

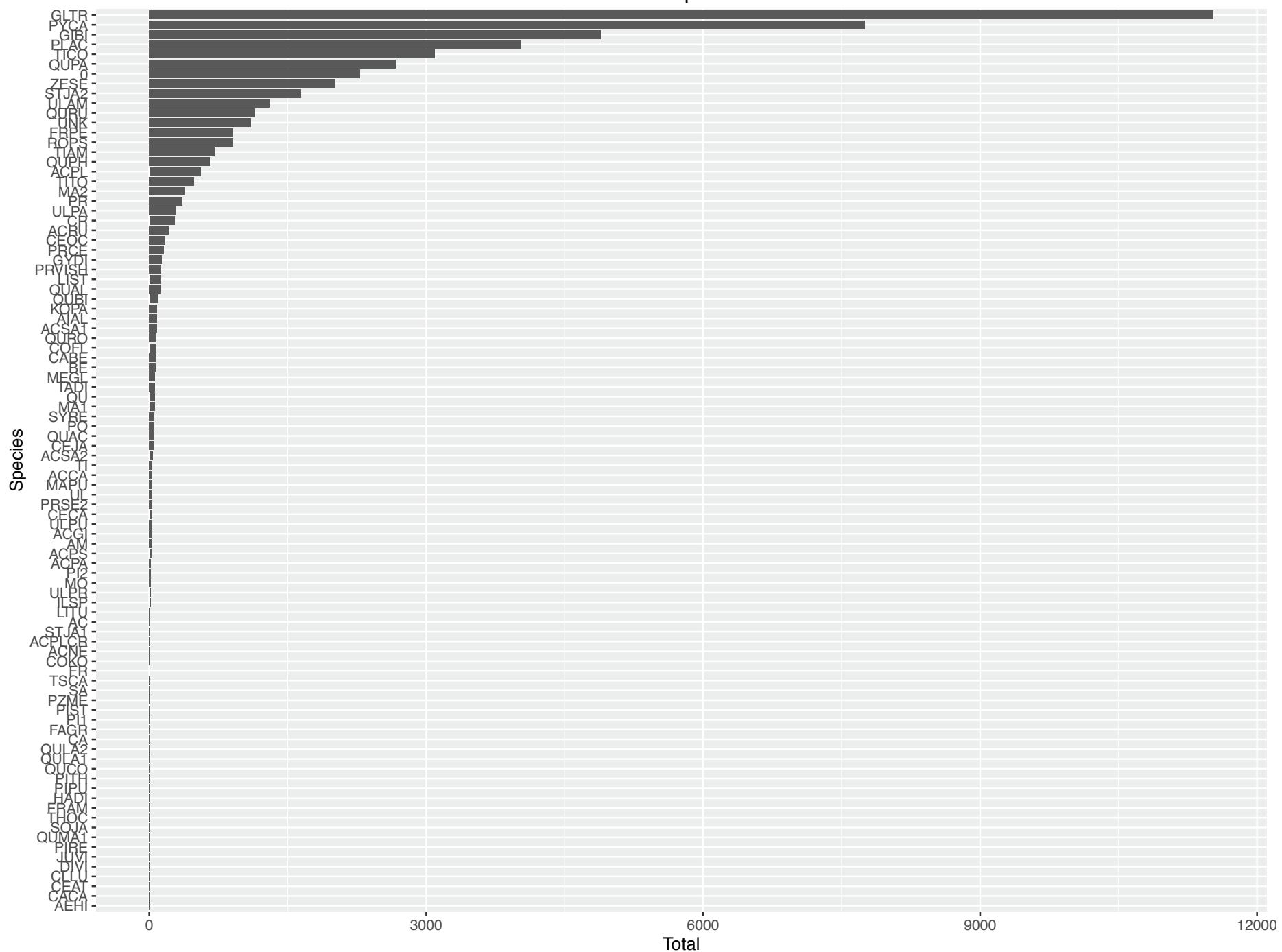


The Death and Life of Great American Street Trees

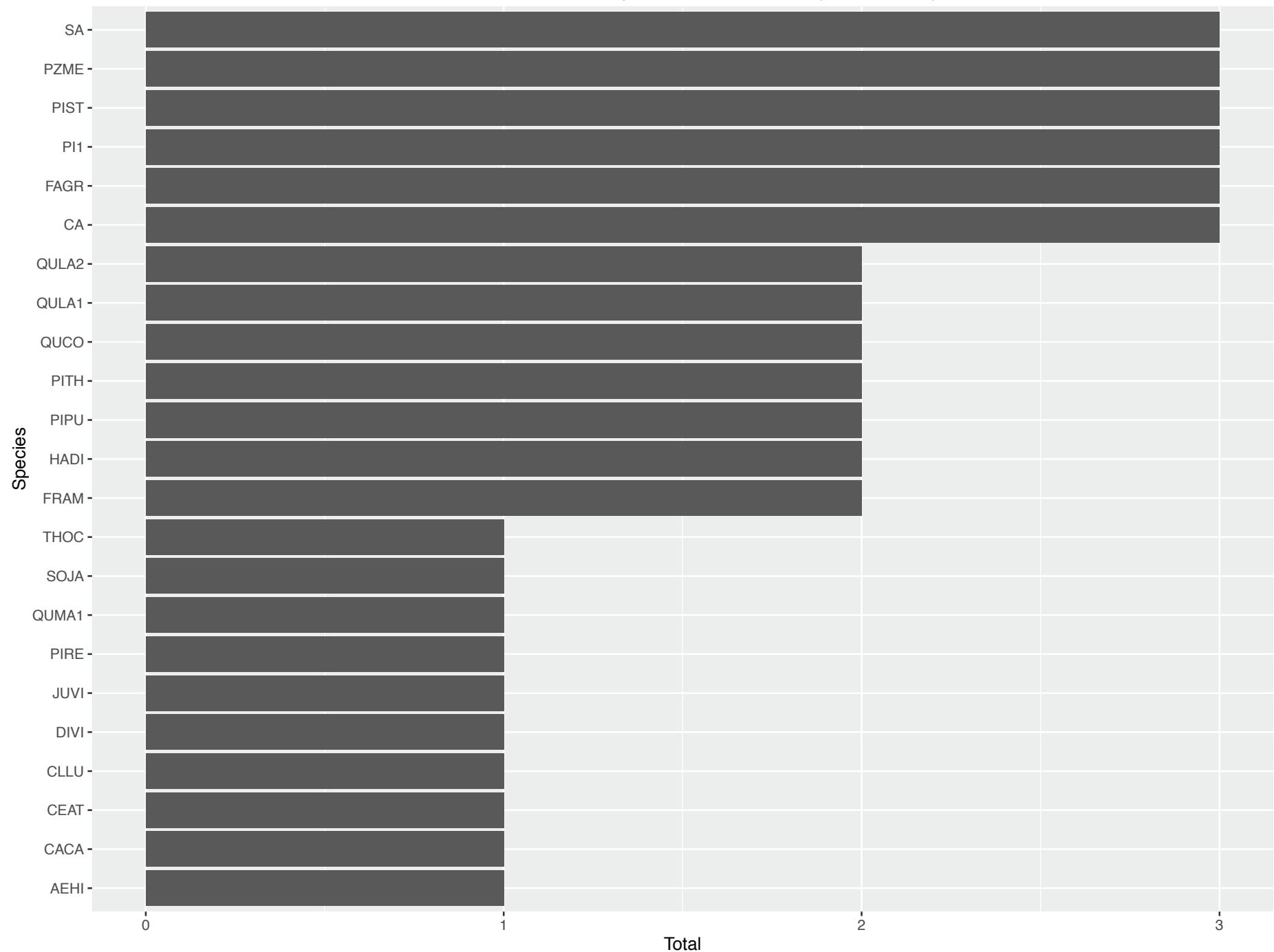
Some initial questions:

1. How many street trees are there in Manhattan?
2. How many different species live in Manhattan?
3. What is the distribution of these species?
4. What is the distribution of street trees per community district?
5. Is there a connection between median income in community districts to number of street trees?
6. What is the general condition of street trees in Manhattan?
7. Plot them on a map with community district outlines.
8. How does Manhattan compare to the other boroughs?
9. How does the 2016 count compare to previous years?
10. Is there a relationship between tree numbers and zoning districts?

