West Chicago Park District
Committee of the Whole

October 2, 2018
ARC Center
6:00 p.m.

MINUTES

I. Call to Order – Commissioners Bass, Gunderson, Lenertz, Pavlica and Voelz were present.

II. Pledge of Allegiance – President Lenertz

III. Public Participation - None

IV. Tree Inventory – Phil Graf, Owner of Graf Tree Care reviewed the following with the Board (Exhibit A):

- Tree inventory data
- Project deliverables
- Benefits of trees
- Statistics
- Taxonomic diversity
- Analysis of condition, size (age) class, maintenance status
- Recommended goals
- Challenges

V. Parks Department – Superintendent Gasparini briefly spoke to the board regarding Graf Tree report and upcoming solar energy steps.

VI. Miscellaneous

A. Resolution 18-06 for Solar Energy – Superintendent Gasparini and Director Major reviewed with the Board.

VII. Executive Session - None

VIII. Adjournment – Meeting adjourned at 7:18 p.m.

EXHIBIT A

WEST CHICAGO PARK DISTRICT

TREE INVENTORY

Urban Forestry Professionals Since 1999

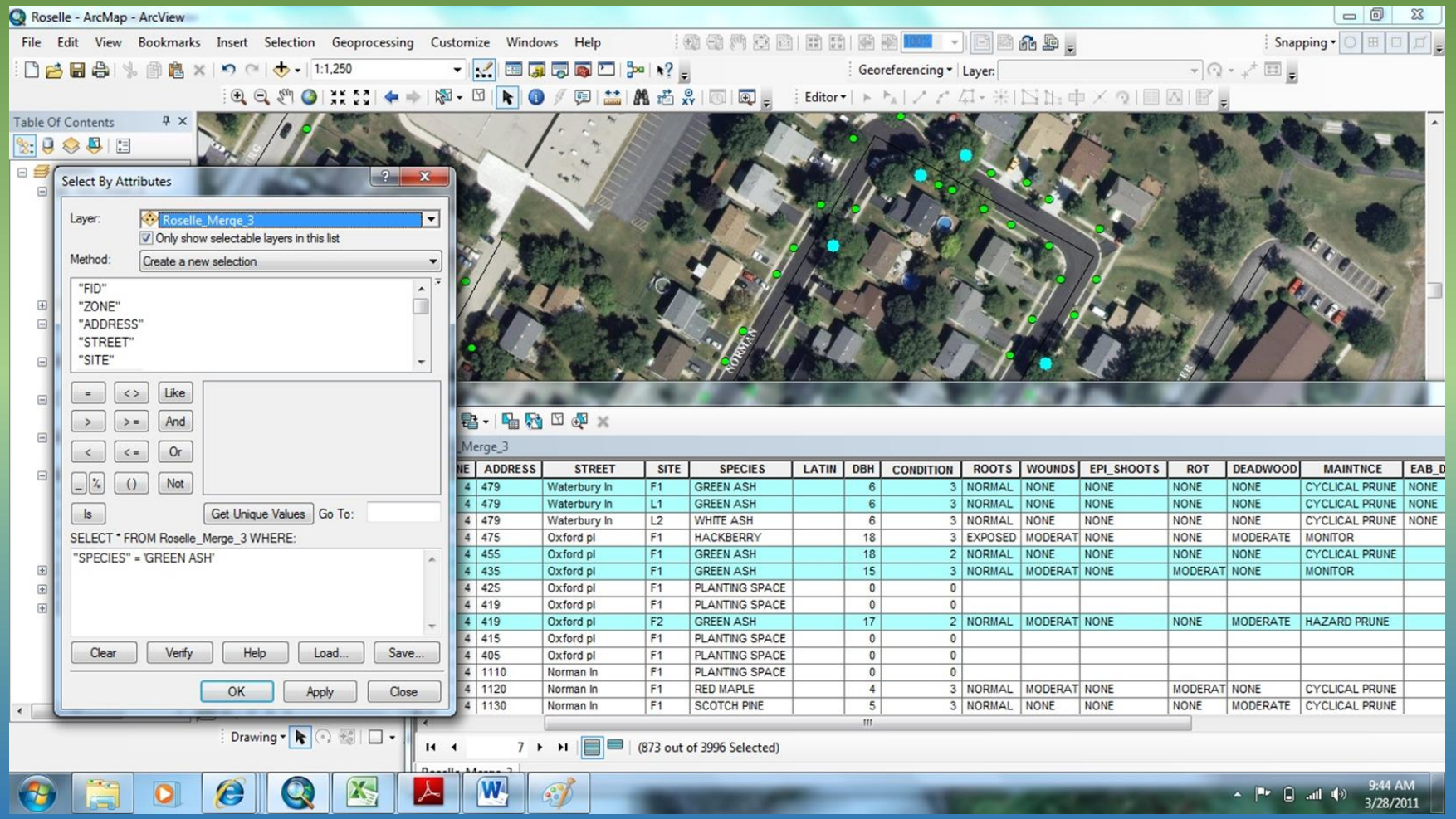
(630) 762-2400 www.graftreecare.com

Graf Tree Care, Inc.
1485 Louis Bork Drive, Unit 113 Batavia, IL 60510
www.graftreecare.com (630) 762-2400

CERTIFIED ARBORIST ISA

MUNICIPAL SPECIALIST ISA

Original Tree Inventory Data captured in May 2009. Rather than update the data, we started the process over from scratch in August 2018. Data was collected and placed into a Geographic Information System (GIS) environment, and is being used to efficiently manage your urban forest.



Data was collected on:

- GPS location
- Species
- Size (DBH, Height, Canopy spread)
- Condition (1-5)
- Standard Defects
- Maintenance Recommendation

PROJECT DELIVERABLES

- GIS Data – Geodatabase or Shapefile for use with GIS software such as ArcMap or QGIS
- Tree Inventory Report – Charts, statistics, diversity analysis, (Digital+Hardcopy)
- Microsoft Excel Data Tables – Of all trees within every park
- Google Earth KML File – For non-GIS users, can display interactive tree map viewable in Google Earth
- iTree Report
- 3D Tree Map for use in ArcGIS Pro

