

## **DOWNERS GROVE VILLAGE TREES**

The Village of Downers Grove maintains a tree inventory of its public trees. Forestry Staff utilizes this tree inventory for planning purposes and the management of daily work activities. These public trees can be categorized into five different groups based on the type of location or property in the Village:

- 1) Parkway trees - individual trees are spaced apart in the standard open parkways along a street (a parkway is the landscaped border or center strip of a roadway). Easiest to identify are the parkway trees located between the public sidewalk and the street. In areas without sidewalks or where the right-of-way extends beyond the sidewalk, parkway trees are marked or coded with a yellow paint dot on the street side of the stem.
- 2) Wooded parkways - parkways with closely spaced trees and other vegetation. Such parkways, regardless of size, are noted on the inventory as one wooded location for each property address that has such a parkway. The exact tree number within each wooded location has not yet been determined.
- 3) Jointly owned trees - trees which lie on the property line between private property and Village right-of-way. Jointly owned trees are marked with a blue paint dot on the street side of the stem. To be considered jointly owned, more than 20% of the stem must reside on the Village side of the property line; trees with more than 80% of the stem on the Village side of the property line are considered to be completely owned by the Village.
- 4) Village properties trees – trees on properties owned by the Village
- 5) Unimproved right-of-ways and alleys – trees located on property where a street was not constructed or where there are alleys including those with gravel roadways or public sidewalks

Starting in 1993, Forestry Staff began to computerize the tree inventory in order to allocate public resources in the most effective, efficient and professional manner. By 1994, all parkway trees were inventoried and an accurate count of each tree species was available. Within a few years, the tree inventory had expanded to include wooded location notes, jointly owned trees and Village properties trees. Trees located in unimproved right-of-ways and alleys remain to be inventoried and have proven to be the most difficult to develop an inventory technique for so far. Forestry Staff collected most initial tree information by surveying trees from behind the windshield of a vehicle (windshield survey). Any history information was added from records, files and landscape plans in the office. Regular routine field inspections are used to update tree information. On an almost daily basis, the tree inventory is updated to record new plantings, removals, and changes in sizes and condition.

Parkway trees comprise the majority of the Village's public tree inventory. In terms of forestry

activities, the majority then focuses on parkway trees located in standard open parkways. Trees in wooded parkways and jointly owned trees are handled on a case by case basis. Trees on Village properties are maintained along with their respective landscapes. Unimproved right-of-ways and alleys are kept in their natural state where any forestry activities usually involves pruning to provide adequate height clearance, or removing dead trees as needed.

For more than two decades, the tree inventory has been evaluated and tabulated on an annual basis. The following tables and figures summarize various aspects of the tree inventory.

Table 2.1 lists the current tree inventory numbers by location type.

Table 2.2 lists tree inventory numbers from 1994 to 2020, as well as numbers for other significant dates. Since the first tree inventory in 1967 of 9,382 trees, the parkway tree population has grown and increased to 22,572 trees.

Table 2.3 lists the number of individual tree species located on open parkways, those found as jointly owned, and those located on Village properties. Over 100 different tree species are present in the parkways of Downers Grove.

Tables 2.4a, 2.4b and 2.4c list the most common parkway tree species, tree genera and taxonomic families. Most notable tree species are honeylocust, silver maple, Norway maple, and American linden. All together, the 32 most common tree species represent 92.19% of the total population. Honeylocust (*Gleditsia*), and maple (*Acer*) additionally dominate the tree genera, and also the corresponding taxonomic families of Legume and Maple. Currently, honeylocust is the only species representing more than 10% of the inventory, and 3 species (silver maple, Norway maple, American linden) are between 5% and 8%.

Figure 2.1 illustrates the distribution of tree genera shown in Table 2.4b. The maple genus is the dominant genus in Downers Grove, with the honeylocust genus a distant second. The oak genus has been increasing and is in third place, surpassing the linden genus which is now in fourth place.

Table 2.5 lists the number of trees currently still alive that were planted in a given decade by the Forestry Division planting contracts, engineering projects, residents and new subdivisions. Records indicate over 15,311 trees, or 67.83% of the current parkway tree population, have been planted in the Village since 1970. The planting records also indicate that past planting practices contributed to the high percentages of the tree species listed in Table 2.4.

Table 2.6 lists the number of trees planted per decade on Village properties. The table indicates that 80% of the Village property trees have been planted since 1970.

Tables 2.7, 2.8, and 2.9 show the tree stem diameter range for parkway trees, jointly owned trees, and trees on Village properties. A significant number of the trees are in the smaller diameter size classes. This corresponds to the planting records apparent in Tables 2.5 and 2.6, particularly the planting of the most common tree species (listed in

Table 2.4a).

Figure 2.2 illustrates this distribution of the parkway tree stem diameter spread. Most parkway trees or 89.89% are less than 24 inches in diameter, and only 10.11% are greater than 24 inches in diameter. Along with the planting records in Table 2.5, Figure 2.2 illustrates that a majority of the parkway trees are less than 60 years in age.

Tables 2.10, 2.11, and 2.12 list tree condition for parkway trees, jointly owned trees, and trees on Village properties. Of the parkway trees, 86.3% are in good condition. Of the Village property trees, 87.8% are in good condition.

Figure 2.3 illustrates parkway tree condition.

Table 2.13 compares parkway tree species numbers in 4 year increments from 1994 to 2018 plus 2020. Though the overall tree inventory count has not changed much in the last 27 years, counts of individual species have. Most notable are increases in the numbers of freeman maple, and oaks such as bur, red and swamp white oak. Equally interesting are decreases in the numbers of green ash, black cherry, boxelder maple and mulberry.

Table 2.14 lists tree species rating ranges in 4 year increments from 1994 to 2018 plus 2020. Tree species ratings originally used in the 9<sup>th</sup> Edition of the Guide for Plant Appraisal have been revised and updated by Forestry staff. Tree species ratings are essentially a quality rating based on species characteristics such as environmental adaptability, biological traits such as growth rate and pest resistance, maintenance requirements and aesthetic characteristics. Species ratings values range from 0 to 100, with low numbers generally for weedy trees susceptible to storm damage, and high numbers for higher quality and more durable trees. Table 2.14 reveals that the percentage of trees with a tree species rating greater than 50 has been increasing in the last 27 years. The upward trend towards higher quality trees indicates the Urban Forestry Program is successfully working toward the goals listed in Chapter 1. This includes removing crowded low quality trees, and planting and properly spacing high quality trees.

Table 2.15 lists that the majority of parkway trees are located on parkways along Village owned and controlled streets. The Illinois State Department of Transportation has jurisdiction over two main streets (Ogden Avenue and Butterfield Road) that pass through the Village. DuPage County also has jurisdiction over several larger streets that pass through the Village such as 55<sup>th</sup> Street and 63<sup>rd</sup> Street. The majority of parkway trees on State and County streets are managed by the Village forestry division and appropriate permits are obtained for planting, pruning and removal activities.

Table 2.16 indicates that 1,957 parkway trees (8.67% of the total) have some type of overhead utility lines. Of those, 1041 parkway trees (4.61% of the total population) are properly planted tree species that have shorter mature heights that will not grow up and into those overhead wires.

Table 2.17 indicates that 10.935% of the parkway trees are on parkways without public

sidewalks, 2.40% of the parkway trees are located behind public sidewalks, and another 1.1% are in medians and islands.

In sections of the Village with the largest trees, there is always curiosity and interest as to their age. For various tree species, stem diameter measurements and annual ring counts (tree age) have been collected over several years from trees that have been removed. By plotting tree stem diameter versus tree age, a curve can be fitted to the points to illustrate the typical size a tree will grow to in so many given years as determined by the environmental conditions present in Downers Grove. Various tree species have had their data plotted, and age estimates are shown in Table 2.18. Species with fast growth rates such as green ash, American elm, boxelder maple, and silver maple increase in diameter more quickly than those with more moderate growth rates such as sugar maple, and various oaks. From Table 2.18, an educated guess can be made that many of the large oak trees greater than 24 inches in diameter are probably over 120 years old.

In addition to the oldest trees, there is an interest as to how fast trees will grow. Table 2.19 lists the results of a Morton Arboretum study of various tree species that have been planted in Downers Grove parkways. Records from the tree inventory such as year of planting, diameter at planting, and then incremental stem diameter measurements were extracted. The Morton Arboretum study plotted tree age (based on the year of planting) and stem diameter increases, and found overall, a typical tree can be expected to be 15 inches in diameter at 30 years of age.

Another interesting aspect of large trees is their wood weight. Table 2.20 lists the weight of green logs for various tree species as calculated by using numbers from ANSI Z133.1-2017. By looking at the trees listed as being greater than 24 inches in Table 2.7 and then comparing that to numbers in Table 2.20, over 1000 trees have stems with weights more than 3000 lbs.

Trees also provide a variety of benefits that can be measured. In order to show the benefits, Downers Grove participated in the 2012 region-wide tree-tagging effort to celebrate “Arbor Week” from Earth Day (April 22, 2102) to Arbor Day (April 27) – see also press releases in Chapter 15. Using calculations based on scientific data (see website for National Tree Benefit Calculator at <http://www.treebenefits.com/calculator/>), tree benefits in numerical form can be determined for a variety of trees. In 2012, numbers were determined for various trees located in the downtown area, and then printed on “Value Tags” which were hung from each tree. The tree tags showcase how it pays to plant trees by placing values on carbon reduction, electrical energy savings and property value impacts. This event was repeated in 2013 and 2014. Table 2.21 displays the calculated values for various common parkway trees at different sizes.

The parkway tree inventory has remained relatively stable for the last 27 years. In terms of actual numbers from 1994 to 2020:

- May 2002 had the highest number - 23,842 parkway trees
- Aug 1994 had the lowest number - 22,320 parkway trees
- Average from 1994 to 2020 - 23,289 parkway trees

Upon closer review of Table 2.2, the parkway tree numbers from May 2010 to May 2020 have trended downward slightly. Reasons include:

- Removal of dead or declining trees which were in crowded clusters such as ash, silver maple, Colorado spruce, and crabapple (see changes in Table 2.13)
- Properly spacing replacement trees such that individual trees can develop full tree crowns
- Not replacing or planting new trees where site conditions are not adequate including sight distance issues or vision obstructions, utility conflicts (water sanitary gas electric), narrow parkways with wide driveways, drainage limitations and ditch water flow conflicts, overhanging large vegetation on private property
- Fewer new subdivisions and developments that require new parkway trees
- No spring 2020 tree plantings (an estimated 300 trees) due to a new and significant outbreak of Coronavirus Disease 2019 (COVID-19) which negatively impacted the Village budget

In general, tree removals have been greater than tree plantings in the last decade. Chapter 4 Tree Planting and Chapter 6 Tree and Stump Removal provide more details on each activity. From May 2010 to May 2020, the difference between the highest parkway tree inventory number and the lowest parkway tree inventory number is 810 trees or 3.46%. Even with parkway tree inventory actual numbers having decreased by a small percentage, the number and percentage of trees with a Species Rating greater than 50 has been increasing as shown in Table 2.14.

One way that the parkway tree inventory is likely to increase in numbers will be with new annexations and corresponding developments. Downers Grove has several areas within the boundary limits that are currently unincorporated. Some of the property lots in these areas are large and are being subdivided. Most of these areas were to be annexed into the Village as large sections; however previous annexation agreements have been allowed to lapse. Currently, individual parcels are annexed with new construction or if a contiguous parcel wants to annex. Of the remaining unincorporated areas, preliminary windshield surveys were conducted in January 2013 to determine the approximate number of trees. Table 2.22 lists the areas and the tree numbers. Once all areas are annexed, the parkway tree population could potentially increase by 5.6%.

Another way the parkway tree inventory can grow is by planting all vacant locations. An active

planting program since 1970 has already planted trees on a large percentage of the parkways in Downers Grove. Presently, many of the remaining available open parkways have ditches without public sidewalks where situating trees may be more difficult than parkways with sidewalks, curbs and underground stormwater sewers. In the last decade, inspections of open parkways in the Village has revealed a number of vacant planting locations which are then added to the tree inventory. An option in the future may be to actively pursue tree planting in these areas though careful planning will be needed with the Engineering staff to account for new sidewalk installations and stormwater sewer work. Chapter 4 – Tree Planting discusses tree planting in potential open locations and the progress to date. Parkways located on state or county right-of-ways are excluded from this list of potential planting locations because environmental conditions may limit optimum tree growth.

