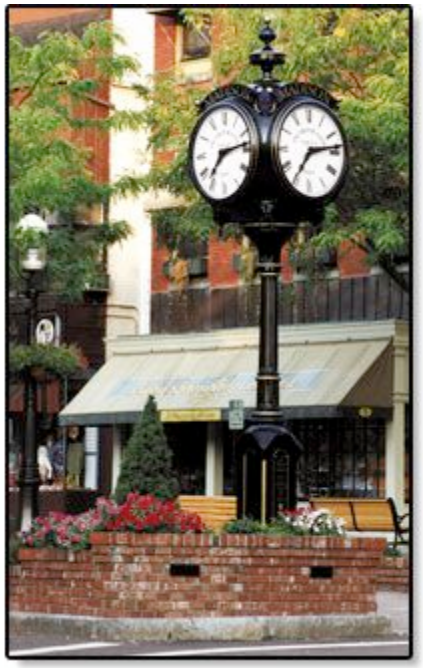
Borough of Madison

Summary Statistics for the Tree Inventory



Presented by Jeff Melin

State of the Trees

ArborPro would like to provide a summary including:

- Size and Condition Summary
- Tree Assessment Numbers by Species
- Planting Sites and Reforestation
- Trends

Assessments Performed

Scott Watkins – Board Certified Master Arborist

Scott has performed technical tree assessments for over 15 years

He is one of only 200 Board Certified Master Arborists world-wide

The Board Certified Arborist designation is set aside to leaders in the field of Arboriculture.

His team performed all of the assessments for the Borough of Madison tree inventory

Tree Management Data Collected

Components

- GPS Tree Site and Inventory Information
- Hazardous Condition Evaluation
- Maintenance Recommendations
- Graphs and Maps
- GIS Layering
- Next Step -Street Tree Master Plan?

GPS Technology

GPS Equipment

Trimble ProXRS Satellite Receiver

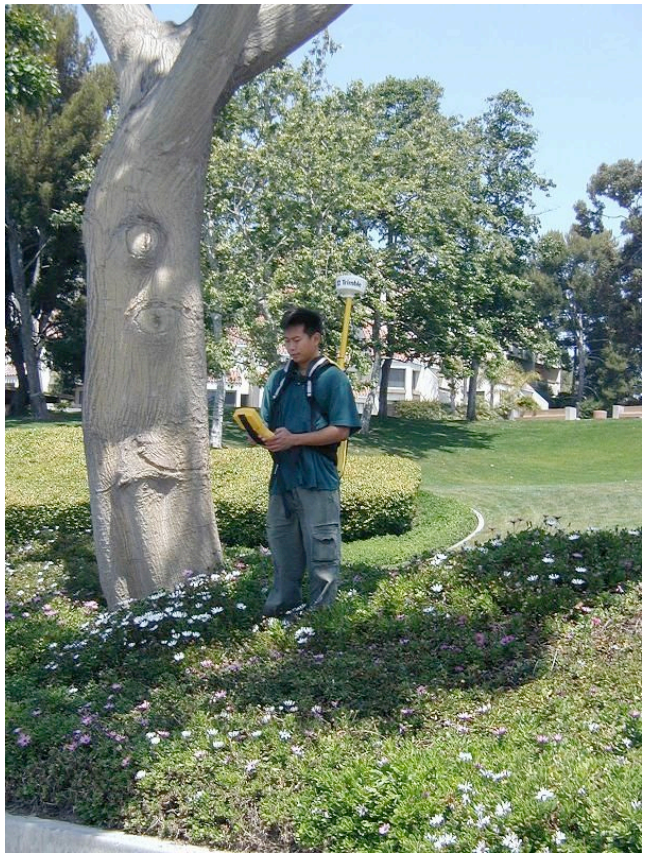
Satellite Receiver records precise Positional Data (Longitude and Latitude). Accuracy is set at sub-meter or better.

