'	FS,P	Moist	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, caespitose sites, open to sunlight plant in mixed forest margins & borders yellow. Oct.-Nov. & pollinated by
41	D	Swamp Mallow, Wild Cotton	Hibiscus moscheutos	Deciduous	P,C	8'	FS	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streams, marsh June-Oct.-Flows Aug-Nov. Bird

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
42	B	Wild Hydrangea, Climbing Hydrangea, Sevenbark, Mountain Hydrangea	Hydrangea arborescens	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found mostly in rocky streams or mixed a vine. May-Jul Eaten by mammals & butterflies.
43	B	Oak-leaf Hydrangea	Hydrangea quercifolia	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in shady habitats, forests, borders July-Flowers-white mammals, garden butterflies
44	A	Sweet Gallberry, Gay-ball Bush, Shining Inkberry	Ilex coriacea (13 species in SE)	Evergreen	P,C	5'	FS,P	Wet, Moist, Dry	18'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in understory shrubs soils bordering woods, & swamps Feb.-Fruit-black mammals & insects

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
45	A	*Possumhaw	Ilex decidua (13 species in SE)	Deciduous	P,C	8'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrub soils bordering forests, low woodlands. Flowers-white. Eaten by songbirds, garr.
46	A	Inkberry, Bitter Gallberry, Evergreen Winterberry	Ilex glabra (13 species in SE)	Evergreen	C	10'	P, Shade	Dry, Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrub prefers acidic soils woodlands, poor soils. June-July. Flowers-white. Eaten by songbirds, g.
47	A	*American Holly	Ilex opaca (13 species in SE)	Evergreen	P,C	20'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for mixed upland & lowland soils. May-June. Fruit. Eaten by songbirds, g.

D. Insects/bees.

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
48	A	Winterberry	Ilex verticillata (13 species in SE)	Deciduous	M,P,C	8'	FS,P	Wet, Moist	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrubs, soils bordering June-Flowers-v songbirds, garr
49	A	Yaupon Holly	Ilex vomitoria (13 species in SE)	Evergreen	P,C	8'	FS	Moist, Dry	15'x10'	Seedlings, container 3 to 15 gal.	Ornamental, for understory shrubs, prefers acidic soils, open for May-June-Flow Eaten by songbirds, insects/bees.
50	D	Virginia Willow, Sweetspire, Tassel-white, Washington Plume	Itea virginica	Deciduous	P,C	8'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for edge of stream, low woodlands, white. July-Feb butterflies & ins

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
51	A	Mountain Laurel, Mountain Ivy, Calico Bush, Spoonwort	Kalmia latifolia	Evergreen	M,P	5'	FS,P, Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sep white/pink. Sep & birds.
52	A	Sheep Laurel, Lamb Kill, Wicky	Kalmia augustifolia var. caroliniana	Evergreen	P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sep white/pink. Sep & birds.
53	C	Coastal Dog-Hobble	Leucothoe axillaris	Evergreen	C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed with other shrubs.
54	C	Dog-Hobble	Leucothoe editorum	Evergreen	M,P	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed with other shrubs.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
55	C	Fetterbush, Sweetbells	Leucothoe racemosa	Evergreen	P,C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, for wet to moist soil woodlands, bog
56	B	Spicebush	Lindera benzoin	Deciduous	M,P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream aromatic. Eaten by insects.
57	B	Male-Berry, Male-Blueberry	Lyonia ligustrina (5 species in SE)	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
58	C	Fetterbush	Lyonia lucida (5 species in SE)	Deciduous	P,C	5'	FS,P	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
59	A	*Southern Wax Myrtle, Bayberry, Candleberry	Myrica cerifera 5 species in SE	Evergreen	P,C	10'	FS,P	Dry, Moist	25'x20'	Container, 1 to 3 gal.	Non-legume native hedge, spreads roadsides, ditch used to repel insects gamebirds, songbirds

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
60	A	Ninebark	Physocarpus opulifolius	Deciduous	M,P,C	10'	FS,P	Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Occurs along & moist cliffs. A Seeds. Eaten by
61	A	Pasture Rose, Carolina Rose	Rosa carolina	Deciduous	M,P,C	5'	FS	Moist, Dry	3'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p open woodland
62	A	Dwarf Azalea	Rhododendron atlanticum	Deciduous	P,C	6'	FS	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods and sav Bird and butter
63	B	Flame Azalea	Rhododendron calendulaceum	Deciduous	M,P	8'	FS,P	Moist, Dry	12'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streams, low w and butterfly fo
64	A	Catawba Rhododendron	Rhododendron catawbiense	Deciduous	M,P	10'	FS	Moist, Dry	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p slopes, ridges & Hummingbird a
65	B	*Rosebay Rhododendron, Great Laurel	Rhododendron maximum	Deciduous	M,P	10'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p and hardwoods

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
66	A	Pinxterbloom Azalea	Rhododendron nudiflorum var. canescens	Deciduous	M,P	6'	P, Shade	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods and thic Bird and butter
67	C	Swamp Azalea	Rhododendron viscosum (R. serrulata)	Deciduous	M,P,C	6'	P, Shade	Wet, Moist	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p swamps. Bird a
68	A	Fragrant Sumac	Rhus aromatica	Deciduous	P,C	5'	FS	Dry	1' -	Seeds, seedlings, containers	Groundcover, f right of ways & Feb.-May-flowe seeds. Seeds e birds.
69	A	*Shining Sumac, Winged Sumac, Dwarf Sumac	Rhus copallina	Deciduous	M,P,C	5'	FS	Moist, Dry	25' -6"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
70	A	*Smooth Sumac, Scarlet Sumac, Common Sumac	Rhus glabra	Deciduous	M,P,C	5'	FS	Moist, Dry	20' -4"	Seeds, seedlings, containers	Fast growing, everywhere & forest n flowers-greenis eaten by mammals
71	A	*Staghorn Sumac, Velvet Sumac	Rhus hirta (Rhus typhina)	Deciduous	M,P	5'	FS	Moist, Dry	30' -8"	Seeds, seedlings, containers	Fast growing, everywhere & forest n flowers-greenis eaten by mammals
72	A	Pasture Rose, Wild Rose	Rosa carolina	Deciduous	M,P,C	5'	FS,P	Dry, Moist	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, everywhere woodland border mammals & mammals
73	C	Swamp Rose	Rosa palustris	Deciduous	M,P,C	10'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, ponds & swamps birds
74	A	Alleghany Blackberry	Rubus s. Eubatus allegheniensis	Deciduous	M,P	5'	FS	Moist, Dry	10'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, ponds woodlands border birds food.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
75	A	Purple Flowering Raspberry	Rubus odoratus	Deciduous	M	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers slopes, streambanks, thorns. Butterflies
76	B	Prairie Willow	Salix humilis	Deciduous	M,P	6'	FS	Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, marsh
77	B	Silky Willow	Salix sericea	Deciduous	M,P	15'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, woodlands
78	D	Common Elderberry, American Elder, Elderberry, Common Elder	Sambucus canadensis	Deciduous	M,P,C	10'	FS	Wet, Moist	12'x10' -6"	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, finds sites, in open habitats, flowers, Aug-Oct, edible to humans and species birds.
79	D	Meadowsweet & Narrow Leaved Meadowsweet	Spiraea tomentosa & Spiraea alba	Deciduous	M,P,C	10'	FS,P	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streambanks, low

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
80	C	Virginia Stewartia, Silky Camelia	Stewartia malacodendron	Deciduous	P,C	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streambanks, likes
81	C	Mountain Stewartia	Stewartia ovata	Deciduous	M,P	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streambanks, likes
82	A	American Snowbell	Styrax americana	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers woods, mixed forest
83	A	Bigleaf Snowbell	Styrax grandifolia	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers woods, mixed forest
84	A	Sparkleberry	Vaccinium arboreum	Evergreen	P,C	8'	FS,P	Moist, Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers upland, forest understory eaten by mammals and many birds.
85	A	Black Highbush Blueberry	Vaccinium atrococcum	Evergreen	P,C	8'	FS,P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers forest understory. Fruit eaten by humans.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
86	B	Highbush Blueberry	Vaccinium corymbosum (V.virgata, formosa)	Evergreen	M,P,C	8'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, pocosins, pine and clearings. I by mammals, reptiles and birds
87	A	Creeping Blueberry	Vaccinium crassifolium	Evergreen	P,C	5'	FS	Moist, Dry	2'x1'	Seeds, seedlings, container 1 to 5 gal.	Groundcover; forms dense mats in wet soils, pocosins, understory, and stream banks. Eaten by reptiles, insects and birds. Edible to humans.
88	C	Elliott Blueberry, Mayberry	Vaccinium elliotii	Evergreen	M,P,C	8'	P,Shady	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, streams and swamps. Eaten by mammals, reptiles and birds.
89	A	Huckleberry, Southern Gooseberry	Vaccinium stamineum	Evergreen	M,P,C	8'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, forest understory. Eaten by mammals, reptiles and birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
90	A	Lowbush Blueberry	Vaccinium tenellum	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
91	A	Lowbush Blueberry	Vaccinium vacillans	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
92	B	Maple Leaf Viburnum	Viburnum acerifolium	Deciduous	M,P	6'	FS	Moist	8'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, found in valleys, slopes. Prolific berries
93	B	Southern Arrowwood Viburnum	Viburnum dentatum	Deciduous	M,P,C	6'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, found in swamps, forms many species of birds
94	B	Possumhaw Viburnum	Viburnum nudum	Deciduous	M,P,C	6'	FS	Wet, Moist	16x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, forms thickets. Many species of birds

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
95	B	Nannyberry	Viburnum lentago	Deciduous	M,P,C	6'	FS	Wet, Moist	20'x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no flowers, Late summer, edible to humans, many species of birds
96	B	Blackhaw Viburnum	Viburnum prunifolium	Deciduous	M,P,C	6'	FS	Moist	25'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no slopes, in thickets, white flowers, fruit to humans.
97	B	Downy Arrowwood	Viburnum rafinesquianum	Deciduous	P	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no and edges of forest, many species of birds
98	B	Rusty Blackhaw	Viburnum rufidulum	Deciduous	P,C	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no of forest, forming many species of
99	D	Yellowroot	Xanthorhiza simplicissima	Deciduous	M,P,C	4'	P,Shade	Wet, Moist	3'x3'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, w streambanks.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
100	References:										
101	Burns, Russell M., and Barbara H. Honkala, tech. coords. 1990. Silvics of North America: 1. Conifers; 2. Hardwoods. Agriculture Handbook 654. B.S. Department of Agriculture (Supersedes Agriculture Handbook 271, Silvics of Forest Trees of the United States, 1965)										
102	Cherri Smith, Resource Management Specialist. 1998. Planting Guidelines: Choosing the Appropriate Trees, Shrubs, Herbs, and Seeds to Plant in our Parks. Department of Environment and Natural Resources, Division of Parks and Recreation, P.O. Box 27687, Raleigh, NC 27699-1615										
103	Radford, Albert E., Ahles, Harry E. and C. Richie Bell. 1968. Manual of the Vascular Flora of the Carolinas. The University of North Carolina Press, Chapel Hill, NC										
104	James H. Miller, Karl V. Miller. 1999. Forest Plants of the Southeast and Their Wildlife Uses. Southern Weed Science Society. Craftmaster Printers, Inc., Auburn, AL.										
105	Chris Moreman, NC State University. Barnes, Thomas. 1999. Gardening for the birds. The University Press of Kentucky. Lexington,										
106											

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
7	D	*Common Alder, Hazel or Tag Alder	Alnus serrulata	Deciduous	M,P,C	5'	FS	Wet, Moist	20' -4"	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful).	Forms thickets, bottomlands, floodplains
8	A	Downy Serviceberry, June Berry	Amelanchier arborea	Deciduous	M,P,C	10'	FS,P	Moist, Dry	25' x 6"	Seeds, seedlings, container 1 gal.	Ornamental, favorite for birds, borders stream. Can be found in wet areas. Flowers, fruit in late summer.
9	A	Hercules Club, Devil's Walking Stick, angelica Tree, Prickly Ash, Toothache Tree	Aralia spinosa	Deciduous	M,P,C	5'	P,Shade	Moist, Wet	15'x10'	Seeds, seedlings, container 1 gal.	Perennial; Ornamental; burgundy, prefers wet areas, thickets, stream banks. Flowers-cream to black. Bird, mammal food.
10	B	Red Chokeberry	Aronia arbutifolia	Deciduous	M,P,C	3'	FS,P	Wet, Moist	5'x4'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, favorite for birds, borders stream. Tolerant of marginal soils. Flowers, Sept-October. Fruit eaten by birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
11	B	Black Chokeberry	Aronia melanocarpa	Deciduous	M,P,C	5'	FS,P	Wet, Moist	6'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, fast growing, borders stream. Tolerant of many soils. Flowers, Sept-October. Fruits eaten by birds.
12	A	Dwarf Pawpaw	Asimina parviflora (8 species in SE)	Deciduous	P,C	5'	FS,P	Dry, Moist	6' x4'	Seeds, seedlings, container 1 gal.	Occurs on moist soil. Habitat, from coastal plain to mountains. Apr.-May-Flowers. Sept.-Fruits/seed pods eaten by butterflies.
13	A	*Silverling, Eastern Baccharis	Baccharis halimifolia	Both	P,C	6'	FS	Moist ,Dry	16'x12'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, spreading. Male and female plants. Borders stream. Grows in shore hammocks. White/silvery. O

