

CITY OF VAUGHAN • Year 2001 Report
Local Government

1a. OPERATING COSTS
General government support

$$\frac{\text{Operating costs for general government support}}{\text{Total Municipal Operating Costs}} \times 100$$

9.43% of total municipal operating costs

Efficiency Measure

General government support as a percentage of total municipal operating costs.

Objective

Efficient municipal administration.

Notes

Total municipal costs include costs for the following:

- General government
- Protection services (road works, winter control, street lighting, transit)]
- Environmental services (sanitary sewer, water works, waste collection & disposal, recycling)
- Health services (cemeteries)
- Recreation and cultural services (parks, recreation programs & facilities, libraries)
- Planning and development (planning & zoning, commercial development)

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Fire Services

2. OPERATING COSTS

Operating costs for Fire Services
(Total assessment / 1,000)

\$0.69 per \$1,000 of assessment

Efficiency Measure

Operating costs for fire services per \$1,000 of assessment.

Objective

Efficient municipal fire services.

Notes

Operating costs for fire services per \$1,000 of property assessment:

Vaughan operates 5 full-time, 1 composite and 1 volunteer fire stations, with 203 full-time and 36 volunteer firefighters, complimented by 28 administration, prevention, mechanical, communications and training staff. Vaughan's modern fleet of fire apparatus (6 quint and 6 triple combination pumpers) is supplemented with units specializing in technical (confined space & trench collapse) rescue, hazard mitigation, water tankers, rehabilitation and mechanical support functions.

For an average home valued at \$250,000, the cost was \$203.00 to operate the fire department in 2001.

In 2001, the fire department responded to 8,042 calls.

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Police Services

3. OPERATING COSTS	4a. TOTAL CRIME RATE / 1,000	4b. TOTAL CRIME RATE / 100,000
<p><u>Operating costs for Police Services</u> Total households</p>	<p>Total # of actual incidents for violent crime, property crime and other Criminal Code offences Population / 1,000</p>	<p>Total # of actual incidents for violent crime, property crime and other Criminal Code offences Population / 100,000</p>
<p>\$00.00 per household</p>	<p>00.00 crimes per 1,000 persons</p>	<p>00.00 crimes per 100,000 persons</p>
<p>Efficiency Measure <i>Operating costs for police services per household.</i></p> <p>Objective <i>Efficient municipal police services.</i></p>	<p>Effectiveness Measure <i>Total crime rate per 1,000 persons (Criminal Code, excluding traffic).</i></p> <p><i>Note that the Statistics Canada definition used refers to Criminal Code crimes, excluding traffic.</i></p> <p>Objective <i>Safe communities.</i></p>	<p>Effectiveness Measure <i>Total crime rate per 100,000 persons (Criminal Code, excluding traffic).</i></p> <p><i>Note that the Statistics Canada definition used refers to Criminal Code crimes, excluding traffic.</i></p> <p>Objective <i>Safe communities.</i></p>
<p>Notes</p> <p>Police services are provided by the Regional Municipality of York. Therefore, this indicator is not applicable to the City.</p>	<p>Notes</p> <p>N/A</p>	<p>Notes</p> <p>N/A</p>

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Road Services

5. OPERATING COSTS FOR PAVED ROADS	6. OPERATING COSTS FOR UNPAVED ROADS
<p style="text-align: center;"><u>Operating costs for paved roads</u> Total paved lane kilometres</p>	<p style="text-align: center;"><u>Operating costs for unpaved roads</u> Total unpaved lane kilometres</p>
<p style="text-align: center;">\$553.92 per paved lane kilometre</p>	<p style="text-align: center;">\$4,228.00 per unpaved lane kilometre</p>
<p>Efficiency Measure <i>Operating costs for paved (hard top) roads per lane kilometre.</i></p> <p>Objective <i>Efficient maintenance of paved roads.</i></p>	<p>Efficiency Measure <i>Operating costs for unpaved (loose top) roads per lane kilometre.</i></p> <p>Objective <i>Efficient maintenance of unpaved roads.</i></p>
<p>Notes</p> <p>The City has a total of 1,549 assumed paved lane kilometres on 63,132 acres of land. The operating costs includes frost heave/base/utility cut repair, cold mix patching, hot mix patching, shoulder maintenance, surface maintenance, surface weeping and surface flushing.</p> <p>The City also performs maintenance works on unassumed roads.</p>	<p>Notes</p> <p>The City has a total of 92 unpaved lane kilometres. The operating cost includes dust suppression, loose top grading, loose gravelling, spot base repair and wash out repair.</p>

