

City of St Joseph

Tree Inventory Report

April 27, 2009

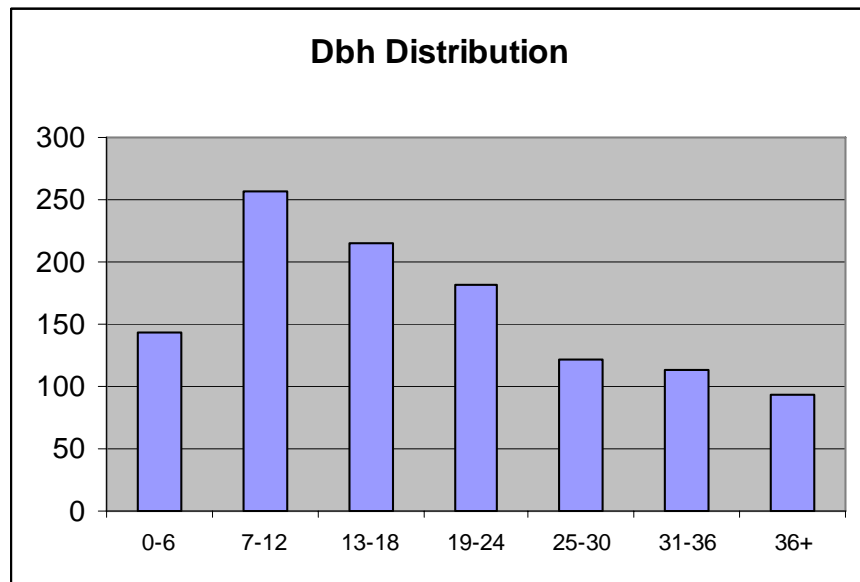
Report Summary

On March 19, 2009 ArborPro, Inc. began operations on a comprehensive GPS tree inventory for the City of St Joseph. Over the course of the next couple of weeks our Board Certified Master Arborist identified 1,643 tree sites as directed by the City. The purpose of this report is to summarize the findings of our survey.

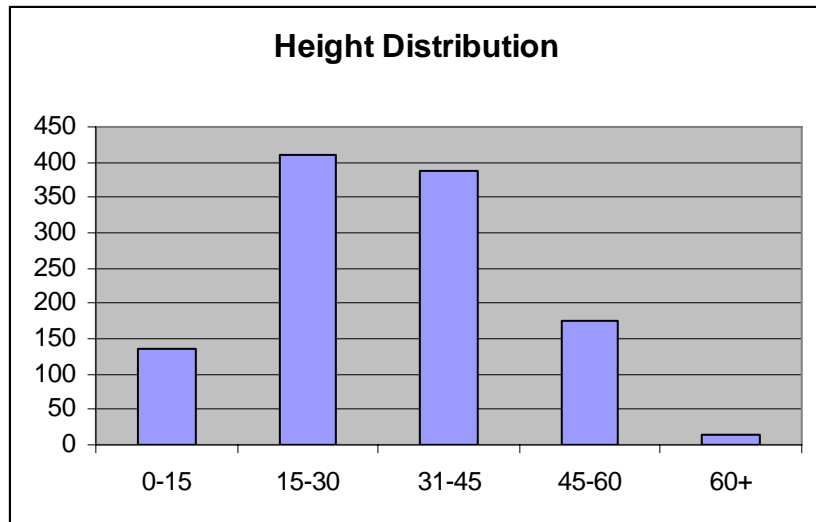
Size Characteristics

The general size of a tree provides insight into the age and value of the tree. There are two industry-wide recognized size characteristics, height and diameter at breast height. While height is self explanatory, diameter at breast height (DBH) is determined by the diameter of the tree at 4.5 feet above grade. Both the height and the DBH are collected in ranges due to the dynamic growth rate of trees.

DBH Range	Tree Count
0-6	144
7-12	256
13-18	215
19-24	182
25-30	122
31-36	113
36+	94
Vacant Site	517
Total	1,643



Height	Tree Count
0-15	137
15-30	410
31-45	389
45-60	175
60+	15
Vacant Site	517
Total	1,643



Tree Condition

Excellent – The tree is near perfect condition, this determination is generally used for trees with no defects and young trees that have been properly maintained.

Very Good – The tree is in very good condition with very minor defects that could be corrected by pruning. These trees generally “stand out” with respect to the aesthetic value they add to the Urban Forest.

Good – The tree has no major structural problems; no significant damage from diseases or pests; no significant mechanical damage; a full, balanced crown, and normal twig condition and vigor for its species.