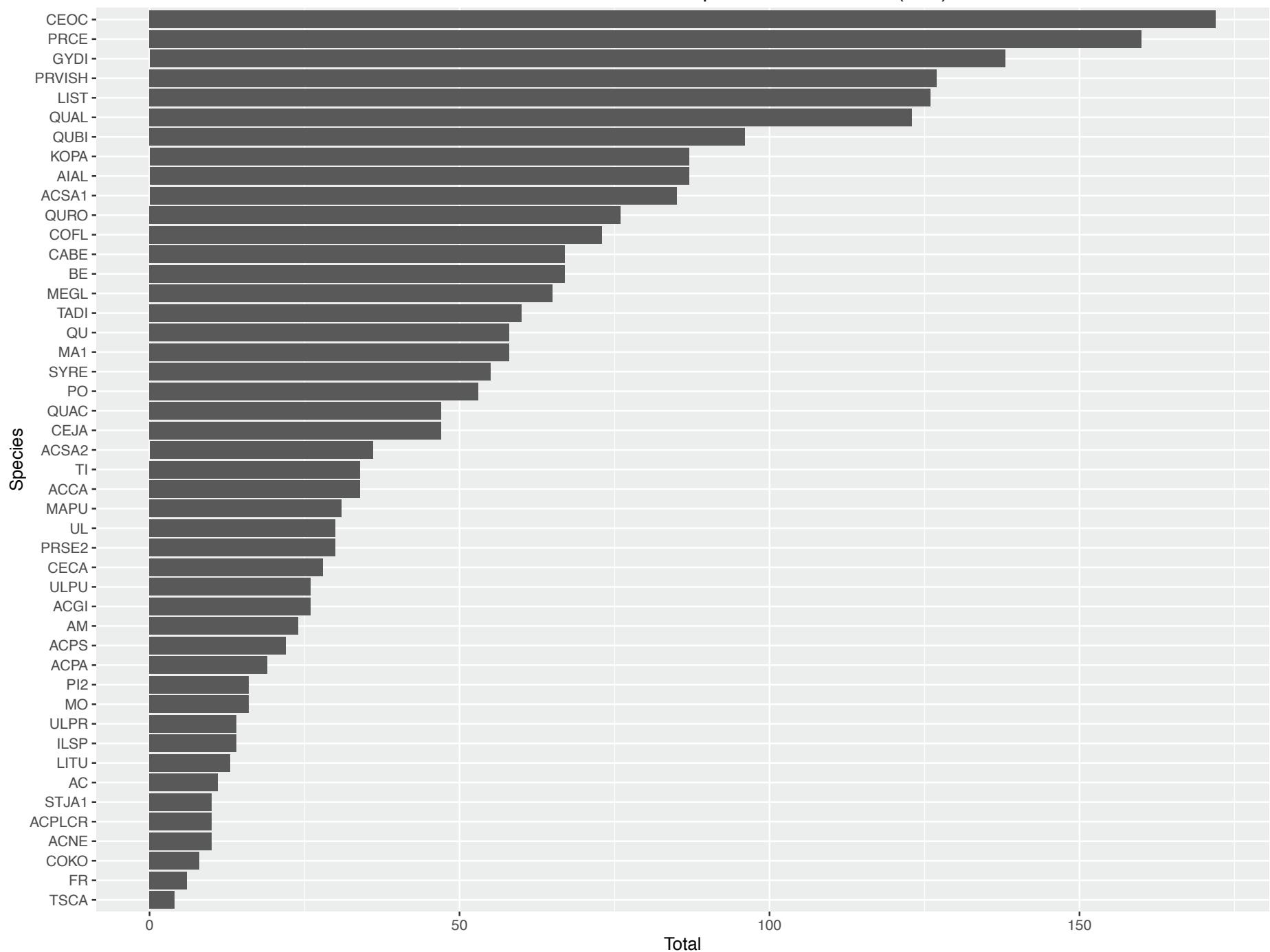
Distribution of Tree Species in Manhattan



