



Wilsonville 2021 Street Tree Inventory Report:

An Update to the 2018 Street Tree Inventory

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1. Executive Summary

The City of Wilsonville 2021 Street Tree Inventory served to update the 2018 inventory and generate data to provide insights into better tree planning and management practices following the 2021 ice storm. In the 2021 street tree inventory each street tree (planted within approximately 15 ft of a curb) was mapped and assessed on several attributes including tree status (“Damaged, may need removal – follow-up required”, “Damaged, needs removal”, “No damage”, “Removed, no stump”, and “Removed, stump present”), diameter at breast height (DBH), health, distance to curb, species, and height. In this analysis, trees with status marked as “Damaged, May Need Removal”, “Damaged, Needs Removal” and “Removed, Stump Present” were associated with ice storm damage, as “Removed, No Stump” trees were assumed to have been ground down prior to the storm. To collect this data, the City’s assets management system “Cartegraph” was used to map and add attribute information for each tree. To assess trees at the neighborhood level, the City was divided into 10 neighborhood zones for this analysis ([See Appendix E.1, pg. 42](#)).

The data from the 2021 Street Tree Inventory was used to identify several trends in the Wilsonville street tree population. Specifically, an unexpectedly high number of trees with tree status marked “Removed, No Stump” was found. Citywide, the five species with the most trees removed were red maple (*Acer rubrum*), Callery pear (*Pyrus calleryana*), Norway maple (*Acer platanoides*), Japanese maple (*Acer palmatum*), and paper birch (*Betula papyifera*). While trees within the “Removed, No stump” tree status category were found throughout Wilsonville, particularly high densities of trees in this category were found in the Charbonneau and Meadows neighborhood zones ([See Appendix D, pg. 38](#)). In cases such as the red maple, Norway maple, and Japanese maple, the high amount of trees removed appear to be a product of the species’ large populations. Normalizing by population, species with the highest rates of removal were identified as paper birch (*Betula papyrifera*), cherry plum (*Prunus cerasifera*), silver birch (*Betula pendula*), and white spruce (*Picea glauca*) ([See Appendix B.3, pg. 26](#)). The data also revealed a high number of removed trees with a small DBH; 22.4% of removed trees were smaller than 1.5” and 51.66% smaller than 6”. However, 18.89% of removed trees were found in the 9 to 14” DBH range ([See Appendix C.3-4, pgs. 31-32](#)). Closer examination of the removed trees in this DBH range revealed above average removal rates for red maples (*Acer rubrum*), Callery pear (*Pyrus calleryana*), cherry plum (*Prunus cerasifera*), and honey locust (*Gleditsia triacanthos*) in the 9 to 14” DBH category. ([See Table 3-5, pgs. 10-11](#))

Looking at the “Damaged, May Need Removal”, “Damaged, Needs Removal”, and “Removed, Stump Present” tree status categories, potential correlations between specific attributes and susceptibility to ice storm damage were found. Normalized by population, the species most commonly found in these status categories were paper birch (*Betula*

papyrifera), cherry plum (*Prunus cerasifera*), silver birch (*Betula pendula*), Raywood ash (*Fraxinus oxycarpa*), and scarlet oak (*Quercus coccinea*). Zelkova was the only species within the ten most populous tree species that had a high storm damage rate ([See Appendix B.5, pg. 28](#)). In total, the red maple (*Acer rubrum*) species lost the greatest number of trees to ice storm damage followed by cherry plum (*Prunus cerasifera*), Callery pear (*Pyrus calleryana*), paper birch (*Betula papyrifera*), and Japanese zelkova (*Zelkova serrata*). Zones with the highest numbers of trees affected by ice damage include Morey's Landing/Rivergreen (249 trees), Villebois (183 trees), and Village at Main St./Daydream (161 trees) (See Appendices, E.22, pg. 62; E.6, pg. 43; E.40, pg. 40). Here it can be observed a disproportionate number of trees with a tree status associated with ice storm damage were found in the Morey's Landing/Rivergreen and Village at Main St./Daydream neighborhood zones.

Since the previous survey in 2018, 1,862 street trees were added and 2,531 street trees were removed. Focusing on neighborhood zones, trends among net gains and losses of street trees were observed. Neighborhood zones which recorded a net gain of street trees since 2018 included Industrial (+55), Frog Pond (+309), and Villebois (+309). Neighborhood zones which recorded the highest losses in descending order included Charbonneau (-376), Meadows (-313), and Morey's Landing/Rivergreen (-304) ([See Appendix D, pg. 40](#)). However, it should be noted that the Charbonneau and Villebois zones were found to have significantly greater populations than the other seven zones. In descending order, the most populous street tree zones included Villebois (4,792 trees present), Charbonneau (4,637 trees present), followed by Meadows (2,928 trees present).

2. Introduction and Background

This report is a summary of the methods and findings for the street tree inventory conducted by the Public Works Department interns between May 2021 and July 2021. This project is an update to a previous street tree inventory that was completed by the City in April of 2018. The goal of this inventory is to fulfill the general need for current tree data, the update was also prompted by the severe tree damage sustained during the 2021 ice storm. In February of 2021, an ice storm wreaked havoc on Wilsonville's urban forest by causing limbs to break off and tree trunks to split open. Many trees were destroyed during the storm while others were damaged beyond recovery. This report is an attempt to take stock of, and assess the damage to Wilsonville's street tree population. This report seeks to uncover trends in the characteristics of those trees that suffered damage in the storm and also provide a general overview of the changes in Wilsonville's street tree population since the last inventory was completed.

3. Data Collection Methods

For the previous inventory, any trees that fell within 20 feet of the curb were included as street trees. The distance to curb requirement was shortened to 15 feet for this inventory update, and some guidelines were outlined:

- *A street tree can be planted in the public right of way or planted on private property, any tree that is planted within the public right of way is a street tree regardless of distance to curb.*
- *Any trees that were intentionally planted along the side of a road for aesthetic or landscaping purposes may be classified as a street tree regardless of distance to curb.*
- *Trees that are part of a natural area and are within the 15 foot distance to the curb are generally not included in the street tree inventory.*
- *Any trees in a park would also be considered street trees if they fall within 15 feet of the curb.*

Data for all existing points (even those that fell outside of the 15 foot distance to curb) was updated, but only trees that met the updated street tree guidelines were added to the inventory.

The existing street tree data is stored in a geodatabase as a point feature layer which is integrated with the asset management system Cartegraph. The existing point layer is used as a reference for updating existing point attributes and new points were added to the layer for any newly planted trees or trees that were identified as street trees that had not

been previously included. The attribute used to classify tree change from the last inventory is "Tree status" with five possible values:

1. Damaged, may need removal – follow-up required
2. Damaged, needs removal
3. No damage
4. Removed, no stump
5. Removed, stump present

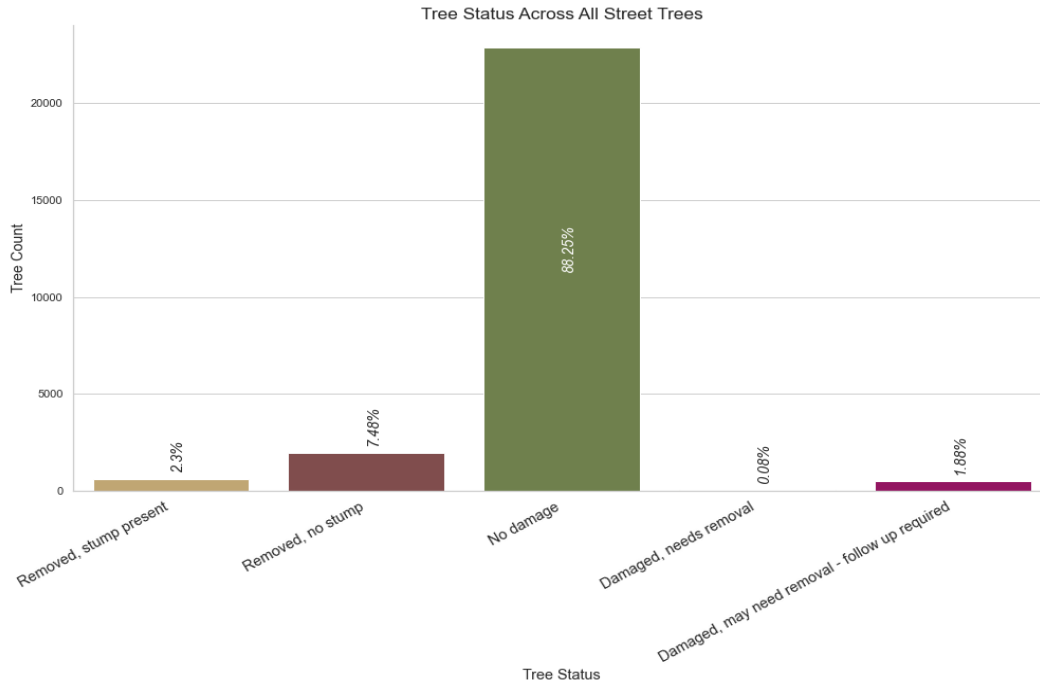
Other attributes updated for existing points and populated for new points were: Scientific Name, DBH (Diameter at Breast Height), Height, Health, Planter Width, and Distance to Curb. The possible values for the Health category included; Dead, Healthy, In Decline, or Stressed. A DBH tape measurer was used to collect trunk diameter values and a standard tape measurer to collect tree distance to curb values. Heights for newly collected trees were estimated using surrounding trees with existing height values as references. For trees replaced with a different tree, they were entered with a status of "removed, no stump", "retired" within Cartegraph, and replaced with a new point. Once all tree points in the City had been collected, any trees with missing attributes were identified, and the missing data was updated. Finally, a quality control process was performed. This process entailed each intern being assigned 1300 random trees the other intern had previously surveyed, representing approximately 10% of the total inventory. The assigned trees were reviewed for tree attribute consistency and updated with accurate information.

4. Results

General Tree Population

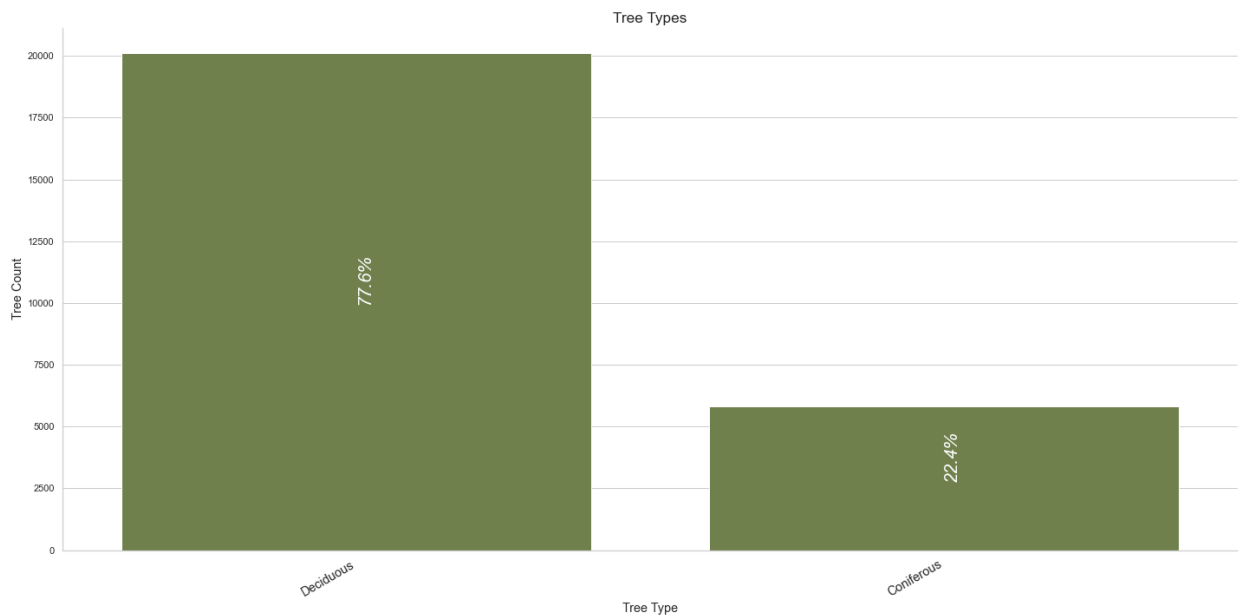
After updating and inventorying every street tree in Wilsonville, there were 25,998 data points. Of the total, 23,398 of those points represented trees that were still standing while 2,536 represented trees that had been removed. Of particular note, 7.46% of surveyed trees were classified as "Removed, no stump". This is significant because the lack of stump indicates that the trees were likely removed before the ice storm. Trees removed since the ice storm would most likely still have some evidence of removal or have a stump present. Street trees require a permit for removal, so there is a concern that trees were removed by citizens without having gone through the proper permitting process or without replacing removed trees when required. Figure 3-1 provides a more in depth look at tree statuses.

Figure 3-1



In general the City of Wilsonville does not plant coniferous street trees. While the City does not currently plant coniferous trees as street trees, many existing coniferous trees fell within the definition of a street tree and were included in the inventory, so it is worthwhile to gain an idea of the respective sizes for coniferous and deciduous trees. See Figure 3-2 for coniferous and deciduous tree populations.

Figure 3-2



In addition to updating existing points, new points were added. Oftentimes these were trees that had been planted since the last inventory was completed, though added points may have been missed during the first inventory. Overall, 1,862 new trees were added to the inventory.

Tree Genera

In order to get a general overview of Wilsonville's street tree population, statistics were gathered on both genus and species. The maple genus represented the largest proportion of street tree genera in Wilsonville at 30.12% of the total population. Other large populations of street trees included oak (*Quercus*) (9.03%), pine (*Pinus*) (4.53%), cherry (*Prunus*) (4.08%), ash (*Fraxinus*) (4.03%), pear (*Pyrus*) (3.97%), fir/spruce (*Pseudotsuga*) (3.51%), cypress (*Chamaecyparis*) (3.08%), zelkova (*Zelkova*) (2.81%), and cedar/arborvitae (*Thuja*) (2.59%).

[See Appendix A.1, pg. 18](#)

To get an idea of the quantity of trees removed the "Removed, no stump" and "Removed, stump present" categories were grouped together. It is no surprise maples had the most trees removed at 543 since they represent an exponentially larger portion of the street tree population than any other genus. Cherry (*Prunus*), pine (*Pinus*), birch (*Betula*), pear (*Pyrus*), oak (*Quercus*), cypress (*Chamaecyparis*), and spruce (*Picea*) all had at least 100 trees removed. [See Appendix A.2, pg. 19](#)

Besides looking at the number of trees removed, an analysis was done to see if any tree genera were removed at higher rates than others. Because there are a handful of tree genera that had very small populations, any trees with a population lower than 100 were filtered out. There are hundreds of tree genera that had very small populations and would have had a misleading 100% percent removal rate. By setting a 100 population cutoff, it avoided skewing the rates in favor of trees with low populations. The number of trees removed for each genus were normalized by the total number of trees for that genera to get the removal rate. The removal rate data could provide valuable insight to tree survivability in Wilsonville and help guide replanting efforts by letting decision-makers know which tree genera did not survive well since the last inventory.

The birch (*Betula*) trees did very poorly as they were removed at an alarmingly high rate of 37.95%. Fir (*Abies*) trees were also removed at a high rate while the rest of the genera had similar values. It is worth noting that the only tree genus that appeared in both the 10 most populous genera and the genera with the highest removal rates was cherry (*Prunus*). This means it was the only genus with a very high population that also had a high removal rate.

[See Appendix A.3, pg. 20](#)

This inventory was conducted almost three months after the damage caused by the ice storm, in some cases it was difficult to distinguish between damage caused by the storm and other

miscellaneous damage, especially for trees that had been removed. Since stump grinding and removing any trace of a removed tree is a timely process, it seemed unlikely that any “Removed, no stump” trees could have been removed due to the storm. Thus those trees were removed from consideration when examining storm damage. That left “Removed, stump present”, “Damaged, may need removal - follow up required”, and “Damaged, needs removal” as potential storm damage categories. These were the categories grouped together to calculate storm damage numbers. In total, 1,107 trees likely sustained damage caused by the ice storm. The most storm damaged genus was maple (*Acer*) with 247 trees damaged. Cherry (*Prunus*) and birch (*Betula*) also had a lot of damaged trees. [See Appendix A.4, pg.21](#)

In addition to storm damage numbers, storm damage rates were calculated for tree genera populations. Storm damage rates were calculated with the same population caveat as the removal rate analysis, so only genera with a population of at least 100 were considered. For each genus, the number of trees damaged by the storm were normalized for the genus total to get the storm damage rate.

Birch (*Betula*) trees had the highest rate of storm damage at 25.78%. It is noteworthy that the cherry (*Prunus*) (12.02%), zelkova (*Zelkova*) (8.37%), pear (*Pyrus*) (6.12%), and ash (*Fraxinus*) (5.74%) genera all appear in the high damage rate analysis since these are all trees that are in the 10 most populous genera. This is significant because not only were these genera damaged at a higher rate than other genera, but the damage to these genera is more impactful to the overall tree population since they represent a large portion of the population. [See Appendix A.5, pg. 22](#)

To get an idea of how the genus composition of street trees had changed since the last inventory, a summary of the trees added since the first inventory was done.

Once again the most common genera for trees added since the last inventory is the maple (*Acer*) genus. Given the previous removal and storm damage analyses, the maple (*Acer*) genus appears to be sturdy and resilient - it did not appear in the highest removal rates or highest storm damage rates despite representing 30% of the City’s street tree population. [See Appendix A.6, pg. 23](#)

Tree Species

To analyze how individual species populations changed since the first inventory in 2017, all the statistics that were calculated for the genera were repeated for species.

There are several species from the maple (*Acer*) genus represented in the top 10 species, including red maple (*Acer rubrum*), Japanese maple (*Acer palmatum*), and Norway maple

(*Acer platanoides*) [See Appendix B.1, pg. 24.](#) It is worth noting that the Japanese maple (*Acer palmatum*) represents a large proportion of the maples since these are generally trees with small diameters and heights, and therefore may not require permitting for removal and could have been removed during landscaping projects. Analysis shows that those genera with a higher species diversity (maple (*Acer*), oak (*Quercus*)) represent a smaller fraction of the population when represented by species rather than genus, while those genera with lower species diversity (pear (*Pyrus*), zelkova (*Zelkova*), fir/spruce (*Pseudotsuga*)) are consistent between species and genus population analyses. By splitting the genera into species, removal and damage rates will more precisely represent the lower diversity species' performance against those genera with a higher species diversity.

Once again, the numbers provide a good overview for total amounts of trees removed, but in this case, they provide some preliminary insight into which tree species were disproportionately removed. It is noteworthy that the Callery pear (*Pyrus Calleryana*) were the second most removed despite being only the fifth most populous tree species. It was also observed that paper birch (*Betula Papyrifera*) is the fifth most removed even though it did not appear at all in the most populous species. A similar trend can be observed in the cherry plum (*Prunus Cerasifera*) and ornamental cherry (*Prunus*) species. [See Appendix B.2, pg. 25](#)

The same normalization and filtering logic was used for the tree species analysis as the genus analysis. This tree species removal analysis mirrors some of the findings of the genus analysis: the birch (*Betula*) and cherry (*Prunus*) genera are each represented twice within the top removal rates. The paper birch (*Betula Papyrifera*) fared terribly with a 50.55% removal rate. It is also worth noting that 5 of the top ten removal rate species are coniferous trees which are not planted by the City of Wilsonville [See Appendix B.3, pg. 26.](#) Anecdotally, many of the coniferous trees surveyed were small in height and diameter meaning they could easily be removed by homeowners and landscapers.

Again, the same criteria as the genus analyses were used to examine storm damage. As to be expected, red maple (*Acer Rubrum*) tops the list once more with 173 trees removed, but cherry plum (*Prunus Cerasifera*) (70 trees removed) and two birch (*Betula papyrifera*, 62 trees removed & *Betula pendula*, 29 trees removed) species appear in this damage analysis despite not being in the most populous species. Callery pear (*Pyrus calleryana*) moved up the rankings to the third most removed species with 63 trees removed. [See Appendix B.4, pg. 27](#)

The damage rates for species are similar to the genus damage rates, with a few notable exceptions. Paper birch (*Betula papyrifera*) topped that list with a 34.07% removal rate. Cherry plum (*Prunus cerasifera*) had the second highest removal rate at 26.02%, and silver birch (*Betula Pendula*) was removed at 16.29%. The willow (*Salix*), alder (*Alnus*), and hawthorn (*Crataegus*) genera are not represented in this species analysis. This makes sense since splitting the genera up by species will give genera with high damage rates more spots

in the top 10 species and move other species down. Cherry (*Prunus*), birch (*Betula*), zelkova (*Zelkova*), oak (*Quercus*), and ash (*Fraxinus*) are all constantly appearing in the top damaged categories. [See Appendix B.5, pg. 28](#)

Diameter at Breast Height Statistics

The inventory also served to uncover any tree status trends related to DBH (Diameter at Breast Height), especially since tree DBH is a factor in the City's tree removal permitting process. Notably, there are significant spikes in the lower DBH ranges for the "No damage" and "Removed, no stump" categories. This spike is less pronounced in the "Removed, stump present" category. See Figure 3-3.

This suggests a large portion of the current street tree population has a low DBH and this same trend is reflected in the trees removed without a stump. This makes sense since any trees with a large DBH require more effort and money for stump grinding. Also trees with smaller DBH's often do not require a permit to remove.

Figure 3-3

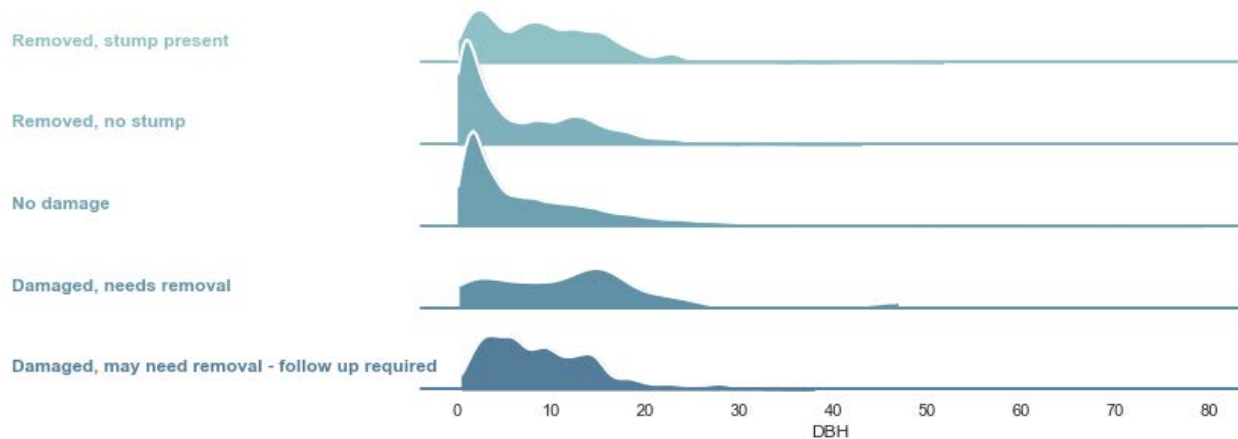
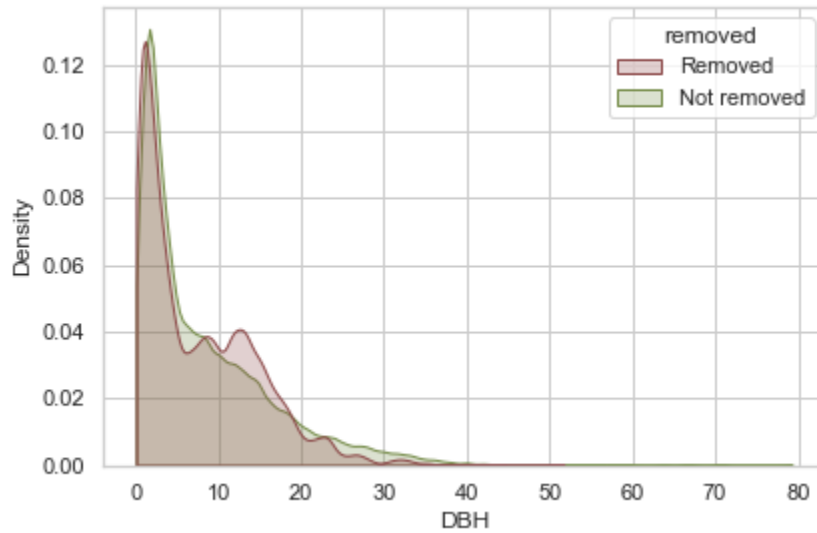


Figure 3-4 demonstrates the general shape of the data for removed trees versus not removed trees. The removed category has a similar shape to the not removed category, besides a small peak around the 9-14 DBH range. This deviation in data may have been caused by overrepresentation and high rates of removal of red maple (*Acer rubrum*), Callery pear (*Pyrus Calleryana*), honey locust (*Gleditsia triacanthos*), and cherry plum (*Prunus cerasifera*) in the 9 to 14 DBH range:

Figure 3-4



Red maple (*Acer rubrum*) comprises 17.7% of the tree species in the 9 to 14 DBH range, compared to the 10.83% they comprise of overall street tree population. Red maple (*Acer rubrum*) and Callery pear (*Pyrus calleryana*) make up more than a quarter of the trees in the 9 to 14 DBH range. Notably, Callery pear (*Pyrus calleryana*), honey locust (*Gleditsia triacanthos*), and cherry plum (*Prunus cerasifera*) represented significantly larger proportions of removed trees in the 9 to 14 DBH range than their respective population proportions for the same DBH range. Red maple (*Acer rubrum*), Callery pear (*Pyrus calleryana*), honey locust (*Gleditsia triacanthos*), and cherry plum (*Prunus cerasifera*) were removed at higher rates in the 9 to 14 DBH range than they were as species' overall See Table 3-5. Based on this discrepancy in removal rates, it can be concluded that all four of these species were more susceptible to being removed in the 9 to 14 DBH range than they were as a species overall. The highest concentration of removed trees in the 9 to 14 DBH range was in the Canyon Creek neighborhood in the north east sector of the City with other significant hotspots in Village at Main Street, Brown Road around Tranquil Park, and Morey's Landing. [See Appendix C.2, pg.30](#)

Table 3-5

Scientific Name	Percent of Trees in 9-14 DBH Range	Percent of Removed Trees in 9-14 DBH Range	Removal Rate in the 9-14 DBH Range	Overall Species Removal Rate
Acer Rubrum (Red Maple)	17.7%	17.5%	11.7%	7.6%
Acer Platanoides (Norway Maple)	15.3%	8.4%		
Pyrus Calleryana (Callery Pear)	8.2%	11.06%	15.9%	12.5%
Quercus Rubra (Red Oak)	4.8%	1.5%		
Pseudotsuga menziesii (Douglas Fir)	3.8%	1.3%		
Zelkova Serrata (Japanese Zelkova)	3.2%	1.7%		
Thuja Plicata (Western Red Cedar)	2.8%	1.0%		
Prunus cerasifera (Cherry Plum)	2.3%	9.0%	46.2%	33.83%
Gleditsia Triacanthos (Honey Locust)	2.1%	4.6%	25.6%	16.1%
Platanus Occidentalis (American Sycamore)	2.1%	0%		
Fraxinus Pennsylvanica (Green Ash)	1.9%	3.5%		
Other	35.8%	40.44%		

City Wide Spatial Trends

One purpose of this analysis is to identify specific areas which experienced high amounts of tree damage or removals. To illustrate the density of trees per status category, a series of heat maps were created [See Appendix D, pgs. 33-40](#). Density was calculated using the ArcGIS Pro's Kernel Density tool for three categories: damaged (including both damaged, may need removal and damaged, needs removal), removed with no stump, and removed with stump present. In this analysis, both damaged categories were combined onto the same map due to the low number of trees marked as damaged, needs removal. To isolate each category, trees were selected in ArcGIS Pro by their tree status attribute and all trees with null (or "0") values for DBH and scientific name were filtered out to allow for further species and tree size analysis.

Viewing citywide heat maps of the trees marked as damaged, removed with stump present, and removed with no stump, some clear high density areas can be identified. Trees marked as "Damaged, May Need Removal" or "Damaged, Needs Removal" were highly concentrated in the Village at Main Neighborhood as well as Villebois. Trees marked as "Removed, Stump Present" were highly concentrated in Rivergreen as well as Village at Main. Trees marked as "Removed, No Stump" were most highly concentrated in Charbonneau and Wilsonville Meadows [See Appendix D, pgs. 33-40](#). More detailed maps and statistics for Neighborhood Zones are available in the Neighborhood Maps section of this report.

A heat map was also created for newly added trees to illustrate areas of the City that had high concentrations of replanted trees. Newly added trees were concentrated in the Frog Pond neighborhood and some sections of Villebois. These are two areas that had recent housing developments constructed.

Neighborhood Zones

To gain more detailed insights regarding the spatial distribution of street tree attributes, the street tree data was separated into 10 zones. The zones include:

- Industrial
- Elligsen/Canyon Creek
- Frog Pond
- Meadows
- Village at Main St./Daydream
- Morey's Landing/Rivergreen
- Town Center
- Villebois
- Charbonneau

[See Appendix E.1, pg. 42](#)

In terms of overall tree population, the Charbonneau and Villebois zones had distinctly greater numbers of street trees, Villebois being the most populous zone. The Charbonneau Zone also had the highest total number of street trees marked "Removed, No Stump", followed by the Meadows Zone (the third highest in overall population) and Morey's Landing (the fourth highest in overall population). The Villebois Zone had the greatest number of street trees marked "Damaged, May Need Removal", followed by Morey's Landing/Rivergreen, and Village at Main St/Daydream. The Morey's Landing/Rivergreen Zone contained the highest number of trees marked "Removed, Stump Present" followed by the Village at Main St/Daydream Zone, and Charbonneau. [See Appendix E.2-5 pg.43-45](#)

Villebois Zone

As the most populous street tree zone, Villebois contained the greatest number of trees marked "Damaged, May Need Removal". In descending order, the most damaged species in the Villebois Zone included Japanese zelkova (*Zelkova Serrata*), scarlet oak (*Quercus Coccinea*), and red maple (*Acer Rubrum*) [See Appendix E.10, pg. 48](#). The most common species marked "Removed, No Stump" included Nootka cypress (*Chamaecyparis Nootkatensis*), red oak (*Quercus Rubra*) and black hawthorn (*Crataegus Douglasii*) [See Appendix E.8, pg. 47](#). The DBH of trees marked "Removed, No Stump" skewed positively, with most trees falling within the 0-2" range [See Appendix E.9, pg. 47](#). The Villebois Zone's most common species overall included red maple (*Acer Rubrum*), Japanese zelkova (*Zelkova Serrata*), and tulip (*Liriodendron Tulipifera*). [See Appendix E.7, pg. 46](#)

[See Appendix E, pg. 49-51, 107, for all Villebois Zone Tree Status Maps](#)

Charbonneau Zone

As the second most populous street tree zone, Charbonneau contained the greatest number of trees marked "Removed, No Stump". A particularly high density of "Removed, No Stump" trees can be observed on SW Old Farm Rd and SW Arbor Glenn Loop in the northeast corner of the zone [See Appendix E.20, pg. 57](#). The DBH of trees marked "Removed, No Stump" was also positively skewed, the majority of trees removed falling in the 0-4" range [See Appendix E.17, pg. 54](#). The most commonly found species marked "Removed, No Stump" included hinoki cypress (*Chamaecyparis Obtusa*), Japanese maple (*Acer Palmatum*), and dwarf blue Scotch pine (*Pinus Sylvestris "Glauca Nana"*) [See Appendix E.16, pg. 54](#). Charbonneau's overall most common species included northern red oak (*Quercus Rubra*), Japanese maple (*Acer Palmatum*), and hinoki cypress (*Chamaecyparis Obtusa*) [See Appendix E.15, pg. 53](#).

[See Appendix E, pg. 55-57, 108, for all Charbonneau Zone Tree Status Maps](#)

Meadows Zone

As the third most populous street tree zone, the Meadows area contained a similarly high density of trees marked "Removed, No Stump" to the Charbonneau Zone. However, unlike Charbonneau the Meadows Zone had a much greater number of trees marked "Removed, No Stump" with a DBH larger than 2" [See Appendix E.24, pg. 60](#). The Species most commonly marked "Removed, No Stump" in the Meadows zone included western red cedar (*Thuja Plicata*), paper birch (*Betula Papyrifera*), and green ash (*Fraxinus Pennsylvanica*) [See Appendix E.23, pg. 60](#). The overall most common species in the Meadows Zone included red maple (*Acer Rubrum*), Japanese maple (*Zelkova Serrata*), and tulip (*Liriodendron Tulipifera*). [See Appendix E.22, pg. 59](#).

[See Appendix E, pg. 61-63, 109, for all Meadows Zone Tree Status Maps](#)

Morey's Landing/Rivergreen Zone

As the fourth most populous street tree zone, Morey's Landing/Rivergreen contained the third highest number of trees marked "Removed, No Stump", the second highest number of trees marked "Damaged, May Need Removal", and the highest number of trees marked "Removed, Stump Present". One of the highest densities of street trees marked "Removed, Stump Present" can be found in the northeast corner of Rivergreen. [See Appendix E.35, pg. 69](#).

Species most commonly marked "Removed, Stump Present" include Callery pear (*Pyrus Calleryana*), cherry plum (*Prunus Cerasifera*), and Scotch pine (*Pinus Sylvestris*) [See Appendix E.32, pg. 67](#). The DBH of these trees were fairly varied with a substantial portion greater than 6" [See Appendix E.33, pg. 67](#). The most common species among trees marked as "Removed, No Stump" included Callery pear (*Pyrus Calleryana*), cherry plum (*Prunus Cerasifera*) and Japanese maple (*Acer Palmatum*) [See Appendix E.31, pg. 66](#). The most common species among trees marked as "Damaged, May Need Removal" were red maple (*Acer Rubrum*), Callery pear (*Pyrus Calleryana*), and eastern redbud (*Cercis Canadensis*). [See Appendix E.30, pg. 66](#). The occurrence of Callery pear (*Pyrus Calleryana*) can be seen in all three top damaged and removed species lists.

[See Appendix E, pg. 69-71, 110 for all Morey's Landing Zone Tree Status Maps](#)

Town Center Zone

As the fifth most populous street tree zone, the Town Center area had comparatively low densities of street trees damaged or removed. The most common trees found in the Town Center zone were red maple (*Acer Rubrum*), Norway maple 'Emerald Queen' (*Acer Platanoides*), and northern red oak (*Quercus Rubra*) [See Appendix E.39, pg. 73](#). Most trees marked "Removed, No Stump" were smaller than 4" DBH and red maple (*Acer Rubrum*),

cherry plum (*Prunus Cerasifera*), and Callery pear (*Pyrus Calleryana*) were the most common species in that category [See Appendix E.40-41, pg. 74.](#)

[See Appendix E, pg. 75-77, 111, for all Town Center Zone Tree Status Maps](#)

Industrial Zone

As the sixth most populous street tree zone, the Industrial zone contained a low number of street trees considering it covers the largest geographic area. As a result, the density of each tree status category ("No Damage", "Damaged, May Need Removal", etc.) was comparatively low. However, one notable aspect of the industrial zone was the high number of trees marked "Removed, No Stump" with a DBH greater than 4" [See Appendix E.48, pg. 80.](#) The most common species found in the Industrial zone were common Norway maple (*Acer Platanoides*), 'Crimson King' Norway maple (*Acer Platanoides*), and red maple (*Acer Rubrum*) [See Appendix E.46, pg. 79.](#)

[See Appendix E, pg. 81-83, 112 for all Industrial Zone Tree Status Maps](#)

Village at Main St/Daydream Zone

The seventh most populous street tree zone, the Village at Main St/Daydream area contained the second highest number of trees marked "Removed, Stump Present" and the third highest number of trees marked "Damaged, May Need Removal". A particularly dense cluster of both categories can be found in the Village at Main Street neighborhood on Thomas St. in the northwest quadrant of the zone [See Appendix E.58, pg.88.](#) The most commonly found species in this zone were red maple (*Acer Rubrum*), Douglas fir (*Pseudotsuga Menziesii*), and Callery pear (*Pyrus Calleryana*) [See Appendix E.53, pg. 85.](#) The most common species marked in both the "Damaged, May Need Removal" and "Removed, Stump Present" categories were red maple (*Acer Rubrum*), Raywood ash (*Fraxinus Oxycarpa*), and green ash (*Fraxinus Pennsylvanica*) [See Appendix E.56-57, pg. 87.](#) Here the DBH range for trees marked "Removed, No Stump" also included a significant number of trees greater than 4" [See Appendix E.55, pg. 86.](#)

[See Appendix E, pg. 88-90, 113, for all VM./Daydream Zone Tree Status Maps](#)

Elligsen/Canyon Creek Zone

The eighth most populous street tree zone, the Elligsen/Canyon Creek area is notable for its high density of trees marked "Removed, No stump", found on Thorton Drive and Roanoake Drive in the Canyon Creek neighborhood [See Appendix E.67, pg. 96.](#) The most common species found in this tree status category were red maple (*Acer Rubrum*), Japanese maple (*Acer Palmatum*), and dwarf Scotch pine (*Pinus Sylvestris "glauca nana"*) [See Appendix E.63, pg. 93.](#) The DBH of trees marked "Removed, No Stump" were predominately smaller than 2" although a significant number of trees fell within the 12-14" range [See Appendix E.64, pg. 93](#)

Overall, the most common species in the Elligsen/Canyon Creek zone were red maple (*Acer Rubrum*), ginkgo (*Ginkgo Biloba*), and northern red oak (*Quercus Rubra*) [See Appendix E.62, pg. 92.](#)

[See Appendix E, pg. 94-96, 114 for all Elligsen/CC Zone Tree Status Maps](#)

Old Town

The ninth most populous in street trees, the Old Town area had a low density of street trees overall. The most common trees found in the Old Town zone included Douglas fir (*Pseudotsuga Menziesii*), red maple (*Acer Rubrum*), and Callery pear (*Pyrus Calleryana*) [See Appendix E.69, pg. 98.](#)

[See Appendix E, pg. 100-102, 115 for all Elligsen/CC Zone Tree Status Maps](#)

Frog Pond

The least populous in street trees, the Frog Pond area also had a low density of overall street trees. At the time of the 2021 tree survey, new construction was underway on several residential blocks in Frog Pond. All street trees marked removed, no stump were identified as Oregon white oak (*Quercus Garryana*).

[See Appendix E, pg. 105, 116 for all Frog Pond Zone Tree Status Maps](#)

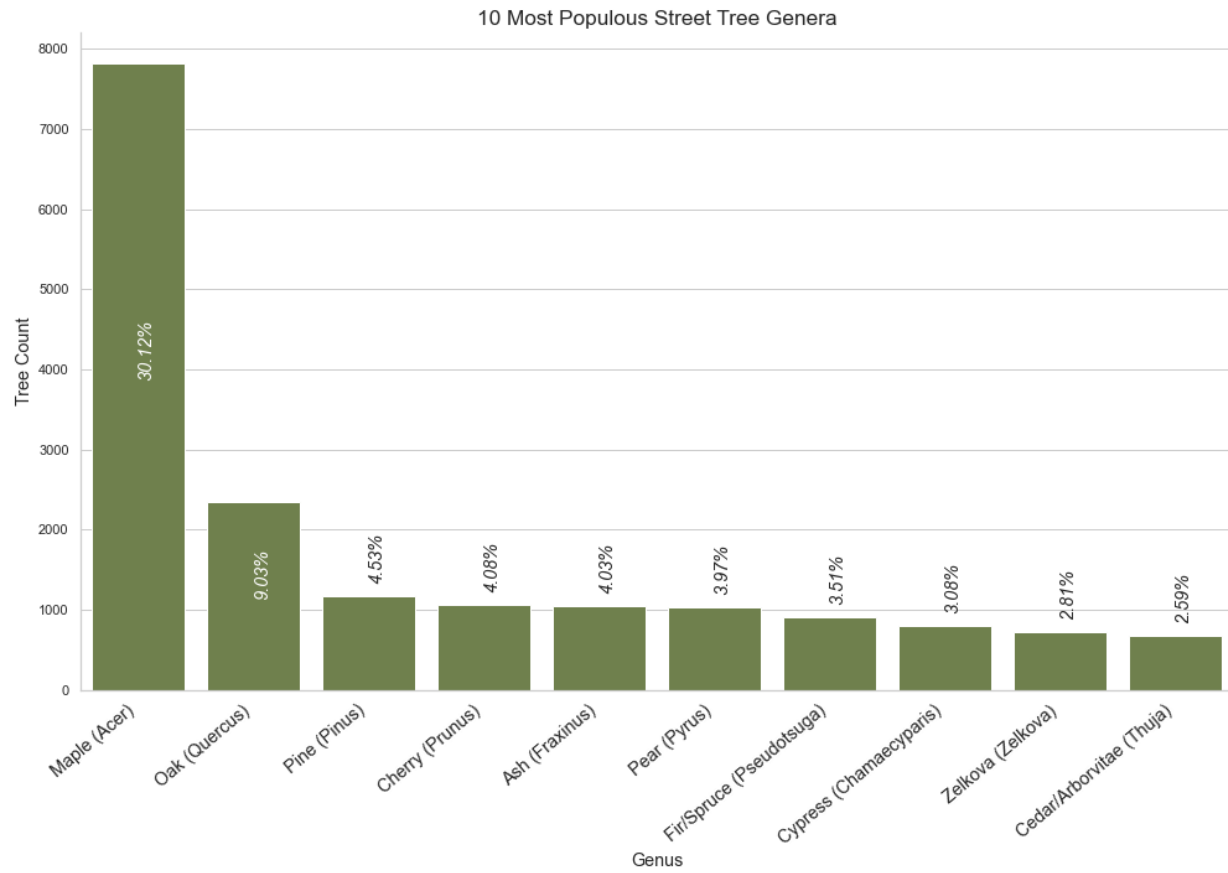
5. Summary Points

- 2,536 trees were removed and 1,862 trees were added to the inventory since the last inventory.
- The most common tree species are red maple (*Acer rubrum*), Norway Maple (*Acer platanoides*), and red oak (*Quercus rubra*).
- Tree species that had the most trees added were red maple (*Acer Rubrum*), Japanese maple (*Acer Palmatum*), and incense cedar (*Calocedrus Decurrens*)
- The tree species that were removed at the highest rate were paper birch (*Betula Papyrifera*), cherry plum (*Prunus Cerasifera*), silver birch (*Betula Pendula*), white spruce (*Picea Glauca*), and ornamental cherry (*Prunus*)
- The tree species that suffered ice storm damage at the highest rates were paper birch (*Betula Papyrifera*), cherry plum (*Prunus Cerasifera*), silver birch (*Betula Pendula*), Raywood ash (*Fraxinus Oxycarpa*), and scarlet oak (*Quercus coccinea*).
- Street tree population DBH distribution had high density in the 0 to 1.5 DBH range.