Road Services

7. OPERATING COSTS FOR WINTER CONTROL	8. CONDITION OF ROADS
$\frac{\text{Operating costs for winter control maintenance of roadways}}{\text{Total lane kilometres maintained in winter}}$	$\frac{\text{Number of paved lane kilometres rated as good to very good}}{\text{Total number of paved lane kilometres tested}} \times 100$
\$2,814.74 per lane kilometre	96.99% of lane kilometres
<p>Efficiency Measure Operating costs for winter control maintenance of roadways per lane kilometre.</p> <p>Objective Efficient winter control operation.</p>	<p>Effectiveness Measure Percentage of paved lane kilometres where condition is rated as good to very good.</p> <p>Objective Provide a paved lane system that has a pavement condition that meets municipal standards.</p>
<p>Notes</p> <p>The City has a total of 1,549 assumed paved lane kilometres on 63,132 acres of land</p>	<p>Notes</p>

Road Services

9. WINTER EVENT RESPONSES
$\frac{\text{Number of winter event responses}}{\text{Total number of winter events}} \times 100$ <p style="text-align: center;"><u>that met or exceeded municipal road maintenance standards</u></p>
100.0% of winter event responses
<p>Effectiveness Percentage of winter event responses that met or exceeded municipal road maintenance standards.</p> <p>Objective Provide appropriate winter response.</p>
<p>Notes</p>

Transit Services

10. OPERATING COSTS	11. PUBLIC TRANSIT USE
<p style="text-align: center;"><u>Operating costs for conventional transit</u> Total number of regular service passenger trips</p>	<p style="text-align: center;"><u>Total number of conventional transit passenger trips in service area in a year</u> Population of service area</p>
<p style="text-align: center;">\$00.00 per regular service passenger trip</p>	<p style="text-align: center;">0 trips per capita</p>
<p><i>Efficiency Measure</i> <i>Operating costs for conventional transit per regular service passenger trip.</i></p> <p><i>Objective</i> <i>Efficient municipal transit services.</i></p>	<p><i>Effectiveness Measure</i> <i>Number of conventional transit passenger trips per person in the service area in a year.</i></p> <p><i>Objective</i> <i>Maximum utilization of municipal transit services.</i></p>
<p>Notes</p> <p style="text-align: center;">N/A</p>	<p>Notes</p> <p style="text-align: center;">N/A</p>

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Wastewater

12a. OPERATING COSTS FOR COLLECTION	12b. OPERATING COSTS FOR TREATMENT AND DISPOSAL
<p style="text-align: center;"><u>Operating costs for collection of wastewater</u> Total kilometres of wastewater main</p>	<p style="text-align: center;"><u>Operating costs for treatment and disposal of wastewater</u> Total megalitres of wastewater treated</p>
\$1,606.25 per kilometre of main	\$376.13 per megalitre
<p>Efficiency Measure <i>Operating costs for the collection of wastewater per kilometre of wastewater main.</i></p> <p>Objective <i>Efficient wastewater collection services.</i></p>	<p>Efficiency Measure <i>Operating costs for the treatment and disposal of wastewater per megalitre.</i></p> <p><i>A megalitre equals 1,000,000 litres or 1,000 cubic metres.</i></p> <p>Objective <i>Efficient water treatment and disposal services.</i></p>
<p>Notes</p> <p>Wastewater services are purchased from the Region of York.</p> <p>The City is responsible for sewage collection from the street line to the trunk sewer. York Region is responsible for trunk sanitary sewage conveyance from municipalities to the water pollution control plants.</p> <p>Operating costs include inspections; pump repairs, flushing and cleaning, blockage removal, flow monitoring and general maintenance.</p> <p>The City currently maintains 1,138 km of sewer lines.</p>	<p>Notes</p> <p>The City currently pays the Region of York for treatment and disposal of sewage.</p>