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
14	A	American Beautyberry, French mulberry, Beautybush	Callicarpa americana	Deciduous	P,C	3'	FS, P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, borders stream margins, right-of-way. Flowers-pinkish-purple or white. Attracts mammals.
15	A	Sweet-Shrub	Calycanthus floridus	Deciduous	M,P	6'	FS,P	Dry, Moist	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental and forms colonies, common in wet sites, bottomland. Borders stream. June-Flowers-red. Apr.Seeds. Eat.
16	A	*Allegheny Chinkapin	Castanea pumila	Deciduous	M,P,C	10'	FS,P	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, borders stream.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
17	A	New Jersey Tea	Ceanothus americanus 4 species in SE	Deciduous	M,P,C	5'	FS	Moist, Dry	4'x3'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, not growing, prefer margins, well drained roadsides & slopes. White. June-September. Eaten by mammals. & birds.
18	D	*Buttonbush	Cephalanthus occidentalis	Deciduous	M,P,C	4'	FS,P	Wet, Moist	20'x12'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, bordering stream of white flowers. Fruit/seeds-butternut ducks, songbirds. Leaves poisonous.
19	B	*Sweet Pepperbush, White Alder, Mountain Pepperbush, Cinnamon Clethra	Clethra acuminata	Deciduous	M,P	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border hardwood forest. Increased by drought. White/fragrant. spring. Eaten by insects.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
20	B	*Sweet Pepperbush, White Alder, Summersweet	Clethra alnifolia	Deciduous	P,C	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border savannahs, flat bogs. Intolerant of drainage and fire. Sept.-Feb.-Fruit for mammals, bees
21	A	Sweet Fern	Comptonia peregrina	Both	M,P	10'	FS	Moist, Dry	6'x6'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned
22	A	Wax Myrtle	Comptonia cerifera	Evergreen	P,C	10'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned. High value winter
23	B	Silky Dogwood, Bush Dogwood	Cornus amomum	Deciduous	M,P,C	10'	FS,P	Wet, Moist	10'x 8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for streams, swamps

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
24	C	Swamp Dogwood	Cornus stricta	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, prefers streams, swamps
25	A	*American Hazel, Hazelnut	Corylus americana	Deciduous	M,P,C	10'	FS	Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans
26	A	*Beaked Hazelnut	Corylus cornuta	Deciduous	M,P	10'	FS	Dry, Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
27	A	*Summer Haw, Yellow Hawthorn	Crateagus flava (56 species in SE)	Deciduous	P,C	20'	FS	Dry, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for hedges, strong root systems, streambanks, right-of-ways, etc. Oct.-Red Pomegranate songbirds.
28	A	*Littlehip Hawthorn, red Haw, Sugar Haw	Crateagus spathulata (56 species in SE)	Deciduous	M,P,C	20'	FS	Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental-crocodon colonies/thicket system, prefers bottomlands, m Oct.-Dec.-Red birds, & songbirds
29	A	*Dwarf Hawthorn, One Flowered Hawthorn	Crateagus uniflora (56 species in SE)	Deciduous	P,C	20'	FS	Dry	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for hedges, strong root systems, forests & margins May-Flowers-worm mammals, garr

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habits
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
30	A	*Parsley Hawthorn	Crateagus marshallii (56 species in SE)	Deciduous	M,P,C	20'	FS	Wet, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for thorns, strong root sites, streambanks Apr.-May-Flowers Eaten by mammals
31	C	*White Titi, Black titi, Leatherwood, Swamp Cyrilla, He-huckberry	Cyrilla racemiflora	Both	C	20'	FS	Wet, Moist	T, S-1-3	Seeds, seedlings, containers 3 to 15 gal.	Fast growing, for sites, stream margins flatwoods depressed stands. Deep red fragrant, Sept.-butterfly nectar
32	A	Bush Honeysuckle	Diervilla sessilifolia	Deciduous	M	5'	FS	Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
33	B	Hearts A'Bustin, Strawberry Bush, Burning Bush, Bursting-heart	Euonymus americanus	Both	M,P,C	5'	FS,P	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, including bottomland & mixed forests green. Sept.-Dec. deer, mammals shade but most
34	A	*Carolina Buckthorn, Indian Cherry, Pole-Cat-Tree	Frangula caroliniana	Deciduous	P,C	5'	FS,P	Dry, Moist	8'x4'	Seeds, seedlings, container 1 to 3 gal.	Occurs on moist habitat, new for open hardwood. Flowers-greenish. Berry/seeds. E
35	A	*Wintergreen	Gaultheria procumbens	Evergreen	M,P,C	5'	P,Shade	Dry, Moist	5x5	Seeds, seedlings, container 1 to 3 gal.	Fast growing, p

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
36	A	Black Huckleberry	Gaylussacia baccata (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group to moist soils in woodlands. Mayberry eaten by butterflies.
37	A	Dwarf Huckleberry, Gopherberry	Gaylussacia dumosa(6 species in SE)	Both	M,P,C	2'	FS	Moist, Dry	2'x2'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group sandy soils of pine elevation pine forest. Flowers-white. mammals, reptiles.
38	A	Blue Huckleberry, Dandleberry	Gaylussacia frondosa (6 species in SE)	Deciduous	P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group and well-drained bays, shrub bays. Flowers-white. mammals, reptiles.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
39	A	Huckleberry, Buckberry	Gaylussacia ursina (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover to moist soils in woodlands. Mayberry eaten by butterflies.
40	A	*Witch Hazel	Hamamelis virginiana	Deciduous	M,P,C	10'	FS,P	Moist	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, caespitose sites, open to sunlight plant in mixed forest margins & borders yellow. Oct.-Nov. & pollinated by
41	D	Swamp Mallow, Wild Cotton	Hibiscus moscheutos	Deciduous	P,C	8'	FS	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streams, marsh June-Oct.-Flows Aug-Nov. Bird

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
42	B	Wild Hydrangea, Climbing Hydrangea, Sevenbark, Mountain Hydrangea	Hydrangea arborescens	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found mostly in rocky streams or mixed a vine. May-Jul Eaten by mammals & butterflies.
43	B	Oak-leaf Hydrangea	Hydrangea quercifolia	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in shady habitats, forests, borders July-Flowers-white mammals, garden butterflies
44	A	Sweet Gallberry, Gay-ball Bush, Shining Inkberry	Ilex coriacea (13 species in SE)	Evergreen	P,C	5'	FS,P	Wet, Moist, Dry	18'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in understory shrubs soils bordering woods, & swamps Feb.-Fruit-black mammals & insects

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
45	A	*Possumhaw	Ilex decidua (13 species in SE)	Deciduous	P,C	8'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrubs in soils bordering forests, low woodlands. Flowers-white. Eaten by songbirds, garr.
46	A	Inkberry, Bitter Gallberry, Evergreen Winterberry	Ilex glabra (13 species in SE)	Evergreen	C	10'	P, Shade	Dry, Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrubs in soils bordering forests, low woodlands, poor soils. May-June. Flowers-white. Eaten by songbirds, g.
47	A	*American Holly	Ilex opaca (13 species in SE)	Evergreen	P,C	20'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for mixed upland & lowland soils. May-June. Fruit. Eaten by songbirds, g.

D. Insects/bees.  
700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359  
gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
48	A	Winterberry	Ilex verticillata (13 species in SE)	Deciduous	M,P,C	8'	FS,P	Wet, Moist	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrubs, soils bordering June-Flowers-v songbirds, garr
49	A	Yaupon Holly	Ilex vomitoria (13 species in SE)	Evergreen	P,C	8'	FS	Moist, Dry	15'x10'	Seedlings, container 3 to 15 gal.	Ornamental, for understory shrubs, prefers acidic soils, open for May-June-Flow Eaten by songbirds, insects/bees.
50	D	Virginia Willow, Sweetspire, Tassel-white, Washington Plume	Itea virginica	Deciduous	P,C	8'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for edge of stream, low woodlands, white. July-Feb butterflies & ins

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
51	A	Mountain Laurel, Mountain Ivy, Calico Bush, Spoonwort	Kalmia latifolia	Evergreen	M,P	5'	FS,P, Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sep white/pink. Sep & birds.
52	A	Sheep Laurel, Lamb Kill, Wicky	Kalmia augustifolia var. caroliniana	Evergreen	P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sep white/pink. Sep & birds.
53	C	Coastal Dog-Hobble	Leucothoe axillaris	Evergreen	C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed with other shrubs.
54	C	Dog-Hobble	Leucothoe editorum	Evergreen	M,P	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed with other shrubs.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
55	C	Fetterbush, Sweetbells	Leucothoe racemosa	Evergreen	P,C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, for wet to moist soil woodlands, bog
56	B	Spicebush	Lindera benzoin	Deciduous	M,P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream aromatic. Eaten by insects.
57	B	Male-Berry, Male-Blueberry	Lyonia ligustrina (5 species in SE)	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
58	C	Fetterbush	Lyonia lucida (5 species in SE)	Deciduous	P,C	5'	FS,P	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
59	A	*Southern Wax Myrtle, Bayberry, Candleberry	Myrica cerifera 5 species in SE	Evergreen	P,C	10'	FS,P	Dry, Moist	25'x20'	Container, 1 to 3 gal.	Non-legume native hedge, spreads roadsides, ditch used to repel insects gamebirds, songbirds

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
60	A	Ninebark	Physocarpus opulifolius	Deciduous	M,P,C	10'	FS,P	Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Occurs along & moist cliffs. A Seeds. Eaten by
61	A	Pasture Rose, Carolina Rose	Rosa carolina	Deciduous	M,P,C	5'	FS	Moist, Dry	3'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, open woodland
62	A	Dwarf Azalea	Rhododendron atlanticum	Deciduous	P,C	6'	FS	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, woods and sav Bird and butterfly
63	B	Flame Azalea	Rhododendron calendulaceum	Deciduous	M,P	8'	FS,P	Moist, Dry	12'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, streams, low w and butterfly fo
64	A	Catawba Rhododendron	Rhododendron catawbiense	Deciduous	M,P	10'	FS	Moist, Dry	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, slopes, ridges & Hummingbird a
65	B	*Rosebay Rhododendron, Great Laurel	Rhododendron maximum	Deciduous	M,P	10'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, and hardwoods

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
66	A	Pinxterbloom Azalea	Rhododendron nudiflorum var. canescens	Deciduous	M,P	6'	P, Shade	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods and thic Bird and butter
67	C	Swamp Azalea	Rhododendron viscosum (R. serrulata)	Deciduous	M,P,C	6'	P, Shade	Wet, Moist	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p swamps. Bird a
68	A	Fragrant Sumac	Rhus aromatica	Deciduous	P,C	5'	FS	Dry	1' -	Seeds, seedlings, containers	Groundcover, f right of ways & Feb.-May-flowe seeds. Seeds e birds.
69	A	*Shining Sumac, Winged Sumac, Dwarf Sumac	Rhus copallina	Deciduous	M,P,C	5'	FS	Moist, Dry	25' -6"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
70	A	*Smooth Sumac, Scarlet Sumac, Common Sumac	Rhus glabra	Deciduous	M,P,C	5'	FS	Moist, Dry	20' -4"	Seeds, seedlings, containers	Fast growing, everywhere & forest n flowers-greenis eaten by mammals
71	A	*Staghorn Sumac, Velvet Sumac	Rhus hirta (Rhus typhina)	Deciduous	M,P	5'	FS	Moist, Dry	30' -8"	Seeds, seedlings, containers	Fast growing, everywhere & forest n flowers-greenis eaten by mammals
72	A	Pasture Rose, Wild Rose	Rosa carolina	Deciduous	M,P,C	5'	FS,P	Dry, Moist	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, everywhere woodland border mammals & mammals
73	C	Swamp Rose	Rosa palustris	Deciduous	M,P,C	10'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, ponds & swamps birds
74	A	Alleghany Blackberry	Rubus s. Eubatus allegheniensis	Deciduous	M,P	5'	FS	Moist, Dry	10'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, ponds woodlands border birds food.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
75	A	Purple Flowering Raspberry	Rubus odoratus	Deciduous	M	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers slopes, streambanks, thorns. Butterflies
76	B	Prairie Willow	Salix humilis	Deciduous	M,P	6'	FS	Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, marsh
77	B	Silky Willow	Salix sericea	Deciduous	M,P	15'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, woodlands
78	D	Common Elderberry, American Elder, Elderberry, Common Elder	Sambucus canadensis	Deciduous	M,P,C	10'	FS	Wet, Moist	12'x10' -6"	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, finds sites, in open habitats, flowers, Aug-Oct, edible to humans and species birds.
79	D	Meadowsweet & Narrow Leaved Meadowsweet	Spiraea tomentosa & Spiraea alba	Deciduous	M,P,C	10'	FS,P	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streambanks, low

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
80	C	Virginia Stewartia, Silky Camelia	Stewartia malacodendron	Deciduous	P,C	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streambanks, l
81	C	Mountain Stewartia	Stewartia ovata	Deciduous	M,P	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streambanks, l
82	A	American Snowbell	Styrax americana	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods, mixed f
83	A	Bigleaf Snowbell	Styrax grandifolia	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods, mixed f
84	A	Sparkleberry	Vaccinium arboreum	Evergreen	P,C	8'	FS,P	Moist, Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p upland, forest u eaten by mamr many birds.
85	A	Black Highbush Blueberry	Vaccinium atrococcum	Evergreen	P,C	8'	FS,P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p forest understo humans. Fruit e

