

City of Markham

Appendix A

Theme	Indicator		Description	Value			Sourced	Source
	Core	Supporting		2020	2019	2018	By	
Economy	5.1		City's unemployment rate	NA	6.0%	6.2%	WCCD	Statistics Canada
		5.2	Assessed value of commercial and industrial properties as a % of total assessed value of all properties	12.6%	12.6%	12.8%	Finance	Markham Financial Information Return
		5.3	% of persons in full employment	NA	82.7%	83.1%	WCCD	Statistics Canada
		5.4	Youth unemployment rate	NA	12.8%	12.6%	WCCD	Statistics Canada
		5.5	Number of business per 100k Population	3,086.1	3,106.0	3,094.2	Eco. Dev	Markham Profile Document
		5.6	Number of new patents per 100k population	95.9	99.7	89.6	WCCD	United States Patent and Trademark Office
		5.7	Annual number of visitor stays (overnight) per 100k population	22,473.7	115,045.8	130,673.0	Eco. Dev	Ontario Central Counties Tourism, Ministry of Tourism
		5.8	Commercial air connectivity (number of non stop commercial air destinations)	160,592.0	341,103.0	345,011.0	WCCD	Statistics Canada
Education	6.1		% of female school aged population enrolled in schools	100%	100%	99.5%	WCCD	Ministry of Education, Ontario
	6.2		% of students completing primary education survival rate	100%	100%	100%	WCCD	Ministry of Education, Ontario
	6.3		% of students completing secondary education survival rate	93.2%	92.6%	93.1%	WCCD	Ministry of Education, Ontario
	6.4		Primary education students/teacher ratio	15.8	15.6	15.7	WCCD	Ministry of Education, Ontario
		6.5	% of school aged population enrolled in schools	100%	100%	99.9%	WCCD	Ministry of Education, Ontario
		6.6	Number of higher education degrees per 100k population	47,159.9	47,159.9	47,159.9	WCCD	Statistics Canada
Energy	7.1		Total end use energy consumption per capita (GJ/year)	95.8	92.9	95.0	SAM	Alectra and Enbridge
	7.2		% of total end use derived from renewable sources	8.40%	8.00%	32.5%	SAM	Independent Electricity System Operator (Ontario)
	7.3		% of city population with authorized electrical service	100%	99.1%	99.3%	SAM	Alectra Utilities
	7.4		Number of gas distribution service connections per 100k population	81,845.1	81,991	81,222	SAM	Enbridge Gas
		7.5	Final energy consumption of public buildings per year (GJ/Cu.M)	1.08	1.42	1.86	SAM	SAM & Finance
		7.6	Electricity consumption of public street lighting per km of lighted street (kwh/year)	10,626.2	10,595.4	12,500.4	Operations	Alectra Utilities and Operations Department
		7.7	Average annual number of electrical service interruptions per household (in hours)	NA	Not Reporting	Not reporting	Operations	
Environment	8.1		Fine particulate matter (PM 2.5) concentration (microgram/m³)	6.8	7.6	7.35	WCCD	Ministry of the Environment
	8.2		Particulate matter (PM 10) concentration	Not reporting	Not reporting	Not reporting	WCCD	
	8.3		GHG emissions measured in tonnes per capita	5.7	5.7	5.7	SAM	City of Markham Municipal Energy Plan
		8.4	% of areas designated for natural protection	32.4%	32.4%	32.4%	Policy & Research	CoM Official Plan Greenway System Map
		8.5	Nitrogen dioxide (NO2) concentration (microgram/m³)	20.1	19.5	19.7	WCCD	Ministry of the Environment
		8.6	Sulphur dioxide (SO2) concentration (microgram/m³)	0.4	0.7	1.2	WCCD	Ministry of the Environment
		8.7	Ozone concentration (microgram/m3)	48.2	51.0	48.3	WCCD	Ministry of the Environment
		8.8	Noise pollution	NA	Not reporting	Not reporting	WCCD	
		8.9	% change in number of native species	NA	Not reporting	Not reporting	WCCD	
Finance	9.1		Debt Service Ratio	0.1%	0.1%	0.1%	Finance	Markham Financial Information Return
		9.2	Capital spending as a % of total expenditures	15.8%	24.7%	13.7%	Finance	Markham Financial Information Return
		9.3	Own source revenues as a % of total revenue	84.6%	89.2%	75.0%	Finance	Markham Financial Information Return
		9.4	Tax collected as a % of tax billed	98.6%	99.9%	100%	Finance	Markham Financial Information Return
Governance	10.1		Women as a % of total elected to city-level office	23.1%	23.1%	23.1%	Clerks	City of Markham Website
		10.2	# of convictions for corruption and/or bribery by city officials per 100k population	0	0	0	City	Clerks and HR Department