As the Village has expanded, added new subdivisions and experienced growth in many forms, the overall tree canopy cover has been impacted. The Chicago Region Trees Initiative (CRTI) has assessed tree canopy cover in northern Illinois and is encouraging activities that would increase tree canopy cover. Generally when compared to adjacent communities, the Village has a healthy tree canopy cover that has potential to increase by 2050. Overall, DuPage County is listed as having 26% tree canopy coverage, with the value for Downers Grove listed as 33%. More information can be found at <http://chicagorti.org/interactivemap> and in Appendix 5.

To better illustrate and map various known tree attributes, the tree inventory has been linked to a more sophisticated computer program. Technological advancements in computer hardware and software have brought computer aided drafting (CAD) and database management together to form a data management system known as Geographic Information Systems (GIS). GIS can efficiently display all forms of geographically referenced information such that each spatial object or coordinate pair point on the map is linked with information about that point or object in the database. Other infrastructure layers include the street system, the sewer system, the water system, and the public buildings.

The Village is currently using the GIS system to produce a variety of maps to show all infrastructure systems in an area or for projects. All parkway trees were plotted by April 2001, and jointly owned trees, wooded parkways and Village property trees were mapped shortly thereafter. Just as the current tree inventory is updated as changes and corrections are found, map points are periodically reviewed to keep all information as up to date as possible. Several maps on the following pages show tree attributes. The first map highlights the 11 prominent genera. Monoculture plantings of the 1960's and 1970's can be seen on this map as solid colors along streets. The next two maps show where trees with stem diameters ranging from 0-24" and those with stem diameters greater than 24" are located. These maps indicate that the oldest and largest trees are in the center of the community.

Data management is crucial for the computerized tree inventory contains a large amount of information. The tree inventory is set up as a database in GBA Lucity Master Series asset management software with connections to Access 2013. Originally started in 1993 with a different database program with limited fields, the current tree inventory database has significantly expanded over the years. Any updates and corrections are entered promptly in order to keep all tree information as current as possible. GBA Lucity Master Series and Microsoft Access 2013 have been easy for staff to use and are installed on the Village computer network system server. To ensure data is preserved, the entire Village computer network is backed up nightly and thirty days of copies are stored at an offsite location.

The following pages contain all the tables, figures, and maps in the order in which they were discussed.

Table 2.1 - Current Tree Inventory Status, May 2020

<u>Village Location Type</u>	<u>Total Tree Number</u>
Parkway Trees in the Standard Open Parkways	22,572
Wooded Parkways	286 locations, tree # unknown (each location refers to a property address that has such a parkway)
Jointly Owned	76
Village Properties	519
Unimproved ROWs and alleys	Unknown

Table 2.2 - Tree Inventory History

Date	Standard Open Parkways	Wooded Parkways	Jointly Owned	Village Property
Aug 1994	22,320	207	67	Unknown
May 1995	22,855	238	88	Unknown
May 1996	23,080	238	108	Unknown
May 1997	23,134	270	168	Unknown
May 1998	23,101	284	175	624
May 1999	23,271	288	174	618
May 2000	23,536	288	163	604
May 2001	23,691	290	156	584
May 2002	23,842	294	156	583
May 2003	23,609	309	155	562
May 2004	23,561	309	151	539
May 2005	23,719	307	144	532
May 2006	23,760	307	144	530
May 2007	23,586	302	149	528
May 2008	23,508	302	141	512
May 2009	23,575	300	139	595
May 2010	23,514	300	137	584
May 2011	23,380	297	138	581
May 2012	23,278	297	115	581
May 2013	23,382	303	114	625
May 2014	23,272	305	106	611
May 2015	23,220	305	100	604
May 2016	23,102	305	91	582
May 2017	23,029	308	88	576
May 2018	23,005	305	85	563
May 2019	22,902	294	83	533
May 2020	22,572	286	76	519
Average 1994 to 2020	23,289	290	126	573

Table 2.2 - Tree Inventory History - continued

Parkway Tree Inventory Data

Overall from 1994 to 2020

Highest number of parkway trees in a given year	May 2002	23,842
Lowest number of parkway trees in a given year	Aug 1994	22,320
Average of 27 years -		23,289

By Decade	Average Number of Trees
1994 to 2000	23,042
2001 to 2010	23,637
2011 to 2020	23,114

Prior to 1994, Tree Inventories were conducted and results reported only for two specific timeframes

Date	Number of Trees	
Mar 1967	9,382	Survey of parkway trees by species
Aug 1981	19,782	Census count of trees on each street

TABLE 2.3 TREE INVENTORY NUMBERS - May 2020

TREE SPECIES	STANDARD OPEN PARKWAY	JOINTLY OWNED	VILLAGE PROPERTY
Alder, Black	5	0	0
Alder, Speckled	0	0	1
Apple	3	0	0
Arborvitae spp.	175	0	75
Ash, Blue	5	0	0
Ash, European	3	0	0
Ash, Green	668	1	0
Ash, White	791	0	7
Baldcypress	162	0	1
Birch, Hybrid	6	0	0
Birch, Paper	2	0	0
Birch, River	81	0	1
Birch, White	4	0	0
Buckeye, Hybrid Arnoldiana	22	0	0
Buckeye, Ohio	47	0	1
Buckeye, Yellow	4	0	0
Buckthorn	11	0	0
Butternut	6	0	0
Catalpa	241	0	3
Catalpa, Purple Hybrid	13	0	0
Cherry, Black	23	4	0
Cherry spp.	18	1	0
Coffeetree, Kentucky	517	0	11
Corktree, Amur	12	0	0
Crabapple	893	1	42
Dogwood, Corneliancherry	17	0	0
Douglasfir	6	0	22
Elm, American	236	3	0
Elm, Hybrid	425	0	6
Elm, Red	2	0	0
Elm, Siberian	134	11	7
Filbert, Turkish	13	0	1
Fir, White	0	0	10
Ginkgo	577	0	4
Hackberry, Common	1096	2	14
Hackberry, Sugar	66	0	1
Hawthorn, Cockspur	71	0	3
Hawthorn, Downy	7	0	0
Hawthorn, Green	2	0	1
Hawthorn, Washington	13	0	5

TABLE 2.3 cont. TREE INVENTORY NUMBERS

TREE SPECIES	STANDARD OPEN PARKWAY	JOINTLY OWNED	VILLAGE PROPERTY
Hickory, Bitternut	2	0	0
Hickory, Shagbark	8	0	1
Honeylocust	2870	2	100
Hornbeam, American	12	0	3
Hornbeam, European	6	0	0
Horsechestnut	20	0	0
Horsechestnut, Red	24	0	2
Ironwood	10	0	1
Juniper spp. (upright)	37	0	9
Katsuratree	6	0	0
Larch, American	2	0	0
Lilac Tree	322	0	4
Linden, American	1246	0	9
Linden, Littleleaf	869	0	0
Linden, Silver	140	0	0
Locust, Black	79	4	2
Magnolia, Loebneri	3	0	0
Magnolia, Saucer	16	1	0
Magnolia, Star	0	0	2
Maple, Amur	3	0	16
Maple, Black	29	0	2
Maple, Boxelder	15	1	0
Maple, Freeman	1074	0	1
Maple, Hedge	69	0	5
Maple, Miyabe	247	0	21
Maple, Norway	1660	3	22
Maple, Paperbark	2	0	0
Maple, Red	538	0	1
Maple, Silver	1776	13	0
Maple, Sugar	801	4	4
Maple, Tatarian	3	0	0
Maple, Truncatum	11	0	0
Mountainash, European	1	0	0
Mulberry, White	37	1	4
Oak, Bur	543	5	2
Oak, Chinkapin	187	0	8
Oak, English	70	0	0
Oak, English-Bur Hybrid	12	0	0
Oak, English-Swamp White Hybrid	56	0	1

TABLE 2.3 cont. TREE INVENTORY NUMBERS

TREE SPECIES	STANDARD OPEN PARKWAY	JOINTLY OWNED	VILLAGE PROPERTY
Oak, English-White Hybrid	4	0	0
Oak, Hills	2	0	1
Oak, Hills-Black Hybrid	10	0	0
Oak, Hybrid Scarlet Letter	7	0	0
Oak, Pin	91	1	0
Oak, Red	263	1	1
Oak, Sawtooth	11	0	0
Oak, Shingle	185	0	0
Oak, Shumard	2	0	1
Oak, Swamp White	823	0	17
Oak, White	66	5	7
Osage Orange	18	0	0
Pear	862	0	21
Pecan	7	0	0
Pine, Austrian	24	1	7
Pine, Jack	2	0	0
Pine, Mugo	1	0	0
Pine, Red	6	0	0
Pine, Scotch	17	0	0
Pine, White	42	1	2
Planetree, London	134	0	3
Poplar, Bigtooth Aspen	1	0	0
Poplar, Cottonwood	56	2	0
Poplar, Quaking Aspen	4	0	0
Poplar, White	3	2	1
Redbud	15	0	1
Redwood, Dawn	19	0	1
Russian Olive	1	0	0
Serviceberry spp.	45	0	10
Sourgum Black Tupelo	9	0	0
Spruce, Black	14	1	0
Spruce, Colorado	168	4	4
Spruce, Norway	64	0	2
Spruce, White	13	1	0
Sweetgum	38	0	1
Sycamore	90	0	0
Tree of Heaven	3	0	0
Tuliptree	187	0	1
Walnut, Black	78	0	2
Walnut, English	1	0	0
Yellowwood	2	0	0
Zelkova	1	0	0
TOTAL	22572	76	519

**Table 2.4a**

## Most Common Parkway

Tree Species	Number	Percent
Honeylocust	2870	12.71
Maple, Silver	1776	7.87
Maple, Norway	1660	7.35
Linden, American	1246	5.52
Hackberry, Common	1096	4.86
Maple, Freeman	1074	4.76
Crabapple	893	3.96
Linden, Littleleaf	869	3.85
Pear	862	3.82
Oak, Swamp White	823	3.65
Maple, Sugar	801	3.55
Ash, White	791	3.50
Ash, Green	668	2.96
Ginkgo	577	2.56
Oak, Bur	543	2.41
Maple, Red	538	2.38
Coffeetree, Kentucky	517	2.29
Elm, Hybrid	425	1.88
Lilac Tree	322	1.43
Oak, Red	263	1.17
Maple, Miyabe	247	1.09
Catalpa	241	1.07
Elm, American	236	1.05
Tuliptree	187	0.83
Oak, Chinkapin	187	0.83
Oak, Shingle	185	0.82
Arborvitae spp.	175	0.78
Spruce, Colorado	168	0.74
Baldcypress	162	0.72
Linden, Silver	140	0.62
Elm, Siberian	134	0.59
Planetree, London	134	0.59
TOTAL	20810	92.19

**Table 2.4b**

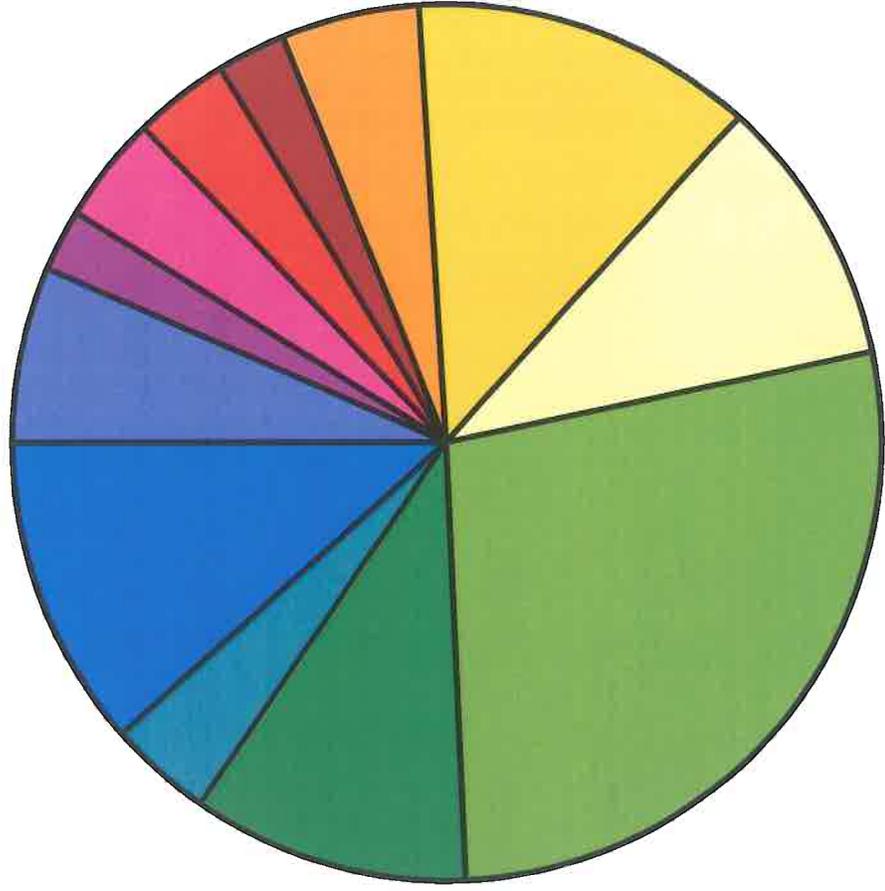
GENUS	Number	Percent
Ash ( <i>Fraxinus</i> )	1467	6.50
Coffeetree ( <i>Gymnocladus</i> )	517	2.29
Crabapple ( <i>Malus</i> )	893	3.96
Elm ( <i>Ulmus</i> )	798	3.54
Ginkgo ( <i>Ginkgo</i> )	577	2.56
Hackberry ( <i>Celtis</i> )	1162	5.15
Honeylocust ( <i>Gleditsia</i> )	2870	12.71
Linden ( <i>Tilia</i> )	2255	9.99
Maple ( <i>Acer</i> )	6228	27.59
Oak ( <i>Quercus</i> )	2328	10.31
Pear ( <i>Pyrus</i> )	862	3.82
Remaining	2615	11.59
Sum	22572	100.00