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
86	B	Highbush Blueberry	Vaccinium corymbosum (V.virgata, formosa)	Evergreen	M,P,C	8'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, grows in pocosins, pine and clearings. I by mammals, reptiles and birds
87	A	Creeping Blueberry	Vaccinium crassifolium	Evergreen	P,C	5'	FS	Moist, Dry	2'x1'	Seeds, seedlings, container 1 to 5 gal.	Groundcover; forms dense mats in wet soils, pocosins, understory, and stream banks. Eaten by reptiles, insects and birds. Edible to humans.
88	C	Elliott Blueberry, Mayberry	Vaccinium elliotii	Evergreen	M,P,C	8'	P,Shady	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, grows in streams and swamps. Eaten by mammals, reptiles and birds.
89	A	Huckleberry, Southern Gooseberry	Vaccinium stamineum	Evergreen	M,P,C	8'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, grows in forest understory. Eaten by mammals, reptiles and birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
90	A	Lowbush Blueberry	Vaccinium tenellum	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
91	A	Lowbush Blueberry	Vaccinium vacillans	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
92	B	Maple Leaf Viburnum	Viburnum acerifolium	Deciduous	M,P	6'	FS	Moist	8'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, found in valleys, slopes. Prolific berries
93	B	Southern Arrowwood Viburnum	Viburnum dentatum	Deciduous	M,P,C	6'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, grows in swamps, forms many species of birds
94	B	Possumhaw Viburnum	Viburnum nudum	Deciduous	M,P,C	6'	FS	Wet, Moist	16x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, forms thickets. Many species of birds

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
95	B	Nannyberry	Viburnum lentago	Deciduous	M,P,C	6'	FS	Wet, Moist	20'x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no flowers, Late summer, edible to humans, many species of birds
96	B	Blackhaw Viburnum	Viburnum prunifolium	Deciduous	M,P,C	6'	FS	Moist	25'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no slopes, in thickets, white flowers, fruit to humans.
97	B	Downy Arrowwood	Viburnum rafinesquianum	Deciduous	P	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no and edges of forest, many species of birds
98	B	Rusty Blackhaw	Viburnum rufidulum	Deciduous	P,C	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no of forest, forming many species of
99	D	Yellowroot	Xanthorhiza simplicissima	Deciduous	M,P,C	4'	P,Shade	Wet, Moist	3'x3'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, w streambanks.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
100	References:										
101	Burns, Russell M., and Barbara H. Honkala, tech. coords. 1990. Silvics of North America: 1. Conifers; 2. Hardwoods. Agriculture Handbook 654. B.S. Department of Agriculture (Supersedes Agriculture Handbook 271, Silvics of Forest Trees of the United States, 1965)										
102	Cherri Smith, Resource Management Specialist. 1998. Planting Guidelines: Choosing the Appropriate Trees, Shrubs, Herbs, and Seeds to Plant in our Parks. Department of Environment and Natural Resources, Division of Parks and Recreation, P.O. Box 27687, Raleigh, NC 27699-1615										
103	Radford, Albert E., Ahles, Harry E. and C. Richie Bell. 1968. Manual of the Vascular Flora of the Carolinas. The University of North Carolina Press, Chapel Hill, NC										
104	James H. Miller, Karl V. Miller. 1999. Forest Plants of the Southeast and Their Wildlife Uses. Southern Weed Science Society. Craftmaster Printers, Inc., Auburn, AL.										
105	Chris Moreman, NC State University. Barnes, Thomas. 1999. Gardening for the birds. The University Press of Kentucky. Lexington,										
106											

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
7	D	*Common Alder, Hazel or Tag Alder	Alnus serrulata	Deciduous	M,P,C	5'	FS	Wet, Moist	20' -4"	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful).	Forms thickets, bottomlands, floodplains
8	A	Downy Serviceberry, June Berry	Amelanchier arborea	Deciduous	M,P,C	10'	FS,P	Moist, Dry	25' x 6"	Seeds, seedlings, container 1 gal.	Ornamental, favorite for birds, borders stream. Can be found in wet areas. Flowers, fruit in late summer.
9	A	Hercules Club, Devil's Walking Stick, angelica Tree, Prickly Ash, Toothache Tree	Aralia spinosa	Deciduous	M,P,C	5'	P,Shade	Moist, Wet	15'x10'	Seeds, seedlings, container 1 gal.	Perennial; Ornamental; burgundy, prefers wet areas, thickets, stream banks. Flowers-cream to black. Bird, mammal food.
10	B	Red Chokeberry	Aronia arbutifolia	Deciduous	M,P,C	3'	FS,P	Wet, Moist	5'x4'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, favorite for birds, borders stream. Tolerant of marginal soils. Flowers, Sept-October. Fruit eaten by birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
11	B	Black Chokeberry	Aronia melanocarpa	Deciduous	M,P,C	5'	FS,P	Wet, Moist	6'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, fast growing, borders stream. Tolerant of many soils. Flowers, Sept-October. Fruits eaten by birds.
12	A	Dwarf Pawpaw	Asimina parviflora (8 species in SE)	Deciduous	P,C	5'	FS,P	Dry, Moist	6' x4'	Seeds, seedlings, container 1 gal.	Occurs on moist, shaded habitat, from coastal plain to mountains. Apr.-May-Flowers. Sept.-Fruits/seed pods eaten by butterflies.
13	A	*Silverling, Eastern Baccharis	Baccharis halimifolia	Both	P,C	6'	FS	Moist ,Dry	16'x12'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, spreading, and female plants. Borders stream, shore hammocks. Flowers white/silvery. O

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
14	A	American Beautyberry, French mulberry, Beautybush	Callicarpa americana	Deciduous	P,C	3'	FS, P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, borders stream margins, right-of-way. Flowers-pinkish purple or white. Attracts mammals.
15	A	Sweet-Shrub	Calycanthus floridus	Deciduous	M,P	6'	FS,P	Dry, Moist	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental and forms colonies, common in wet sites, bottomland. Borders stream. June-Flowers-red. Apr.Seeds. Eat.
16	A	*Allegheny Chinkapin	Castanea pumila	Deciduous	M,P,C	10'	FS,P	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, borders stream.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
17	A	New Jersey Tea	Ceanothus americanus 4 species in SE	Deciduous	M,P,C	5'	FS	Moist, Dry	4'x3'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, not growing, prefer margins, well drained roadsides & slopes. white. June-September. Eaten by mammals. & birds.
18	D	*Buttonbush	Cephalanthus occidentalis	Deciduous	M,P,C	4'	FS,P	Wet, Moist	20'x12'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, bordering stream of white flowers. fruit/seeds-butts. Eaten by ducks, songbirds. Leaves poisonous.
19	B	*Sweet Pepperbush, White Alder, Mountain Pepperbush, Cinnamon Clethra	Clethra acuminata	Deciduous	M,P	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border hardwood forest. Increased by drought. white/fragrant. spring. Eaten by insects.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
20	B	*Sweet Pepperbush, White Alder, Summersweet	Clethra alnifolia	Deciduous	P,C	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border savannahs, flat bogs. Intolerant of drainage and fire. Sept.-Feb.-Fruit for mammals, bees
21	A	Sweet Fern	Comptonia peregrina	Both	M,P	10'	FS	Moist, Dry	6'x6'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned
22	A	Wax Myrtle	Comptonia cerifera	Evergreen	P,C	10'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned. High value winter
23	B	Silky Dogwood, Bush Dogwood	Cornus amomum	Deciduous	M,P,C	10'	FS,P	Wet, Moist	10'x 8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for streams, swamps

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
24	C	Swamp Dogwood	Cornus stricta	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, prefers streams, swamps
25	A	*American Hazel, Hazelnut	Corylus americana	Deciduous	M,P,C	10'	FS	Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans
26	A	*Beaked Hazelnut	Corylus cornuta	Deciduous	M,P	10'	FS	Dry, Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
27	A	*Summer Haw, Yellow Hawthorn	Crateagus flava (56 species in SE)	Deciduous	P,C	20'	FS	Dry, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for thorns, strong root sites, streambanks, right-of-ways, etc. Oct.-Red Pomegranate songbirds.
28	A	*Littlehip Hawthorn, red Haw, Sugar Haw	Crateagus spathulata (56 species in SE)	Deciduous	M,P,C	20'	FS	Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental-cro colonies/thicket system, prefers bottomlands, m Oct.-Dec.-Red birds, & songbirds
29	A	*Dwarf Hawthorn, One Flowered Hawthorn	Crateagus uniflora (56 species in SE)	Deciduous	P,C	20'	FS	Dry	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for thorns, strong root forests & margins May-Flowers-w mammals, garr

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habits
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
30	A	*Parsley Hawthorn	Crateagus marshallii (56 species in SE)	Deciduous	M,P,C	20'	FS	Wet, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for thorns, strong root sites, streambanks Apr.-May-Flowers Eaten by mammals
31	C	*White Titi, Black titi, Leatherwood, Swamp Cyrilla, He-huckberry	Cyrilla racemiflora	Both	C	20'	FS	Wet, Moist	T, S-1-3	Seeds, seedlings, containers 3 to 15 gal.	Fast growing, for sites, stream margins flatwoods depressed stands. Deep red fragrant, Sept.-butterfly nectar
32	A	Bush Honeysuckle	Diervilla sessilifolia	Deciduous	M	5'	FS	Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
33	B	Hearts A'Bustin, Strawberry Bush, Burning Bush, Bursting-heart	Euonymus americanus	Both	M,P,C	5'	FS,P	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, including bottomland & mixed forests green. Sept.-Dec. deer, mammals shade but most
34	A	*Carolina Buckthorn, Indian Cherry, Pole-Cat-Tree	Frangula caroliniana	Deciduous	P,C	5'	FS,P	Dry, Moist	8'x4'	Seeds, seedlings, container 1 to 3 gal.	Occurs on moist habitat, new for open hardwood. Flowers-green. Berry/seeds. E
35	A	*Wintergreen	Gaultheria procumbens	Evergreen	M,P,C	5'	P,Shade	Dry, Moist	5x5	Seeds, seedlings, container 1 to 3 gal.	Fast growing, p

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
36	A	Black Huckleberry	Gaylussacia baccata (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group to moist soils in woodlands. Mayberry eaten by butterflies.
37	A	Dwarf Huckleberry, Gopherberry	Gaylussacia dumosa(6 species in SE)	Both	M,P,C	2'	FS	Moist, Dry	2'x2'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group sandy soils of p elevation pine f Flowers-white. mammals, rept
38	A	Blue Huckleberry, Dandleberry	Gaylussacia frondosa (6 species in SE)	Deciduous	P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group and well-drained bays, shrub bays Flowers-white. mammals, rept

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
39	A	Huckleberry, Buckberry	Gaylussacia ursina (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover to moist soils in woodlands. May Berry eaten by butterflies.
40	A	*Witch Hazel	Hamamelis virginiana	Deciduous	M,P,C	10'	FS,P	Moist	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, caespitose sites, open to sunlight plant in mixed forest margins & borders yellow. Oct.-Nov. & pollinated by
41	D	Swamp Mallow, Wild Cotton	Hibiscus moscheutos	Deciduous	P,C	8'	FS	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streams, marsh June-Oct.-Flows Aug-Nov. Bird

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
42	B	Wild Hydrangea, Climbing Hydrangea, Sevenbark, Mountain Hydrangea	Hydrangea arborescens	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found mostly in rocky streams or mixed a vine. May-Jul Eaten by mammals & butterflies.
43	B	Oak-leaf Hydrangea	Hydrangea quercifolia	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in shady habitats, forests, borders July-Flowers-white mammals, garden butterflies
44	A	Sweet Gallberry, Gay-ball Bush, Shining Inkberry	Ilex coriacea (13 species in SE)	Evergreen	P,C	5'	FS,P	Wet, Moist, Dry	18'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in understory shrub soils bordering woods, & swan Feb.-Fruit-black mammals & insects

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
45	A	*Possumhaw	Ilex decidua (13 species in SE)	Deciduous	P,C	8'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrub soils bordering forests, low woodlands. Flowers-white. Eaten by songbirds, garr.
46	A	Inkberry, Bitter Gallberry, Evergreen Winterberry	Ilex glabra (13 species in SE)	Evergreen	C	10'	P, Shade	Dry, Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrub prefers acidic soils woodlands, poor soils. June-July. Eaten by songbirds, g.
47	A	*American Holly	Ilex opaca (13 species in SE)	Evergreen	P,C	20'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for mixed upland & lowland soils. May-June. Eaten by songbirds, g.