Benefits of Urban Trees

Clean Air

Reduces Energy Costs

Shade

Windbreaks

Benefits of Trees

Stormwater Mitigation

Aesthetics: Property Value & Image

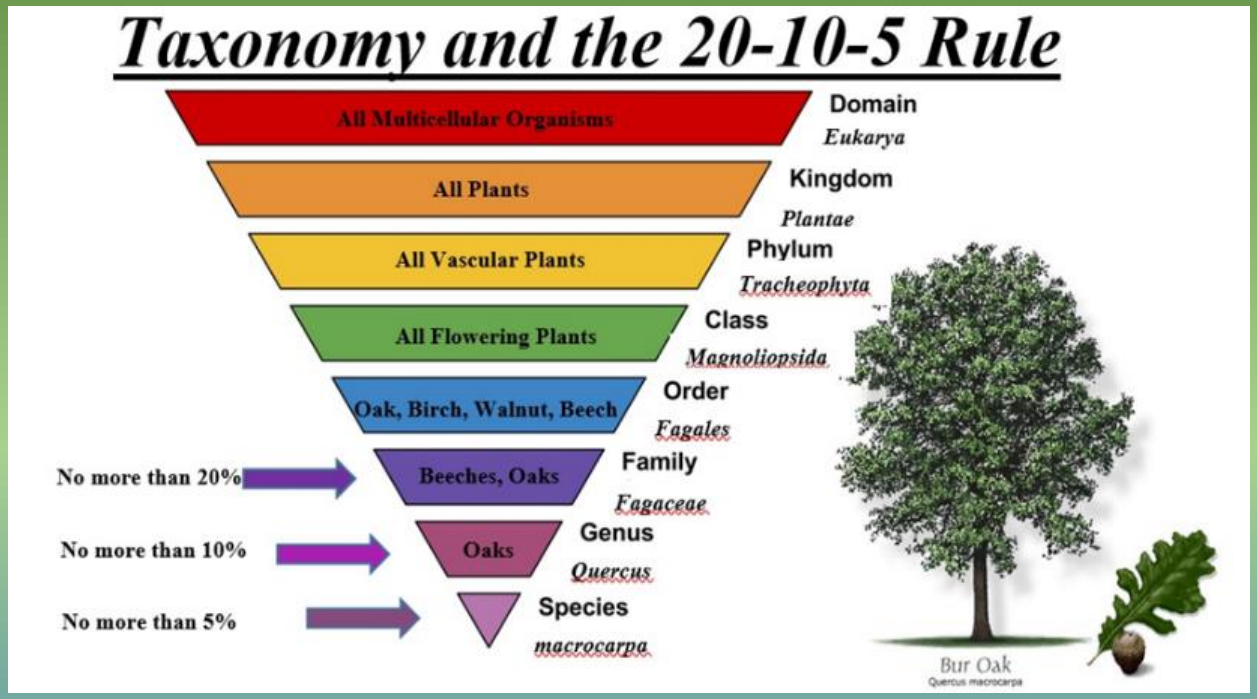
BASIC STATISTICS

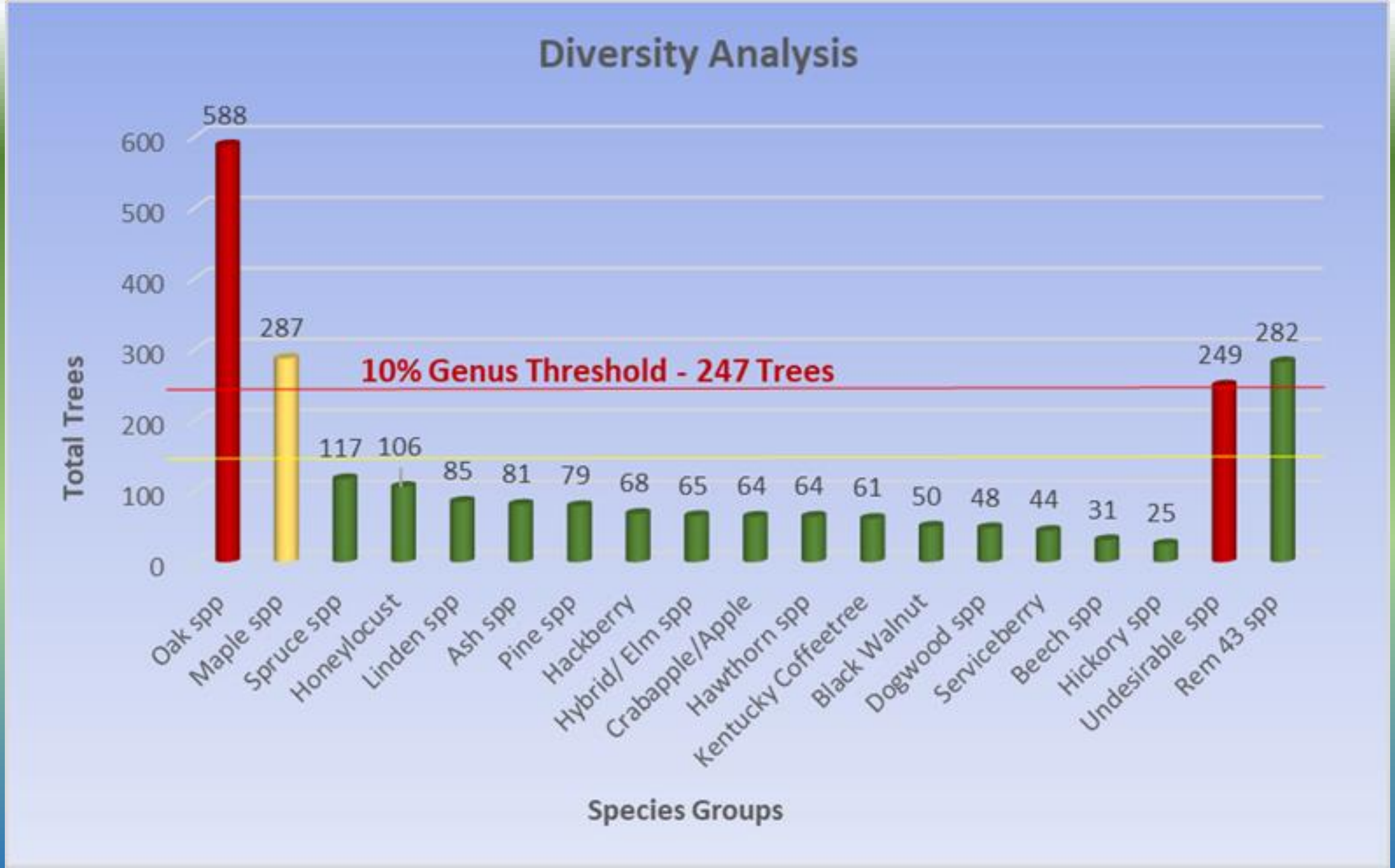
Total Number of Trees	2,394
Total Number of Stumps	77
Total Number of Species	106
Total Diameter Inches	31,976"
Average Tree Diameter	13.36"
Average Tree Height	26.80'
Average Tree Crown Spread	19.58'
Average Tree Condition	3.16 (Below Average)

