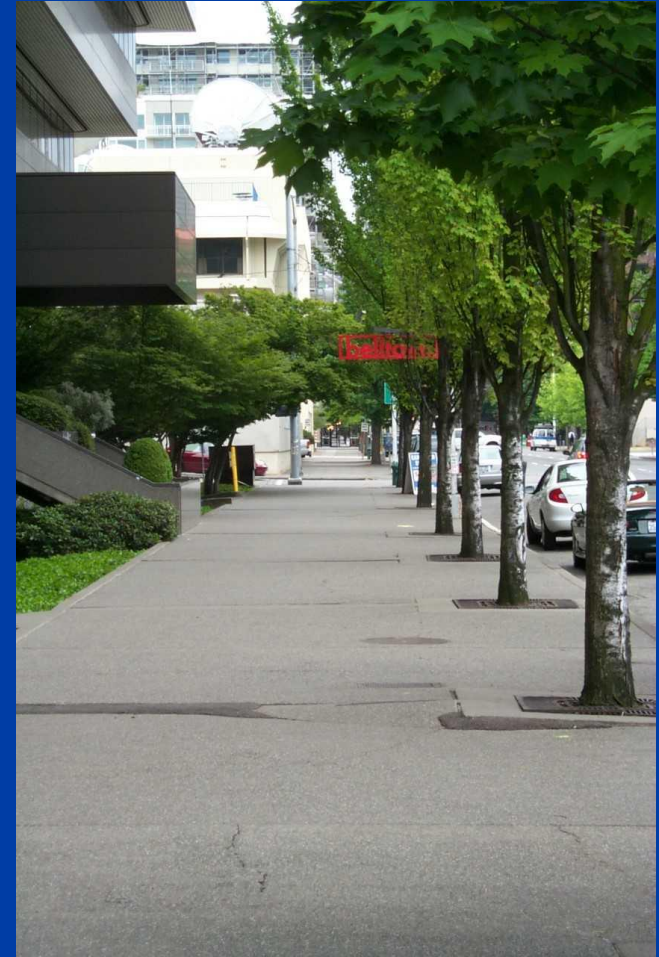


Street Tree Inventory – Seattle



Our vision, mission, and core values

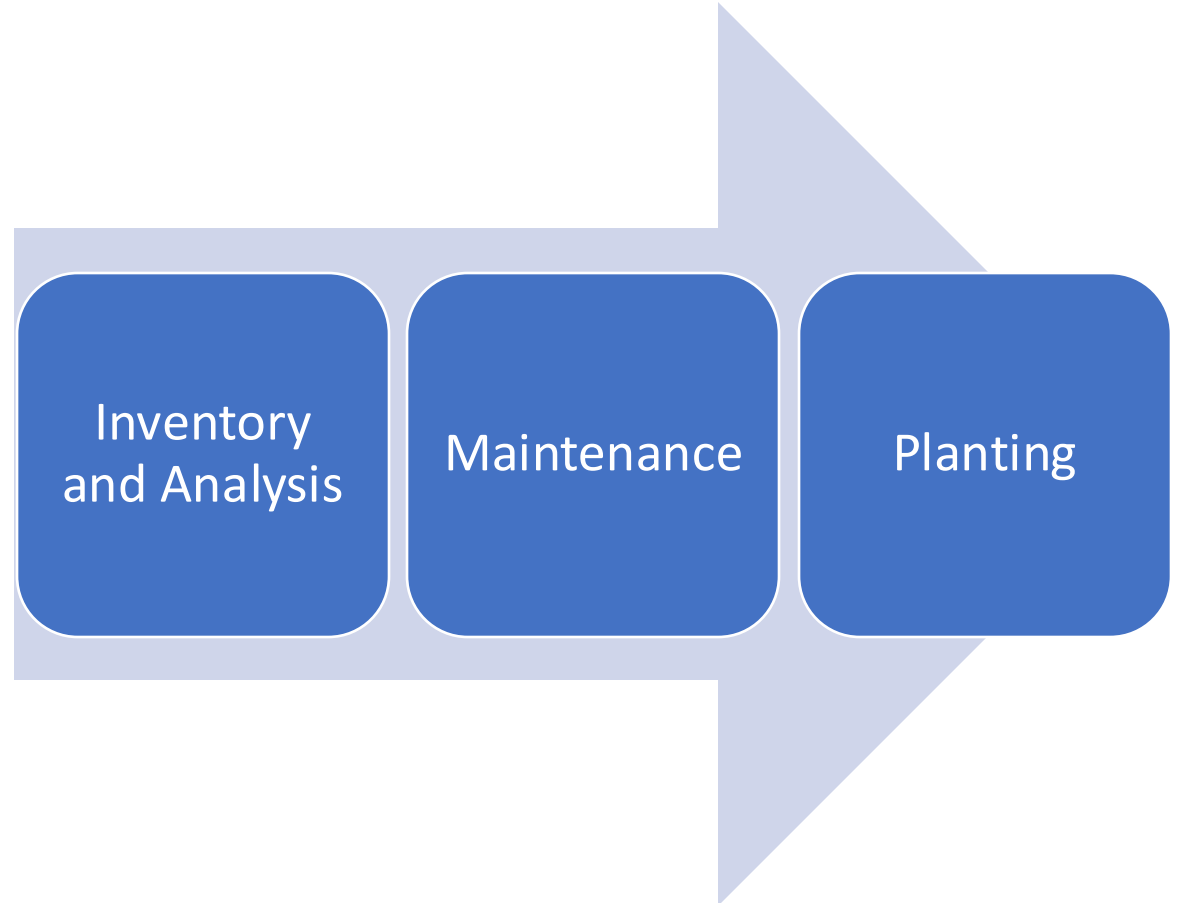
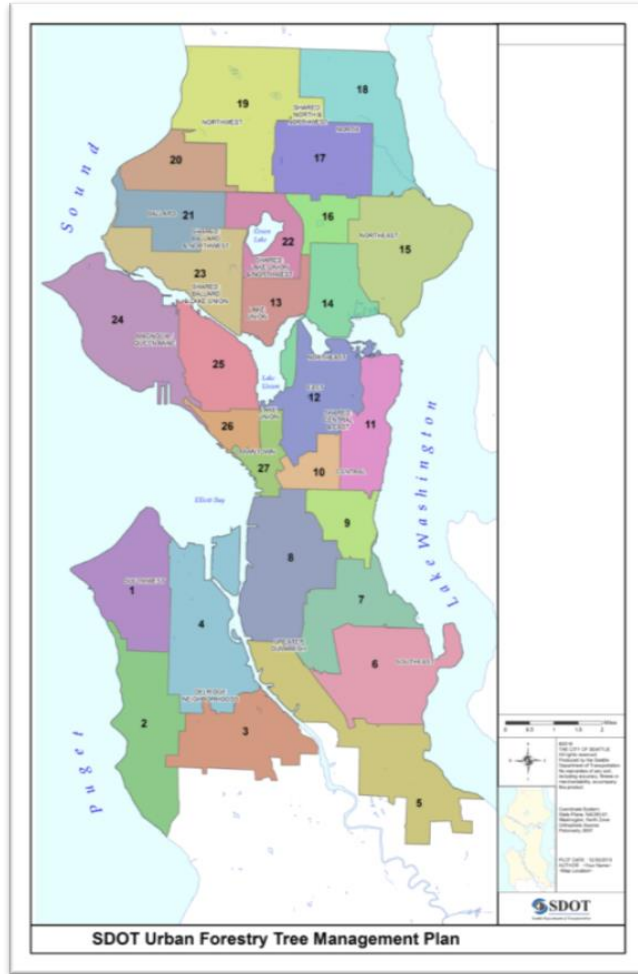
Vision: Seattle is a thriving equitable community powered by dependable transportation

Mission: to deliver a transportation system that provides safe and affordable access to places and opportunities