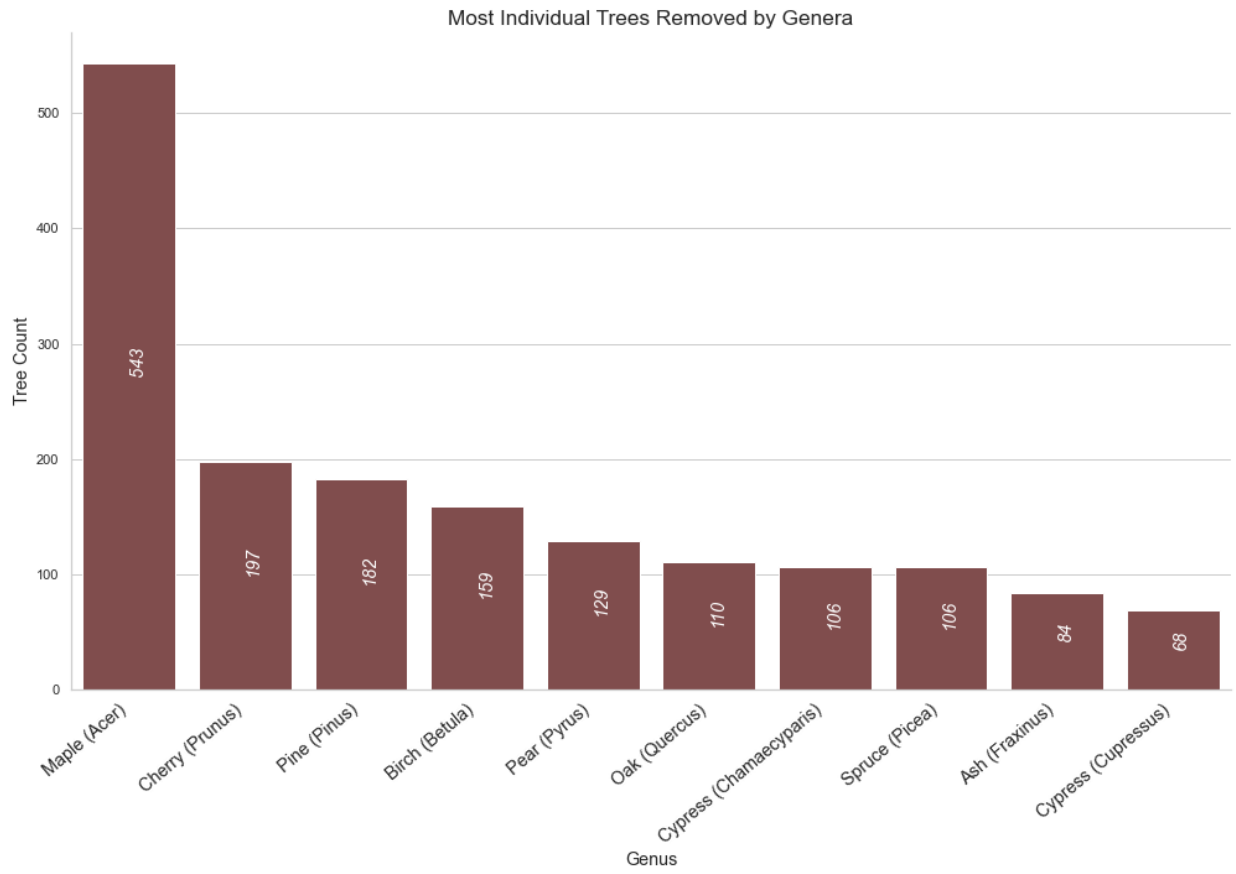
- There is a high density of street trees in the 0 to 3 DBH ranges for trees in the 'Removed, no stump', 'No damage', and 'Removed, stump present' tree status categories.
- The removed trees and 'Removed, no stump' trees follow a similar distribution to non-removed trees except for a peak in density around the 9 to 14 DBH range. This peak was caused by high removal rates for red maple (*Acer Rubrum*), cherry plum (*Prunus Cerasifera*), honey locust (*Gleditsia Triacanthos*), and Callery pear (*Pyrus Calleryana*) in this DBH range. These tree species are especially vulnerable to removal in the 9 to 14 DBH range.
- Charbonneau and Villebois zones contained the highest overall numbers of street trees.
- Charbonneau, Meadows, and Morey's Landing zones contained the greatest numbers of trees marked "Removed, No Stump" with particularly high densities of such trees found in Meadows and Charbonneau.
- Villebois, Morey's Landing/Rivergreen, and Village at Main St./Daydream contained the greatest numbers of trees marked "Damaged".
- The Morey's Landing/Rivergreen zone contained distinctly greater numbers of trees marked "Removed, Stump Present", followed by Village at Main St./Daydream and Charbonneau.
- The zones that experienced the largest net tree loss were the Meadows zone, the Rivergreen/Morey's Landing zone, and the Charbonneau zone.
- The streets that experienced the highest density of 'Removed, no stump' trees were Greens View Court in Charbonneau, Ironwood Court in Charbonneau, and Serene Place in Rivergreen/Morey's Landing.

Appendix A: Tree Genus Charts

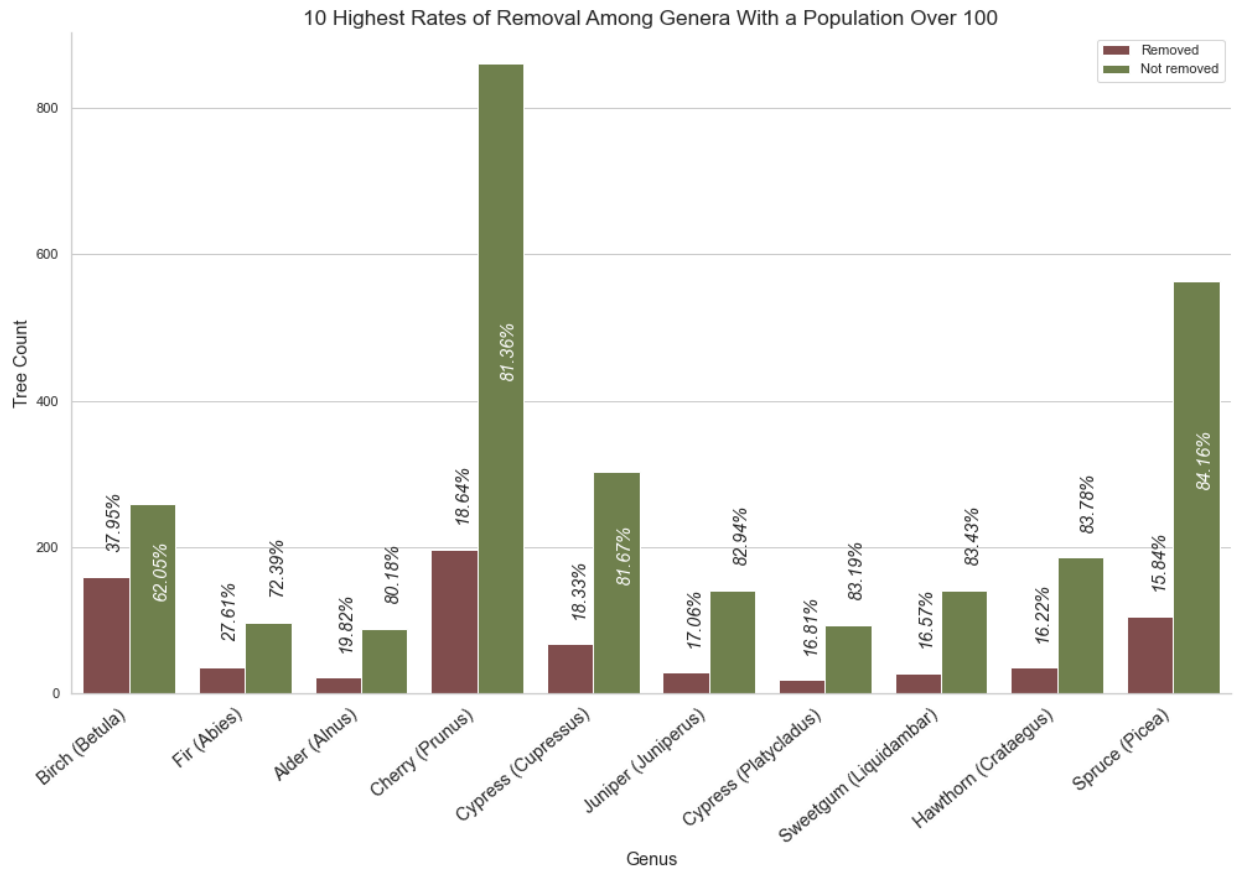
1. Most Populous Genera of Street Tree



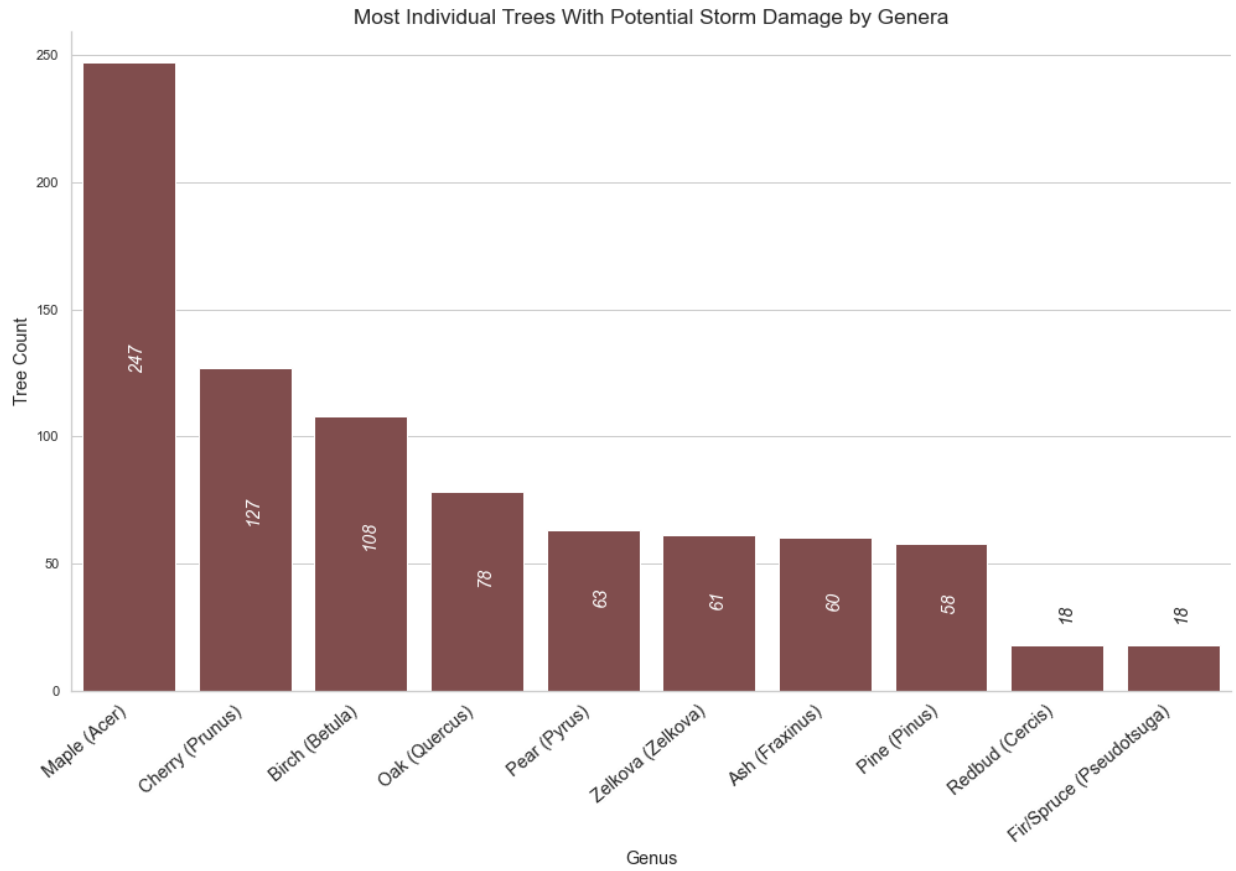
2. Most Individual Trees Removed by Genera



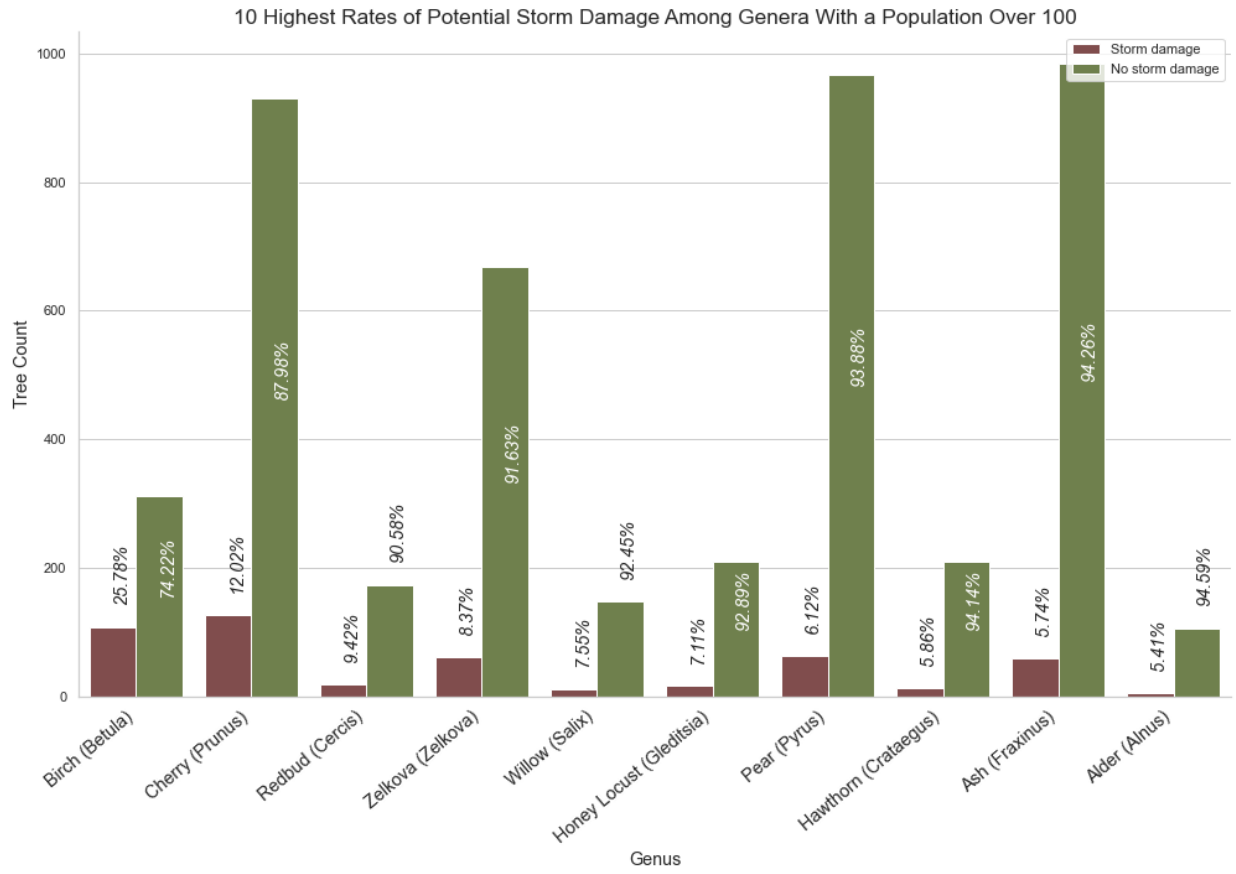
3. Highest Rates of Removal for Genera With Populations over 100



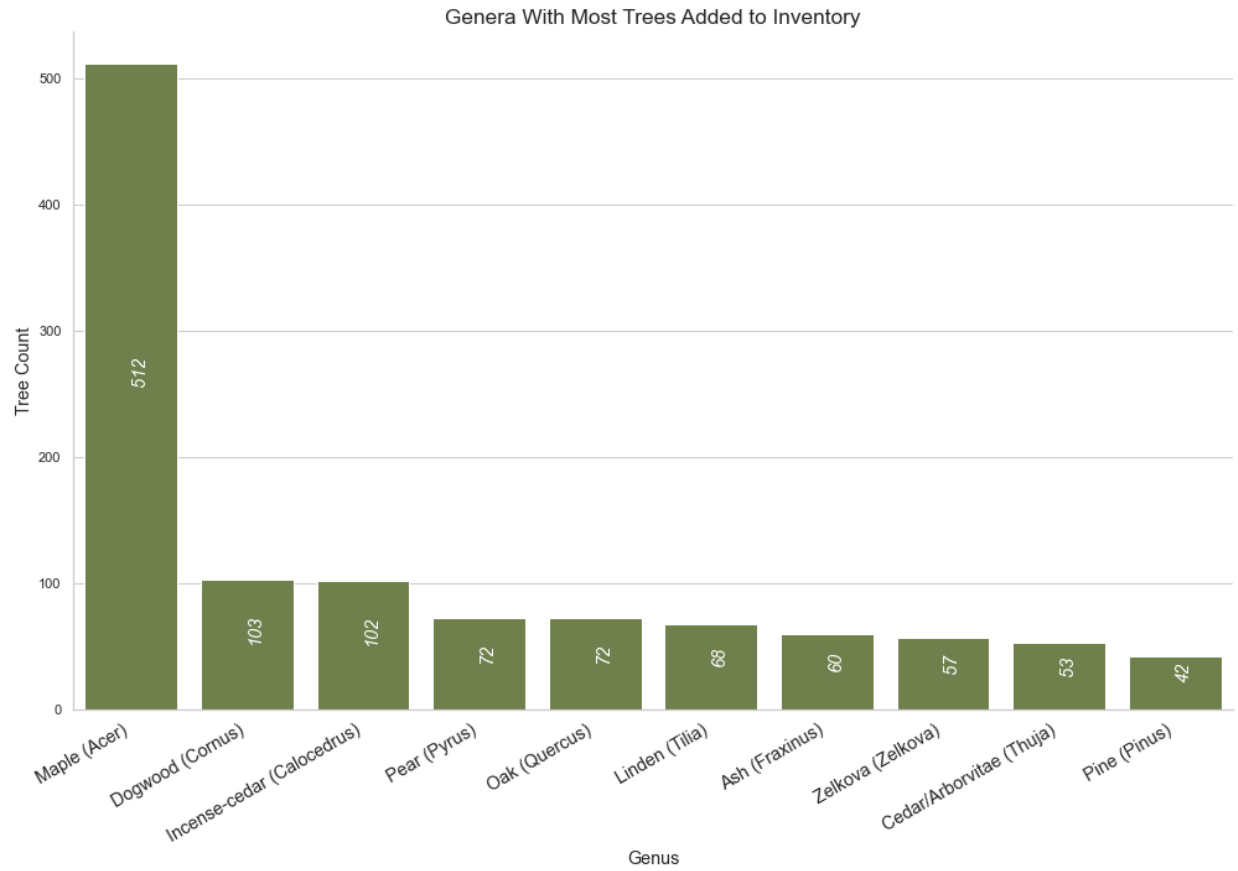
4. Most Individual Trees That Suffered Storm Damage by Genera



5. Genera With Highest Rate of Storm Damage

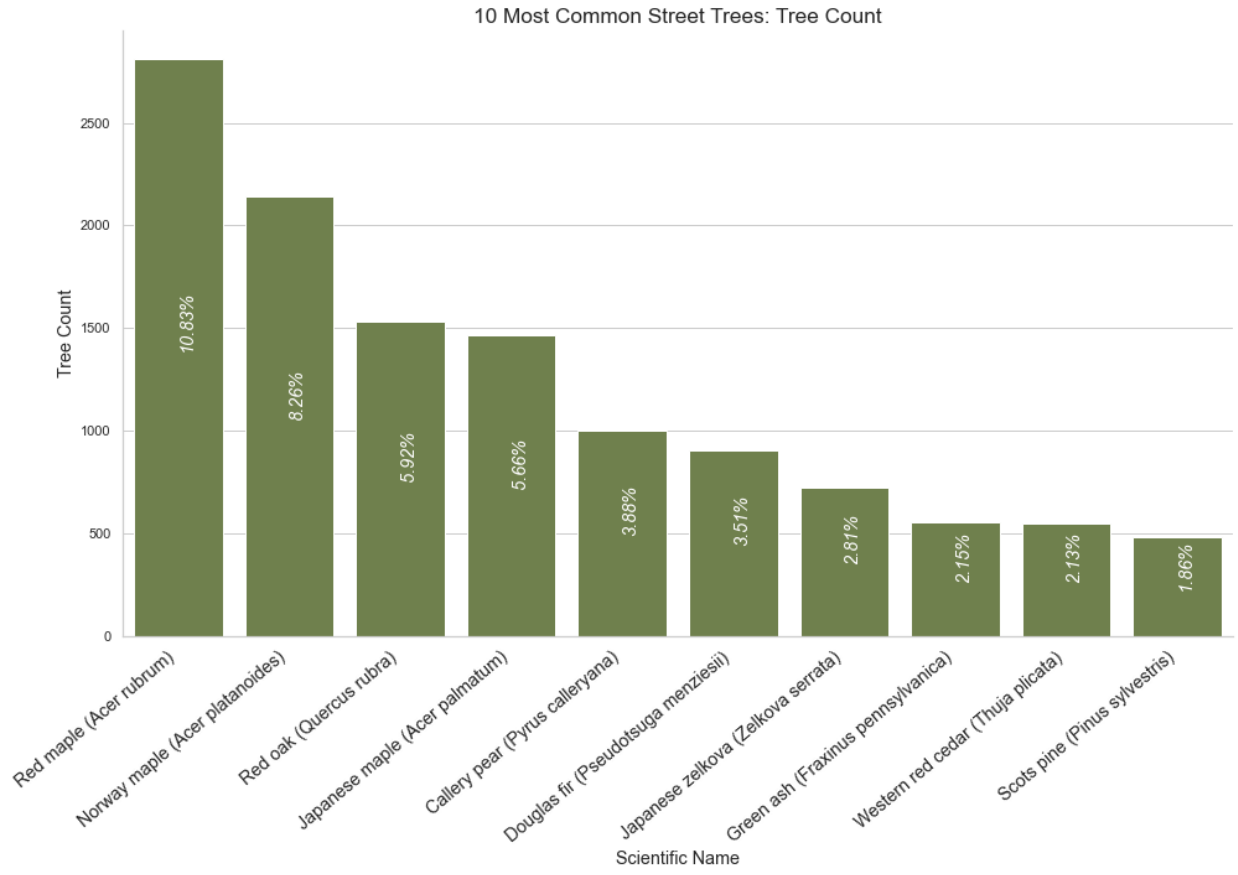


6. Genera With Highest Number of Trees Added to Inventory

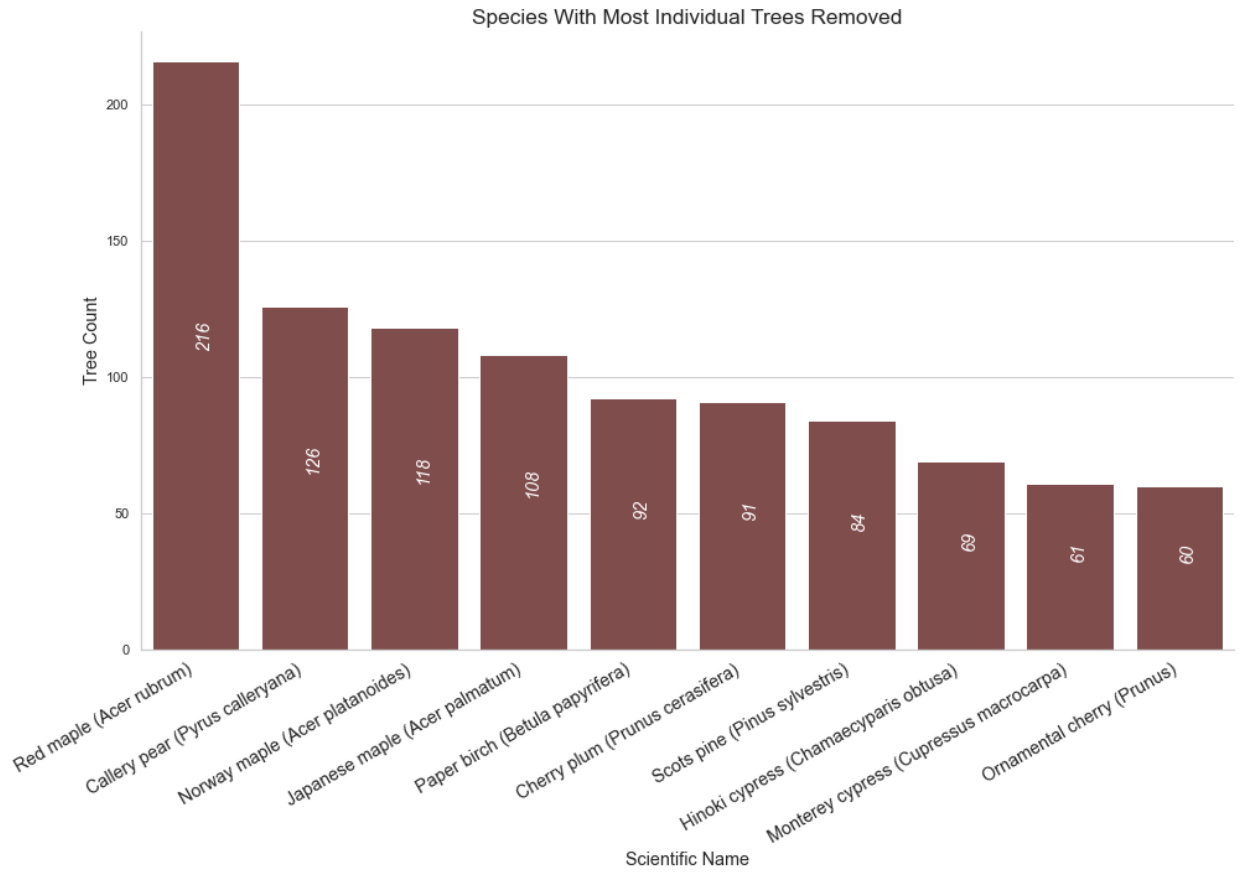


Appendix B: Tree Species Charts

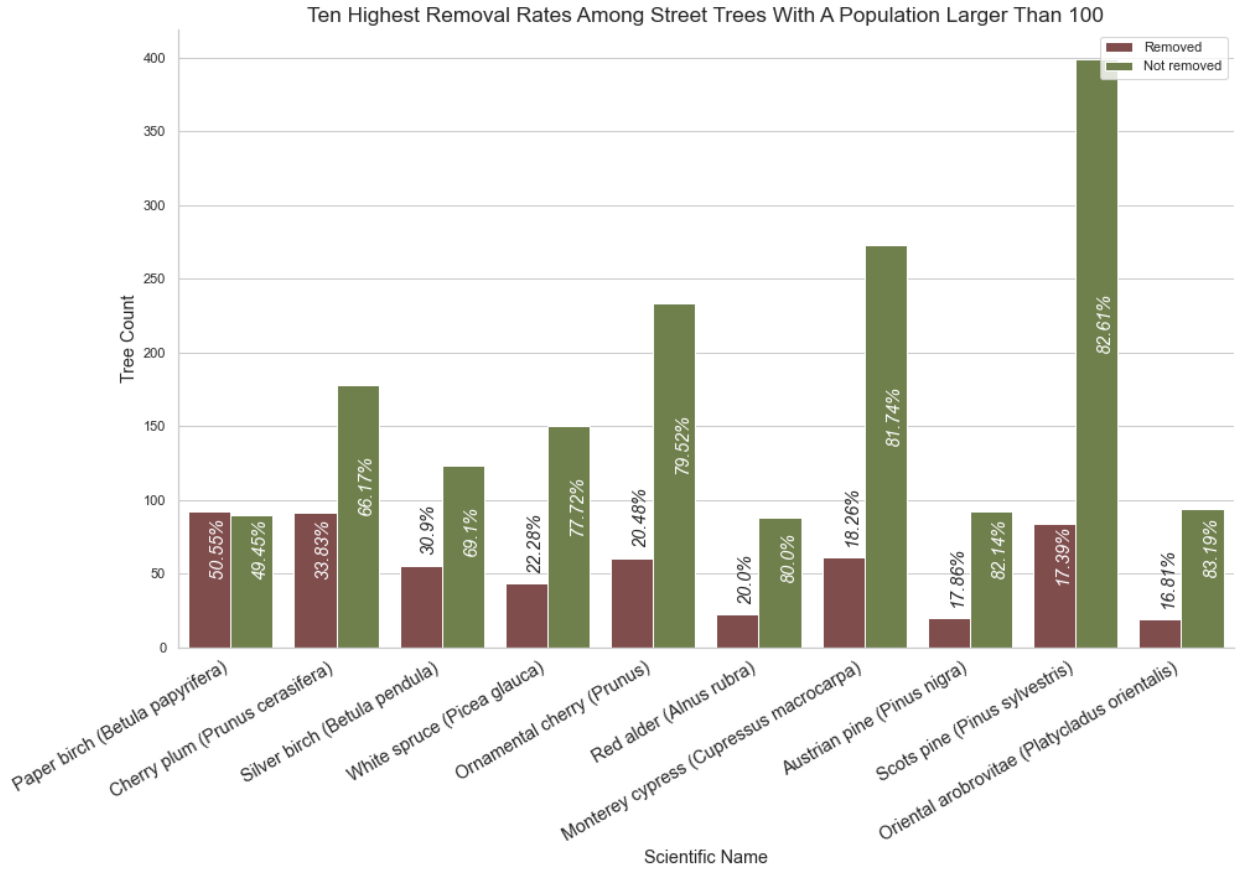
1. Most populous species of street trees



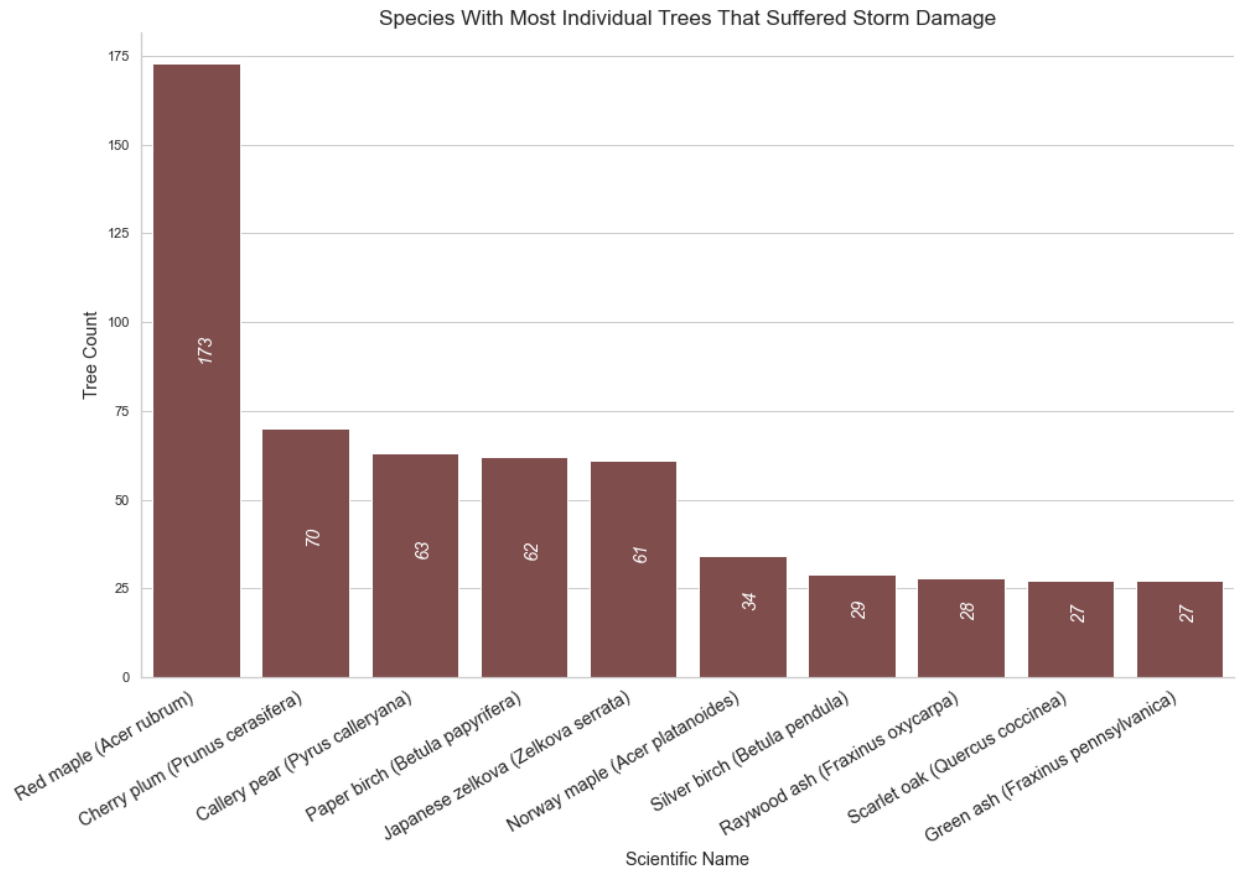
2. Which tree species had the most individual trees removed?



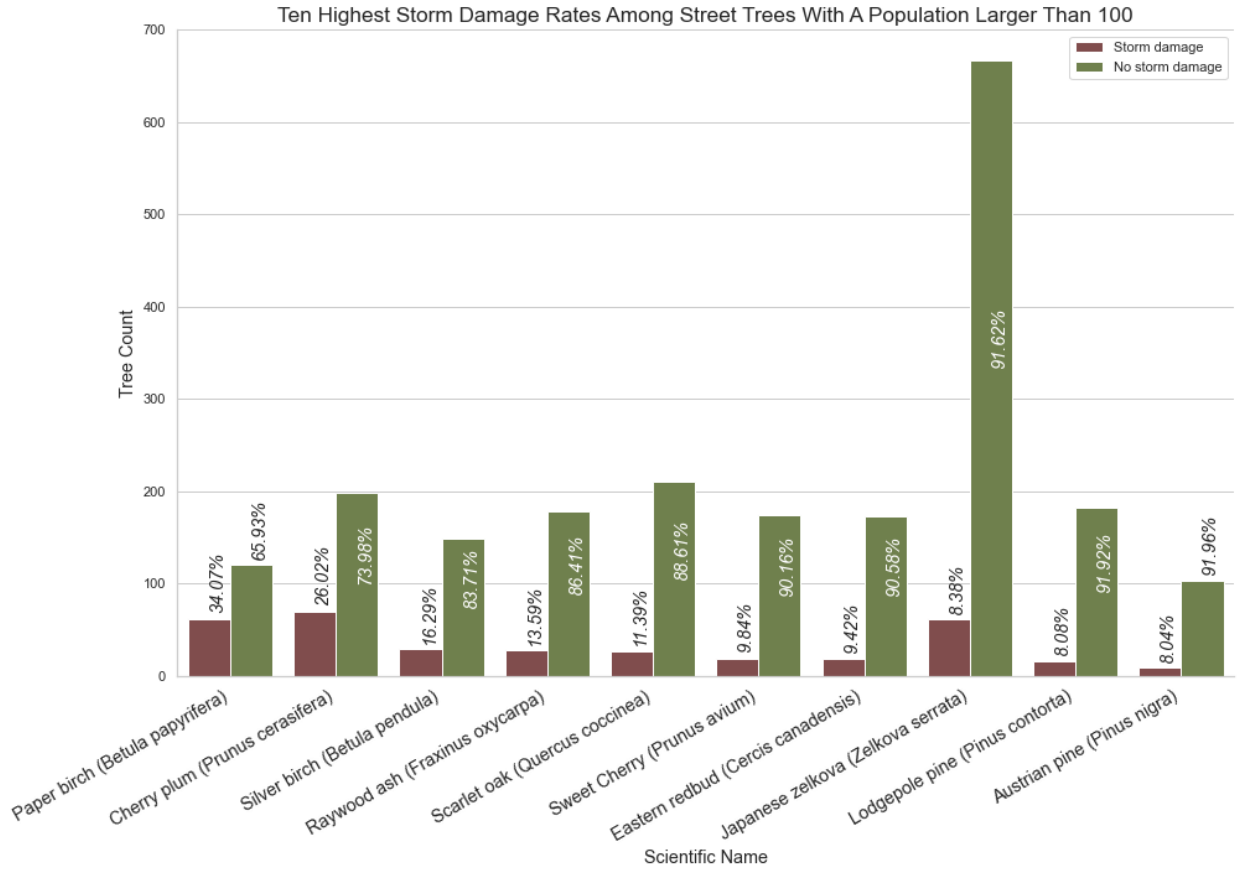
3. Highest Rates of Removal for Species with Populations over 100



4. Most Individual Trees That Suffered Storm Damage by Species

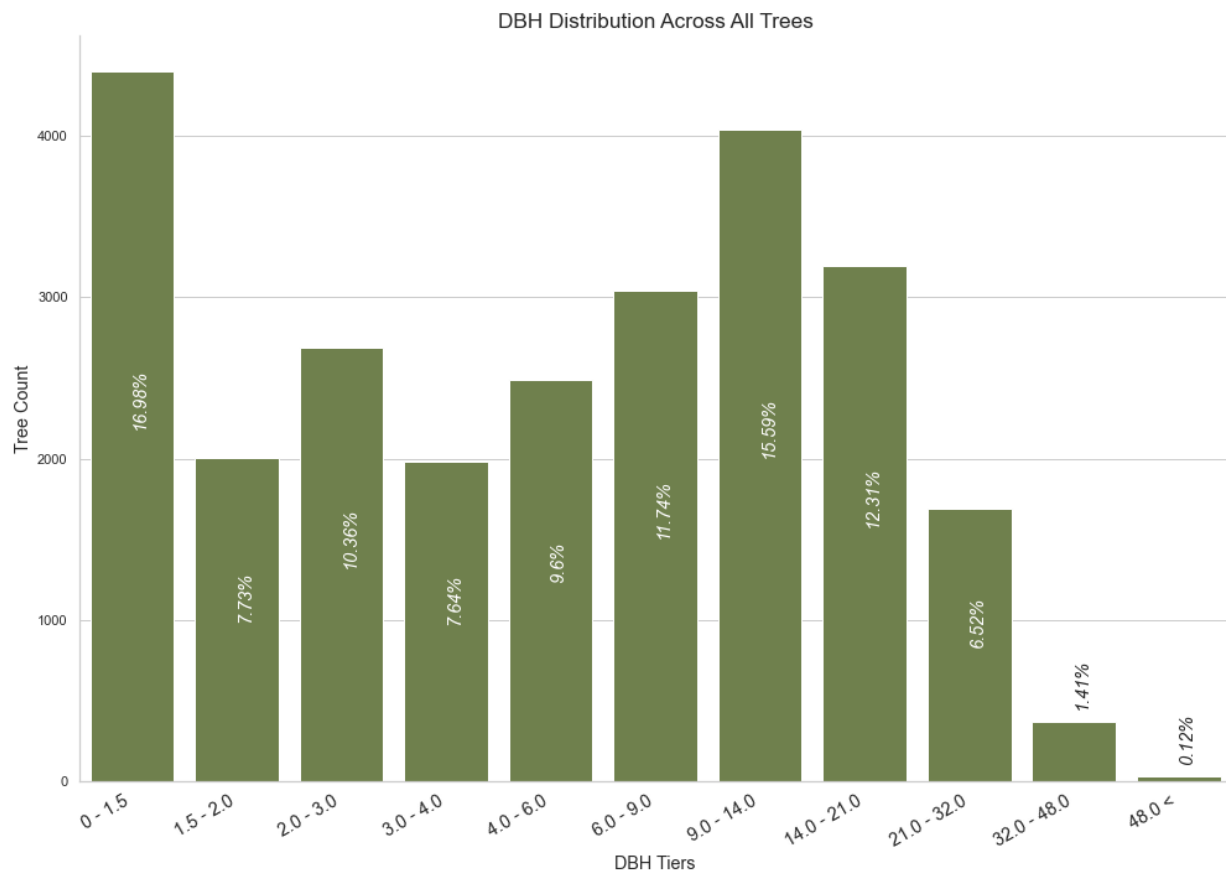


5. Species with Highest Rate of Storm Damage



Appendix C: DBH Maps and Charts

1. DBH Distribution Across All Trees



Street Tree Density Most Removed Tree Species 9 to 14 DBH

City of
Wilsonville,
Tree Inventory
2021

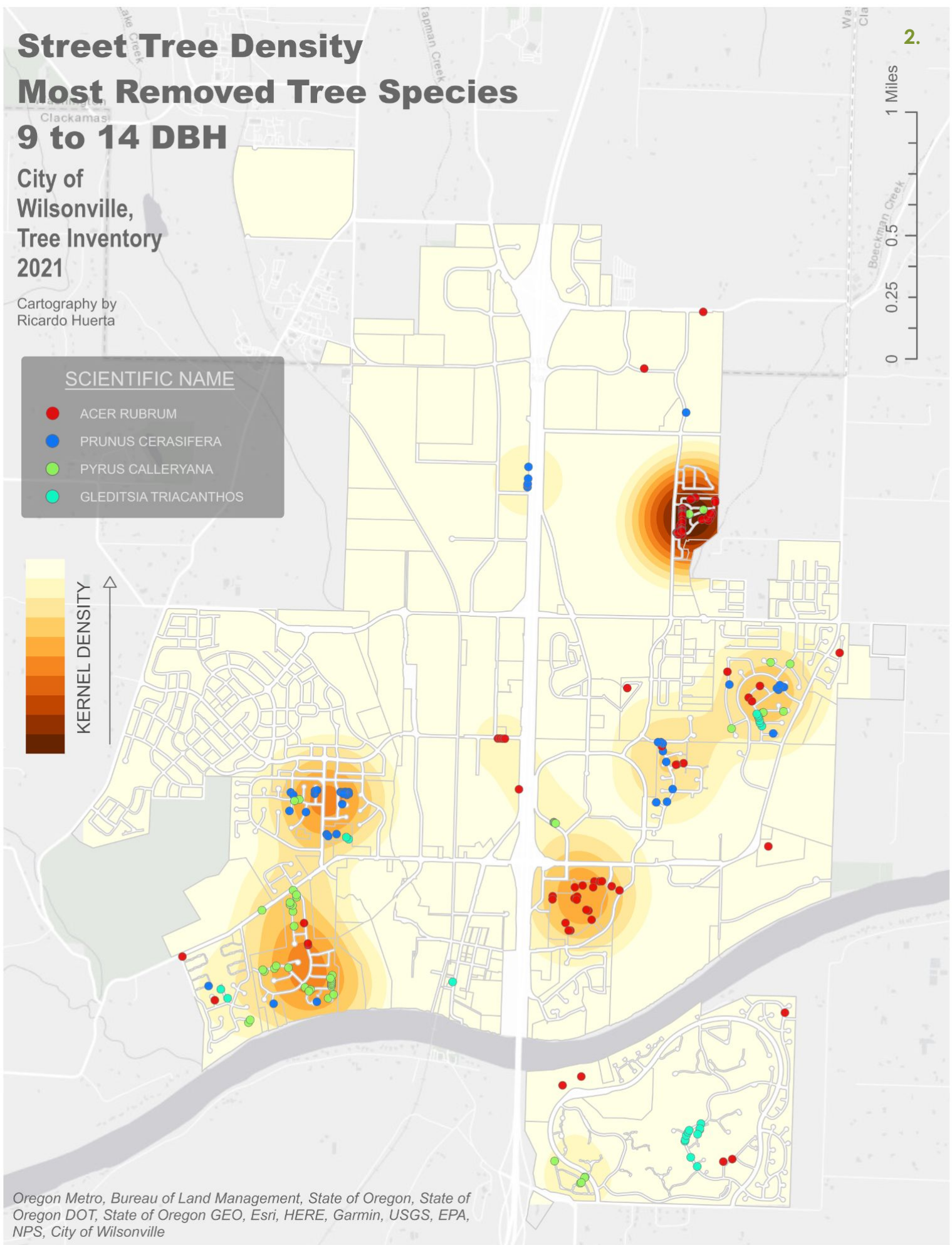
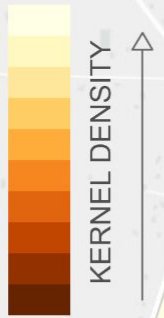
Cartography by
Ricardo Huerta

2.