The Importance of Taxonomic Diversity

To be in compliance with the "20-10-5" rule by 2040

Tree species diversity is important for the long-term health of the urban forest, and the benefits it provides to residents. Today's Arboricultural Best Management Practices set the ideal composition of the urban forest as not exceeding any more than 20 percent of one taxonomic family, 10 percent of one genus, and 5 percent of one species (see graphic).




Diversity Analysis
Total Trees
600
500
400
300
200
100
0
588
287
117
106
85
81
79
68
65
64
64
61
50
48
44
31
25
249
282
10% Genus Threshold - 247 Trees
Oak spp
Maple spp
Spruce spp
Honeylocust
Linden spp
Ash spp
Pine spp
Hackberry
Hybrid/ Elm spp
Crabapple/Apple
Hawthorn spp
Kentucky Coffeetree
Black Walnut
Dogwood spp
Serviceberry
Beech spp
Hickory spp
Undesirable spp
Rem 43 spp
Species Groups

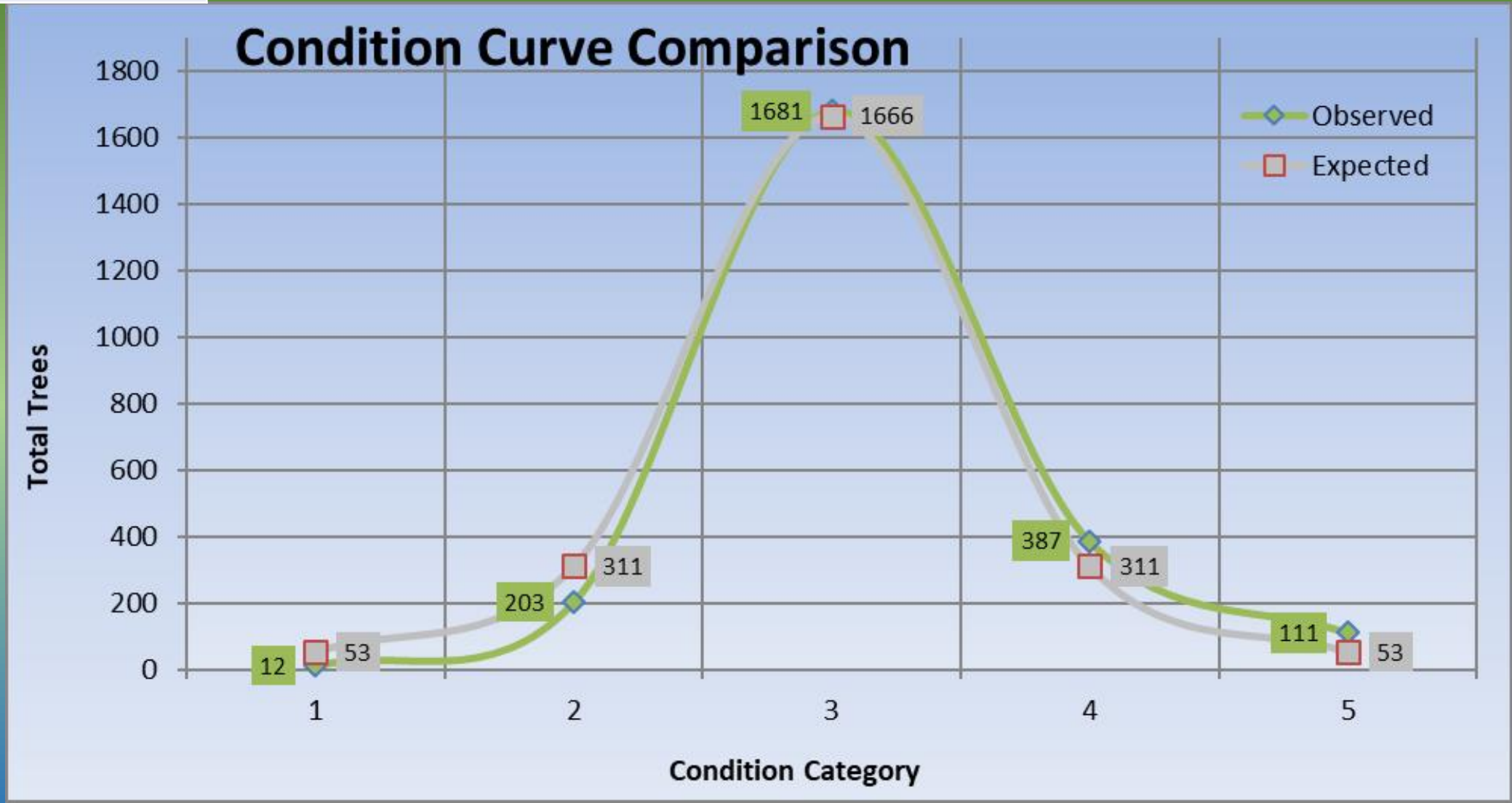
SPECIES	COUNT
OAK-BURR	280
OAK-WHITE	143
HONEYLOCUST	106
MAPLE-NORWAY	96
SPRUCE-SPP	69
HACKBERRY	68
HAWTHORN-SPP	64
OAK-RED	62
KENTUCKY COFFEETREE	61
APPLE-CRAB SPP	60
PINE-WHITE	58
MULBERRY-SPP	57
OAK-SWAMP WHITE	52
ASH-GREEN	51
WALNUT-BLACK	50
MAPLE-RED	48

