

# City of St Joseph

## Tree Inventory Report

### April 7, 2015

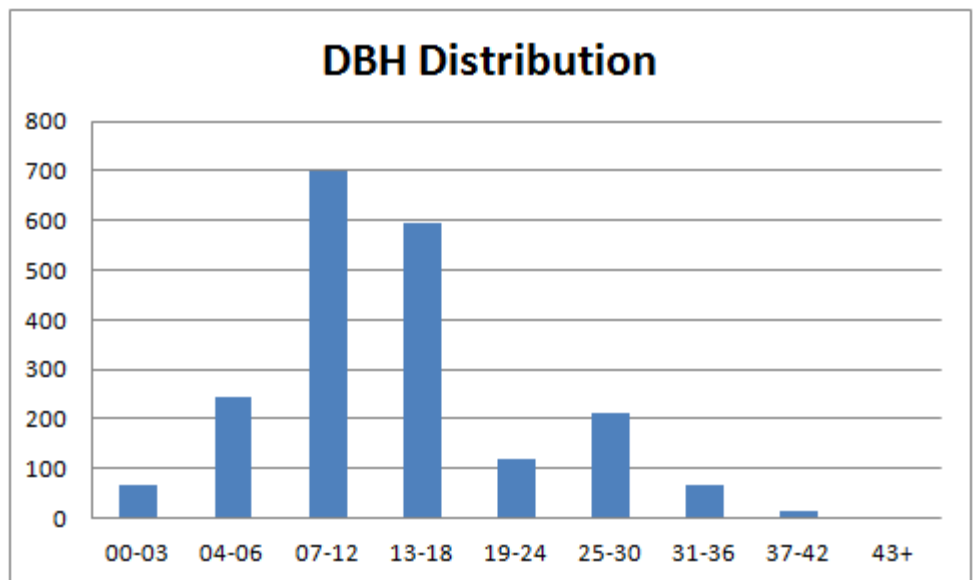
### Report Summary

In 2009 ArborPro, Inc. began phase 1 of a comprehensive GPS tree inventory for the City of St Joseph. In 2013 and then following in 2014 ArborPro completed phase 2 and phase 3 of the tree inventory project. The purpose of this report is to summarize the findings of our survey provided for the City of St Joseph in 2015. The project area includes the streets within the north boundary of County Line Road, east boundary of Interstate 29, west boundary of Interstate 229 and south boundary Highland Avenue.

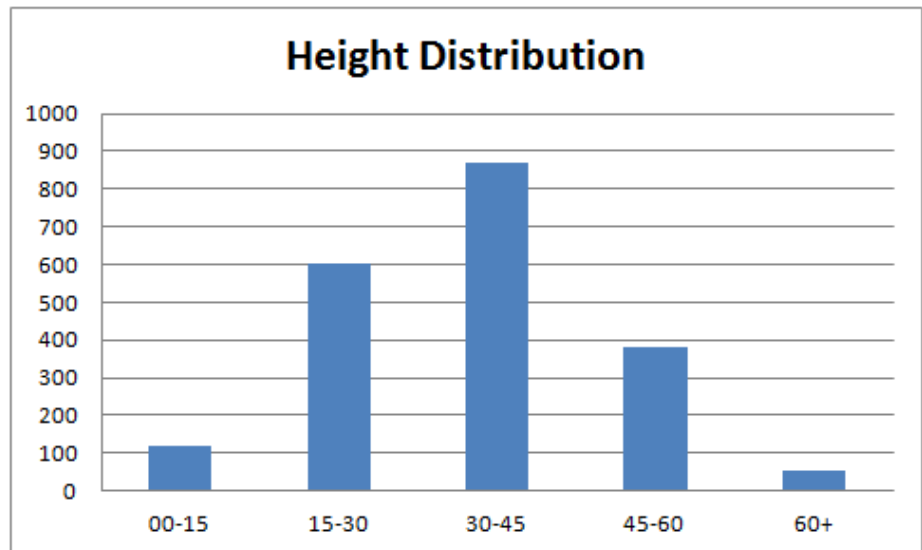
### Size Characteristics

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	Tree Count
00-03	67
04-06	246
07-12	698
13-18	594
19-24	121
25-30	214
31-36	65
37-42	16
43+	3
<b>Total</b>	<b>2,024</b>