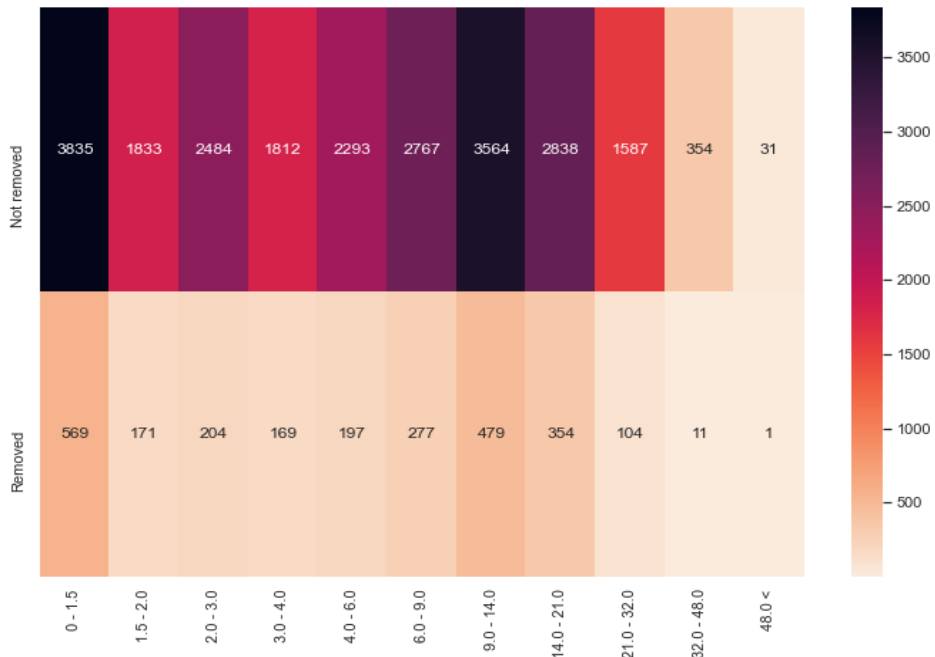
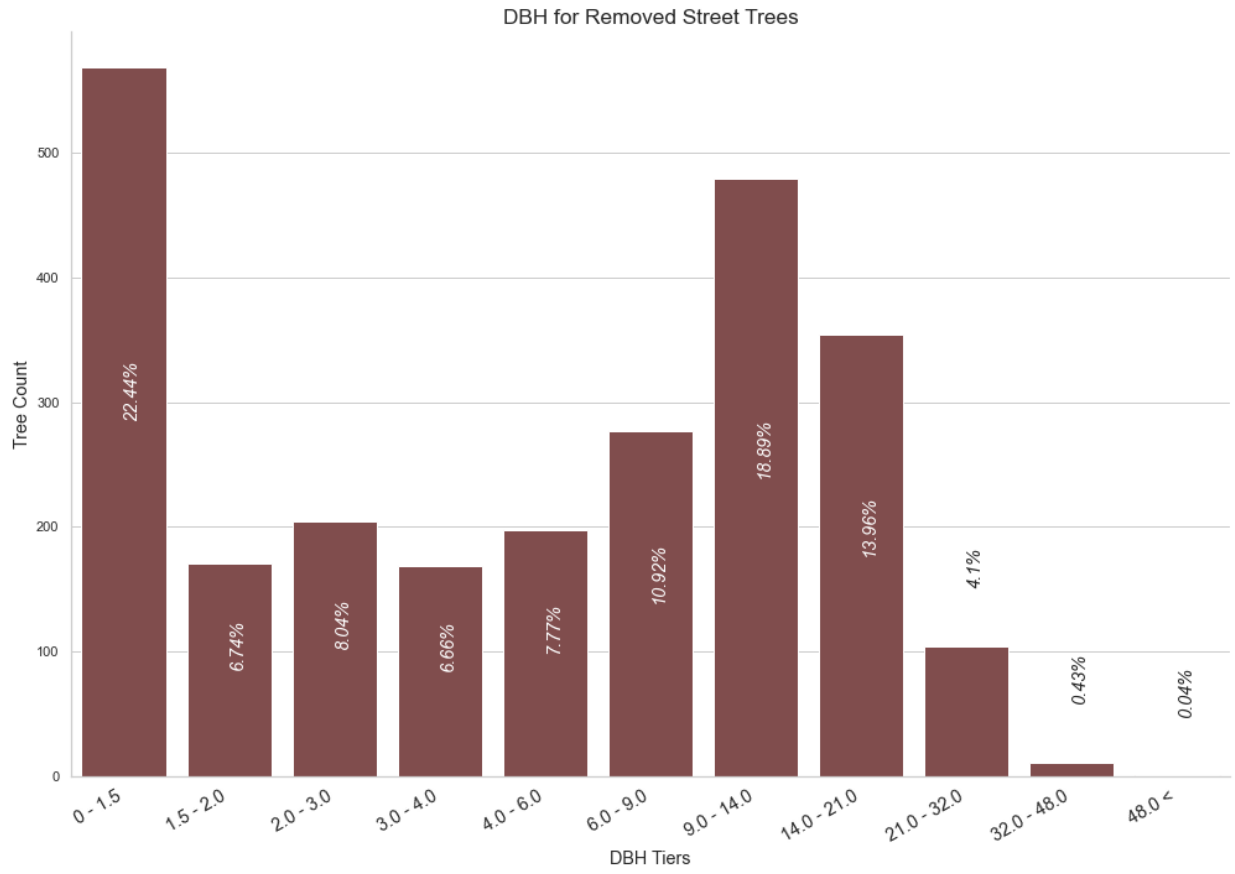
SCIENTIFIC NAME

- ACER RUBRUM
- PRUNUS CERASIFERA
- PYRUS CALLERYANA
- GLEDITSIA TRIACANTHOS

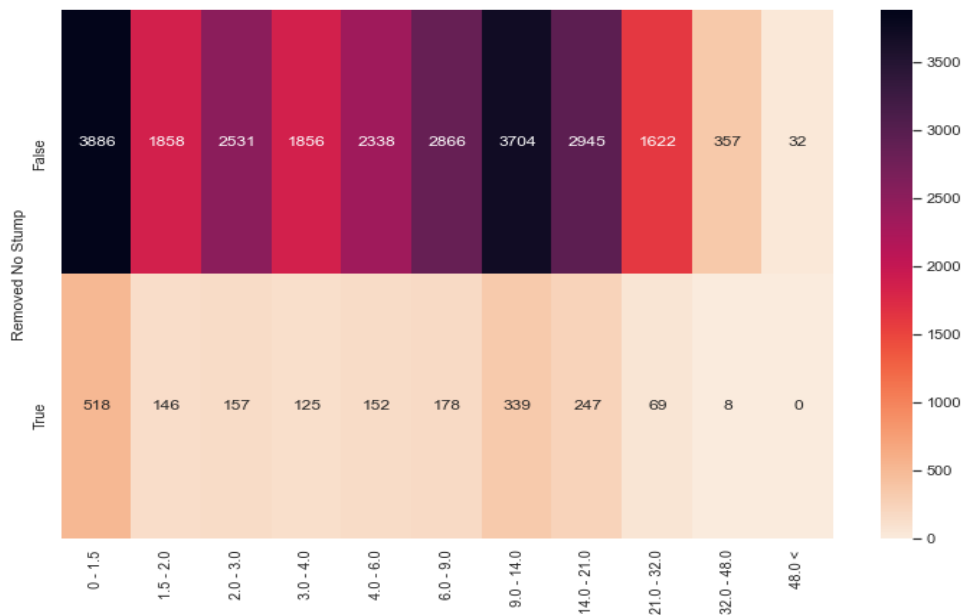
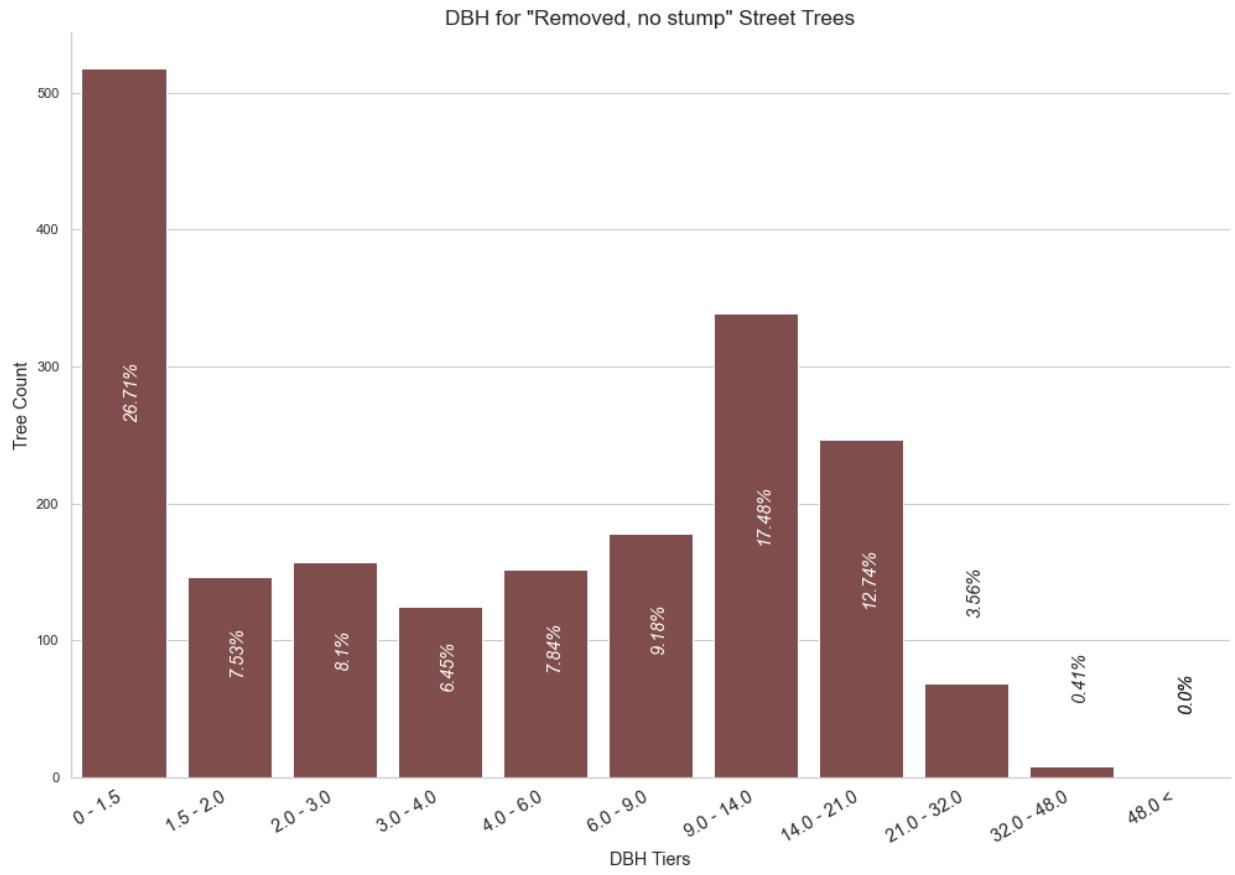


Oregon Metro, Bureau of Land Management, State of Oregon, State of Oregon DOT, State of Oregon GEO, Esri, HERE, Garmin, USGS, EPA, NPS, City of Wilsonville

3. Tree Removal Rates by DBH



4. "Removed, no stump" Rates by DBH



Appendix D: City Maps

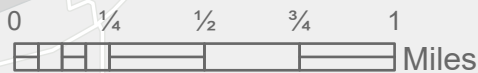
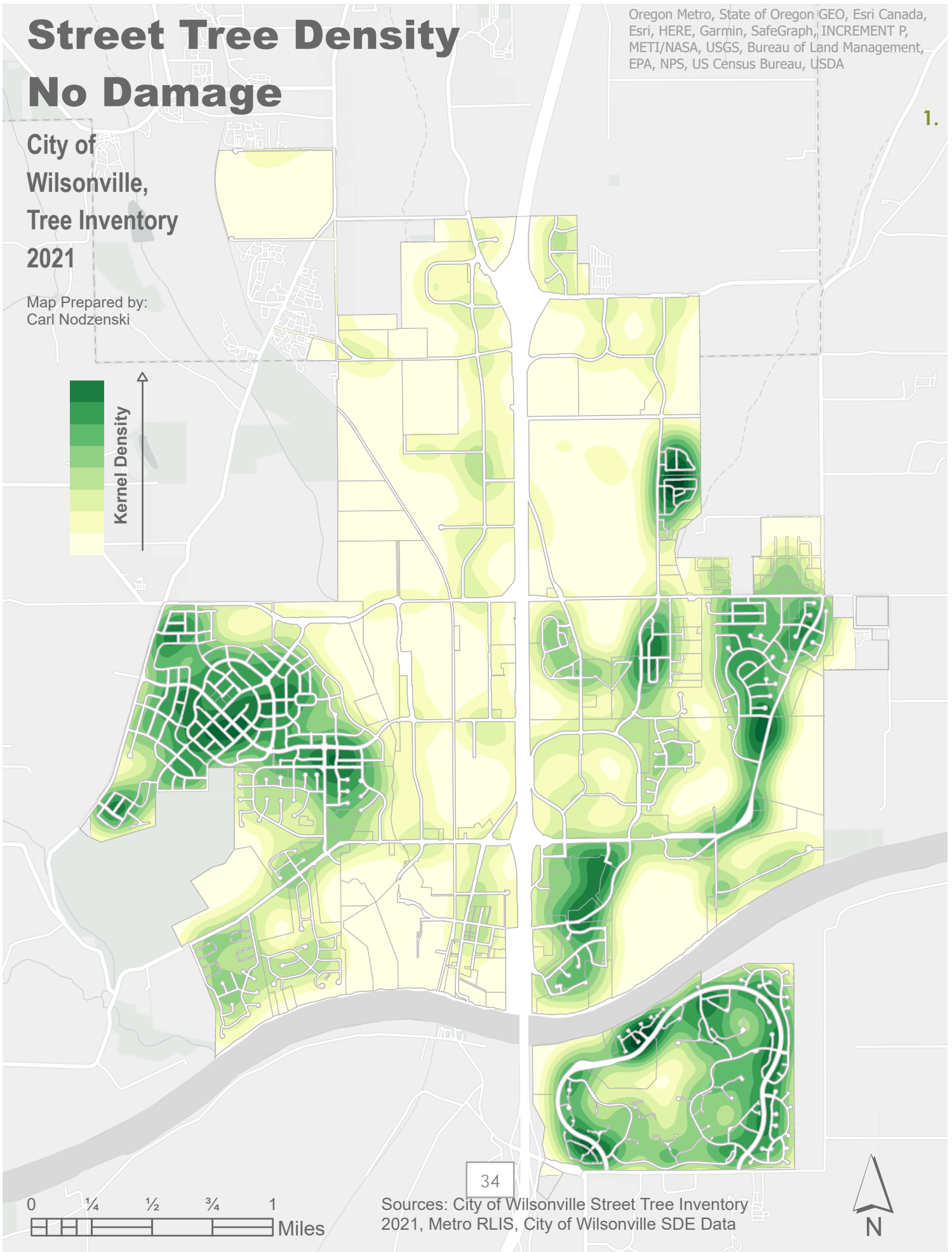
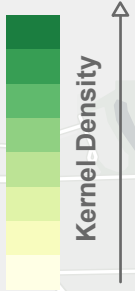
Street Tree Density

No Damage

City of
Wilsonville,
Tree Inventory
2021

Map Prepared by:
Carl Nodzinski

Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA



Sources: City of Wilsonville Street Tree Inventory 2021, Metro RLIS, City of Wilsonville SDE Data



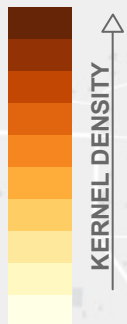
1.

34

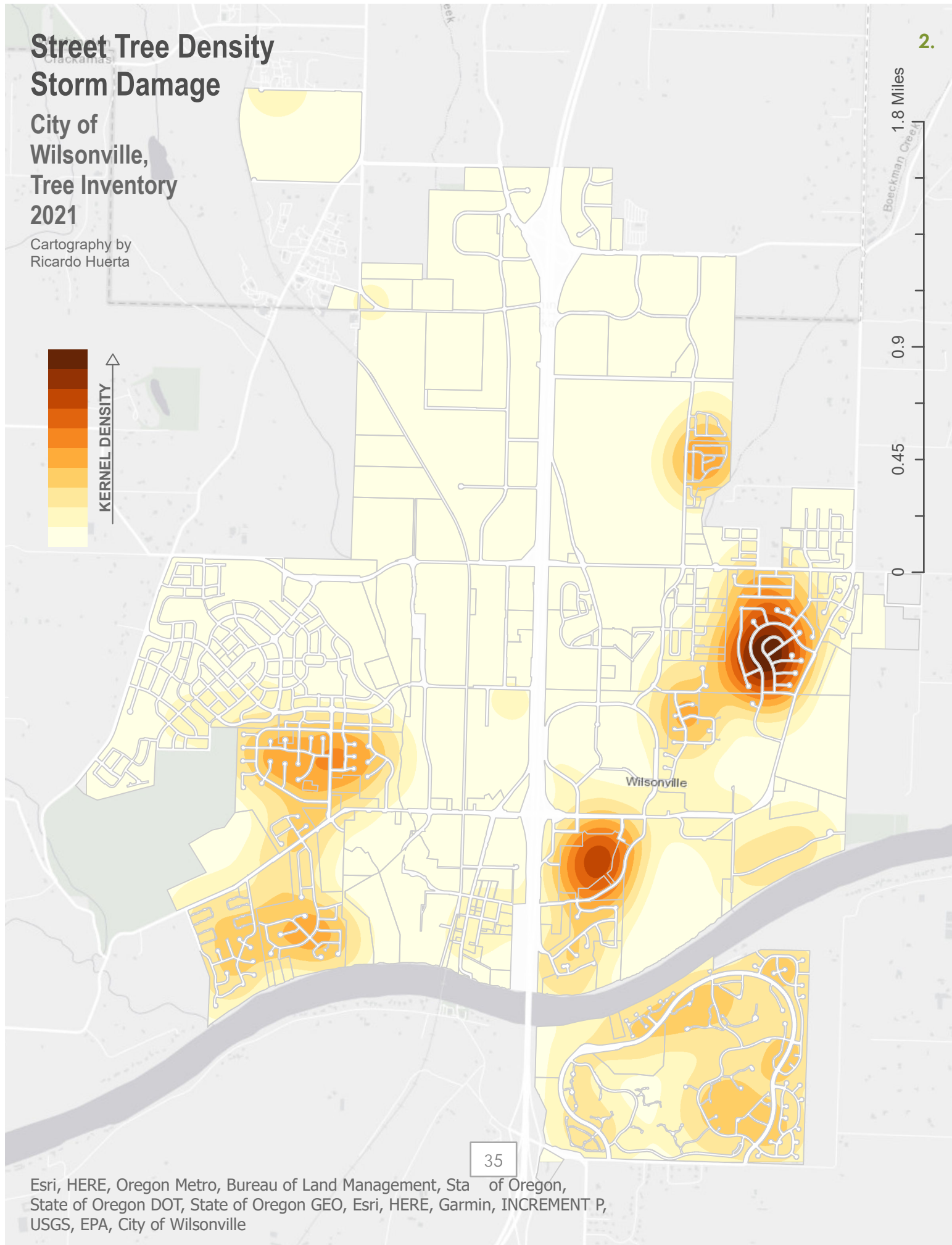
Street Tree Density Storm Damage

City of
Wilsonville,
Tree Inventory
2021

Cartography by
Ricardo Huerta



2.



Street Tree Density

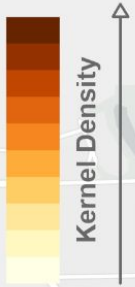
Damaged

City of
Wilsonville,
Tree Inventory
2021

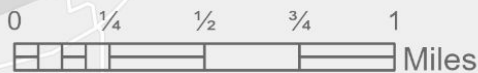
Map Prepared by:
Carl Nodzinski

Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

3.



36



Sources: City of Wilsonville Street Tree Inventory 2021, Metro RLIS, City of Wilsonville SDE Data



Street Tree Density Removed, Stump Present

City of
Wilsonville,
Tree Inventory
2021

Map Prepared by:
Carl Nodzinski

Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

4.



37



Sources: City of Wilsonville Street Tree Inventory 2021, Metro RLIS, City of Wilsonville SDE Data



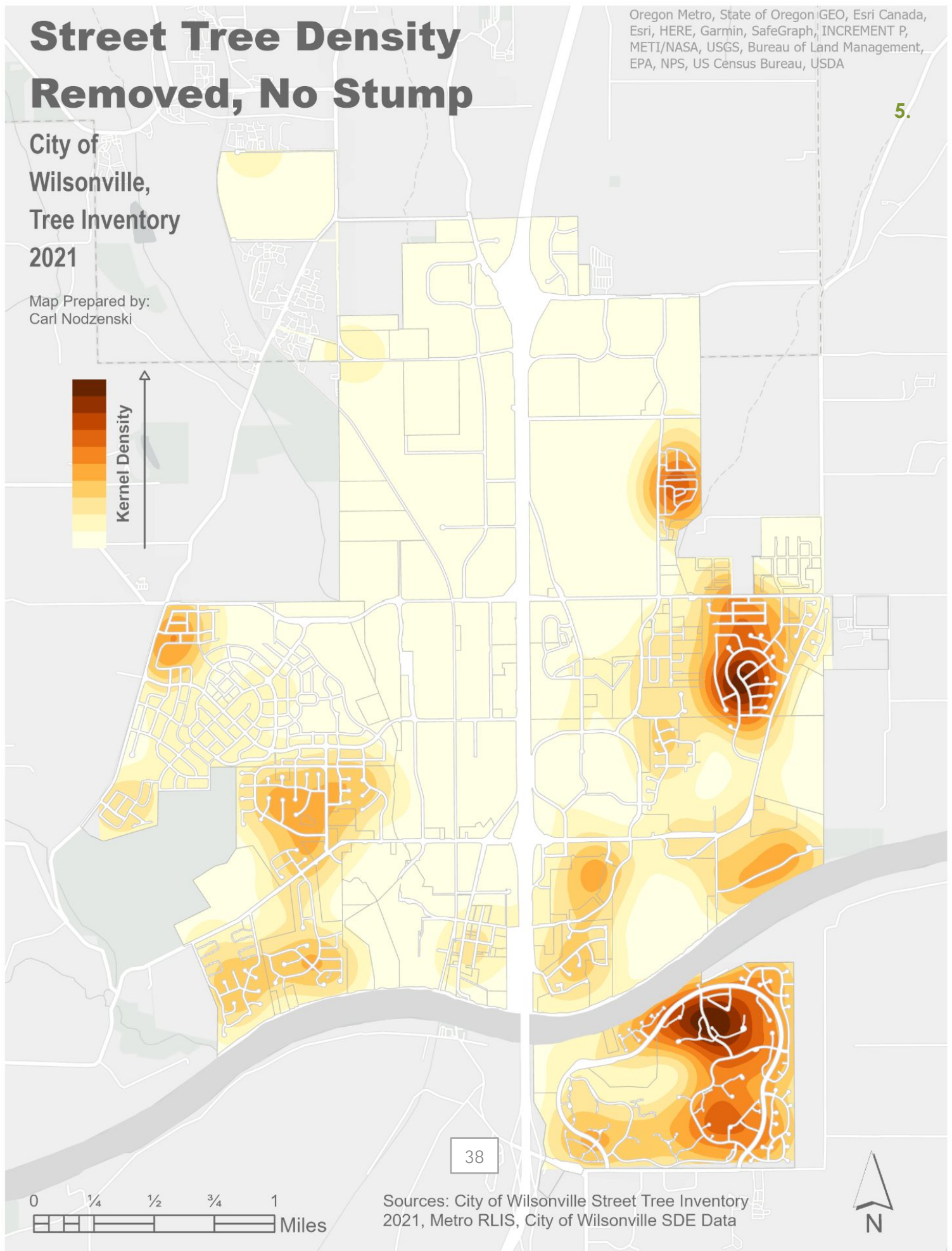
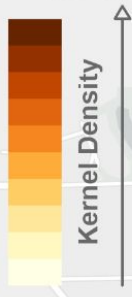
Street Tree Density Removed, No Stump

City of
Wilsonville,
Tree Inventory
2021

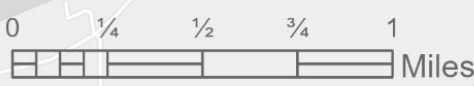
Map Prepared by:
Carl Nodzinski

Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

5.



38



Sources: City of Wilsonville Street Tree Inventory 2021, Metro RLIS, City of Wilsonville SDE Data



Removed, No Stump Tree Density

City of
Wilsonville,
Tree Inventory
2021

Cartography by Ricardo Huerta

Removed, no stump density (yards)



0.0
0.25

 = 3 streets with highest "removed, no stump" density

2 Miles

1

0.5

0

3. Serene Place
Removed, no stump: 12
Mean DBH: 10.13

1. Greens View Ct
Removed, no stump: 8
Mean DBH: 6.83

2. Ironwood Ct
Removed, no stump:
9
Mean DBH: 4.86

39

Neighborhood Street Tree Population Change

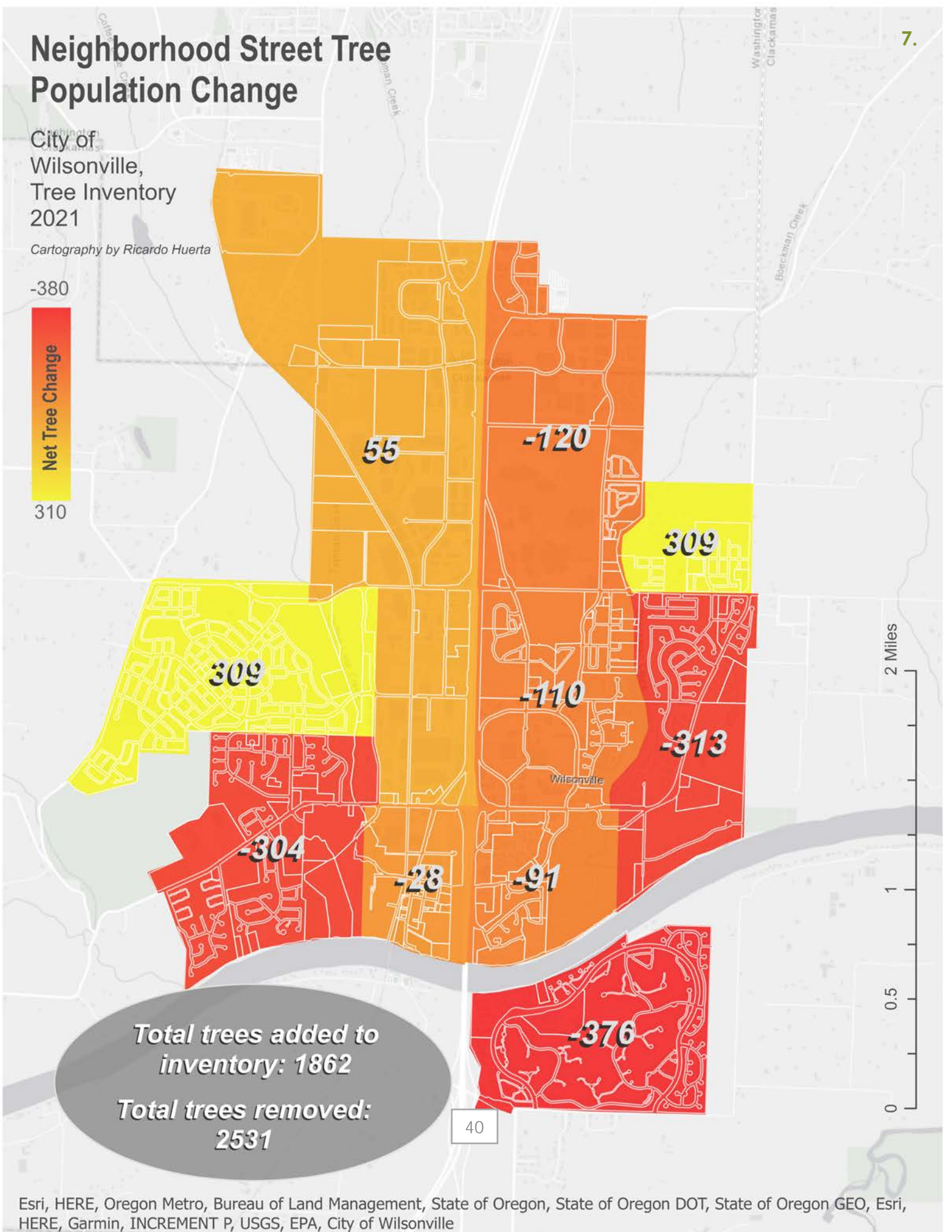
City of
Wilsonville,
Tree Inventory
2021

Cartography by Ricardo Huerta

-380



310



55

-120

309

309

-110

-313

-304

-28

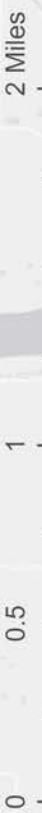
-91

-376

Total trees added to
inventory: 1862

Total trees removed:
2531

40



Appendix E: Neighborhood Zone Maps & Charts

All Neighborhood Zones

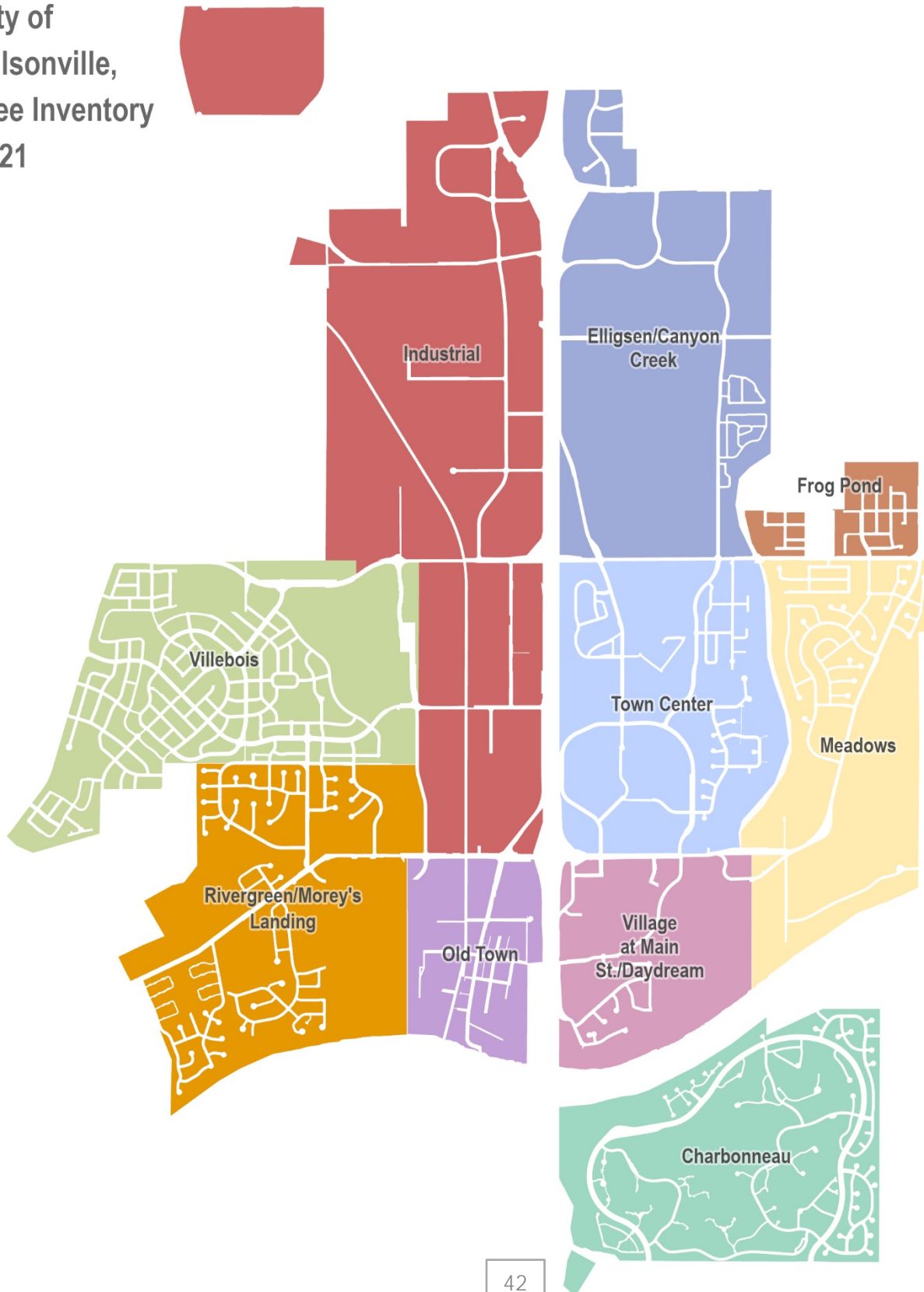
Wilsonville Neighborhood

Map prepared by:
Carl Nodzenski

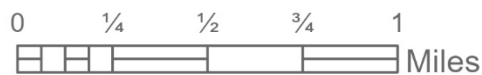
1.

Zones

City of
Wilsonville,
Tree Inventory
2021



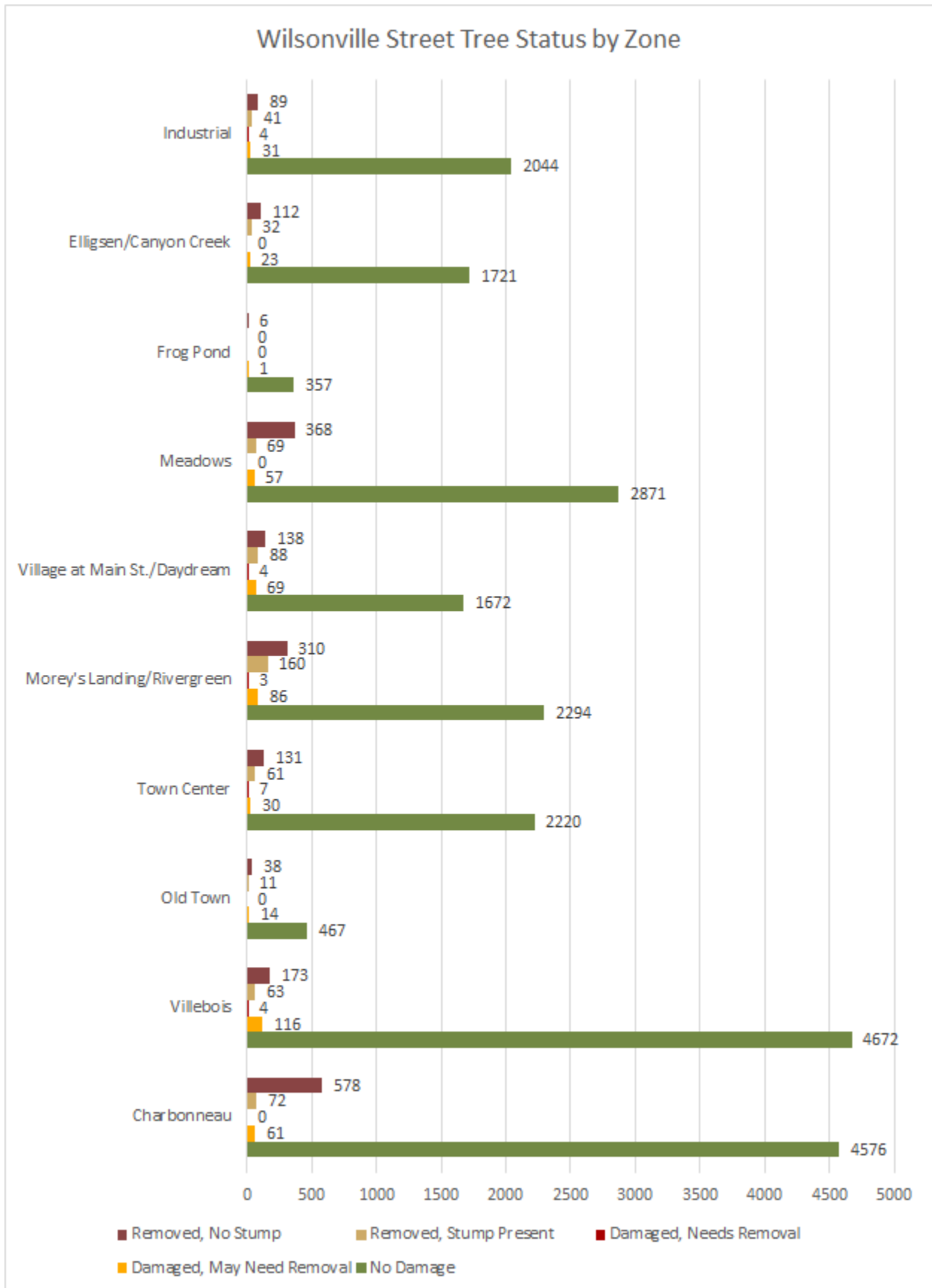
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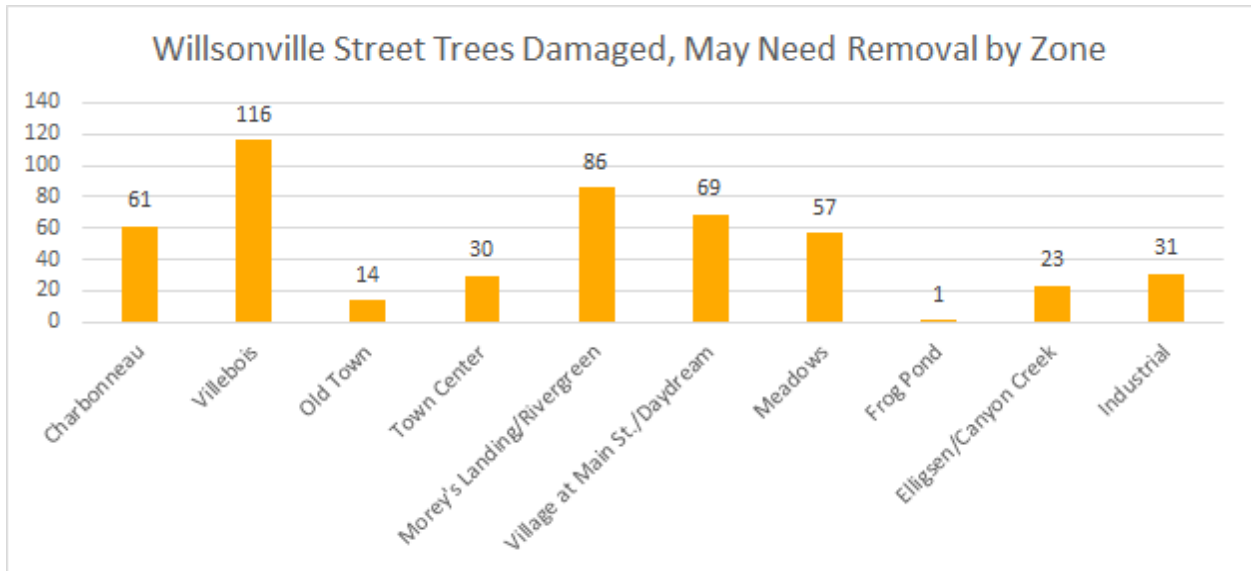
Sources: City of Wilsonville Street Tree Inventory 2021, SDE data