D. Insects/bees.

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
48	A	Winterberry	Ilex verticillata (13 species in SE)	Deciduous	M,P,C	8'	FS,P	Wet, Moist	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrubs, soils bordering June-Flowers-v songbirds, garr
49	A	Yaupon Holly	Ilex vomitoria (13 species in SE)	Evergreen	P,C	8'	FS	Moist, Dry	15'x10'	Seedlings, container 3 to 15 gal.	Ornamental, for understory shrubs, prefers acidic soils, open for May-June-Flow Eaten by songbirds, insects/bees.
50	D	Virginia Willow, Sweetspire, Tassel-white, Washington Plume	Itea virginica	Deciduous	P,C	8'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for edge of stream, low woodlands, white. July-Feb butterflies & ins

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
51	A	Mountain Laurel, Mountain Ivy, Calico Bush, Spoonwort	Kalmia latifolia	Evergreen	M,P	5'	FS,P, Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sep white/pink. Sep & birds.
52	A	Sheep Laurel, Lamb Kill, Wicky	Kalmia augustifolia var. caroliniana	Evergreen	P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sep white/pink. Sep & birds.
53	C	Coastal Dog-Hobble	Leucothoe axillaris	Evergreen	C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed with other shrubs.
54	C	Dog-Hobble	Leucothoe editorum	Evergreen	M,P	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed with other shrubs.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
55	C	Fetterbush, Sweetbells	Leucothoe racemosa	Evergreen	P,C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, for wet to moist soil woodlands, bog
56	B	Spicebush	Lindera benzoin	Deciduous	M,P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream aromatic. Eaten by insects.
57	B	Male-Berry, Male-Blueberry	Lyonia ligustrina (5 species in SE)	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
58	C	Fetterbush	Lyonia lucida (5 species in SE)	Deciduous	P,C	5'	FS,P	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
59	A	*Southern Wax Myrtle, Bayberry, Candleberry	Myrica cerifera 5 species in SE	Evergreen	P,C	10'	FS,P	Dry, Moist	25'x20'	Container, 1 to 3 gal.	Non-legume native hedge, spreads roadsides, ditch used to repel insects gamebirds, songbirds

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
60	A	Ninebark	Physocarpus opulifolius	Deciduous	M,P,C	10'	FS,P	Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Occurs along & moist cliffs. A Seeds. Eaten by
61	A	Pasture Rose, Carolina Rose	Rosa carolina	Deciduous	M,P,C	5'	FS	Moist, Dry	3'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p open woodland
62	A	Dwarf Azalea	Rhododendron atlanticum	Deciduous	P,C	6'	FS	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods and sav Bird and butter
63	B	Flame Azalea	Rhododendron calendulaceum	Deciduous	M,P	8'	FS,P	Moist, Dry	12'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streams, low w and butterfly fo
64	A	Catawba Rhododendron	Rhododendron catawbiense	Deciduous	M,P	10'	FS	Moist, Dry	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p slopes, ridges & Hummingbird a
65	B	*Rosebay Rhododendron, Great Laurel	Rhododendron maximum	Deciduous	M,P	10'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p and hardwoods D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
66	A	Pinxterbloom Azalea	Rhododendron nudiflorum var. canescens	Deciduous	M,P	6'	P, Shade	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods and thic Bird and butter
67	C	Swamp Azalea	Rhododendron viscosum (R. serrulata)	Deciduous	M,P,C	6'	P, Shade	Wet, Moist	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p swamps. Bird a
68	A	Fragrant Sumac	Rhus aromatica	Deciduous	P,C	5'	FS	Dry	1' -	Seeds, seedlings, containers	Groundcover, f right of ways & Feb.-May-flowe seeds. Seeds e birds.
69	A	*Shining Sumac, Winged Sumac, Dwarf Sumac	Rhus copallina	Deciduous	M,P,C	5'	FS	Moist, Dry	25' -6"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
70	A	*Smooth Sumac, Scarlet Sumac, Common Sumac	Rhus glabra	Deciduous	M,P,C	5'	FS	Moist, Dry	20' -4"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr
71	A	*Staghorn Sumac, Velvet Sumac	Rhus hirta (Rhus typhina)	Deciduous	M,P	5'	FS	Moist, Dry	30' -8"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr
72	A	Pasture Rose, Wild Rose	Rosa carolina	Deciduous	M,P,C	5'	FS,P	Dry, Moist	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, e woodland bord mammals & m
73	C	Swamp Rose	Rosa palustris	Deciduous	M,P,C	10'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, p ponds & swam birds
74	A	Alleghany Blackberry	Rubus s. Eubatus allegheniensis	Deciduous	M,P	5'	FS	Moist, Dry	10'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woodlands bor bird food.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
75	A	Purple Flowering Raspberry	Rubus odoratus	Deciduous	M	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers slopes, streambanks, thorns. Butterflies
76	B	Prairie Willow	Salix humilis	Deciduous	M,P	6'	FS	Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, marsh
77	B	Silky Willow	Salix sericea	Deciduous	M,P	15'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, woodlands
78	D	Common Elderberry, American Elder, Elderberry, Common Elder	Sambucus canadensis	Deciduous	M,P,C	10'	FS	Wet, Moist	12'x10' -6"	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, finds sites, in open habitats, flowers, Aug-Oct, edible to humans and species birds.
79	D	Meadowsweet & Narrow Leaved Meadowsweet	Spiraea tomentosa & Spiraea alba	Deciduous	M,P,C	10'	FS,P	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streambanks, low

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
80	C	Virginia Stewartia, Silky Camelia	Stewartia malacodendron	Deciduous	P,C	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streambanks, l
81	C	Mountain Stewartia	Stewartia ovata	Deciduous	M,P	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streambanks, l
82	A	American Snowbell	Styrax americana	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods, mixed f
83	A	Bigleaf Snowbell	Styrax grandifolia	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods, mixed f
84	A	Sparkleberry	Vaccinium arboreum	Evergreen	P,C	8'	FS,P	Moist, Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p upland, forest u eaten by mamr many birds.
85	A	Black Highbush Blueberry	Vaccinium atrococcum	Evergreen	P,C	8'	FS,P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p forest understo humans. Fruit e

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
86	B	Highbush Blueberry	Vaccinium corymbosum (V.virgata, formosa)	Evergreen	M,P,C	8'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, pocosins, pine and clearings. I by mammals, reptiles and birds
87	A	Creeping Blueberry	Vaccinium crassifolium	Evergreen	P,C	5'	FS	Moist, Dry	2'x1'	Seeds, seedlings, container 1 to 5 gal.	Groundcover; forms dense mats in moist soils, pocosins, understory, and stream banks. Eaten by reptiles, insects and birds. Edible to humans.
88	C	Elliott Blueberry, Mayberry	Vaccinium elliotii	Evergreen	M,P,C	8'	P,Shady	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, streams and swamps. Eaten by mammals, reptiles and birds.
89	A	Huckleberry, Southern Gooseberry	Vaccinium stamineum	Evergreen	M,P,C	8'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, forest understory. Eaten by mammals, reptiles and birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
90	A	Lowbush Blueberry	Vaccinium tenellum	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
91	A	Lowbush Blueberry	Vaccinium vacillans	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
92	B	Maple Leaf Viburnum	Viburnum acerifolium	Deciduous	M,P	6'	FS	Moist	8'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, found in valleys, slopes. Prolific berries
93	B	Southern Arrowwood Viburnum	Viburnum dentatum	Deciduous	M,P,C	6'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, grows in swamps, forms many species of birds
94	B	Possumhaw Viburnum	Viburnum nudum	Deciduous	M,P,C	6'	FS	Wet, Moist	16x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, forms thickets. Many species of birds

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
95	B	Nannyberry	Viburnum lentago	Deciduous	M,P,C	6'	FS	Wet, Moist	20'x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no flowers, Late summer, edible to humans, species of birds
96	B	Blackhaw Viburnum	Viburnum prunifolium	Deciduous	M,P,C	6'	FS	Moist	25'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no slopes, in thickets, white flowers, fruit to humans.
97	B	Downy Arrowwood	Viburnum rafinesquianum	Deciduous	P	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no and edges of forest, species of birds
98	B	Rusty Blackhaw	Viburnum rufidulum	Deciduous	P,C	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no of forest, forming many species of
99	D	Yellowroot	Xanthorhiza simplicissima	Deciduous	M,P,C	4'	P,Shade	Wet, Moist	3'x3'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, w streambanks.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
100	References:										
101	Burns, Russell M., and Barbara H. Honkala, tech. coords. 1990. Silvics of North America: 1. Conifers; 2. Hardwoods. Agriculture Handbook 654. B.S. Department of Agriculture (Supersedes Agriculture Handbook 271, Silvics of Forest Trees of the United States, 1965)										
102	Cherri Smith, Resource Management Specialist. 1998. Planting Guidelines: Choosing the Appropriate Trees, Shrubs, Herbs, and Seeds to Plant in our Parks. Department of Environment and Natural Resources, Division of Parks and Recreation, P.O. Box 27687, Raleigh, NC 27699-1615										
103	Radford, Albert E., Ahles, Harry E. and C. Richie Bell. 1968. Manual of the Vascular Flora of the Carolinas. The University of North Carolina Press, Chapel Hill, NC										
104	James H. Miller, Karl V. Miller. 1999. Forest Plants of the Southeast and Their Wildlife Uses. Southern Weed Science Society. Craftmaster Printers, Inc., Auburn, AL.										
105	Chris Moreman, NC State University. Barnes, Thomas. 1999. Gardening for the birds. The University Press of Kentucky. Lexington,										
106											

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
7	D	*Common Alder, Hazel or Tag Alder	Alnus serrulata	Deciduous	M,P,C	5'	FS	Wet, Moist	20' -4"	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful).	Forms thickets, bottomlands, floodplains
8	A	Downy Serviceberry, June Berry	Amelanchier arborea	Deciduous	M,P,C	10'	FS,P	Moist, Dry	25' x 6"	Seeds, seedlings, container 1 gal.	Ornamental, favorite for birds, borders stream. Can be found in wet areas. Flowers, fruit in late summer.
9	A	Hercules Club, Devil's Walking Stick, angelica Tree, Prickly Ash, Toothache Tree	Aralia spinosa	Deciduous	M,P,C	5'	P,Shade	Moist, Wet	15'x10'	Seeds, seedlings, container 1 gal.	Perennial; Ornamental; burgundy, prefers wet areas, thickets, stream banks. Flowers-cream to black. Bird, mammal food.
10	B	Red Chokeberry	Aronia arbutifolia	Deciduous	M,P,C	3'	FS,P	Wet, Moist	5'x4'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, favorite for birds, borders stream. Tolerant of marginal soils. Flowers, Sept-October. Fruit eaten by birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
11	B	Black Chokeberry	Aronia melanocarpa	Deciduous	M,P,C	5'	FS,P	Wet, Moist	6'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, fast growing, borders stream. Tolerant of many soils. Flowers, Sept.-Oct. Fruits eaten by birds.
12	A	Dwarf Pawpaw	Asimina parviflora (8 species in SE)	Deciduous	P,C	5'	FS,P	Dry, Moist	6' x4'	Seeds, seedlings, container 1 gal.	Occurs on moist, shaded habitat, from coast to interior. Apr.-May-Flowers. Sept.-Fruits/seeded. Attracts butterflies.
13	A	*Silverling, Eastern Baccharis	Baccharis halimifolia	Both	P,C	6'	FS	Moist ,Dry	16'x12'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, spreading, and female plants. Borders stream, shore hammocks. White/silvery. O

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
14	A	American Beautyberry, French mulberry, Beautybush	Callicarpa americana	Deciduous	P,C	3'	FS, P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, borders stream margins, right-of-way. Flowers-pinkish purple or white. Attracts mammals.
15	A	Sweet-Shrub	Calycanthus floridus	Deciduous	M,P	6'	FS,P	Dry, Moist	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental and forms colonies, common in wet sites, bottomland. Borders stream. June-Flowers-red. Apr.Seeds. Eat.
16	A	*Allegheny Chinkapin	Castanea pumila	Deciduous	M,P,C	10'	FS,P	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, borders stream.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
17	A	New Jersey Tea	Ceanothus americanus 4 species in SE	Deciduous	M,P,C	5'	FS	Moist, Dry	4'x3'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, not growing, prefer margins, well drained roadsides & slopes. White. June-September. Eaten by mammals. & birds.
18	D	*Buttonbush	Cephalanthus occidentalis	Deciduous	M,P,C	4'	FS,P	Wet, Moist	20'x12'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, bordering stream of white flowers. Fruit/seeds-butts. Eaten by ducks, songbirds. Leaves poisonous.
19	B	*Sweet Pepperbush, White Alder, Mountain Pepperbush, Cinnamon Clethra	Clethra acuminata	Deciduous	M,P	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border hardwood forest. Increased by drought. White/fragrant. spring. Eaten by insects.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
20	B	*Sweet Pepperbush, White Alder, Summersweet	Clethra alnifolia	Deciduous	P,C	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border savannahs, flat bogs. Intolerant of drainage and fire. Sept.-Feb.-Fruit for mammals, bees
21	A	Sweet Fern	Comptonia peregrina	Both	M,P	10'	FS	Moist, Dry	6'x6'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned
22	A	Wax Myrtle	Comptonia cerifera	Evergreen	P,C	10'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned. High value winter
23	B	Silky Dogwood, Bush Dogwood	Cornus amomum	Deciduous	M,P,C	10'	FS,P	Wet, Moist	10'x 8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for streams, swamps

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
24	C	Swamp Dogwood	Cornus stricta	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, prefers streams, swamps
25	A	*American Hazel, Hazelnut	Corylus americana	Deciduous	M,P,C	10'	FS	Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans
26	A	*Beaked Hazelnut	Corylus cornuta	Deciduous	M,P	10'	FS	Dry, Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
27	A	*Summer Haw, Yellow Hawthorn	Crateagus flava (56 species in SE)	Deciduous	P,C	20'	FS	Dry, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for hedges, strong root system, streambanks, right-of-ways, etc. Oct.-Red Pomegranate songbirds.
28	A	*Littlehip Hawthorn, red Haw, Sugar Haw	Crateagus spathulata (56 species in SE)	Deciduous	M,P,C	20'	FS	Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental-crocodon colonies/thicket system, prefers bottomlands, m Oct.-Dec.-Red birds, & songbirds
29	A	*Dwarf Hawthorn, One Flowered Hawthorn	Crateagus uniflora (56 species in SE)	Deciduous	P,C	20'	FS	Dry	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for hedges, strong root system, forests & margins May-Flowers-worms mammals, garr

