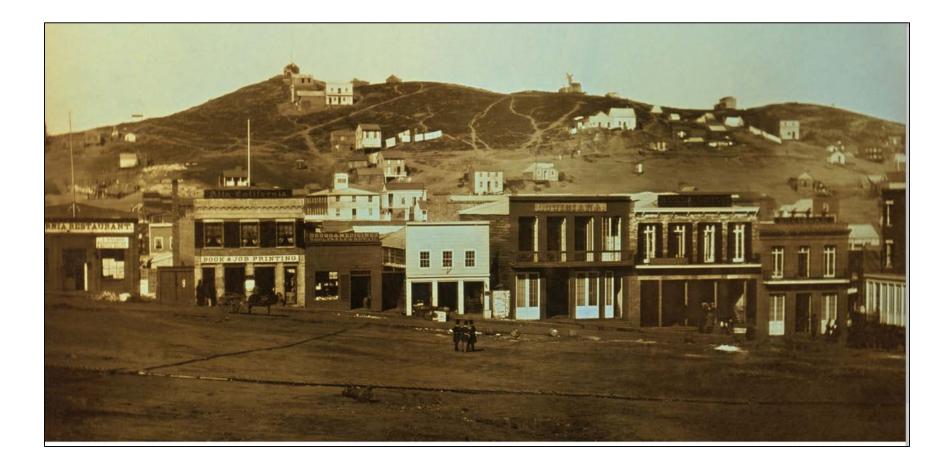


Celebrating Biodiversity – Lessons from San Francisco's Street Tree Inventory

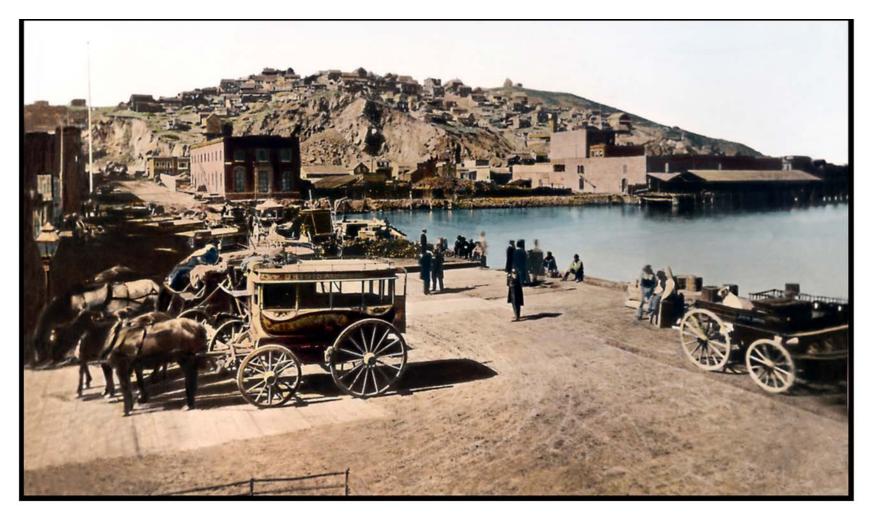


Kelaine Ravdin Urban Ecos, LLC kelaine@urban-ecos.com

Portsmouth Square, 1851



Telegraph Hill from Vallejo St Wharf, 1866

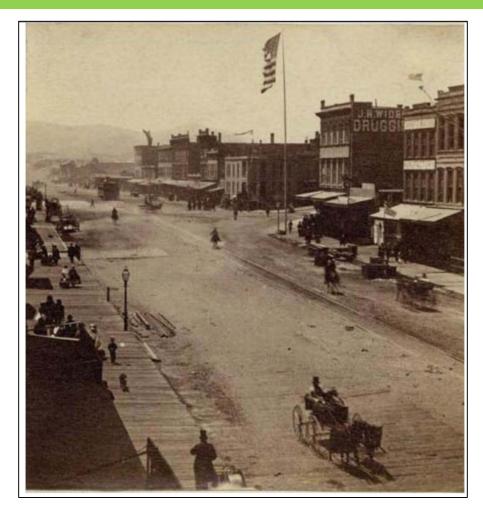


"...perfectly bare of trees or shrubs — and almost awfully bleak ..." –Frederick Law Olmsted writing to his wife in 1863

Powell and Clay, 1867



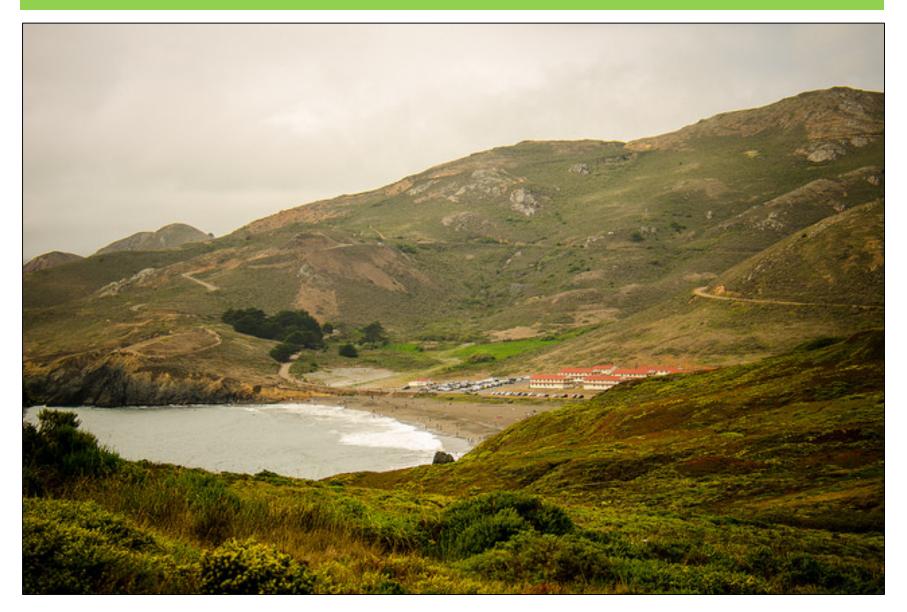
Market St, looking west, 1860s



"There is not a full grown tree of beautiful proportions near San Francisco..."

-Frederick Law Olmsted, 1867

Marin Headlands



Golden Gate Park

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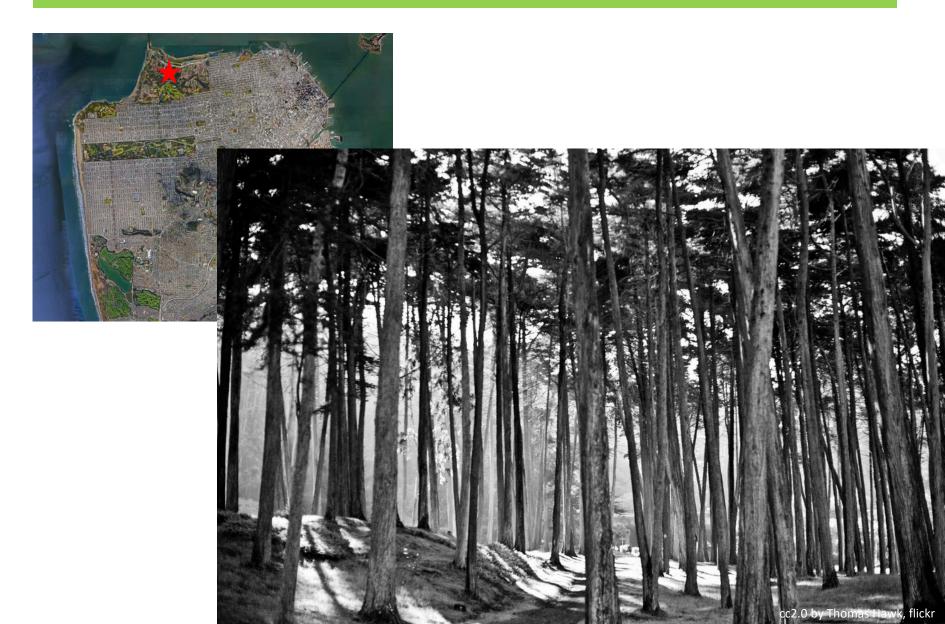
Stern Grove