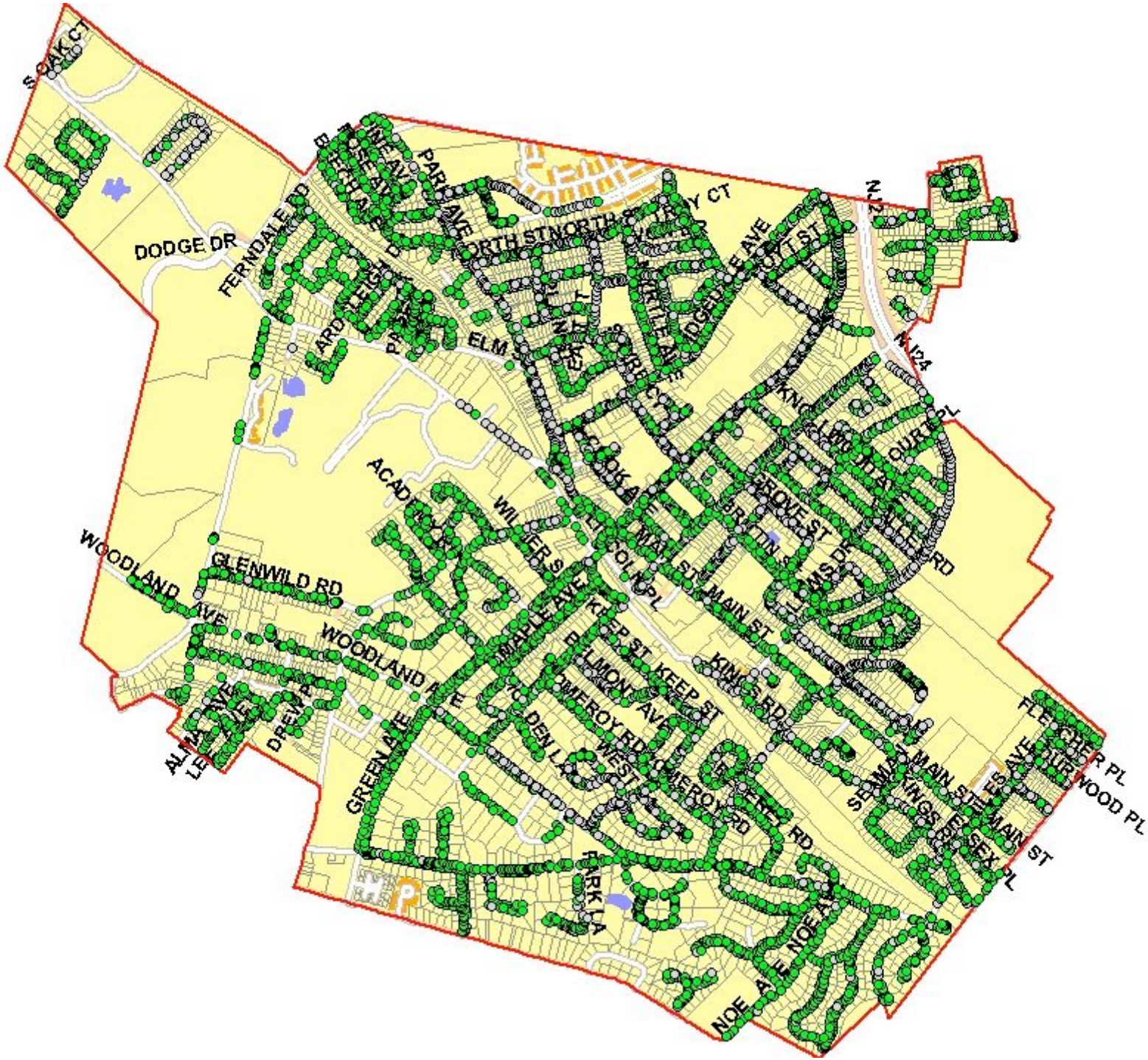
Handheld Computer

Records Tree Attribute Data

Laser Range Finder

Offset Tree up to 500 feet.