Wastewater

12c. OPERATING COSTS FOR COLLECTION TREATMENT AND DISPOSAL	13. MAIN BACKUPS
<p><u>Operating costs for wastewater collection, treatment and disposal</u> Total megalitres of wastewater treated</p>	<p><u>Total number of backed up wastewater mains</u> Total kilometres of wastewater mains /100</p>
<p>\$00.00 per megalitre</p>	<p>0 per 100 kilometres of main</p>
<p>Efficiency Measure <i>Operating costs for collection, treatment, and disposal of wastewater per megalitre.</i></p> <p><i>A megalitre equals 1,000,000 litres or 1,000 cubic metres.</i></p> <p>Objective <i>Efficient wastewater services.</i></p>	<p>Effectiveness Measure <i>Number of wastewater main backups per 100 kilometres of wastewater main in a year.</i></p> <p>Objective <i>Prevention of human and environmental health hazards.</i></p>
<p>Notes</p> <p style="text-align: center;">N/A</p>	<p>Notes</p> <p>The City maintains 1,138 km of wastewater main.</p> <p>The City experiences periodic sewer backups. However, most do not enter private properties.</p> <p>The usual causes of sewer backups are from blockages caused by cooking oils, construction debris and improperly disposed wastes.</p>

Wastewater

14. TREATMENT BYPASS

$$\frac{\text{Estimated megalitres of untreated wastewater}}{\text{Total megalitres of wastewater, including treated and untreated}} \times 100$$

0.0% of wastewater

Effectiveness Measures

Percentage of wastewater estimated to have by-passed treatment.

A megalitre equals 1,000,000 litres or 1,000 cubic metres.

Objective

Effective wastewater and treatment and disposal services.

Notes

N/A

Water Services

15a. OPERATING COSTS FOR TREATMENT	15b. OPERATING COSTS FOR DISTRIBUTION
<p style="text-align: center;"><u>Operating costs for treatment of water</u> Total megalitres treated</p>	<p style="text-align: center;"><u>Operating costs for distribution of water</u> Total kilometres of distribution pipe</p>
<p style="text-align: center;">\$412.82 per megalitre</p>	<p style="text-align: center;">\$3,075.81 per kilometre of distribution pipe</p>
<p>Efficiency Measure <i>Operating costs for the treatment of water per megalitre.</i></p> <p><i>A megalitre equals 1,000,000 litres, or 1,000 cubic metres.</i></p> <p>Objective <i>Efficient production of potable water.</i></p>	<p>Efficiency Measure <i>Operating costs for the distribution of water per kilometre of water distribution pipe.</i></p> <p>Objective <i>Efficient distribution of water.</i></p>
<p>Notes</p> <p>Treated water is purchased from the Region of York.</p> <p>The City currently purchases water from York Region at a fixed rate of \$0.414 per cubic meter.</p> <p>In 2001, the City purchased 36.6 million cubic meters of treated water from the Region of York.</p>	<p>Notes</p> <p>Operating costs include booster pumping station maintenance, inspections, repair of water mains, pumps, valves, chambers and hydrants, chlorine and bacterial sampling, and water meter repairs.</p> <p>The City currently has 871 km of distribution pipes to maintain.</p>

Water Services

16. BREAKS IN WATER MAINS	17. BOIL WATER ADVISORIES
$\frac{\text{Number of breaks in water mains}}{\text{Total kilometres of water main pipe}} / 100$	$\frac{\text{Summation of: number of boil water advisory days} \times \text{the number of affected connections}}{\text{Total connections in service area}}$
<p>0.35 breaks per 100 kilometres of main</p>	<p>0.0 days a year</p>
<p>Effectiveness Measure <i>Number of breaks in water mains per 100 kilometres of water main pipe in a year.</i></p> <p>Objective <i>Improve system reliability and minimize water loss and operational costs.</i></p>	<p>Effectiveness Measure <i>Weighted number of days when a boil water advisory issued by the Medical Officer of Health, applicable to a municipal water supply, was in effect.</i></p> <p>Objective <i>Water is safe and meets local needs.</i></p>
<p>Notes</p> <p>The City maintains 871 km of water main.</p> <p>The City experiences water main breaks each year caused by many factors including, aging of pipes and fittings, frost and construction damages.</p> <p>In 2001, there were 55 reported water main breaks.</p>	<p>Notes</p> <p>The quality of water within the City meets or exceeds the Ministry of Environment's regulations. There were 0 incidents of boil water advisory.</p>