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habits
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
30	A	*Parsley Hawthorn	Crateagus marshallii (56 species in SE)	Deciduous	M,P,C	20'	FS	Wet, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for thorns, strong root sites, streambanks Apr.-May-Flowers Eaten by mammals
31	C	*White Titi, Black titi, Leatherwood, Swamp Cyrilla, He-huckberry	Cyrilla racemiflora	Both	C	20'	FS	Wet, Moist	T, S-1-3	Seeds, seedlings, containers 3 to 15 gal.	Fast growing, for sites, stream margins flatwoods depressed stands. Deep red fragrant, Sept.-butterfly nectar
32	A	Bush Honeysuckle	Diervilla sessilifolia	Deciduous	M	5'	FS	Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, p

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
33	B	Hearts A'Bustin, Strawberry Bush, Burning Bush, Bursting-heart	Euonymus americanus	Both	M,P,C	5'	FS,P	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, including bottomland & mixed forests green. Sept.-Dec. deer, mammals shade but most
34	A	*Carolina Buckthorn, Indian Cherry, Pole-Cat-Tree	Frangula caroliniana	Deciduous	P,C	5'	FS,P	Dry, Moist	8'x4'	Seeds, seedlings, container 1 to 3 gal.	Occurs on moist habitat, new for open hardwood. Flowers-green. Berry/seeds. E
35	A	*Wintergreen	Gaultheria procumbens	Evergreen	M,P,C	5'	P,Shade	Dry, Moist	5x5	Seeds, seedlings, container 1 to 3 gal.	Fast growing, p

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
36	A	Black Huckleberry	Gaylussacia baccata (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group to moist soils in woodlands. Mayberry eaten by butterflies.
37	A	Dwarf Huckleberry, Gopherberry	Gaylussacia dumosa(6 species in SE)	Both	M,P,C	2'	FS	Moist, Dry	2'x2'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group sandy soils of p elevation pine f Flowers-white. mammals, rept
38	A	Blue Huckleberry, Dandleberry	Gaylussacia frondosa (6 species in SE)	Deciduous	P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group and well-drained bays, shrub bays Flowers-white. mammals, rept

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
39	A	Huckleberry, Buckberry	Gaylussacia ursina (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover to moist soils in woodlands. May Berry eaten by butterflies.
40	A	*Witch Hazel	Hamamelis virginiana	Deciduous	M,P,C	10'	FS,P	Moist	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, caespitose sites, open to sunlight plant in mixed forest margins & borders yellow. Oct.-Nov. & pollinated by
41	D	Swamp Mallow, Wild Cotton	Hibiscus moscheutos	Deciduous	P,C	8'	FS	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streams, marsh June-Oct.-Flows Aug-Nov. Bird

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
42	B	Wild Hydrangea, Climbing Hydrangea, Sevenbark, Mountain Hydrangea	Hydrangea arborescens	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found mostly in rocky streams or mixed a vine. May-Jul Eaten by mammals & butterflies.
43	B	Oak-leaf Hydrangea	Hydrangea quercifolia	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in shady habitats, forests, borders July-Flowers-white mammals, garden butterflies
44	A	Sweet Gallberry, Gay-ball Bush, Shining Inkberry	Ilex coriacea (13 species in SE)	Evergreen	P,C	5'	FS,P	Wet, Moist, Dry	18'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in understory shrub soils bordering woods, & swamps Feb.-Fruit-black mammals & insects

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
45	A	*Possumhaw	Ilex decidua (13 species in SE)	Deciduous	P,C	8'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrub soils bordering forests, low woodlands. Flowers-white. Eaten by songbirds, garr.
46	A	Inkberry, Bitter Gallberry, Evergreen Winterberry	Ilex glabra (13 species in SE)	Evergreen	C	10'	P, Shade	Dry, Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrub prefers acidic soils woodlands, poor soils. June-July. Flowers-white. Eaten by songbirds, g.
47	A	*American Holly	Ilex opaca (13 species in SE)	Evergreen	P,C	20'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for mixed upland & lowland soils. May-June. Fruit. Eaten by songbirds, g.

D. Insects/bees.

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
48	A	Winterberry	Ilex verticillata (13 species in SE)	Deciduous	M,P,C	8'	FS,P	Wet, Moist	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrubs, soils bordering June-Flowers-v songbirds, garr
49	A	Yaupon Holly	Ilex vomitoria (13 species in SE)	Evergreen	P,C	8'	FS	Moist, Dry	15'x10'	Seedlings, container 3 to 15 gal.	Ornamental, for understory shrubs, prefers acidic soils, open for May-June-Flowers, Eaten by songbirds, insects/bees.
50	D	Virginia Willow, Sweetspire, Tassel-white, Washington Plume	Itea virginica	Deciduous	P,C	8'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for edge of stream, low woodlands, white. July-Feb butterflies & insects

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
51	A	Mountain Laurel, Mountain Ivy, Calico Bush, Spoonwort	Kalmia latifolia	Evergreen	M,P	5'	FS,P, Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sep white/pink. Sep & birds.
52	A	Sheep Laurel, Lamb Kill, Wicky	Kalmia augustifolia var. caroliniana	Evergreen	P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sep white/pink. Sep & birds.
53	C	Coastal Dog-Hobble	Leucothoe axillaris	Evergreen	C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed with other shrubs.
54	C	Dog-Hobble	Leucothoe editorum	Evergreen	M,P	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed with other shrubs.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
55	C	Fetterbush, Sweetbells	Leucothoe racemosa	Evergreen	P,C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, for wet to moist soil woodlands, bog
56	B	Spicebush	Lindera benzoin	Deciduous	M,P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream aromatic. Eaten by insects.
57	B	Male-Berry, Male-Blueberry	Lyonia ligustrina (5 species in SE)	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
58	C	Fetterbush	Lyonia lucida (5 species in SE)	Deciduous	P,C	5'	FS,P	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
59	A	*Southern Wax Myrtle, Bayberry, Candleberry	Myrica cerifera 5 species in SE	Evergreen	P,C	10'	FS,P	Dry, Moist	25'x20'	Container, 1 to 3 gal.	Non-legume native hedge, spreads roadsides, ditch used to repel insects gamebirds, songbirds

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
60	A	Ninebark	Physocarpus opulifolius	Deciduous	M,P,C	10'	FS,P	Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Occurs along & moist cliffs. A Seeds. Eaten by
61	A	Pasture Rose, Carolina Rose	Rosa carolina	Deciduous	M,P,C	5'	FS	Moist, Dry	3'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p open woodland
62	A	Dwarf Azalea	Rhododendron atlanticum	Deciduous	P,C	6'	FS	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods and sav Bird and butter
63	B	Flame Azalea	Rhododendron calendulaceum	Deciduous	M,P	8'	FS,P	Moist, Dry	12'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streams, low w and butterfly fo
64	A	Catawba Rhododendron	Rhododendron catawbiense	Deciduous	M,P	10'	FS	Moist, Dry	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p slopes, ridges & Hummingbird a
65	B	*Rosebay Rhododendron, Great Laurel	Rhododendron maximum	Deciduous	M,P	10'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p and hardwoods D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
66	A	Pinxterbloom Azalea	Rhododendron nudiflorum var. canescens	Deciduous	M,P	6'	P, Shade	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods and thic Bird and butter
67	C	Swamp Azalea	Rhododendron viscosum (R. serrulata)	Deciduous	M,P,C	6'	P, Shade	Wet, Moist	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p swamps. Bird a
68	A	Fragrant Sumac	Rhus aromatica	Deciduous	P,C	5'	FS	Dry	1' -	Seeds, seedlings, containers	Groundcover, f right of ways & Feb.-May-flowe seeds. Seeds e birds.
69	A	*Shining Sumac, Winged Sumac, Dwarf Sumac	Rhus copallina	Deciduous	M,P,C	5'	FS	Moist, Dry	25' -6"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
70	A	*Smooth Sumac, Scarlet Sumac, Common Sumac	Rhus glabra	Deciduous	M,P,C	5'	FS	Moist, Dry	20' -4"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr
71	A	*Staghorn Sumac, Velvet Sumac	Rhus hirta (Rhus typhina)	Deciduous	M,P	5'	FS	Moist, Dry	30' -8"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr
72	A	Pasture Rose, Wild Rose	Rosa carolina	Deciduous	M,P,C	5'	FS,P	Dry, Moist	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, e woodland bord mammals & m
73	C	Swamp Rose	Rosa palustris	Deciduous	M,P,C	10'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, ponds & swam birds
74	A	Alleghany Blackberry	Rubus s. Eubatus allegheniensis	Deciduous	M,P	5'	FS	Moist, Dry	10'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woodlands bor bird food.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
75	A	Purple Flowering Raspberry	Rubus odoratus	Deciduous	M	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers slopes, streambanks, thorns. Butterflies.
76	B	Prairie Willow	Salix humilis	Deciduous	M,P	6'	FS	Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, marshes.
77	B	Silky Willow	Salix sericea	Deciduous	M,P	15'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, woodlands.
78	D	Common Elderberry, American Elder, Elderberry, Common Elder	Sambucus canadensis	Deciduous	M,P,C	10'	FS	Wet, Moist	12'x10' -6"	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, finds sites, in open habitats, flowers, Aug-Oct. Edible to humans and species birds.
79	D	Meadowsweet & Narrow Leaved Meadowsweet	Spiraea tomentosa & Spiraea alba	Deciduous	M,P,C	10'	FS,P	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streambanks, low wet areas.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
80	C	Virginia Stewartia, Silky Camelia	Stewartia malacodendron	Deciduous	P,C	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streambanks, low
81	C	Mountain Stewartia	Stewartia ovata	Deciduous	M,P	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streambanks, low
82	A	American Snowbell	Styrax americana	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers woods, mixed forest
83	A	Bigleaf Snowbell	Styrax grandifolia	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers woods, mixed forest
84	A	Sparkleberry	Vaccinium arboreum	Evergreen	P,C	8'	FS,P	Moist, Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers upland, forest understory eaten by mammals and many birds.
85	A	Black Highbush Blueberry	Vaccinium atrococcum	Evergreen	P,C	8'	FS,P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers forest understory. Fruit eaten by humans.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
86	B	Highbush Blueberry	Vaccinium corymbosum (V.virgata, formosa)	Evergreen	M,P,C	8'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, grows in pocosins, pine and clearings. I by mammals, reptiles and birds
87	A	Creeping Blueberry	Vaccinium crassifolium	Evergreen	P,C	5'	FS	Moist, Dry	2'x1'	Seeds, seedlings, container 1 to 5 gal.	Groundcover; forms dense mats in wet soils, pocosins, understory, and stream banks. Eaten by reptiles, insects and birds. Edible to humans.
88	C	Elliott Blueberry, Mayberry	Vaccinium elliotii	Evergreen	M,P,C	8'	P,Shady	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, grows in streams and swamps. Eaten by mammals, reptiles and birds.
89	A	Huckleberry, Southern Gooseberry	Vaccinium stamineum	Evergreen	M,P,C	8'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, grows in forest understory. Eaten by mammals, reptiles and birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
90	A	Lowbush Blueberry	Vaccinium tenellum	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
91	A	Lowbush Blueberry	Vaccinium vacillans	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
92	B	Maple Leaf Viburnum	Viburnum acerifolium	Deciduous	M,P	6'	FS	Moist	8'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, found in valleys, slopes. Prolific berries
93	B	Southern Arrowwood Viburnum	Viburnum dentatum	Deciduous	M,P,C	6'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, found in swamps, forms many species of birds
94	B	Possumhaw Viburnum	Viburnum nudum	Deciduous	M,P,C	6'	FS	Wet, Moist	16x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, forms thickets. Many species of birds

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
95	B	Nannyberry	Viburnum lentago	Deciduous	M,P,C	6'	FS	Wet, Moist	20'x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no flowers, Late summer, edible to humans, species of birds
96	B	Blackhaw Viburnum	Viburnum prunifolium	Deciduous	M,P,C	6'	FS	Moist	25'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no slopes, in thickets, white flowers, fruit to humans.
97	B	Downy Arrowwood	Viburnum rafinesquianum	Deciduous	P	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no and edges of forest, species of birds
98	B	Rusty Blackhaw	Viburnum rufidulum	Deciduous	P,C	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no of forest, forming many species of
99	D	Yellowroot	Xanthorhiza simplicissima	Deciduous	M,P,C	4'	P,Shade	Wet, Moist	3'x3'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, w streambanks.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
100	References:										
101	Burns, Russell M., and Barbara H. Honkala, tech. coords. 1990. Silvics of North America: 1. Conifers; 2. Hardwoods. Agriculture Handbook 654. B.S. Department of Agriculture (Supersedes Agriculture Handbook 271, Silvics of Forest Trees of the United States, 1965)										
102	Cherri Smith, Resource Management Specialist. 1998. Planting Guidelines: Choosing the Appropriate Trees, Shrubs, Herbs, and Seeds to Plant in our Parks. Department of Environment and Natural Resources, Division of Parks and Recreation, P.O. Box 27687, Raleigh, NC 27699-1615										
103	Radford, Albert E., Ahles, Harry E. and C. Richie Bell. 1968. Manual of the Vascular Flora of the Carolinas. The University of North Carolina Press, Chapel Hill, NC										
104	James H. Miller, Karl V. Miller. 1999. Forest Plants of the Southeast and Their Wildlife Uses. Southern Weed Science Society. Craftmaster Printers, Inc., Auburn, AL.										
105	Chris Moreman, NC State University. Barnes, Thomas. 1999. Gardening for the birds. The University Press of Kentucky. Lexington,										
106											