Committed to **6 core values:**

- Equity
- Safety
- Mobility
- Sustainability
- Livability
- Excellence

SDOT Management Units at-a-glance



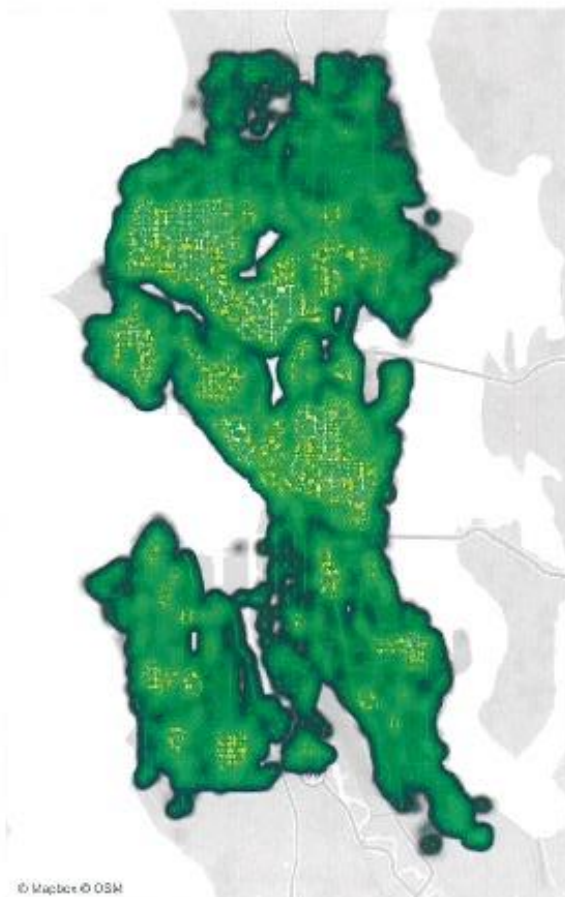


In 2016, SDOT launched our Street Tree Management Plan. This program gives us the opportunity to engage with Seattle's street trees with an innovative approach. To do this, we created 27 management units throughout Seattle and will focus efforts in a minimum of three units per year. We have assessed 21 of 27 management units since 2016. [Data Source](#)

Through effective inventorying, maintenance, replacement, and community involvement, we hope to ensure the health, preservation, and expansion of Seattle's urban forest. Trees improve our health and environment and make our neighborhoods friendlier places to live, work, and play.

The City of Seattle's goal, as outlined in the Urban Forest Stewardship Plan, is to increase Seattle's tree canopy cover to 30 percent by 2037. That's why, when SDOT must remove trees, we are committed to replanting 2 trees for every 1 removed. Tree replacement planting is funded by the 9-year Levy to...

Top 25 Trees by Genus



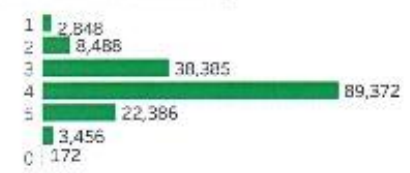
| Trees | Average Diameter | Species | CO2 Lbs/Yr |
|---------|------------------|---------|------------|
| 165,107 | 8 | 712 | 28M |

CO2 Sequestration

Seattle calculates the carbon dioxide sequestration and building energy savings provided by individual trees. Planting billions of trees across the world is one of the biggest and cheapest ways of taking CO2 out of the atmosphere.

Condition Rating

SDOT maintains a tree rating system to assess the life of the tree inventory.



Tree Diameter

Distribution of Seattle's trees (in inches).