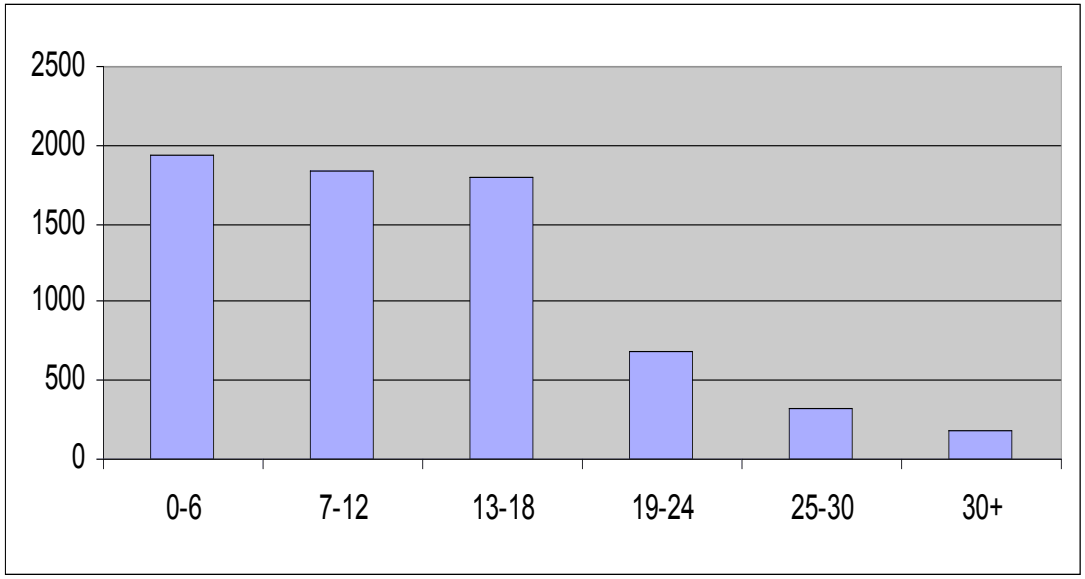


S OAK CT
DODGE DR
FERNDALE RD
PARK AVE
NORTH ST
ELM
N J24
GROVE ST
MAIN ST
WOODLAND AVE
GLENWILD RD
WOODLAND AVE
MAPLE AVE
KEEP ST
BELMONT AVE
GREEN AVE
FARK LA
NOE AVE
FLETCHER PL

Tree Inventory Statistics

Diameter at Breast Height

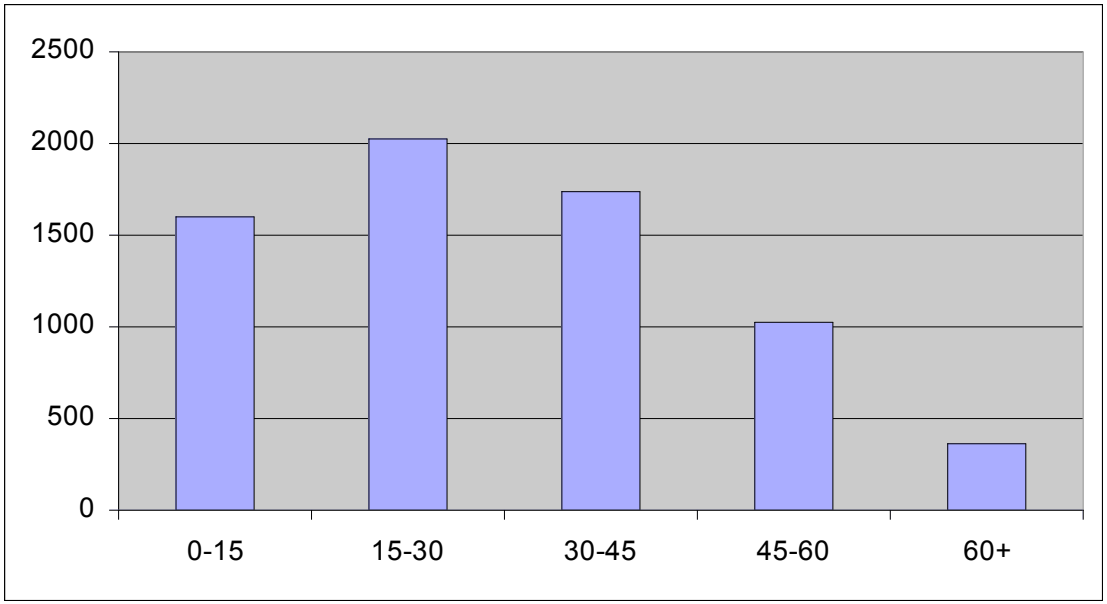
Diameter	Count
0-6	1942
7-12	1825
13-18	1788
19-24	689
25-30	325
30+	179