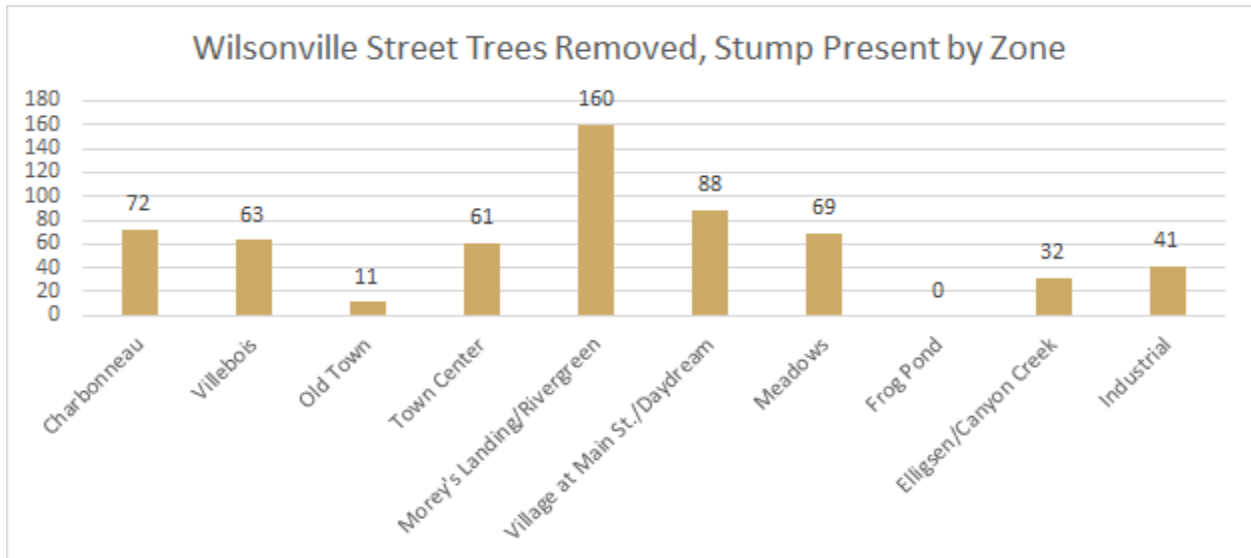
2. Street Tree Status



3. Damaged, May Need Removal Tree Comparison



4. Removed, Stump Present Tree Comparison

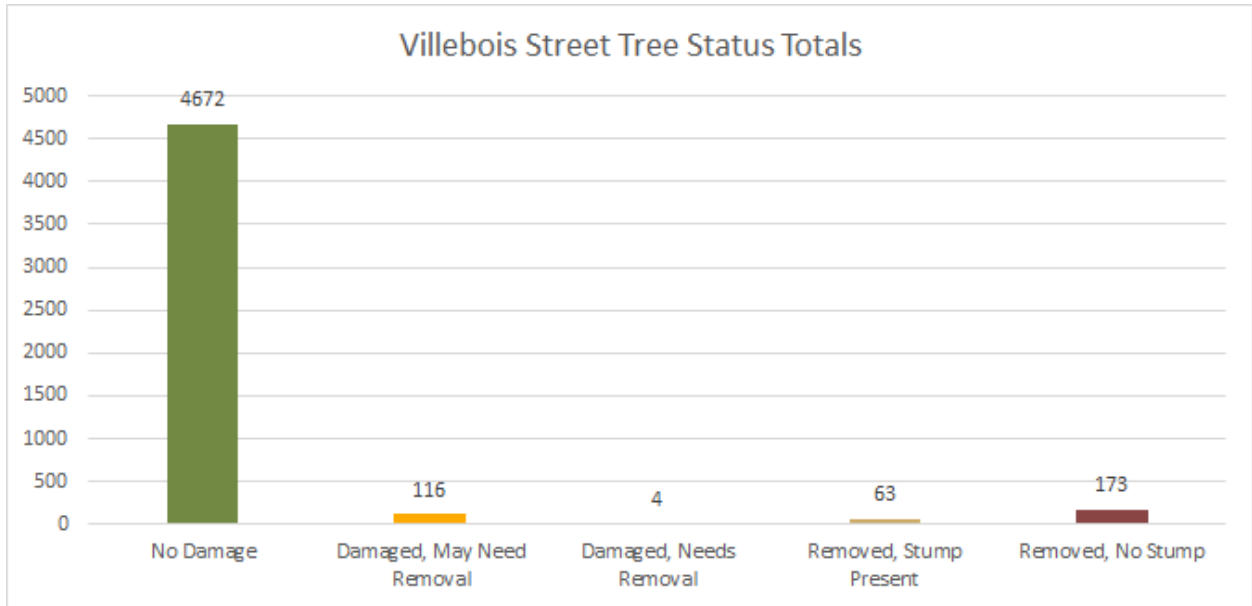


5. Removed, No Stump Tree Comparison



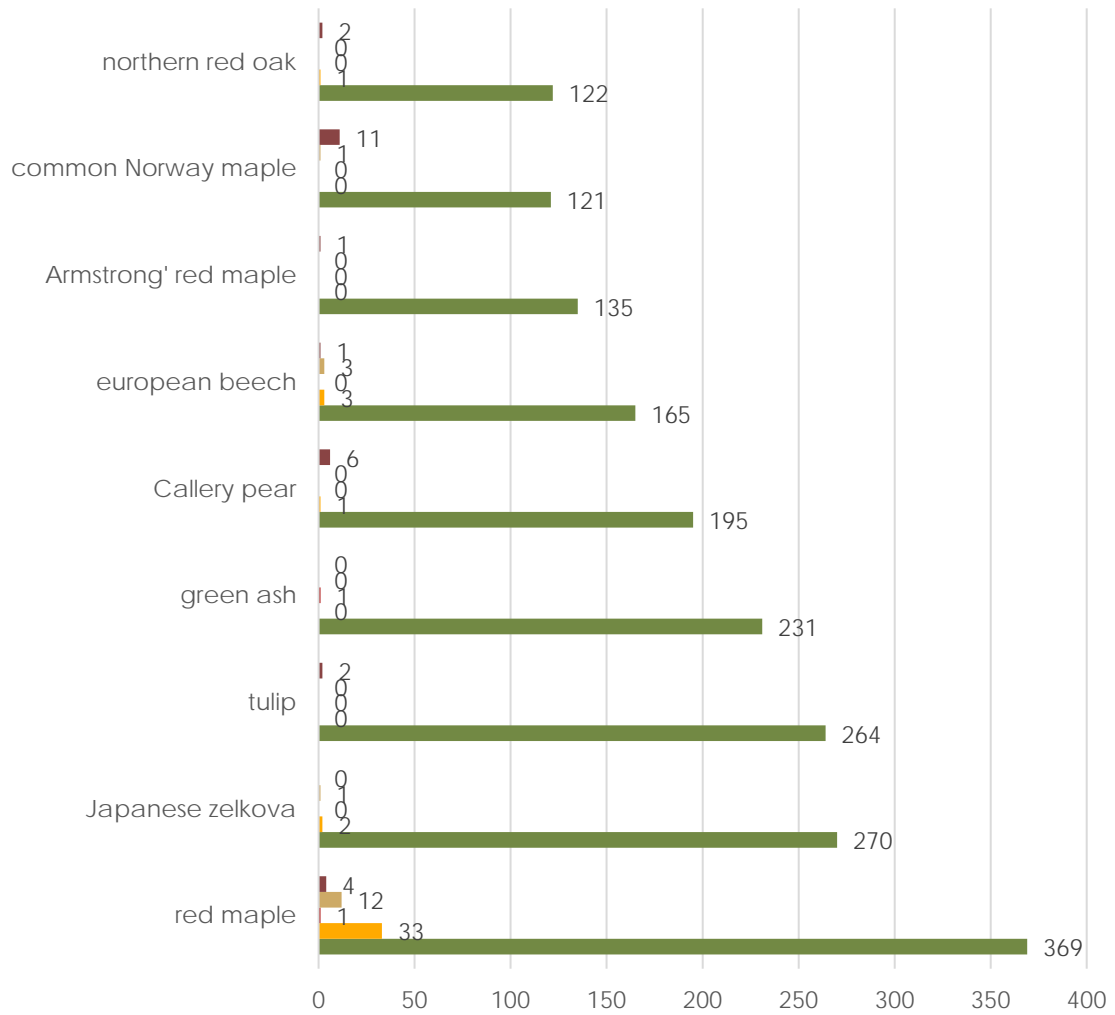
Villebois Zone Maps & Charts

6. Status Totals

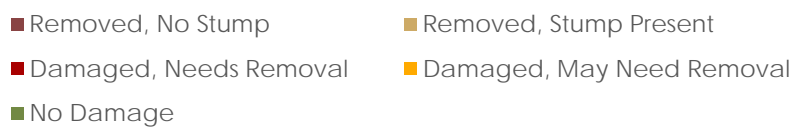


7. 10 Most Common Tree Species & Status

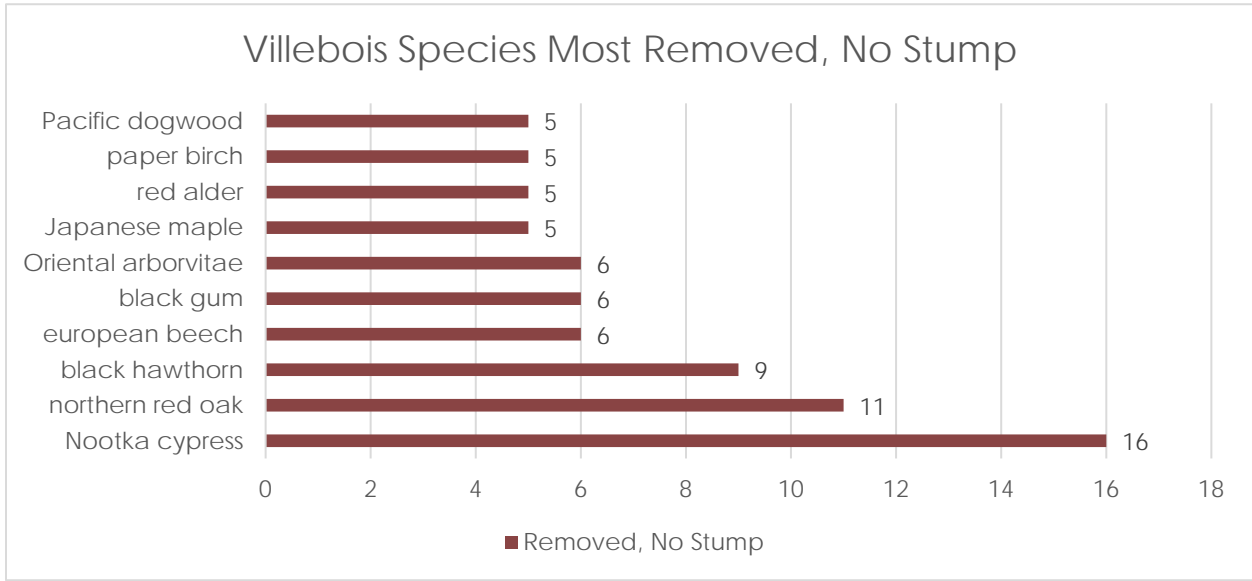
Villebois 10 Most Common Species by Tree Status



	red maple	Japanese zelkova	tulip	green ash	Callery pear	European beech	Armstrong' red maple	common Norway maple	northern red oak
Removed, No Stump	4	0	2	0	6	1	1	11	2
Removed, Stump Present	12	1	0	0	0	3	0	1	0
Damaged, Needs Removal	1	0	0	1	0	0	0	0	0
Damaged, May Need Removal	33	2	0	0	1	3	0	0	1
No Damage	369	270	264	231	195	165	135	121	122



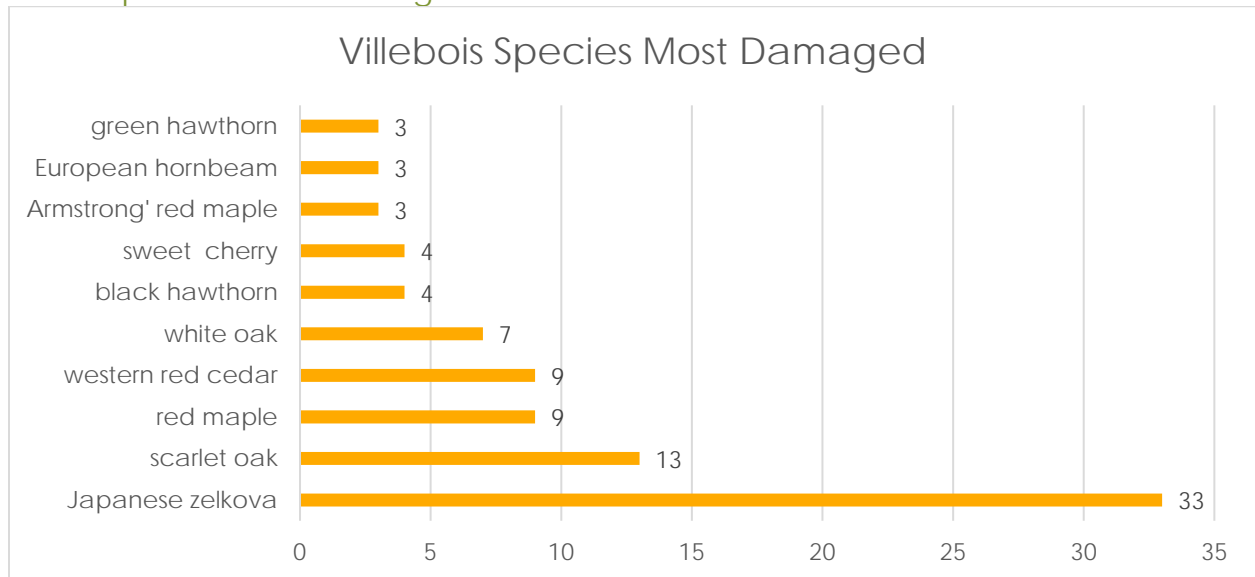
8. 10 Most Removed, No Stump Species



9. Trees Removed, No Stump by DBH



10. Species Most Damaged

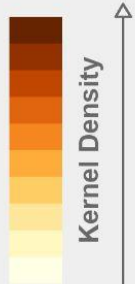


Street Tree Status: Damaged

Villebois Neighborhood
Wilsonville, OR

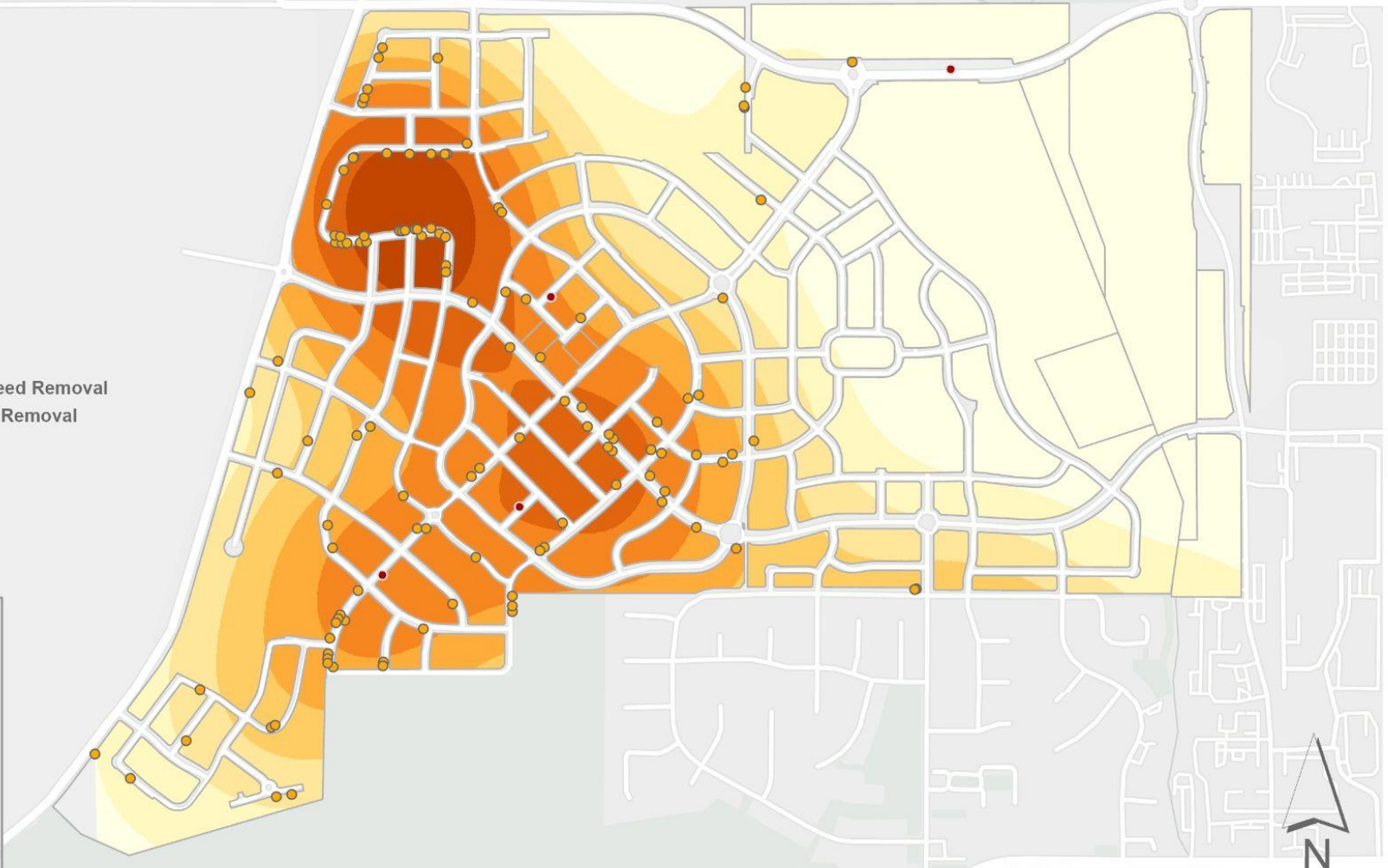
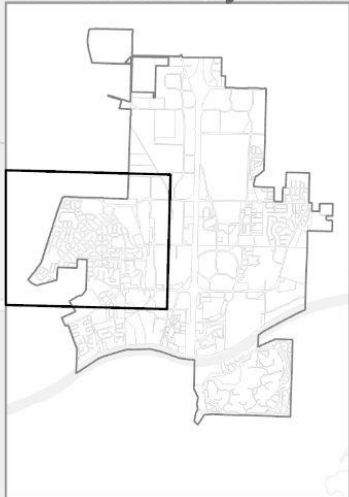
Map Prepared by:
Carl Nodzenski

11.



- Damaged, May Need Removal
- Damaged, Needs Removal

Wilsonville City Limits



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Sources: City of Wilsonville Street Tree Inventory, SDE

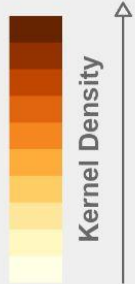
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

Street Tree Status: Removed, No Stump

Villebois Neighborhood
Wilsonville, OR

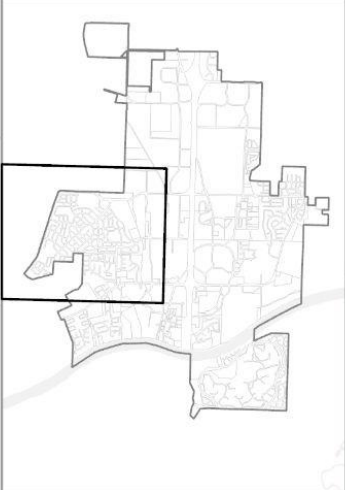
Map Prepared by:
Carl Nodzinski

12.



• Removed No Stump

Wilsonville City Limits



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Sources: City of Wilsonville Street Tree Inventory, SDE

Esri Community Maps Contributors, Oregon Metro, State of Oregon
GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P,
METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US
Census Bureau, USDA

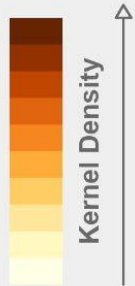


Street Tree Status: Removed, Stump Present

Map Prepared by:
Carl Nodzenski

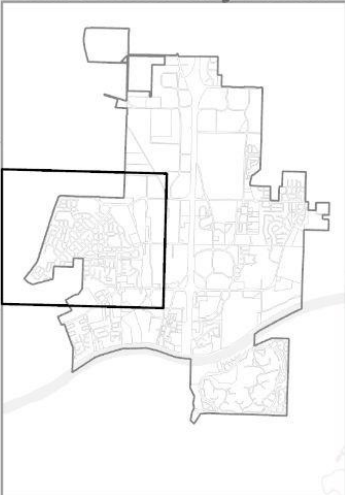
13.

Villebois Neighborhood
Wilsonville, OR



● Removed, Stump Present

Wilsonville City Limits



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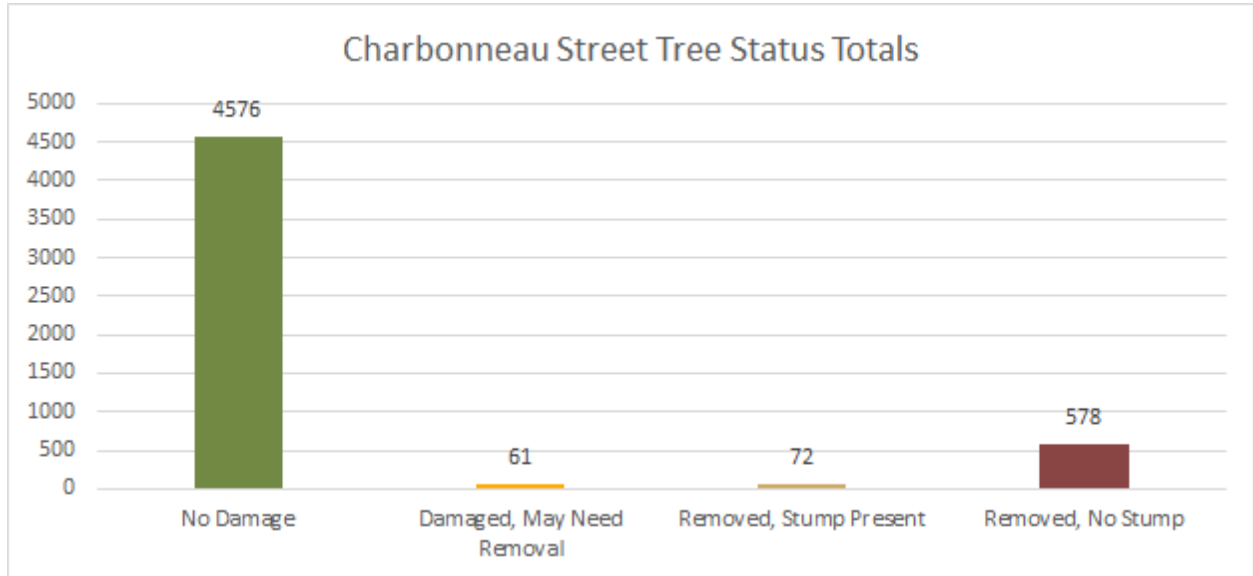
Sources: City of Wilsonville Street Tree Inventory, SDE

Esri Community Maps Contributors, Oregon Metro, State of Oregon
GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P,
METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US
Census Bureau, USDA



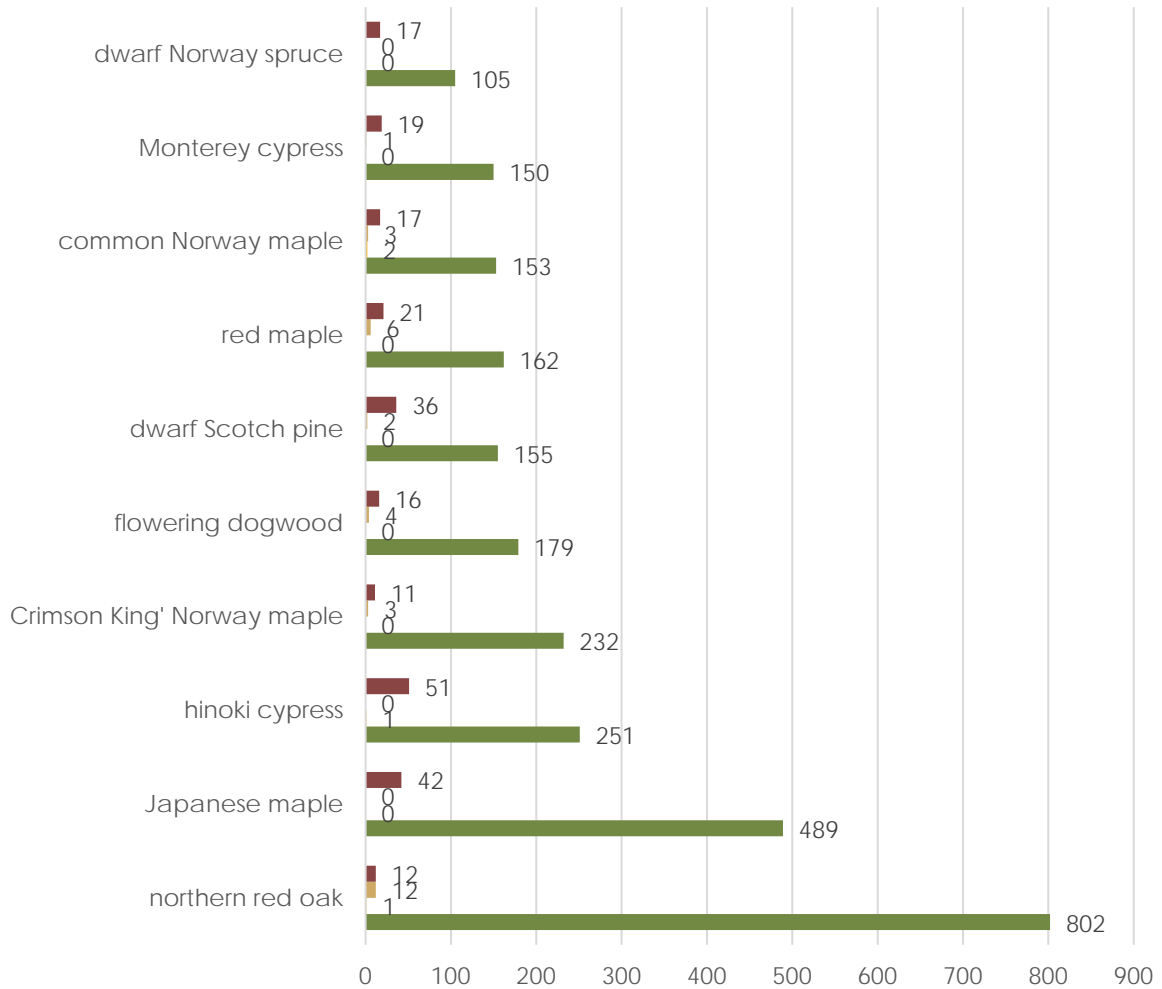
Charbonneau Zone Maps & Charts

14. Status Totals



15. 10 Most Common Tree Species by Status

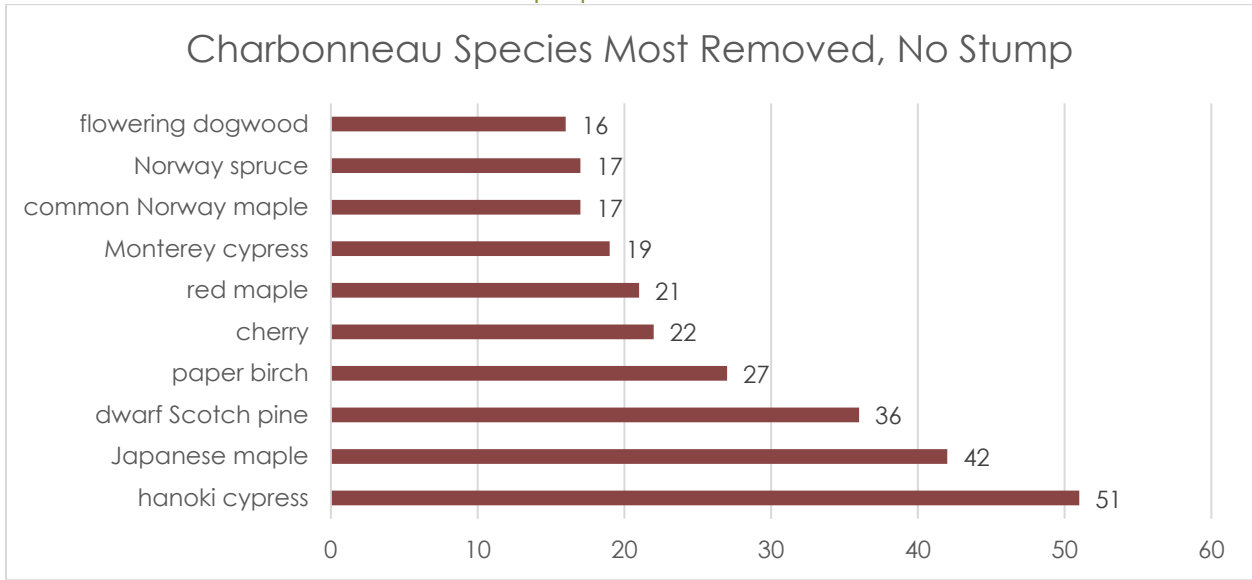
Charbonneau 10 Most Common Species by Tree Status



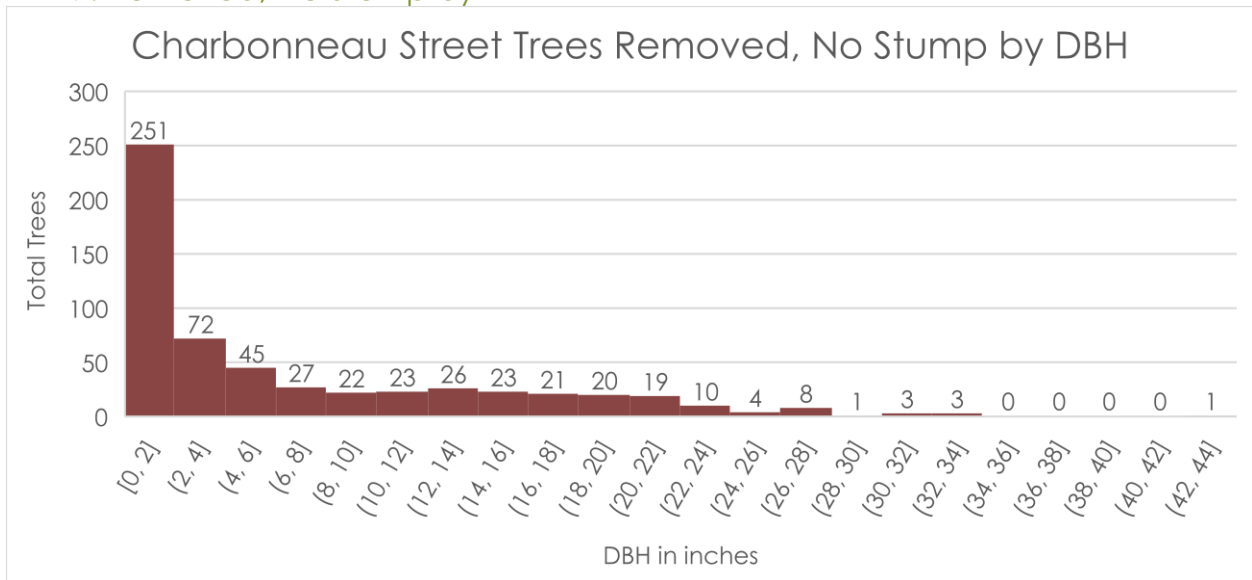
	north ern red oak	Japan ese mapl e	hinoki cypre ss	Crims on King' Norw ay mapl e	flower ing dogw ood	dwarf Scotc h pine	red mapl e	com mon Norw ay mapl e	Mont erey cypre ss	dwarf Norw ay spruc e
Removed, No Stump	12	42	51	11	16	36	21	17	19	17
Removed, Stump Present	12	0	0	3	4	2	6	3	1	0
Damaged, May Need Removal	1	0	1	0	0	0	0	2	0	0
No Damage	802	489	251	232	179	155	162	153	150	105

■ Removed, No Stump ■ Removed, Stump Present
■ Damaged, May Need Removal ■ No Damage

16. 10 Most Removed, No Stump Species



17. Removed, No Stump by DBH



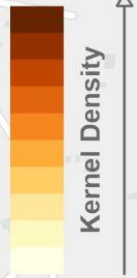
Street Tree Status: Damaged

Charbonneau District

Wilsonville, OR

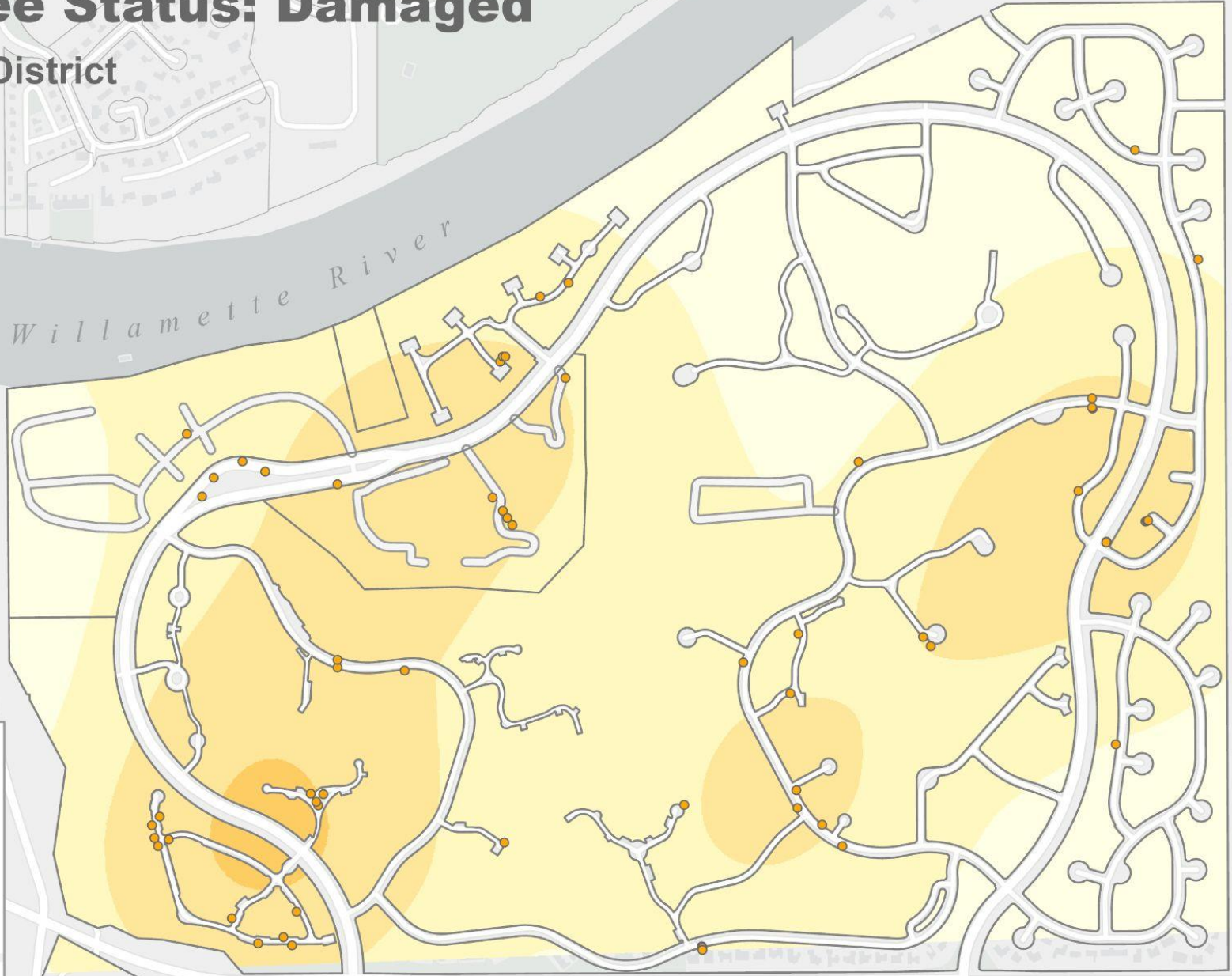
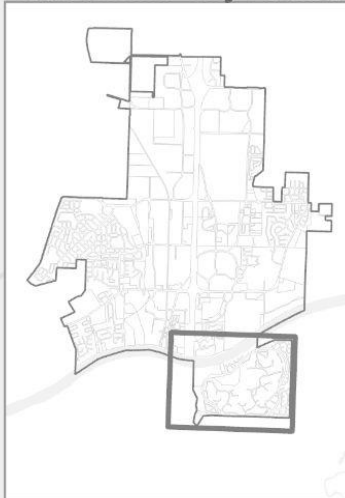
Map prepared by:
Carl Nodzinski

Willamette River



● Damaged

Wilsonville City Limits



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Sources: City of Wilsonville Street Tree Inventory, SDE data

Esri Community Maps Contributors, Oregon Metro, State of Oregon
 GEO, Esri-Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P,
 METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US
 Census Bureau, USDA

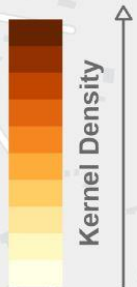
Street Tree Status: Removed, Stump Present

Charbonneau District

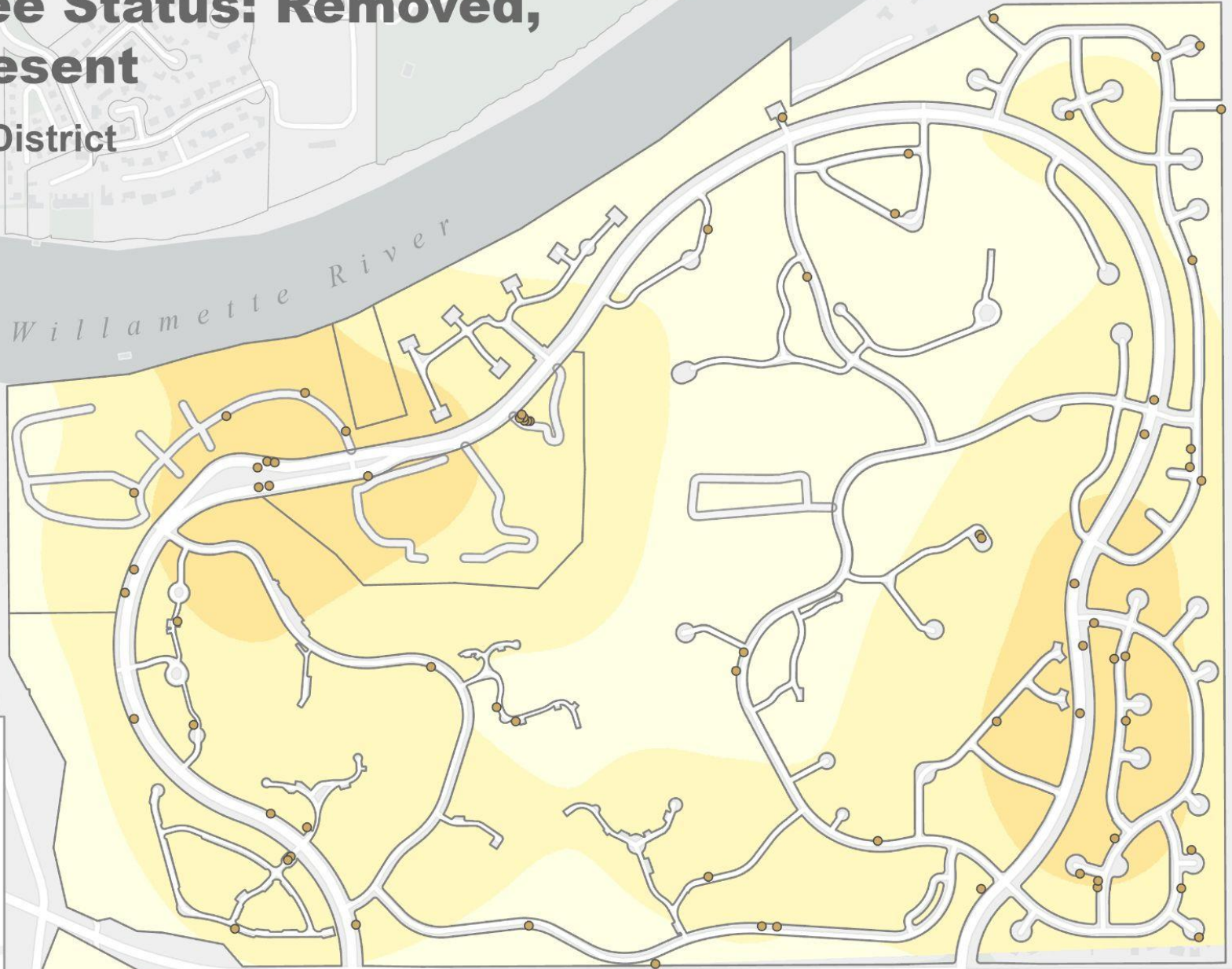
Wilsonville, OR

Map prepared by:
Carl Nodzinski

Willamette River



● Stump Present



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Sources: City of Wilsonville Street Tree Inventory, SDE data
 Esri Community Maps Contributors, Oregon Metro, State of Oregon
 GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P,
 METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US
 Census Bureau, USDA

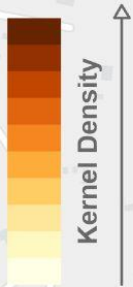
Street Tree Status: Removed, No Stump

Charbonneau District

Wilsonville, OR

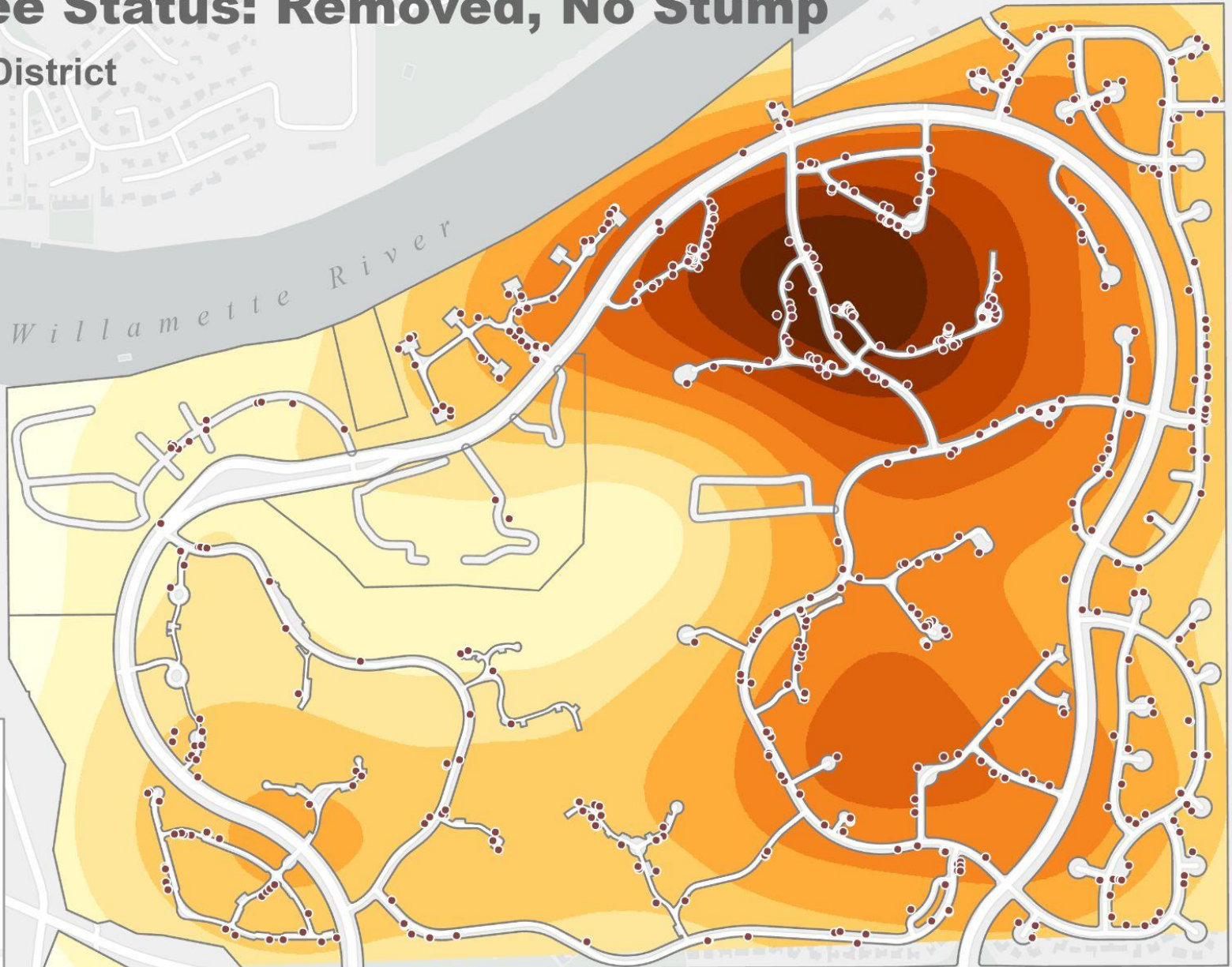
Map prepared by:
Carl Nodzenski

Willamette River



Removed No Stump

Wilsonville City Limits



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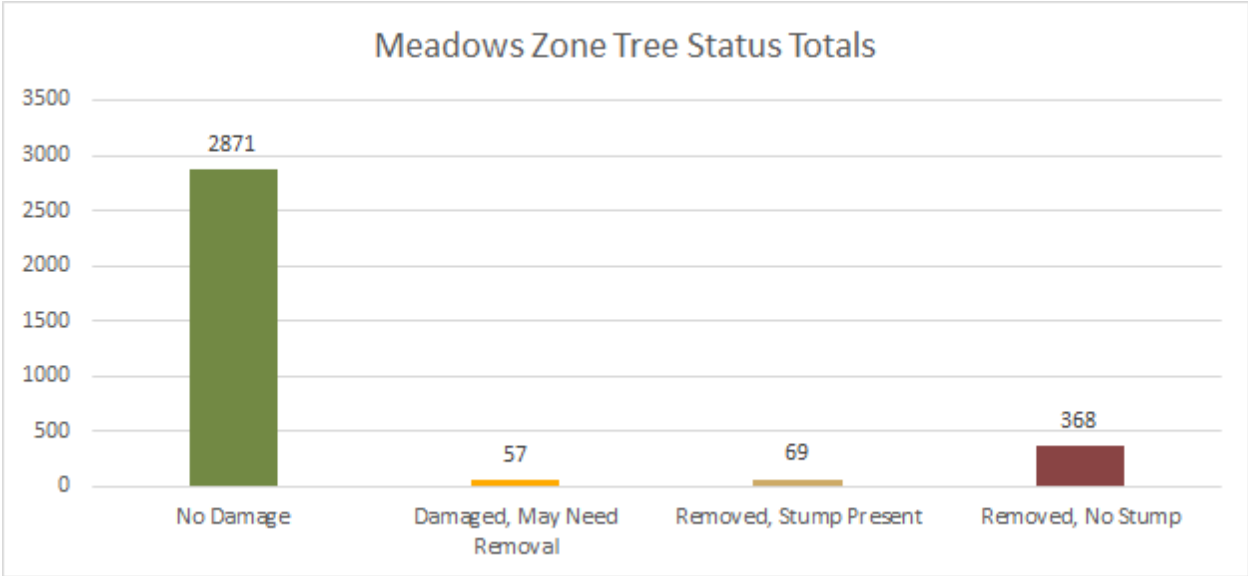


