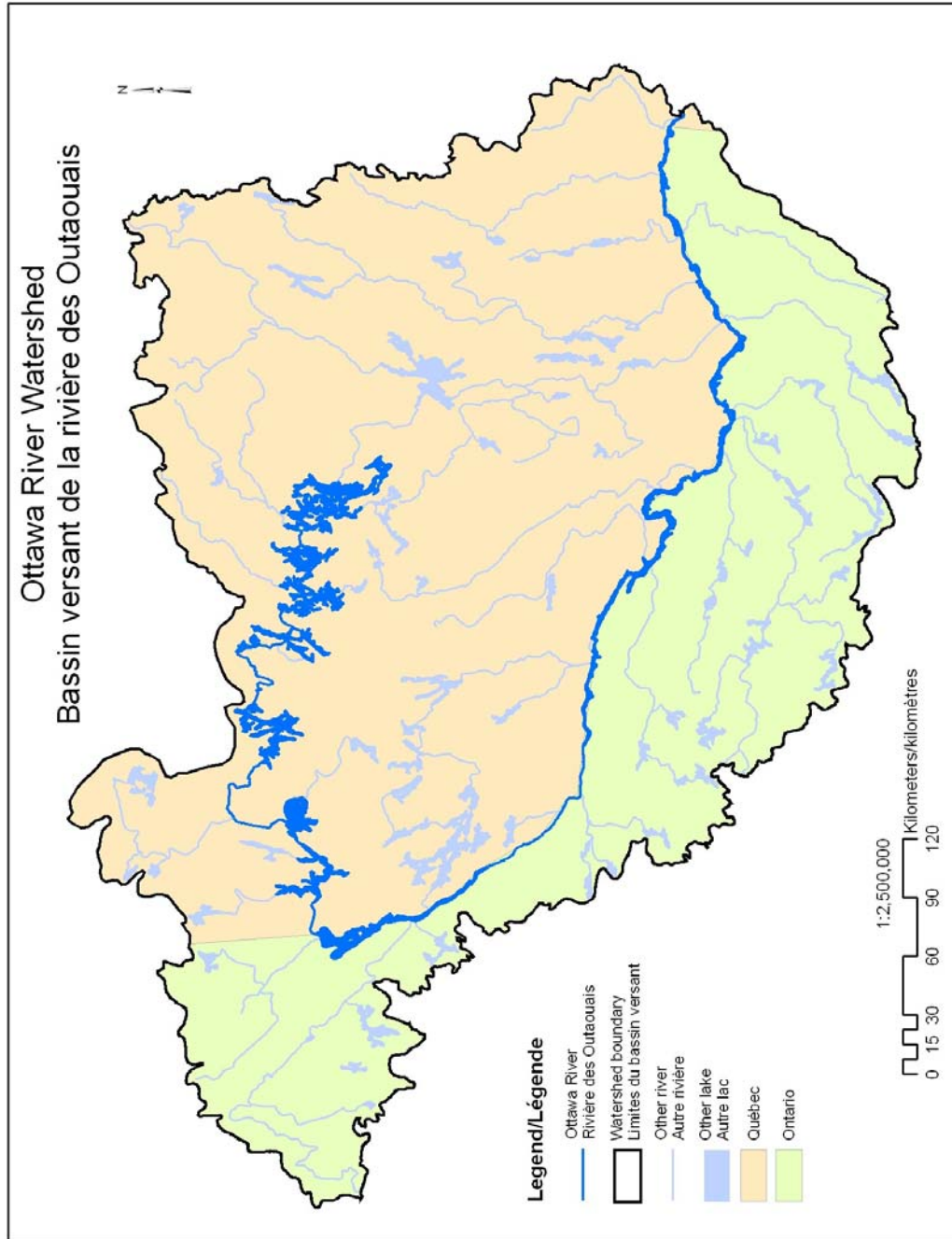


# Background Study

## Appendices

# Appendix A

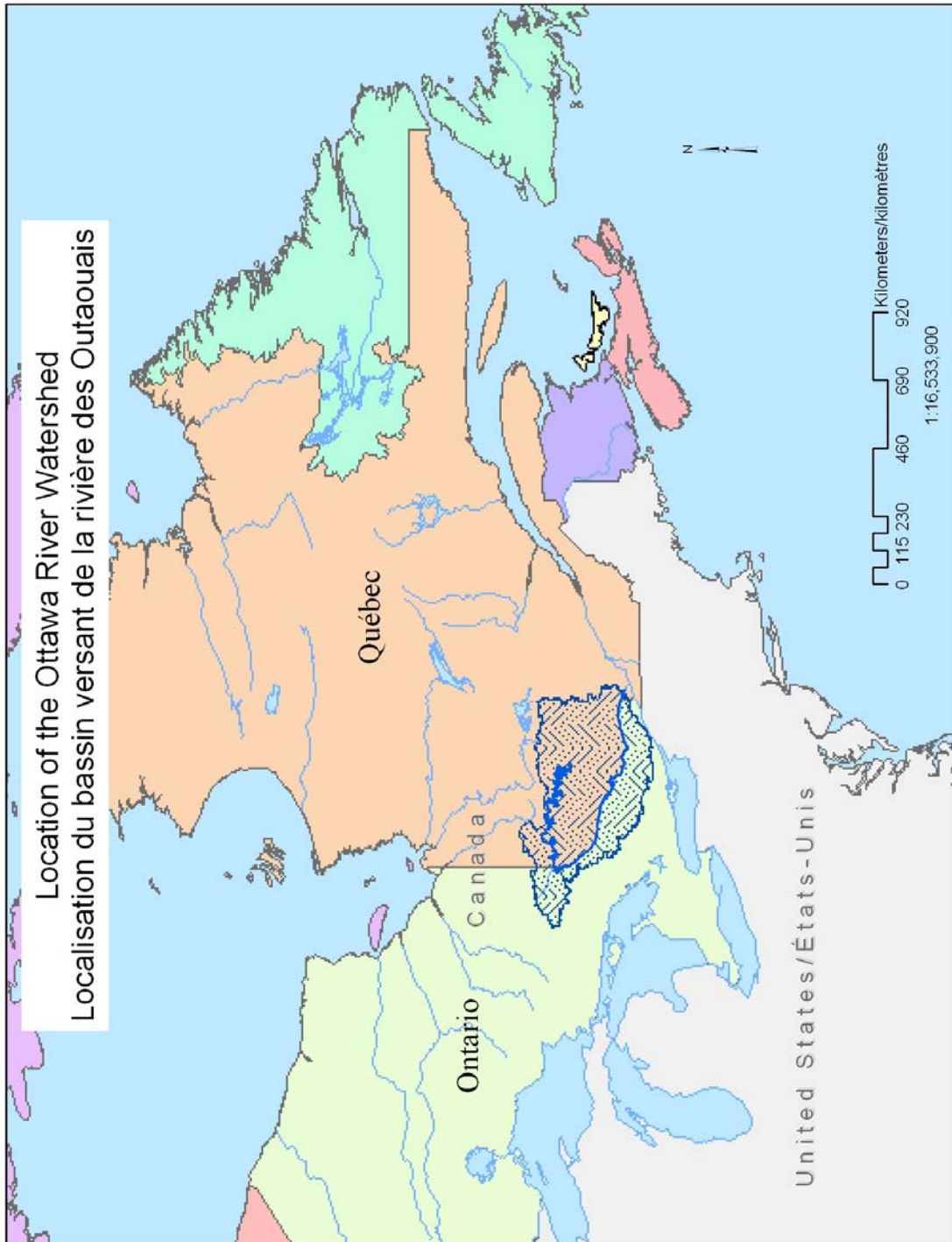
## Map 1: Ottawa River Watershed



Source: Ted Hiscock, Ontario Ministry of Natural Resources

## Appendix A

### Map 2: Location of the Ottawa River Watershed



Source: Ted Hiscock, Ontario Ministry of Natural Resources

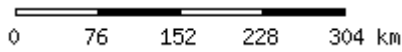
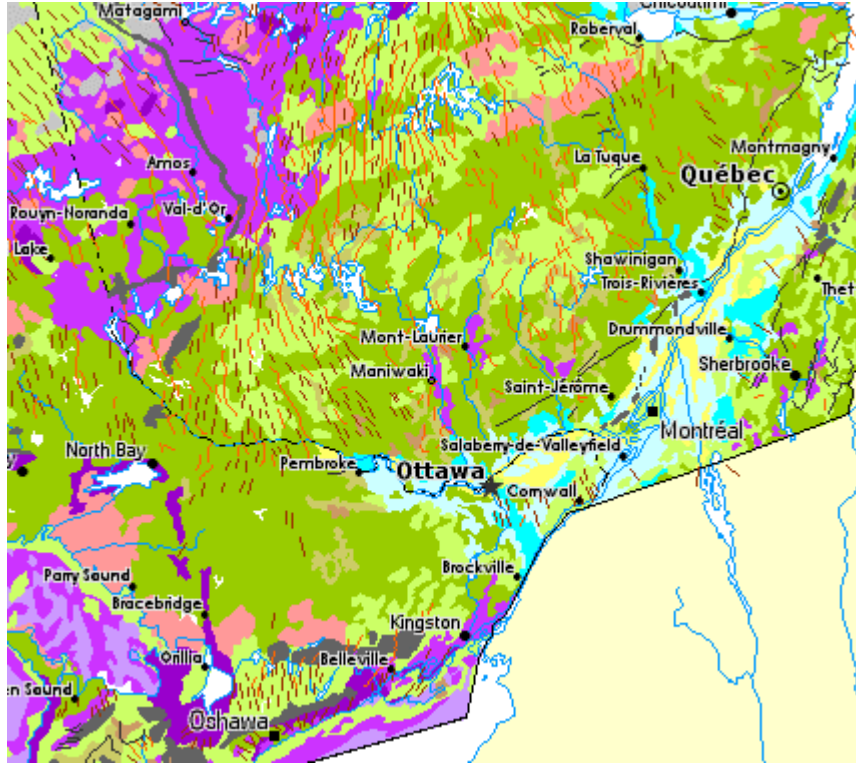






# Appendix A

## Map 6: Ottawa River Watershed – Surficial Materials









**Abstract:**

Most unconsolidated materials covering the Canadian landmass have glacial origins. Some sediments were entrained by glaciers and deposited at a distance without being sorted. Other sediments were picked up and reworked by glacial melt water, or transported and deposited by river or wind action. Some sediments are organic or volcanic in origin. Sediments are classified according to the manner in which they were transported and deposited.



| Surficial Materials    |                                 |
|------------------------|---------------------------------|
|                        | Glaciers                        |
|                        | Alluvial Deposits               |
|                        | Marine Mud and Sand             |
|                        | Lacustrine Mud and Sand         |
|                        | Eolian Deposits                 |
