

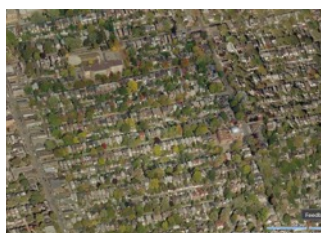
Measuring Footprint of Urban Forestry in Canada: mapping the extent and intensity of urban forestry activities



Urban forest establishment

Canada's Urban Forestry

The term “Urban Forestry” was coined at the Faculty of Forestry, University of Toronto in 1965 (Jorgensen, 1993).



Urban forest planning and design

Urban Forestry (UF)...

- ▶ Has evolved and expanded over the years
- ▶ Has been practiced, with different intensity, from small towns to large metropolitan areas
- ▶ Includes a wide range of elements, from policies and by-laws, diverse management and stewardship activities to spatial planning, and conservation
- ▶ Has been embedded in various municipal departments and is practiced under different labels
- ▶ And its diverse elements are often hidden within other disciplines and municipal activities

As a result, the extent and intensity of urban forestry activities across Canada's urban municipalities is larger than what it is typically perceived.



Carpinus caroliniana seedlings



Policy and By-laws



Management



Planning and Conservation

1

**DETERMINE THE EXTENT
AND INTENSITY OF URBAN
FORESTRY ACTIVITIES**

2

**CAPTURE DIFFERENT TERMS
RELATED TO URBAN
FORESTRY ACTIVITIES**

3

**MAP GEOGRAPHIC
DISTRIBUTION OF
URBAN FORESTRY**

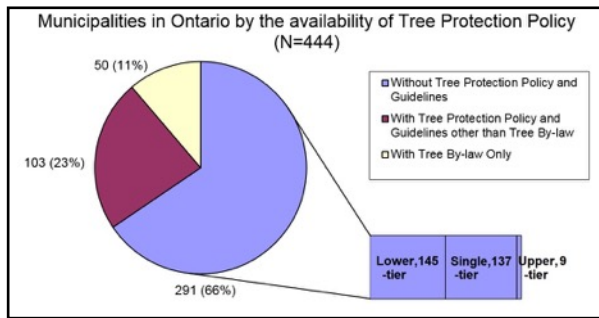
Methodology

STUDY AREAS

- ▶ Urban municipalities across Canada’s provinces and territories
- ▶ Urban areas with population over 3,000 and more

METHODS

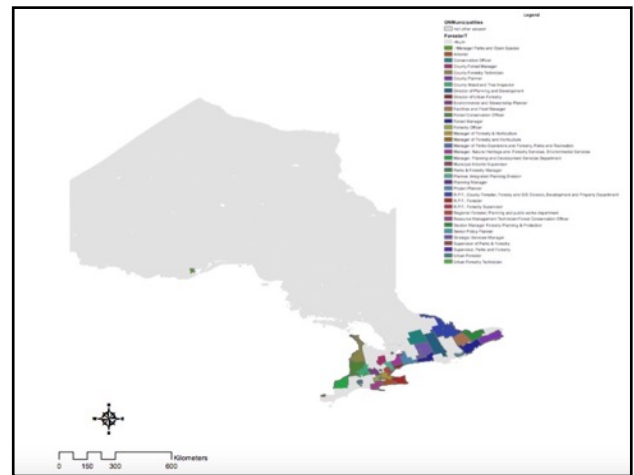
- ▶ Capture and standardize readily available web information related to urban forestry
- ▶ Map the findings based on the political and decision-making boundaries (e.g. municipalities in Ontario, boroughs in Montréal, Quebec)



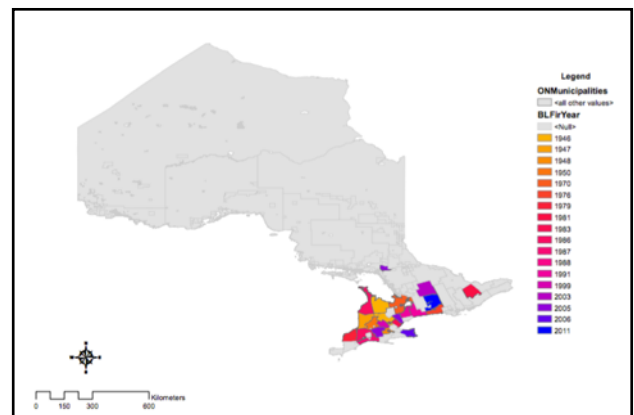
Other specific topics explored:

- Forestry and Related Departments
- Tree By-laws and Tree Protection Policies
- Urban Forest Management Plans
- Pest and Disease Management Strategies
- Tree Inventories
- Urban Forest Planning and Green Systems

DIFFERENT NAMES OF URBAN FORESTRY PRACTICES



YEAR OF THE TREE BY-LAW TAKING EFFECT IN ONTARIO



Notes: The shown maps are for illustrative purpose only and may contain omissions. Updated in June 2017.

Interactive Maps

Collected information on urban forestry and related stewardship, policy and management activities is spatially integrated into interactive maps.

ABOUT THE PROJECT

Project lead Dr. Danijela Puric-Mladenovic, Faculty of Forestry, University of Toronto. We acknowledge Dr. Adrina C. Bardekjian, Tree Canada, for providing direction and guidance on the project; Peter Wynnyczuk, Ontario Urban Forest Council and Ontario Ministry of Natural Resources and Forestry for making their forest conservation by-laws data available to this project. The project was funded by Tree Canada and Mitacs, which enabled Yuki Yung, a Master of Forest Conservation (MFC) student at the Faculty of Forestry, University of Toronto to become involved in this research and to further focus on tree protection in Ontario for her MFC capstone paper.

<http://forestry.utoronto.ca/canadas-urban-forestry-footprint/>
<http://forests-settled-urban-landscapes.org/UrbanForestryFootprint/>

Acknowledgements