Sources: City of Wilsonville Street Tree Inventory, SDE data

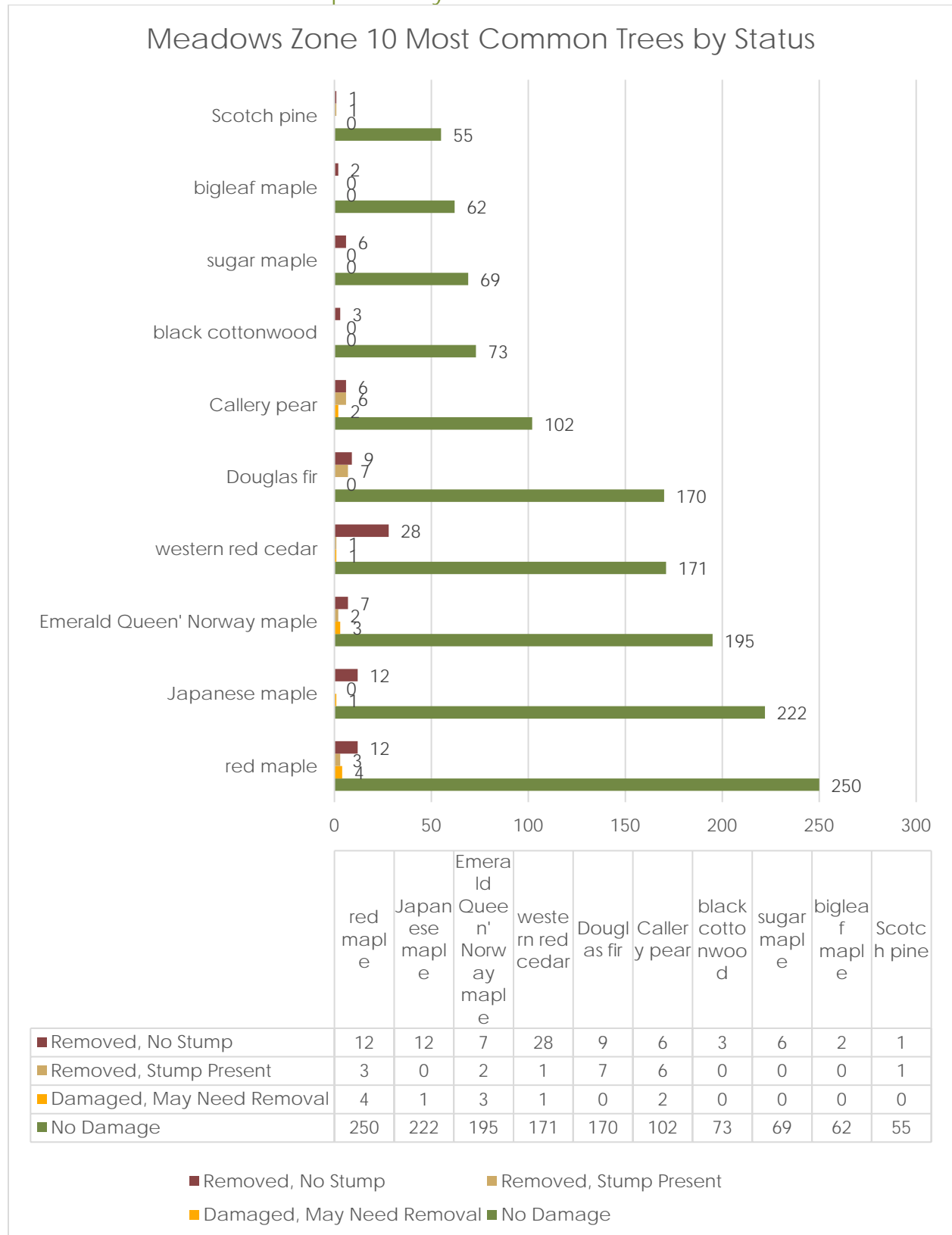
Esri Community Maps Contributors, Oregon Metro, State of Oregon
GEO, Esri-Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P,
METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US
Census Bureau, USDA

Meadows Zone Maps & Charts

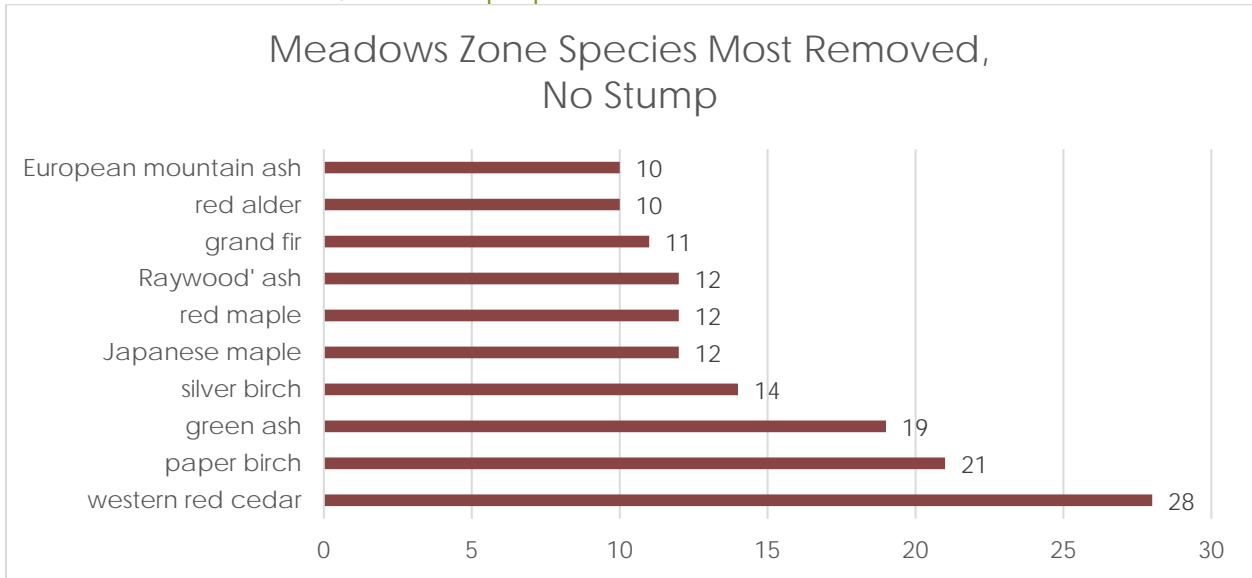
21. Status Totals



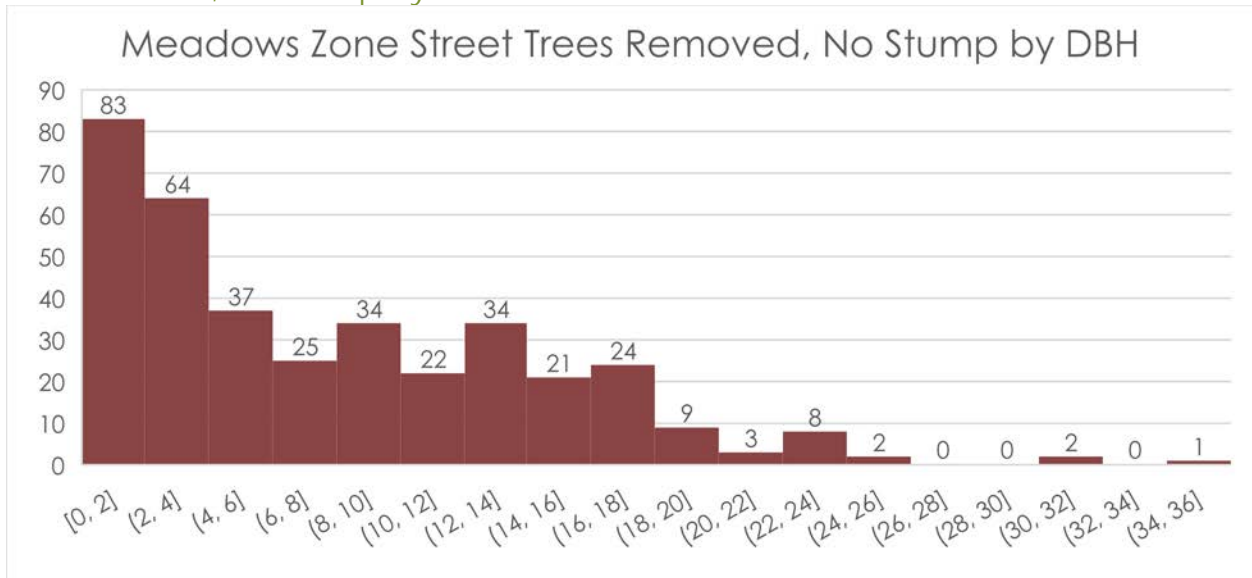
22. 10 Most Common Tree Species by Status



23. 10 Most Removed, No Stump Species



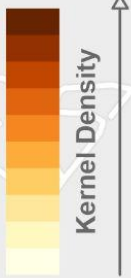
24. Removed, No Stump by DBH



Street Tree Status: Damaged

Meadows Zone Wilsonville, OR

Map prepared by:
Carl Nodzenski



● Damaged
● May Need Removal

Wilsonville City Limits



Sources: City of Wilsonville
Street Tree Inventory, SDE data

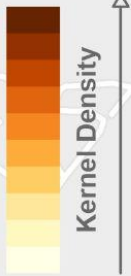
Esri Community Maps Contributors,
Oregon Metro, State of Oregon GEO,
Esri Canada, Esri, HERE, Garmin,
SafeGraph, INCREMENT P, METI/NASA,
USGS, Bureau of Land Management,
EPA, NPS, US Census Bureau, USDA

Street Tree Status: Removed, Stump Present

Meadows Zone
Wilsonville, OR

26.

Map prepared by:
Carl Nodzinski



● Removed, Stump Present

Wilsonville City Limits



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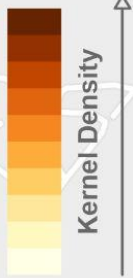
Sources: City of Wilsonville
Street Tree Inventory, SDE data

Esri Community Maps Contributors,
Oregon Metro, State of Oregon GEO,
Esri Canada, Esri, HERE, Garmin,
SafeGraph, INCREMENT P, METI/NASA,
USGS, Bureau of Land Management,
EPA, NPS, US Census Bureau, USDA

Street Tree Status: Removed, No Stump

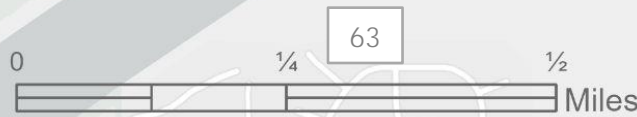
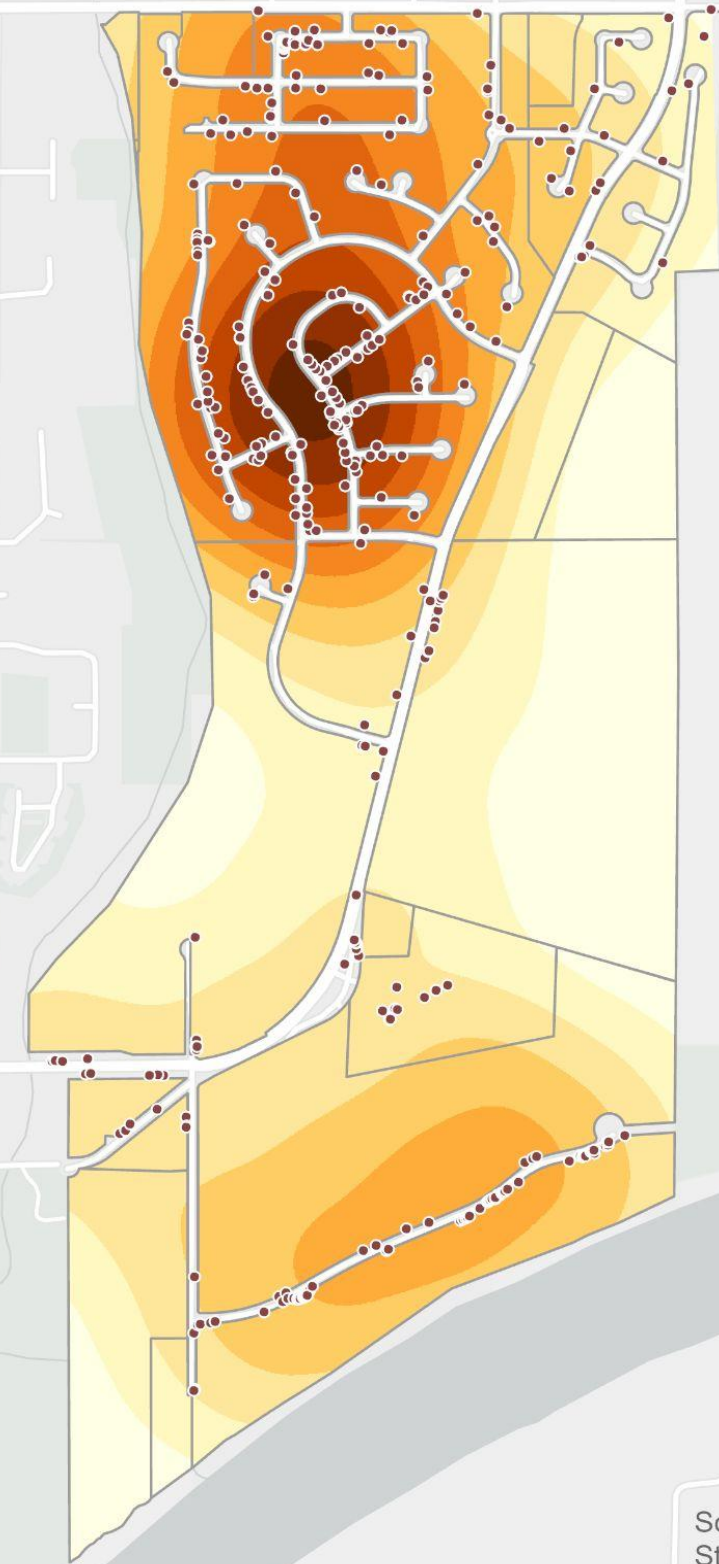
Meadows Zone Wilsonville, OR

Map prepared by:
Carl Nodzenski



• Removed No Stump

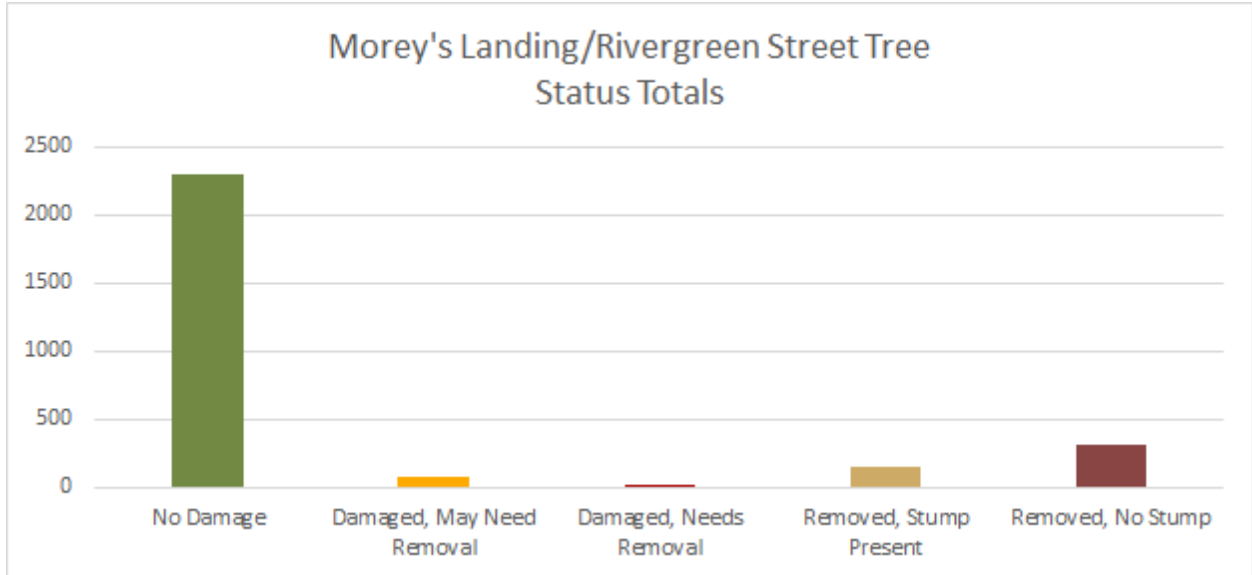
Wilsonville City Limits



Sources: City of Wilsonville Street Tree Inventory, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

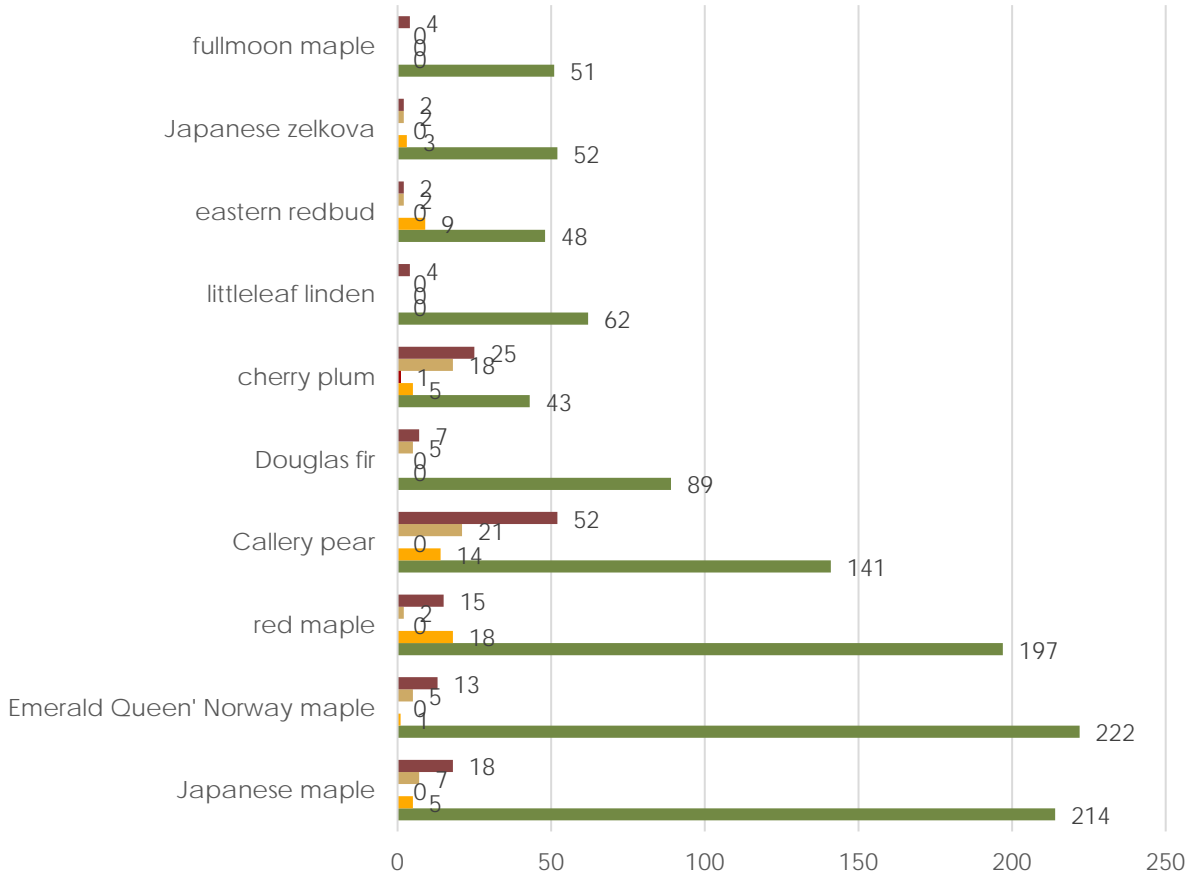
Morey's Landing/Rivergreen Zone Maps & Charts

28. Status Totals



29. 10 Most Common Tree Species

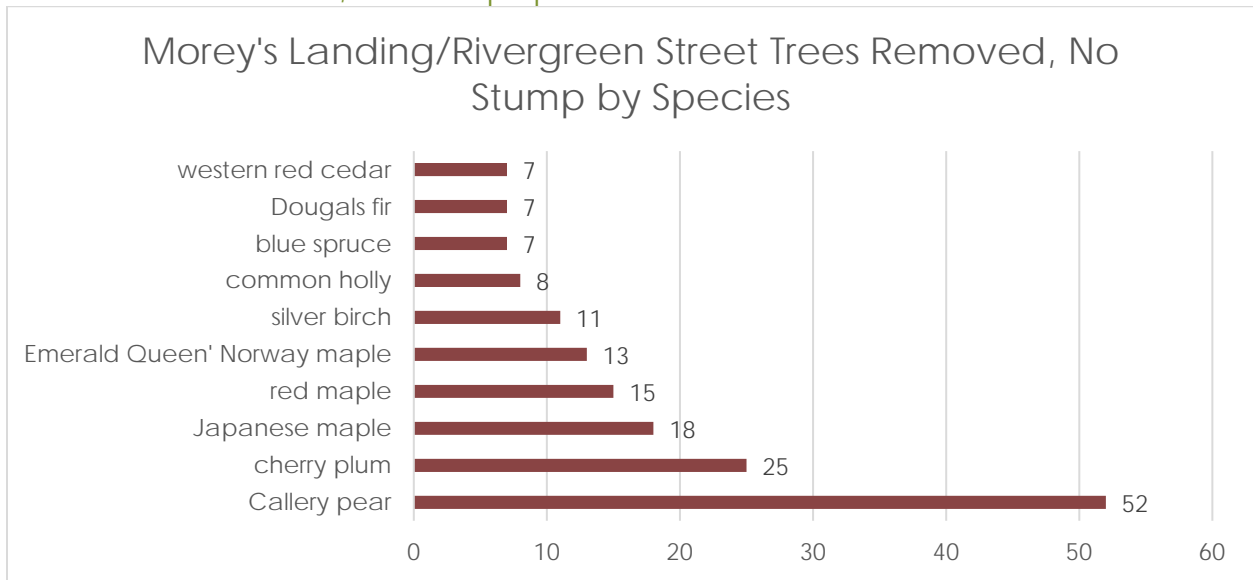
Morey's Landing/Rivergreen 10 Most Common Trees by Status



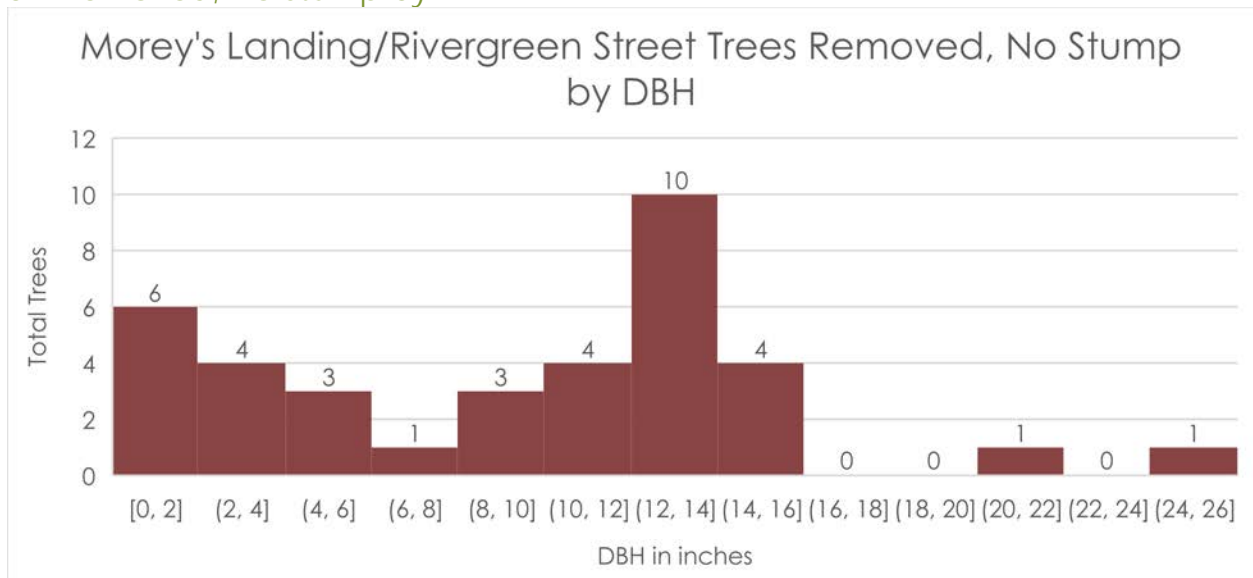
	Japanese maple	Emerald Queen' Norway maple	red maple	Callery pear	Douglas fir	cherry plum	littleleaf linden	eastern redbud	Japanese zelkova	fullmoon maple
Removed, No Stump	18	13	15	52	7	25	4	2	2	4
Removed, Stump Present	7	5	2	21	5	18	0	2	2	0
Damaged, Needs Removal	0	0	0	0	0	1	0	0	0	0
Damaged, May Need Removal	5	1	18	14	0	5	0	9	3	0
No Damage	214	222	197	141	89	43	62	48	52	51

- Removed, No Stump
- Removed, Stump Present
- Damaged, Needs Removal
- Damaged, May Need Removal
- No Damage

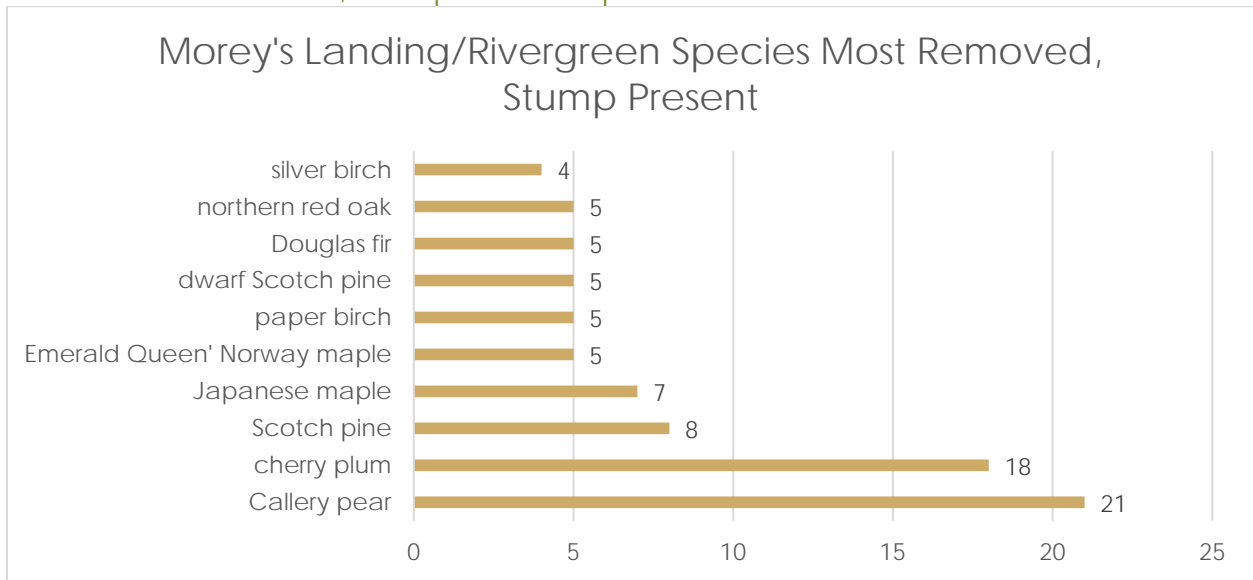
30. 10 Most Removed, No Stump Species



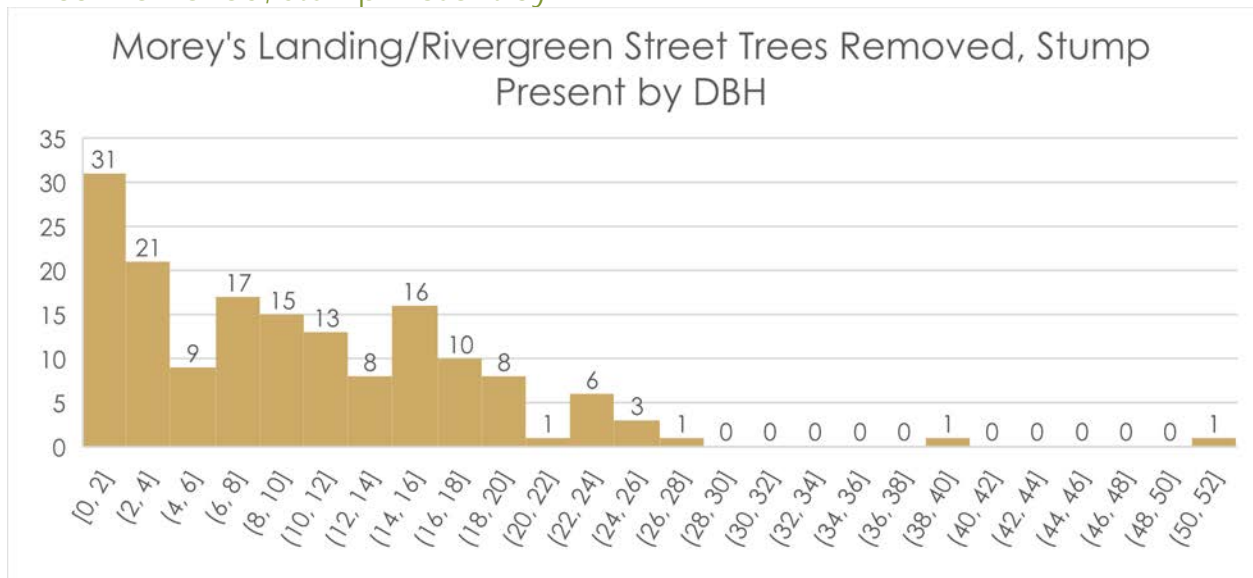
31. Removed, No Stump by DBH



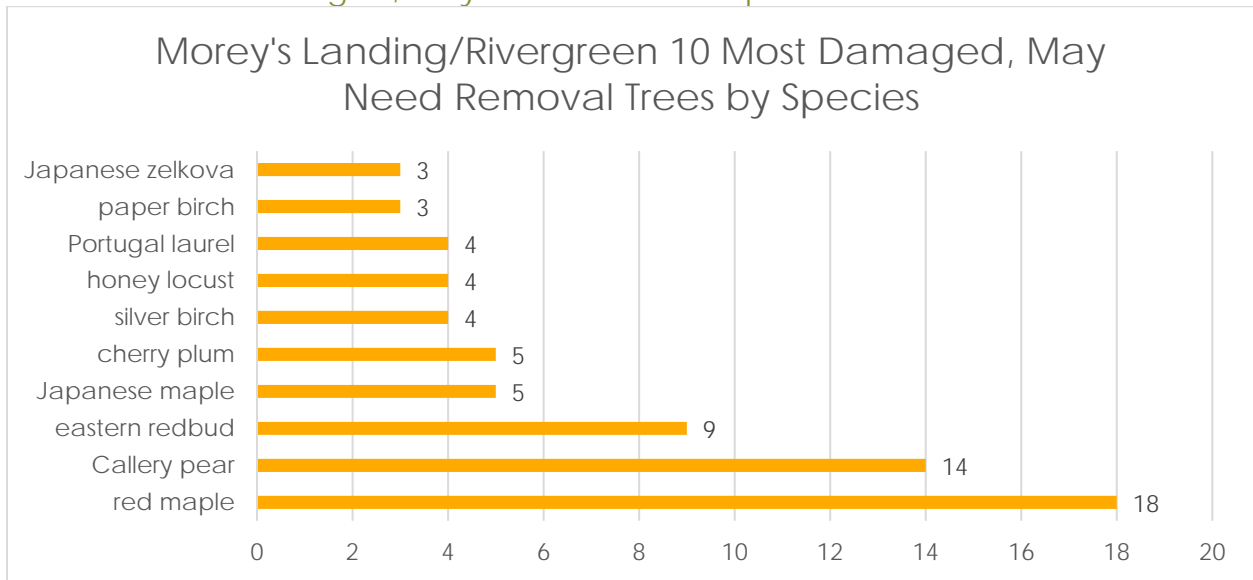
32. 10 Most Removed, Stump Present Species



33. Removed, Stump Present by DBH



34.10 Most Damaged, May Need Removal Species

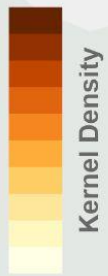


Street Tree Status: Removed, Stump Present

Morey's Landing / Rivergreen Zone

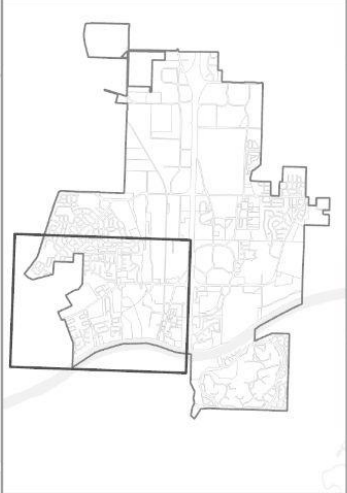
Wilsonville, OR

Map prepared by:
Carl Nodzinski



● Removed, Stump Present

Wilsonville City Limits



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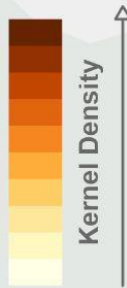
Sources: City of Wilsonville Street Tree Inventory, SDE data
 Esri Community Maps Contributors, Oregon Metro, State of Oregon
 GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P,
 METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US
 Census Bureau, USDA

Street Tree Status: Damaged

Morey's Landing / Rivergreen Zone

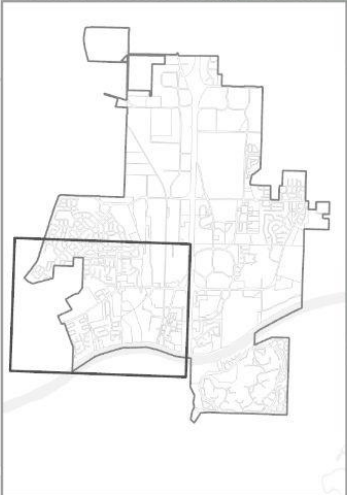
Wilsonville, OR

Map prepared by:
Carl Nodzinski



- Damaged May Need Removal
- Damaged Needs Removal

Wilsonville City Limits



Sources: City of Wilsonville Street Tree Inventory, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon
GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P,
METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US
Census Bureau, USDA

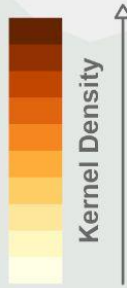


Street Tree Status: Removed, No Stump

Morey's Landing / Rivergreen Zone

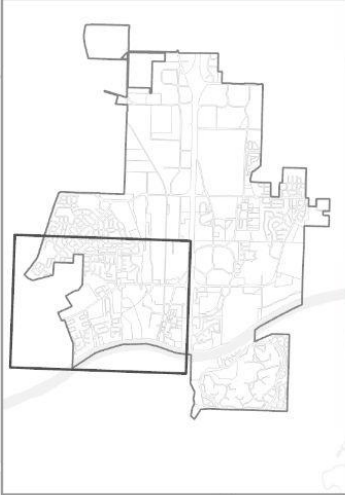
Wilsonville, OR

Map prepared by:
Carl Nodzinski



• Removed No Stump

Wilsonville City Limits



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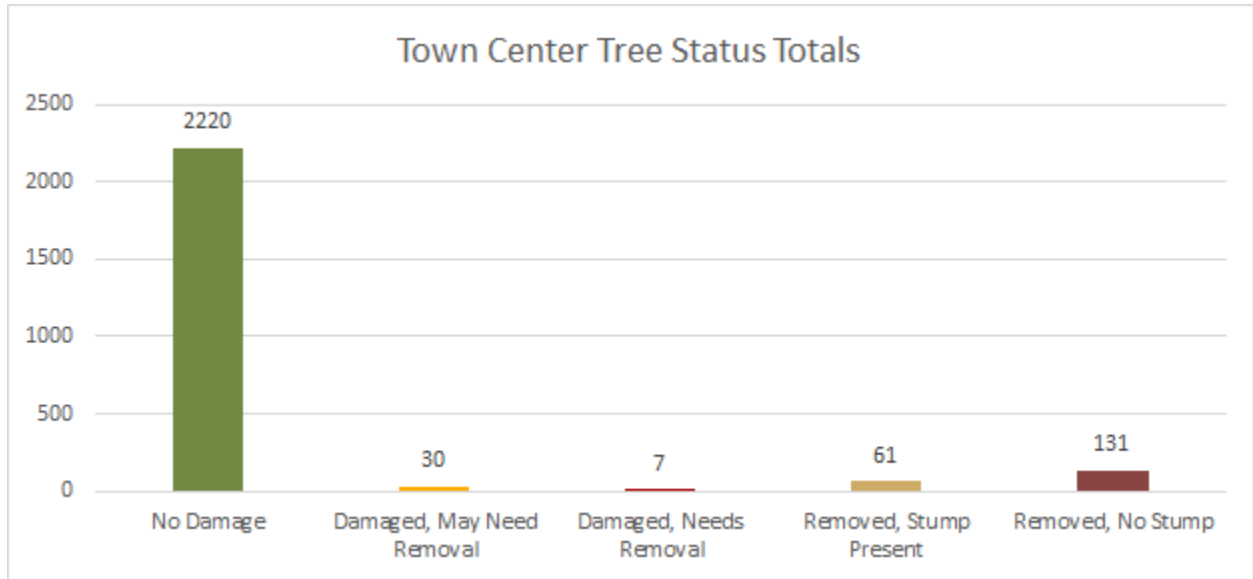
Sources: City of Wilsonville Street Tree Inventory, SDE data

Esri Community Maps Contributors, Oregon Metro, State of Oregon
GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P,
METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US
Census Bureau, USDA



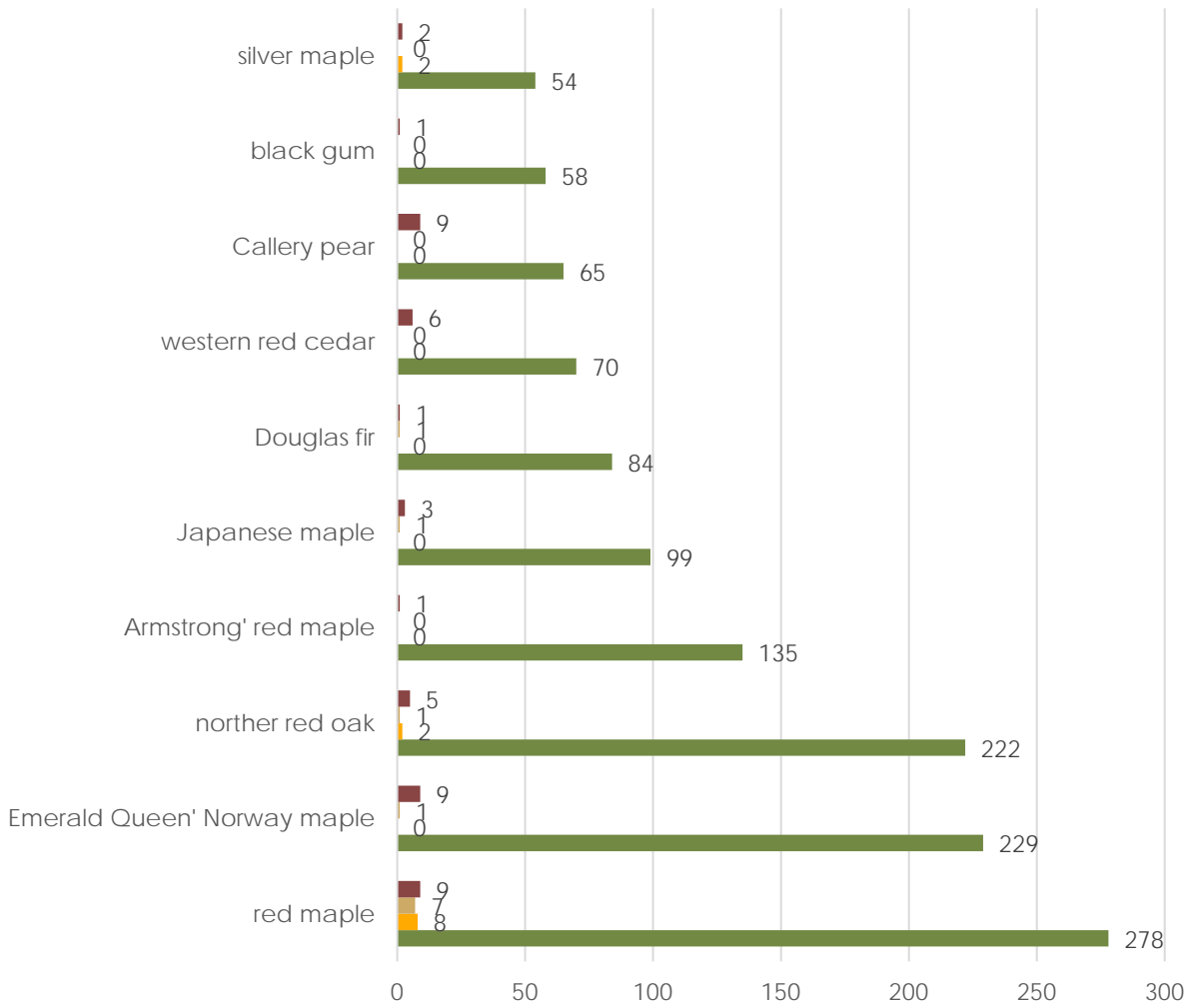
Town Center Zone

38. Status Totals



39.10 Most Common Tree Species by Status

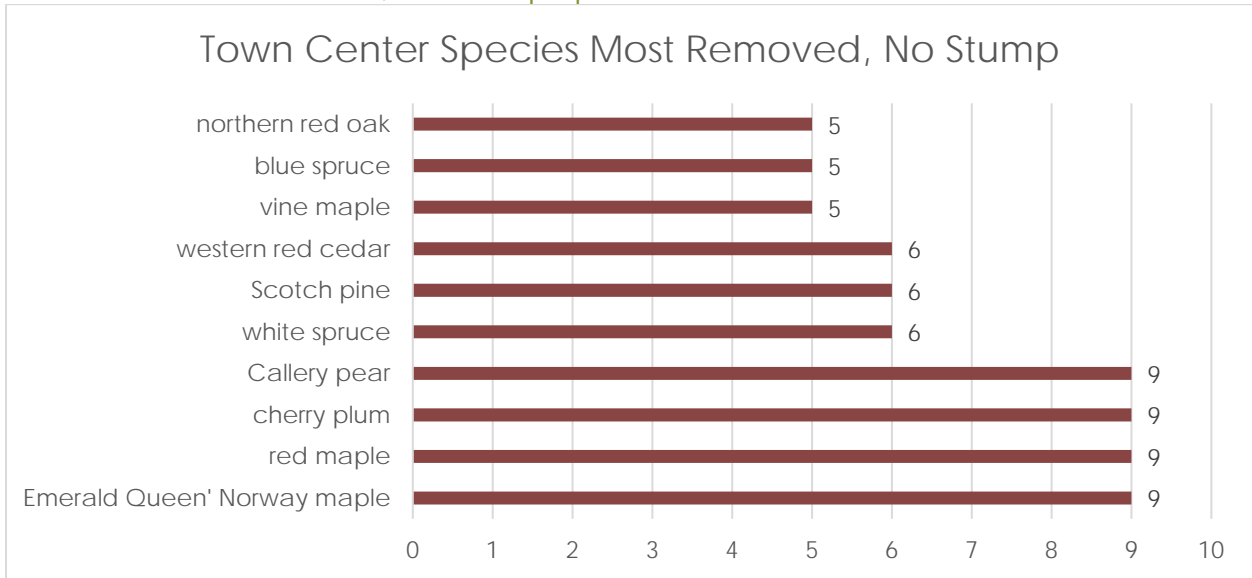
Town Center 10 Most Common Species by Status