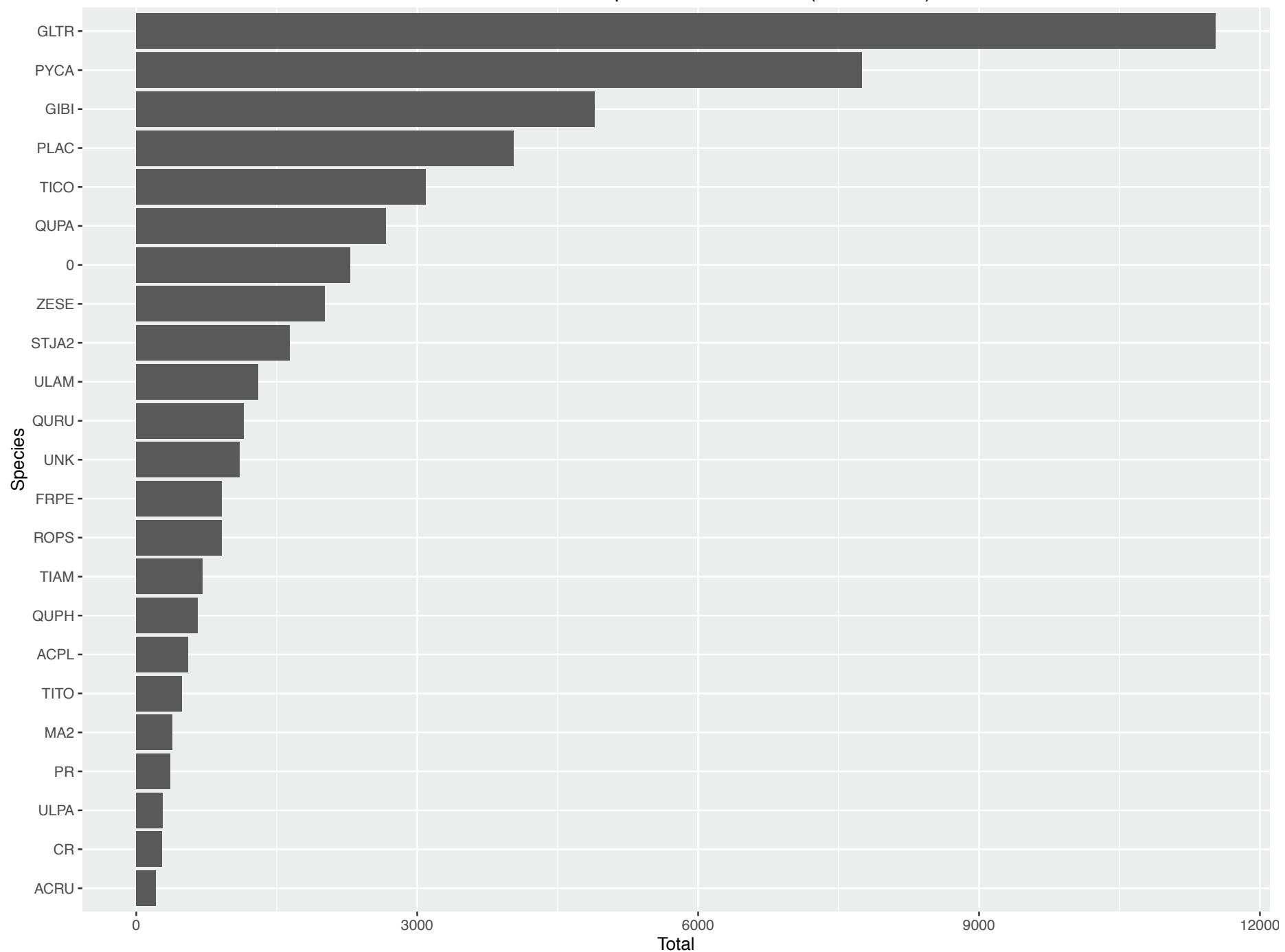
Distribution of Tree Species in Manhattan (1st Quartile)