|                        | Organic Deposits                |
|                        | Colluvial Blocks and Rubble     |
|                        | Colluvial Fines and Sand        |
|                        | Fine Grained Glaciolacustrine   |
|                        | Coarse Grained Glaciolacustrine |
|                        | Fine Grained Glaciomarine       |
|                        | Coarse Grained Glaciomarine     |
|                        | Lag Glaciomarine                |
|                        | Glaciofluvial Plain             |
|                        | Glaciofluvial Complex           |
|                        | Till Blanket                    |
|                        | Till Veneer                     |
|                        | Quaternary Volcanic Rock        |
|                        | Alpine Complexes                |
|                        | Undivided                       |
|                        | Water area                      |
|                        | Regions outside Canada          |
| Wisconsinian Ice Limit |                                 |
|                        | Ice Limit                       |
| Moraines               |                                 |
|                        | Moraine                         |
| Eskers                 |                                 |
|                        | Esker                           |
| Drumlins               |                                 |
|                        | Drumlin                         |
| Large Moraines         |                                 |
|                        | Moraine                         |
| Populated Places       |                                 |
|                        | 1 - 4999                        |
|                        | 5 000 - 49 999                  |
|                        | 50 000 - 99 999                 |
|                        | 100 000 and greater             |

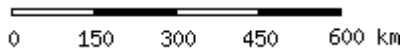
|   |   |
|---|---|
|  | Provincial and Territorial Capital      |
|  | National Capital                        |
| <b>Boundaries</b>   |   |
|  | International                           |
|  | Provincial / Territorial                |
|  | Canada / Kalaallit Nunaat dividing line |
|  | EEZ (200 mile)                          |

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# Appendix A

## Map 7: Ottawa River Watershed – Forested Ecozones



**Abstract:**

In Canada, there are 20 ecozones, consisting of 15 terrestrial and 5 marine units. The vegetation varies from one ecozone to another. Forests cover totally or partially nine ecozones: Pacific Maritime, Montane Cordillera, Boreal Cordillera, Taiga Plains, Boreal Plains, Prairie, Boreal Shield, Mixedwood Plains, and Atlantic Maritime.



