Urban Forest Master Plan (UFMP) Community Meeting #2 May 22, 2024 6:00 PM – 8:00 PM Carpenter Hall



- 1. Welcome and Introductions
 - a. Future Educational Topics Exercise
 - b. UFMP Overview, Status, Documents
 - c. Notice of upcoming Community Wildfire and Prevention Plan meetings
- 2. Scenic Road Trees (presented by Friends of Carmel Forest, Peter Quintanilla)
- 3. UFMP Community Survey Highlights (presented by Forest and Beach Commissioner Kelly Brezoczky)
- 4. Tree Keeper Demonstration and City Tree Inventory
- 5. Forestry Resources Past, Present, and Future
- 6. Breakout Session:
 - a. Current Tree Species Variety
 - b. Replanting
 - c. Upper and Lower Canopy designations
 - d. DRAFT Tree Species List
- 7. Conclusion Next Steps
 - a. Q&A Feedback
 - b. Future Topics of Public Education and Outreach

Community Wildfire Protection Plan

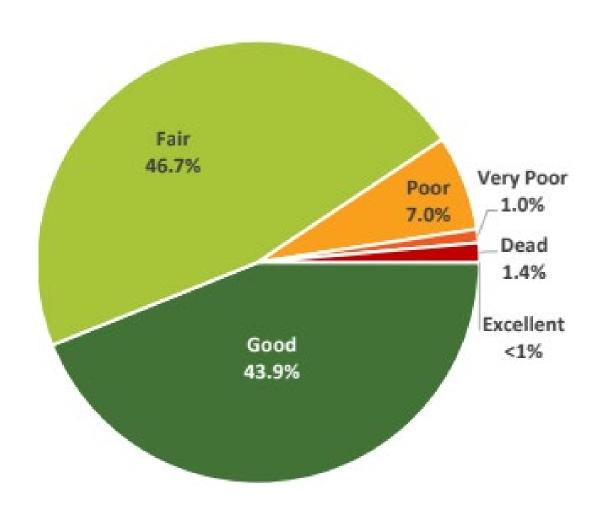
For the cities of Carmel-by-the-Sea, Monterey, and Pacific Grove

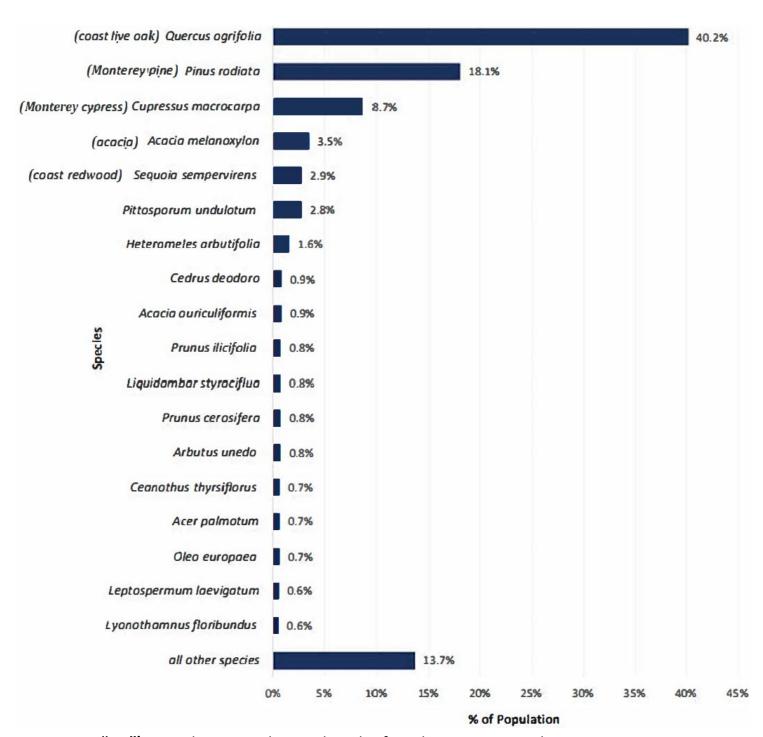


Visit ci.carmel.ca.us/UFMP for a link to the Community Wildfire Protection Plan (CWPP)