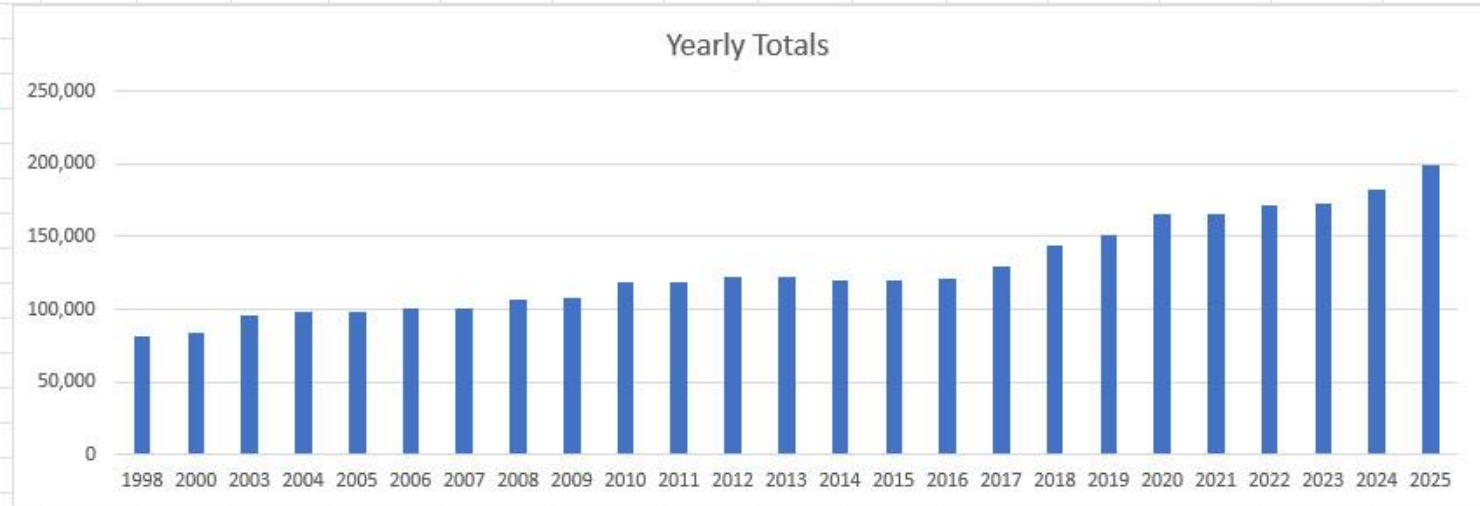


- Over the years.....

| 1998 | 2000 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 | 2023 | 2024 | 2025 |
|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 81,714 | 83,384 | 96,221 | 98,197 | 98,046 | 100,818 | 100,624 | 107,080 | 107,252 | 118,123 | 119,194 | 122,534 | 122,644 | 119,656 | 119,684 | 121,304 | 128,997 | 143,675 | 150,852 | 165,246 | 165,825 | 171,155 | 173,262 | 182,240 | 199,615 |