| Forested Areas |                     |
|----------------|---------------------|
|                | Coniferous Forest   |
|                | Broadleaf Forest    |
|                | Mixed Forest        |
|                | Transitional Forest |

| Forested Ecozones |                    |
|-------------------|--------------------|
|                   | Taiga Plains       |
|                   | Boreal Plains      |
|                   | Boreal Shield      |
|                   | Boreal Cordillera  |
|                   | Pacific Maritime   |
|                   | Montane Cordillera |
|                   | Prairies           |
|                   | Atlantic Maritime  |
|                   | Mixedwood Plains   |

| Populated Places |                                    |
|------------------|------------------------------------|
|                  | 1 - 4 999                          |
|                  | 5 000 - 49 999                     |
|                  | 50 000 - 99 999                    |
|                  | 100 000 and greater                |
|                  | Provincial and Territorial Capital |
|                  | National Capital                   |

| Boundaries |   |
|------------|---|
|            | International                           |
|            | Provincial / Territorial                |
|            | EEZ (200 mile)                          |
|            | Canada / Kalaallit Nunaat dividing line |

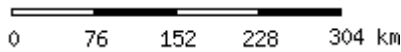
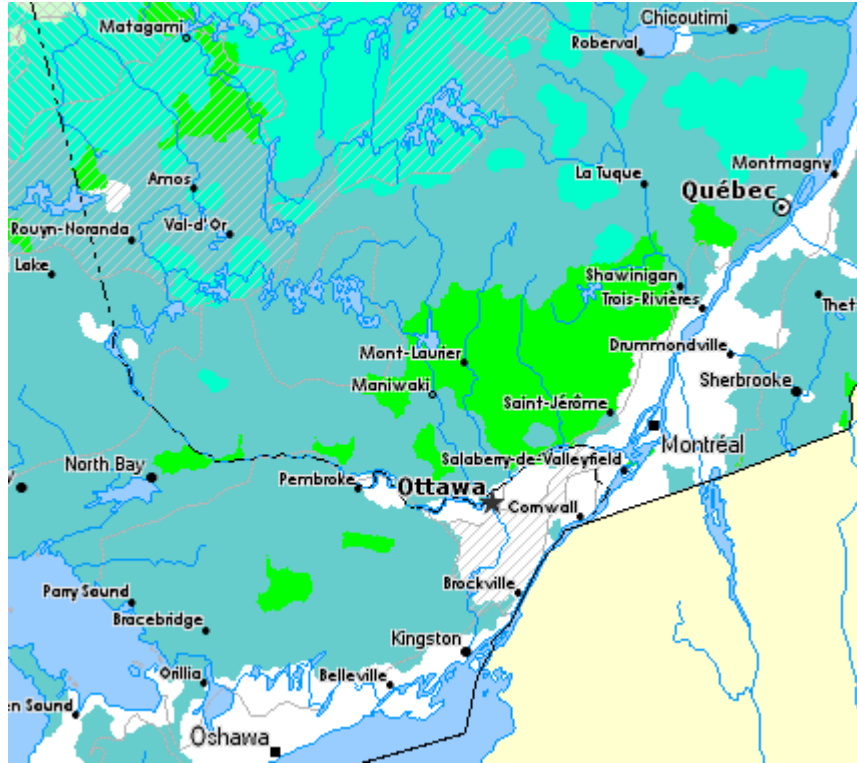
  

| Other Features |                        |
|----------------|------------------------|
|                | Water area             |
|                | Regions outside Canada |

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# Appendix A

## Map 8: Ottawa River Watershed – Wetlands and Forests



**Abstract:**

Wetlands are areas characterized by relatively shallow water. These areas play an extremely important role in Canada's ecology. Canada has one of the largest areas in the world with wetlands covering more than 1.2 million square kilometres. They occur across most of the country, and their location usually depends on local factors, which include drainage, topography and surface materials.