Tree	Conditi	ons in	Publ	ic Ar	eas		
	Dead	TOTALS					
Public Rights of Way (PROW)	119	4,827	4,886	726	127	186	10871
Medians	17	44	15	2	3	5	86
Parks (ESTIMATE)							~3000
TOTALS	136	4871	4901	728	130	191	

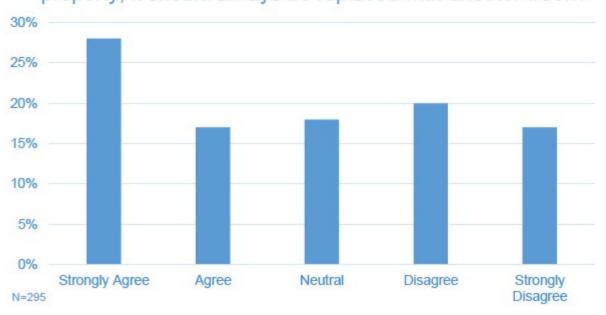




BREAKOUT "A1") How do we mesh together the fact that we want to honor Monterey pines, coast live oaks, and Monterey cypress as our primary native species, along with the fact that 2) urbanized forests with a more balanced variety of species are more resilient to drought / pests and disease / storm events / other stressors which may otherwise result in the loss of much (and in some cases all) of any one species?

BREAKOUT "A2") Using the graph above, what percent (or range of percentages) do you feel would be reasonable in order to maintain the "big 3" as our primary native tree species (pine, oak, cypress), while also ensuring a healthy variety of species?

If a tree is removed in Carmel, whether it is on public or private property, it should always be replaced with another tree...



BREAKOUT "B1") [Reference the above community survey question] In what circumstances do you think a tree should (or should not) be replanted on public property?

BREAKOUT "B2")

In what circumstances do you think a tree should (or should not) be replanted on private property?



BREAKOUT "C1") [Reference the above] What quantity of upper canopy and what quantity of lower canopy do you think is appropriate for a 4,000 square foot lot, and why?

BREAKOUT "C2") Do you think Upper Canopy and Lower Canopy designations are still an appropriate way for us all to categorize our trees?

Lower Canopy Tree List for 2024 UFMP (Draft)

						L	JW	ei i	Carroj	IJΥ	1166	FISCIO	r 2024 OFIVIP (Drait)		6
	Species	Common Name	Climate Ready	Included in 2001 Recommended Tree Species List	Native (N), Near Native (NN), Adapted (A)	Desciduous (D), Evergreen (E), Semi-deciduous (SD)	Max Height	Max Canopy Spread	Hardscape Damage Potential High (H), Moderate (M), Low (L)	Utility Friendly	Salt Spray Tolerance High (H), Moderate (M), Low (L)	Sun Exposure	Pests and Disease Concerns	Disease Resistance	Notes
1	Acer macrophyllum	bigleaf maple		х	N	D	80	50	Н	No	M	Full Shade/Full Sun	Sudden Oak Death, Root Rot, Armillaria, Annosus Root Disease and Invasive Shot Hole Borer, Beetle Borers, California Flathead Borer, Caterpillars		
2	Acer palmatum	Japanese maple			А	D	40	35	L	No	L	Partial Sun to Full Sun	Verticillium, Root Rot	Verticillium, Root Rot	
3	Acer rubrum	red maple			Α	E	35	35	L	No	Н	Partial to Full	Anthracnose, Phytophthora, Root Rot, Rust and Scales, Thrip	Armillaria	
4	Agonis flexuosa	willow myrtle			А	E	35	30	М	No	M	Partial Sun to Full Sun	Phytophthora, Root Rot		
5		marina strawberry tree		х	А	E	40	30	L	No	н	Full Sun	Anthracnose, Phytophthora, Root Rot, Rust and Scales, Thrips		
6	Arbutus unedo	strawberry tree			А	E	35	35	L	No	Н	Full Shade/ Full Sun	Armillaria		
7	Bauhinia variegata	orchid tree			NN	SD	35	35	L	No	L	Partial Sun to Full Sun			Tree is deer resistant and attracts birds
8	Calodendrum capense	Cape chestnut			Α	SD	40	40	L	No	н	Full Sun			Tree is deer resistant
9	Carpinus	European hornbeam			А	D	40	30	L	No	M	Partial Sun to Full Sun	Armillaria, Root Rot and Scales		Tree is deer resistant and attracts birds
10	Ceratonia siliqua	carob tree	Υ	х	A	E	40	40	н	No	M	Partial Sun to Full Sun	Armillaria, Root Rot		Drought tolerant