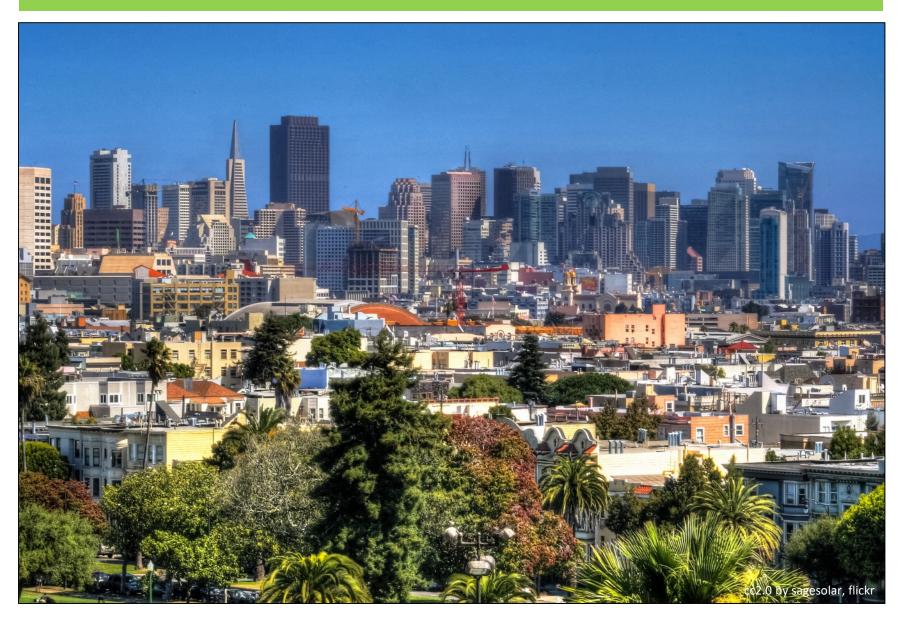
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San Francisco from Dolores Park



San Francisco Street Trees, 2017

Acacia baileyana

Number of species

521

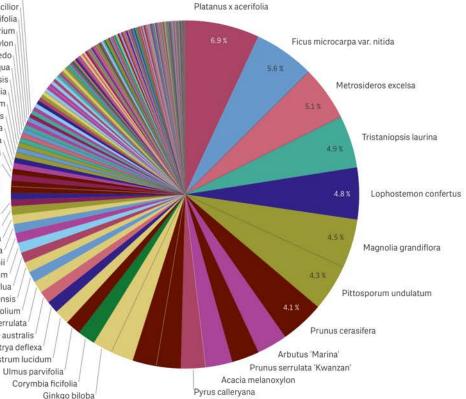
Number of trees

124,619

Species Totals	Q	Number of trees
Ficus microcarpa var. nitida		7,024
Metrosideros excelsa		6,334
Tristaniopsis laurina		6,067
Lophostemon confertus		5,998
Magnolia grandiflora		5,639
Pittosporum undulatum		5,397
Prunus cerasifera		5,078
Arbutus 'Marina'		3,507
Prunus serrulata 'Kwanzan'		3,196
Acacia melanoxylon		3,094
Pyrus calleryana		2,844
Olea europaea		2,800
Maytenus boaria		2,779
Callistemon citrinus		2,608

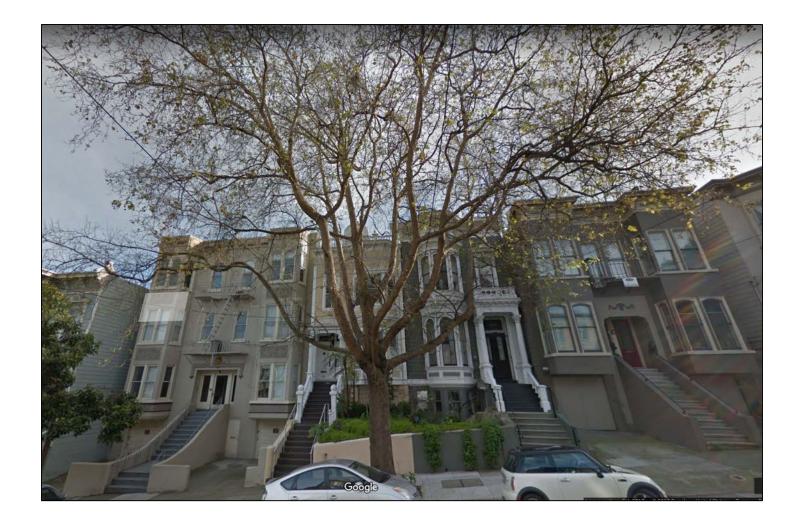
Species distribution *



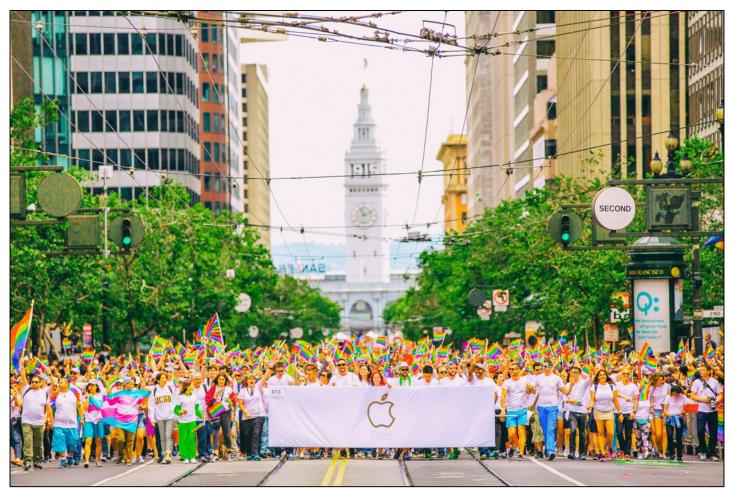


* Currently showing a limited data set.

Species distribution



London planes, Market St.