Tree Inventory Statistics

Height Ranges

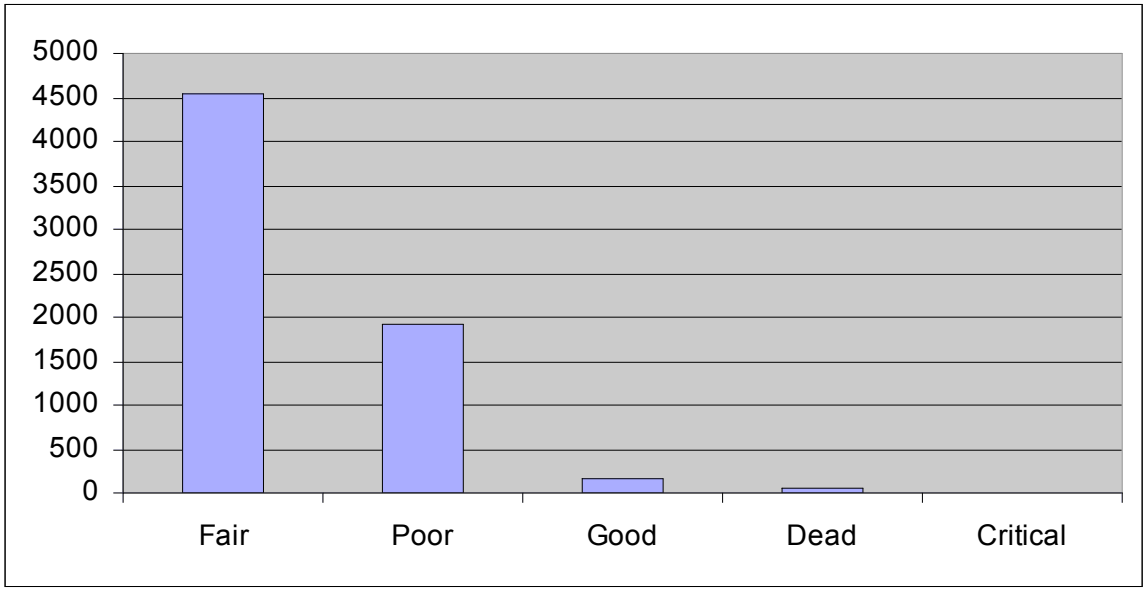
Height	Count
0-15	1606
15-30	2028
30-45	1736
45-60	1019
60+	359