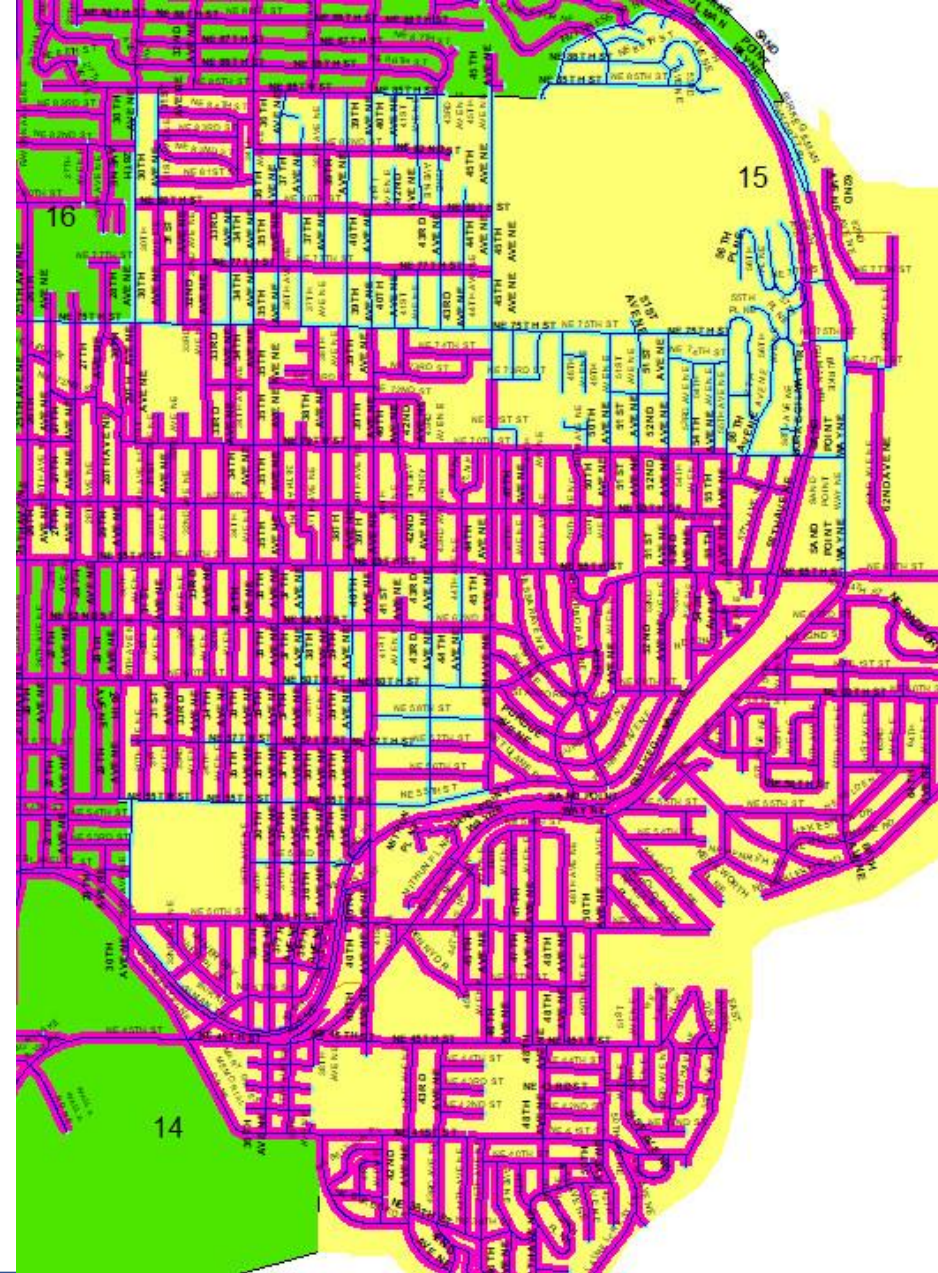
All totals are starting totals for the year (closest report to Jan 1 of year listed)

Trees added during MoveSeattle Levy 78,311



Management Unit Tracking

- A GIS tracking map is created, and streets are flagged as being complete once they have been surveyed