Distribution of Common Tree Species in Manhattan (IQR)



Distribution of Tree Species in Manhattan (4th Quartile)

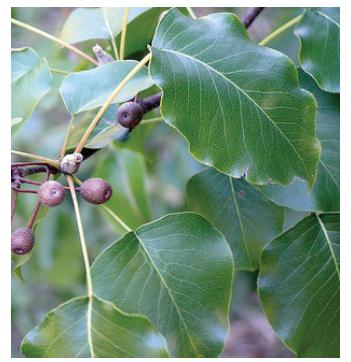


Gleditsia triacanthos
Honeylocust
Total: 11,529
22.3%



Pyrus calleryana
Ornamental Pear

Total: 7,751
15%



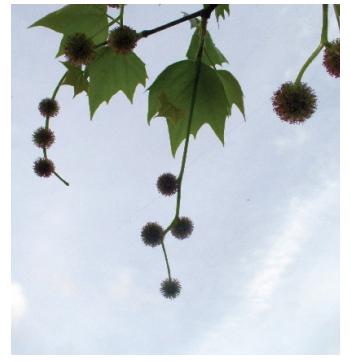
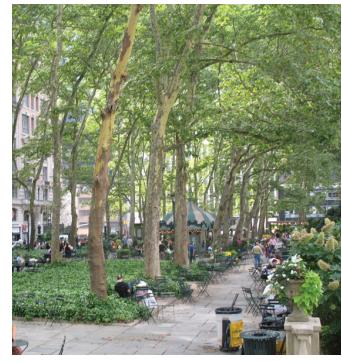
Ginkgo Biloba
Maidenhair Tree