11	Cercis canadensis	Eastern redbud		А	D	40	35	L	No	M	Partial Sun to Full Sun	Anthracnose, Crown Rot, Armillaria, Phytophthora and Caterpillars, Scales		
12	Chionanthus retusus	Chinese fringetree		Α	D	30	12	L	No	M	Partial Sun to Full Sun			Tree is deer resistant and attracts birds
13		Washington hawthorn		A	D	40	25	L	No	M	Full Sun	Rot and Aphids, Beetle Borers, Scales Spider Mites	Fair Resistance to Fire Blight, Verticillium	Tree is deer resistant and attracts bees, birds
14	Eriobotrya deflexa	bronze loquat	х	A	E	30	30	L	No	M	Partial Sun to Full Sun	Fire Blight, Armillaria, Root Rot		Requires more frequent pruning
15	Eriobotrya japonica	loquat	х	A	E	45	60	M	No	н	Partial Sun to Full Sun	Armillaria, Phytophthora, Root Rot and Invasive Shot Hole Borer, Beetle Borers, Thrips	Texas Root Rot, Verticillium	Drought and smog tolerant
16		silver dollar gum		A	E	25	10	L	Ye s	M	Full Sun	Brown Rot, Chlorosis, Crown Rot, Armillaria and Aphids, Mealy Bugs, Scales, Spider Mites	Verticillium	
17	Fagus sylvatica	European beech		Α	D	80	50	M	No	M	Full Sun	Canker, Armillaria, Phytophthora, Root Rot and Aphids, Spider Mites	Verticillium	Tree is deer resistant and attracts birds, squirrels
18	Fraxinus dipetala	California ash		NN	D	25	20	L	Ye s	М	Partial Sun to Full Sun	Root Rot, Sooty Mold, Verticillium and Scales		Tree is deer resistant and attracts birds
19		Australian willow myrtle		A	E	45	20	۔	No	M	Partial Sun to Full Sun		Armillaria	water-filled leaves that are fire resistant, Tree is deer resistant and attracts bees
20		Chinese flame tree		A	D	40	30	L	No	М	Partial Sun to Full Sun			Tree is deer resistant
21	Lagerstroemia indica	crape myrtle		A	E	40	40	L	No	M	Partial Sun to Full Sun	Sooty Mold and Aphids, Scales		Pg 7