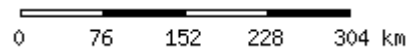
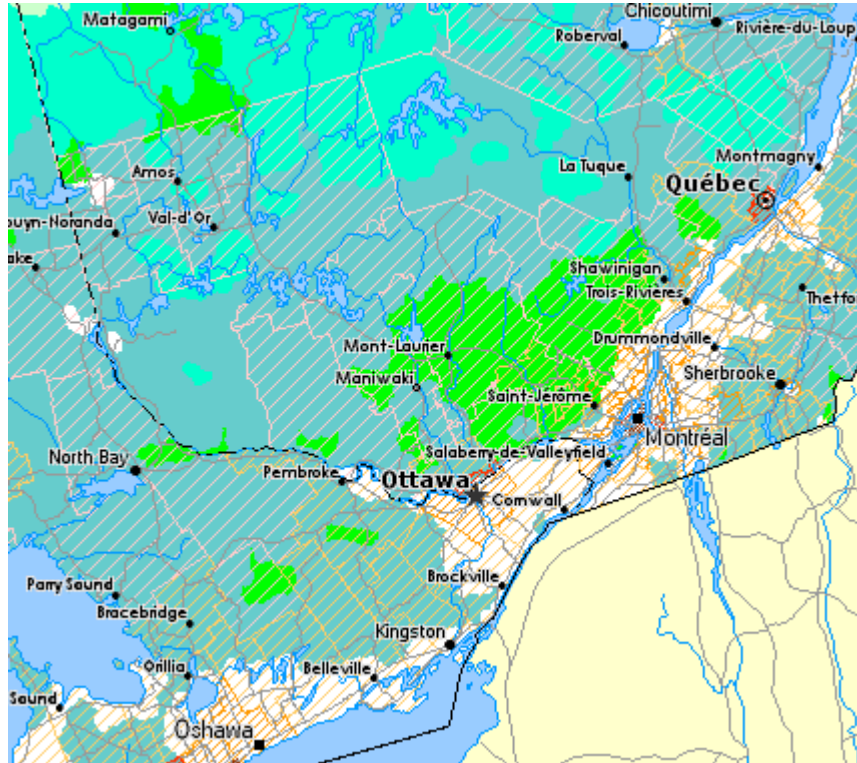


| Wetland regions                |   |
|--------------------------------|---|
|                                | < 10%                                   |
|                                | 10% - 25%                               |
|                                | 25% - 40%                               |
|                                | 40% - 65%                               |
|                                | >65%                                    |
| Forested Areas                 |   |
|                                | Coniferous Forest                       |
|                                | Broadleaf Forest                        |
|                                | Mixed Forest                            |
|                                | Transitional Forest                     |
| Geological Provinces (on Land) |   |
|                                | Relief                                  |
| Populated Places               |   |
|                                | 1 - 4 999                               |
|                                | 5 000 - 49 999                          |
|                                | 50 000 - 99 999                         |
|                                | 100 000 and greater                     |
|                                | Provincial and Territorial Capital      |
|                                | National Capital                        |
| Boundaries                     |   |
|                                | International                           |
|                                | Provincial / Territorial                |
|                                | Canada / Kalaallit Nunaat dividing line |
|                                | EEZ (200 mile)                          |
| Other Features                 |   |
|                                | Water area                              |
|                                | Regions outside Canada                  |

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# Appendix A

## Map 9: Ottawa River Watershed – Presence of Humans in Forested Areas



**Abstract:**

Increases in population, urbanisation and the development of the road network have replaced large forested lands and have created pressures on the remaining forests (or woodlands). Three principal Canadian forested regions have been most affected by these events: the Windsor-Québec corridor, the Prairies and the south-west of British Columbia.