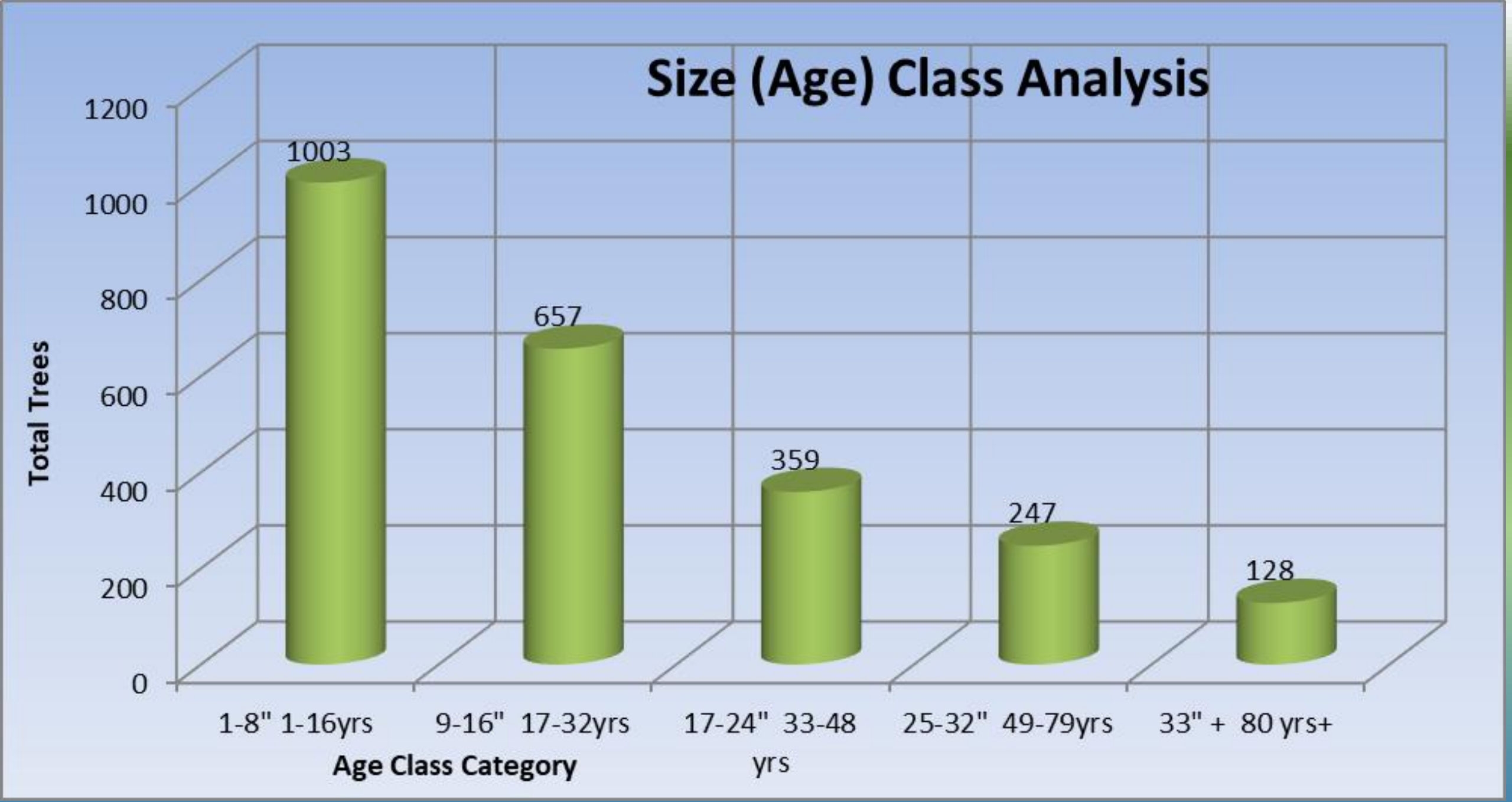
SPECIES	COUNT
DOGWOOD-CORNELIAN	48
MAPLE-SUGAR	47
ELM-AMERICAN	45
COTTONWOOD	45
SERVICEBERRY-SPP	44
LINDEN-AMERICAN	44
MAPLE-AUTUMN BLAZE	41
CHERRY-BLACK	40
MAPLE-SILVER	39
SPRUCE-BLUE	38
LINDEN-LITTLELEAF	35
OAK-CHINKQUAPIN	29
ASH-WHITE	28
ELM-SIBERIAN	27
BEECH-AMERICAN	23
HICKORY-SHAGBARK	22