**Table 2.4c**

FAMILY	Number	Percent
Beech	2332	10.33
Bignonia	254	1.13
Birch	139	0.62
Buckthorn	11	0.05
Cedar	212	0.94
Dogwood	17	0.08
Elm	798	3.54
Ginkgo	577	2.56
Hemp	1162	5.15
Horsechestnut*	117	0.52
Katsura	6	0.03
Legume	3483	15.43
Linden	2255	9.99
Magnolia	206	0.91
Maple*	6228	27.59
Mulberry	55	0.24
Olive	1790	7.93
Pine	359	1.59
Quassia	3	0.01
Redwood	181	0.80
Rose	1938	8.59
Rue	12	0.05
Sycamore	224	0.99
Tupelo	9	0.04
Walnut	102	0.45
Willow	64	0.28
Witchhazel	38	0.17
Sum	22572	100.00

\*Horsechestnut and Maple are part of Soapberry Family

# Figure 2.1 Downers Grove Parkway Trees May 2020



- ASH - 4 SPECIES 6.50%
- COFFEETREE 2.29%
- CRABAPPLE 3.96%
- ELM - 4 SPECIES 3.53%
- GINKGO 2.56%
- HACKBERRY - 2 SPECIES 5.15%
- HONEYLOCUST 12.71%
- LINDEN - 3 SPECIES 9.99%
- MAPLE - 13 SPECIES 27.59%
- OAK - 16 SPECIES 10.33%
- PEAR 3.82%
- REMAINING 71 SPECIES 11.57%

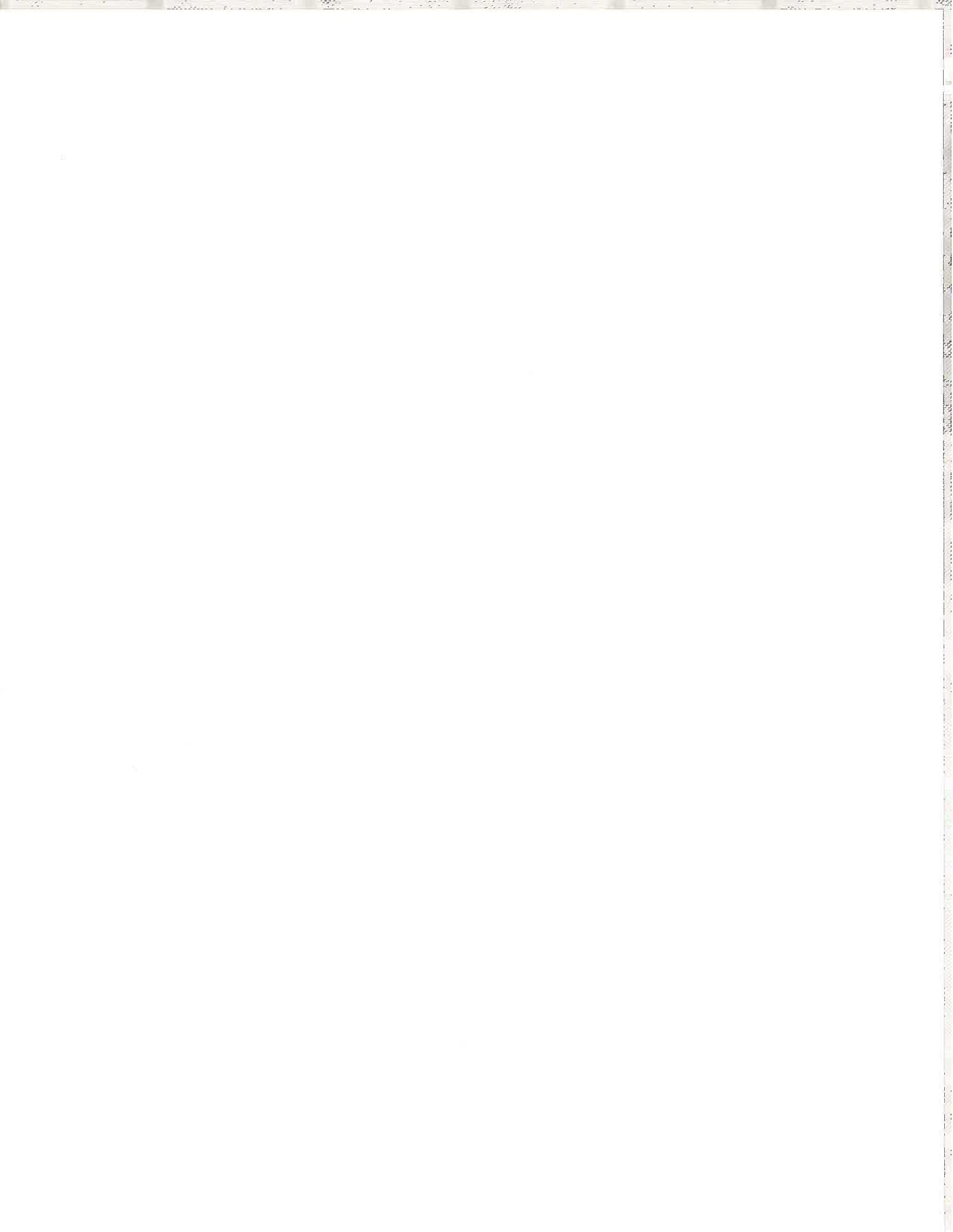


TABLE 2.5 Parkway Trees Planted per Decade

TREE SPECIES	Decade					
	1970-79	1980-89	1990-99	2000-09	2010-19	2020-29
Alder, Black	0	3	0	0	2	0
Ash, Blue	0	2	3	0	0	0
Ash, Green	72	109	100	23	0	0
Ash, White	0	204	338	147	0	0
Baldcypress	0	0	39	31	90	0
Birch, Paper	0	0	0	0	2	0
Birch, Hybrid	0	0	0	6	0	0
Birch, River	0	5	11	15	50	0
Buckeye, Hybrid Arnoldiana	0	0	0	0	23	0
Buckeye, Ohio	0	4	22	9	1	0
Buckeye, Yellow	0	0	0	0	4	0
Butternut	0	0	2	0	4	0
Catalpa	0	3	32	41	99	0
Catalpa, Purple Hybrid	0	0	0	0	13	0
Chokecherry	0	0	0	1	13	0
Coffeetree, Kentucky	0	198	132	44	107	0
Corktree, Amur	0	4	0	0	0	0
Crabapple	3	62	330	215	197	0
Dogwood, Corneliancherry	0	0	0	0	17	0
Elm, American	0	0	0	0	78	0
Elm, Hybrid	0	1	27	131	262	0
Filbert, Turkish	0	0	0	12	4	0
Ginkgo	42	142	59	56	184	0
Hackberry, Common	135	350	185	61	204	0
Hackberry, Sugar	0	12	48	0	0	0
Hawthorn, Cockspur	0	3	45	12	12	0
Hawthorn, Green	0	0	2	0	0	0
Honeylocust	724	442	353	113	176	0
Hornbeam, American	0	0	0	0	12	0
Hornbeam, European	0	0	0	0	2	0
Horsechestnut	0	0	0	0	2	0
Horsechestnut, Red	0	0	0	9	15	0
Ironwood	0	0	1	2	7	0
Katsuratree	2	1	1	0	1	0
Larch, American	0	0	2	0	0	0
Lilac Tree	0	0	13	77	224	0
Linden, American	218	315	134	60	216	0
Linden, Littleleaf	185	214	22	159	94	0
Linden, Silver	0	3	11	29	96	0
Locust, Black	0	0	0	0	14	0

TABLE 2.5 cont. Parkway Trees Planted per Decade

TREE SPECIES	Decade					
	1970-79	1980-89	1990-99	2000-09	2010-19	2020-29
Maple, Black	0	7	10	10	1	0
Maple, Freeman	0	5	112	383	564	0
Maple, Hedge	0	17	35	13	3	0
Maple, Miyabe	0	0	1	79	165	0
Maple, Norway	317	376	156	54	70	0
Maple, Paperbark	0	0	1	0	1	0
Maple, Red	32	50	6	18	245	0
Maple, Sugar	92	71	6	188	236	0
Maple, Tatarian	0	0	0	0	3	0
Maple, Trident	0	0	0	0	0	0
Maple, Truncatum	0	0	2	9	0	0
Oak, Bur	13	125	107	48	83	0
Oak, Chinkapin	0	0	8	19	159	0
Oak, English	0	16	35	15	4	0
Oak, English-Bur Hybrid	0	0	0	0	12	0
Oak, English-Swamp White Hybrid	0	0	0	0	56	0
Oak, English-White Hybrid	0	0	0	0	4	0
Oak, Hills	0	0	1	0	0	0
Oak, Hills-Black Hybrid	9	2	0	0	0	0
Oak, Hybrid Scarlet Letter	0	0	0	0	7	0
Oak, Pin	19	10	1	0	1	0
Oak, Red	24	13	28	40	113	0
Oak, Sawtooth	0	0	1	0	10	0
Oak, Shingle	20	0	12	35	115	0
Oak, Shumard	2	0	0	0	0	0
Oak, Swamp White	50	152	211	93	201	0
Oak, White	0	1	0	4	1	0
Pear	9	250	181	194	183	0
Pecan	0	0	4	0	2	0
Planetree, London	3	0	32	5	91	0
Poplar, Quaking Aspen	0	0	0	0	4	0
Redwood, Dawn	0	0	0	2	16	0
Serviceberry	0	0	14	12	20	0
Sourgum Black Tupelo	0	0	0	3	6	0
Sweetgum	0	0	0	0	26	0
Tuliptree	45	2	12	18	89	0
Walnut, Black	0	0	18	1	0	0
Yellowwood	0	0	0	0	2	0
Zelkova	0	0	0	0	1	0

TOTAL 2016 3174 2906 2496 4719 0

OVERALL TOTAL 1970 to present 15311

% of total 22,572 = 67.83%

TABLE 2.6 Village Property Tree Plantings per Decade

TREE SPECIES	Decade					
	1970-79	1980-89	1990-99	2000-09	2010-19	2020-29
Alder, Speckled	0	0	0	1	0	0
Arborvitae spp.	0	0	12	51	0	0
Ash, White	0	0	5	1	0	0
Baldcypress	0	0	1	0	0	0
Birch, River	0	0	1	0	0	0
Catalpa	0	0	0	0	3	0
Coffeetree, Kentucky	0	0	4	0	0	0
Crabapple	4	15	11	0	13	0
Douglasfir	20	3	0	0	0	0
Elm, Hybrid	0	0	0	1	3	0
Fir, White	9	0	2	0	0	0
Ginkgo	0	1	0	0	0	0
Hackberry, Common	0	5	0	0	7	0
Hawthorn, Cockspur	0	4	0	0	0	0
Hawthorn, Washington	1	0	4	0	0	0
Honeylocust	60	0	5	5	10	0
Horsechestnut, Red	0	0	0	0	2	0
Ironwood	1	0	0	0	0	0
Lilac Tree	0	0	1	0	2	0
Linden, American	0	4	1	1	3	0
Linden, Littleleaf	0	0	0	0	0	0
Magnolia, Star	0	0	3	0	0	0
Maple, Amur	1	1	8	0	5	0
Maple, Black	0	0	0	0	0	0
Maple, Hedge	0	0	3	0	0	0
Maple, Miyabe	0	0	0	17	4	0
Maple, Norway	18	2	0	0	0	0
Maple, Sugar	0	0	1	4	0	0
Oak, Bur	0	0	1	0	2	0
Oak, Chinkapin	0	0	0	0	8	0
Oak, English-Swamp White Hybrid	0	0	0	0	1	0
Oak, Hills	0	0	0	1	0	0
Oak, Shumard	0	0	0	1	0	0

