




MEMORANDUM

CITY OF SAUSALITO

TO: Trees and Views Committee

FROM: Lilly Schinsing, Administrative Analyst 

DATE: February 10, 2014

SUBJECT: Public Works Department Street Tree List

Discussion

The City of Sausalito maintains a list of allowable trees for street planting. All trees are not suitable for all streets and approval must be received from the City before planting. Criteria for choice will be appearance, growth pattern, view blockage (height), compatibility with other trees in the area, space and maintenance. See **Attachment 1** for the current street tree list.

Committee Member Wilhite contacted staff with a list of corrections and suggestions for the street tree list (see **Attachment 2**). Staff subsequently contacted the following arborists for professional advice:

- Artistry in Trees
- Ed Gurka Consulting
- Bartlett Tree

All three arborists provided thoughts on the corrections and suggestions (see **Attachment 3, 4 and 5**).

Staff has summarized the comments into a matrix for review (see **Attachment 6**).

Recommendation

Review the suggestions provided in **Attachments 2-6** and provide a recommendation to the Public Works Department on any changes to the Street Tree List.

Attachments

- 1- Current Street Tree List
- 2- Committee Member Wilhite suggestions
- 3- Artistry in Trees suggestions
- 4- Ed Gurka suggestions
- 5- Bartlett Tree suggestions
- 6- Matrix Summarizing suggestions

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CITY OF SAUSALITO STREET TREE LIST

The following are allowable trees for street tree planting. All trees are not suitable for all streets. Approval must be received from the Department of Public Works before planting. Criteria for choice will be appearance, growth pattern, view blockage (height), compatibility with other trees in the area, space and maintenance.

EVERGREEN TREES

COMMON NAME

Evergreen Ash
 Carob (good St. tree)
 Red Flowering Gum
 Willow-Leafed Peppermint
 Silver Dollar Gum
 Pink Iron Bark
 Indian Laurel Fig
 Morton Bay Fig
 California Pepper Tree
 Coastal Live Oak (highly recommended)
 Holly Oak (highly recommended)
 Cork Oak (highly recommended)
 Catalina Cherry
 Flaxleaf paperbark
 Wilson Holly
 Grecian Laurel
 Southern Magnolia
 Mayten Tree
 Cajeput Tree
 New Zealand Christmas Tree
 Myoporum
 Olive
 Tristania Laurina
 Tristania Conferta
 Japanese Black Pine
 Australian Black Pine

BOTANICAL NAME

Fraxinus uhdei
Ceratonia siliqua
Eucalyptus ficifolia
Eucalyptus nicholii
Eucalyptus polyanthemos
Eucalyptus sideroxylon
Ficus retusa 'Nitida'
Ficus macrophylla
Schinus molle
Quercus agrifolia
Quercus ilex
Quercus suber
Primus lyonii
Melaleuca linariifolia
Ilex altaclarensis 'Wilsonii'
Laurus nobilis
Magnolia grandiflora
Maytenus boaria
Melaleuca quinquenervia
Metrosideros excelsa
Myoporum laetum
Olea europaea
Tristania laurina
Tristania conferta
Pinus thunbergiana
Pinus nigra

DECIDUOUS TREES

COMMON NAME	BOTANICAL NAME
Japanese Maple	<i>Acer palmatum</i>
White Alder	<i>Alnus rhombifolia</i>
Italian Alder	<i>Alnus cordata</i>
Shademaster Honey Locust	<i>Gleditsia triacanthos inermis</i>
Jacaranda	<i>Jacaranda acutifolia</i>
Sweet Gum	<i>Liquidambar styracifolia</i>
Tulip Tree	<i>Liriodendron tulipifera</i>
London Plane Tree	<i>Platanus acerifolia</i>
Thundercloud Plum	<i>Prunus cerasifera</i>
Alceban Flowering Cherry	<i>Prunus yedoensis</i>
Japanese Zelkova	<i>Kelkova serrata</i>
Aristocrat Pear	<i>Pyrus calleryana</i>
Commice Pear	<i>Pyrus communis</i>
Crape Myrtle	<i>Lagerstroemia indica</i>
Ginkgo (Maidenhair Tree)	<i>Ginkgo biloba</i>

UNDESIREABLE TREES

The following trees are defined as "Undesirable Trees" by Section 11.12.020 of the Sausalito Municipal Code:

COMMON NAME	BOTANICAL NAME
Blue Gum Eucalyptus	<i>Eucalyptus globulus</i>
Monterey Pine	<i>Pinus radiata</i>
Monterey Cypress	<i>Cupressus macrocarpa</i>
Coastal Redwood	<i>Sequoia sempervirens</i>
Blackwood Acacia	<i>Acacia melanoxylon</i>
Bailey Acacia	<i>Acacia baileyana</i>
Green Wattle	<i>Acacia decurrens</i>

COMMITTEE MEMBER WILHITE SUGGESTIONS

CITY OF SAUSALITO STREET TREE LIST

Corrections

EVERGREEN TREES

COMMON NAME	BOTANICAL NAME
Indian Laurel Fig	Ficus retusa 'Nitida' <u>nitida</u>
Coastal Coast Live Oak	Quercus agrifolia
Catalina Cherry	Prunus Prunus <u>ilicifolia</u> lyonii
Wilson Holly	Ilex X altaclarensis 'Wilsonii'
Tristania Laurina <u>Water Gum</u>	Tristania <u>Tristaniopsis</u> laurina
Tristania conferta <u>Brisbane Box</u>	Tristania conferta <u>Lophostemon confertus</u>

DECIDUOUS TREES

White Alder	Alnus <u>Alnus</u> rhombifolia
Italian Alder	Alnus <u>Alnus</u> cordata
London Plane Tree	Platanus acerifolia <u>X hispanica</u>
Thundercloud Plum	Prunus cerasifera ' <u>Thundercloud</u> '
Aleebano <u>Yoshino</u> Flowering Cherry	Prunus <u>X</u> yedoensis
Japanese Zelkova	Kelkova <u>Zelkova</u> serrata

Comments

EVERGREEN TREES

Carob – could delete “good St. tree” since all of these are supposed to be that.

Coast Live Oak – not sure I would say “highly recommended.” It has greedy roots, drops a lot of litter year round, and is highly susceptible to Sudden Oak Death.

Holly Oak – Susceptible to Sudden Oak Death and mildew, so not highly recommended.

Cork Oak – This tree is better suited to the desert. The Sunset Western Garden Book does not recommend planting it in our zone.

Possible additions:

1. Arbutus 'Marina' – Reddish bark, long panicles of pink flowers, and year-round good looks recommend this tree.
2. Bronze Loquat – Eriobotrya deflexa – Another nice small tree that has white flowers in spring and very little fruit drop.

DECIDUOUS TREES

Shademaster Honey Locust – This is another tree that is recommended for the desert but not for our zone. It also has heavy, invasive roots that will lift nearby pavement.

Sweet Gum – This one needs lots of space, as its roots are invasive and can crack and buckle sidewalks. Also, it drops spikey "gumballs" that can be a nuisance and are hard enough to blow out bicycle tires.

London Plane Tree – Has not done well in the Bridgeway medians. Not recommended for windy, coastal areas like ours. Highly susceptible to mildew. Also sheds tiny hairs in late spring that irritate the throat and can cause serious breathing problems for people with asthma.

ARTISTRY IN TREES SUGGESTIONS

CITY OF SAUSALITO STREET TREE LIST

Corrections

EVERGREEN TREES

COMMON NAME

BOTANICAL NAME

Indian Laurel Fig

Ficus retusa ~~'Nitida'~~ nitida **Ficus retusa**

variety nitida or Ficus microcarpa

~~Coastal~~ Coast Live Oak

Quercus agrifolia

Catalina Cherry

~~Prunus~~ Prunus ilicifolia lyonii

Wilson Holly

Ilex ~~X~~ altaclarensis 'Wilsonii'

altaclerensis wilsonii

~~Tristania Laurina~~ Water Gum

~~Tristania~~ Tristaniopsis laurina

~~Tristania conferta~~ Brisbane Box

~~Tristania conferta~~ Lophostemon confertus

DECIDUOUS TREES

White Alder

~~Alnus~~ Alnus rhombifolia

Italian Alder

~~Alnus~~ Alnus cordata

London Plane Tree

Platanus ~~acerifolia~~ X hispanica

Thundercloud **Purple leaf** Plum
'Thundercloud'

Prunus cerasifera

~~Alcebane~~ Yoshino Flowering Cherry

Prunus ~~X~~ yedoensis

Japanese Zelkova

~~Zelkova~~ Zelkova serrata

Comments

EVERGREEN TREES

Carob – *Ceratonia siliqua* could delete “good St. tree” since all of these are supposed to be that.

Coast Live Oak – not sure I would say “highly recommended.” It has greedy roots, drops a lot of litter year round, and is highly susceptible to Sudden Oak Death.

Holly Oak – *Quercus ilex* Susceptible to Sudden Oak Death and mildew, so not highly recommended.