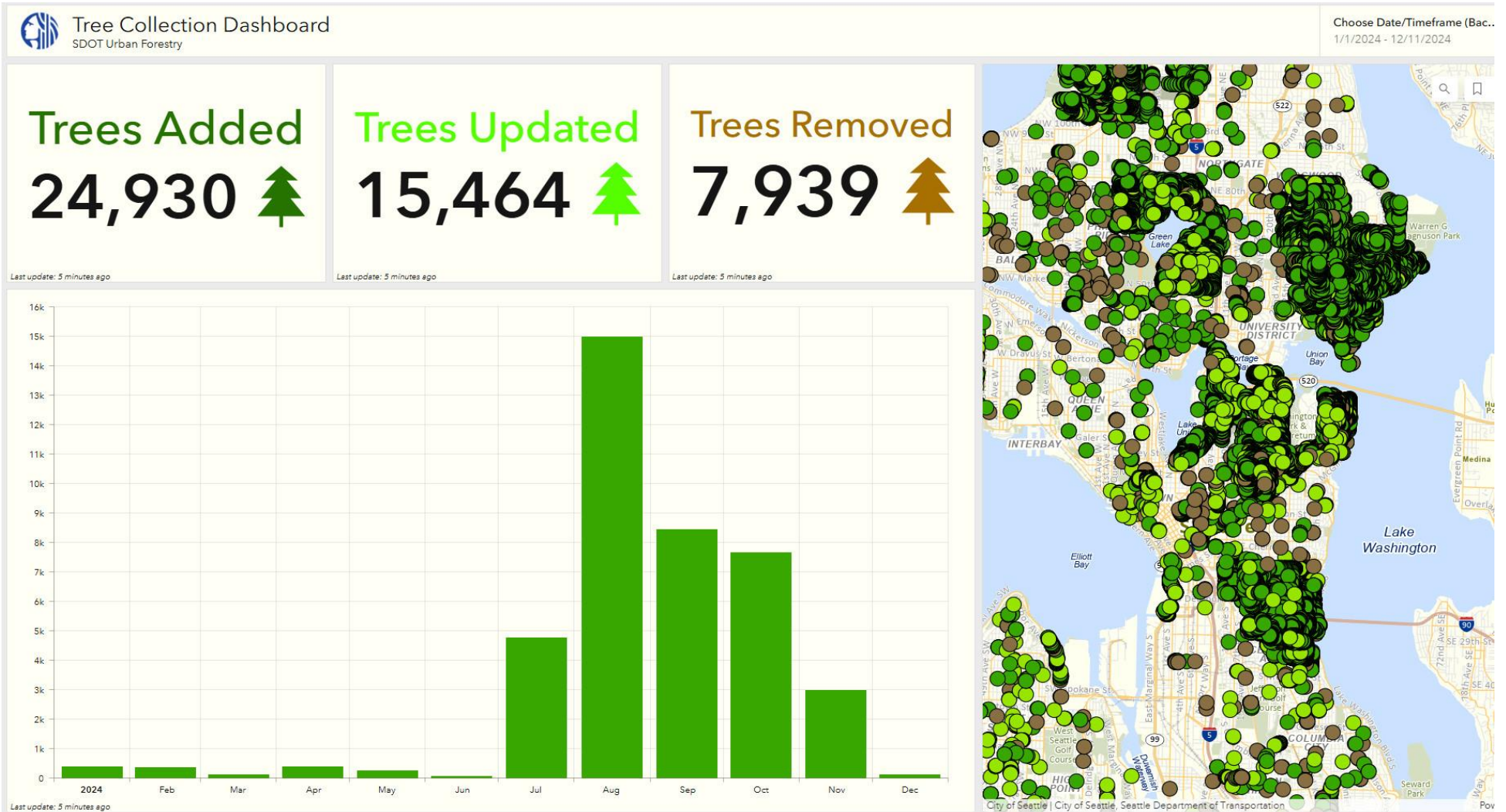
Daily Customer Service Usage

- ArcGIS is used by our arborists when we receive customer service requests, or permit applications.
- Display gives a quick indication of tree size and maintenance responsibility.

The screenshot shows the ArcGIS interface with a map of a residential area. The 'Layers' panel on the left shows the 'Active Trees (DBH class)' layer selected. A red arrow points to a tree feature on the map. The 'Identify' window is open, displaying a table of attributes for the selected tree.


| Field | Value |
|------------------|--|
| UNITID | TRE-20047 |
| UNITDESC | 1715 N 45TH ST |
| OWNERSHIP | SDOT |
| CURRENT_STATUS | INVC |
| LAST_VERIFY_DATE | 7/20/2017 |
| PLANTED_DATE | 6/12/1992 |
| BOTANICAL_NAME | FRAN_FL |
| COMMON_NAME | Flame Narrowleaf Ash |
| SCIENTIFIC_NAME | Fraxinus angustifolia 'Flame' |
| HERITAGE | N |
| EXCEPTIONAL | N |
| CODEREQ | N |
| GSI | N |
| GREEN_FACTOR | N |
| WIRES | N |
| SPACETYPE | PAVERS |
| SITETYPE | PIT |
| GROWSPACE | 4 |
| DIAM | 20 |
| CONDITION_RATING | 3 |
| FUNDING_SOURCE | SDOT |
| COMMENTS | TrunkLean=0, Topped=0, BrnDefect=0, TrnD |
| TOTAL_RANK | 9 |
| TOTAL_COUNT | 4596 |
| GENUS | Fraxinus |
| UFMAINTMGMTUNIT | 13 |

- Accomplishment Tracking




- Reporting

i-Tree
Ecosystem Analysis
2022 EOY Street Tree Analysis



Urban Forest Effects and Values
March 2023

i-Tree
Ecosystem Analysis
2023 Final Street Tree Report



Urban Forest Effects and Values
February 2024

How do we use the Data?