Solid Waste

18a. OPERATING COSTS FOR COLLECTION	18b. OPERATING COSTS FOR DISPOSAL
<p><u>Operating costs for solid waste collection</u> Total tonnes received from all property classes OR total households</p>	<p><u>Operating costs for solid waste disposal</u> Total tonnes disposed from all property classes OR total households</p>
\$58.25 per tonne	\$54.35 per tonne
<p>Efficiency Measure <i>Operating costs for garbage collection per tonne or per household.</i></p> <p>Objective <i>Efficient collection services without adverse affect on environment.</i></p>	<p>Efficiency Measure <i>Operating costs for garbage disposal per tonne or per household.</i></p> <p>Objective <i>Efficient disposal of solid waste.</i></p>
<p>Notes</p> <p>The City currently collects waste from 56,748 households, 33 multi-unit dwellings, some commercial and industrial units and bus shelters. The City offers twice a week garbage pick up from May to September and once a week for the balance of the year.</p> <p>The City collected 63,575 tonnes of solid waste and 6,887 tonnes of recycling material in 2001.</p>	<p>Notes</p> <p>The waste disposal tipping fee charged at the Keele Valley Landfill site is included in the solid waste operating costs in 18a. The cost of disposal is reduced by tipping fee revenue received from the Region of York and a rebate from the City of Toronto as a result of the landfill site being located within the City boundary.</p>

Solid Waste

19. OPERATING COSTS FOR DIVERSION

Operating costs for solid waste diversion
Total tonnes diverted OR total households

\$262.29 per tonne or household

Efficiency Measure

Operating costs for solid waste diversion (recycling) per tonne or per household.

Objective

Waste programs divert garbage from landfills and incinerators.

Notes

The City contracts out the pick up of recycled materials (curbside blue box). Additionally, the City generates revenue from the sale of recycled materials.

Therefore, this measure represents the net cost per tonne of recycled materials.

Total tons of residential solid waste diverted for recycling in a year:

Residential recycled materials are from the following sources:

- Christmas trees, leaves and yard materials
- White goods/appliances
- Blue box materials (glass, fibers, metal, plastic)

Solid Waste

21a. FACILITY COMPLIANCE	21b. NUMBER OF SOLID WASTE MANAGEMENT SITES	22. COMPLAINTS FOR SOLID WASTE AND RECYCLING COLLECTION
Total number of days per year MOE compliance order was in effect	Total number of waste management sites	Number of Complaints Total Households / 1,000
0 days	1 sites	30.7 complaints per 1,000 households
<p>Effectiveness Measure Number of days per year when a Ministry of Environment compliance order for remediation concerning an air or groundwater standard was in effect for a solid waste management facility, by site.</p> <p>Objective Municipal solid waste services do not have an adverse affect on environment.</p>	<p>Effectiveness Measure Total number of solid waste management sites owned by municipality.</p> <p>Objective Effective management of solid waste.</p>	<p>Effectiveness Measure Number of complaints received in a year concerning the collection of solid waste and recycled materials per 1,000 households.</p> <p>Objective Effective waste management services.</p>
<p>Notes</p> <p>The City does not own or operate any landfill site within its jurisdiction. The Keele Valley Lanfill site is owned and operated by the City of Toronto. Therefore, the City does not keep track of this measure.</p>	<p>Notes</p> <p>This site is closed.</p>	<p>Notes</p> <p>For the purposes of this measure, a complaint is defined as anything that required investigation and/or resolution by City staff. Most complaints are regarding missed garbage pick-up that often is the result of waste not being placed out for collection on time.</p> <p>The City received 1,740 complaints in 2001.</p>