Cork Oak – *Quercus suber* This tree is better suited to the desert. The Sunset Western Garden Book does not recommend planting it in our zone.

Possible additions:

1. Arbutus ‘Marina’ – Reddish bark, long panicles of pink flowers, and year-round good looks recommend this tree.
2. Bronze Loquat – *Eriobotrya deflexa* – Another nice small tree that has white flowers in spring and very little fruit drop.

DECIDUOUS TREES

Shademaster Honey Locust *Gleditsia triacanthos* – This is another tree that is recommended for the desert but not for our zone. It also has heavy, invasive roots that will lift nearby pavement.

Sweet Gum – *Liquidambar styraciflua* This one needs lots of space, as its roots are invasive and can crack and buckle sidewalks. Also, it drops spikey “gumballs” that can be a nuisance and are hard enough to blow out bicycle tires.

London Plane Tree – Has not done well in the Bridgeway medians. Not recommended for windy, coastal areas like ours. Highly susceptible to mildew. Also sheds tiny hairs in late spring that irritate the throat and can cause serious breathing problems for people with asthma.

ED GURKA SUGGESTIONS

CITY OF SAUSALITO STREET TREE LIST

Corrections

EVERGREEN TREES

COMMON NAME	BOTANICAL NAME
Indian Laurel Fig	Ficus retusa 'Nitida' <u>nitida</u>
Coastal Coast Live Oak	Quercus agrifolia
Catalina Cherry	Prunus Prunus <u>ilicifolia</u> lyonii
Wilson Holly	Ilex X altaclarensis 'Wilsonii'
Tristania Laurina Water Gum	Tristania <u>Tristaniopsis</u> laurina
Tristania conferta Brisbane Box	Tristania conferta <u>Lophostemon confertus</u>

DECIDUOUS TREES

White Alder	Alnus <u>Alnus</u> rhombifolia
Italian Alder	Alnus <u>Alnus</u> cordata
London Plane Tree	Platanus acerifolia X <u>hispanica</u>
Thundercloud Plum	Prunus cerasifera ' <u>Thundercloud</u> '
Aleebano Yoshino Flowering Cherry	Prunus X yedoensis
Japanese Zelkova	Kelkova <u>Zelkova</u> serrate

Additions suggestions:

Ginkgo biloba, "Autumn Gold" and "Fairmont" don't plant female varieties fruit obnoxious. Very hardy, a big when mature tree. Autumn color yellow.

Pyrus calleryana "Bradford" (horizontal limbs), "Aristocrat" (pyramidal up curving branches), Redspire (similar w/ yellow red fall color), "Capital" and

“Whitehouse” are more columnar, “Chanticleer”. narrow but not columnar (40 by 15’ wide),” Trinity” (rounded canopy) “Cleveland” & “Stonehill” (30 ft., orange fall color).

Comments

EVERGREEN TREES

Carob – could delete “good St. tree” since all of these are supposed to be that.

Coast Live Oak – not sure I would say “highly recommended.” It has greedy roots, drops a lot of litter year round, and is highly susceptible to Sudden Oak Death.

Holly Oak – Susceptible to Sudden Oak Death and mildew, so not highly recommended.

Cork Oak – This tree is better suited to the desert. The Sunset Western Garden Book does not recommend planting it in our zone.

Possible additions:

1. Arbutus ‘Marina’ – Reddish bark, long panicles of pink flowers, and year-round good looks recommend this tree.
2. Bronze Loquat – Eriobotrya deflexa – Another nice small tree that has white flowers in spring and very little fruit drop.

Additions descriptions:

Pinus nigra, Austrian Black Pine, Dense crown, 40ft mature withstands wind cold weather.

Pinus mugo mugo, Mugo Pine Low growing pine to 4 feet and spreading growth.

DECIDUOUS TREES

Shademaster Honey Locust – This is another tree that is recommended for the desert but not for our zone. It also has heavy, invasive roots that will lift nearby pavement.

Sweet Gum – This one needs lots of space, as its roots are invasive and can crack and buckle sidewalks. Also, it drops spikey “gumballs” that can be a nuisance and are hard enough to blow out bicycle tires.

London Plane Tree – Has not done well in the Bridgeway medians. Not recommended for windy, coastal areas like ours. Highly susceptible to mildew. Also sheds tiny hairs in late spring that irritate the throat and can cause serious breathing problems for people with asthma.

Additions descriptions:

Platanus hispanica, varieties that are somewhat better adopted to anthracnose a problem in cool wet climates with high humidity are "Bloodgood and Yarwood" I believe from experience is because bud break occurs later than other species.