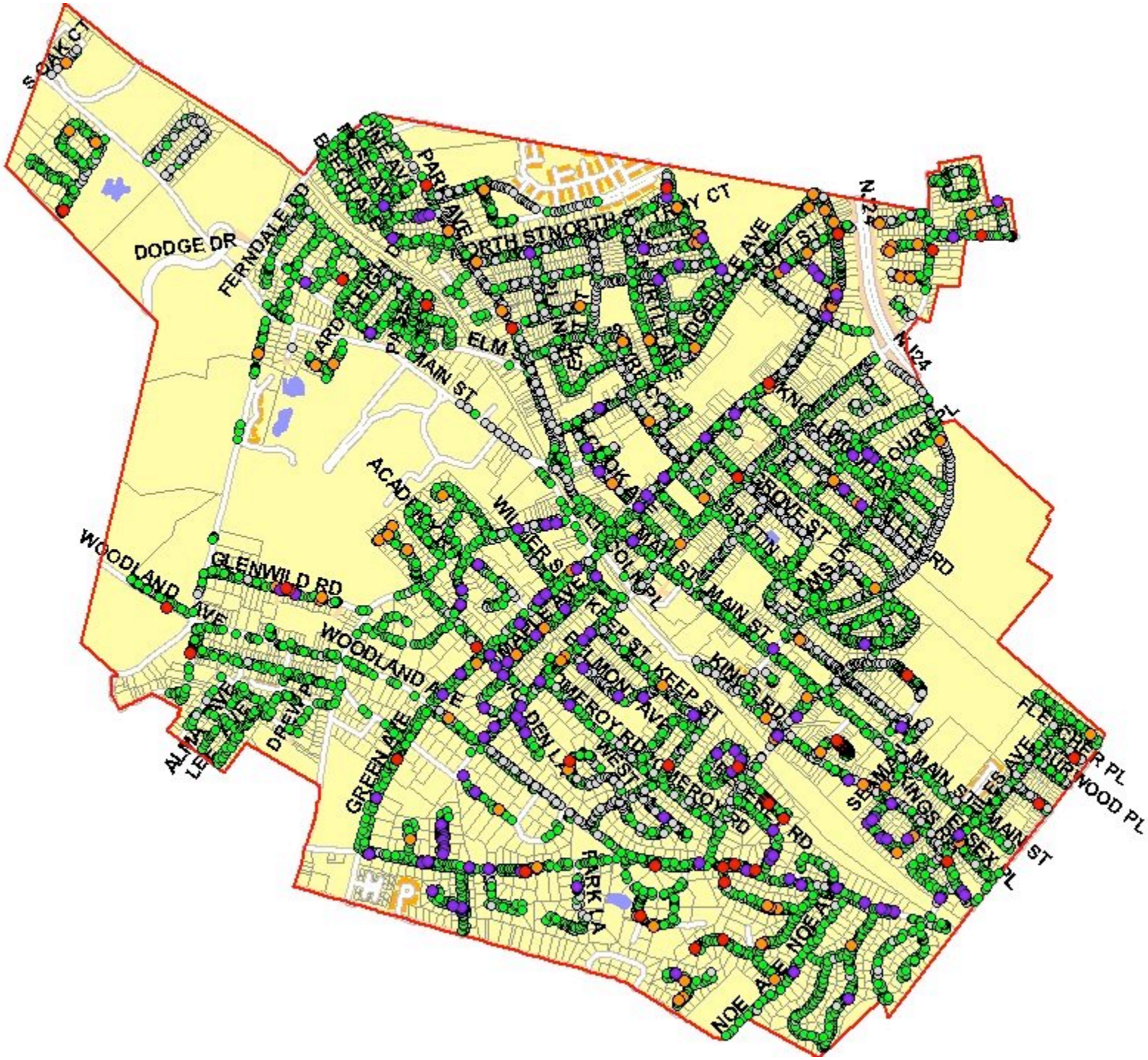


Tree Inventory Statistics

Condition Analysis

Condition	Count
Fair	4551
Poor	1924
Good	164
Dead	51
Critical	9





DODGE DR
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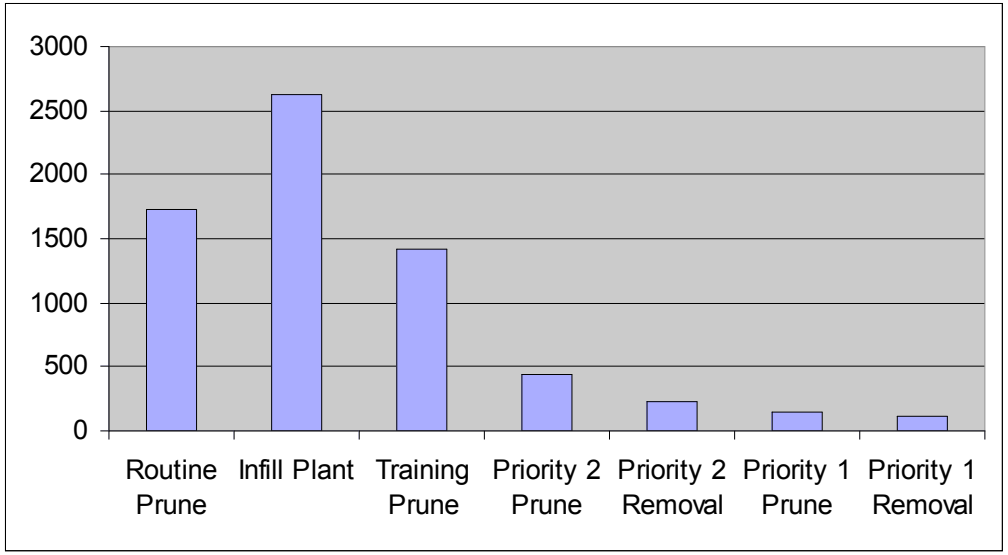
KINGS RD
FLETCHER PL
NOE AVE

Project Results

Tree data provides instantly usable information.