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	Core	Supporting		2020	2019	2018	By	
Health		10.3	Number of registered voters as a % of the voting age population	Not reporting	Not reporting	Not reporting	City	
		10.4	Voter participation in last municipal election (as a % of total voters)	38.3%	38.3%	38.3%	Clerks	Clerks Department
	11.1		Average life expectancy (years)	85.7	85.7	85.5	Policy & Research	York Region Seniors Strategy Report/ YR Health
	11.2		Number of in patient hospital beds per 100k population	117.0	111.5	104.3	WCCD	Canadian Institute for Health Information
	11.3		Number of physicians per 100k population	145.6	142.0	141.1	WCCD	Canadian Institute for Health Information
	11.4		Under age five mortality per 1,000 live births	NA	2.0	2.0	WCCD	Statistics Canada
Housing		11.5	Number of nursing and midwifery personnel per 100k population	704.9	679.6	644.2	WCCD	Canadian Institute for Health Information
		11.6	Suicide rate per 100k population	3.72	4.32	5.7	WCCD	Ontario Chief Coroner's Office
	12.1		% of city population living in inadequate housing	NA	14.8%	14.8%	WCCD	Statistics Canada
	12.2		% of population living in affordable housing	65.7%	65.7%	27.4%	WCCD	Statistics Canada
		12.3	Number of homeless per 100k population	34.8	34.8	34.8	Policy & Research	icount: York Region 2018 Homeless Count Report
		12.4	% of households that exist without registered legal titles	Not Reporting	Not reporting	Not reporting	WCCD	
Population & Social Conditions								
	13.1		% of city population living below international poverty line	0	0%	0%	WCCD	Assumed for all Canadian cities
		13.2	% of city population living below the national poverty line	15.1%	15.1%	15.1%	WCCD	Statistics Canada
		13.3	Gini coefficient of inequality	NA	0.4	0.41	WCCD	Calculated by WCCD analysts from Statistics Canada figures
Recreation								
		14.1	Sq. m of public indoor recreation space per capita	0.3	0.3	0.3	Recreation	Recreation
		14.2	Sq. m of public outdoor recreation space per capita	13.0	12.9	12.8	Recreation	Recreation
Safety								
	15.1		Number of firefighters per 100k population	68.3	68.8	69.1	Fire	Fire & Emergency Services
	15.2		Number of fire related deaths per 100k population	0.6	0.3	0.6	Fire	Fire & Emergency Services
	15.3		Number of natural hazard related deaths per 100k population	NA	0	0	WCCD	Statistics Canada
	15.4		Number of police officers per 100k population	138.5	134.0	130.7	WCCD	Statistics Canada
	15.5		Number of homicides per 100k population	0.8	1.4	0.9	WCCD	Statistics Canada
		15.6	Number of volunteer and part-time firefighters per 100k population	0	0	0	Finance	Markham Financial Information Return
		15.7	Response time for emergency response services from initial call (minutes and seconds)	7.7	7.8	9.7	WCCD	Ministry of Health and Long-Term Care Land Ambulance Program (Ambulance and Fire Only)
		15.8	Crime against property per 100k population	1,554.6	1,839.3	1,674.8	WCCD	Statistics Canada
Solid Waste		15.9	Number of deaths caused by industrial accidents per 100k	NA	Not reporting	Not reporting	WCCD	Statistics Canada
		15.10	Number of violent crime against women per 100k population	338.1	335.7	308.9	WCCD	Statistics Canada
	16.1		% of city population with regular waste collection (residential)	98.6%	98.6%	98.6%	Env. Svcs	Curbside Collection data
	16.2		Total municipal solid waste tonnes produced per capita	0.3	0.29	0.24	Env. Svcs	Curbside Collection data
	16.3		% of the city's solid waste that is recycled	26.6%	31.7%	31.1%	Env. Svcs	Curbside Collection data
	16.4		% of city's solid waste that is disposed of in a sanitary landfill	3.3%	2.6%	2.5%	Env. Svcs	Contractor data, YR Annual Solid Waste Diversion Report
	16.5		% of solid waste that is treated in energy from waste plants	17.9%	15.7%	15.6%	Env. Svcs	Contractor data, YR Annual Solid Waste Diversion Report
		16.6	% of city's solid waste that is biologically treated and used as compost or biogas	52.3%	49.6%	50.8%	Env. Svcs	Contractor data, YR Annual Solid Waste Report