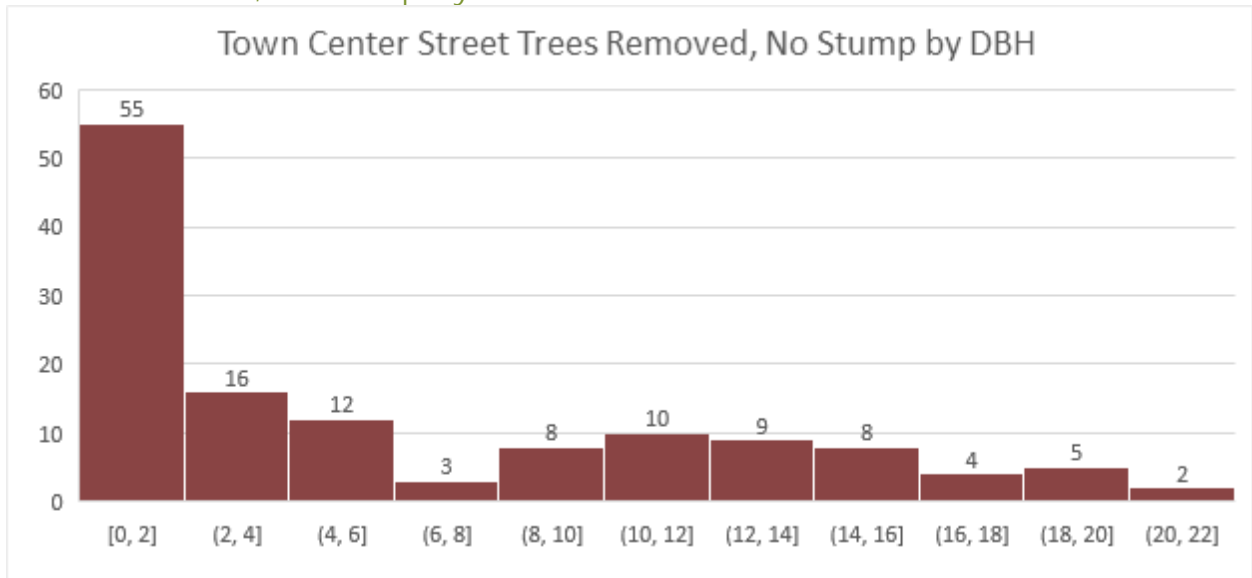
	red maple	Emerald Queen' Norway maple	norther red oak	Armstrong' red maple	Japanese maple	Douglas fir	western red cedar	Callery pear	black gum	silver maple
Removed, No Stump	9	9	5	1	3	1	6	9	1	2
Removed, Stump Present	7	1	1	0	1	1	0	0	0	0
Damaged, May Need Removal	8	0	2	0	0	0	0	0	0	2
No Damage	278	229	222	135	99	84	70	65	58	54

■ Removed, No Stump ■ Removed, Stump Present
■ Damaged, May Need Removal ■ No Damage

40.10 Most Removed, No Stump Species



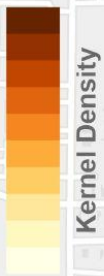
41. Removed, No Stump by DBH



Street Tree Status: Damaged

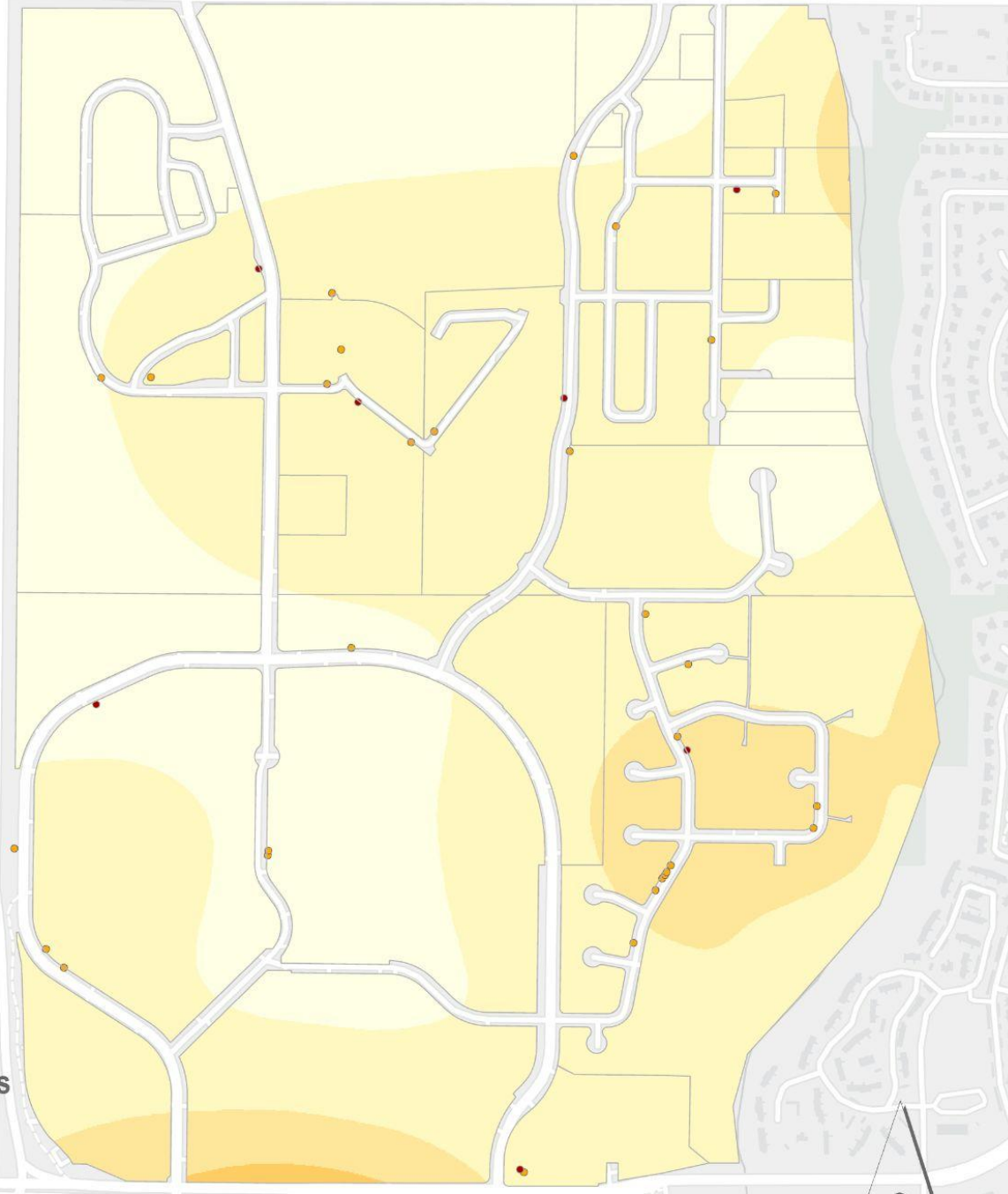
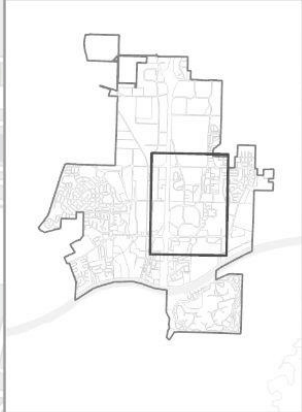
Town Center Zone
Wilsonville, OR

Map prepared by:
Carl Nodzinski



- Damaged
May Need Removal
- Damaged
Needs Removal

Wilsonville City Limits



Sources: City of Wilsonville Street Tree Inventory, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

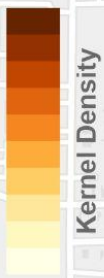
Street Tree Status: Removed, Stump Present

Town Center Zone

Wilsonville, OR

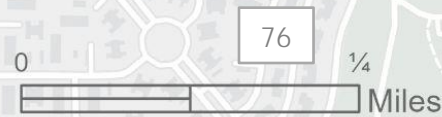
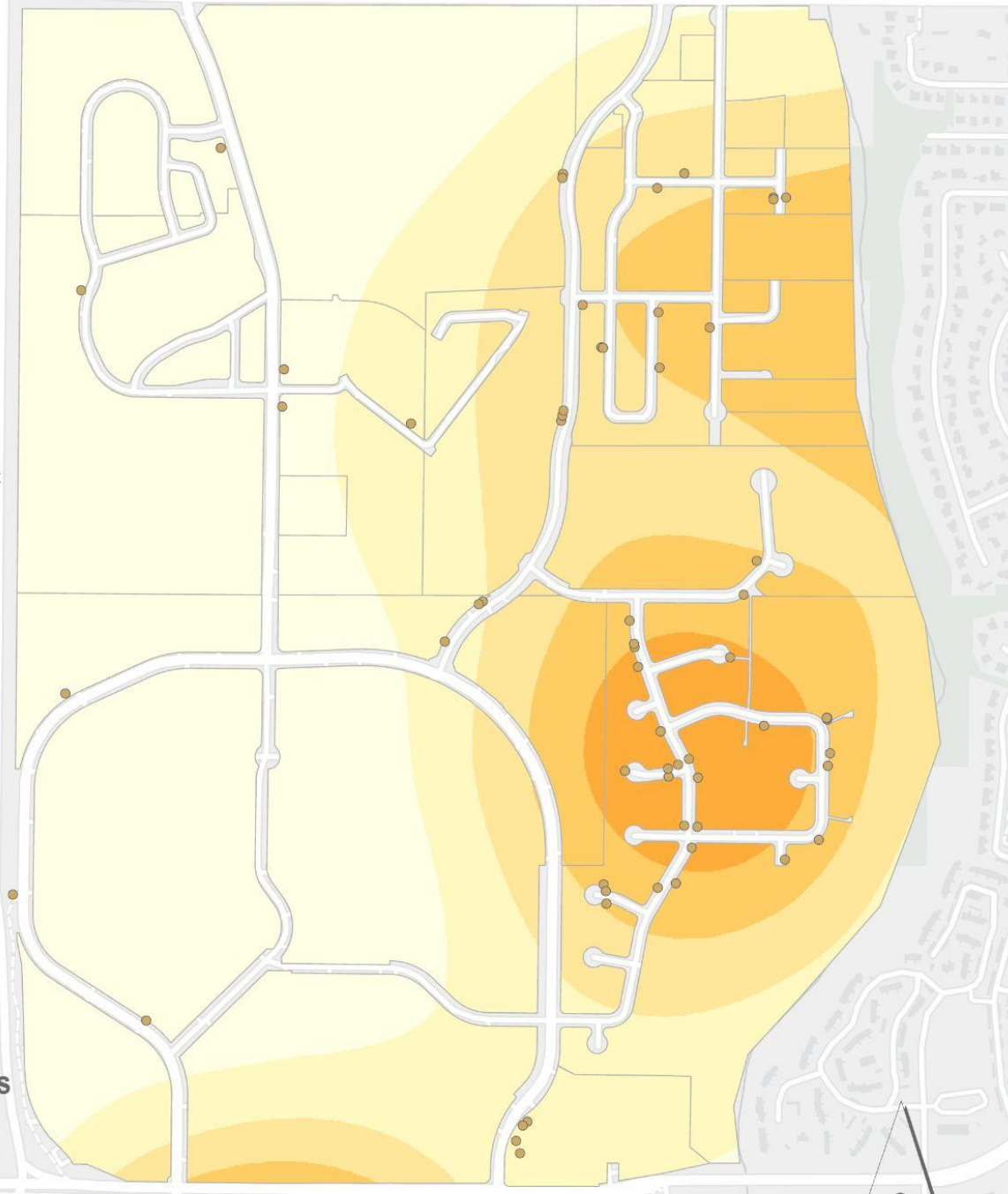
Map prepared by:
Carl Nodzinski

43.



● Removed, Stump Present

Wilsonville City Limits



Sources: City of Wilsonville Street Tree Inventory, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

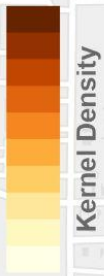
Street Tree Status: Removed, No Stump

44.

Town Center Zone

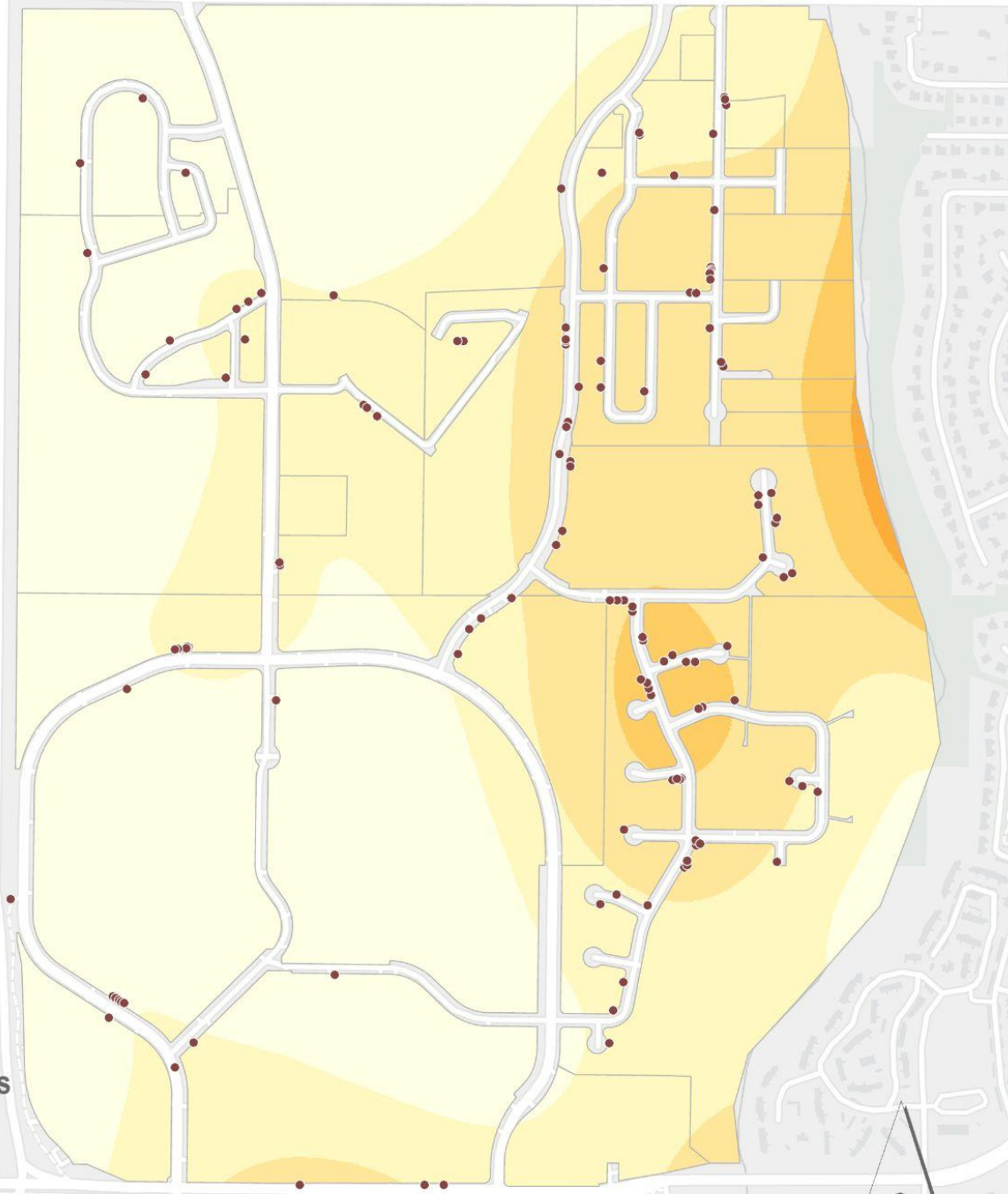
Wilsonville, OR

Map prepared by:
Carl Nodzinski



• Removed No Stump

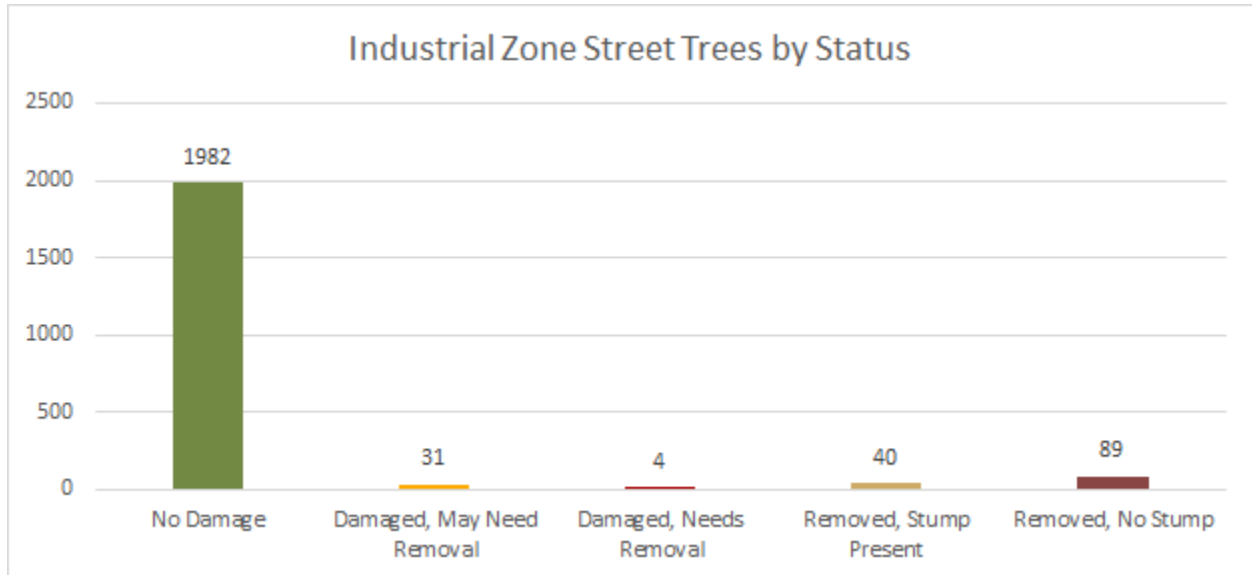
Wilsonville City Limits



Sources: City of Wilsonville Street Tree Inventory, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

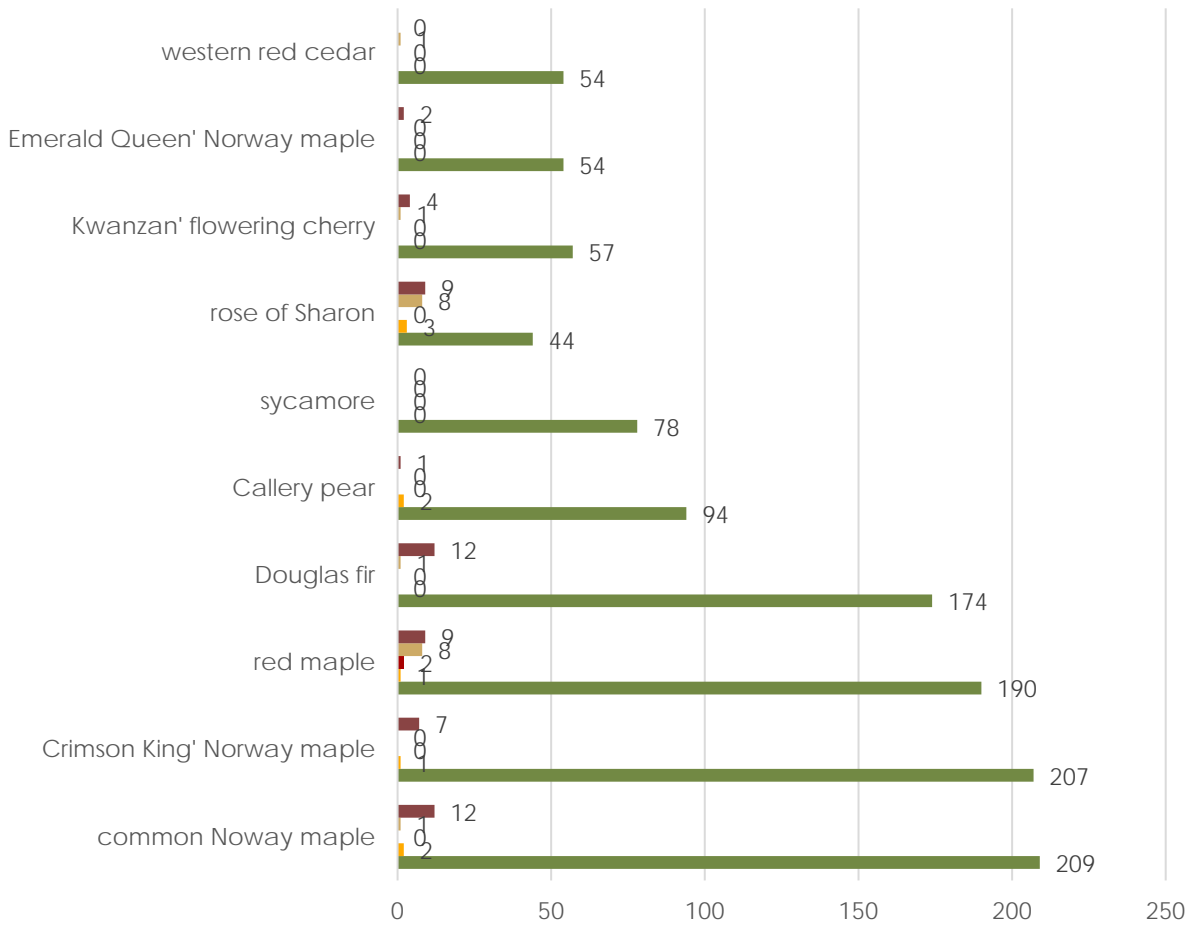
Industrial Zone

45. Status Totals

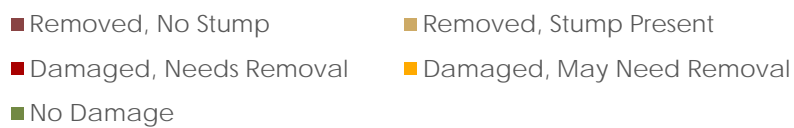


46.10 Most Common Tree Species by Status

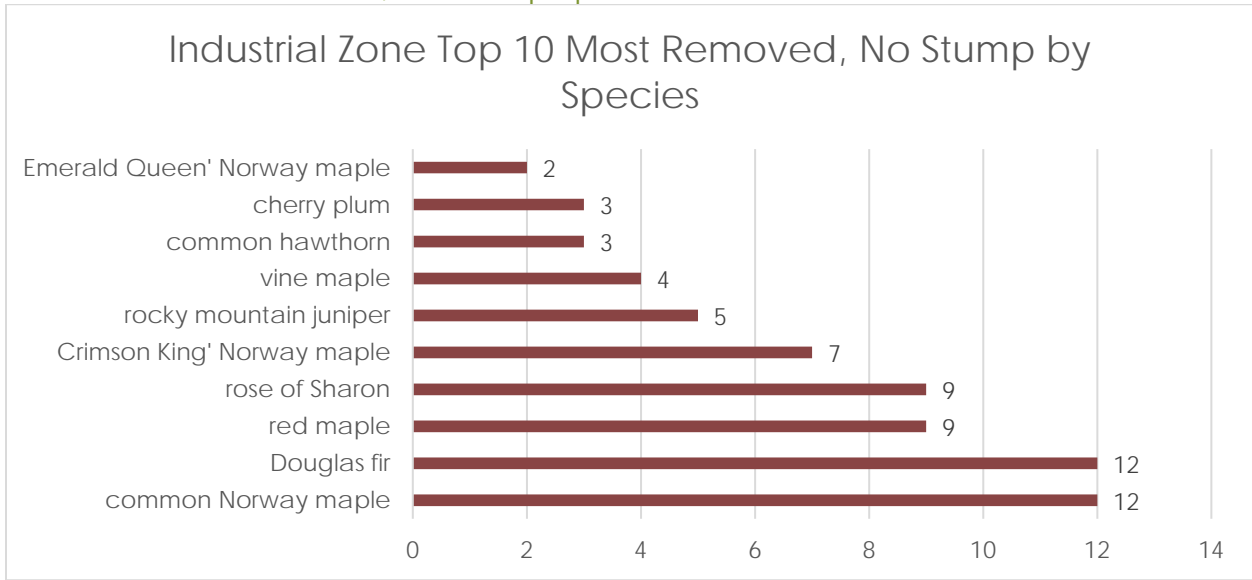
Industrial Zone 10 Most Common Street Trees by Status



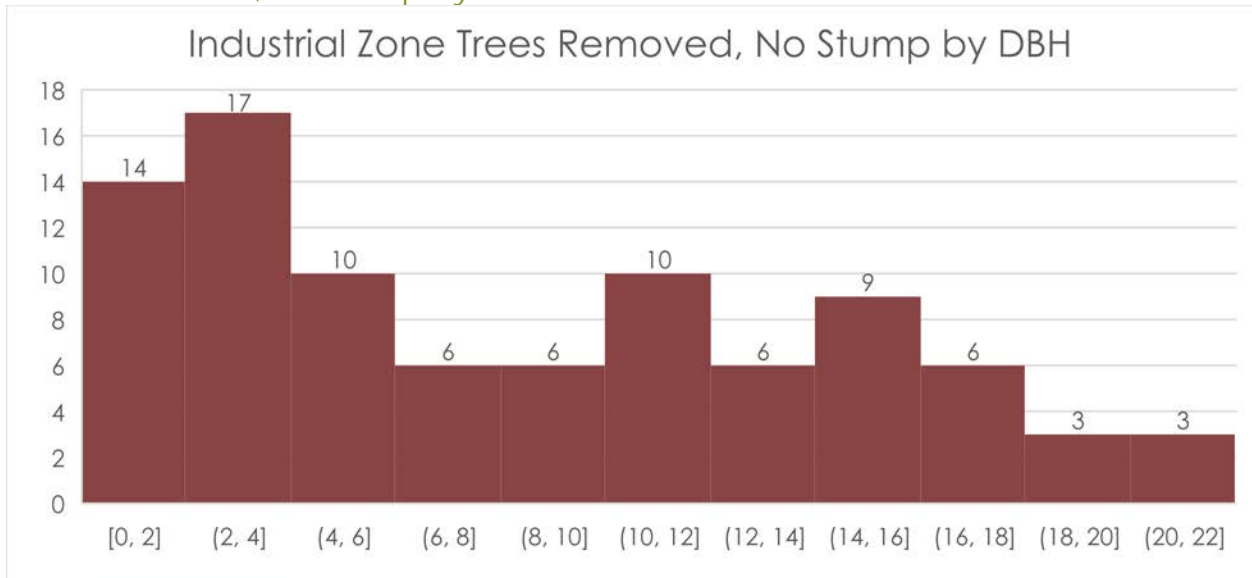
	com mon Nowa y mapl e	Crims on King' Norw ay mapl e	red mapl e	Dougl as fir	Call ery pear	syc amore	rose of Shar on	Kwanz an' flow er ing cherry	Emer ald Quee n' Norw ay mapl e	weste rn red cedar
Removed, No Stump	12	7	9	12	1	0	9	4	2	0
Removed, Stump Present	1	0	8	1	0	0	8	1	0	1
Damaged, Needs Removal	0	0	2	0	0	0	0	0	0	0
Damaged, May Need Removal	2	1	1	0	2	0	3	0	0	0
No Damage	209	207	190	174	94	78	44	57	54	54



47.10 Most Removed, No Stump Species



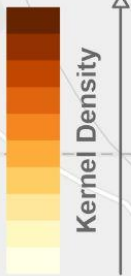
48. Removed, No Stump by DBH



Street Tree Status: Damaged

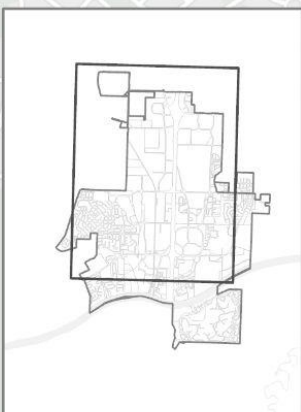
Industrial Zone
Wilsonville, OR

Map prepared by:
Carl Nodzenski



- Damaged May Need Removal
- Damaged Needs Removal

Wilsonville City Limits



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Sources: City of Wilsonville Street Tree Inventory 2021, SDE data Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

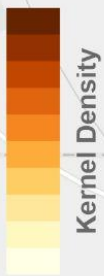


Street Tree Status: Removed, Stump Present

50.

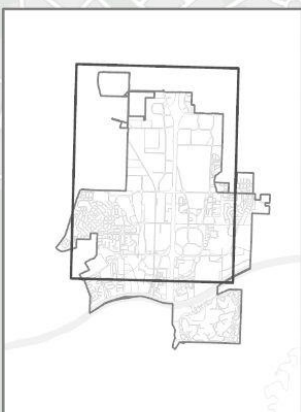
Industrial Zone
Wilsonville, OR

Map prepared by:
Carl Nodzenski



● Removed, Stump Present

Wilsonville City Limits



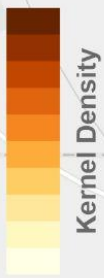
82

Sources: City of Wilsonville Street Tree Inventory 2021, SDE data
Oregon Metro, State of Oregon GEO, Esri
Canada, Esri, HERE, Garmin, SafeGraph,
INCREMENT P, METI/NASA, USGS, Bureau of
Land Management, EPA, NPS, US Census
Bureau, USDA

Street Tree Status: Removed, No Stump

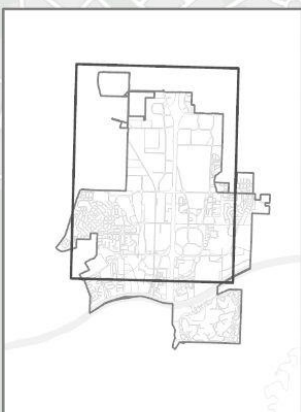
Industrial Zone
Wilsonville, OR

Map prepared by:
Carl Nodzenski



• Removed No Stump

Wilsonville City Limits



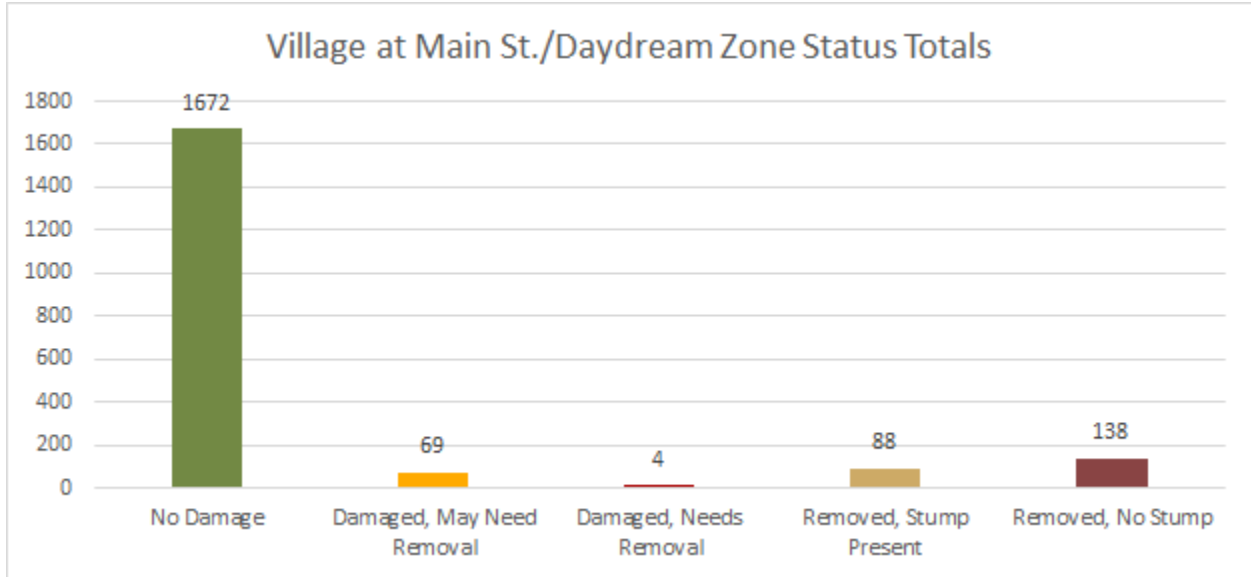
83



Sources: City of Wilsonville Street Tree Inventory 2021, SDE data
Oregon Metro, State of Oregon GEO, Esri
Canada, Esri, HERE, Garmin, SafeGraph,
INCREMENT P, METI/NASA, USGS, Bureau of
Land Management, EPA, NPS, US Census
Bureau, USDA

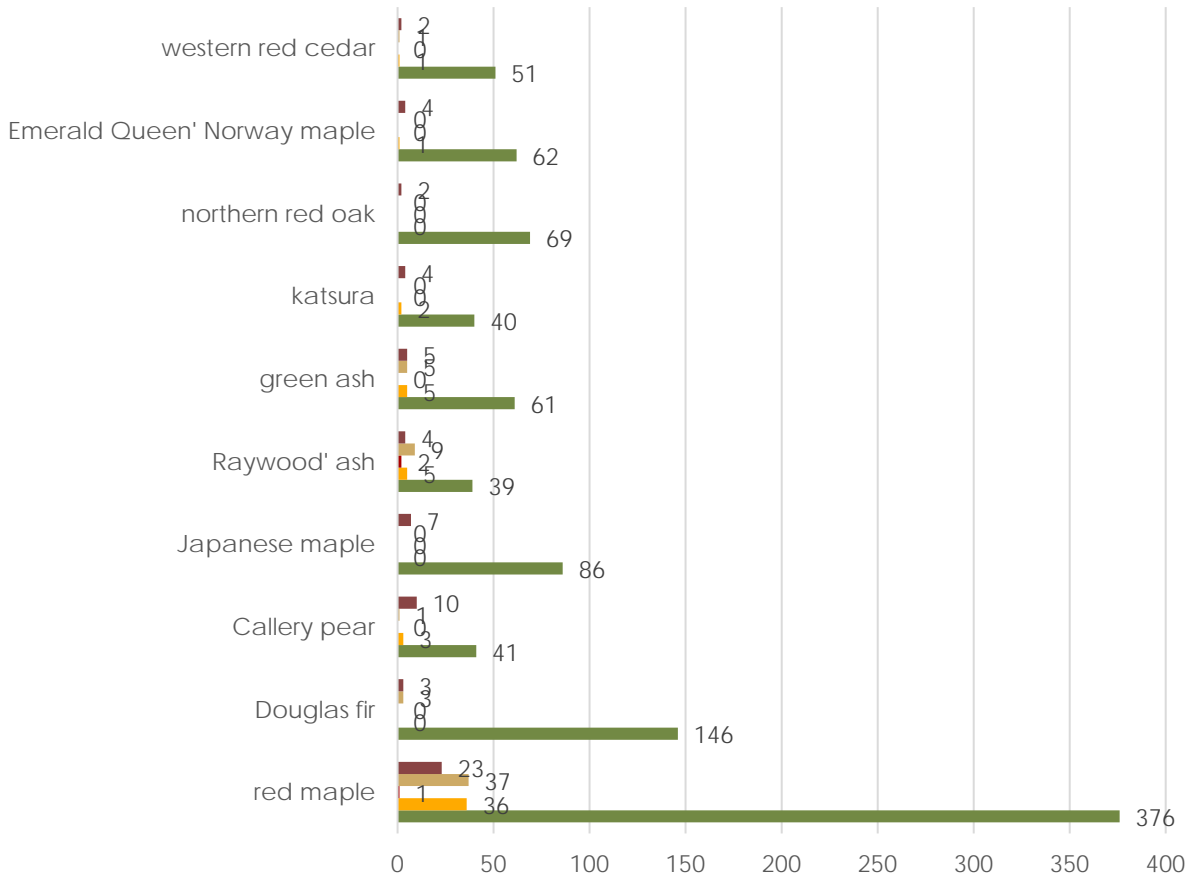
Village at Main St./Daydream Zone

52. Status Totals



53.10 Most Common Tree Species by Status

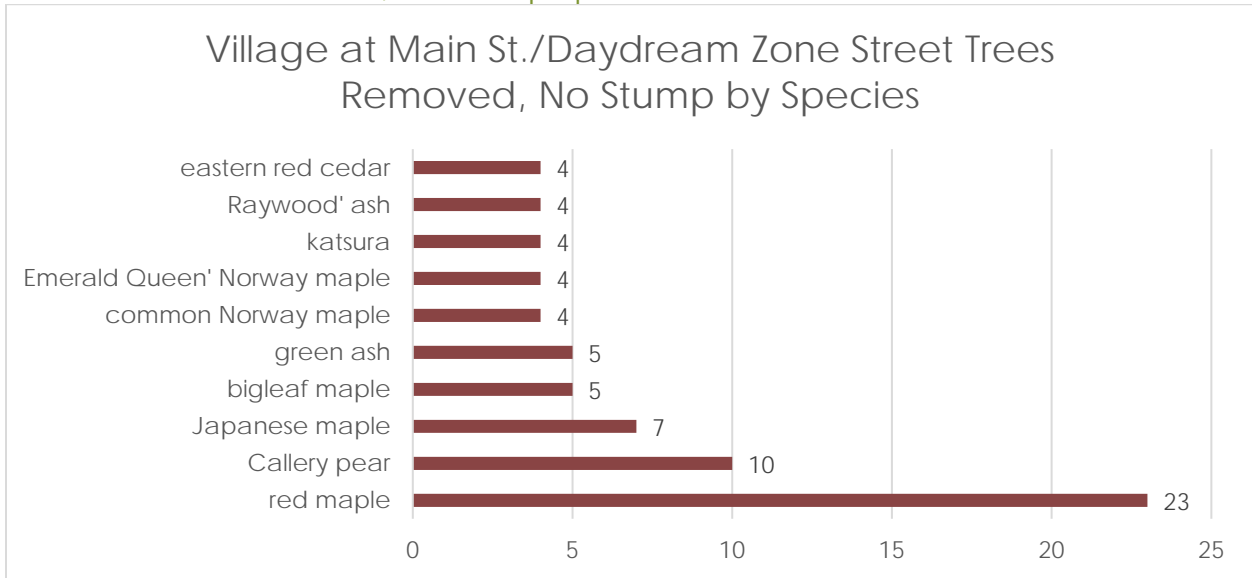
Village at Main St./Daydream Zone 10 Most Common Species by Status



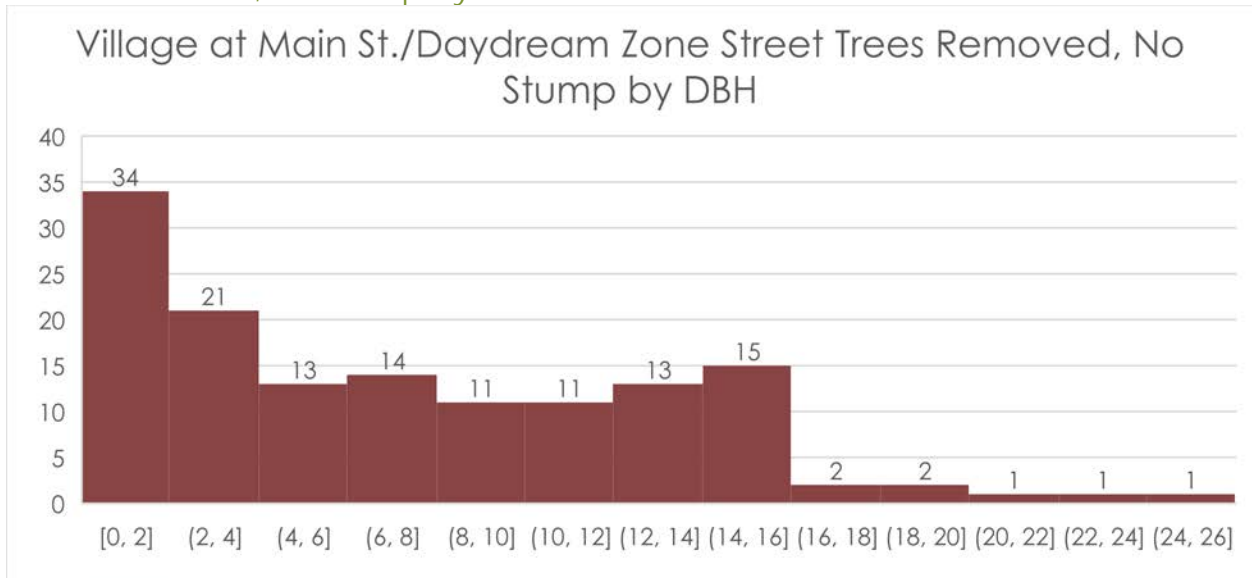
	red maple	Douglas fir	Callery pear	Japanese maple	Raywood' ash	green ash	katsura	northern red oak	Emerald Queen' Norway maple	western red cedar
Removed, No Stump	23	3	10	7	4	5	4	2	4	2
Removed, Stump Present	37	3	1	0	9	5	0	0	0	1
Damaged, Needs Removal	1	0	0	0	2	0	0	0	0	0
Damaged, May Need Removal	36	0	3	0	5	5	2	0	1	1
No Damage	376	146	41	86	39	61	40	69	62	51

- Removed, No Stump
- Removed, Stump Present
- Damaged, Needs Removal
- Damaged, May Need Removal
- No Damage