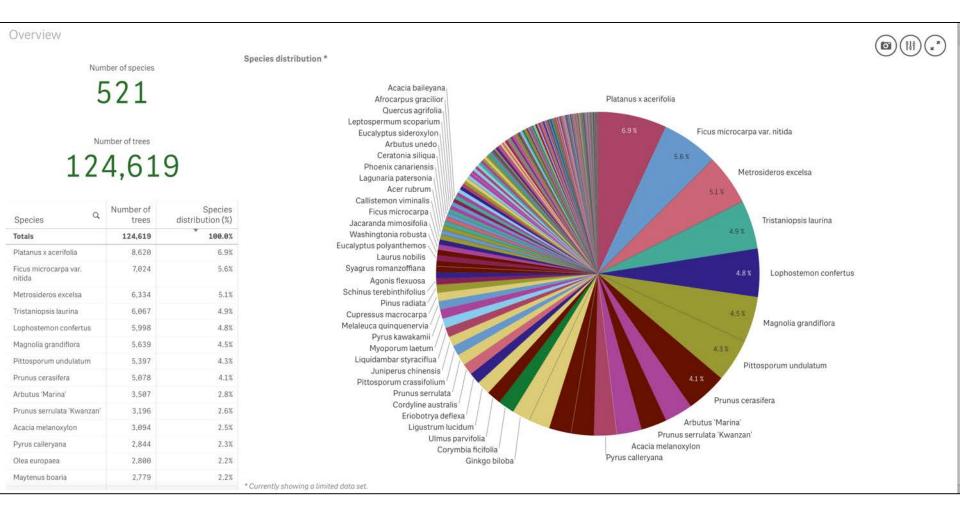
cc2.0 by Thomas Hawk, flickr

London planes, City Hall

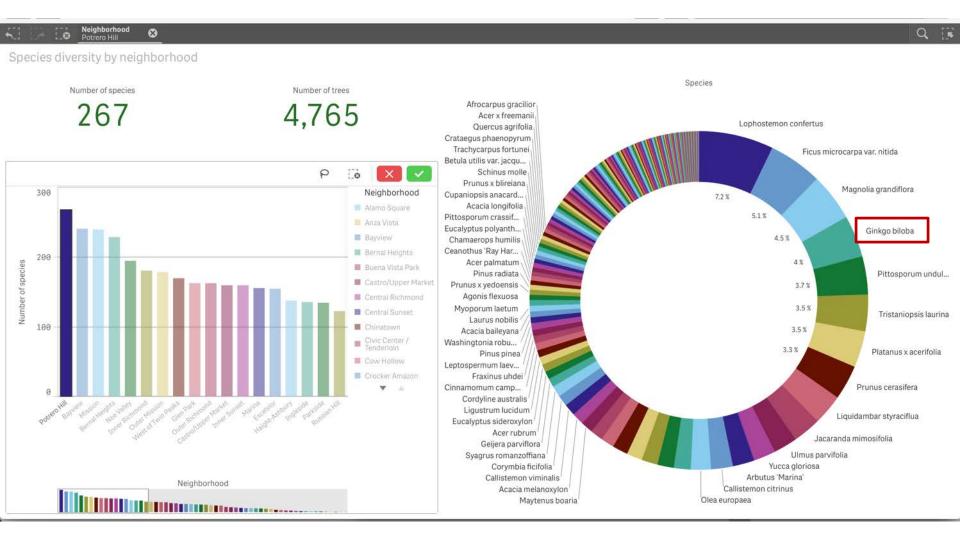


cc2.0 by sswj, flickr

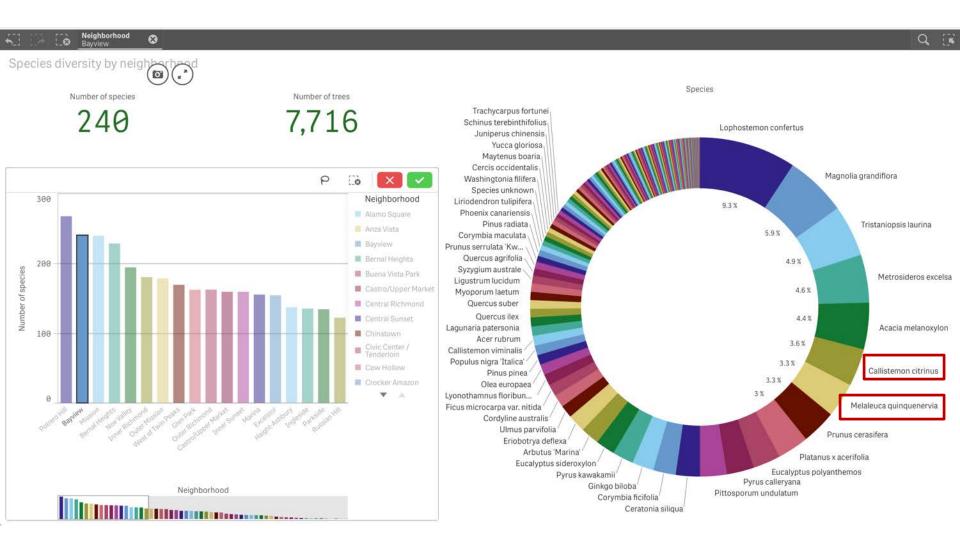
Species distribution, citywide



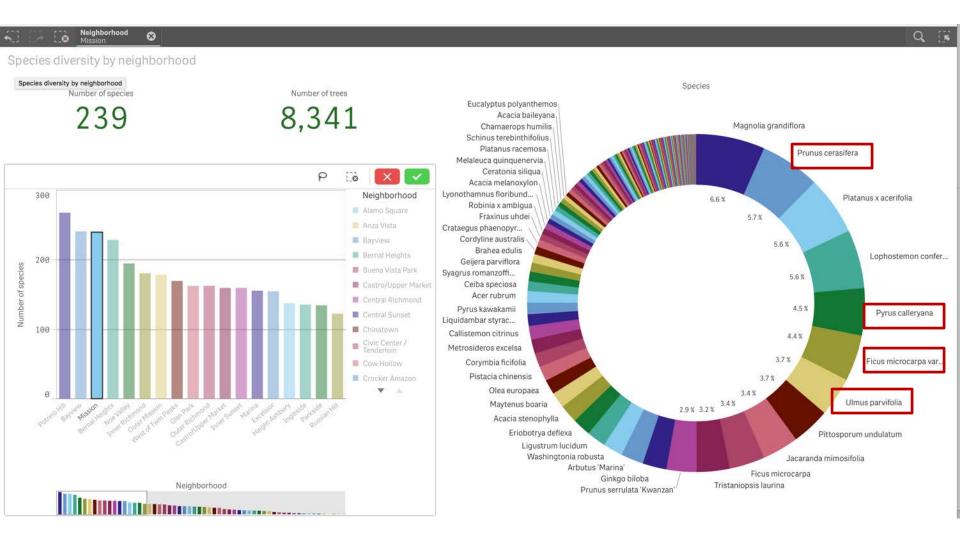
Species distribution, Potrero Hill



Species distribution, Bayview

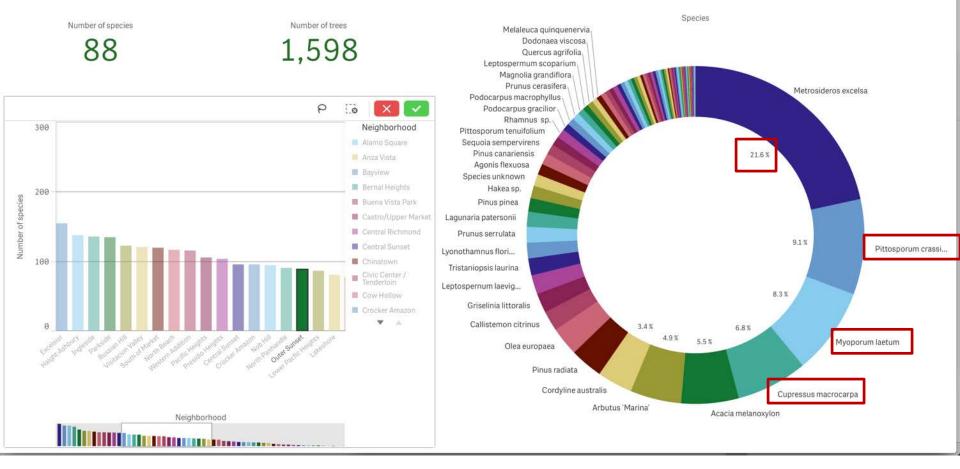


Species distribution, Mission