Height	Tree Count
00-15	117
15-30	603
30-45	871
45-60	382
60+	51
<b>Total</b>	<b>2,024</b>



## Tree Condition

**Excellent** ó 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** ó The tree is in very good condition with very minor defects that could be corrected by pruning. These trees generally òstand outö with respect to the aesthetic value they add to the Urban Forest.

Tree Condition	Tree Count
Excellent	2
Good	263
Fair	1,608
Poor	144
Dead	6
Critical	1
<b>Total</b>	<b>2,024</b>

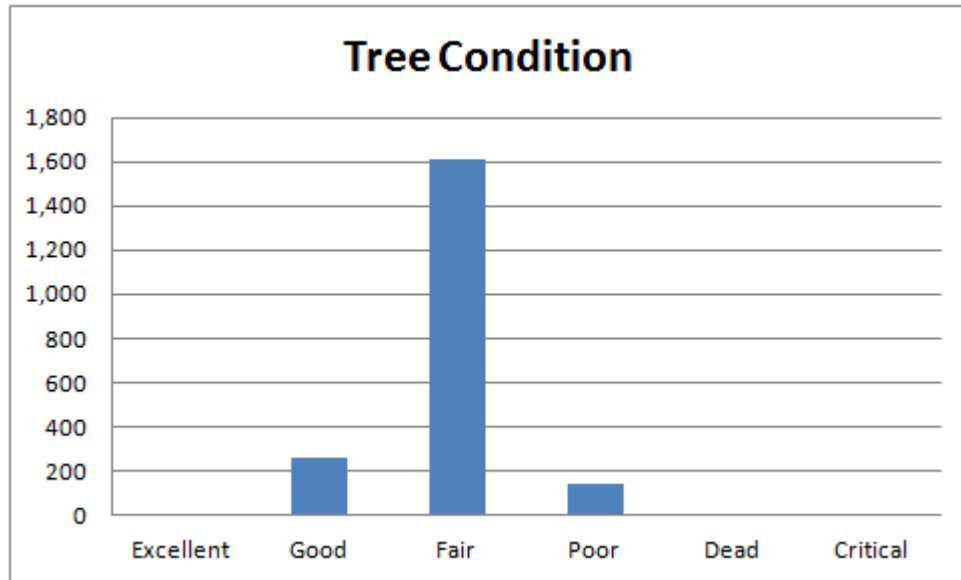
**Good** ó The tree has no major structural problems; no significant damage from diseases or pests; no significant mechanical damage; a full, balanced crown, and normal twig condition and vigor for its species.

**Fair** ó 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** ó 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** ó Trees in advanced states of decline are not included. This category refers only to dead trees.

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



## 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 ginnala	Amur Maple	5
Acer negundo	Box Elder	10
Acer plantanoides	Norway Maple	52
Acer platanoides 'Crimson King'	Crimson King Maple	12
Acer platanoides 'Deborah'	Deborah Maple	3
Acer rubrum	Red Maple	122
Acer rubrum 'October Glory'	October Glory Maple	19
Acer saccharinum	Silver Maple	130
Acer saccharum	Sugar Maple	113
Acer x freemanii 'Autumn Blaze'	Autumn Blaze Maple	2
Ailanthus altissima	Tree of Heaven	28
Albizia julibrissin	Mimosa, Silk Tree	1
Betula nigra	River Birch	5
Betula papyrifera	Paper Birch	1
Carya glabra	Pignut Hickory	7
Carya ovata	Shagbark Hickory	1
Catalpa bignonioides	Eastern Catalpa	6