Total: 4,893
9.47%

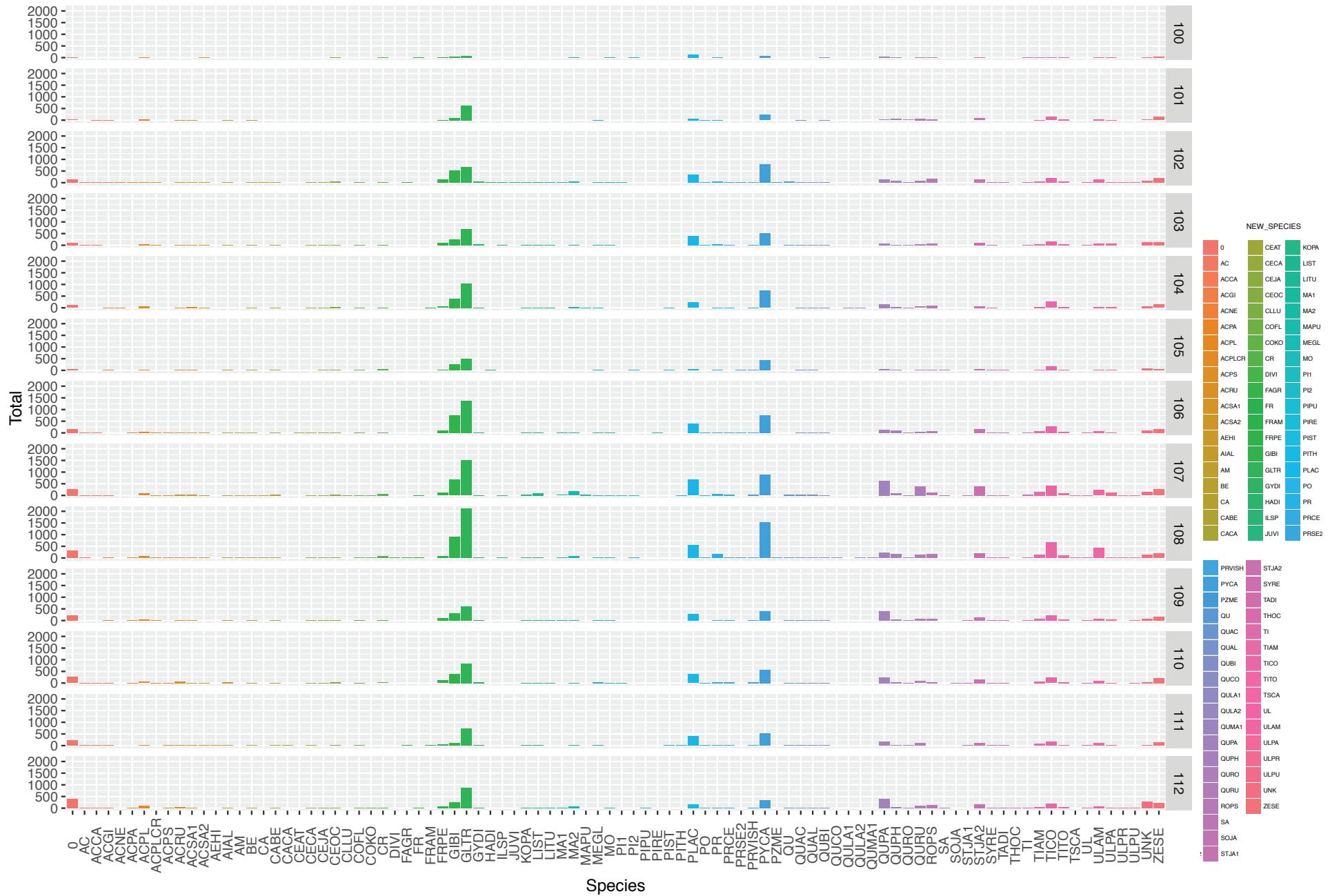


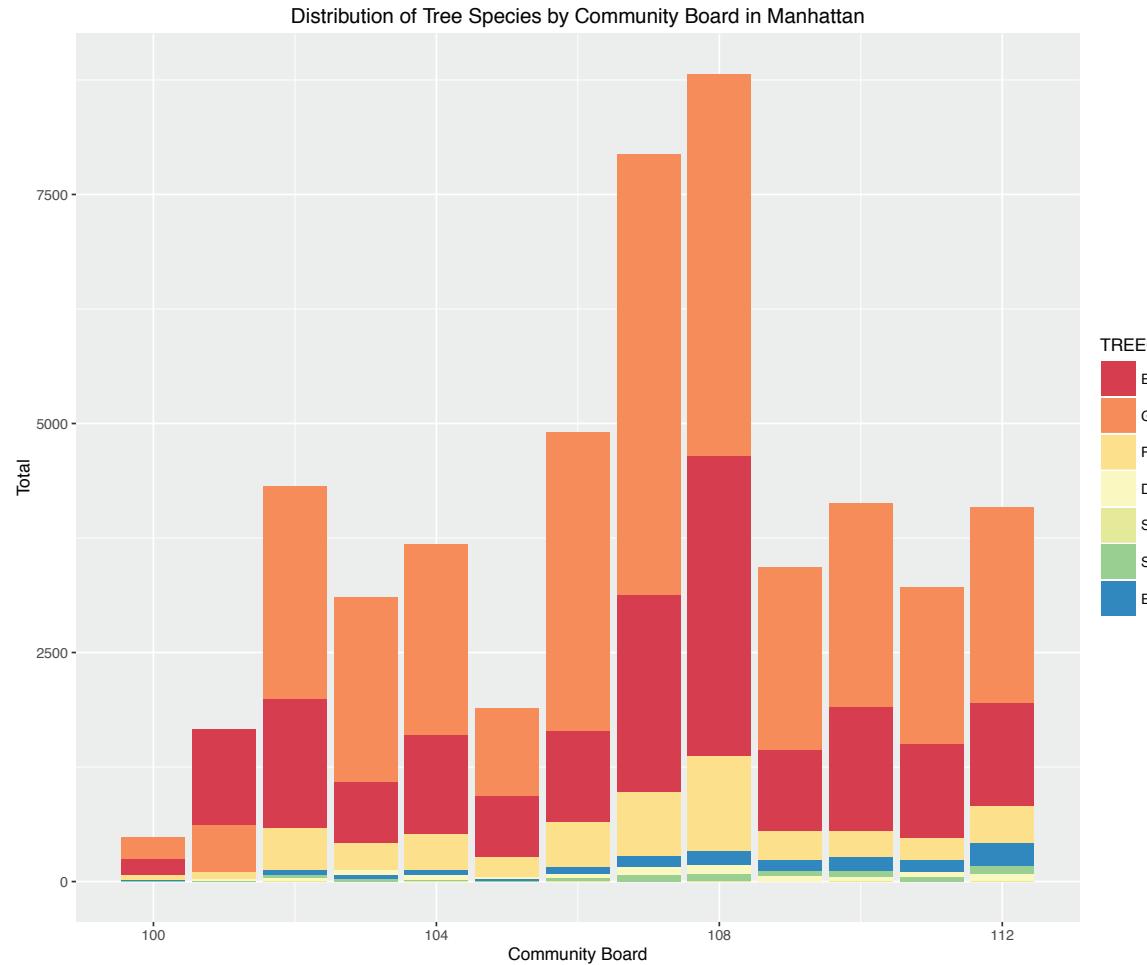
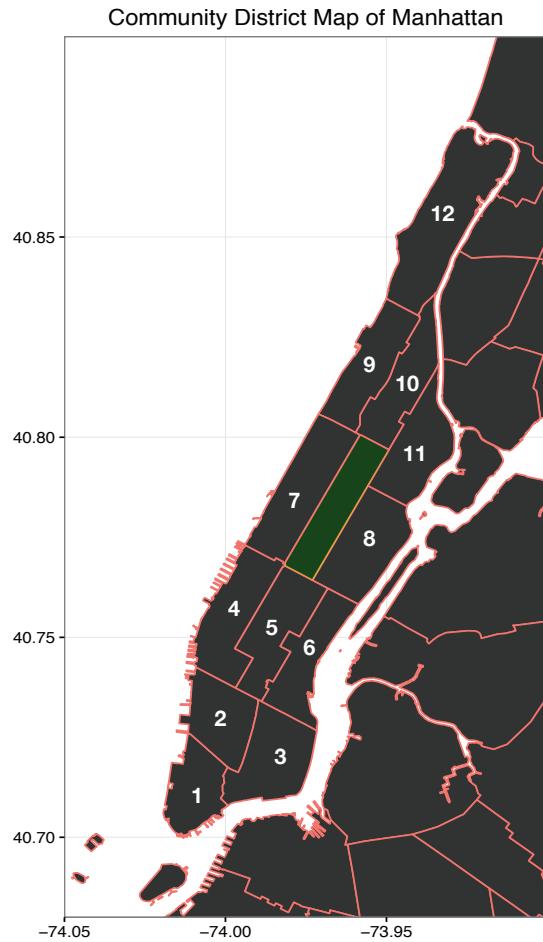
Platanus acerifolia
London plane

Total: 4,030
7.8%



Street Tree Distribution by Community District and Species





Excellent Full, well balanced crown and limb structure; leaves normal size color; no dead or broken branches; trunk solid, bark intact.

Good Crown uneven or misshapen; some mechanical damage to bark or trunk; some signs of insects or disease; leaves somewhat below normal size and quantity; some dead or broken branches (less than half of the tree).

Poor Large dead limbs with over one-half of the tree already dead or removed; large cavities; drastic deformities; leaves significantly below normal size and quantity; severe insect or disease damage.