22	Magnolia grandiflora	Southern magnolia			А	E	40	30	L	No	н	Partial Sun to Full Sun			∞ ∞
23	grandiflora	little gem southern magnolia			A	D	20	10	L	Ye s	М	Partial Sun to Full Sun	Armillaria, Root Rot, Verticillium and Invasive Shot Hole Borer, Aphids, Scales, Spider Mites		Tree is deer resistant and attracts birds
24	Melaleuca linariifolia	flax-leaved paperbark			A	SD	35	20	М	No	M		Armillaria, Fusarium, Root Rot and Invasive Shot Hole Borer, Caterpillars		
25	Olea europaea	olive tree	Y	х	A	E	30	30	M	No	М	Partial Sun to Full Sun	Anthracnose, Armillaria, Phytophthora, Root Rot and Scales, Psyllid	Texas Root Rot	
26	Pinus pinea	Italian stone pine		х	A	E	80	60	M	No	н	Partial Sun to Full Sun	Armillaria, Phytophthora, Root Rot, Pitch Canker and Aphids	Verticillium	
27	Pistacia chinensis	Chinese pistache	Y		A	E	25	25	L	No	М	Partial Sun to Full Sun	Chlorosis		
28	Platanus racemosa	California sycamore		х	N	D	80	50	М	No	М	Partial Sun to Full Sun	Anthracnose, Armillaria, Phytophthora, Mistletoe and Invasive Shot Hole Borer, Leaf Miner, Scales, Spider Mites	Verticillium	
29	Platanus x hybrida	London planetree		х	А	D	80	70	Н	No	М	Partial Sun to Full Sun	Anthracnose, Powdery Mildew and Invasive Shot Hole Borer, Scales, Spider Mites	Verticillium	
30	Podocarpus gracilior	fern pine		х	Α	E	70	40	L	No	M	Partial Sun to Full Sun			
31		cork oak			Α	E	30	25	L	No	М	Partial Sun to Full Sun	Chlorosis, Phytophthora, Root Rot		
32	Robinia pseudoacacia	black locust		х	NN	D	70	35	н	No	M	Partial Sun to Full Sun	Fusarium, Armillaria, Phytophthora, Root Rot and Aphids, Beetle Borers		
33	Stenocarpus sinuatus	firewheel tree			Α	E	30	15	L	No	М	Partial Sun to Full Sun			Tree is deer resistant
34	Tristania laurina 'Elegant	Elegant water gum			А	E	35	25	L	No	н	Partial Sun to Full Sun			Tree is deer resistant
35	Tristaniopsis laurina	water gum			А	D	25	25	L	Ye s	М	Partial Sun to Full Sun	Armillaria and Aphids, Scales, Spider Mites		

Upper Canopy Tree List for 2024 UFMP (Draft)

	Species	Common Names	Climate Ready	Included in 2001 Recommended Tree Species List	Native (N), Near Native (NN), Adapted (A)	Desciduous (D), Evergreen (E), Semi-deciduous (SD)	Max Height	Max Canopy Spread	Hardscape Damage Potential High (H), Moderate (M), Low (L)	Utility Friendly	Salt Spray Tolerance High (H), Moderate (M), Low (L)	Sun Exposure	Pests and Disease Concerns	Disease Resistance	Notes
1	Abies bracteata	Santa Lucia fir			N	E	80	20	М	No	M	Partial to Full			Tree is deer resistant and attracts birds, squirrels
2	Aesculus x carnea 'Briotii'	red horsechestnut			А	D	50	50	L	No	М	Full Sun	Chlorosis		Tree is deer resistant and attracts bees, squirrels, Poisonous fruit
3	Arbutus menziesii	Pacific madrone			NN	E	70	50	L	No	М	I FIIII Siin	Needle Cast, Sudden Oak Death, Anthracnose, Phytophthora and Caterpillars, Scales, Thrip		
4	Arbutus unedo	strawberry tree			A	E	80	60	Н	No	М	Partial to	Armillaria, Root Rot, Verticillium and Invasive Shot Hole Borer, Aphids, Scales, Spider Mites		
5	iacaupmontii	white-barked Himalayan birch			A	D	60	30	M	No	М	Full Shade to Full Sun	Armillaria and Aphids, Beetle Borers	Verticillium	
6	Brachychiton acerifolius	Illawarra flame tree			A	SD	60	40	М	No	L	Full Sun			Tree is deer resistant
7	Callistemon citrinus	lemon bottlebrush			A	E	60	30	M	No	М	Partial to Full	Armillaria, Phytophthora, Root Rot, Sooty Mold and Beetle Borers	Verticillium	