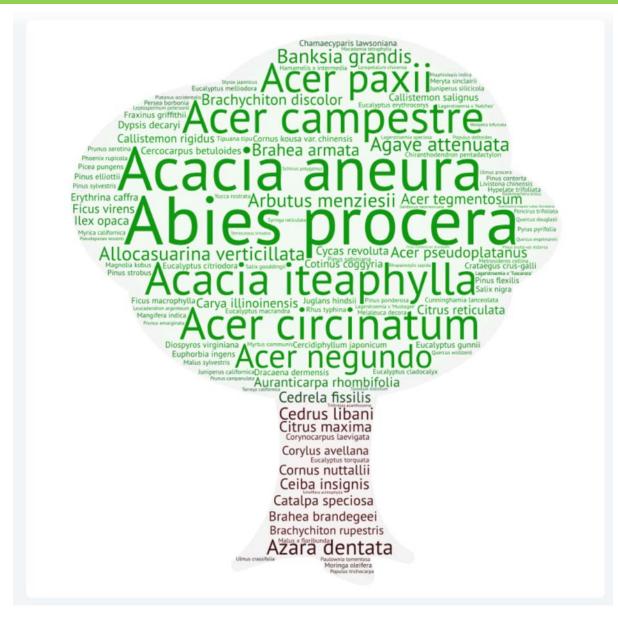


Species distribution, Outer Sunset

Species diversity by neighborhood



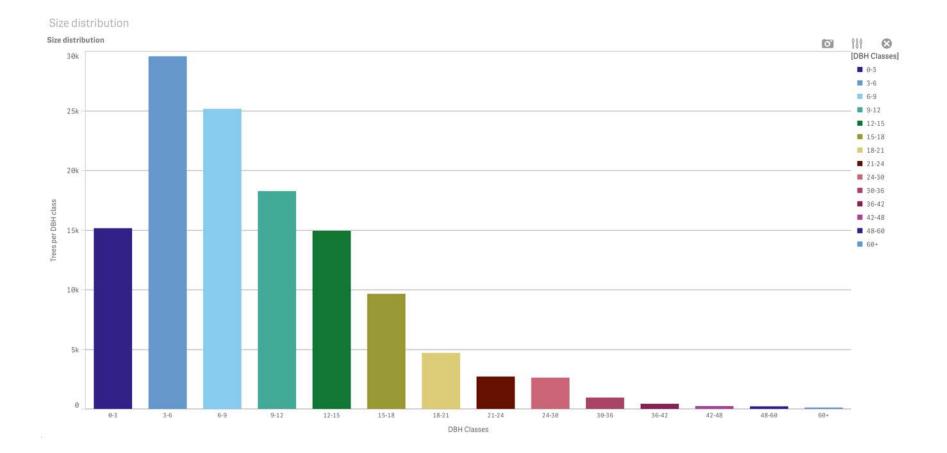
Rare species



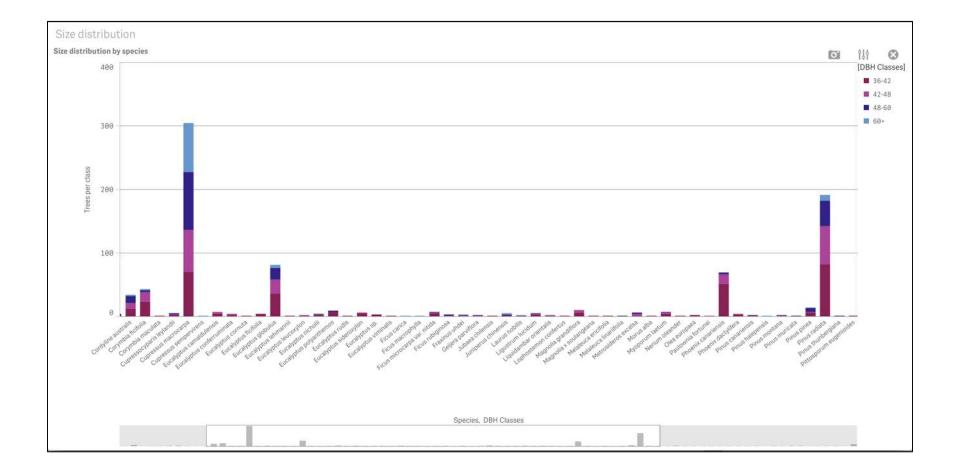
Size (age) distribution



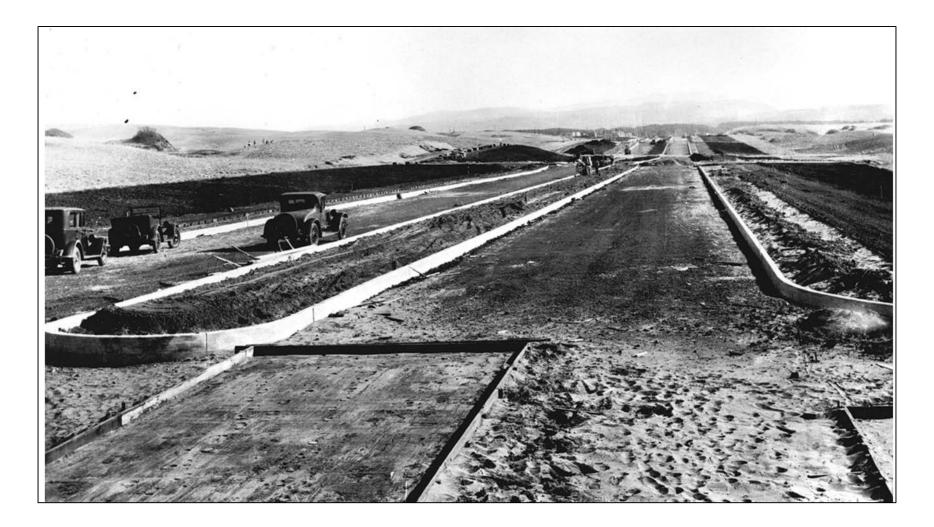
Age distribution, citywide



Big trees, DBH > 36 inches



Sunset Blvd at Kirkham



Sunset Blvd at Kirkham



Cupressus macrocarpa, Sunset Blvd.