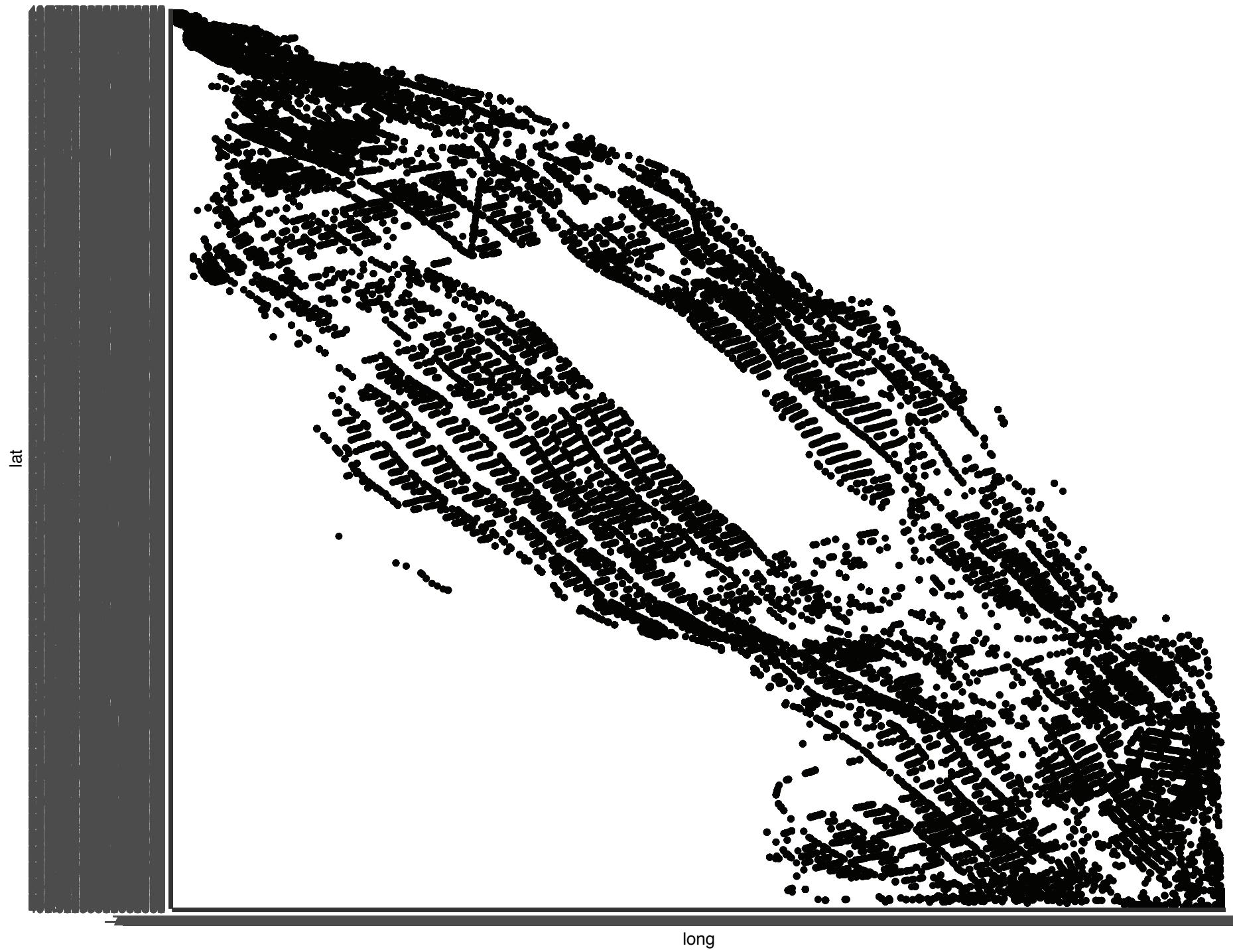
Dead Dead tree; leaves absent; twigs brittle.

Shaft All branches removed; trunk left standing; sprouts may or may not be evident.

Stump Stump shorter than breast height; leaves entirely absent or present only on stump sprouts.

Empty Tree Pit Nothing there at all.

attempting to map the points on a map...



What I would do next:

1. Map the trees in Manhattan by species over community district outlines.
2. Get economic data for each community district to see if there is a relationship between median income per CD and tree count.
3. Decipher species code to return genus, species, and common name.
4. Get data for other boroughs for comparison.
5. Look at topography to see if there is relationship between species condition and topography.
6. What are the economic benefits of trees?