Г	П												Mistletoe, Phytophthora, Root Rot,		10
	8	Calocedrus	incense cedar		NN	E	90	15	N.4	No	N.A	Partial to	Red Ring Rot and Beetle Borers,		
	°	decurrens	incense ceaar	X	ININ	-	90	13	IVI	NO	IVI	Full	Juniper Scale, Western Cedar Bark		
													Beetle		
		Carpinus													Deer resistant
		hetulus	European		Α	D	50	40	L	No	М	Partial to	Armillaria, Root Rot and Scales	Verticillium	and attracts
		'Fastigiata'	hornbeam									Full			birds, Needs
															little pruning
															Tree is deer
															resistant, Fruits are
															supposedly
,	0	Castanosperm	Moreton Bay		_	E	100	40	N.4	No		Partial to			edible but the
1	0	um australe	chestnut		Α	[100	40	IVI	NO	_	Full			seeds are
															poisonous.
															Wood is valued for
															lumber
		Catalpa	Northern									Partial to	Armillaria, Phytophthora, Root Rot,		
1	7		catalpa		Α	E	50	30	М	No	M	Full	Sooty Mold and Aphids, Leaf Miner		
		•	•										. ,		
1	21	Cedrus	atlas cedar	x	A	E	60	30	м	No	М	Partial to	Armillaria, Phytophthora, Root Rot,	Verticillium	
L		atlantica										Full	Sooty Mold and Beetle Borers		
1	3	Cedrus	Deodar cedar		Α	E	60	40	м	No	М	Partial to	Phytophthora, Root Rot, Sooty Mold	Verticillium	
	_	deodara										Full			
															SL growing,
1	4	Cedrus libani	cedar of		Α	E	100	100	L	No	М	Partial to		Verticillium	Deer resistant
			Lebanon									Full			and attracts squirrels
		Cummonaria										Partial to	Aumillaria Dhutanhthara Baat Bat		344
1	5 I	Cupressus sempervirens	Italian cypress		Α	E	70	70	М	No	М	Full	Armillaria, Phytophthora, Root Rot and Invasive Shot Hole Borer	Verticillium	
	_	Fraxinus										- 4			
1	6	americana	Autumn Purple		A	D	80	50	н	No	М	Partial to	Anthracnose, Sooty Mold and Scales,		Tree is deer
1			ash		[30	30		110		Full	White Fly		resistant
	4	Purple'													
1	7	Ginkao hiloha 🔝	maidenhair		A	E	50	20	н	Ye	М		Phytophthora, Root Rot and Invasive		
			tree							S		Full	Shot Hole Borer, Beetle Borers, Thrip		

18	Gleditsia triacanthos 'Inermis'	thornless honeylocust		А	D	60	40	М	No	L	Partial to Full	Mistletoe, Phytophthora, Root Rot and Invasive Shot Hole Borer, Caterpillars, Insect Galls, Pod Gall Midge	Verticillium	Tree is deer resistant and attracts bees, birds
19	Harpephyllum caffrum	Kaffir plum		A	E	50	40	н	No	Δ	Partial to Full			Tree is deer resistant
20	Cupressus macrocarpa	Monterey cypress	x	NN	E	70	40	М	No	н	Partial to Full	Armillaria, Phytophthora, Root Rot and Beetle Borers		
21	Hymenosporu m flavum	sweetshade		A	E	50	20	٦	No	M	Partial to Full			Tree is deer resistant and attracts bees, birds
22	Juniperus chinensis 'Torulosa'	Hollywood juniper		А	D	70	40	М	No	М	Partial to Full	Armillaria, Phytophthora, Root Rot, Verticillium and Aphids, Beetle Borers, Scales		
23	Leptospermum scoparium	Tea tree		A	D	60	40	М	No	М	Full Shade to Full Sun	Anthracnose, Powdery Mildew, Root Rot, Verticillium and Caterpillars		
24	Liriodendron tulipifera	Tulip tree		A	D	80	40	М	No	М	Partial to Full	Anthracnose, Chlorosis, Fusarium, Armillaria and Aphids, Scales		Tree is deer resistant and attracts birds
25	Lophostemon confertus	Brisbane box		A	E	50	30	М	No	М	Partial to Full	Phytophthora, Root Rot and Scales		Tree is deer resistant
26	Magnolia x soulangeana	saucer magnolia		A	E	70	20	М	No	М	Partial to Full	Gummosis, Phytophthora, Root Rot and Spider Mites		
27	Metasequoia glyptostroboid es	dawn redwood		A	E	90	20	Ν	No	M	Partial to Full		Armillaria	Tree is deer resistant
28	Nyssa sylvatica	black gum		A	D	50	30	L	No	М	Partial to Full	Fusarium, Phytophthora, Root Rot, Rust		Attracts birds
29	Pinus canariensis	Canary Island pine	x	A	E	80	35	М	No	н	Partial to Full	Armillaria, Phytophthora, Root Rot, Sooty Mold and Aphids, Beetle Borers, Spider Mites	Verticillium	
30	Pinus muricata	Bishop pine	x	NN	E	70	40	М	No	Н	Partial to Full	Armillaria, Phytophthora, Root Rot, Rust and Aphids, Beetle Borers	Verticillium	