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
7	D	*Common Alder, Hazel or Tag Alder	Alnus serrulata	Deciduous	M,P,C	5'	FS	Wet, Moist	20' -4"	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful).	Forms thickets, bottomlands, floodplains
8	A	Downy Serviceberry, June Berry	Amelanchier arborea	Deciduous	M,P,C	10'	FS,P	Moist, Dry	25' x 6"	Seeds, seedlings, container 1 gal.	Ornamental, favorite for birds, bordering streams. Can be found in wet areas. flowers, fruit in late summer.
9	A	Hercules Club, Devil's Walking Stick, angelica Tree, Prickly Ash, Toothache Tree	Aralia spinosa	Deciduous	M,P,C	5'	P,Shade	Moist, Wet	15'x10'	Seeds, seedlings, container 1 gal.	Perennial; Ornamental; burgundy, prefers wet areas, thickets, stream banks. Flowers-cream to black. Bird, mammal food.
10	B	Red Chokeberry	Aronia arbutifolia	Deciduous	M,P,C	3'	FS,P	Wet, Moist	5'x4'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, favorite for birds, bordering streams. Tolerant of marginal soils. D. flowers, Sept-F. Fruits eaten by birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
11	B	Black Chokeberry	Aronia melanocarpa	Deciduous	M,P,C	5'	FS,P	Wet, Moist	6'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, fast growing, borders stream. Tolerant of many soils. Flowers, Sept-Feb. Fruits eaten by birds.
12	A	Dwarf Pawpaw	Asimina parviflora (8 species in SE)	Deciduous	P,C	5'	FS,P	Dry, Moist	6' x4'	Seeds, seedlings, container 1 gal.	Occurs on moist, shaded habitat, from coast to interior. Apr.-May-Flowers. Sept.-Fruits/seeded. Attracts butterflies.
13	A	*Silverling, Eastern Baccharis	Baccharis halimifolia	Both	P,C	6'	FS	Moist ,Dry	16'x12'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, spreading, and female plants. Borders stream, shore hammocks. White/silvery. O

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
14	A	American Beautyberry, French mulberry, Beautybush	Callicarpa americana	Deciduous	P,C	3'	FS, P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, borders stream margins, right-of-way. Flowers-pinkish purple or white. Attracts mammals.
15	A	Sweet-Shrub	Calycanthus floridus	Deciduous	M,P	6'	FS,P	Dry, Moist	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental and forms colonies, common in wet sites, bottomland. Borders stream. June-Flowers-red. Apr.Seeds. Eat.
16	A	*Allegheny Chinkapin	Castanea pumila	Deciduous	M,P,C	10'	FS,P	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, borders stream.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
17	A	New Jersey Tea	Ceanothus americanus 4 species in SE	Deciduous	M,P,C	5'	FS	Moist, Dry	4'x3'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, not growing, prefer margins, well drained roadsides & slopes. white. June-September. Eaten by mammals. & birds.
18	D	*Buttonbush	Cephalanthus occidentalis	Deciduous	M,P,C	4'	FS,P	Wet, Moist	20'x12'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, bordering stream of white flowers. fruit/seeds-butts. Eaten by ducks, songbirds. Leaves poisonous.
19	B	*Sweet Pepperbush, White Alder, Mountain Pepperbush, Cinnamon Clethra	Clethra acuminata	Deciduous	M,P	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border hardwood forest. Increased by drought. white/fragrant. spring. Eaten by insects.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
20	B	*Sweet Pepperbush, White Alder, Summersweet	Clethra alnifolia	Deciduous	P,C	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border savannahs, flat bogs. Intolerant of poor drainage and frost. Sept.-Feb.-Fruit for mammals, bees
21	A	Sweet Fern	Comptonia peregrina	Both	M,P	10'	FS	Moist, Dry	6'x6'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned
22	A	Wax Myrtle	Comptonia cerifera	Evergreen	P,C	10'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned. High value winter
23	B	Silky Dogwood, Bush Dogwood	Cornus amomum	Deciduous	M,P,C	10'	FS,P	Wet, Moist	10'x 8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for streams, swamps

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
24	C	Swamp Dogwood	Cornus stricta	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, prefers streams, swamps
25	A	*American Hazel, Hazelnut	Corylus americana	Deciduous	M,P,C	10'	FS	Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans
26	A	*Beaked Hazelnut	Corylus cornuta	Deciduous	M,P	10'	FS	Dry, Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
27	A	*Summer Haw, Yellow Hawthorn	Crateagus flava (56 species in SE)	Deciduous	P,C	20'	FS	Dry, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for hedges, strong root system, streambanks, right-of-ways, etc. Oct.-Red Pomegranate songbirds.
28	A	*Littlehip Hawthorn, red Haw, Sugar Haw	Crateagus spathulata (56 species in SE)	Deciduous	M,P,C	20'	FS	Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental-crocodon colonies/thicket system, prefers bottomlands, m Oct.-Dec.-Red birds, & songbirds
29	A	*Dwarf Hawthorn, One Flowered Hawthorn	Crateagus uniflora (56 species in SE)	Deciduous	P,C	20'	FS	Dry	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for hedges, strong root system, forests & margins May-Flowers-worm mammals, garr

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habits
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
30	A	*Parsley Hawthorn	Crateagus marshallii (56 species in SE)	Deciduous	M,P,C	20'	FS	Wet, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for thorns, strong root sites, streambanks Apr.-May-Flowers Eaten by mammals
31	C	*White Titi, Black titi, Leatherwood, Swamp Cyrilla, He-huckberry	Cyrilla racemiflora	Both	C	20'	FS	Wet, Moist	T, S-1-3	Seeds, seedlings, containers 3 to 15 gal.	Fast growing, for sites, stream margins flatwoods depressed stands. Deep red fragrant, Sept.-butterfly nectar
32	A	Bush Honeysuckle	Diervilla sessilifolia	Deciduous	M	5'	FS	Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, p

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
33	B	Hearts A'Bustin, Strawberry Bush, Burning Bush, Bursting-heart	Euonymus americanus	Both	M,P,C	5'	FS,P	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, including bottomland & mixed forests green. Sept.-Dec. deer, mammals shade but most
34	A	*Carolina Buckthorn, Indian Cherry, Pole-Cat-Tree	Frangula caroliniana	Deciduous	P,C	5'	FS,P	Dry, Moist	8'x4'	Seeds, seedlings, container 1 to 3 gal.	Occurs on moist habitat, new for open hardwood. Flowers-greenish. Berry/seeds. E
35	A	*Wintergreen	Gaultheria procumbens	Evergreen	M,P,C	5'	P,Shade	Dry, Moist	5x5	Seeds, seedlings, container 1 to 3 gal.	Fast growing, p

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
36	A	Black Huckleberry	Gaylussacia baccata (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover to moist soils in woodlands. May be eaten by butterflies.
37	A	Dwarf Huckleberry, Gopherberry	Gaylussacia dumosa(6 species in SE)	Both	M,P,C	2'	FS	Moist, Dry	2'x2'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover sandy soils of pine elevation pine forest. Flowers-white. mammals, reptiles.
38	A	Blue Huckleberry, Dandleberry	Gaylussacia frondosa (6 species in SE)	Deciduous	P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover and well-drained bays, shrub border. Flowers-white. mammals, reptiles.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
39	A	Huckleberry, Buckberry	Gaylussacia ursina (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover to moist soils in woodlands. May Berry eaten by butterflies.
40	A	*Witch Hazel	Hamamelis virginiana	Deciduous	M,P,C	10'	FS,P	Moist	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, ca sites, open to s plant in mixed f margins & border yellow. Oct.-Nov. & pollinated by
41	D	Swamp Mallow, Wild Cotton	Hibiscus moscheutos	Deciduous	P,C	8'	FS	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streams, marsh June-Oct.-Flow Aug-Nov. Bird d

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
42	B	Wild Hydrangea, Climbing Hydrangea, Sevenbark, Mountain Hydrangea	Hydrangea arborescens	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found mostly in rocky streams or mixed a vine. May-July Eaten by mammals & butterflies.
43	B	Oak-leaf Hydrangea	Hydrangea quercifolia	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in shady habitats, forests, borders July-Flowers-white mammals, garden butterflies
44	A	Sweet Gallberry, Gay-ball Bush, Shining Inkberry	Ilex coriacea (13 species in SE)	Evergreen	P,C	5'	FS,P	Wet, Moist, Dry	18'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in understory shrub soils bordering woods, & swamps Feb.-Fruit-black mammals & insects

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
45	A	*Possumhaw	Ilex decidua (13 species in SE)	Deciduous	P,C	8'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrub soils bordering forests, low woodlands. Flowers-white. Eaten by songbirds, garr.
46	A	Inkberry, Bitter Gallberry, Evergreen Winterberry	Ilex glabra (13 species in SE)	Evergreen	C	10'	P, Shade	Dry, Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrub prefers acidic soils woodlands, poor soils. June-July. Flowers-white. Eaten by songbirds, g.
47	A	*American Holly	Ilex opaca (13 species in SE)	Evergreen	P,C	20'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for mixed upland & lowland soils. May-June. Fruit. Eaten by songbirds, g.

D. Insects/bees.  
700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359  
gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
48	A	Winterberry	Ilex verticillata (13 species in SE)	Deciduous	M,P,C	8'	FS,P	Wet, Moist	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrubs, soils bordering June-Flowers-v songbirds, garr
49	A	Yaupon Holly	Ilex vomitoria (13 species in SE)	Evergreen	P,C	8'	FS	Moist, Dry	15'x10'	Seedlings, container 3 to 15 gal.	Ornamental, for understory shrubs, prefers acidic soils, open for May-June-Flow Eaten by songbirds, insects/bees.
50	D	Virginia Willow, Sweetspire, Tassel-white, Washington Plume	Itea virginica	Deciduous	P,C	8'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for edge of stream, low woodlands, white. July-Feb butterflies & insects

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
51	A	Mountain Laurel, Mountain Ivy, Calico Bush, Spoonwort	Kalmia latifolia	Evergreen	M,P	5'	FS,P, Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sep white/pink. Sep & birds.
52	A	Sheep Laurel, Lamb Kill, Wicky	Kalmia augustifolia var. caroliniana	Evergreen	P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sep white/pink. Sep & birds.
53	C	Coastal Dog-Hobble	Leucothoe axillaris	Evergreen	C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed with other shrubs.
54	C	Dog-Hobble	Leucothoe editorum	Evergreen	M,P	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed with other shrubs.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
55	C	Fetterbush, Sweetbells	Leucothoe racemosa	Evergreen	P,C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, for wet to moist soil woodlands, bog
56	B	Spicebush	Lindera benzoin	Deciduous	M,P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream aromatic. Eaten by insects.
57	B	Male-Berry, Male-Blueberry	Lyonia ligustrina (5 species in SE)	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
58	C	Fetterbush	Lyonia lucida (5 species in SE)	Deciduous	P,C	5'	FS,P	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
59	A	*Southern Wax Myrtle, Bayberry, Candleberry	Myrica cerifera 5 species in SE	Evergreen	P,C	10'	FS,P	Dry, Moist	25'x20'	Container, 1 to 3 gal.	Non-legume native hedge, spreads roadsides, ditch used to repel insects gamebirds, songbirds

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
60	A	Ninebark	Physocarpus opulifolius	Deciduous	M,P,C	10'	FS,P	Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Occurs along & moist cliffs. A Seeds. Eaten by
61	A	Pasture Rose, Carolina Rose	Rosa carolina	Deciduous	M,P,C	5'	FS	Moist, Dry	3'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p open woodland
62	A	Dwarf Azalea	Rhododendron atlanticum	Deciduous	P,C	6'	FS	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods and sav Bird and butter
63	B	Flame Azalea	Rhododendron calendulaceum	Deciduous	M,P	8'	FS,P	Moist, Dry	12'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streams, low w and butterfly fo
64	A	Catawba Rhododendron	Rhododendron catawbiense	Deciduous	M,P	10'	FS	Moist, Dry	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p slopes, ridges & Hummingbird a
65	B	*Rosebay Rhododendron, Great Laurel	Rhododendron maximum	Deciduous	M,P	10'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p and hardwoods