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	Core	Supporting		2020	2019	2018	By	
Sports & Culture		16.7	% of city's solid waste that is disposed of in an open dump	0.0%	0%	0%	Env. Svcs	Waste Department
		16.8	% of city's solid waste that is disposed of by other means	0.0%	0%	0%	Env. Svcs	Waste Department
		16.9	Hazardous waste generation per capita (tonnes)	Not Reporting	Not reporting	0	Env. Svcs	
		16.10	% of city's hazardous waste that is recycled	Not Reporting	Not reporting	76%	Env. Svcs	
	17.1		Number of cultural institutions and sporting facilities per 100k population	124.4	159.9	157.3	Culture	ILMP, Markham Business Directory, YR School Boards, Heritage
		17.2	% of municipal budget allocated to cultural and sporting facilities	17.2%	18.6%	20.4%	Finance	Markham Financial Information Return
		17.3	Annual number of cultural events per 100k population (e.g. exhibitions, festivals, conc	0	24.4	Not reporting	Corp. Comm	Events Calendar
Telecommunication s		18.1	Number of internet connections per 100k population	175,363.9	175,363.9	163,493.7	WCCD	CRTC and Statistics Canada
		18.2	Number of mobile connections per 100k population	91,800.0	91,800.0	90,600.0	WCCD	CRTC and Statistics Canada
Transportation								
	19.1		Km of public transport system per 100k population	172.0	275.0	277.0	Engineering	ESRI's ArcGIS Hub 2019 YRT/VIVA & GO service maps
	19.2		Annual number of public transport trips per capita	51.0	51.3	48.0	Engineering	Transportation Survey
		19.3	% of commuters using a travel mode to work other than a personal vehicle	14.0%	14.0%	14.0%	Engineering	Transportation Survey
		19.4	Km of bicycle paths and lanes per 100k population	56.0	53.6	56.5	Engineering	City Cycling Map
		19.5	Transportation deaths per 100k population	0.6	1.4	1.4	Engineering	Motor Vehicle Collision Records
		19.6	% of population living within 0.5km of public transit running at least every 20 min dur	15.3%	63.6%	63.0%	Engineering	Engineering
Urban/local agricultu		19.7	Average commute time (in minutes)	NA	Not Reporting	37.0	WCCD	
	20.1		Total urban agricultural area per 100k population Planning	1,591.8	1,602.0	1,610.8	Policy & Research	CoM Official Plan - Country side Agriculture Area
		20.2	Amount of food produced locally as a % of total food supplied to the City	NA	Not reporting	2%	WCCD	Ontario Ministry of Agriculture, Food, and Rural Affairs
		20.3	% of city population undernourished	Not Reporting	Not reporting	Not reporting	WCCD	
Urban Planning		20.4	% of city population that is overweight or obese – Body Mass Index (BMI)	47.5%	47.5%	39.6%	WCCD	Statistics Canada
	21.1		Green area (hectares) per 100k population	1,373.8	1,404.3	1,386.8	Policy & Research	CoM Official Plan, Parks and Open Space inventory etc.,
		21.2	Area size of informal settlements as a % of city area	Not Reporting	Not reporting	Not reporting	WCCD	
		21.3	Jobs/housing ratio	1.5	1.5	Not reporting	WCCD	Statistics Canada - 2016 Census
Wastewater		21.4	Basic service proximity	97.6%	97.6%	34.5%	Policy & Research	GIS layers
	22.1		% of city population served by wastewater collection	98.7%	98.7%	98.6%	Env. Svcs	Alectra Billing, Watermain System map
	22.2		% of city's wastewater receiving centralized treatment	100.0%	100%	100%	Env. Svcs	Region of York Confirmation
	22.3		% of population with access to improved sanitation	99.9%	99.9%	100%	Env. Svcs	Environmental Services
Water		22.4	Compliance rate of wastewater treatment	100%	100%	100%	Env. Svcs	Duffin Creek Water Pollution Control Plant - Annual Performance Report
	23.1		% of city population with potable water supply service	99.2%	99.2%	99.2%	Env. Svcs	Watermain System Maps
	23.2		% of city population with sustainable access to an improved water source	100%	100%	100%	Env. Svcs	Environmental Services
	23.3		Total domestic water consumption per capita (litres/day)	206.0	182.0	186.0	Env. Svcs	Alectra Billing records
	23.4		Compliance rate of drinking water quality	99.8%	99.9%	99.9%	Env. Svcs	Council report
		23.5	Total water consumption per capita (litres/day)	240.4	234.8	235.4	Env. Svcs	Alectra Billing records
		23.6	Average annual hours of water service interruption per household	Not Reporting	Not reporting	Not reporting		
		23.7	% of water loss (unaccounted for water)	9.5%	10.1%	10.8%	Env. Svcs	York Region (Purchase) & Alectra Billing (Sales)

Theme	Indicator		Description	Value			Sourced	Source
	Core	Supporting		2020	2019	2018	By	

Legend

NA

Data not available at the time of reporting

Not Reporting

Data not available for reporting or data cannot be obtained