á	31	Pinus pinaster	maritime pine		Α	E	90	35	М	No	Н	Partial to Full	Armillaria, Phytophthora, Root Rot and Aphids	Verticillium	Tree is deer resistant and attracts birds, squirrels. A vigorous growing pine for coastal areas.
3	32	Pinus radiata	Monterey pine	х	N	E	100	35	М	No	Н	Partial to Full	Armillaria, Leaf Blight, Phytophthora, Root Rot and Aphids, Beetle Borers, California Five Spined Engraver Beetle, IPS	Verticillium	
3	33	Pinus sylvestris	Scots pine		A	E	70	30	M	No	М	Partial to Full	Fusarium, Armillaria, Phytophthora, Root Rot and Aphids	Verticillium	Tree is deer resistant and attracts birds, squirrels
3	34	•	London planetree		A	D	80	40	м	No	М	Partial to Full		Verticillium, Mildew, Anthracnose	Tree is deer resistant and attracts birds
3	35 I	Pyrus communis	European pear		A	D	90	60	Μ	No	М	Full Shade to Full Sun	Armillaria, Anthracnose and Aphids, Beetle Borers	Verticillium and Bronze Birch Borer	
3	36 I	Quercus agrifolia	coast live oak	х	N	E	85	40	м	No	L	Partial to Full	Armillaria, Anthracnose and Aphids, Beetle Borers		
3	37 I	Quercus coccinea	scarlet oak		A	D	70	50	M	No	М	Partial to Full	Armillaria and Caterpillars, Scales	Verticillium	Tree is deer resistant and attracts birds, squirrels
3	ex i	Quercus douglasii	blue oak		N	E	70	50	L	No	M	Partial to Full	Crown Rot, Mistletoe, Armillaria, Brown Rot and Caterpillars, Insect Galls, California Oak Moth, Gall Wasp	Verticillium	Tree is deer resistant and attracts birds, squirrels
3	39	Quercus frainetto 'Forest Green'	Hungarian oak 'Forest Green'		A	D	100	70	М	No	L	Partial to Full	Armillaria, Crown Rot, Mistletoe, Root Rot and Beetle Borers, Caterpillars, Insect Galls, Scales	Verticillium	Attacts birds, squirrels