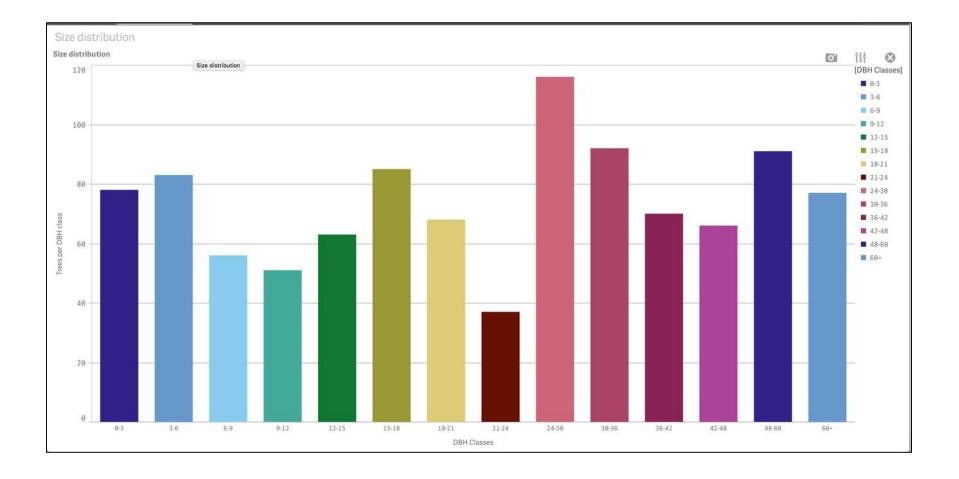
Cupressus macrocarpa, San Jose Ave



Monterey cypress, Potrero Hill

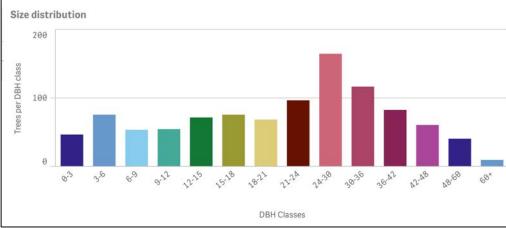


Age distribution, Monterey cypress



Pinus radiata

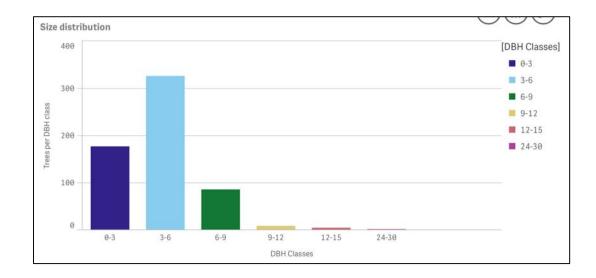


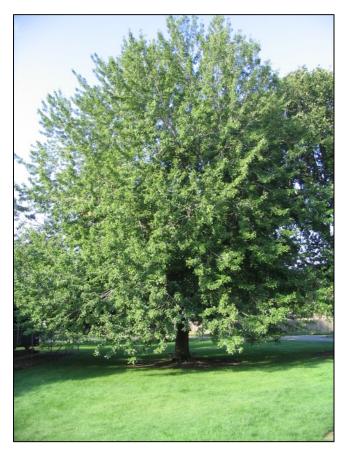


Age distribution, Indian hawthorne

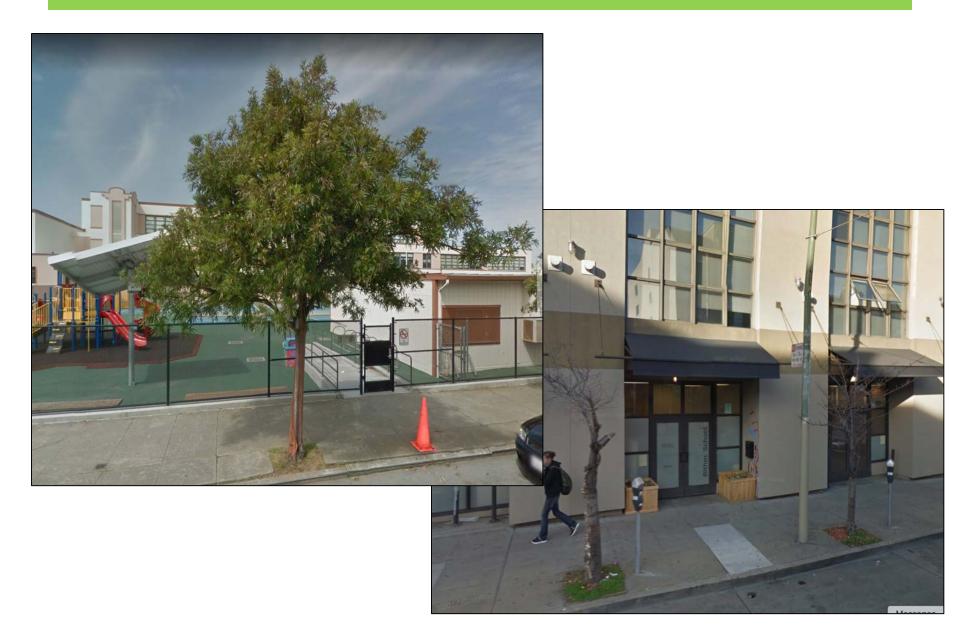


Age distribution, red maple

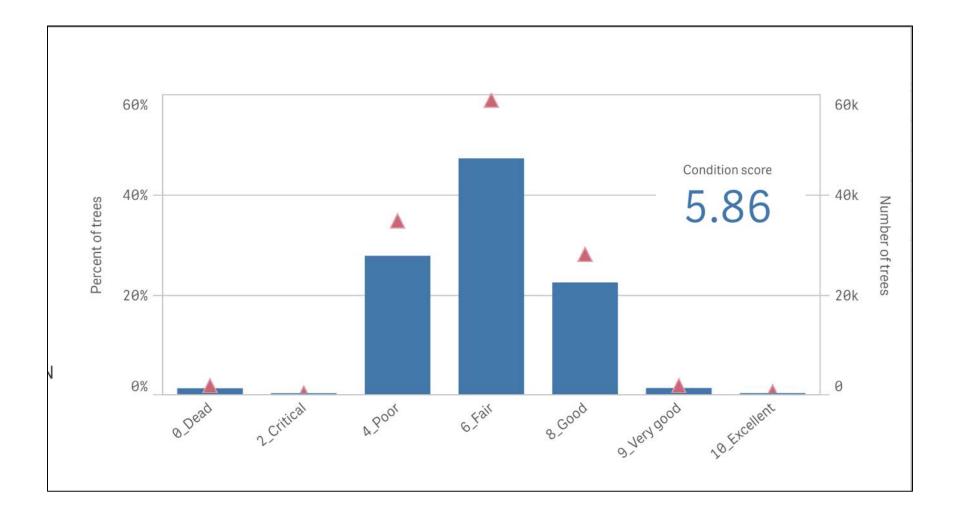