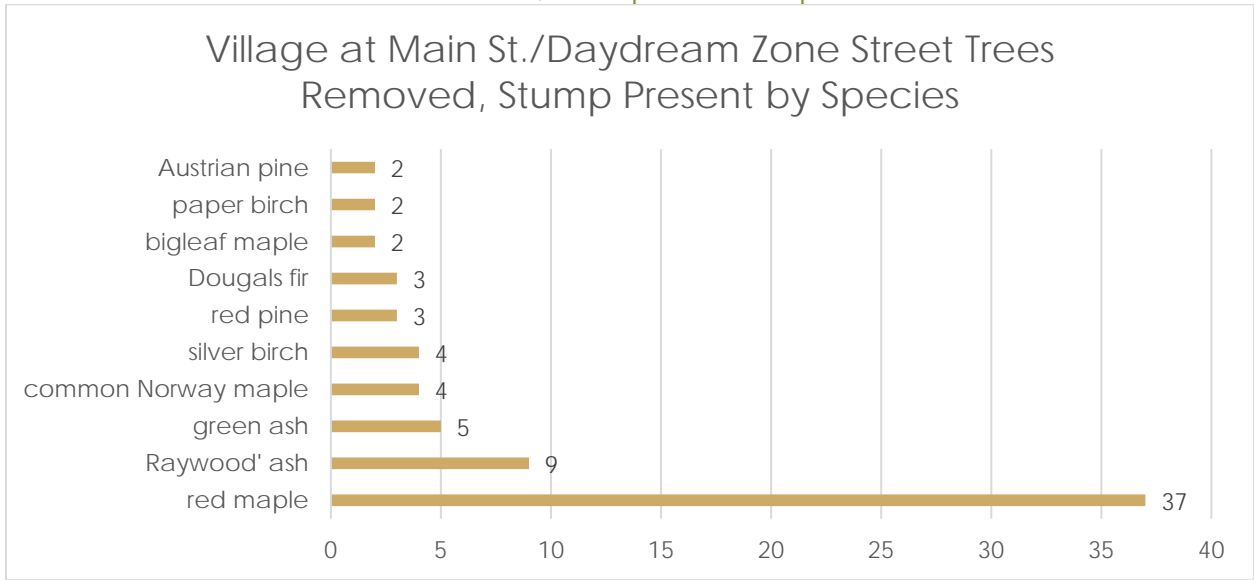
54.10 Most Removed, No Stump Species



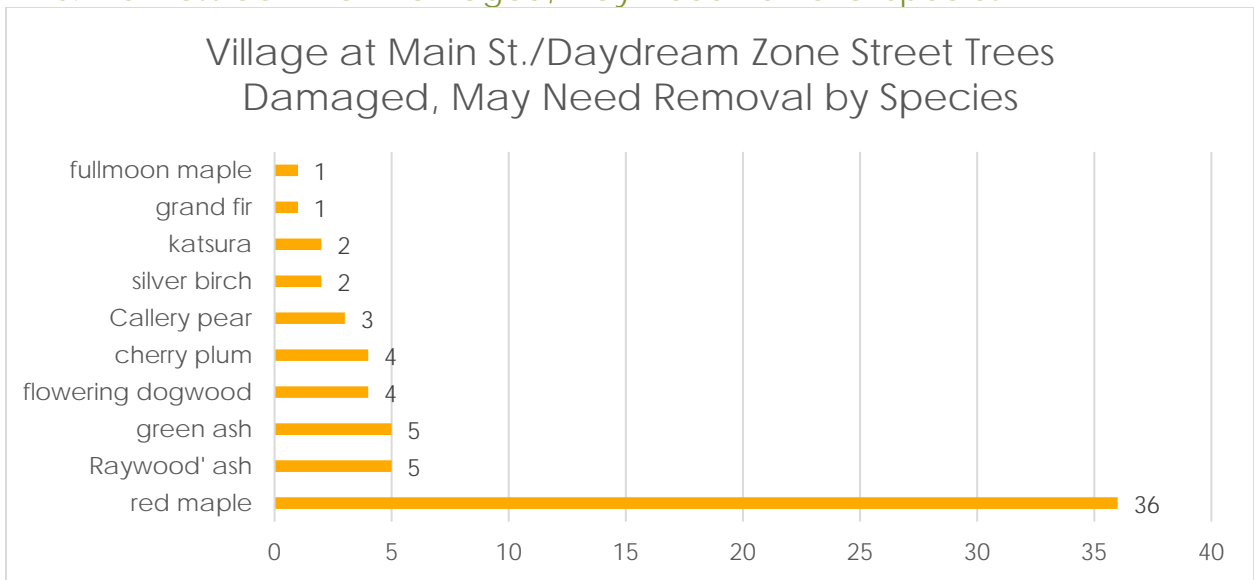
55. Removed, No Stump by DBH



56.10 Most Common Removed, Stump Present Species



57.10 Most Common Damaged, May Need Removal Species

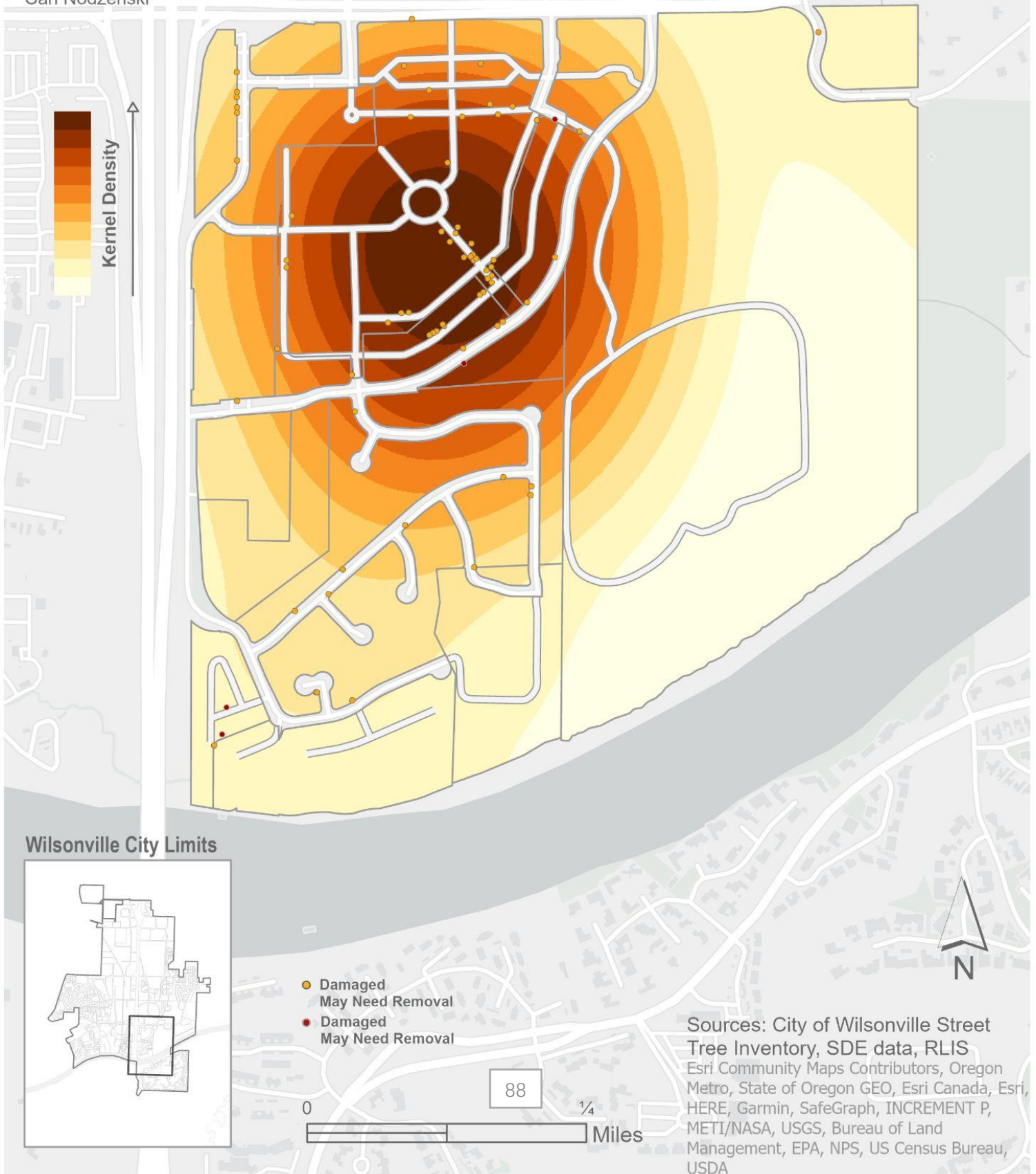


Street Tree Status: Damaged

Village at Main St./Daydream Zone

Wilsonville, OR

Map prepared by:
Carl Nodzinski



Sources: City of Wilsonville Street Tree Inventory, SDE data, RLIS Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

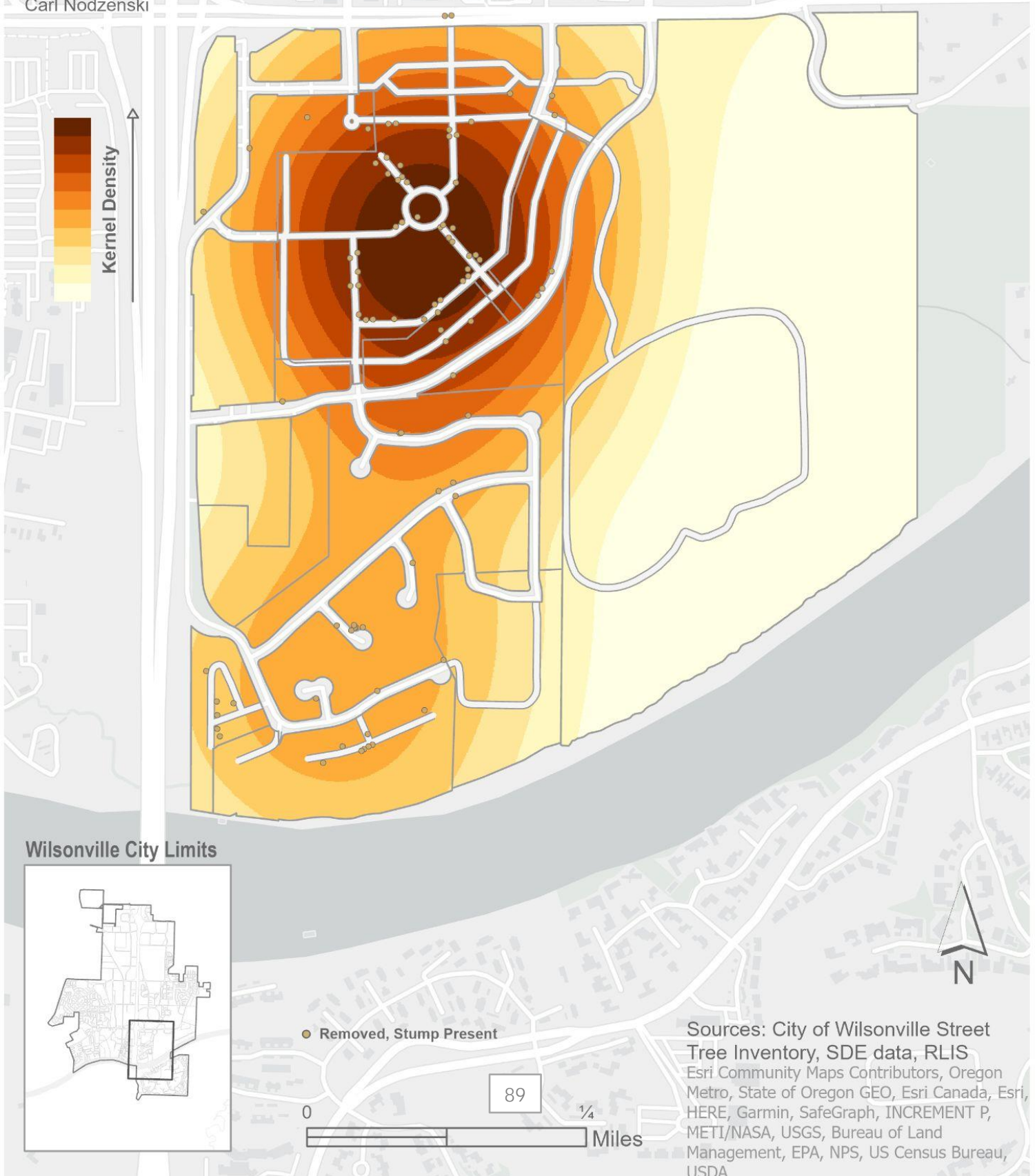
Street Tree Status: Removed, Stump Present

Village at Main St./Daydream Zone

Wilsonville, OR

Map prepared by:
Carl Nodzinski

59.



Sources: City of Wilsonville Street Tree Inventory, SDE data, RLIS Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

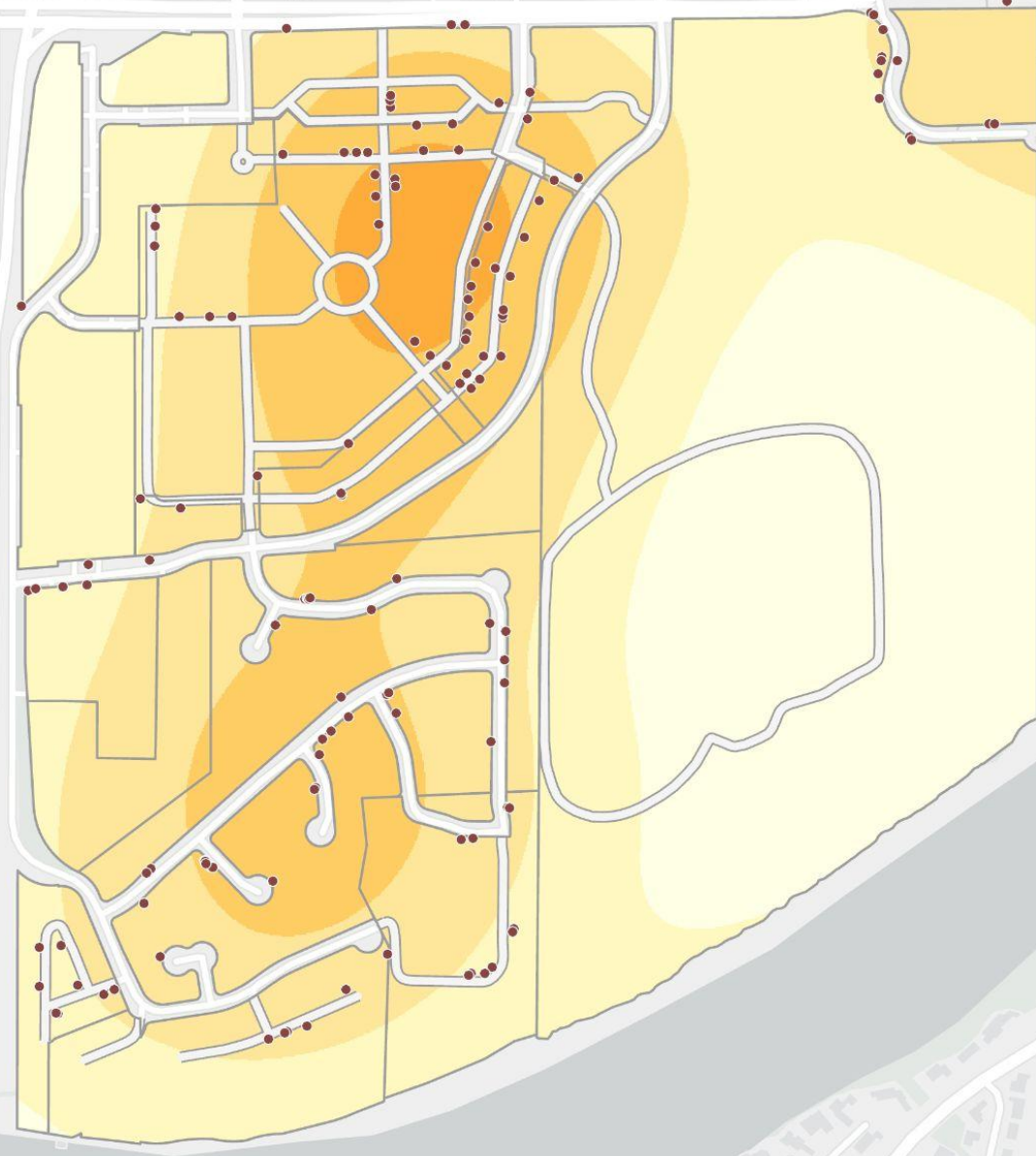
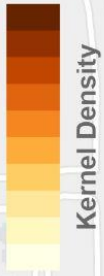
Street Tree Status: Removed No Stump

60.

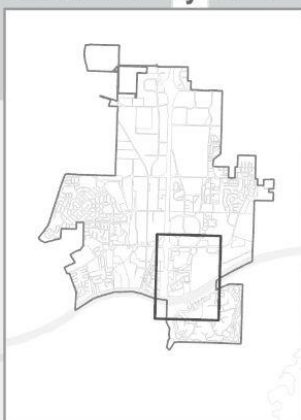
Village at Main St./Daydream Zone

Wilsonville, OR

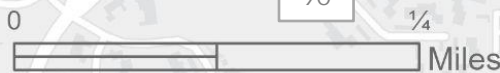
Map prepared by:
Carl Nodzinski



Wilsonville City Limits



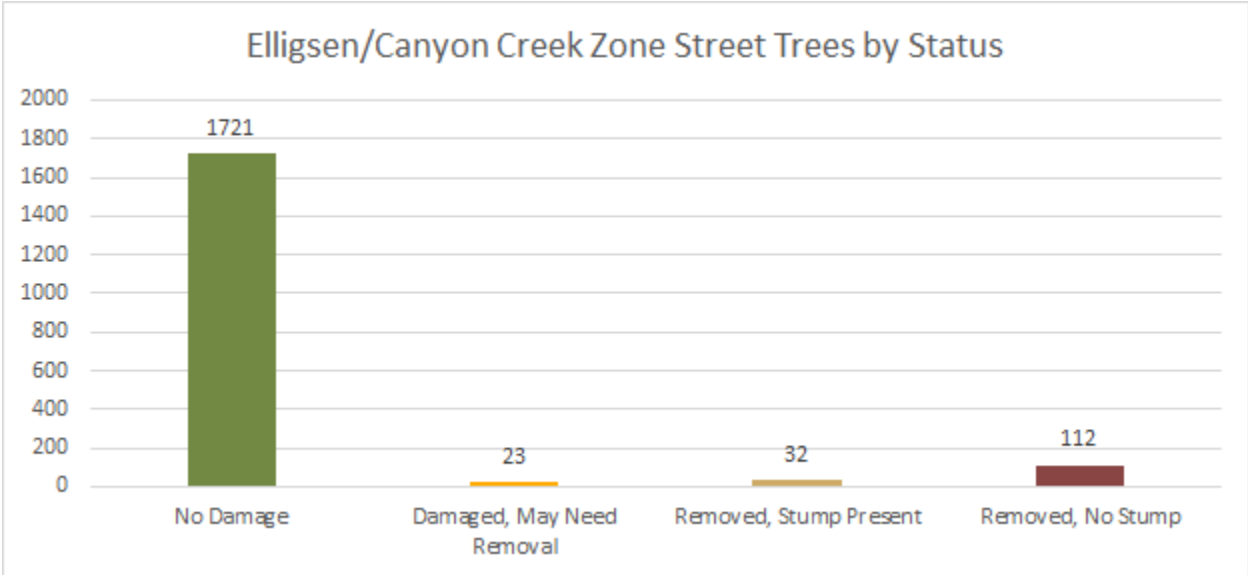
• Removed No Stump



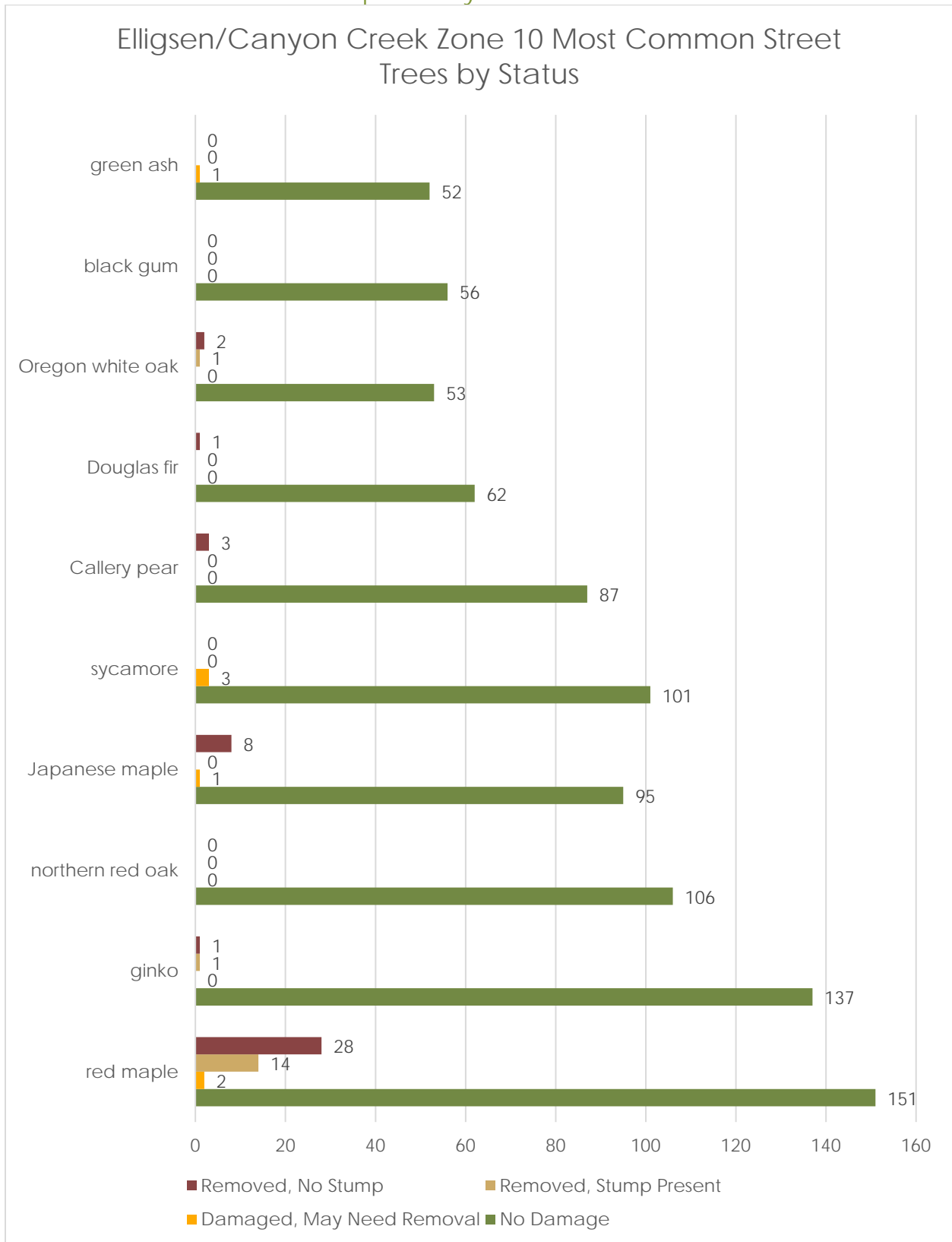
Sources: City of Wilsonville Street Tree Inventory, SDE data, RLIS Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

Elligsen/Canyon Creek Zone

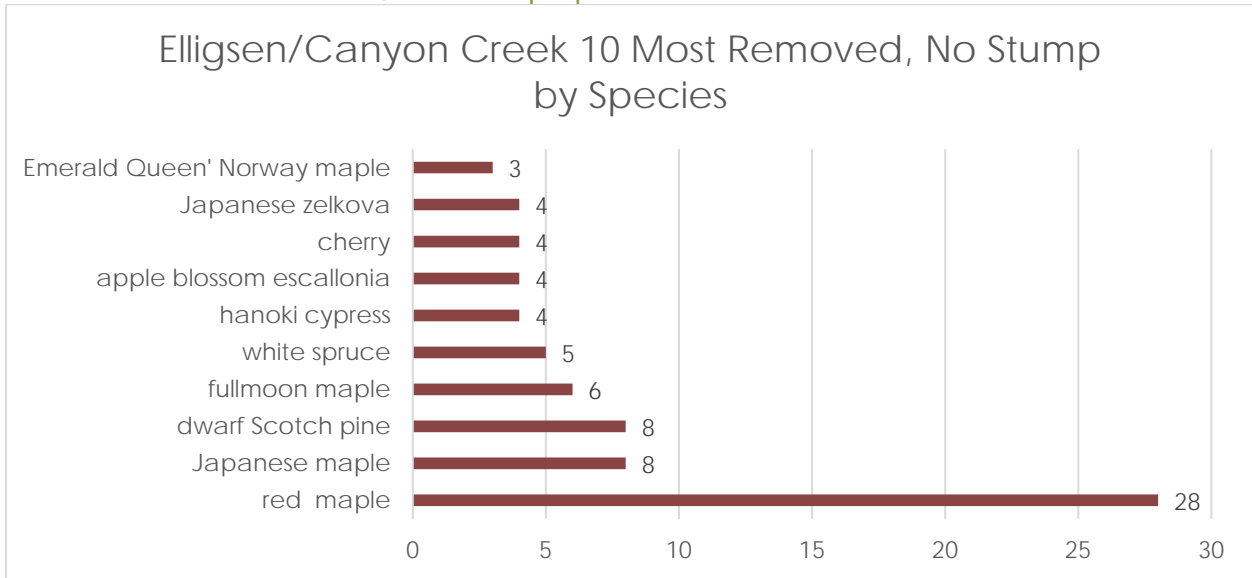
61. Status Totals



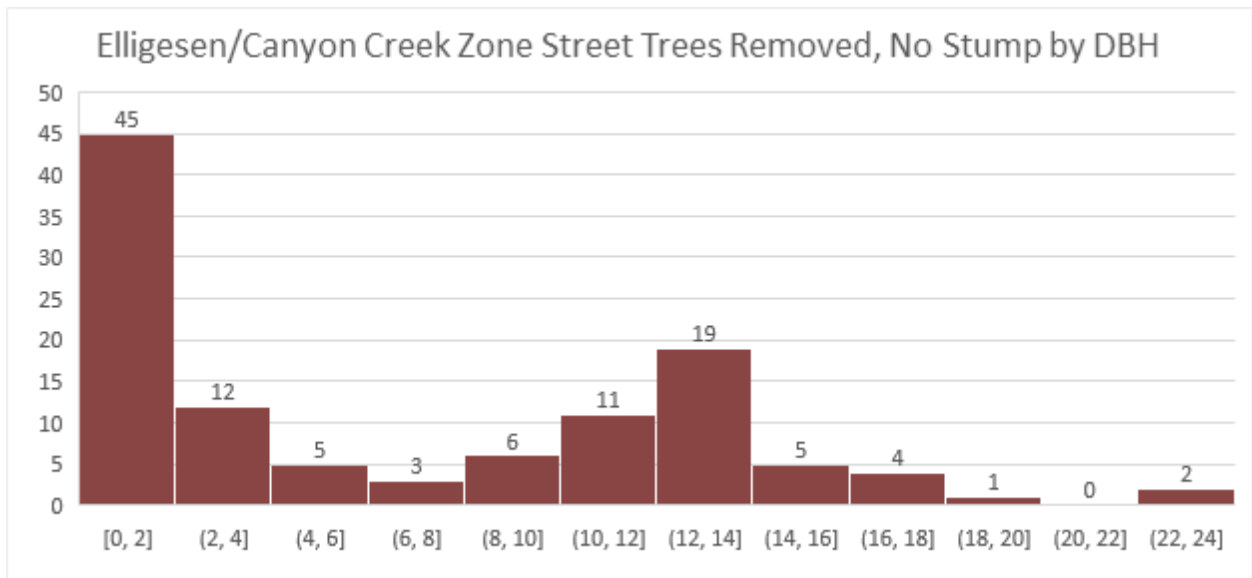
62.10 Most Common Tree Species by Status



63.10 Most Removed, No Stump Species



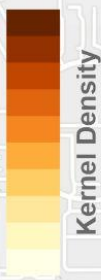
64. Removed, No Stump by DBH



Street Tree Status: Damaged

Elligsen/Canyon Creek Zone Wilsonville, OR

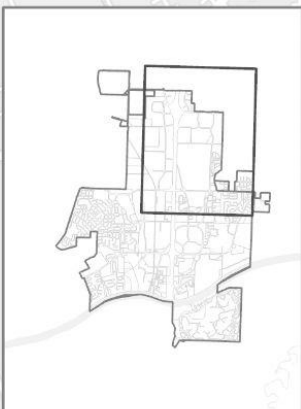
Map prepared by:
Carl Nodzenski



Kernel Density

● Damaged
● May Need Removal

Wilsonville City Limits



Sources: City of Wilsonville Street Tree Inventory 2021, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

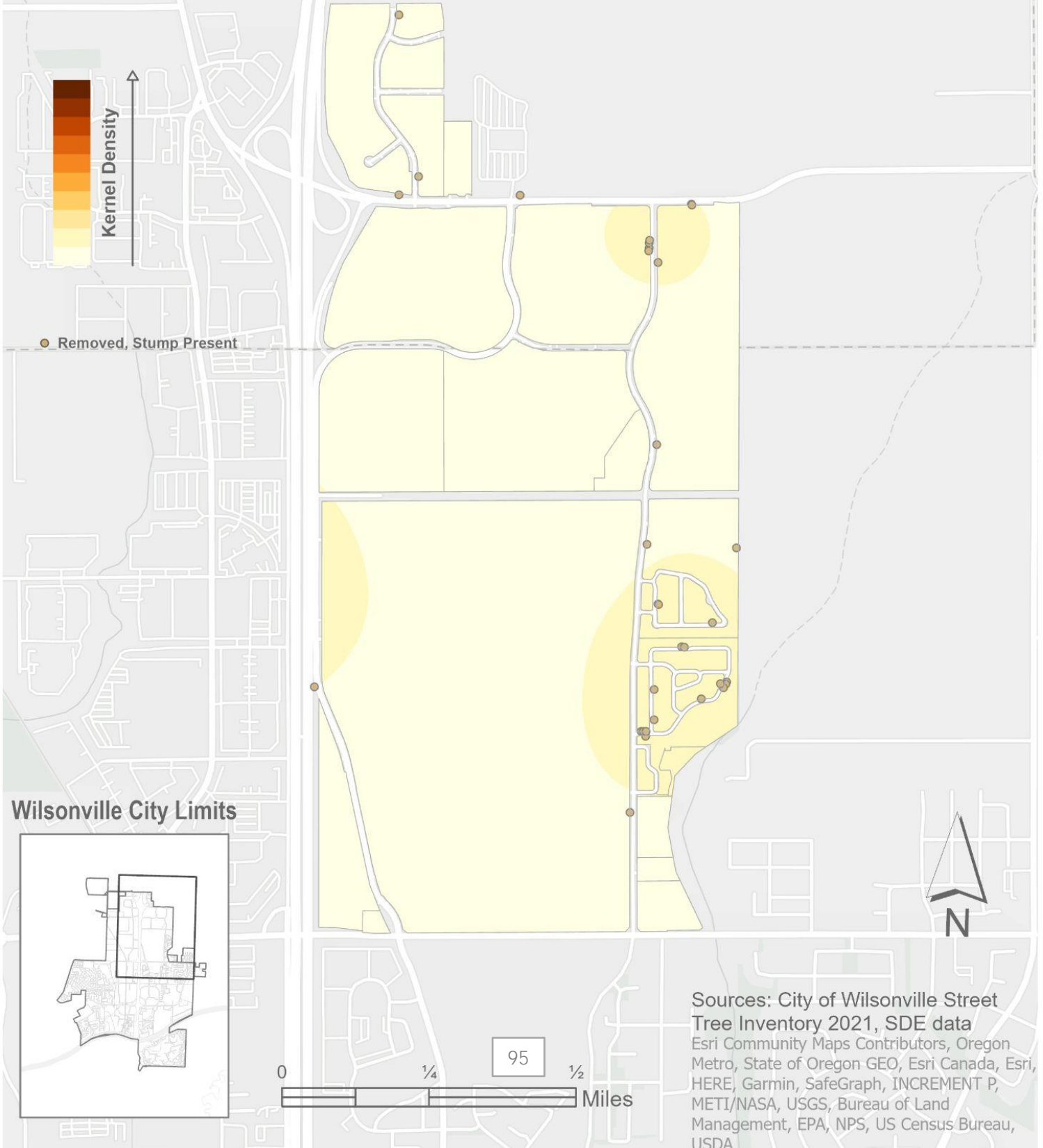
Street Tree Status: Removed, Stump Present

Elligsen/Canyon Creek Zone

Wilsonville, OR

66.

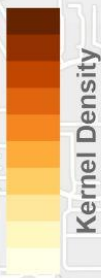
Map prepared by:
Carl Nodzenski



Street Tree Status: Removed, No Stump

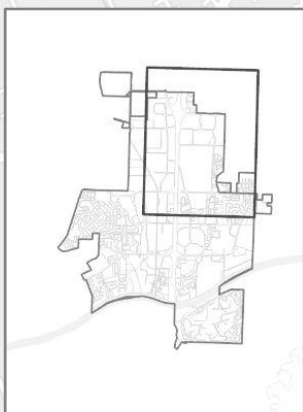
Elligsen/Canyon Creek Zone Wilsonville, OR

Map prepared by:
Carl Nodzenski



• Removed No Stump

Wilsonville City Limits

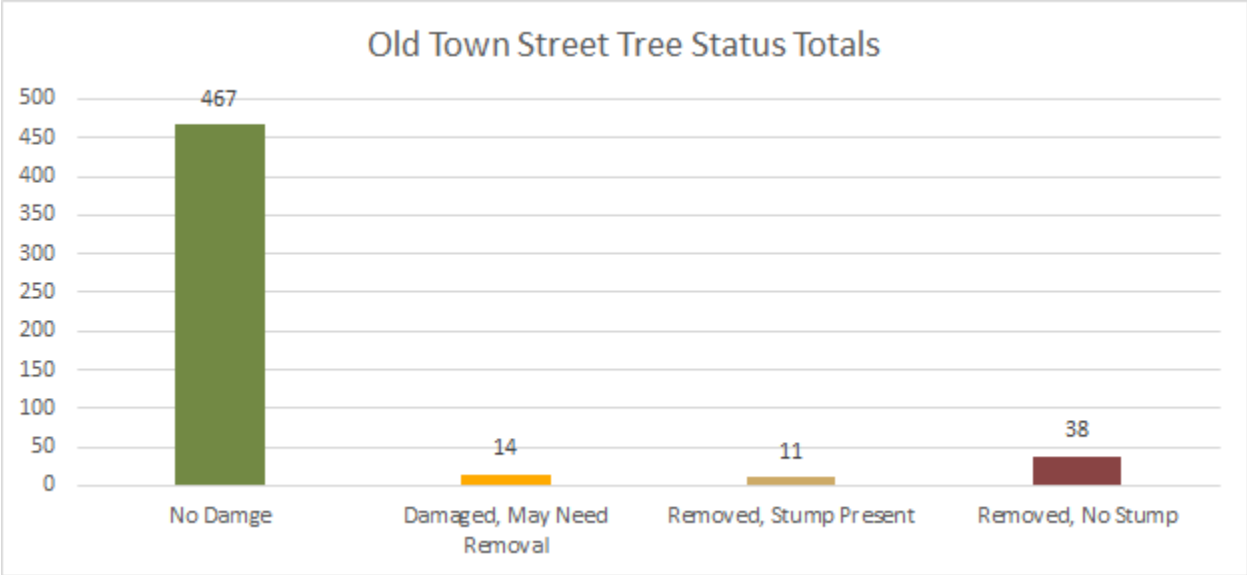


Sources: City of Wilsonville Street Tree Inventory 2021, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA



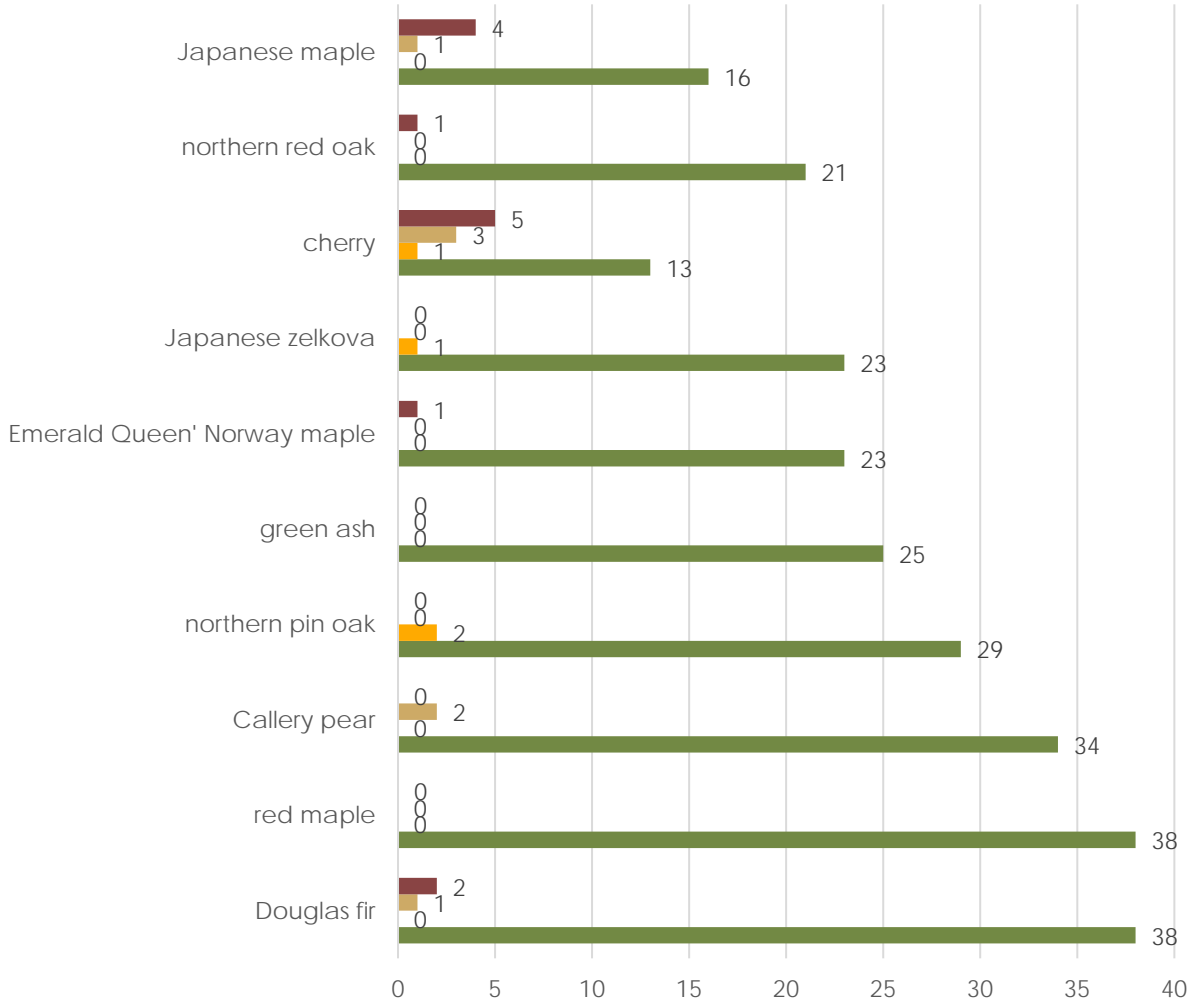
Old Town Zone

68. Status Totals



69.10 Most Common Species by Status

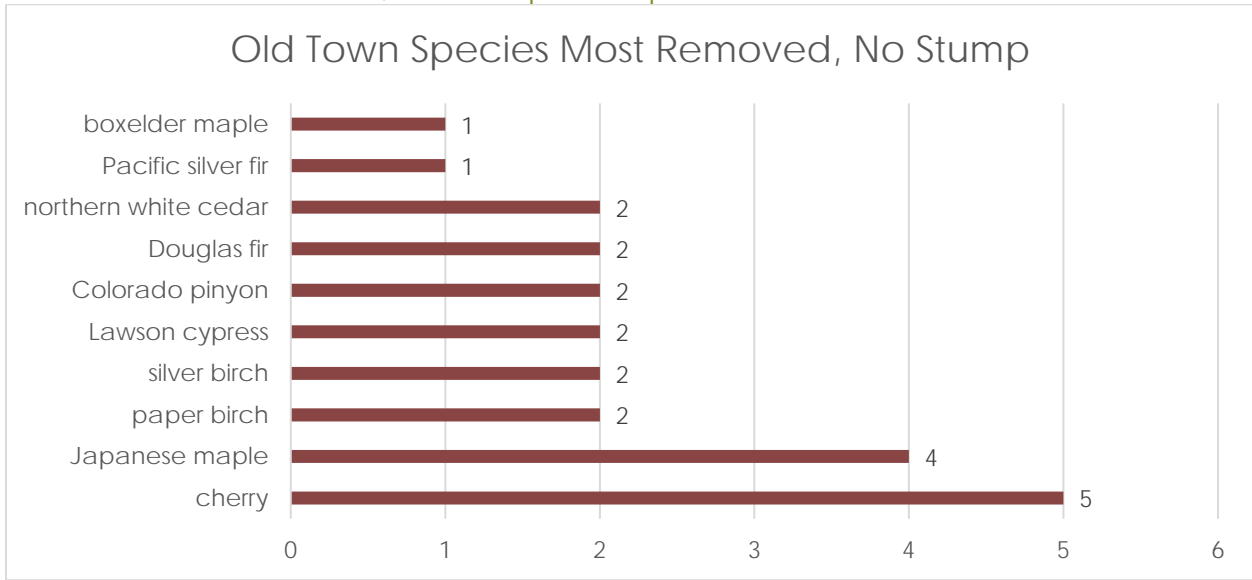
Old Town Top 10 Most Common Street Trees by Status



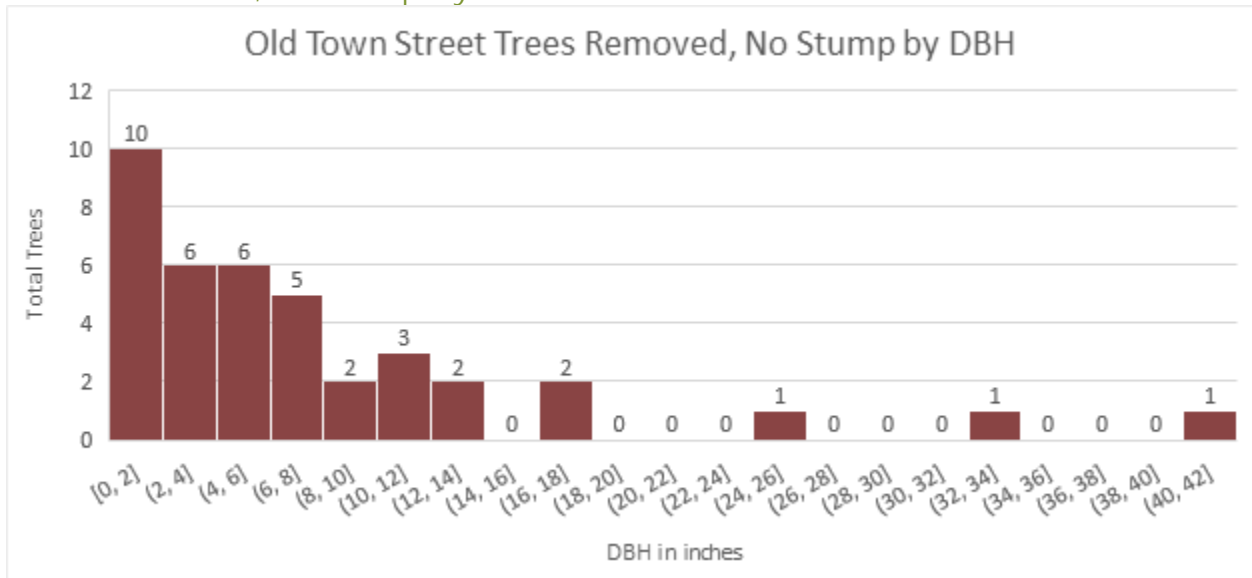
	Douglas fir	red maple	Callery pear	northern pin oak	green ash	Emerald Queen' Norway maple	Japanese zelkova	cherry	northern red oak	Japanese maple
■ SUM_Removed_No_Stump	2	0	0	0	0	1	0	5	1	4
■ SUM_Removed_Stump_Present	1	0	2	0	0	0	0	3	0	1
■ SUM_Damaged_May_Need_Re moval	0	0	0	2	0	0	1	1	0	0
■ SUM_No_Damage	38	38	34	29	25	23	23	13	21	16

■ SUM_Removed_No_Stump ■ SUM_Removed_Stump_Present
■ SUM_Damaged_May_Need_Re moval ■ SUM_No_Damage

70.10 Most Removed, No Stump Tree Species



71. Removed, No Stump by DBH

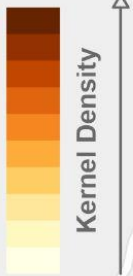


Street Tree Status: Damaged

72.