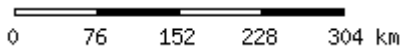
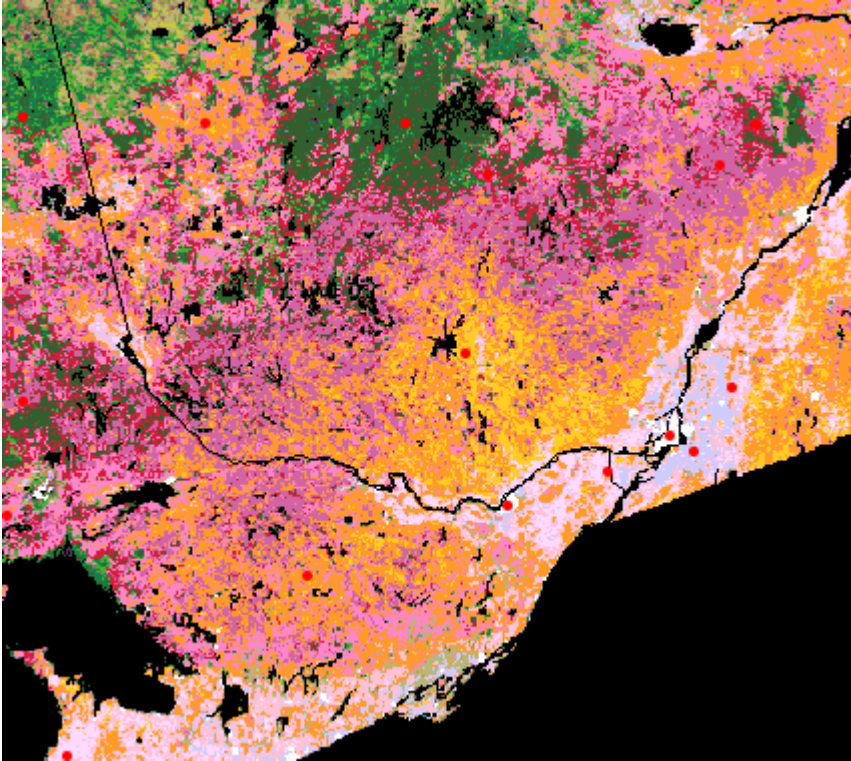


| Population Density by Census Division, 1996 (persons/square kilometre) |   |
|--|---|
|  | Less than 1                             |
|  | 1 to 9.9                                |
|  | 10 to 69.9                              |
|  | 70 to 599.9                             |
|  | 600 to 1 999.9                          |
|  | Greater than 2 000                      |
| Kilometres of Roads per Ecoregion                                      |   |
| Forested Areas   |   |
|  | Coniferous Forest                       |
|  | Broadleaf Forest                        |
|  | Mixed Forest                            |
|  | Transitional Forest                     |
| Populated Places   |   |
|  | 1 - 4 999                               |
|  | 5 000 - 49 999                          |
|  | 50 000 - 99 999                         |
|  | 100 000 and greater                     |
|  | Provincial and Territorial Capital      |
|  | National Capital                        |
| Boundaries   |   |
|  | International                           |
|  | Provincial / Territorial                |
|  | EEZ (200 mile)                          |
|  | Canada / Kalaallit Nunaat dividing line |
| Road network   |   |
|  | Road network                            |
|  | Ferry route                             |
| Other Features   |   |
|  | Water area                              |
|  | Regions outside Canada                  |

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# Appendix A

## Map 10: Ottawa River Watershed – Land Cover

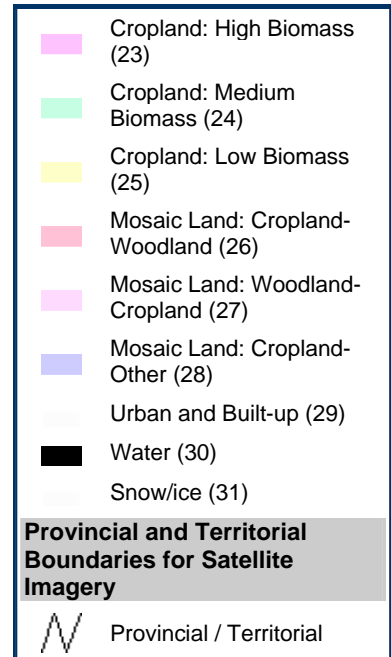


**Abstract:**

This map shows the distribution of land cover types across Canada, based on satellite data obtained in 1995. The land cover map contains 31 classes: 12 forest; 3 shrubland; 7 tundra/grasslands; 7 developed land types including cropland, mosaic and built-up areas; and 2 water cover types.