Acer palmatum, Japanese Maple (many varieties)

Acer rubrum, Scarlet Maple (40 ft with 20 ft. spread, fast growing.)

From: Juan Ochoa [jochoa@Bartlett.com]
Sent: Thursday, December 12, 2013 3:01 PM
To: Doug Smith
Subject: RE: Tree list

Importance: High

Hi Doug,

Below are my comments on the tree list you wanted me to review:

1. Indian Laurel Fig is better known as *Ficus microcarpa*
2. The other trees common and scientific names are fine.
3. When you write the scientific names either use *italic letters* or underline the names.
4. Holly Oak is not susceptible to sudden oak death
5. Cork oaks actually do fine in Southern Marin, even though the sunset western garden book says it does not.
6. I would not recommend the Arbutus Marina because there is a new unknown disease that is killing these trees.
7. I would recommend the City of Sausalito looking at the list of trees that PG&E recommends to plant under power lines. These are medium to small size street trees that were picked considering the microclimates of the Bay Area.

Please let me know if you have any other questions.

Thank you,

Juan

Juan Ochoa
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ATTACHMENT 5
(1 PAGE)

Item #	Current Street Tree List		TVC Member Wilhite Recommendation		Artistry in Trees Recommendations		Ed Gurka Recommendations		Bartlett Tree Recommendations		
	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name	
1	Evergreen ash	<i>Fraxinus uhdei</i>									
2	Carob (good St. tree)	<i>Ceratonia siliqua</i>	no change, but delete "good st. tree" since all of these								
3	Red Flowering Gum	<i>Eucalyptus ficifolia</i>	no recommended changes								
4	Willow-Leafed Peppermint	<i>Eucalyptus nicholii</i>									
5	Silver Dollar Gum	<i>Eucalyptus polyanthemos</i>									
6	Pink Iron Bark	<i>Eucalyptus sideroxylon</i>									
7	Indian Laurel Fig	<i>Ficus retusa 'Nitida'</i>	Indian Laurel Fig	<i>Ficus retusa nitida</i>	Indian Laurel Fig	<i>Ficus retusa variety nitida</i> or <i>Ficus microcarpa</i>	Indian Laurel Fig	no change from Wilhite recommendation	Indian Laurel fig	<i>Ficus microcarpa</i>	
8	Morton Bay Fig California Pepper Tree	<i>Ficus macrophylla</i>	no recommended changes								
9		<i>Schinus molle</i>									
10			Coast Live Oak	<i>Quercus agrifolia</i>							
11	Coastal Live Oak (highly recommended)	<i>Quercus agrifolia</i>	Not sure I would say "highly recommended" it has greedy roots, drops a lot of litter year round, and is highly susceptible to Sudden Oak Death								
12	Holly Oak (highly recommended)	<i>Quercus ilex</i>	Susceptible to Sudeen Oak Death and mildew, so not highly recommended								

	Current Street Tree List		TVC Member Wilhite Recommendation		Artistry in Trees Recommendations		Ed Gurka Recommendations		Bartlett Tree Recommendations	
	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name
13	Cork Oak (highly recommended)	<i>Quercus suber</i>	This tree is better suited to the desert. The Sunset Western Gardn Book does not recommend planting in							cork oaks do fine in Southern Marin, even though the sunset western garden book says otherwise
14	Catalina Cherry	<i>Prunus lyonii</i>	Catalina Cherry	<i>Prunus ilicifolia lyonii</i>	no change from Wilhite recommendation			no change from Wilhite recommendation		
15	Flaxleaf paperbark	<i>Melaleuca linariifolia</i>								
16	Wilson Holly	<i>Ilex altacalarensis 'Wilsonii'</i>	Wilson Holly	<i>Ilex X altacalarensis 'Wilsonii'</i>	Wilson Holly	Wilson Holly	<i>Alfataclarensis wilsonii</i>			no change from Wilhite recommendation
17	Grecian Laurel	<i>Laurus nobilis</i>								
18	Southern Magnolia	<i>Magnolia grandiflora</i>								
19	Mayten Tree	<i>Maytenus boaria</i>								
20	Cajeput Tree	<i>Melaleuca quinquenervia</i>								
21	New Zealand Christmas Tree	<i>Metrosideros excelsa</i>								
22	Myoporium	<i>Myoporum laetum</i>								
23	Olive	<i>Olea europaea</i>								
24	Tristania Laurina	<i>Tristania Laurina</i>	Water Gum	<i>Tristaniaopsis laurina</i>				no change from Wilhite recommendation		no change from Wilhite recommendation
25	Tristania Conferta	<i>Tristania conferta</i>	Brisbane Box	<i>Lophostemon confertus</i>				no change from Wilhite recommendation		no change from Wilhite recommendation
26	Japanese Black Pine	<i>Pinus thunbergiana</i>								
27	Australian Black Pine	<i>Pinus nigra</i>								no recommended changes