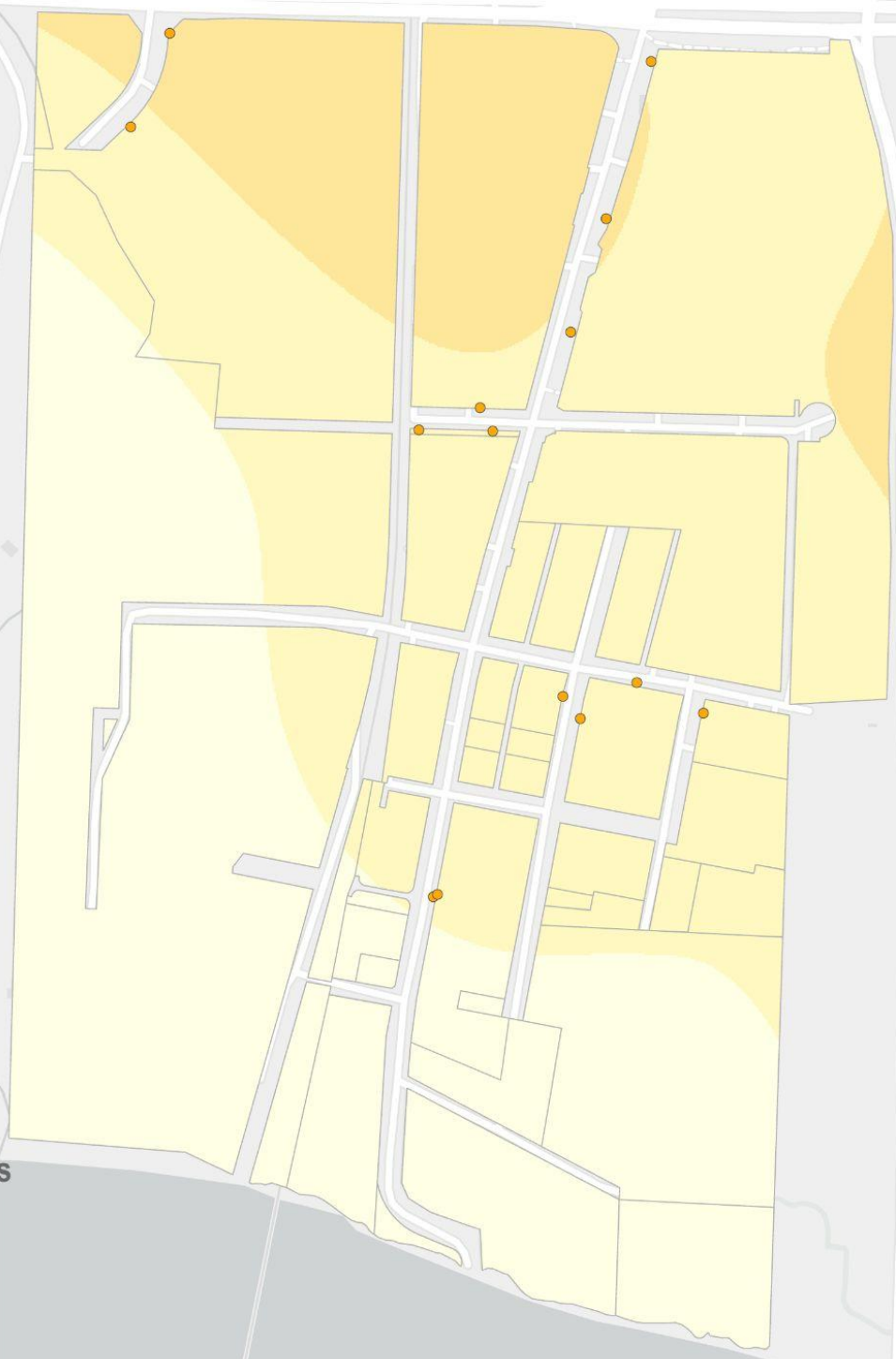
Old Town Zone
Wilsonville, OR

Map prepared by:
Carl Nodzenski



● Damaged
● May Need Removal

Wilsonville City Limits



Sources: City of Wilsonville Street Tree Inventory, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

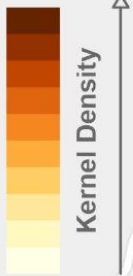
Street Tree Status: Removed, Stump Present

Old Town Zone

Wilsonville, OR

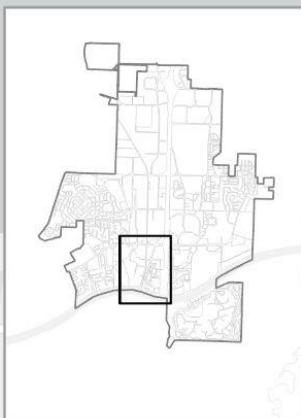
73.

Map prepared by:
Carl Nodzinski



● Removed, Stump Present

Wilsonville City Limits



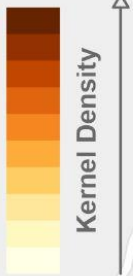
Sources: City of Wilsonville Street Tree Inventory, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

Street Tree Status: Removed, No Stump

74.

Old Town Zone
Wilsonville, OR

Map prepared by:
Carl Nodzinski



• Removed No Stump

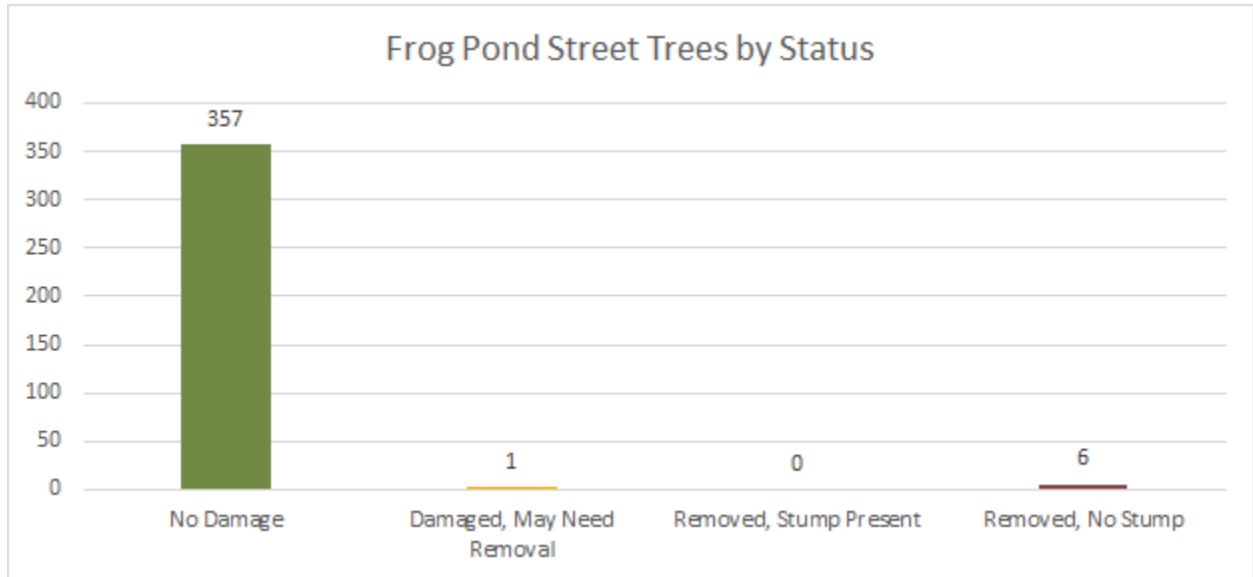
Wilsonville City Limits



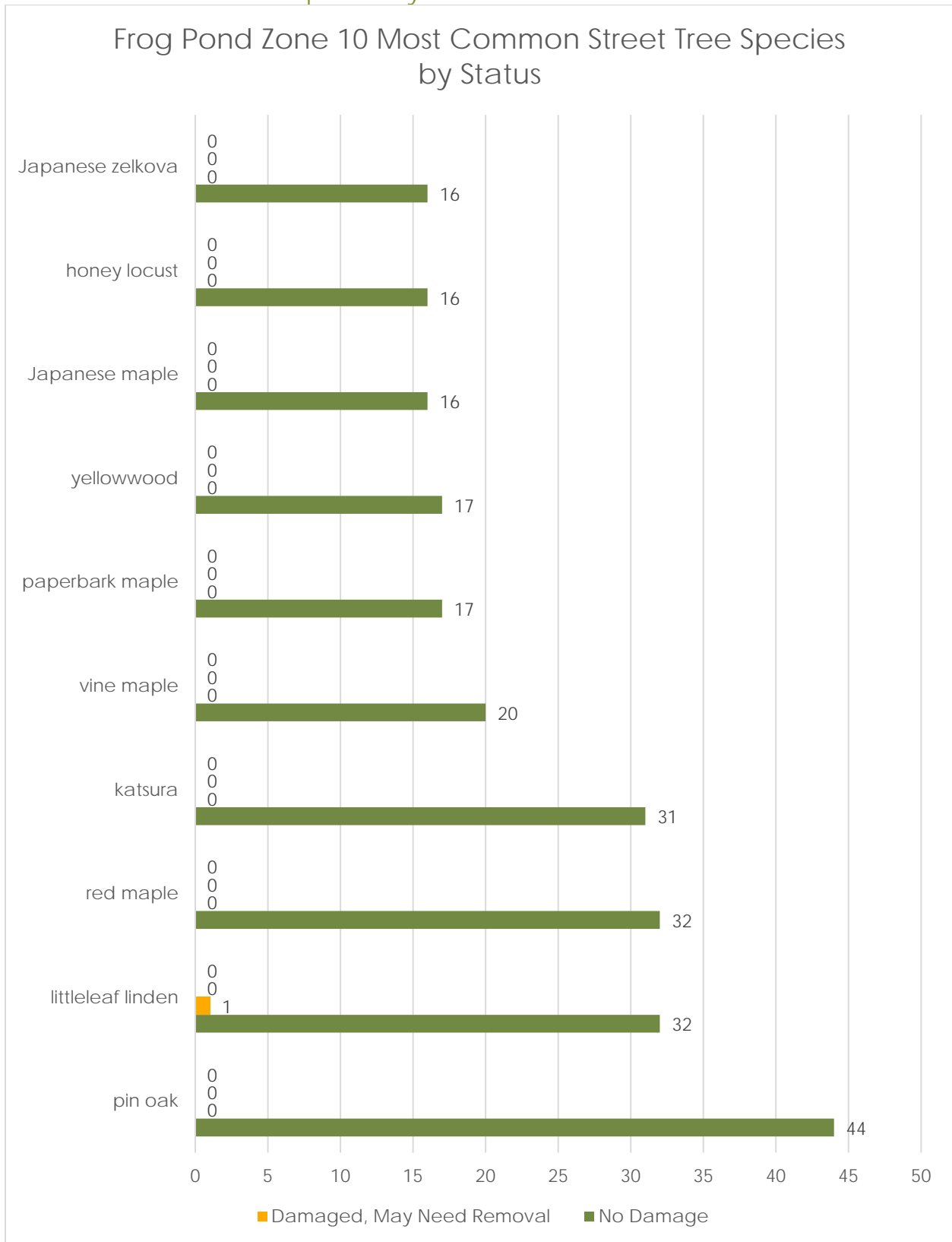
Sources: City of Wilsonville Street Tree Inventory, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

Frog Pond Zone

75. Status Totals



76.10 Most Common Species by Status

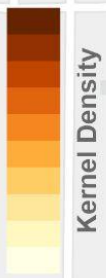


Street Tree Status: Removed, No Stump

Frog Pond Zone

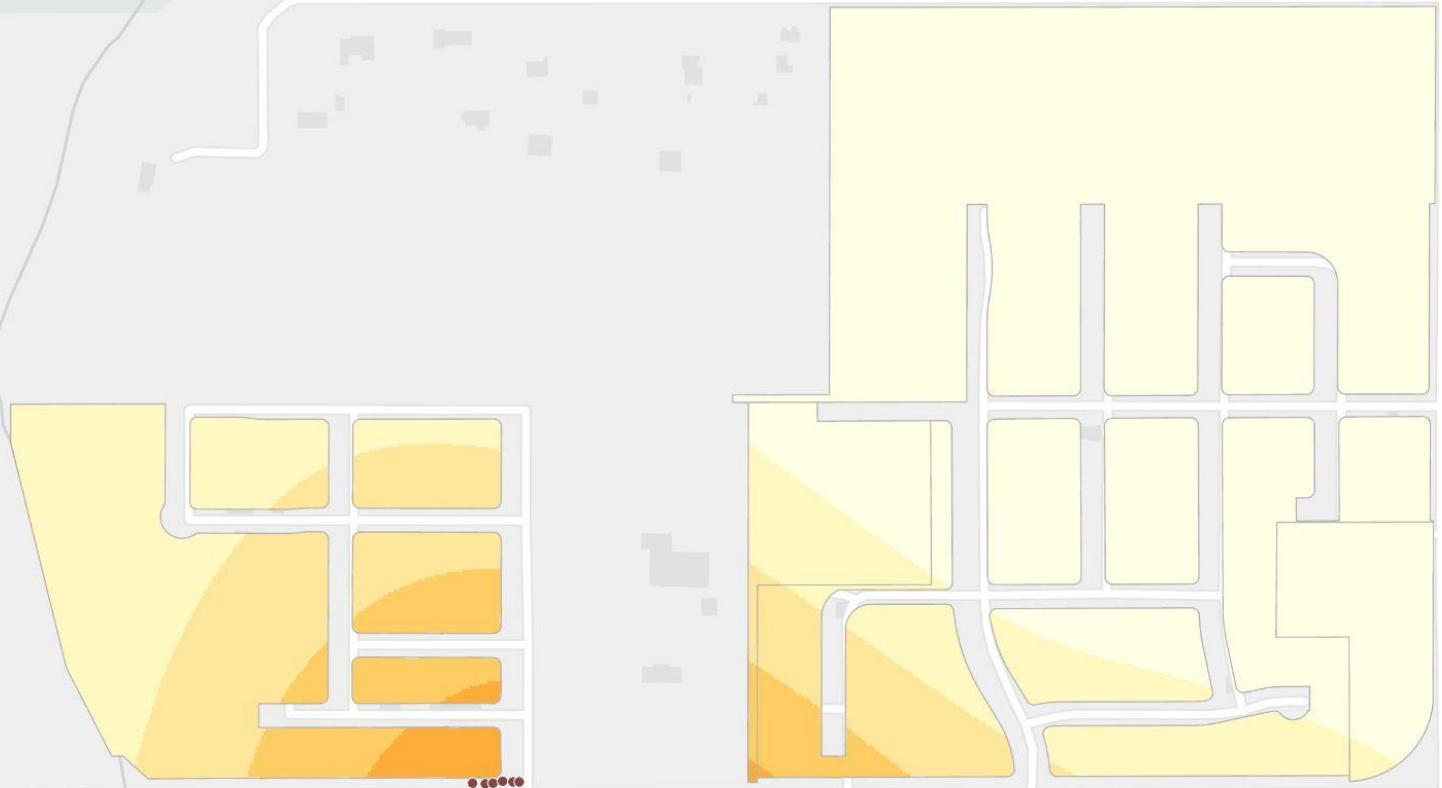
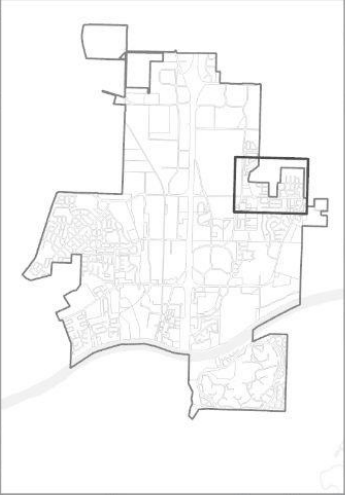
Wilsonville, OR

Map prepared by:
Carl Nodzinski



• Removed No Stump

Wilsonville City Limits



Sources: City of Wilsonville Street Tree Inventory, SDE data

Esri Community Maps Contributors, Oregon Metro, State of Oregon
GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P,
METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US
Census Bureau, USDA

All Trees in Neighborhood Zones

Street Tree DBH & Status 2021

Villebois Neighborhood

Wilsonville, OR

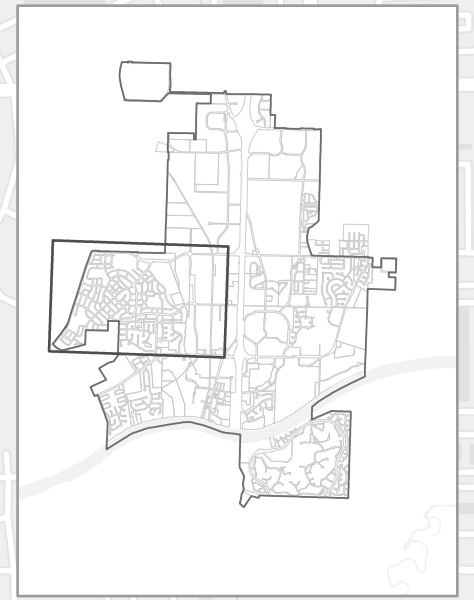
Wilsonville City Limits

DBH

- 1
- 5
- 10
- 50
- 100

Tree Status

- No Damage
- Damaged, May Need Removal
- Damaged, Needs Removal
- Removed, Stump Present
- Removed, No Stump



Map prepared by:
Carl Nodzinski



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Sources: City of Wilsonville Street Tree Inventory 2021, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada,
Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land
Management, EPA, NPS, US Census Bureau, USDA



Street Tree DBH & Status 2021

Charbonneau District

Wilsonville, OR

Map prepared by:
Carl Nodzinski

E.79

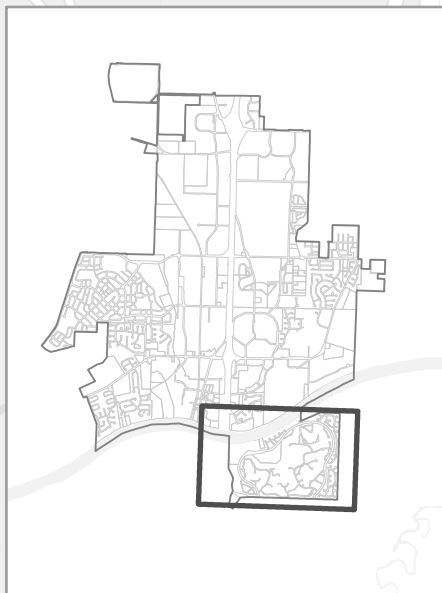
DBH

- 1
- 5
- 10
- 50
- 100

Tree Status

- No Damage
- Damaged, May Need Removal
- Removed, Stump Present
- Removed, No Stump

Wilsonville City Limits



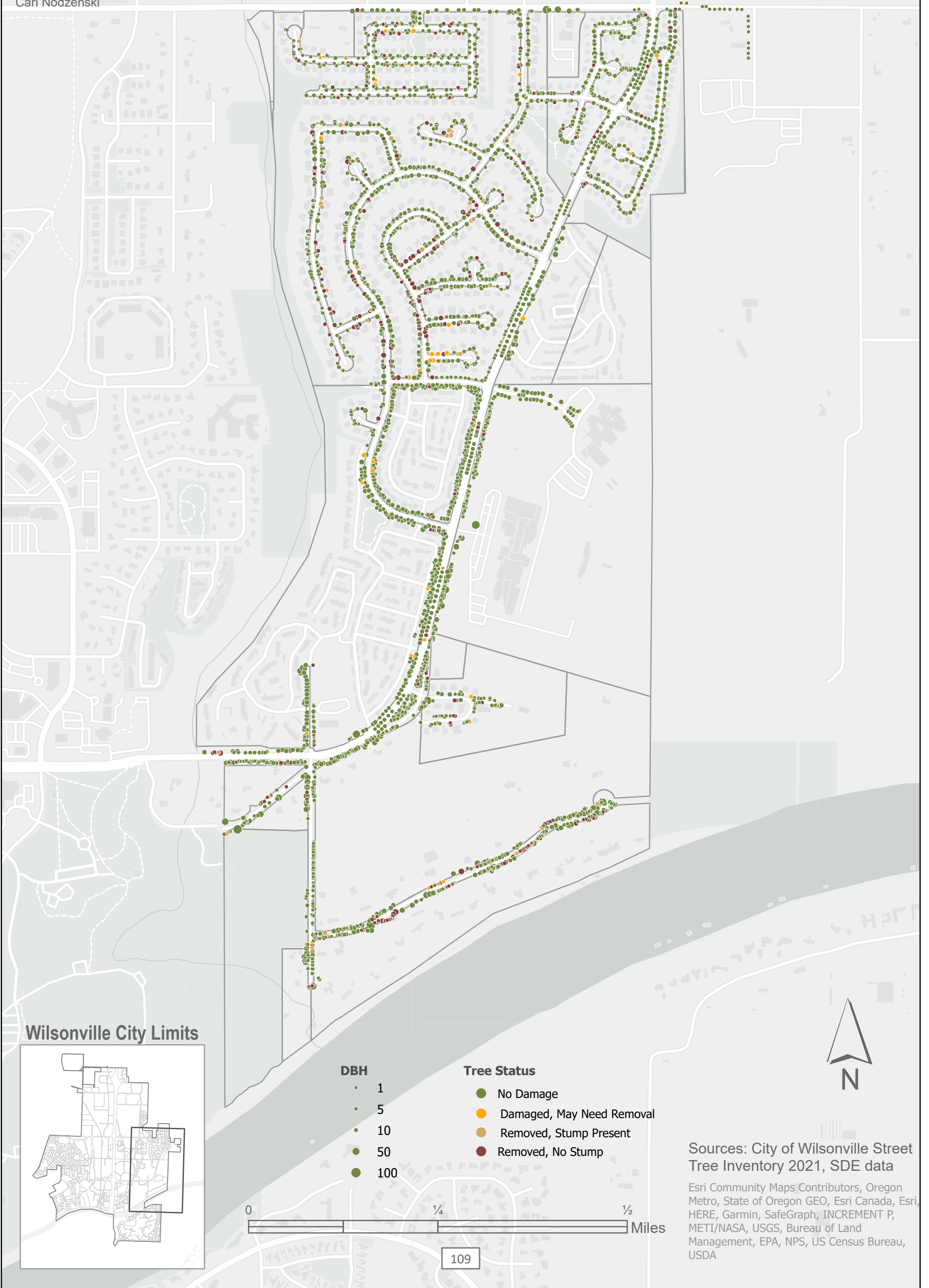
Sources: City of Wilsonville Street Tree Inventory 2021, SDE data
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada,
Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land
Management, EPA, NPS, US Census Bureau, USDA

Street Tree DBH & Status 2021

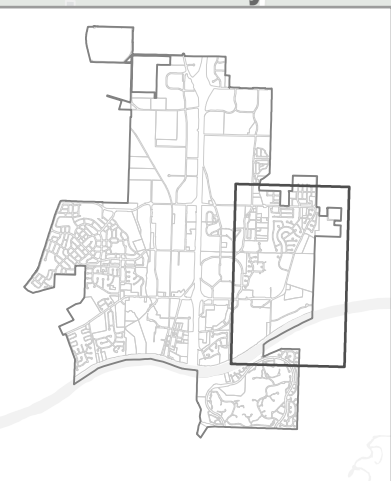
Meadows Zone

Wilsonville, OR

Map prepared by:
Carl Nodzinski



Wilsonville City Limits



DBH

- 1
- 5
- 10
- 50
- 100

Tree Status

- No Damage
- Damaged, May Need Removal
- Removed, Stump Present
- Removed, No Stump



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Sources: City of Wilsonville Street Tree Inventory 2021, SDE data

Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

Street Tree DBH & Status 2021

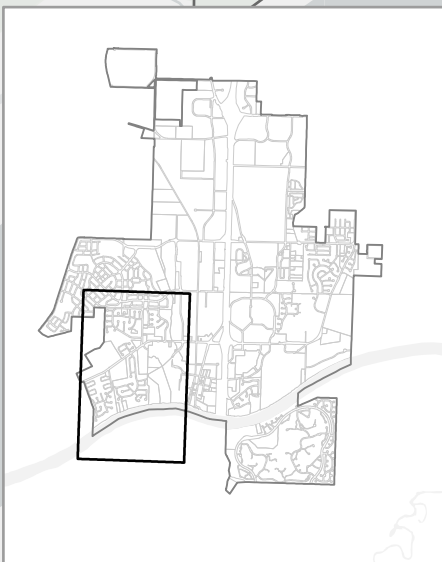
Morey's Landing/Rivergreen Zone

Wilsonville, OR

Map prepared by:
Carl Nodzinski



Wilsonville City Limits

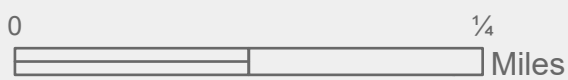


DBH

- 1
- 5
- 10
- 50
- 100

Tree Status

- No Damage
- Damaged, May Need Removal
- Damaged, Needs Removal
- Removed, Stump Present
- Removed, No Stump



Sources: City of Wilsonville Street Tree Inventory 2021, SDE data

Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

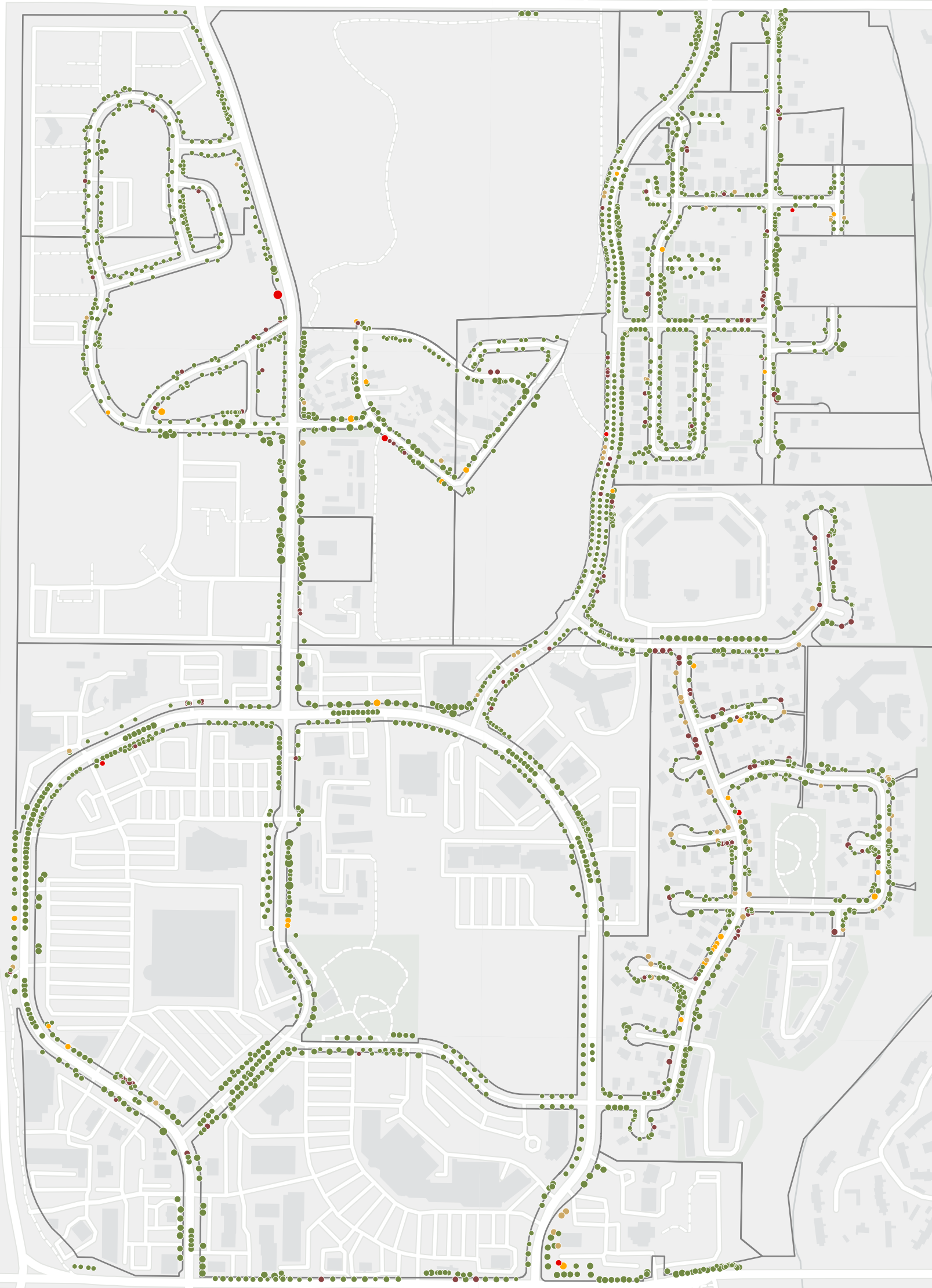
Street Tree DBH & Status 2021

Town Center Zone

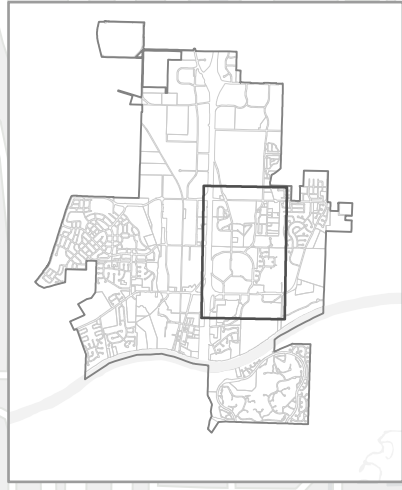
Wilsonville, OR

Map prepared by:
Carl Nodzinski

E.82



Wilsonville City Limits



- DBH**
- 1
 - 5
 - 10
 - 50
 - 100

- Tree Status**
- No Damage
 - Damaged, May Need Removal
 - Damaged, Needs Removal
 - Removed, Stump Present
 - Removed, No Stump



111



Sources: City of Wilsonville Street Tree Inventory 2021, SDE data

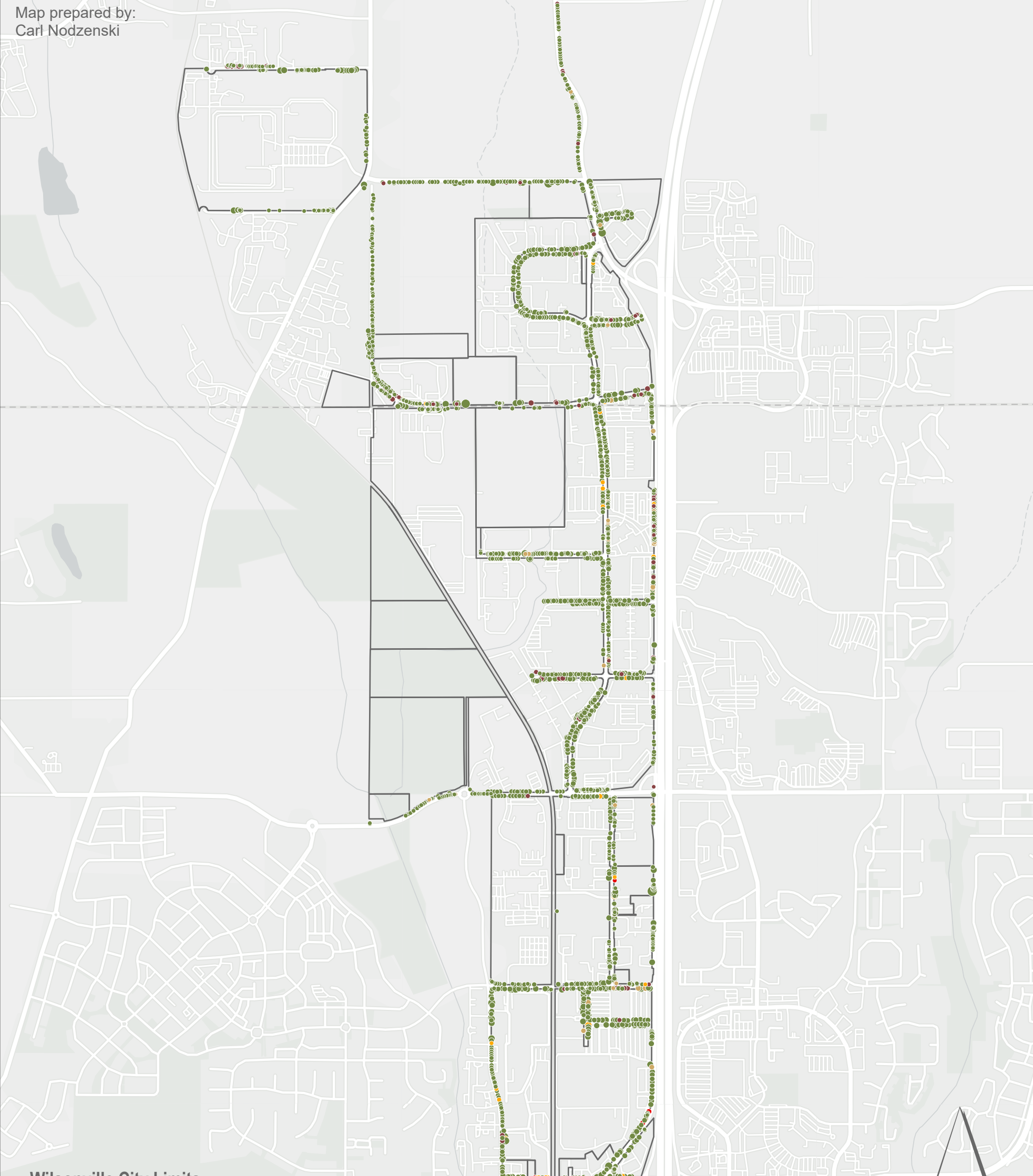
Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

Street Tree DBH & Status 2021

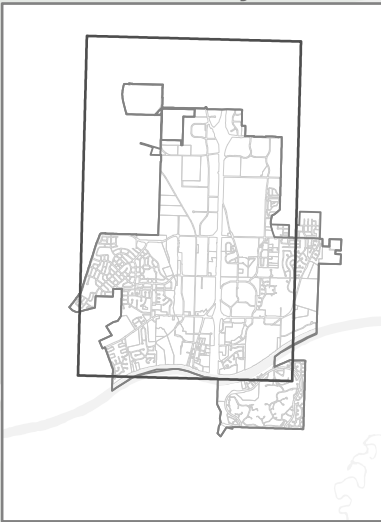
Industrial Zone

Wilsonville, OR

Map prepared by:
Carl Nodzinski



Wilsonville City Limits



DBH

- 1
- 5
- 10
- 50
- 100

Tree Status

- No Damage
- Damaged, May Need Removal
- Damaged, Needs Removal
- Removed, Stump Present
- Removed, No Stump



Sources: City of Wilsonville Street Tree Inventory 2021, SDE data

Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

Street Tree DBH & Status 2021

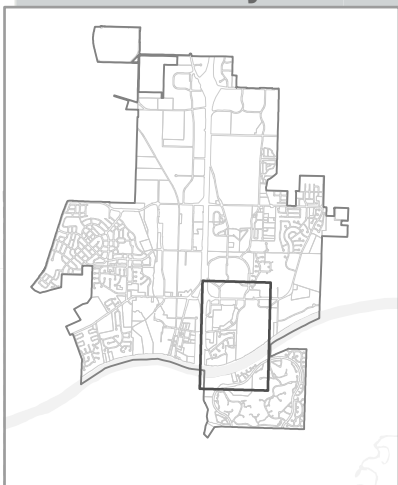
Village at Main St./Daydream Zone

Wilsonville, OR

Map prepared by:
Carl Nodzinski



Wilsonville City Limits



- DBH**
- 1
 - 5
 - 10
 - 50
 - 100

- Tree Status**
- No Damage
 - Damaged, May Need Removal
 - Damaged, Needs Removal
 - Removed, Stump Present
 - Removed, No Stump



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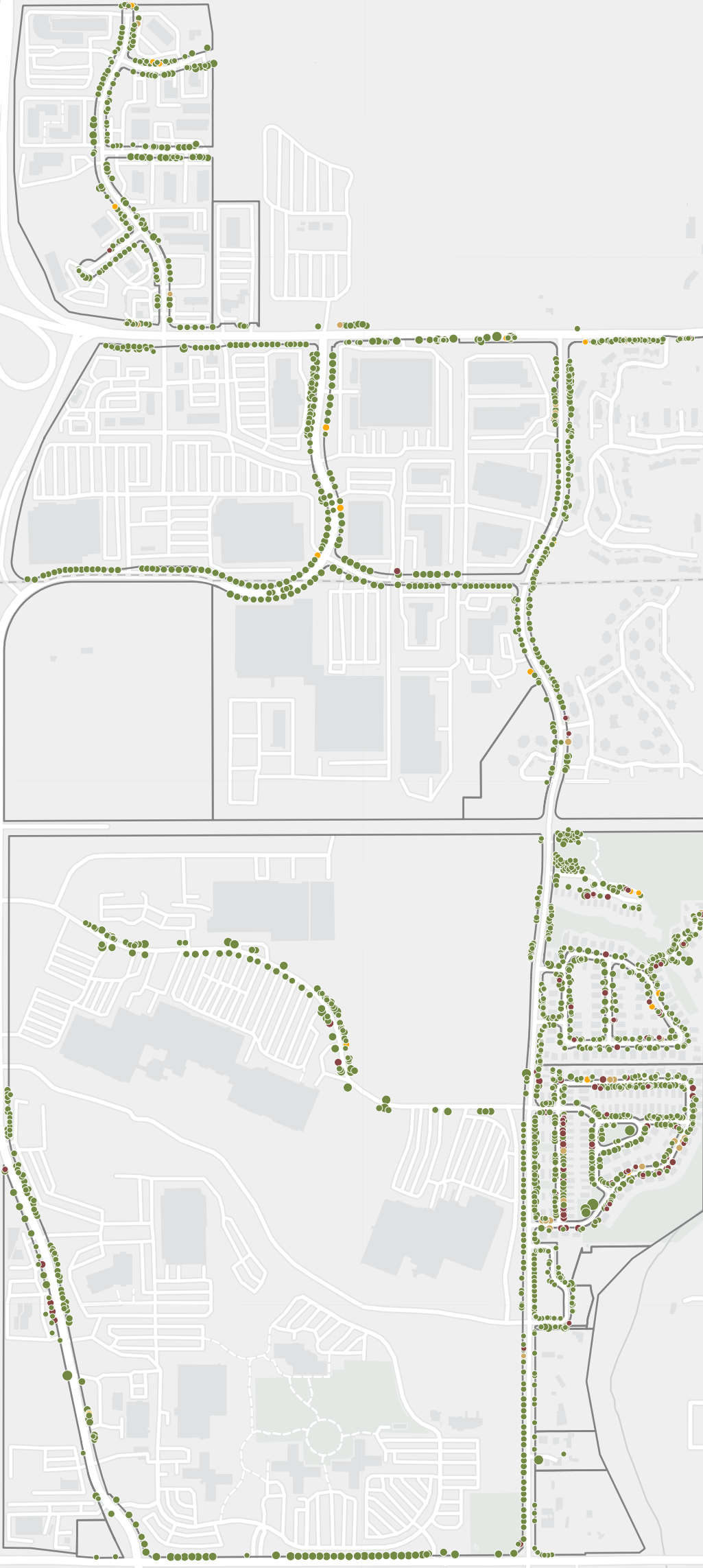
Sources: City of Wilsonville Street Tree Inventory 2021, SDE data

Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, BuildingFootprintUSA, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

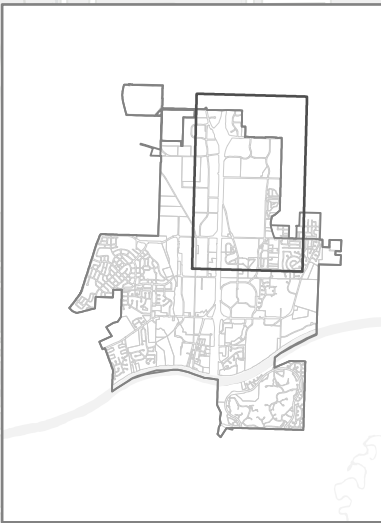
Street Tree DBH & Status 2021

Elligsen/Canyon Creek Zone

Wilsonville, OR



Wilsonville City Limits



DBH

- 1
- 5
- 10
- 50
- 100

Tree Status

- No Damage
- Damaged, May Need Removal
- Removed, Stump Present
- Removed, No Stump



Sources: City of Wilsonville Street Tree Inventory 2021, SDE

Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

Street Tree DBH & Status 2021

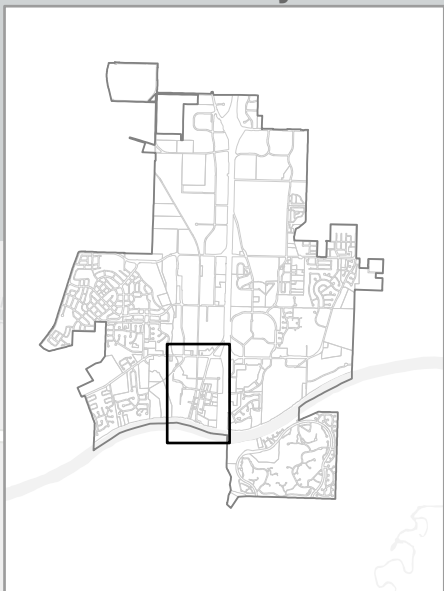
Old Town Zone

Wilsonville, OR

Map prepared by:
Carl Nodzinski



Wilsonville City Limits



DBH

- 1
- 5
- 10
- 50
- 100

Tree Status

- No Damage
- Damaged, May Need Removal
- Removed, Stump Present
- Removed, No Stump



115



Sources: City of Wilsonville Street Tree Inventory 2021, SDE data

Esri Community Maps Contributors, Oregon Metro, State of Oregon GEO, BuildingFootprintUSA, Esri Canada, Esri, HERE, Garmin, SafeGraph, INCREMENT P, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA

Street Tree DBH & Status 2021

Frog Pond Zone

Wilsonville, OR

Map prepared by:
Carl Nodzenski

DBH

- 1
- 5
- 10
- 50
- 100

Tree Status

- No Damage
- Damaged, May Need Removal
- Removed, Stump Present
- Removed, No Stump

Wilsonville City Limits