TABLE 2.6 cont. Village Property Tree Plantings per Decade

TREE SPECIES	Decade					
	1970-79	1980-89	1990-99	2000-09	2010-19	2020-29
Oak, Swamp White	0	0	2	0	12	0
Pear	0	5	11	1	3	0
Pine, Austrian	0	0	4	0	0	0
Pine, White	0	0	1	0	0	0
Planetree, London	0	0	0	0	2	0
Redbud	0	0	1	0	0	0
Redwood, Dawn	0	0	0	1	0	0
Serviceberry spp.	0	0	3	1	6	0
Spruce, Colorado	0	0	0	3	1	0
Spruce, Norway	0	0	0	0	0	0
Sweetgum	0	0	0	0	1	0
Tuliptree	0	0	0	1	0	0
Walnut, Black	0	0	2	0	0	0
TOTAL	114	40	87	90	88	0
OVERALL TOTAL 1970 to present					419	

TABLE 2.7 STEM DIAMETER DISTRIBUTION - PARKWAY TREES

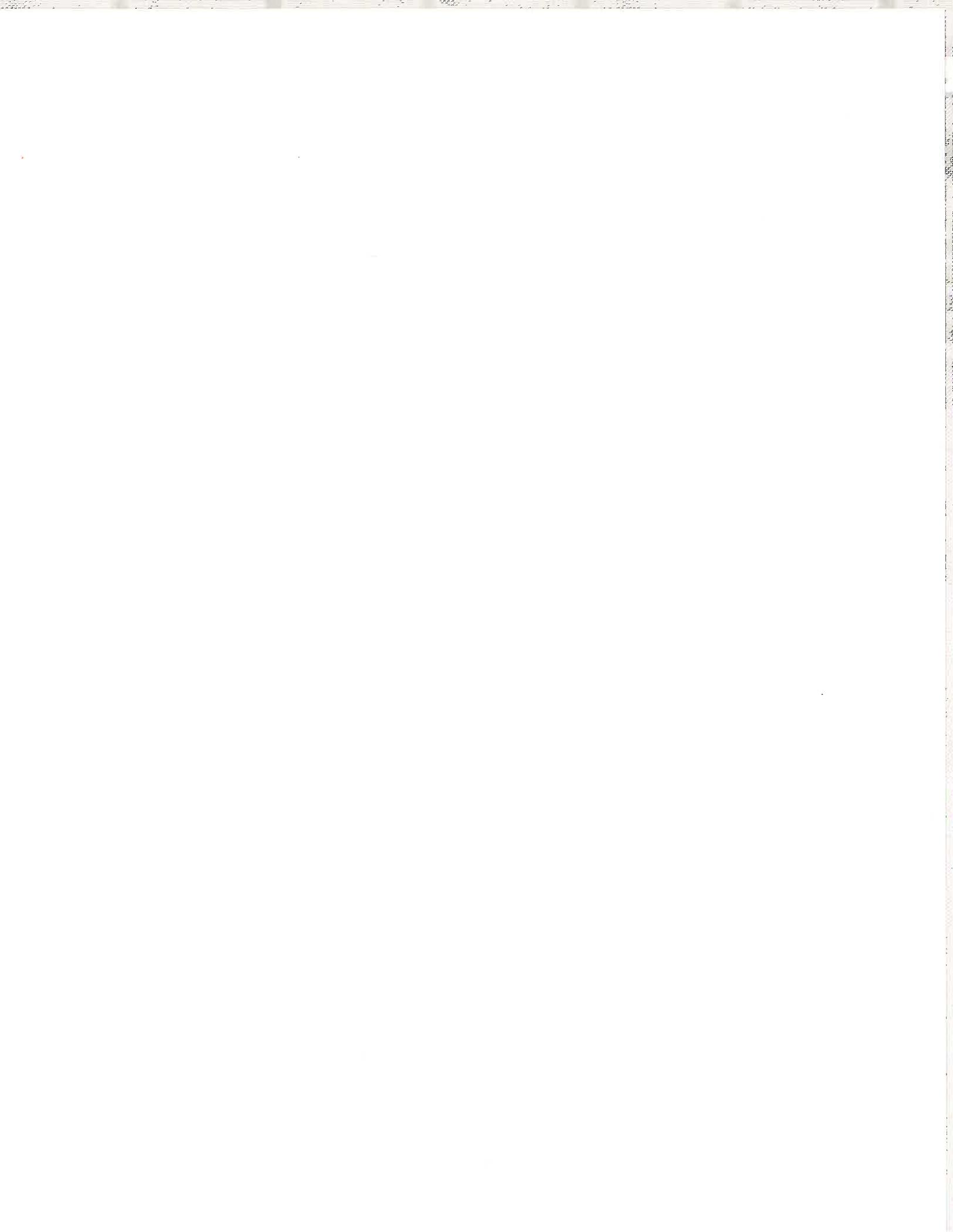
TREE SPECIES	STEM DIAMETER										
	0-6"	6-12"	12-18"	18-24"	24-30"	30-36"	36-42"	42-48"	48-54"	>54"	TOTAL
Alder, Black	2	2	1	0	0	0	0	0	0	0	5
Apple	0	1	0	2	0	0	0	0	0	0	3
Arborvitae spp.	74	99	2	0	0	0	0	0	0	0	175
Ash, Blue	1	3	1	0	0	0	0	0	0	0	5
Ash, European	0	0	1	1	0	1	0	0	0	0	3
Ash, Green	2	67	270	265	56	7	1	0	0	0	668
Ash, White	4	263	353	144	18	9	0	0	0	0	791
Baldcypress	101	31	20	10	0	0	0	0	0	0	162
Birch, Hybrid	4	2	0	0	0	0	0	0	0	0	6
Birch, Paper	2	0	0	0	0	0	0	0	0	0	2
Birch, River	51	15	14	0	1	0	0	0	0	0	81
Birch, White	1	3	0	0	0	0	0	0	0	0	4
Buckeye, Hybrid Arnoldia	22	0	0	0	0	0	0	0	0	0	22
Buckeye, Ohio	8	28	8	3	0	0	0	0	0	0	47
Buckeye, Yellow	4	0	0	0	0	0	0	0	0	0	4
Buckthorn	2	3	5	1	0	0	0	0	0	0	11
Butternut	4	1	1	0	0	0	0	0	0	0	6
Catalpa	96	46	26	16	16	24	13	4	0	0	241
Catalpa, Purple Hybrid	13	0	0	0	0	0	0	0	0	0	13
Cherry, Black	0	4	10	7	1	1	0	0	0	0	23
Cherry spp.	13	1	3	1	0	0	0	0	0	0	18
Coffeetree, Kentucky	138	167	181	30	1	0	0	0	0	0	517
Corktree, Amur	0	3	5	3	1	0	0	0	0	0	12
Crabapple	364	435	88	6	0	0	0	0	0	0	893
Dogwood, Corneliancherr	17	0	0	0	0	0	0	0	0	0	17
Douglasfir	0	2	4	0	0	0	0	0	0	0	6
Elm, American	78	8	16	27	33	34	26	10	3	1	236
Elm, Hybrid	244	120	38	10	12	1	0	0	0	0	425
Elm, Red	0	0	0	1	1	0	0	0	0	0	2
Elm, Siberian	0	6	26	30	37	23	7	5	0	0	134
Filbert, Turkish	6	7	0	0	0	0	0	0	0	0	13
Ginkgo	235	134	142	64	2	0	0	0	0	0	577
Hackberry, Common	236	217	386	208	41	4	2	2	0	0	1096
Hackberry, Sugar	0	47	18	1	0	0	0	0	0	0	66
Hawthorn, Cockspur	51	20	0	0	0	0	0	0	0	0	71
Hawthorn, Downy	1	4	2	0	0	0	0	0	0	0	7
Hawthorn, Green	0	2	0	0	0	0	0	0	0	0	2
Hawthorn, Washington	12	0	1	0	0	0	0	0	0	0	13
Hickory, Bitternut	0	1	1	0	0	0	0	0	0	0	2
Hickory, Shagbark	0	3	2	3	0	0	0	0	0	0	8
Honeylocust	211	221	908	1109	359	54	7	1	0	0	2870

TABLE 2.7 cont. STEM DIAMETER DISTRIBUTION - PARKWAY TREES

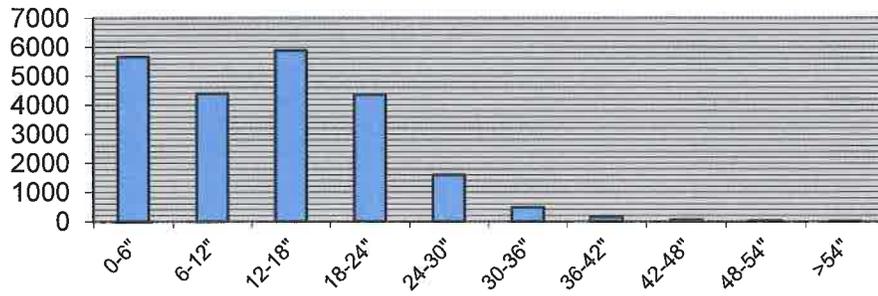
TREE SPECIES	STEM DIAMETER										
	0-6"	6-12"	12-18"	18-24"	24-30"	30-36"	36-42"	42-48"	48-54"	>54"	TOTAL
Hornbeam, American	12	0	0	0	0	0	0	0	0	0	12
Hornbeam, European	6	0	0	0	0	0	0	0	0	0	6
Horsechestnut	2	0	11	3	4	0	0	0	0	0	20
Horsechestnut, Red	23	1	0	0	0	0	0	0	0	0	24
Ironwood	8	2	0	0	0	0	0	0	0	0	10
Juniper spp. (upright)	2	12	19	4	0	0	0	0	0	0	37
Katsuratree	1	1	4	0	0	0	0	0	0	0	6
Larch, American	1	1	0	0	0	0	0	0	0	0	2
Lilac Tree	265	56	1	0	0	0	0	0	0	0	322
Linden, American	226	150	340	356	151	23	0	0	0	0	1246
Linden, Littleleaf	117	181	286	238	40	3	4	0	0	0	869
Linden, Silver	102	23	8	6	1	0	0	0	0	0	140
Locust, Black	14	8	16	17	16	6	2	0	0	0	79
Magnolia, Loebneri	2	1	0	0	0	0	0	0	0	0	3
Magnolia, Saucer	1	6	7	0	2	0	0	0	0	0	16
Maple, Amur	0	1	2	0	0	0	0	0	0	0	3
Maple, Black	8	15	6	0	0	0	0	0	0	0	29
Maple, Boxelder	0	1	6	3	5	0	0	0	0	0	15
Maple, Freeman	583	351	130	10	0	0	0	0	0	0	1074
Maple, Hedge	8	40	21	0	0	0	0	0	0	0	69
Maple, Miyabe	181	59	7	0	0	0	0	0	0	0	247
Maple, Norway	96	349	783	376	55	1	0	0	0	0	1660
Maple, Paperbark	2	0	0	0	0	0	0	0	0	0	2
Maple, Red	279	126	105	24	4	0	0	0	0	0	538
Maple, Silver	2	23	237	687	547	194	66	14	6	0	1776
Maple, Sugar	340	152	183	107	17	2	0	0	0	0	801
Maple, Tatarian	3	0	0	0	0	0	0	0	0	0	3
Maple, Truncatum	5	6	0	0	0	0	0	0	0	0	11
Mountainash, European	1	0	0	0	0	0	0	0	0	0	1
Mulberry, White	2	7	14	8	5	0	1	0	0	0	37
Oak, Bur	105	110	187	79	24	26	7	4	1	0	543
Oak, Chinkapin	163	21	3	0	0	0	0	0	0	0	187
Oak, English	6	14	34	13	3	0	0	0	0	0	70
Oak, English-Bur Hybrid	12	0	0	0	0	0	0	0	0	0	12
Oak, English-Swamp Wh	56	0	0	0	0	0	0	0	0	0	56
Oak, English-White Hybri	4	0	0	0	0	0	0	0	0	0	4
Oak, Hills	0	1	0	0	1	0	0	0	0	0	2
Oak, Hills-Black Hybrid	0	0	1	6	3	0	0	0	0	0	10
Oak, Hybrid Scarlet Lette	7	0	0	0	0	0	0	0	0	0	7
Oak, Pin	1	1	18	34	25	12	0	0	0	0	91