Evergreen Trees

no recommended changes

no recommended changes

	Current Street Tree List		TVC Member Wilhite Recommendation		Artistry in Trees Recommendations		Ed Gurka Recommendations		Bartlett Tree Recommendations	
	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name
28	Japanese Maple	<i>Acer palmatum</i>			<i>no recommended changes</i>					
29	White Alder	<i>Alnus rhombifolia</i>	White Alder	<i>Alnus rhombifolia</i>	no change from Wilhite recommendation		no change from Wilhite recommendation		no change from Wilhite recommendation	
30	Italian Alder	<i>Alnus cordata</i>	Italian Alder	<i>Alnus cordata</i>	no change from Wilhite recommendation		no change from Wilhite recommendation		no change from Wilhite recommendation	
31	Shademaster Honey Locust	<i>Gleditsia triacanthos inermis</i>	This is another tree that is recommended for the desert but not for our zone. It also has heavy, invasive roots that will lift nearby pavement.							
32	Jacaranda	<i>Jacaranda acutifolia</i>			<i>no recommended changes</i>					
33	Sweet Gum	<i>Liquidambar styracifolia</i>	<i>This one needs lots of space, as its roots are invasive and can crack and buckle sidewalks. Also, it drops spikey "gumballs" that can be a nuisance and are hard enough to blow out bicycle tires.</i>							
34	Tulip Tree	<i>Liriodendron tulipifera</i>			<i>no recommended changes</i>					
35			London Plane Tree	<i>Platanus X Hispanica</i>			no change from Wilhite recommendation		no change from Wilhite recommendation	
			Has not done well in the Bridgeway medians. Not recommended for windy, coastal areas like ours. Highly susceptible to mildew. Also sheds tiny hairs in late spring that irritate the throat and can cause serious breathing problems for people with				Platanus hispanica, varities that are somewhat better adopted to anthracnose a problem in cool wet climates with high humidity are "Bloodgood and Yarwood" I believe from experience is because bud break occurs later that other species.			
36	London Plane Tree	<i>Platanus acerifolia</i>			no change from Wilhite recommendation				no change from Wilhite recommendation	

	Current Street Tree List		TVC Member Wilhite Recommendation		Artistry in Trees Recommendations		Ed Gurka Recommendations		Bartlett Tree Recommendations	
	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name
37	Thundercloud Plum	<i>Prunus cerasifera</i>	Thundercloud Plum	<i>Prunus cerasifera</i> "Thundercloud"	Thundercloud Plum	<i>Prunus cerasifera</i> 'Thundercloud'				
38	Aicebano Flowering Cherry	<i>Prunus yedoensis</i>	Yoshino Flowering Cherry	<i>Prunus X yedoensis</i>						
39	Japanese Zelkova	<i> Zelkova serrata</i>	Japanese Zelkova	<i>Zelkova serrata</i>						
40	Aristocrat Pear	<i>Pyrus calleryana</i>								
41	Commice Pear	<i>Pyrus communis</i>								
42	Crape Myrtle	<i>Lagerstroemia indica</i>								
43	Ginko (Maidenhair Tree)	<i>Ginkgo biloba</i>								

no recommended changes

Ginkgo biloba, "Autumn Gold" and "Fairmont" don't plant female varieties fruit obnoxious. Very hardy, a big when mature tree. Autumn color yellow.

	Current Street Tree List		TVC Member Willhite Recommendation		Artistry in Trees Recommendations		Ed Gurka Recommendations		Bartlett Tree Recommendations	
	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name	Common Name	Botanical Name
44							Pinus mugo mugo, Mugo Pine Low growing pine to 4 feet and spreading growth. Pinus nigra, Austrian Black Pine, Dense crown, 40ft mature withstands wind cold weather.			
45										
46										Recommend looking at list of trees the PG&E recommends to plant under power lines. These are medium to small size street trees that were picked considering the microclimates of the Bay Area
47			Bronze Loquat- Eriobotrya deflexa- another nice small tree that has white flowers in spring and very little fruit drop Arbutus 'Marina'- Reddish bark, long panicles of pink flowers, and year-round good looks, recommend this tree							Would not recommend Arbutus Marina because there is a new unknown disease that is killing these trees
48										

Recommended Additions- Evergreen