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
66	A	Pinxterbloom Azalea	Rhododendron nudiflorum var. canescens	Deciduous	M,P	6'	P, Shade	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods and thic Bird and butter
67	C	Swamp Azalea	Rhododendron viscosum (R. serrulata)	Deciduous	M,P,C	6'	P, Shade	Wet, Moist	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p swamps. Bird a
68	A	Fragrant Sumac	Rhus aromatica	Deciduous	P,C	5'	FS	Dry	1' -	Seeds, seedlings, containers	Groundcover, f right of ways & Feb.-May-flowe seeds. Seeds e birds.
69	A	*Shining Sumac, Winged Sumac, Dwarf Sumac	Rhus copallina	Deciduous	M,P,C	5'	FS	Moist, Dry	25' -6"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
70	A	*Smooth Sumac, Scarlet Sumac, Common Sumac	Rhus glabra	Deciduous	M,P,C	5'	FS	Moist, Dry	20' -4"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr
71	A	*Staghorn Sumac, Velvet Sumac	Rhus hirta (Rhus typhina)	Deciduous	M,P	5'	FS	Moist, Dry	30' -8"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr
72	A	Pasture Rose, Wild Rose	Rosa carolina	Deciduous	M,P,C	5'	FS,P	Dry, Moist	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, e woodland bord mammals & m
73	C	Swamp Rose	Rosa palustris	Deciduous	M,P,C	10'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, ponds & swam birds
74	A	Alleghany Blackberry	Rubus s. Eubatus allegheniensis	Deciduous	M,P	5'	FS	Moist, Dry	10'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woodlands bor bird food.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
75	A	Purple Flowering Raspberry	Rubus odoratus	Deciduous	M	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers slopes, streambanks, thorns. Butterflies
76	B	Prairie Willow	Salix humilis	Deciduous	M,P	6'	FS	Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, marsh
77	B	Silky Willow	Salix sericea	Deciduous	M,P	15'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, woodlands
78	D	Common Elderberry, American Elder, Elderberry, Common Elder	Sambucus canadensis	Deciduous	M,P,C	10'	FS	Wet, Moist	12'x10' -6"	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, finds sites, in open habitats, flowers, Aug-Oct, edible to humans and species birds.
79	D	Meadowsweet & Narrow Leaved Meadowsweet	Spiraea tomentosa & Spiraea alba	Deciduous	M,P,C	10'	FS,P	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streambanks, low

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
80	C	Virginia Stewartia, Silky Camelia	Stewartia malacodendron	Deciduous	P,C	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streambanks, l
81	C	Mountain Stewartia	Stewartia ovata	Deciduous	M,P	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streambanks, l
82	A	American Snowbell	Styrax americana	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods, mixed f
83	A	Bigleaf Snowbell	Styrax grandifolia	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods, mixed f
84	A	Sparkleberry	Vaccinium arboreum	Evergreen	P,C	8'	FS,P	Moist, Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p upland, forest u eaten by mamr many birds.
85	A	Black Highbush Blueberry	Vaccinium atrococcum	Evergreen	P,C	8'	FS,P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p forest understo humans. Fruit e

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
86	B	Highbush Blueberry	Vaccinium corymbosum (V.virgata, formosa)	Evergreen	M,P,C	8'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, pocosins, pine and clearings. I by mammals, reptiles and birds
87	A	Creeping Blueberry	Vaccinium crassifolium	Evergreen	P,C	5'	FS	Moist, Dry	2'x1'	Seeds, seedlings, container 1 to 5 gal.	Groundcover; forms dense mats in moist soils, pocosins, understory, and stream banks. Eaten by reptiles, insects and birds. Edible to humans.
88	C	Elliott Blueberry, Mayberry	Vaccinium elliotii	Evergreen	M,P,C	8'	P,Shady	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, streams and swamps. Eaten by mammals, reptiles and birds.
89	A	Huckleberry, Southern Gooseberry	Vaccinium stamineum	Evergreen	M,P,C	8'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, forest understory. Eaten by mammals, reptiles and birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
90	A	Lowbush Blueberry	Vaccinium tenellum	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
91	A	Lowbush Blueberry	Vaccinium vacillans	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
92	B	Maple Leaf Viburnum	Viburnum acerifolium	Deciduous	M,P	6'	FS	Moist	8'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, found in valleys, slopes. Prolific berries
93	B	Southern Arrowwood Viburnum	Viburnum dentatum	Deciduous	M,P,C	6'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, grows in swamps, forms many species of birds
94	B	Possumhaw Viburnum	Viburnum nudum	Deciduous	M,P,C	6'	FS	Wet, Moist	16x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, forms thickets. Many species of birds

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
95	B	Nannyberry	Viburnum lentago	Deciduous	M,P,C	6'	FS	Wet, Moist	20'x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no flowers, Late summer, edible to humans, species of birds
96	B	Blackhaw Viburnum	Viburnum prunifolium	Deciduous	M,P,C	6'	FS	Moist	25'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no slopes, in thick white flowers, fruit to humans.
97	B	Downy Arrowwood	Viburnum rafinesquianum	Deciduous	P	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no and edges of forest, species of birds
98	B	Rusty Blackhaw	Viburnum rufidulum	Deciduous	P,C	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no of forest, forming many species of
99	D	Yellowroot	Xanthorhiza simplicissima	Deciduous	M,P,C	4'	P,Shade	Wet, Moist	3'x3'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, w streambanks.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
100	References:										
101	Burns, Russell M., and Barbara H. Honkala, tech. coords. 1990. Silvics of North America: 1. Conifers; 2. Hardwoods. Agriculture Handbook 654. B.S. Department of Agriculture (Supersedes Agriculture Handbook 271, Silvics of Forest Trees of the United States, 1965)										
102	Cherri Smith, Resource Management Specialist. 1998. Planting Guidelines: Choosing the Appropriate Trees, Shrubs, Herbs, and Seeds to Plant in our Parks. Department of Environment and Natural Resources, Division of Parks and Recreation, P.O. Box 27687, Raleigh, NC 27699-1615										
103	Radford, Albert E., Ahles, Harry E. and C. Richie Bell. 1968. Manual of the Vascular Flora of the Carolinas. The University of North Carolina Press, Chapel Hill, NC										
104	James H. Miller, Karl V. Miller. 1999. Forest Plants of the Southeast and Their Wildlife Uses. Southern Weed Science Society. Craftmaster Printers, Inc., Auburn, AL.										
105	Chris Moreman, NC State University. Barnes, Thomas. 1999. Gardening for the birds. The University Press of Kentucky. Lexington,										
106											

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
7	D	*Common Alder, Hazel or Tag Alder	Alnus serrulata	Deciduous	M,P,C	5'	FS	Wet, Moist	20' -4"	Seeds, seedlings, containers 3 to 15 gal. (Cuttings are successful).	Forms thickets, bottomlands, floodplains
8	A	Downy Serviceberry, June Berry	Amelanchier arborea	Deciduous	M,P,C	10'	FS,P	Moist, Dry	25' x 6"	Seeds, seedlings, container 1 gal.	Ornamental, favorite for birds, borders stream. Can be found in wet areas. Flowers, fruit in late summer.
9	A	Hercules Club, Devil's Walking Stick, angelica Tree, Prickly Ash, Toothache Tree	Aralia spinosa	Deciduous	M,P,C	5'	P,Shade	Moist, Wet	15'x10'	Seeds, seedlings, container 1 gal.	Perennial; Ornamental; burgundy, prefers wet areas, thickets, stream banks. Flowers-cream to black. Bird, mammal food.
10	B	Red Chokeberry	Aronia arbutifolia	Deciduous	M,P,C	3'	FS,P	Wet, Moist	5'x4'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, favorite for birds, borders stream. Tolerant of marginal soils. Flowers, Sept-October. Fruit eaten by birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
11	B	Black Chokeberry	Aronia melanocarpa	Deciduous	M,P,C	5'	FS,P	Wet, Moist	6'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Ornamental, fast growing, borders stream. Tolerant of many soils. Flowers, Sept-October. Fruits eaten by birds.
12	A	Dwarf Pawpaw	Asimina parviflora (8 species in SE)	Deciduous	P,C	5'	FS,P	Dry, Moist	6' x4'	Seeds, seedlings, container 1 gal.	Occurs on moist soil. Habitat, from coastal plain to mountains. Apr.-May-Flowers. Sept.-Fruits/seed pods eaten by butterflies.
13	A	*Silverling, Eastern Baccharis	Baccharis halimifolia	Both	P,C	6'	FS	Moist ,Dry	16'x12'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, spreading. Male and female plants. Borders stream. Shore hammock. White/silvery. O

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
14	A	American Beautyberry, French mulberry, Beautybush	Callicarpa americana	Deciduous	P,C	3'	FS, P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, borders stream margins, right-of-way. Flowers-pinkish purple or white. Attracts mammals.
15	A	Sweet-Shrub	Calycanthus floridus	Deciduous	M,P	6'	FS,P	Dry, Moist	8'x6'	Seeds, seedlings, container 1 gal.	Ornamental and forms colonies, common in wet sites, bottomland. Borders stream. June-Flowers-red. Apr.Seeds. Eat.
16	A	*Allegheny Chinkapin	Castanea pumila	Deciduous	M,P,C	10'	FS,P	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, borders stream.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
17	A	New Jersey Tea	Ceanothus americanus 4 species in SE	Deciduous	M,P,C	5'	FS	Moist, Dry	4'x3'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, not growing, prefer margins, well drained roadsides & slopes. White. June-September. Eaten by mammals. & birds.
18	D	*Buttonbush	Cephalanthus occidentalis	Deciduous	M,P,C	4'	FS,P	Wet, Moist	20'x12'	Seeds, seedlings, container 1 gal.	Ornamental, fast growing, bordering stream of white flowers. Fruit/seeds-butternut ducks, songbirds. Leaves poisonous.
19	B	*Sweet Pepperbush, White Alder, Mountain Pepperbush, Cinnamon Clethra	Clethra acuminata	Deciduous	M,P	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border hardwood forest. Increased by drought. White/fragrant. spring. Eaten by insects.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
20	B	*Sweet Pepperbush, White Alder, Summersweet	Clethra alnifolia	Deciduous	P,C	10'	FS	Moist	20'x12'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for moist soils border savannahs, flat bogs. Intolerant of drainage and fire. Sept.-Feb.-Fruit for mammals, bees
21	A	Sweet Fern	Comptonia peregrina	Both	M,P	10'	FS	Moist, Dry	6'x6'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned
22	A	Wax Myrtle	Comptonia cerifera	Evergreen	P,C	10'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for woods, abandoned. High value winter
23	B	Silky Dogwood, Bush Dogwood	Cornus amomum	Deciduous	M,P,C	10'	FS,P	Wet, Moist	10'x 8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, for streams, swamps

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
24	C	Swamp Dogwood	Cornus stricta	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, prefers streams, swamps
25	A	*American Hazel, Hazelnut	Corylus americana	Deciduous	M,P,C	10'	FS	Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans
26	A	*Beaked Hazelnut	Corylus cornuta	Deciduous	M,P	10'	FS	Dry, Moist	15' x10'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, for slightly acidic soils, dry sites border forests, pasture male catkins- yellow Eaten by humans

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
27	A	*Summer Haw, Yellow Hawthorn	Crateagus flava (56 species in SE)	Deciduous	P,C	20'	FS	Dry, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for hedges, strong root system, streambanks, right-of-ways, etc. Oct.-Red Pomegranate songbirds.
28	A	*Littlehip Hawthorn, red Haw, Sugar Haw	Crateagus spathulata (56 species in SE)	Deciduous	M,P,C	20'	FS	Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental-crocodon colonies/thicket system, prefers bottomlands, m Oct.-Dec.-Red birds, & songbirds
29	A	*Dwarf Hawthorn, One Flowered Hawthorn	Crateagus uniflora (56 species in SE)	Deciduous	P,C	20'	FS	Dry	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for hedges, strong root system, forests & margins May-Flowers-wild mammals, garr

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
30	A	*Parsley Hawthorn	Crateagus marshallii (56 species in SE)	Deciduous	M,P,C	20'	FS	Wet, Moist	T,S -1-3'	Seeds, seedlings, containers 3 to 15 gal.	Ornamental, for thorns, strong root sites, streambanks Apr.-May-Flowers Eaten by mammals
31	C	*White Titi, Black titi, Leatherwood, Swamp Cyrilla, He-huckberry	Cyrilla racemiflora	Both	C	20'	FS	Wet, Moist	T, S-1-3	Seeds, seedlings, containers 3 to 15 gal.	Fast growing, for sites, stream margins flatwoods depressed stands. Deep red fragrant, Sept.-butterfly nectar
32	A	Bush Honeysuckle	Diervilla sessilifolia	Deciduous	M	5'	FS	Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Fast growing, p

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
33	B	Hearts A'Bustin, Strawberry Bush, Burning Bush, Bursting-heart	Euonymus americanus	Both	M,P,C	5'	FS,P	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, fast growing, including bottomland & mixed forests. Green. Sept.-Dec. deer, mammals. Shade but most
34	A	*Carolina Buckthorn, Indian Cherry, Pole-Cat-Tree	Frangula caroliniana	Deciduous	P,C	5'	FS,P	Dry, Moist	8'x4'	Seeds, seedlings, container 1 to 3 gal.	Occurs on moist habitat, new for open hardwood. Flowers-green. Berry/seeds. E
35	A	*Wintergreen	Gaultheria procumbens	Evergreen	M,P,C	5'	P,Shade	Dry, Moist	5x5	Seeds, seedlings, container 1 to 3 gal.	Fast growing, p

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
36	A	Black Huckleberry	Gaylussacia baccata (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group to moist soils in woodlands. Mayberry eaten by butterflies.
37	A	Dwarf Huckleberry, Gopherberry	Gaylussacia dumosa(6 species in SE)	Both	M,P,C	2'	FS	Moist, Dry	2'x2'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group sandy soils of p elevation pine f Flowers-white. mammals, rept
38	A	Blue Huckleberry, Dandleberry	Gaylussacia frondosa (6 species in SE)	Deciduous	P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Group and well-drained bays, shrub bays Flowers-white. mammals, rept

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
39	A	Huckleberry, Buckberry	Gaylussacia ursina (6 species in SE)	Deciduous	M,P,C	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 3 gal.	Excellent Ground cover to moist soils in woodlands. May Berry eaten by butterflies.
40	A	*Witch Hazel	Hamamelis virginiana	Deciduous	M,P,C	10'	FS,P	Moist	20'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, caespitose sites, open to sunlight plant in mixed forest margins & borders yellow. Oct.-Nov. & pollinated by
41	D	Swamp Mallow, Wild Cotton	Hibiscus moscheutos	Deciduous	P,C	8'	FS	Wet, Moist	6'x4'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streams, marsh June-Oct.-Flows Aug-Nov. Bird

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
42	B	Wild Hydrangea, Climbing Hydrangea, Sevenbark, Mountain Hydrangea	Hydrangea arborescens	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found mostly in rocky streams or mixed a vine. May-July Eaten by mammals & butterflies.
43	B	Oak-leaf Hydrangea	Hydrangea quercifolia	Deciduous	M,P	5'	FS,P,Shade	Moist	6'x5'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in shady habitats, forests, borders July-Flowers-white mammals, garden butterflies
44	A	Sweet Gallberry, Gay-ball Bush, Shining Inkberry	Ilex coriacea (13 species in SE)	Evergreen	P,C	5'	FS,P	Wet, Moist, Dry	18'x15'	Seeds, seedlings, container 1 to 3 gal.	Ornamental, found in understory shrub soils bordering woods, & swamps Feb.-Fruit-black mammals & insects

D. Ann Gill

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
45	A	*Possumhaw	Ilex decidua (13 species in SE)	Deciduous	P,C	8'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrub soils bordering forests, low woodlands. Flowers-white. Eaten by songbirds, garr.
46	A	Inkberry, Bitter Gallberry, Evergreen Winterberry	Ilex glabra (13 species in SE)	Evergreen	C	10'	P, Shade	Dry, Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrub prefers acidic soils woodlands, poor soils. June-July. Flowers-white. Eaten by songbirds, g.
47	A	*American Holly	Ilex opaca (13 species in SE)	Evergreen	P,C	20'	FS,P,Shade	Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for mixed upland & lowland soils. May-June. Fruit. Eaten by songbirds, g.