TABLE 2.7 cont. STEM DIAMETER DISTRIBUTION - PARKWAY TREES

TREE SPECIES	STEM DIAMETER										
	0-6"	6-12"	12-18"	18-24"	24-30"	30-36"	36-42"	42-48"	48-54"	>54"	TOTAL
Oak, Red	130	37	44	32	15	4	0	1	0	0	263
Oak, Sawtooth	10	1	0	0	0	0	0	0	0	0	11
Oak, Shingle	123	28	16	17	1	0	0	0	0	0	185
Oak, Shumard	0	0	0	2	0	0	0	0	0	0	2
Oak, Swamp White	231	196	305	89	2	0	0	0	0	0	823
Oak, White	5	2	3	15	25	13	3	0	0	0	66
Osage Orange	0	1	0	15	0	2	0	0	0	0	18
Pear	207	268	282	97	8	0	0	0	0	0	862
Pecan	2	2	3	0	0	0	0	0	0	0	7
Pine, Austrian	2	5	8	4	4	1	0	0	0	0	24
Pine, Jack	0	1	1	0	0	0	0	0	0	0	2
Pine, Mugo	0	1	0	0	0	0	0	0	0	0	1
Pine, Red	0	1	4	0	0	1	0	0	0	0	6
Pine, Scotch	0	5	6	5	1	0	0	0	0	0	17
Pine, White	1	11	20	8	2	0	0	0	0	0	42
Planetree, London	88	12	17	17	0	0	0	0	0	0	134
Poplar, Bigtooth Aspen	0	0	0	0	1	0	0	0	0	0	1
Poplar, Cottonwood	0	0	1	13	11	20	5	3	1	2	56
Poplar, Quaking Aspen	4	0	0	0	0	0	0	0	0	0	4
Poplar, White	0	1	1	0	0	1	0	0	0	0	3
Redbud	4	6	4	1	0	0	0	0	0	0	15
Redwood, Dawn	16	2	0	1	0	0	0	0	0	0	19
Russian Olive	0	1	0	0	0	0	0	0	0	0	1
Serviceberry spp.	45	0	0	0	0	0	0	0	0	0	45
Sourgum Black Tupelo	9	0	0	0	0	0	0	0	0	0	9
Spruce, Black	2	7	5	0	0	0	0	0	0	0	14
Spruce, Colorado	6	73	71	18	0	0	0	0	0	0	168
Spruce, Norway	1	9	35	19	0	0	0	0	0	0	64
Spruce, White	0	8	5	0	0	0	0	0	0	0	13
Sweetgum	26	1	10	1	0	0	0	0	0	0	38
Sycamore	1	1	16	33	27	8	2	1	1	0	90
Tree of Heaven	0	1	0	1	0	1	0	0	0	0	3
Tuliptree	94	19	34	35	4	0	1	0	0	0	187
Walnut, Black	0	11	24	28	11	3	1	0	0	0	78
Walnut, English	0	0	1	0	0	0	0	0	0	0	1
Yellowwood	2	0	0	0	0	0	0	0	0	0	2
Zelkova	1	0	0	0	0	0	0	0	0	0	1
TOTAL	5653	4396	5878	4364	1594	479	148	45	12	3	22572



**Figure 2.2 Parkway Tree Stem Diameter Distribution**



**Figure 2.3 Parkway Tree Condition**

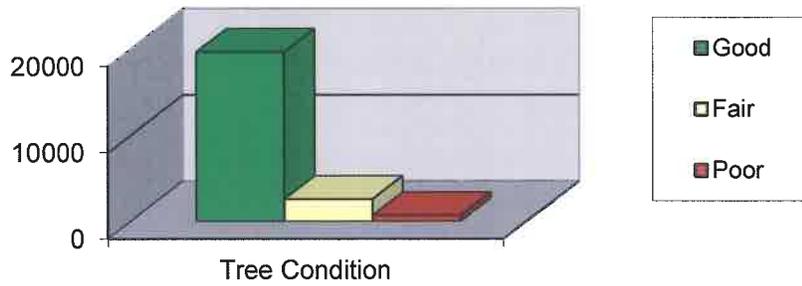




TABLE 2.8 STEM DIAMETER DISTRIBUTION - JOINTLY OWNED TREES

TREE SPECIES	STEM DIAMETER										
	0-6"	6-12"	12-18"	18-24"	24-30"	30-36"	36-42"	42-48"	48-54"	>54"	TOTAL
Ash, Green	0	0	1	0	0	0	0	0	0	0	1
Cherry, Black	0	0	4	0	0	0	0	0	0	0	4
Cherry spp.	0	0	1	0	0	0	0	0	0	0	1
Crabapple	0	1	0	0	0	0	0	0	0	0	1
Elm, American	0	0	0	1	1	1	0	0	0	0	3
Elm, Siberian	0	3	4	2	0	0	2	0	0	0	11
Hackberry	0	0	1	0	1	0	0	0	0	0	2
Honeylocust	0	0	0	0	1	1	0	0	0	0	2
Locust, Black	0	0	1	3	0	0	0	0	0	0	4
Magnolia, Saucer	0	1	0	0	0	0	0	0	0	0	1
Maple, Boxelder	0	0	1	0	0	0	0	0	0	0	1
Maple, Norway	0	0	0	2	1	0	0	0	0	0	3
Maple, Silver	0	0	1	3	2	4	3	0	0	0	13
Maple, Sugar	2	0	0	1	0	1	0	0	0	0	4
Mulberry, White	0	0	1	0	0	0	0	0	0	0	1
Oak, Bur	0	0	1	1	1	0	2	0	0	0	5
Oak, Pin	0	0	0	1	0	0	0	0	0	0	1
Oak, Red	0	0	0	1	0	0	0	0	0	0	1
Oak, White	0	0	0	0	1	3	1	0	0	0	5
Pine, Austrian	0	0	1	0	0	0	0	0	0	0	1
Pine, White	0	0	0	1	0	0	0	0	0	0	1
Poplar, Cottonwood	0	0	0	0	0	1	0	0	1	0	2
Poplar, White	0	0	0	0	0	0	2	0	0	0	2
Spruce, Black	0	1	0	0	0	0	0	0	0	0	1
Spruce, Colorado	0	0	3	1	0	0	0	0	0	0	4
Spruce, White	0	0	1	0	0	0	0	0	0	0	1
TOTAL	2	6	21	17	8	11	10	0	1	0	76

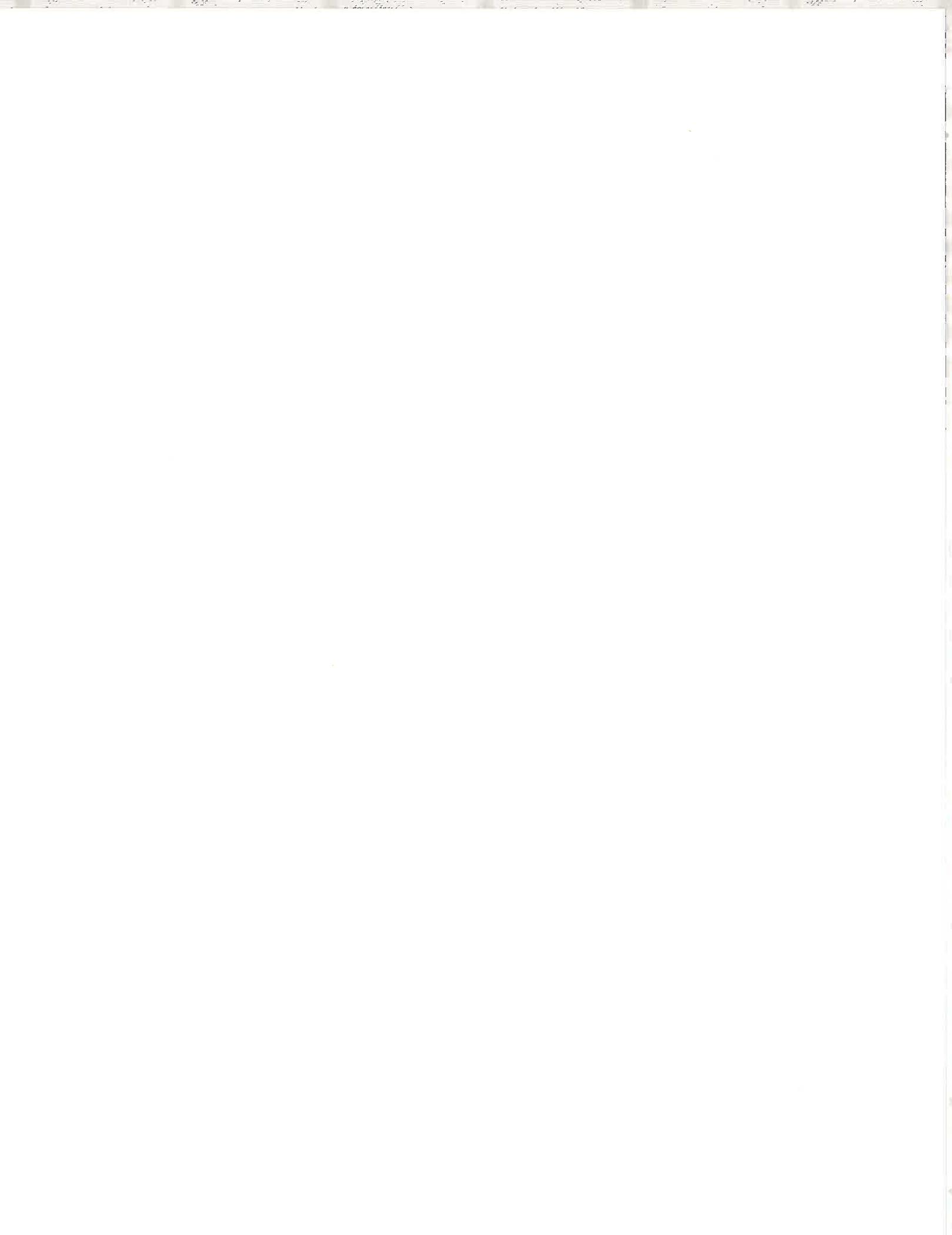




TABLE 2.9 cont. STEM DIAMETER DISTRIBUTION - VILLAGE PROPERTY TREES

TREE SPECIES	STEM DIAMETER										
	0-6"	6-12"	12-18"	18-24"	24-30"	30-36"	36-42"	42-48"	48-54"	>54"	TOTAL
Maple, Norway	0	18	4	0	0	0	0	0	0	0	22
Maple, Red	0	1	0	0	0	0	0	0	0	0	1
Maple, Silver	0	0	0	0	0	0	0	0	0	0	0
Maple, Sugar	0	4	0	0	0	0	0	0	0	0	4
Mulberry, White	0	0	2	2	0	0	0	0	0	0	4
Oak, Bur	2	0	0	0	0	0	0	0	0	0	2
Oak, Chinkapin	8	0	0	0	0	0	0	0	0	0	8
Oak, English-Swamp Wh	1	0	0	0	0	0	0	0	0	0	1
Oak, Hills	0	1	0	0	0	0	0	0	0	0	1
Oak, Red	0	0	1	0	0	0	0	0	0	0	1
Oak, Shumard	0	1	0	0	0	0	0	0	0	0	1
Oak, Swamp White	14	3	0	0	0	0	0	0	0	0	17
Oak, White	0	0	1	5	1	0	0	0	0	0	7
Pear	3	5	10	3	0	0	0	0	0	0	21
Pine, Austrian	0	2	4	1	0	0	0	0	0	0	7
Pine, White	0	1	0	1	0	0	0	0	0	0	2
Planetree, London	1	1	1	0	0	0	0	0	0	0	3
Poplar, White	0	0	0	0	0	1	0	0	0	0	1
Redbud	0	0	1	0	0	0	0	0	0	0	1
Redwood, Dawn	0	0	0	1	0	0	0	0	0	0	1
Serviceberry spp.	10	0	0	0	0	0	0	0	0	0	10
Spruce, Colorado	1	3	0	0	0	0	0	0	0	0	4
Spruce, Norway	0	0	2	0	0	0	0	0	0	0	2
Sweetgum	1	0	0	0	0	0	0	0	0	0	1
Tuliptree	0	0	1	0	0	0	0	0	0	0	1
Walnut, Black	0	2	0	0	0	0	0	0	0	0	2
TOTAL	186	184	108	30	8	3	0	0	0	0	519