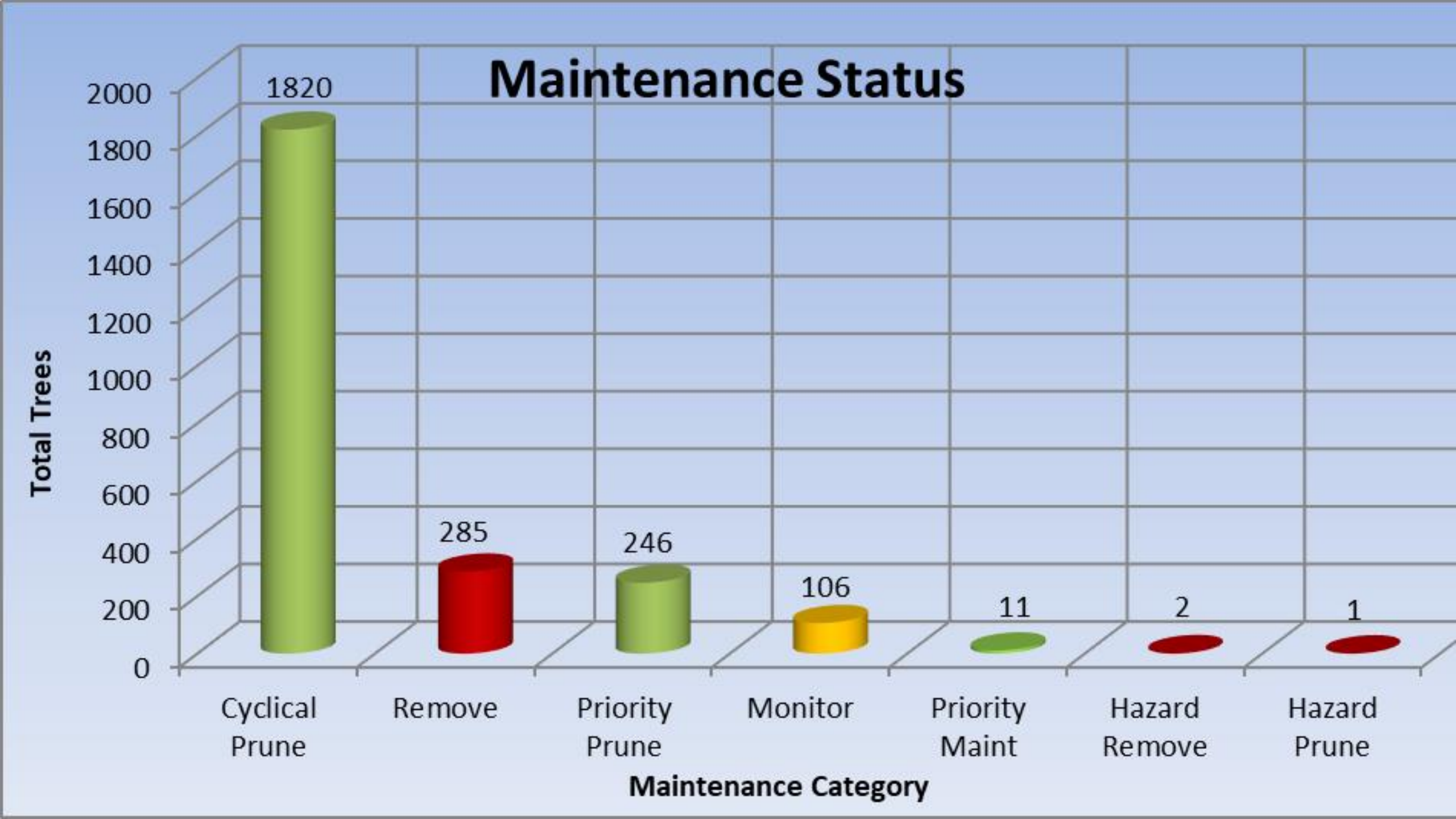
Amazing Ash trees at Reed Keppler Park

More Amazing Ash trees…

1	Specimen Tree – no defects
2	Good Condition
3	Average Condition
4	Poor Condition
5	Dead or nearly so




Size (Age) Class Analysis
Total Trees
1200
1000
800
600
400
200
0
1003
657
359
247
128
1-8" 1-16yrs
9-16" 17-32yrs
17-24" 33-48 yrs
25-32" 49-79yrs
33" + 80 yrs+
Age Class Category