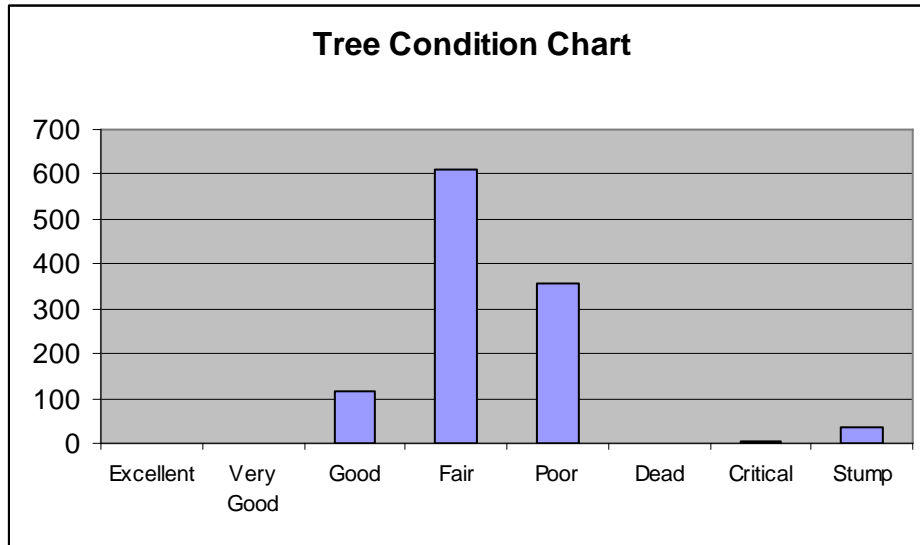
Fair – The tree may exhibit the following characteristics: minor structural problems and/or mechanical damage; significant damage from non-fatal or disfiguring diseases; minor crown imbalance or thin crown; minor structural imbalance; or stunted growth compared to adjacent trees.

Poor – The tree appears healthy, but may have structural defects. This classification also includes healthy trees that have unbalanced structures or have been topped. Trees in this category may also have severe mechanical damage, decay, severe crown dieback or poor vigor/failure to thrive.

Dead – Trees in advanced states of decline are not included. This category refers only to dead trees.

Critical – The tree is in a physical state that requires immediate attention. Generally these trees are recommended for a Priority One Removal.

Tree Condition	Tree Count
Excellent	0
Very Good	0
Good	115
Fair	611
Poor	358
Dead	0
Critical	5
Stump	37
Vacancy	517
Total	1,643



Species Frequency

The population diversity of our survey is listed on the following pages. The City of St Joseph public domain includes a wide diversity of trees.

Botanical Name	Common Name	Tree Count
Acer saccharinum	Silver Maple	200
Acer saccharum	Sugar Maple	152
Acer plantanoides	Norway Maple	100
Acer rubrum	Red Maple	90
Quercus palustris	Pin Oak	84
Liquidambar styraciflua	American Sweet Gum	80
Pyrus calleryana	Ornamental Pear	75
Fraxinus pennsylvanica	Green Ash	73
Quercus rubra	Red Oak	43
Fraxinus americana	White Ash	37
Stump	Stump	32
Ulmus pumila	Siberian Elm	26
Cercis canadensis	Eastern Redbud	24
Other Tree	Other Tree	11
Platanus occidentalis	American Sycamore	7
Gleditsia triacanthos inermis	Thornless Honey Locust	7
Tilia cordata	Little-Leaf Linden	7

Celtis spp.	Hackberry	6
Robinia hispida	Bristly Locust	6
Vacant site w/ overhead ca	Vacant site w/ overhead ca	6
Ulmus americana	American Elm	5
Ailanthus altissima	Tree of Heaven	5
Juniperus virginiana	Eastern Red Cedar	5
Malus floribunda	Crabapple	4
Acer negundo	Box Elder	4
Pinus nigra	Australian Black Pine	4
Carya illinoensis	Pecan	3
Ginkgo biloba	Maidenhair Tree	3
Liriodendron tulipifera	Tulip Tree	3
Morus alba	White Mulberry	3
Quercus shumardii	Shumard Oak	3
Acer palmatum	Japanese Maple	2
Robinia pseudoacacia	Black Locust	2
Crataegus phaenopyrum	Washington Hawthorn	2
Juglans nigra	Black Walnut	2
Celtis pallida	Spiny Hackberry	1
Rhus typhina	Staghorn Sumac	1
Quercus velutina	Black Oak	1
Quercus stellata	Post Oak	1
Aesculus glabra	Ohio Buckeye	1
Amelanchier laevis	Allegheny Serviceberry	1
Betula nigra	River Birch	1
Malus domestica	Edible Apple Species	1
Catalpa bignonioides	Eastern Catalpa	1
Prunus serrulata	Japanese Flowering Cherry	1
Prunus serotina	Eastern Black Cherry	1
Cornus florida	Eastern Dogwood	1
Prunus cerasifera	Purple-Leaf Plum	1
Juniperus occidentalis	Western Juniper	1
Hibiscus syriacus	Rose-of-Sharon	1
Quercus alba	White Oak	1