Emerald Ash Borer Why Form a Plan?

Our priority pests aren't here yet,
but will be soon

**Currently 4,596 inventoried ash
street trees (#9 – 199,614 total)**

Spread from urban to rural

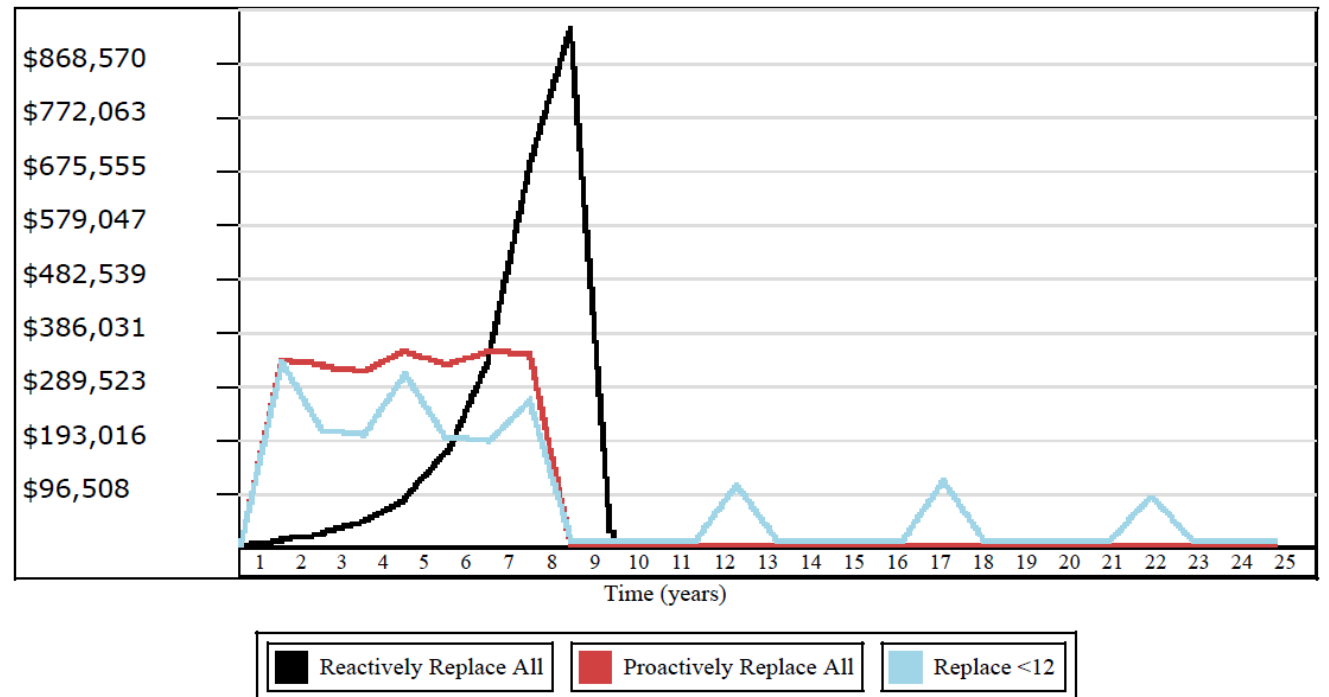
More expensive and destructive to
wait

Priority for state & federal
regulatory authorities

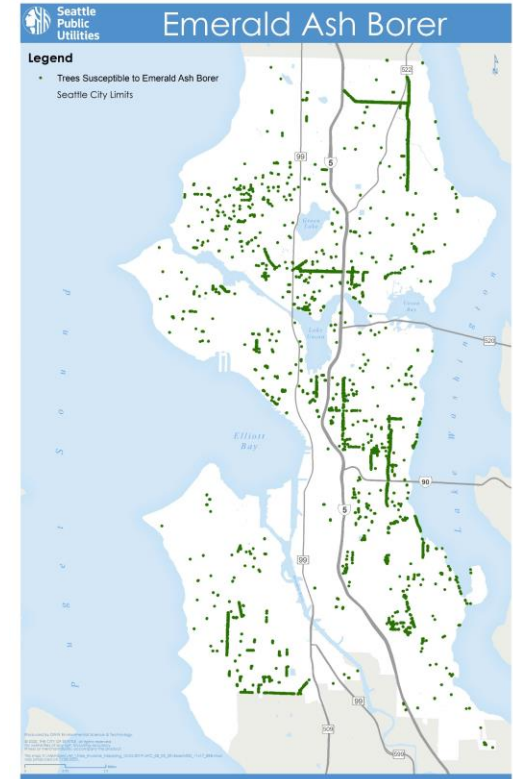
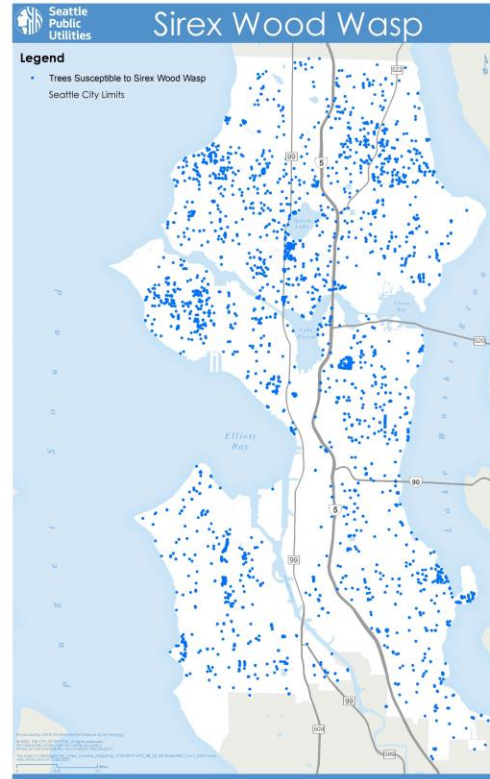
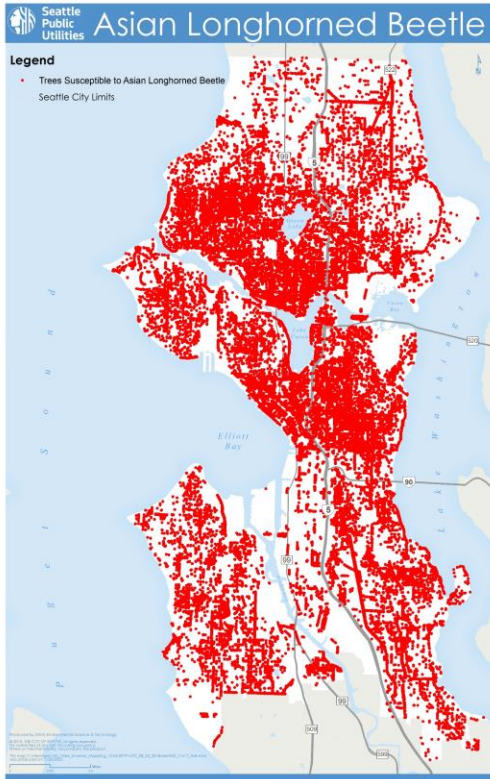
Creation of Washington State Urban
Forest Pest Readiness Playbook

Emerald Ash Borer Cost Estimate for Seattle

Annual Cost Comparison in Today's Dollars
Over Time With a 3% Discount Rate



Purdue University EAB Cost Calculator



Map Credit: GIS Analysts in the Environmental Science & Technology Division in Drainage and Waste Water in Seattle Public Utilities

Host Trees of Priority Pests

THANK YOU!

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www.seattle.gov/transportation