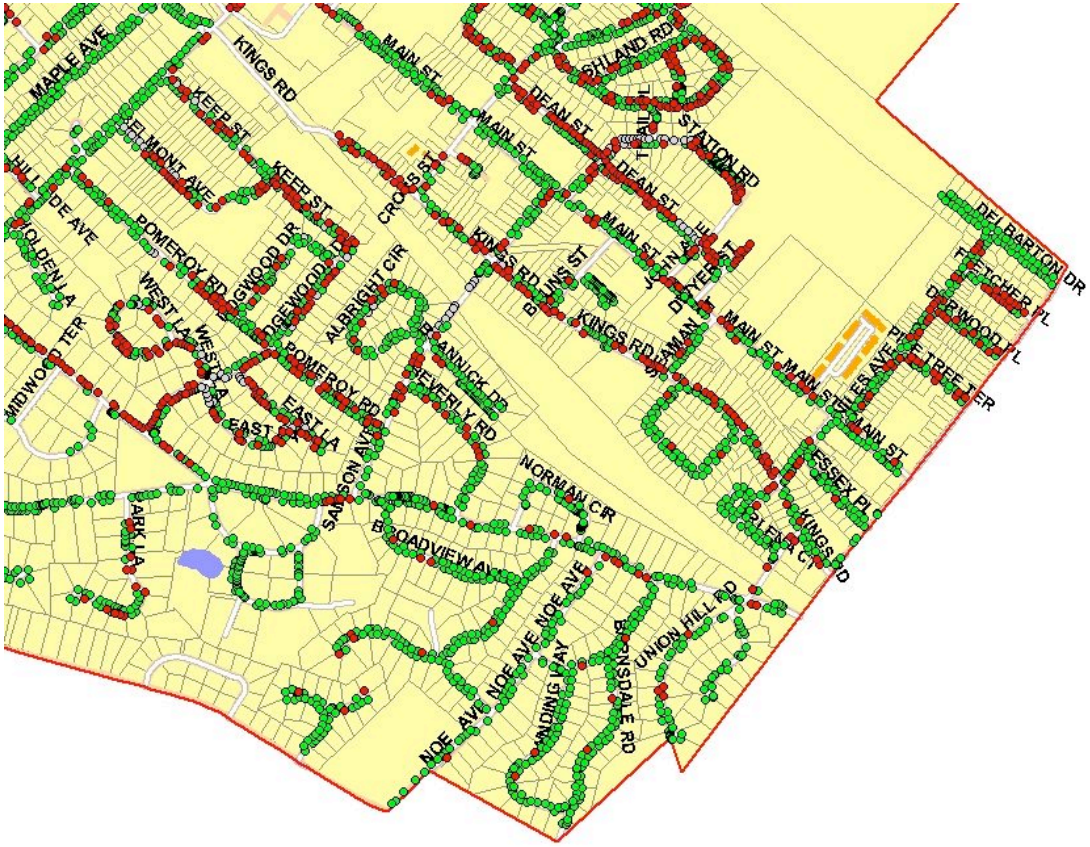
Maintenance Recommendations based on ISA Guidelines

Maintenance	Count
Routine Prune	1722
Infill Plant	2628
Training Prune	1415
Priority 2 Prune	445
Priority 2 Removal	225
Priority 1 Prune	144
Priority 1 Removal	118



Maintenance Recommendations

Vacant Planting Sites



Statistical Analysis

Critical Trees

Botanical Name	Common Name	Count
Acer saccharum	Sugar Maple	2
Gymnocladus dioica	Kentucky Coffee Tree	1
Gleditsia triacanthos	Honey Locust	1
Fraxinus pennsylvanica	Green Ash	1
Carya glabra	Pignut Hickory	1
Acer saccharinum	Silver Maple	1
Acer rubrum	Red Maple	1
Acer plantanoides	Norway Maple	1
	Total	9

Statistical Analysis

Dead

Botanical Name	Common Name	Count
Ilex opaca	American Holly	26
Unidentifiable Tree	Unidentifiable Tree	4
Pinus contorta murrayana	Lodgepole Pine	3
Acer platanoides 'Crimson King'	Crimson King Maple	3
Acer plantanoides	Norway Maple	2
Pinus strobus	White Pine	2
Prunus blireiana	Flowering Plum	1
Prunus emarginata	Bitter Cherry	1
Pseudotsuga menziesii	Douglas Fir	1
Sassafras albidum	Sassafras	1
Picea abies	Norway Spruce	1
Thuja occidentalis	American Arborvitae	1
Cornus florida	Eastern Dogwood	1
Acer saccharum	Sugar Maple	1
Acer rubrum	Red Maple	1
Tilia americana	American Linden	1
Picea glauca albertiana	Alberta Spruce	1
	Total	**51**

Statistical Analysis

The Top 20

Common Name	Botanical Name	Count
Red Maple	Acer rubrum	787
Norway Maple	Acer plantanoides	743
Crimson King Maple	Acer platanoides 'Crimson King'	392
Ornamental Pear	Pyrus calleryana	340
American Sycamore	Platanus occidentalis	324
Green Ash	Fraxinus pennsylvanica	298
Pin Oak	Quercus palustris	292
Little-Leaf Linden	Tilia cordata	264
American Arborvitae	Thuja occidentalis	254
Red Oak	Quercus rubra	178
Sawleaf Zelkova	Zelkova serrata	171
Chinese Elm	Ulmus parvifolia	133
Deborah Maple	Acer platanoides 'Deborah'	123
Norway Spruce	Picea abies	87
Sawtooth Oak	Quercus acutissima	80
Eastern Hemlock	Tsuga canadensis	78
American Holly	Ilex opaca	70
Eastern Dogwood	Cornus florida	66
Colorado Spruce	Picea pungens	65
Japanese Maple	Acer palmatum	61

Thank you, are there any questions?