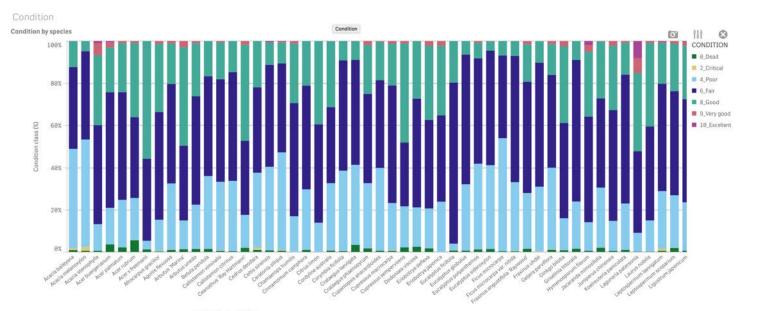
Condition

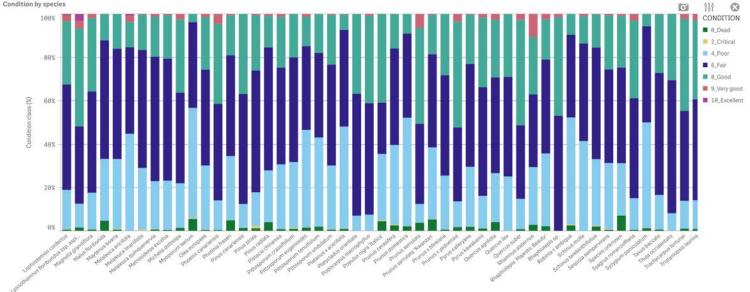


Condition

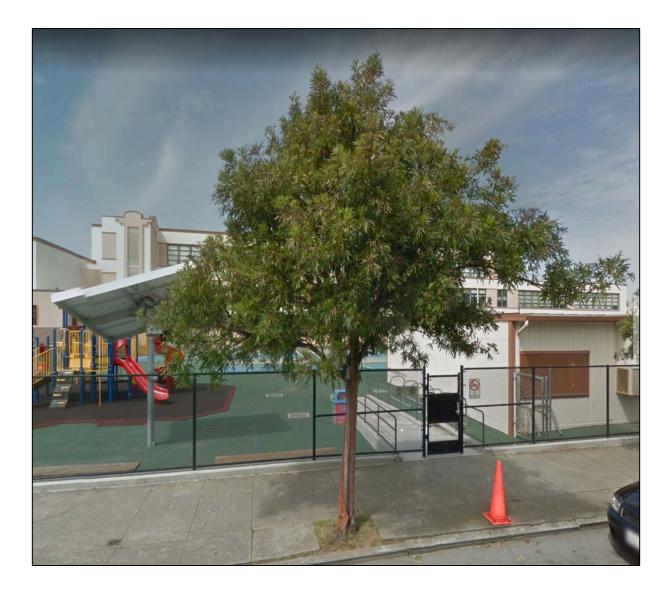


Condition by species

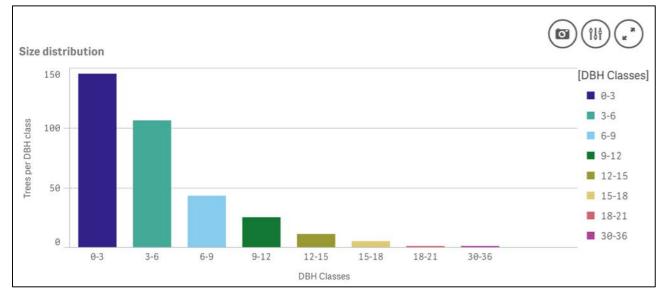


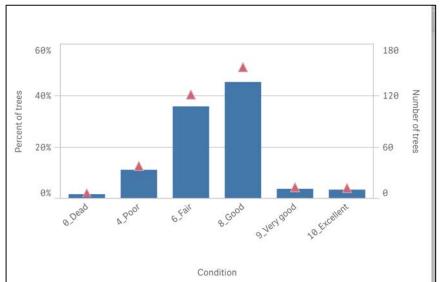


Lyonothamnus floribundus



Lyonothamnus floribundus



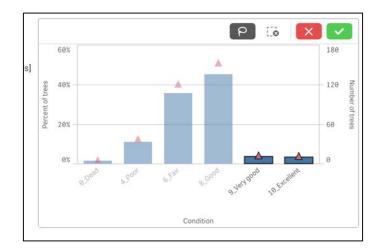


Condition score

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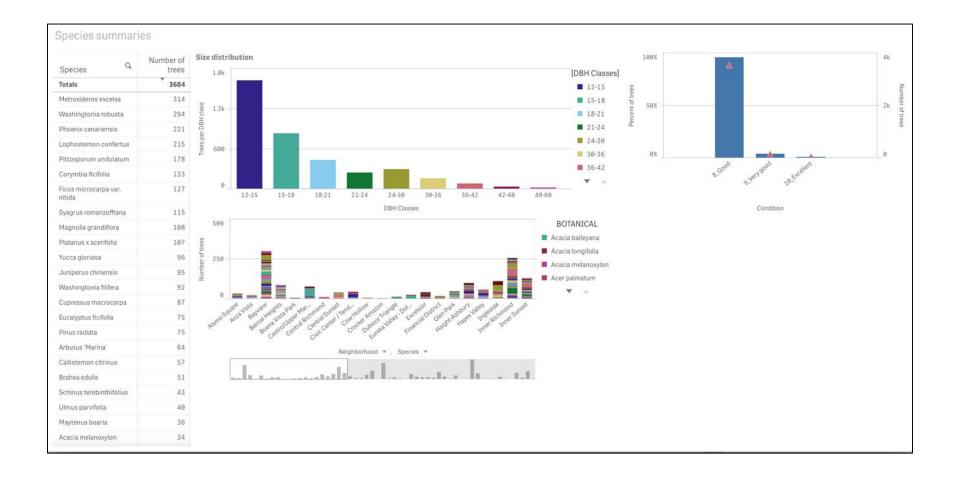
6.83