Maintenance Status
Total Trees
2000
1800
1600
1400
1200
1000
800
600
400
200
0
1820
285
246
106
11
2
1
Cyclical Prune
Remove
Priority Prune
Monitor
Priority Maint
Hazard Remove
Hazard Prune
Maintenance Category

RECCOMENDED GOALS

Goals

1. Remove all 287 trees from the Parks that were identified as being dead, declining, or potential high risk trees, along with 77 stumps within the next 18 months. (By April 2020)
2. Prune all trees 247 trees in the Parks that were recoreded as “Priority Prune” within the next 24 months. (By Sepetember 2020)
3. Begin a cyclical pruning program beginning in 2021, to prune all trees in a five year cycle.
4. Mulch all trees 12” DBH and smaller in the managed areas of the Parks.
5. Begin a water management program for all trees 4” DBH and smaller, or planted within the last 3 years.
6. Continue planting trees to replace trees when they are removed. Not on a one-to-one basis, but only when appropriate planting spaces are vacated.
7. Actively seek opportunities for grant funding for tree planting, natural areas mangament, and invasive species control
8. Use ArcGIS or other tree management software to keep the tree inventory data updated and current at all times.
9. Create a Tree Risk Management Policy, and a program for evaluating trees for potential risk

CHALLENGES WE FACE

1. Removing and pruning large amount of trees in a short amount of time.
2. An aging Oak tree population in Reed Keppler Park
3. Reforestation of canopy in Reed Keppler Park
4. Invasive species in unmanaged areas

QUESTIONS????

WEST CHICAGO PARK DISTRICT

RESOLUTION NUMBER R18-06

A RESOLUTION OF THE WEST CHICAGO PARK DISTRICTS COMMITMENT TO ENERGY SAVINGS PROGRAM

WHEREAS, greater utilization of renewable energy improves air quality and water quality, reduces emissions that harm public health, reduces dependence on foreign sources of energy and creates jobs; and

WHEREAS, climate change fueled by increasing global warming pollutants in the atmosphere increases the frequency and severity of extreme weather events, including hurricanes, heatwaves, droughts and associated wildfires and will inundate coastal communities through rising sea levels; and

WHEREAS, there are many opportunities to save West Chicago Park District taxpayers money by improving the energy efficiency; and

WHEREAS, renewable energy resources options are increasingly abundant and affordable.

WHEREAS, the West Chicago Park District has selected Trane as its provider for an energy savings program to provide substantial long-term cost savings with on-site solar photovoltaics ("Program"), using the US Communities Cooperative Purchasing Program.

NOW THEREFORE, BE IT RESOLVED BY THE BOARD OF PARK COMMISSIONERS OF THE WEST CHICAGO PARKS DISTRICT, COUNTY OF DUPAGE, STATE OF ILLINOIS, as follows:

With assistance from the District, Trane will proceed with Program development services necessary to secure federal and state incentives to make the program financially viable for the District.

Trane and the District will negotiate an Energy Savings Agreement for all Program services, including the cost of the Program development services, subject to best pricing as offered under the US Communities Cooperative Purchasing Program.

Trane and the District will work collaboratively to ensure Program goals are met as per the "letter of commitment to develop energy savings program" that is attached to this Resolution as Exhibit A.

PASSED THIS 9TH DAY OF OCTOBER, 2018

AYES: _____

NAYS: _____

APPROVED THIS 9TH DAY OF OCTOBER, 2018

_____

Frank P. Lenertz, President
Board of Park Commissioners

ATTEST:

_____

Melissa L. Medeiros, Secretary
Board of Park Commissioners