D. Insects/bees.

700 N. Tryon St.  
Charlotte, NC 28202  
704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
48	A	Winterberry	Ilex verticillata (13 species in SE)	Deciduous	M,P,C	8'	FS,P	Wet, Moist	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for understory shrubs, soils bordering June-Flowers-v songbirds, garr
49	A	Yaupon Holly	Ilex vomitoria (13 species in SE)	Evergreen	P,C	8'	FS	Moist, Dry	15'x10'	Seedlings, container 3 to 15 gal.	Ornamental, for understory shrubs, prefers acidic soils, open for May-June-Flow Eaten by songbirds, insects/bees.
50	D	Virginia Willow, Sweetspire, Tassel-white, Washington Plume	Itea virginica	Deciduous	P,C	8'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for edge of stream, low woodlands, white. July-Feb butterflies & ins

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
51	A	Mountain Laurel, Mountain Ivy, Calico Bush, Spoonwort	Kalmia latifolia	Evergreen	M,P	5'	FS,P, Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sepal white/pink. Sepal & birds.
52	A	Sheep Laurel, Lamb Kill, Wicky	Kalmia augustifolia var. caroliniana	Evergreen	P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, found in dense thickets. Infrequent along Lower Pd & Coastal plain. Sepal white/pink. Sepal & birds.
53	C	Coastal Dog-Hobble	Leucothoe axillaris	Evergreen	C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed.
54	C	Dog-Hobble	Leucothoe editorum	Evergreen	M,P	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, found in wet to moist woodlands, mixed.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
55	C	Fetterbush, Sweetbells	Leucothoe racemosa	Evergreen	P,C	6'	P,Shade	Wet, Moist	6'x4'	Seedlings, container 3 to 15 gal.	Ornamental, for wet to moist so woodlands, bog
56	B	Spicebush	Lindera benzoin	Deciduous	M,P,C	5'	P,Shade	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream aromatic. Eaten by insects.
57	B	Male-Berry, Male-Blueberry	Lyonia ligustrina (5 species in SE)	Deciduous	P,C	10'	FS, P	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
58	C	Fetterbush	Lyonia lucida (5 species in SE)	Deciduous	P,C	5'	FS,P	Wet, Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Ornamental, for bordering stream mammals, birds
59	A	*Southern Wax Myrtle, Bayberry, Candleberry	Myrica cerifera 5 species in SE	Evergreen	P,C	10'	FS,P	Dry, Moist	25'x20'	Container, 1 to 3 gal.	Non-legume native hedge, spreads roadsides, ditch used to repel insects, gamebirds, songbirds.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
60	A	Ninebark	Physocarpus opulifolius	Deciduous	M,P,C	10'	FS,P	Moist, Wet	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Occurs along & moist cliffs. A Seeds. Eaten by
61	A	Pasture Rose, Carolina Rose	Rosa carolina	Deciduous	M,P,C	5'	FS	Moist, Dry	3'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, open woodland
62	A	Dwarf Azalea	Rhododendron atlanticum	Deciduous	P,C	6'	FS	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, woods and sav Bird and butterfly
63	B	Flame Azalea	Rhododendron calendulaceum	Deciduous	M,P	8'	FS,P	Moist, Dry	12'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, streams, low w and butterfly fo
64	A	Catawba Rhododendron	Rhododendron catawbiense	Deciduous	M,P	10'	FS	Moist, Dry	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, slopes, ridges & Hummingbird a
65	B	*Rosebay Rhododendron, Great Laurel	Rhododendron maximum	Deciduous	M,P	10'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, and hardwoods D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
66	A	Pinxterbloom Azalea	Rhododendron nudiflorum var. canescens	Deciduous	M,P	6'	P, Shade	Moist, Dry	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods and thic Bird and butter
67	C	Swamp Azalea	Rhododendron viscosum (R. serrulata)	Deciduous	M,P,C	6'	P, Shade	Wet, Moist	6'x3'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p swamps. Bird a
68	A	Fragrant Sumac	Rhus aromatica	Deciduous	P,C	5'	FS	Dry	1' -	Seeds, seedlings, containers	Groundcover, f right of ways & Feb.-May-flowe seeds. Seeds e birds.
69	A	*Shining Sumac, Winged Sumac, Dwarf Sumac	Rhus copallina	Deciduous	M,P,C	5'	FS	Moist, Dry	25' -6"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
70	A	*Smooth Sumac, Scarlet Sumac, Common Sumac	Rhus glabra	Deciduous	M,P,C	5'	FS	Moist, Dry	20' -4"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr
71	A	*Staghorn Sumac, Velvet Sumac	Rhus hirta (Rhus typhina)	Deciduous	M,P	5'	FS	Moist, Dry	30' -8"	Seeds, seedlings, containers	Fast growing, e ways & forest n flowers-greenis eaten by mamr
72	A	Pasture Rose, Wild Rose	Rosa carolina	Deciduous	M,P,C	5'	FS,P	Dry, Moist	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, e woodland bord mammals & m
73	C	Swamp Rose	Rosa palustris	Deciduous	M,P,C	10'	FS,P, Shade	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, ponds & swam birds
74	A	Alleghany Blackberry	Rubus s. Eubatus allegheniensis	Deciduous	M,P	5'	FS	Moist, Dry	10'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woodlands bor bird food.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
75	A	Purple Flowering Raspberry	Rubus odoratus	Deciduous	M	5'	FS	Moist, Dry	5'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers slopes, streambanks, thorns. Butterflies
76	B	Prairie Willow	Salix humilis	Deciduous	M,P	6'	FS	Moist	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, marsh
77	B	Silky Willow	Salix sericea	Deciduous	M,P	15'	FS	Moist	15'x10'	Seeds, seedlings, container 1 to 5 gal.	Fast Growing, prefers streams, woodlands
78	D	Common Elderberry, American Elder, Elderberry, Common Elder	Sambucus canadensis	Deciduous	M,P,C	10'	FS	Wet, Moist	12'x10' -6"	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Fast growing, finds sites, in open habitats, flowers, Aug-Oct, edible to humans and species birds.
79	D	Meadowsweet & Narrow Leaved Meadowsweet	Spiraea tomentosa & Spiraea alba	Deciduous	M,P,C	10'	FS,P	Wet, Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, prefers streambanks, low

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
80	C	Virginia Stewartia, Silky Camelia	Stewartia malacodendron	Deciduous	P,C	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streambanks, l
81	C	Mountain Stewartia	Stewartia ovata	Deciduous	M,P	10'	FS,P,Shade	Moist	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p streambanks, l
82	A	American Snowbell	Styrax americana	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods, mixed f
83	A	Bigleaf Snowbell	Styrax grandifolia	Deciduous	P,C	8'	FS,P	Moist, Dry	6'x5'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p woods, mixed f
84	A	Sparkleberry	Vaccinium arboreum	Evergreen	P,C	8'	FS,P	Moist, Dry	25'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p upland, forest u eaten by mamr many birds.
85	A	Black Highbush Blueberry	Vaccinium atrococcum	Evergreen	P,C	8'	FS,P	Moist, Dry	8'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, p forest understo humans. Fruit e

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
86	B	Highbush Blueberry	Vaccinium corymbosum (V.virgata, formosa)	Evergreen	M,P,C	8'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, pocosins, pine and clearings. I by mammals, reptiles and birds
87	A	Creeping Blueberry	Vaccinium crassifolium	Evergreen	P,C	5'	FS	Moist, Dry	2'x1'	Seeds, seedlings, container 1 to 5 gal.	Groundcover; forms dense mats in moist soils, pocosins, understory, and stream banks. Eaten by reptiles, insects and birds. Edible to humans.
88	C	Elliott Blueberry, Mayberry	Vaccinium elliotii	Evergreen	M,P,C	8'	P,Shady	Wet, Moist	10'x8'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, streams and swamps. Eaten by mammals, reptiles and birds.
89	A	Huckleberry, Southern Gooseberry	Vaccinium stamineum	Evergreen	M,P,C	8'	FS	Moist, Dry	20'x15'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, produces berries, tolerates shade, forest understory. Eaten by mammals, reptiles and birds.

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
90	A	Lowbush Blueberry	Vaccinium tenellum	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
91	A	Lowbush Blueberry	Vaccinium vacillans	Evergreen	P,C	3'	FS	Dry	1'x1'	Seeds, seedlings, container 1 to 5 gal.	Fast growing, provides understory, and reptiles, insects
92	B	Maple Leaf Viburnum	Viburnum acerifolium	Deciduous	M,P	6'	FS	Moist	8'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, found in valleys, slopes. Prolific berries
93	B	Southern Arrowwood Viburnum	Viburnum dentatum	Deciduous	M,P,C	6'	FS	Moist, Dry	10'x6'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, grows in swamps, forms many species of birds
94	B	Possumhaw Viburnum	Viburnum nudum	Deciduous	M,P,C	6'	FS	Wet, Moist	16x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, forms thickets. Many species of birds

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
95	B	Nannyberry	Viburnum lentago	Deciduous	M,P,C	6'	FS	Wet, Moist	20'x10'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no flowers, Late summer edible to humans, species of birds
96	B	Blackhaw Viburnum	Viburnum prunifolium	Deciduous	M,P,C	6'	FS	Moist	25'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no slopes, in thick white flowers, food to humans.
97	B	Downy Arrowwood	Viburnum rafinesquianum	Deciduous	P	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no and edges of forest species of birds
98	B	Rusty Blackhaw	Viburnum rufidulum	Deciduous	P,C	6'	FS	Moist	20'x16'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, no of forest, forming many species of
99	D	Yellowroot	Xanthorhiza simplicissima	Deciduous	M,P,C	4'	P,Shade	Wet, Moist	3'x3'	Seeds, seedlings, container 1 gal. (Cuttings are successful)	Deep rooted, w streambanks.

D. Ann Gill

700 N. Tryon St.

Charlotte, NC 28202

704-336-5359

gillda@co.mecklenburg.nc.us

SHRUBS

	A	B	C	D	E	F	G	H	I	J	
1	RIPARIAN ZONE	Common Name	Botanical Name	Deciduous	Mountain	Rate or	Full Sun,	Soil Moisture	Max.	Seed production	Benefits, Habitat
2	A - UPLAND BUFFER	*Some shrubs can be considered small trees		Evergreen	Piedmont	Spacing	Partial,	Condition:	Height,		All shrubs have berries
3	B - UPPER SLOPE				Coastal	Min.	Shade		Width		All shrubs provide wildlife.
4	C - LOWER SLOPE										
5	D - WATER'S EDGE										
6											
100	References:										
101	Burns, Russell M., and Barbara H. Honkala, tech. coords. 1990. Silvics of North America: 1. Conifers; 2. Hardwoods. Agriculture Handbook 654. B.S. Department of Agriculture (Supersedes Agriculture Handbook 271, Silvics of Forest Trees of the United States, 1965)										
102	Cherri Smith, Resource Management Specialist. 1998. Planting Guidelines: Choosing the Appropriate Trees, Shrubs, Herbs, and Seeds to Plant in our Parks. Department of Environment and Natural Resources, Division of Parks and Recreation, P.O. Box 27687, Raleigh, NC 27699-1615										
103	Radford, Albert E., Ahles, Harry E. and C. Richie Bell. 1968. Manual of the Vascular Flora of the Carolinas. The University of North Carolina Press, Chapel Hill, NC										
104	James H. Miller, Karl V. Miller. 1999. Forest Plants of the Southeast and Their Wildlife Uses. Southern Weed Science Society. Craftmaster Printers, Inc., Auburn, AL.										
105	Chris Moreman, NC State University. Barnes, Thomas. 1999. Gardening for the birds. The University Press of Kentucky. Lexington,										
106											