Lyonothamnus floribundus

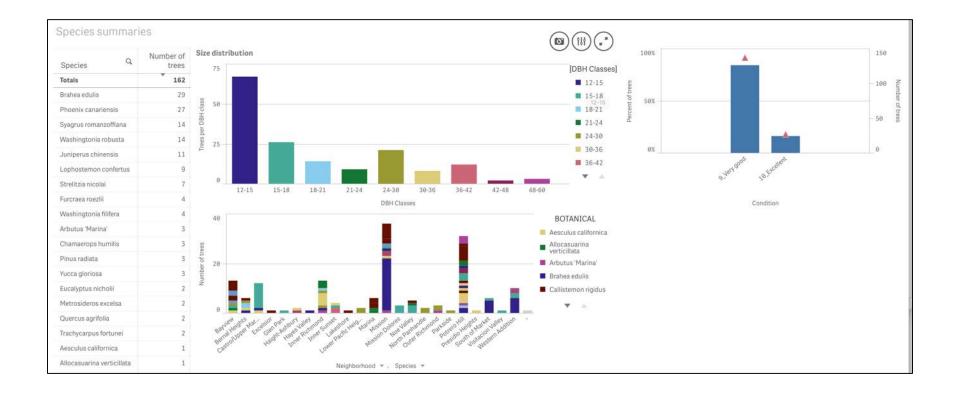




Big trees in good shape

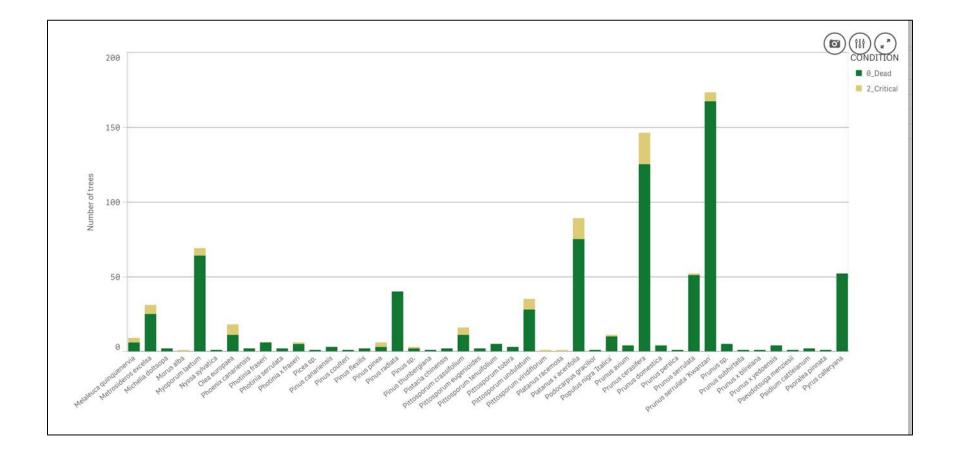


Big trees in really good shape



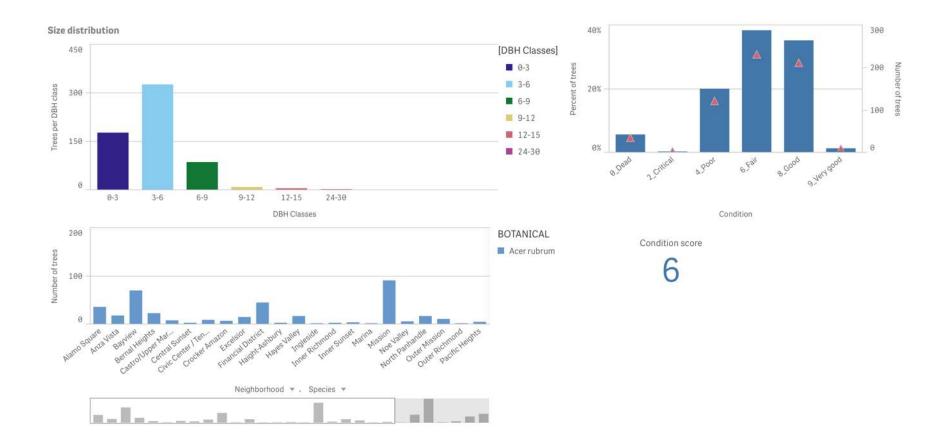
= palms

Trees in bad shape

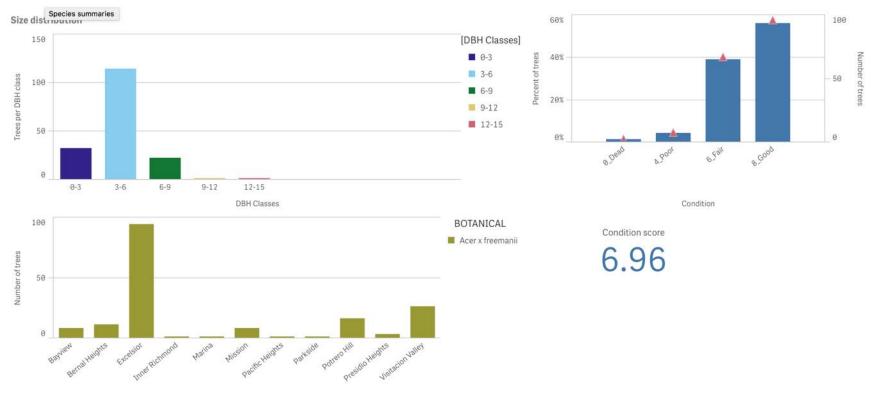




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Acer x freemanii

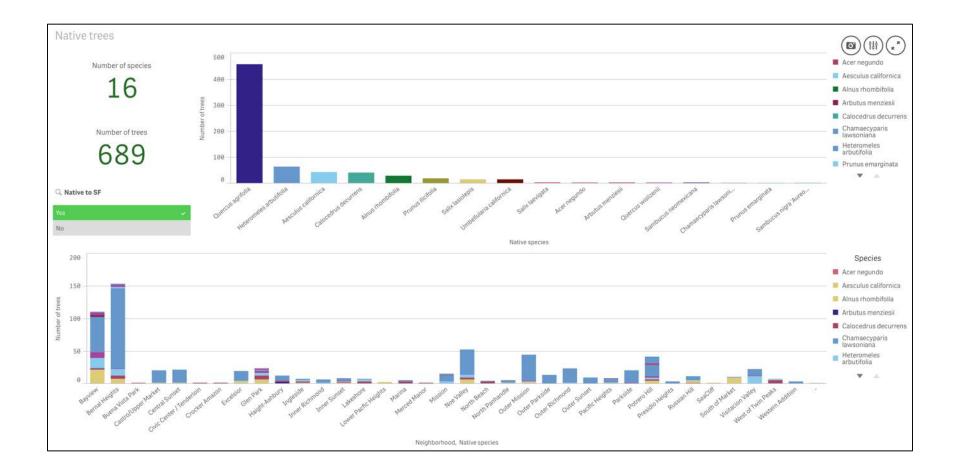


Neighborhood 🔻 , Species 🔻

Native species



Native species



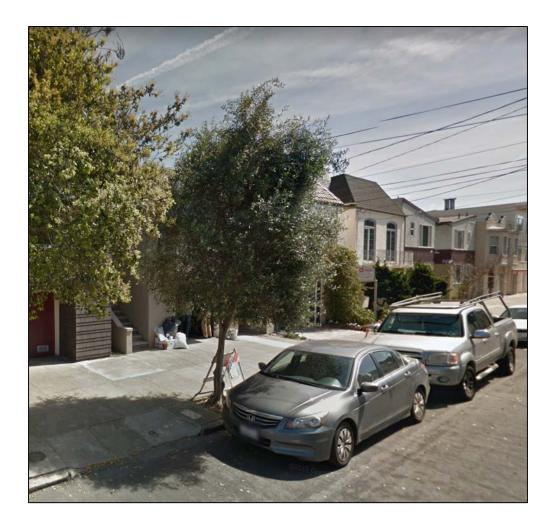
Quercus agrifolia



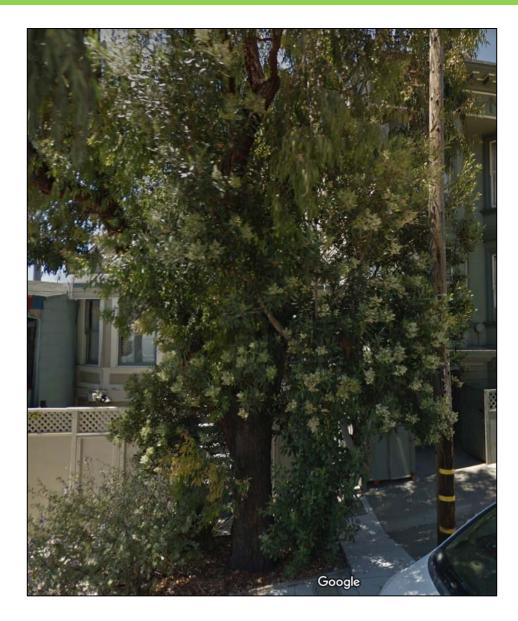
Quercus agrifolia



Quercus agrifolia, 48th Ave.