TABLE 2.10 TREE CONDITION - PARKWAY TREES

TREE SPECIES / CONDI	GOOD	FAIR	POOR	TOTAL
Alder, Black	3	1	1	5
Apple	2	1	0	3
Arborvitae spp.	168	7	0	175
Ash, Blue	4	1	0	5
Ash, European	0	3	0	3
Ash, Green	572	67	29	668
Ash, White	697	63	31	791
Baldcypress	150	7	5	162
Birch, Hybrid	6	0	0	6
Birch, Paper	2	0	0	2
Birch, River	76	5	0	81
Birch, White	2	1	1	4
Buckey, Hybrid Arnoldian	22	0	0	22
Buckeye, Ohio	47	0	0	47
Bukeye, Yellow	4	0	0	4
Buckthorn	6	3	2	11
Butternut	6	0	0	6
Catalpa	202	34	5	241
Catalpa, Purple Hybrid	13	0	0	13
Cherry, Black	10	6	7	23
Cherry spp.	15	3	0	18
Coffeetree, Kentucky	490	21	6	517
Corktree, Amur	11	1	0	12
Crabapple	848	40	5	893
Dogwood, Corneliancherr	17	0	0	17
Douglasfir	6	0	0	6
Elm, American	167	65	4	236
Elm, Hybrid	412	10	3	425
Elm, Red	1	1	0	2
Elm, Siberian	47	80	7	134
Filbert, Turkish	13	0	0	13
Ginkgo	518	32	27	577
Hackberry, Common	980	93	23	1096
Hackberry, Sugar	5	13	48	66
Hawthorn, Cockspur	57	14	0	71
Hawthorn, Downy	2	4	1	7
Hawthorn, Green	2	0	0	2
Hawthorn, Washington	0	10	3	13
Hickory, Bitternut	1	1	0	2
Hickory, Shagbark	6	2	0	8
Honeylocust	2612	204	54	2870

TABLE 2.10 cont. TREE CONDITION - PARKWAY TREES

TREE SPECIES / CONDI	GOOD	FAIR	POOR	TOTAL
Hornbeam, American	12	0	0	12
Hornbeam, European	6	0	0	6
Horsechestnut	12	6	2	20
Horsechestnut, Red	23	0	1	24
Ironwood	10	0	0	10
Juniper spp. (upright)	31	6	0	37
Katsuratre	3	2	1	6
Larch, American	2	0	0	2
Lilac Tree	319	3	0	322
Linden, American	1083	146	17	1246
Linden, Littleleaf	754	96	19	869
Linden, Silver	136	2	2	140
Locust, Black	48	19	12	79
Magnolia, Loebneri	3	0	0	3
Magnolia, Saucer	12	4	0	16
Maple, Amur	3	0	0	3
Maple, Black	28	0	1	29
Maple, Boxelder	4	7	4	15
Maple, Freeman	1033	27	14	1074
Maple, Hedge	59	9	1	69
Maple, Miyabe	241	5	1	247
Maple, Norway	1325	293	42	1660
Maple, Paperbark	1	1	0	2
Maple, Red	372	147	19	538
Maple, Silver	1295	447	34	1776
Maple, Sugar	691	93	17	801
Maple, Tatarian	3	0	0	3
Maple, Truncatum	11	0	0	11
Mountainash, European	0	1	0	1
Mulberry, White	6	21	10	37
Oak, Bur	497	37	9	543
Oak, Chinkapin	181	2	4	187
Oak, English	64	4	2	70
Oak, English-Bur Hybrid	12	0	0	12
Oak, English-Swamp Wh	56	0	0	56
Oak, English-White Hybri	4	0	0	4
Oak, Hills	1	0	1	2
Oak, Hills-Black Hybrid	8	0	2	10
Oak, Hybrid Scarlet Lette	7	0	0	7
Oak, Pin	47	36	8	91

TABLE 2.10 cont. TREE CONDITION - PARKWAY TREES

TREE SPECIES / CONDI	GOOD	FAIR	POOR	TOTAL
Oak, Red	232	26	5	263
Oak, Sawtooth	10	1	0	11
Oak, Shingle	177	8	0	185
Oak, Shumard	2	0	0	2
Oak, Swamp White	791	21	11	823
Oak, White	45	20	1	66
Osage Orange	0	3	15	18
Pear	771	78	13	862
Pecan	5	2	0	7
Pine, Austrian	16	8	0	24
Pine, Jack	1	0	1	2
Pine, Mugo	0	1	0	1
Pine, Red	3	3	0	6
Pine, Scotch	11	6	0	17
Pine, White	39	3	0	42
Planetree, London	126	7	1	134
Poplar, Bigtooth Aspen	0	1	0	1
Poplar, Cottonwood	29	26	1	56
Poplar, Quaking Aspen	4	0	0	4
Poplar, White	1	1	1	3
Redbud	10	4	1	15
Redwood, Dawn	19	0	0	19
Russian Olive	0	0	1	1
Serviceberry spp.	36	3	6	45
Sourgum Black Tupelo	9	0	0	9
Spruce, Black	9	5	0	14
Spruce, Colorado	133	32	3	168
Spruce, Norway	51	13	0	64
Spruce, White	11	2	0	13
Sweetgum	35	3	0	38
Sycamore	69	19	2	90
Tree of Heaven	0	1	2	3
Tuliptree	173	10	4	187
Walnut, Black	58	18	2	78
Walnut, English	1	0	0	1
Yellowwood	2	0	0	2
Zelkova	1	0	0	1
TOTAL	19485	2532	555	22572

TABLE 2.11 TREE CONDITION - JOINTLY OWNED TREES

TREE SPECIES / CONDI	GOOD	FAIR	POOR	TOTAL
Ash, Green	0	0	1	1
Cherry, Black	1	2	1	4
Cherry spp.	0	1	0	1
Crabapple	1	0	0	1
Elm, American	0	3	0	3
Elm, Siberian	1	4	6	11
Hackberry	0	2	0	2
Honeylocust	1	0	1	2
Locust, Black	0	0	4	4
Magnolia, Saucer	1	0	0	1
Maple, Boxelder	0	1	0	1
Maple, Norway	1	2	0	3
Maple, Silver	4	7	2	13
Maple, Sugar	1	1	2	4
Mulberry, White	0	0	1	1
Oak, Bur	3	2	0	5
Oak, Pin	0	1	0	1
Oak, Red	1	0	0	1
Oak, White	0	5	0	5
Pine, Austrian	1	0	0	1
Pine, White	1	0	0	1
Poplar, Cottonwood	1	1	0	2
Poplar, White	0	2	0	2
Spruce, Black	1	0	0	1
Spruce, Colorado	3	1	0	4
Spruce, White	1	0	0	1
TOTAL	23	35	18	76

TABLE 2.12 TREE CONDITION - VILLAGE PROPERTY TREES

TREE SPECIES / CONDI	GOOD	FAIR	POOR	TOTAL
Alder, Speckled	1	0	0	1
Arborvitae	73	2	0	75
Ash, White	6	1	0	7
Baldcypress	1	0	0	1
Birch, River	1	0	0	1
Buckeye, Ohio	1	0	0	1
Catalpa	3	0	0	3
Coffeetree, Kentucky	11	0	0	11
Crabapple	39	3	0	42
Douglasfir	22	0	0	22
Elm, Hybrid	6	0	0	6
Elm, Siberian	0	7	0	7
Filbert, Turkish	0	1	0	1
Fir, White	10	0	0	10
Ginkgo	2	1	1	4
Hackberry, Common	12	1	1	14
Hackberry, Sugar	0	0	1	1
Hawthorn, Cockspur	3	0	0	3
Hawthorn, Green	1	0	0	1
Hawthorn, Washington	3	1	1	5
Hickory, Shagbark	1	0	0	1
Honeylocust	91	7	2	100
Hornbeam, American	3	0	0	3
Horsechestnut, Red	2	0	0	2
Ironwood	1	0	0	1
Juniper spp. (upright)	5	4	0	9
Lilac Tree	4	0	0	4
Linden, American	9	0	0	9
Locust, Black	0	1	1	2
Magnolia, Star	1	1	0	2
Maple, Amur	16	0	0	16
Maple, Black	2	0	0	2
Maple, Freeman	1	0	0	1
Maple, Hedge	3	2	0	5
Maple, Miyabe	21	0	0	21

TABLE 2.12 cont. TREE CONDITION - VILLAGE PROPERTY TREES

TREE SPECIES / CONDI	GOOD	FAIR	POOR	TOTAL
Maple, Norway	19	3	0	22
Maple, Red	1	0	0	1
Maple, Sugar	4	0	0	4
Mulberry, White	1	3	0	4
Oak, Bur	2	0	0	2
Oak, Chinkapin	8	0	0	8
Oak, English-Swamp Wh	1	0	0	1
Oak, Hills	1	0	0	1
Oak, Red	0	1	0	1
Oak, Shumard	1	0	0	1
Oak, Swamp White	15	2	0	17
Oak, White	1	2	4	7
Pear	16	5	0	21
Pine, Austrian	6	1	0	7
Pine, White	2	0	0	2
Planetree, London	2	1	0	3
Poplar, White	0	1	0	1
Redbud	0	1	0	1
Redwood, Dawn	1	0	0	1
Serviceberry spp.	10	0	0	10
Spruce, Colorado	4	0	0	4
Spruce, Norway	2	0	0	2
Sweetgum	1	0	0	1
Tuliptree	1	0	0	1
Walnut, Black	2	0	0	2
TOTAL	456	52	11	519

TABLE 2.13 Parkway Tree Inventory Comparison 1994, 1998, 2002, 2006, 2010, 2014, 2018 plus 2020

TREE SPECIES	TREE SPECIES RATING*	1994	1998	2002	2006	2010	2014	2018	2020
Alder, Black	20	15	14	12	11	8	7	6	5
Apple	60	12	12	15	12	10	9	5	3
Arborvitae spp.	70	35	157	186	184	181	181	177	175
Ash, Blue	50	4	3	7	7	7	5	5	5
Ash, European	50	9	9	8	8	7	6	3	3
Ash, Green	50	3552	3477	3505	3394	3044	2251	788	668
Ash, White	60	716	918	1104	1116	1059	985	841	791
Baldcypress	80	16	43	49	65	78	106	157	162
Birch, Hybrid	60	0	0	0	6	6	6	6	6
Birch, Paper	40	0	0	0	0	0	0	0	2
Birch, River	70	37	36	38	40	50	66	88	81
Birch, White	20	18	16	12	12	10	9	4	4
Buckeye, Hybrid Arnoldiana	70	0	0	0	0	0	0	16	22
Buckeye, Ohio	70	28	41	47	49	52	50	48	47
Buckeye, Yellow	70	0	0	0	0	0	0	4	4
Buckthorn	20	22	34	27	23	21	14	12	11
Butternut	30	0	5	4	3	3	3	7	6
Catalpa	50	215	186	190	190	193	191	227	241
Catalpa, Purple Hybrid	50	0	0	0	0	0	0	4	13
Cherry, Black	50	188	168	135	103	64	41	32	23
Cherry spp.	30	13	33	27	18	12	19	20	18
Coffeetree, Kentucky	70	387	390	407	416	425	455	503	517
Corktree, Amur	40	13	13	14	13	13	13	13	12
Crabapple	70	629	779	989	1023	1042	1049	968	893
Dogwood, Corneliancherry	80	1	1	1	0	0	0	17	17
Douglasfir	80	6	17	10	8	8	8	8	6
Elm, American	30	665	604	509	405	278	215	223	236
Elm, Hybrid	70	29	32	44	98	167	265	375	425
Elm, Red	20	16	16	12	9	4	4	4	2
Elm, Siberian	40	301	256	265	239	202	171	156	134
Filbert, Turkish	80	1	0	0	15	17	20	16	13
Fir, White	80	0	0	1	0	0	0	0	0
Ginkgo	70	438	439	432	435	454	498	563	577
Hackberry, Common	80	842	904	927	938	949	976	1084	1096
Hackberry, Sugar	30	74	69	69	69	67	67	66	66
Hawthorn, Cockspur	80	47	59	59	59	71	74	76	71
Hawthorn, Downy	50	57	43	34	29	23	20	14	7
Hawthorn, English	40	6	1	1	1	0	0	0	0
Hawthorn, Green	70	0	0	4	5	4	2	2	2
Hawthorn, Washington	50	25	7	27	24	23	17	13	13
Hickory, Bitternut	70	0	4	3	2	2	2	2	2
Hickory, Shagbark	70	10	11	10	10	9	9	8	8
Honeylocust	70	2634	2750	2827	2845	2854	2819	2876	2870
Hornbeam, American	70	0	0	8	6	2	7	13	12
Hornbeam, European	70	0	0	0	0	0	4	4	6