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Solid Waste

23a. DIVERSION OF SOLID WASTE	23b. DIVERSION OF SOLID WASTE (RESIDENTIAL AND OTHER)
$\frac{\text{Total tonnes of residential waste diverted}}{\text{Total tonnes of residential solid waste disposed of and total tonnes diverted}} \times 100$	$\frac{\text{Total tonnes of solid waste diverted from all property classes}}{\text{Total tonnes of solid waste disposed of and total tonnes diverted from all property classes}} \times 100$
9.9% of solid waste	0.0% of solid waste
<p>Effectiveness Measure <i>Percentage of residential solid waste diverted.</i></p> <p>Objective <i>Municipal waste programs divert garbage from landfills and incinerators.</i></p>	<p>Effectiveness Measure <i>Percentage of residential solid waste diverted (based on combined residential, industrial, commercial and institutional tonnage).</i></p> <p>Objective <i>Municipal waste programs divert garbage from landfills and incinerators.</i></p>
<p>Notes</p> <p>This measure does not take into account 1,784 tons of industrial, commercial and institutional recyclable materials, the City currently collects.</p> <p>The City provides recycling pickups to some commercial and industrial properties (33 condominiums, 25 schools, daycares and senior residences).</p>	<p>Notes</p> <p>N/A</p>

Land Use Planning

24. GROWTH AND SETTLEMENT PATTERN
$\frac{\text{Number of new lots, blocks and / or units with final approval which are located within the settlement area}}{\text{Total number of new lots, blocks and / or units with final approval within entire municipality}} \times 100$
100.0% of new development
<p>Effectiveness Measure <i>Percentage of new development with final approval which is located within settlement areas.</i></p> <p>Objective <i>New lot creation is occurring in settlement areas.</i></p>
<p>Notes</p> <p>This factor includes only lots created by subdivision registration and consent, but not by draft approval of a subdivision.</p> <p>Percentage of new lots, blocks and/or units approved which are located in settlement areas:</p> <p>Settlement area is defined as “Those lands within approved Urban Areas, Towns and Villages as defined in the Region of York’s Official Plan and Hamlets or Urban Fringe as defined in a local municipal plan. Where a local plan provides clearly identified boundaries of a Town, Village or Hamlet, the local plan shall be used. An estate residential subdivision outside an Urban Area, Town, Village or Hamlet is not a settlement area.”</p> <p>New lots, blocks and/or units approved were determined as number created by registered plan of subdivision or condominium or through the granting of provisional consent.</p> <p>Number of new lots, blocks and/or units approved which are located in settlement areas:</p> <p>In 2001, 2,575 new lots, blocks and/or units were approved, of which 2,575 were located within settlement areas.</p>

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Land Use Planning

25a. PRESERVATION OF AGRICULTURAL LAND IN REPORTING YEAR	25b. CHANGE IN NUMBER OF DESIGNATED HECTARES IN REPORTING YEAR
<p>Hectares of land designated for agricultural purposes <u>in the Official Plan as of December 31, 2001</u> X100 Hectares of land designated for agricultural purposes in the Official Plan as of January 1, 2001</p>	<p>Number of hectares of land originally designated for agricultural purposes which was re-designated for other uses during 2001.</p>
77.41% of agricultural land (reporting year)	1,024 hectares
<p>Effectiveness Measure Percentage of land designated for agricultural purposes which was preserved during 2001.</p> <p>Objective Preserve agricultural land.</p>	<p>Effectiveness Measure Number of hectares of land originally designated for agricultural purposes which was re-designated for other uses during 2001.</p> <p>Objective Preserve agricultural land.</p>
<p>Notes</p> <p>Percentage of designated agricultural land preserved during the year:</p> <p>Designated Agricultural Land is defined as “All lands designated Agricultural, or similar designation, in a local official plan and Holland Marsh Area on Map 6 of the Region of York Official Plan.”</p>	<p>Notes</p>

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Land Use Planning

25c. AGRICULTURAL LAND RELATIVE TO BASE YEAR	25d. REDESIGNATED AGRICULTURAL LAND
<p>Hectares of land designated for agricultural purposes in the Official Plan as of December 31, 2001 X100 Hectares of land designated for agricultural purposes in the Official Plan as of January 1, 2000</p>	<p>Number of hectares of land originally designated for agricultural purposes which was re-designated for other uses relative to base year.</p>
<p>77.19% of agricultural land (relative to base year)</p>	<p>1,024 hectares</p>
<p>Effectiveness Measure Percentage of land designated for agricultural purposes which was preserved relative to base year of 2000.</p> <p>Objective Preserve agricultural land.</p>	<p>Effectiveness Measure Number of hectares of land originally designated for agricultural purposes which was re-designated for other uses since January 1, 2000.</p> <p>Objective Preserve agricultural land.</p>
<p>Notes</p>	<p>Notes</p>