Catalpa speciosa	Western Catalpa	15
Celtis occidentalis	Common Hackberry	182
Cercis canadensis	Eastern Redbud	65
Cornus florida	Eastern Dogwood	6
Crataegus mollis	Downy Hawthorne	1
Euonymus alatus	Winged Euonymus	1
Euonymus europaeus	Spindle Tree	1
Fraxinus americana	White Ash	54
Fraxinus pennsylvanica	Green Ash	39
Fraxinus quadrangulata	Blue Ash	1
Ginkgo biloba	Maidenhair Tree	1
Gleditsia triacanthos inermis 'Rubylace'	Rubylace' Honey Locust	4
Gleditsia triacanthos	Honey Locust	1
Gleditsia triacanthos forma inermis	Thornless Honey Locust	6
Hibiscus syriacus	Rose-of-Sharon	1
Juglans nigra	Black Walnut	262
Juniperus virginiana	Eastern Red Cedar	51
Koelreuteria paniculata	Goldenrain Tree	2
Ligustrum lucidum	Glossy Privet	6
Liquidambar styraciflua	American Sweet Gum	32
Liriodendron tulipifera	Tulip Tree	5
Magnolia acuminata	Cucumber Tree	3
Magnolia grandiflora	Southern Magnolia	1
Magnolia stellata	Star Magnolia	4
Malus domestica	Edible Apple Species	2
Malus floribunda	Crabapple	20
Morus rubra	Red Mulberry	18
Other Tree	Other Tree	6
Picea abies	Norway Spruce	5
Picea pungens glauca	Colorado Blue Spruce	18
Picea pungens 'Hoopsii'	Hoopsii' Colorado Spruce	1
Pinus strobus	White Pine	8
Pinus sylvestris	Scotch Pine	2
Platanus occidentalis	American Sycamore	21
Populus deltoides	Cottonwood	1
Populus nigra 'Italica'	Lombardy Poplar	4
Populus tremuloides	Quaking Aspen	2
Prunus cerasifera	Purple-Leaf Plum	6
Prunus persica	Peach	2
Prunus serotina	Eastern Black Cherry	6
Prunus subhirtella 'Pendula'	Weeping Flowering Cherry	1

Prunus virginiana	Common Chokecherry	9
Pseudotsuga menziesii	Douglas Fir	1
Pyrus calleryana	Ornamental Pear	26
Pyrus calleryana 'Aristocrat'	Aristocrat Pear	19
Pyrus calleryana 'Bradford'	Bradford Pear	14
Pyrus calleryana 'Cleveland Select'	'Cleveland Select' Ornamental Pear	14
Pyrus calleryana 'New Bradford'	'New Bradford' Ornamental Pear	1
Quercus acutissima	Sawtooth Oak	1
Quercus alba	White Oak	8
Quercus bicolor	Swamp White Oak	2
Quercus coccinea	Scarlet Oak	23
Quercus imbricaria	Shingle Oak	6
Quercus palustris	Pin Oak	37
Quercus rubra	Red Oak	22
Quercus shumardii	Shumard Oak	6
Quercus stellata	Post Oak	11
Rhamnus caroliniana	Carolina Buckthorn	1
Robinia pseudoacacia	Black Locust	27
Salix matsudana 'Tortuosa'	Corkscrew Willow	1
Salix nigra	Black Willow	1
Syringa reticulata	Japanese Tree Lilac	1
Taxodium distichum	Bald Cypress	1
Thuja occidentalis	American Arborvitae	19
Tilia americana	American Linden	8
Tilia cordata	Little-Leaf Linden	2
Ulmus americana	American Elm	29
Ulmus pumila	Siberian Elm	108
Ulmus rubra	Slippery Elm	207
Ulmus x 'Frontier'	'Frontier' Elm	2
Yucca spp.	Yucca Species	1