TABLE 2.13 Parkway Tree Inventory Comparison 1994, 1998, 2002, 2006, 2010, 2014, 2018 plus 2020

TREE SPECIES	TREE SPECIES RATING*	1994	1998	2002	2006	2010	2014	2018	2020
Horsechestnut	60	36	40	38	29	26	23	23	20
Horsechestnut, Red	70	0	0	0	5	11	26	24	24
Ironwood	80	6	9	22	13	10	7	4	10
Juniper spp. (upright)	60	35	54	47	40	37	39	38	37
Katsuratree	60	8	6	6	6	6	7	7	6
Larch, American	50	0	5	5	4	3	2	2	2
Larch, European	50	1	0	0	0	0	0	0	0
Lilac Tree	70	1	15	29	66	109	170	268	322
Linden, American	70	1118	1143	1191	1188	1192	1203	1244	1246
Linden, Littleleaf	70	790	785	830	878	942	919	905	869
Linden, Silver	70	34	20	21	33	55	82	122	140
Locust, Black	40	115	108	99	80	71	71	74	79
Magnolia, Loebneri	60	0	0	2	2	2	3	3	3
Magnolia, Saucer	60	4	20	18	17	16	17	18	16
Magnolia, Star	50	0	1	0	0	0	0	0	0
Maple, Amur	70	6	2	3	3	3	3	3	3
Maple, Black	80	6	42	36	34	42	36	32	29
Maple, Boxelder	20	149	108	98	67	45	31	23	15
Maple, Freeman	70	12	89	219	341	539	774	1006	1074
Maple, Hedge	60	64	71	81	84	84	84	74	69
Maple, Miyabe	80	0	0	18	49	92	151	231	247
Maple, Norway	40	2248	2254	2173	2098	2023	1927	1823	1660
Maple, Paperbark	70	3	2	2	1	1	2	2	2
Maple, Red	65	330	327	316	314	318	315	485	538
Maple, Silver	45	2353	2253	2216	2147	2033	1950	1882	1776
Maple, Sugar	80	770	662	658	723	795	865	870	801
Maple, Tatarian	70	0	0	0	0	0	2	3	3
Maple, Trident	70	0	0	0	0	0	1	1	0
Maple, Truncatum	70	3	2	2	2	13	12	12	11
Mountainash, European	20	12	10	6	5	3	2	1	1
Mulberry, White	40	105	77	63	63	46	42	43	37
Oak, Bur	90	422	445	463	472	485	502	538	543
Oak, Chinkapin	80	5	3	37	27	29	101	172	187
Oak, English	60	60	97	96	94	102	96	84	70
Oak, English-Bur Hybrid	75	0	0	0	0	0	0	5	12
Oak, English-Swamp White Hybrid	75	0	0	0	0	0	9	42	56
Oak, English-White Hybrid	75	0	0	0	0	0	0	4	4
Oak, Hills	70	0	7	11	10	6	4	2	2
Oak, Hills-Black Hybrid	70	12	14	12	12	12	12	11	10
Oak, Hybrid Scarlet Letter	70	0	0	0	0	0	0	0	7
Oak, Pin	60	144	112	110	104	95	100	96	91
Oak, Red	70	135	138	144	154	166	219	261	263
Oak, Sawtooth	60	0	1	1	1	1	10	10	11
Oak, Shingle	70	37	40	58	72	78	117	172	185
Oak, Shumard	60	0	2	2	2	2	2	2	2

TABLE 2.13 Parkway Tree Inventory Comparison 1994, 1998, 2002, 2006, 2010, 2014, 2018 plus 2020

TREE SPECIES	TREE SPECIES RATING*	1994	1998	2002	2006	2010	2014	2018	2020
Oak, Swamp White	80	465	526	580	615	648	726	799	823
Oak, White	90	98	92	101	95	86	76	72	66
Osage Orange	20	6	17	16	17	20	20	19	18
Peach	30	4	5	2	1	1	1	0	0
Pear	30	576	657	748	769	804	824	902	862
Pecan	60	3	5	5	5	6	5	7	7
Pine, Austrian	40	48	60	57	46	41	42	32	24
Pine, Jack	40	4	4	3	2	2	2	2	2
Pine, Mugo	50	4	3	1	1	1	2	2	1
Pine, Red	50	5	11	16	12	8	6	6	6
Pine, Scotch	40	54	57	49	37	30	20	18	17
Pine, White	70	60	85	78	64	49	44	44	42
Planetree, London	60	37	44	43	47	51	74	128	134
Plum	40	4	1	1	1	1	1	0	0
Poplar, Bigtooth Aspen	50	1	1	1	1	1	1	1	1
Poplar, Cottonwood	30	121	104	93	86	74	70	64	56
Poplar, Hybrid	50	4	5	4	3	2	0	0	0
Poplar, Quaking Aspen	50	0	0	0	0	0	0	5	4
Poplar, White	30	27	22	17	17	8	9	8	3
Redbud	60	15	16	15	14	14	14	15	15
Redwood, Dawn	60	0	0	0	2	2	3	15	19
Russian Olive	20	10	10	5	3	1	2	2	1
Serviceberry spp.	70	27	30	39	36	36	40	43	45
Smoketree spp.	60	1	1	1	0	0	0	0	0
Sourgum Black Tupelo	70	0	0	1	0	3	3	8	9
Spruce, Black	70	0	47	42	37	27	21	20	14
Spruce, Colorado	70	331	368	360	324	293	267	240	168
Spruce, Norway	70	10	86	77	70	70	81	75	64
Spruce, White	70	0	28	25	22	21	17	14	13
Sweetgum	60	6	6	10	9	9	12	32	38
Sycamore	50	103	97	98	95	94	93	92	90
Tree of Heaven	20	10	13	12	10	8	5	3	3
Tuliptree	60	89	86	87	98	104	122	173	187
Walnut, Black	50	96	95	97	88	85	85	86	78
Walnut, English	30	2	2	2	2	2	2	2	1
Willow, Corkscrew	20	2	3	1	0	0	0	0	0
Willow, Weeping	20	12	3	3	1	0	0	0	0
Yellowwood	60	0	0	0	0	0	0	0	2
Zelkova	50	0	0	0	0	0	0	0	1
TOTAL		22320	23101	23842	23760	23514	23272	23005	22572

\* - Tree Species Ratings based on the rating system used in the 9th Edition of the *Guide for Plant Appraisal* and have been revised and updated as of January 2020

Table 2.14 - Quantity and Percentage of Parkway Trees By Species Ratings - Changes from 1994 to 2018 in 4 year increments plus May 2020

TREE SPECIES RATING*	Aug 1994 Quantity	%	May 1998 Quantity	%	May 2002 Quantity	%	May 2006 Quantity	%	May 2010 Quantity	%	May 2014 Quantity	%
80 to 90	2685	12.03%	2803	12.13%	2962	12.42%	3113	13.10%	3310	14.08%	3648	15.68%
60 to 75	8366	37.48%	9358	40.51%	10136	42.51%	10433	43.91%	10818	46.01%	11361	48.82%
40 to 50	9515	42.63%	9195	39.80%	9069	38.04%	8686	36.56%	8017	34.09%	6959	29.90%
20 to 30	1754	7.86%	1745	7.55%	1675	7.03%	1528	6.43%	1369	5.82%	1304	5.60%
Total	22320		23101		23842		23760		23514		23272	

TREE SPECIES RATING*	May 2018 Quantity	%	May 2020 Quantity	%
80 to 90	4076	17.72%	4071	18.04%
60 to 75	12240	53.21%	12294	54.47%
40 to 50	5323	23.14%	4899	21.70%
20 to 30	1366	5.94%	1308	5.79%
Total	23005		22572	

\* - Tree Species Ratings based on the rating system used in the 9th Edition of the Guide for Plant Appraisal and have been revised and updated as of January 2020

Table 2.15 Trees by Right-of-Way Jurisdiction

Location	Number	% of Total
Village	22007	97.50
Dupage County	476	2.11
Illinois State Dept. of Transportation	89	0.39
Total parkway trees	22572	100.00

Table 2.16 Trees under or near overhead utility wires

Location	Number	% of Total
Parkway trees under ComEd - crown extends to both sides	60	0.27
Parkway trees under ComEd - crown extends to one side	64	0.28
Parkway trees offset or one-sided away from ComEd	179	0.79
Parkway trees with crowns up and over ComEd	61	0.27
Parkway trees - wrong species under ComEd but not pruned yet	205	0.91
Parkway trees which are the appropriate species under ComEd	1041	4.61
Parkway trees with street light or cable - no pruning for wires	347	1.54
Total parkway trees	1957	8.67
Wooded parkways with ComEd	48	16.78
Jointly owned trees with ComEd	21	27.63
Village property trees with ComEd	17	3.28

Table 2.17 Tree Location

Location	Number	Percent
Trees in parkways with sidewalks	19316	85.58
Trees in parkways without sidewalks	2467	10.93
Trees behind sidewalks	541	2.40
Trees in islands	92	0.41
Trees in medians	156	0.69
Total	22572	100.00
Wooded parkways with sidewalks	36	12.59
Wooded parkways without sidewalks	208	72.73
Wooded parkways behind sidewalks	42	14.69
Total	286	100.00
Jointly owned with sidewalks	2	5.71
Jointly owned trees - no sidewalk	39	51.32
Jointly owned trees behind sidewalks	35	46.05
Total	76	100.00

Table 2.18 - Typical Tree Ages

<u>Tree Species</u>	<u>Diameter</u>					
	<u>5"</u>	<u>10"</u>	<u>15"</u>	<u>20"</u>	<u>25"</u>	<u>30"</u>
Green Ash	6	24	40	58	82	110
American Elm	15	25	35	47	61	72
Honeylocust	15	29	44	62	80	90
Boxelder Maple	10	25	38	55	66	-
Norway Maple	13	27	45	68	80	-
Silver Maple	10	20	25	42	67	90
Sugar Maple	19	35	52	70	88	107
Oaks, Bur Pin Red & White	10	30	62	100	130	150

**Table 2.19 - Estimated tree diameter at 30 years**

Results courtesy John F. Dwyer and The Morton Arboretum  
 Downers Grove tree inventory data evaluated January 2009

**In Order By Diameter**

<b>Tree Species</b>	<b>Diameter at Age 30</b>
Elm, Hybrid	27.4
Oak, English	23.1
Catalpa	21.1
Planetree, London	18.3
Ash, White	18.1
Oak, Hill's	17.3
Pear	16.8
Ash, Green	16.4
Linden, Littleleaf	16.2
Oak, Pin	16.2
Linden, American	16.2
Linden, Silver	16.0
Tuliptree	15.8
Hackberry	15.6
Maple, Freeman	15.3
Birch, River	15.3
Baldcypress	15.2
All Trees	15.0
Honeylocust	15.0
Oak, Shingle	14.5
Walnut, Black	14.3
Coffeetree, Kentucky	14.3
Oak, Swamp White	14.2
Oak, Red	14.1
Oak, Bur	14.1
Maple, Norway	14.0
Maple, Hedge	13.2
Maple, Sugar	12.6
Crabapple	11.2
Maple, Miyabe	11.2
Maple, Red	11.0
Oak, Chinkapin	11.0
Ginkgo	10.7
Buckeye, Ohio	10.5
Lilac	7.9
Hawthorn	6.5
Serviceberry	4.8