40	Quercus garryana	Oregon white oak		N	D	90	60	L	No	М	Partial to Full	Crown Rot, Mistletoe, Armillaria, Root Rot and Beetle Borers, Caterpillars, Insect Galls, Scales	Verticillium	Attacts birds, squirrels
4:	Quercus kelloggi	California black oak		N	D	70	50	M	No	L	Partial to Full	Sudden Oak Death, Anthracnose, Armillaria, Brown Rot and Goldspotted Oak Borer, Insect Galls, Carpenterworm, California Oak Moth	Verticillium	Tree is deer resistant and attracts birds, squirrels
42	? Quercus lobata	valley oak		N	D	70	50	М	No	L	Partial to Full	Armillaria, Crown Rot, Mistletoe, Root Rot and Invasive Shot Hole Borer, Beetle Borers, Caterpillars, Insect Galls	Verticillium	Tree is deer resistant and attracts birds, squirrels
43	Quercus macrocarpa	Bur oak		A	D	80	30	M	No	M	Partial to Full	Armillaria and Aphids, Spider Mites	Verticillium	Tree is deer resistant and attracts birds, squirrels
44	Quercus palustris	pin oak		A	D	70	40	L	No	М	Partial to Full	Armillaria and Scales	Verticillium	Armillaria and Scales
45	Quercus robur	English oak		A	D	100	80	M	No	M	Partial to Full	Armillaria, Powdery Mildew and Invasive Shot Hole Borer, Insect Galls	Verticillium	Tree is deer resistant and attracts birds, squirrels
4(Quercus rubra	Northern red oak		A	D	80	70	M	No	M	Partial to Full	Armillaria, Anthracnose, Phytophthora, Root Rot and Aphids, Caterpillars, Insect Galls	Verticillium	Tree is deer resistant and attracts birds, squirrels
42	Quercus shumardii	Shumard oak		A	D	70	40	M	No	M	Partial to Full	Armillaria and Beetle Borers, Beetle Leaves, Caterpillars, Insect Galls	Verticillium	Tree is deer resistant and attracts birds, squirrels
48	Quercus tomentella	Channel Island oak		NN	E	50	40	M	No	IN/I	Partial to Full	Armillaria	Verticillium	Tree is deer resistant and attracts birds, squirrels

49	Quercus virginiana "Skyclimber"	Southern live oak "Skyclimber"		A	E	80	100	М	No	М	Partial to Full	Armillaria, Phytophthora, Root Rot and Insect Galls		Attacts birds, squirrels
50	Rhus lancea	African sumac		А	D	50	30	L	No	М	Full Sun	Armillaria, Brown Rot, Canker, Crown Rot and Aphids, Coddling Moths, Mealy Bugs, Psyllid	Verticillium	
51	Sequoia sempervirens	coast redwood	x	N	E	200	100	L	No	н	Partial to Full	Armillaria, Phytophthora, Cypress Canker, Root Rot and Beetle Borers, Redwood Bark Beetle		
52	Sophora japonica 'Regent'	Japanese pagoda tree		A	D	50	40	L	No	М	Full Sun	Canker, Twig Blight, Powdery Mildew and Potato Leafhopper		Tree is deer resistant
53	Tilia americana 'Redmond'	American linden 'Redmond'		A	D	70	45	L	No	М	Partial to Full	Anthracnose, Leaf Blight, Canker, Leaf Spot and Aphids, Borer, Leaf Miner, Scales	Verticillium	Tree is deer resistant
54	Tipuana tipu	Tipu tree		A	SD	50	50	М	No	н	Partial to Full			Tree is deer resistant, drought tolerant
55	Ulmus parvifolia 'Brea'	Chinese elm 'Brea'		A	D	25	50	м	No	M	Partial to Full	Armillaria, Dutch Elm Disease, Canker, Twig Blight and Beetle Leaves, Borer		Branches droop but resist breakage
56	Ulmus parvifolia 'Drake'	Drake Chinese elm		A	D	25	50	М	No	M	Partial to Full	Dutch Elm Disease, Armillaria, Phytophthora, Root Rot and Aphids, Beetle Borers, Beetle Leaves, Caterpillars		Tree is deer resistant
57	, Zelkova serrata	Japanese zelkova		A	D	70	65	М	No	M	Partial to Full	Dutch Elm Disease and Beetle Leaves, Spider Mites		Somewhat more resistant to Dutch Elm Disease

BREAKOUT "D") What is your feedback on the DRAFT tree species list? (Whether it be general comments, or line-by-line input on the species