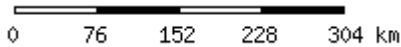
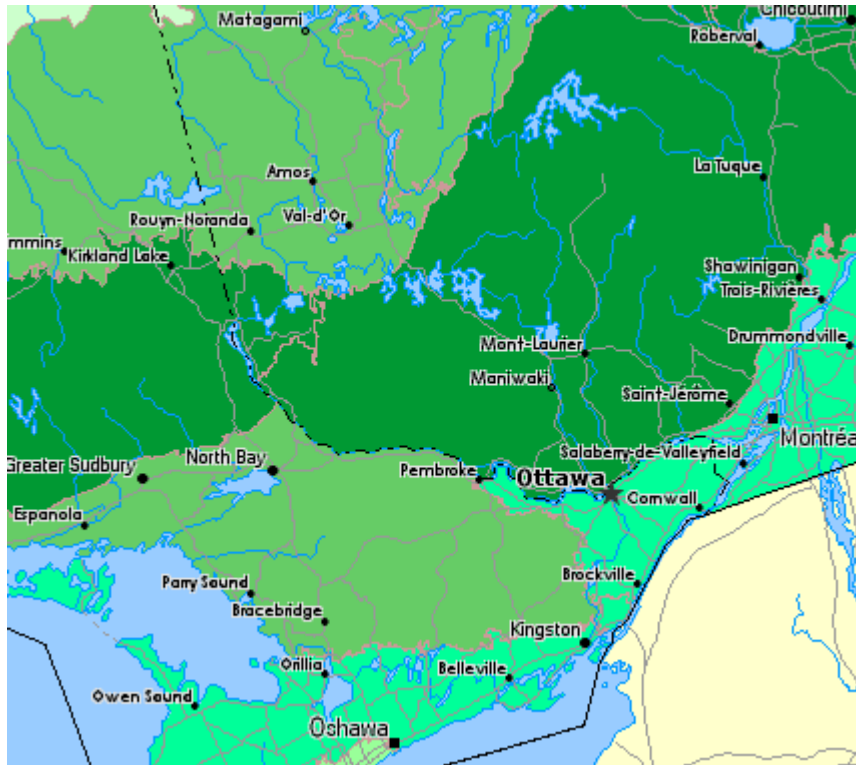
| Land Cover Description       |  |
|------------------------------|--|
| •                            | Land Cover Type                                  |
| Land Cover of Canada (image) |  |
|                              | Coniferous Forest: High Density (1)              |
|                              | Coniferous Forest: Medium Density - Southern (2) |
|                              | Coniferous Forest: Medium Density - Northern (3) |
|                              | Coniferous Forest: Low Density - Southern (4)    |
|                              | Coniferous Forest: Low Density - Northern (5)    |
|                              | Broadleaf Forest (6)                             |
|                              | Mixed Coniferous Forest (7)                      |
|                              | Mixed Uniform Forest (8)                         |
|                              | Mixed Heterogenous Forest (9)                    |
|                              | Mixed Broadleaf Forest (10)                      |
|                              | Burns: Low Green Vegetation Cover (11)           |
|                              | Burns: Green Vegetation Cover (12)               |
|                              | Transition Tree Shrubland (13)                   |
|                              | Wetland/Shrubland: High Density (14)             |
|                              | Wetland/Shrubland: Medium Density (15)           |
|                              | Grassland (16)                                   |
|                              | Tundra: Lichen and Others (17)                   |
|                              | Tundra: Shrub/Lichen Dominated (18)              |
|                              | Tundra: Heather and Herbs (19)                   |
|                              | Tundra: Low Vegetation Cover (20)                |
|                              | Tundra: Very Low Vegetation Cover (21)           |
|                              | Tundra: Bare Soil and Rock (22)                  |



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# Appendix A

## Map 11: Ottawa River Watershed – Productive Forest Land Use



**Abstract:**

Forty-five percent of the Canadian territory is forested corresponding to 417.6 million hectares. There are 234.5 million hectares of commercial forests and 0.4% is harvested each year.



| Percentage of Productive Forest |           |
|---------------------------------|-----------|
|                                 | < 1%      |
|                                 | 1% - 10%  |
|                                 | 10% - 25% |
|                                 | 25% - 50% |
|                                 | 50% - 75% |
|                                 | 75% - 98% |

| Populated Places |                                    |
|------------------|------------------------------------|
|                  | 1 - 4 999                          |
|                  | 5 000 - 49 999                     |
|                  | 50 000 - 99 999                    |
|                  | 100 000 and greater                |
|                  | Provincial and Territorial Capital |
|                  | National Capital                   |

| Boundaries |   |
|------------|---|
|            | International                           |
|            | Provincial / Territorial                |
|            | EEZ (200 mile)                          |
|            | Canada / Kalaallit Nunaat dividing line |
|            | Ecoregion Boundaries                    |

| Road network |              |
|--------------|--------------|
|              | Road network |
|              | Ferry route  |

| Other Features |                        |
|----------------|------------------------|
|                | Water area             |
|                | Regions outside Canada |

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