**In Order By Species**

<b>Tree Species</b>	<b>Diameter at Age 30</b>
All Trees	15.0
Ash, Green	16.4
Ash, White	18.1
Baldcypress	15.2
Birch, River	15.3
Buckeye, Ohio	10.5
Catalpa	21.1
Coffeetree, Kentucky	14.3
Crabapple	11.2
Elm, Hybrid	27.4
Ginkgo	10.7
Hackberry	15.6
Hawthorn	6.5
Honeylocust	15.0
Lilac	7.9
Linden, American	16.2
Linden, Littleleaf	16.2
Linden, Silver	16.0
Maple, Freeman	15.3
Maple, Hedge	13.2
Maple, Miyabe	11.2
Maple, Norway	14.0
Maple, Red	11.0
Maple, Sugar	12.6
Oak, Bur	14.1
Oak, Chinkapin	11.0
Oak, English	23.1
Oak, Hill's	17.3
Oak, Pin	16.2
Oak, Red	14.1
Oak, Shingle	14.5
Oak, Swamp White	14.2
Pear	16.8
Planetree, London	18.3
Serviceberry	4.8
Tuliptree	15.8
Walnut, Black	14.3

Table 2.20

Weight of Green Logs using the weights in ANSI Z133.1 - 2017  
(see pages 62-63 in the standard)

	Weight in lbs for the following Log Diameters						
	12"	14"	16"	18"	20"	22"	24"
White ash 1 ft section	38	51	67	85	104	126	150
White ash 20 ft trunk	760	1020	1340	1700	2080	2520	3000
Basswood Linden 1 ft section	33	45	59	74	92	111	132
Basswood Linden 20 ft trunk	660	900	1180	1480	1840	2220	2640
Black cherry 1 ft section	35	48	63	79	98	119	141
Black cherry 20 ft trunk	700	960	1260	1580	1960	2380	2820
Cottonwood 1 ft section	38	52	68	86	107	129	154
Cottonwood 20 ft trunk	760	1040	1360	1720	2140	2580	3080
American elm 1 ft section	42	58	75	95	118	142	169
American elm 20 ft trunk	840	1160	1500	1900	2360	2840	3380
Hackberry 1 ft section	39	53	70	88	109	132	157
Hackberry 20 ft trunk	780	1060	1400	1760	2180	2640	3140
Honeylocust 1 ft section	48	65	85	108	133	161	192
Honeylocust 20 ft trunk	960	1300	1700	2160	2660	3220	3840
Silver maple 1 ft section	35	48	63	79	98	119	141
Silver maple 20 ft trunk	700	960	1260	1580	1960	2380	2820
Sugar maple 1 ft section	44	60	78	99	122	148	176
Sugar maple 20 ft trunk	880	1200	1560	1980	2440	2960	3520
Red oak 1 ft section	49	67	88	111	137	166	198
Red oak 20 ft trunk	980	1340	1760	2220	2740	3320	3960
White oak 1 ft section	48	66	86	109	135	163	194
White oak 20 ft trunk	960	1320	1720	2180	2700	3260	3880
Sycamore 1 ft section	41	55	72	92	113	137	163
Sycamore 20 ft trunk	820	1100	1440	1840	2260	2740	3260
Black walnut 1 ft section	45	62	81	102	126	153	182
Black walnut 20 ft trunk	900	1240	1620	2040	2520	3060	3640
White pine 1 ft section	28	38	50	64	78	95	113
White pine 20 ft trunk	560	760	1000	1280	1560	1900	2260
Spruce 1 ft section	27	36	47	60	74	90	106
Spruce 20 ft trunk	540	720	940	1200	1480	1800	2120

Table 2.21

**Tree Benefit Calculations using [www.treebenefits.com](http://www.treebenefits.com)**

\* zip code = 60515

as of Jan 21 2015

\* land use type = single family residential

	Benefits	Stormwater Runoff Reduction	Property Value Impact \$	Electrical Energy Savings	Carbon Reduction
Values for 5" Trees	each year	Gal		kwh	lbs
American Basswood	\$20	157	\$6	36	101
White Ash	\$32	213	\$16	40	142
Crabapple (broadleaf small)	\$14	90	\$3	28	91
Kentucky Coffeetree	\$33	220	\$18	36	148
Honeylocust	\$34	230	\$11	60	159
Littleleaf Linden	\$27	134	\$14	32	128
Norway Maple	\$35	210	\$16	46	184
Silver Maple	\$46	321	\$26	41	164
Bur Oak	\$33	220	\$18	36	148
Swamp White Oak	\$35	210	\$16	46	184
Pear (Callery)	\$35	210	\$16	46	184

	Benefits	Stormwater Runoff Reduction	Property Value Impact \$	Electrical Energy Savings	Carbon Reduction
Values for 10" Trees	each year	Gal		kwh	lbs
American Basswood	\$63	593	\$17	109	327
White Ash	\$95	788	\$42	122	429
Crabapple (broadleaf small)	\$44	331	\$9	92	286
Kentucky Coffeetree	\$86	751	\$34	118	437
Honeylocust	\$111	782	\$47	157	502
Littleleaf Linden	\$82	594	\$38	100	430
Norway Maple	\$86	723	\$31	127	454
Silver Maple	\$100	917	\$42	121	494
Bur Oak	\$86	751	\$34	118	437
Swamp White Oak	\$86	723	\$31	127	454
Pear (Callery)	\$86	723	\$31	127	454

	Benefits	Stormwater Runoff Reduction	Property Value Impact \$	Electrical Energy Savings	Carbon Reduction
Values for 15" Trees	each year	Gal		kwh	lbs
American Basswood	\$117	1189	\$31	215	656
White Ash	\$177	1663	\$69	268	921

Values for 15" Trees cont.

Crabapple (broadleaf small)	\$84	667	\$17	184	558
Kentucky Coffeetree	\$147	1466	\$50	234	817
Honeylocust	\$223	1557	\$111	278	922
Littleleaf Linden	\$145	1260	\$60	201	830
Norway Maple	\$141	1409	\$42	235	760
Silver Maple	\$168	1718	\$61	245	924
Bur Oak	\$147	1466	\$50	234	817
Swamp White Oak	\$141	1409	\$42	235	760
Pear (Callery)	\$141	1409	\$42	235	760

Values for 20" Trees	Benefits each year	Stormwater Runoff Reduction Gal	Property Value Impact \$	Electrical Energy Savings kwh	Carbon Reduction lbs
American Basswood	\$169	1975	\$48	237	908
White Ash	\$266	2965	\$103	302	1251
Crabapple (broadleaf small)	\$117	1089	\$29	197	740
Kentucky Coffeetree	\$197	2403	\$60	258	1016
Honeylocust	\$351	2680	\$194	302	1332
Littleleaf Linden	\$207	2182	\$83	222	1076
Norway Maple	\$181	2301	\$46	258	849
Silver Maple	\$231	2754	\$81	269	1234
Bur Oak	\$197	2403	\$60	258	1016
Swamp White Oak	\$181	2301	\$46	258	849
Pear (Callery)	\$181	2301	\$46	258	849

Values for 25" Trees	Benefits each year	Stormwater Runoff Reduction Gal	Property Value Impact \$	Electrical Energy Savings kwh	Carbon Reduction lbs
American Basswood	\$228	2901	\$67	281	1220
White Ash	\$359	4608	\$128	383	1730
Crabapple (broadleaf small)	\$100	1174	\$10	200	458
Kentucky Coffeetree	\$250	3492	\$68	307	1237
Honeylocust	\$561	4092	\$350	347	1828
Littleleaf Linden	\$275	3285	\$106	265	1386
Norway Maple	\$215	3336	\$38	302	846
Silver Maple	\$300	3935	\$102	317	1572
Bur Oak	\$250	3492	\$68	307	1237
Swamp White Oak	\$215	3336	\$38	302	846
Pear (Callery)	\$215	3336	\$38	302	846

**Table 2.22 - Trees in Areas to be Annexed in the Future**

<b>AREA (Approximate boundaries)</b>	<b># ADDRESSES</b>	<b>INDIVIDUAL TREES</b>	<b>PARKWAYS WITH WOODED THICK TREE STANDS</b>
36th to 39th, Glendenning to Cumnor	232	272	39
Howard to Maple, Belmont to Stonewall	107	108	1
Inverness to Maple, Katrine to Janes	64	60	18
Maple to 59th, Walnut to Belmont	200	189	38
Maple to 63rd, Belmont to Springside	586	652	17
<b>Total</b>	<b>1189</b>	<b>1281</b>	<b>113</b>

Total Parkway Tree Inventory May 2020 = 22572  
 Potential increase with annexations = 5.6%

Windshield surveys were conducted January 2013



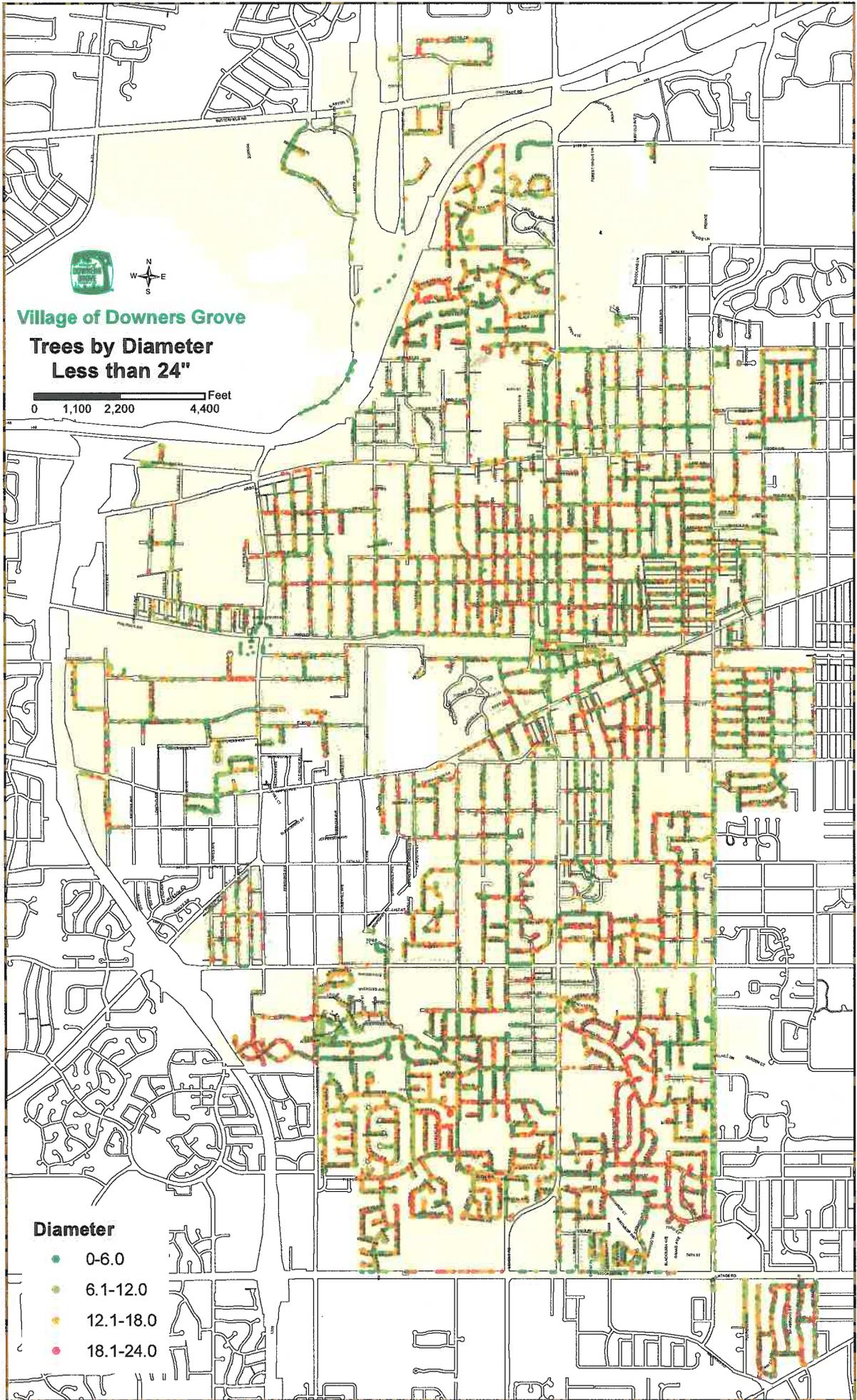
**Village of Downers Grove**

**11 Most Common Tree Genera**



**Legend**

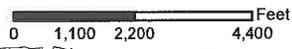
- ASH
- COFFEETREE
- CRABAPPLE
- ELM
- GINKGO
- HACKBERRY
- HONEYLOCUST
- LINDEN
- MAPLE
- OAK
- PEAR





### Village of Downers Grove

### Trees by Diameter Greater than 24"



Diameter (in inches)	
●	24.1-30.0
●	30.1-36.0
●	36.1-42.0
●	42.1-48.0
●	48.1-54.0
●	54.1-60.0
●	66.1-72.0
●	78.1-84.0