Heteromeles arbutifolia



Aesculus californica



Aesculus californica



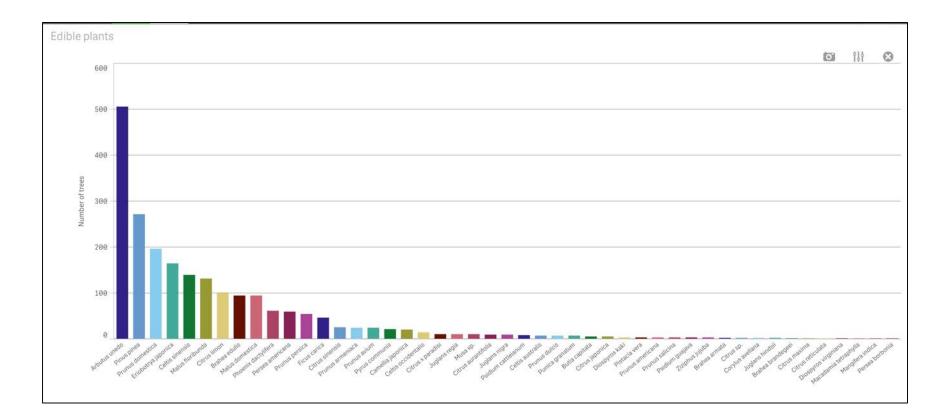


Number of species

47

Number of trees

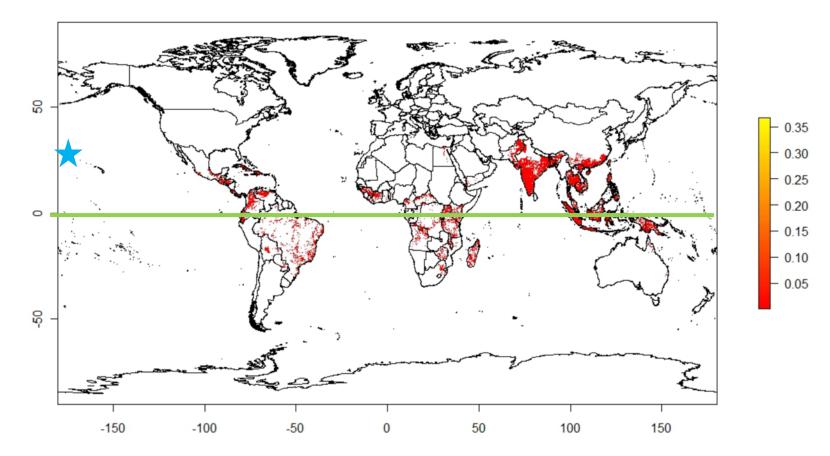
2,163



Musa sp. (banana)

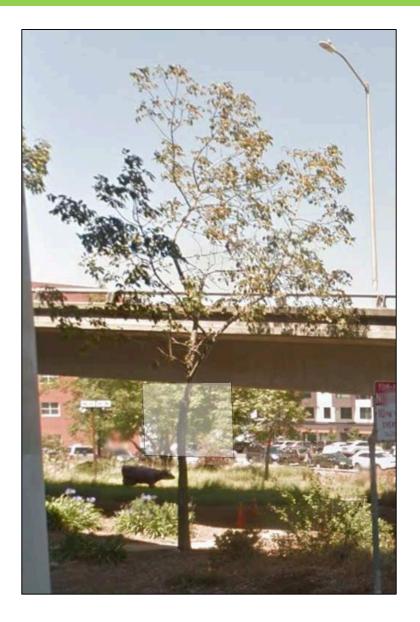


Banana range

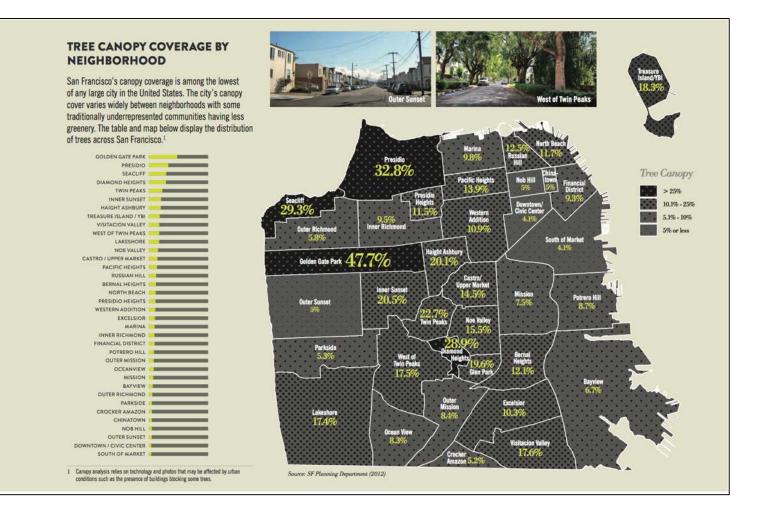


"Banana plants thrive in tropical regions where the average temperature is 80° F (27° C) and the yearly rainfall is between 78 and 98 inches."—BananaLink, a nonprofit cooperative

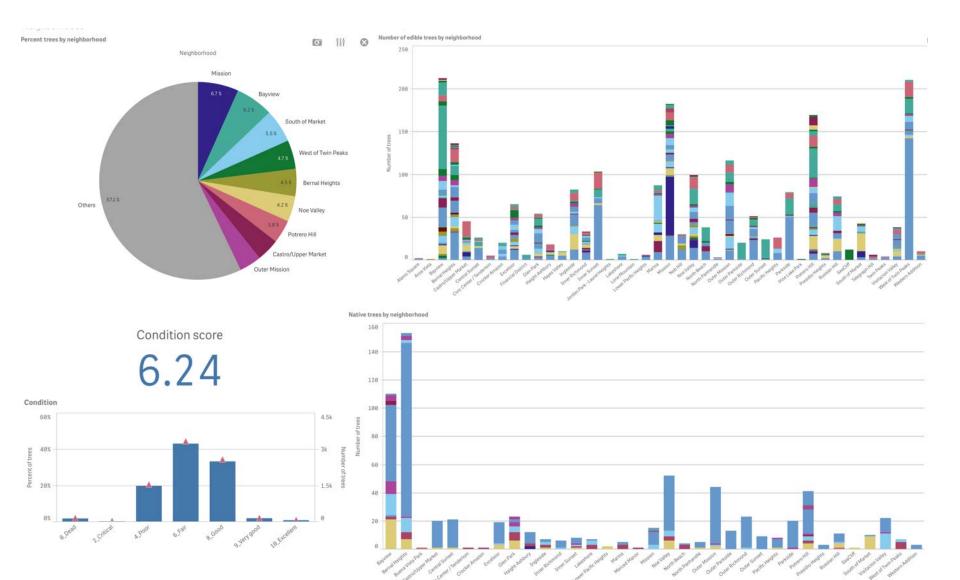
Mangifera indica



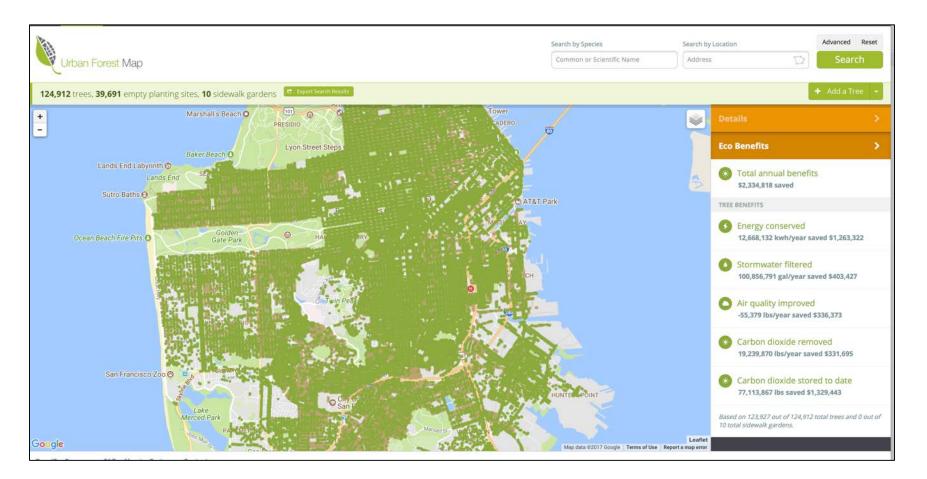








San Francisco Urban Forest Map



https://www.opentreemap.org/urbanforestmap/map https://urbanforestmap.org

Questions?



kelaine@urban-ecos.com



"Chance rules our lives, and the future is all unknown. Best live as we may, from day to day." --Sophocles

