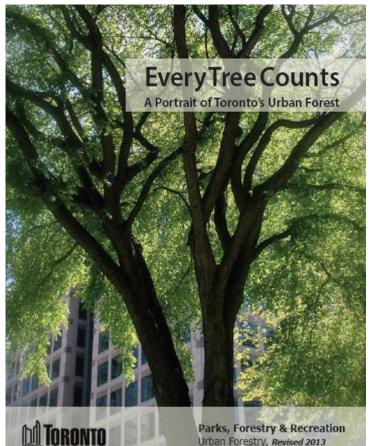
# 2018 Tree Canopy Study

Infrastructure and Environment Committee January 9, 2020



## **Study Background**

A decade has passed since the original tree canopy study was undertaken.



Parks, Forestry & Recreation Urban Forestry, Revised 2013

The Strategic Forest Management Plan recommended that tree canopy studies should be undertaken every ten years.



SUSTAINING AND EXPANDING THE URBAN TORONTO'S STRATEGIC FOREST MANAGEMENT PLAN 2012-2022



M Toronto

Parks, Forestry and Recreation

### **Benefits of Trees**





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**\$4.0 Million** GROSS CARBON SEQUESTRATION

\$4.8 Million

\$37.6 Million

POLLUTION REMOVAL



# **Study Methodology**

The consultants used two methods to estimate canopy cover:

#### Manual Random Point Sampling (10,000 points)

#### Automated Continuous Classification

Tree Cover Distribution in the **City of Toronto** Tree Cover Major Arterial Expressway **City of Toronto Limits** 

# **2018 Tree Canopy Study Findings**



Toronto's canopy cover and total tree population increased over the last ten years.



Street trees are making a significant contribution to the urban forest.

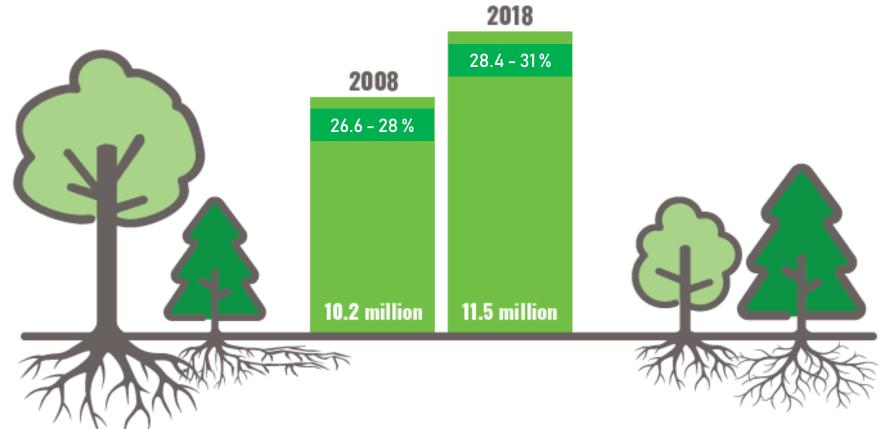


The composition and condition of the urban forest has seen positive and negative changes.



Impervious land cover is increasing across the city.





# Street Tree Condition Improved







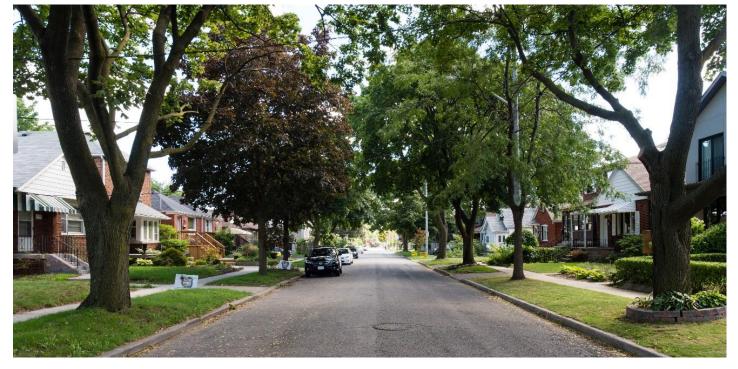
74.4% Street trees in GOOD OR EXCELLENT CONDITION



**33.7%** Number of LARGE TREES > 30.6 cm DBH









## **Urban Forest Composition and Condition Changes**







#### Native Species

A species living within its natural range that is naturally self-sustaining.

#### **Invasive Species**

A non-native species that aggressively out-competes native species and comes to dominate the ecosystem.



#### **Impervious Land Cover Increased**



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Pervious surfaces absorb water that supports tree growth. Pervious surfaces are potential plantable space for new tree planting. These surfaces include tree, grass, shrub, water and bare earth land covers.

Impervious surfaces do not absorb water and do not support tree growth. Instead impervious surfaces increase surface water runoff. These surfaces include buildings, roads and other impervious land covers.

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### **Growing Toronto's Urban Forest**

