

Attachment 7: Inventory of City of Toronto activities to support pollinators

Current or Past Initiative	Key Division	Status Update and Future Plans
Recognition as the first Bee City in Canada	Environment and Energy	In April 2016 Toronto became the first Bee City in Canada. Renewed status in April 2017 & 2018. Annual renewal scheduled.
National Pollinator Week Celebrations A proclamation for Pollinator Week is issued annually by the City in the third week of June.	Environment and Energy, Transportation Services (Street Art Toronto)	June 2016: Mural installation at Bloor and Howland that showcases one of Toronto's native pollinators - the Green Sweat Bee. This was a Live Green Toronto initiative, in partnership with Burt's Bees and Street Art Toronto. Mural by Nick Sweetman. June 2017: Live Green Toronto and partner Burt's Bees created an eco-art installation to raise awareness of pollinator health issues. The piece was installed on Nathan Phillips Square from May 25 – June 25, 2017. Each use of the hashtag #KissesforBees on social media expanded the movement with the planting of wildflowers. June 2018: Celebration event planning underway.
Establishment of pollinator friendly habitat across the city, which engage local communities and provide educational opportunities through interpretive signage, community planting events, and tours.	Parks, Forestry & Recreation	Examples include: Humber Bay Butterfly Habitat, Don Valley Brickworks, The Franklin Children's garden, and High Park's Black Oak Savannah restoration areas. PFR / Horticulture staff are encouraged to add pollinator beds in their district. Currently, there are 15 existing gardens at the following locations: Everett Park, Beaches Park, Cherry Beach, Jonathon Ashbridges Park, Kew Gardens, Leslie Street Allotment Gardens, Woodbine Beach Park, Woodbine Park, Earls court, Bartlett, Garrison Creek, Frankel Lambert. Future locations: Ashbridges Bay, Edithvale, Jennifer Katerina Kolval's'kyi Park, Cherry Beach Sports fields, City Hall – Nathan Phillips Square Demonstration Garden.
Updates to the Toronto Green Standard (TGS) to support pollinator habitat creation.	City Planning	Update to the TGS include the following: - new requirements for City facilities to provide biodiverse green roofs for roof areas under 8 storeys - expanded options for Tier 2 projects to encourage pollinator friendly planting at-grade and on green roofs - increased requirements for native species for nat. heritage areas - enhanced references to biodiverse green roof guidelines and pollinator planting resources - specifications on the minimum criteria for biodiverse green roofs
The City's Biodiversity Series - "Bees of Toronto" and "Butterflies of Toronto"	City Planning	To date, the City has printed and distributed over 120,000 individual copies of the Biodiversity Series. The City is currently in the process of revising "Birds of Toronto".
Habitat restoration through our Community Stewardship program which engages community volunteers in	Parks, Forestry & Recreation	Rowntree Mills Butterfly Planting - June, 2016 - Public planting event where volunteers planted 500 wildflowers and shrubs that attract pollinators.

Current or Past Initiative	Key Division	Status Update and Future Plans
planting native species and the ongoing maintenance and management of the watersheds across the city.		<p>Humber Bay Butterfly Habitat Community Stewardship Program - The site features two wetland meadows, an upland meadow, a short-grass prairie and a home garden. It has been designed to provide food and shelter for butterflies, birds and other insects. Volunteer stewards planted over 450 pollinator friendly wildflowers and plants in 2016.</p> <p>Humber Bay Bumble Bee Watch - Bumble Bee Watch is a citizen science initiative to record bumble bee sightings around the world. We've asked volunteers to participate by photographing any bees they see and uploading their photos to the citizen science website: http://www.bumblebeewatch.org/contents/</p> <p>Milkweed Plantings - Community Stewardship Program teams plant milkweed at various stewardship sites with volunteers.</p> <p>Volunteer Naturalization Plantings - Volunteers plant approximately 15,000 trees and shrubs each year working to achieve Toronto's Urban Forestry's Canopy Cover goal. This also increases pollinator habitat.</p>
Urban Forestry planting – naturalization planting	Parks, Forestry & Recreation	<p>URF plants over 100 000 trees and shrubs per year by internal and contracted staff. UFR staff also plant 1000's of native herbaceous wildflowers each year in various natural area locations.</p> <p>These trees and shrubs are planted through naturalization planting programs in our natural areas and through other planting programs that focus on planting in parks, streets, transportation right-of-ways and other open spaces.</p>
The Children's Eco Programs provide fun, hands-on opportunities for children and youth. We offer curriculum-based garden and nature spring/fall programs and feature eco camps, garden drop-ins, cooking programs, pollinator education and a host of other innovative and unique environmental programs year-round in High Park, the Children's Garden and Teaching Kitchen and along 7 of Toronto's Discovery Walk trails.	Parks, Forestry & Recreation	<p>Children's Eco Program Expansion: The expansion was launched to meet the growing interest in children's gardens and environmental programs and increase the use, enjoyment and public stewardship of the City's parks and ravines system.</p> <p>In 2017 the Program achieved the following:</p> <ul style="list-style-type: none"> • Supported 25 Community Recreation locations to provide garden and/or nature programming through camps and registered and drop-in programs. • Provided plant material and site support to 20 Children or Youth Gardens connected to Community Recreation Facilities with a primary focus on vegetable production. • Provided nature and garden training to over 115 Part-time Recreation staff. • Engaged 160 volunteers • The Franklin Children's Garden welcomed close to 40,000 visitors between June and September. • Thanks to Franklin the Turtle Mascot, in partnership with the Toronto Public Library's Storytime Program, over 600 participants received Discovery Backpacks with interactive

Current or Past Initiative	Key Division	Status Update and Future Plans
		<p>pollinator-friendly resources to be used around the Certified Pollination Station at Franklin Children's Garden on Toronto Island Park.</p>
<p>The Horticulture Program of Excellence provides ongoing staff training in pollinator friendly planting and ways to increase native plantings in City parks.</p>	<p>Parks, Forestry & Recreation</p>	<p>Session 1: "Pollinators in our Parks" - 160 staff attended Session 2: "Xeriscaping" - 150 staff attended Session 3: "Design Concepts" - 150 staff attended Session 4: "Proper Gardening & Pruning Techniques" - June 2018 Session 5: "Soils & Integrated Plant Health Care (IPHC)" - Fall 2018</p>
<p>Public education on the importance of pollinators and promotion of native plantings to residents through the outreach efforts of Live Green Toronto.</p>	<p>Environment and Energy</p>	<p>In partnership with the Toronto Public Library, Live Green Toronto supports workshops on pollinators, gardening, local food, etc.</p> <p>Live Green Programs for Fragile Planet 2017:</p> <ol style="list-style-type: none"> 1. April 1, 2017: 2-3 pm at Scarborough Civic Centre 2. May 11, 2017: 7-8 pm at Queen/Saulter 3. May 16, 2017: 7-8 pm at York Woods 4. May 20, 2017: 2-3 pm at Downsview 5. June 15, 2017: 7-8 pm at Northern District <p>Live Green Programs for Fragile Planet 2018:</p> <ol style="list-style-type: none"> 1. April 18, 2018: 7-8 pm at High Park Library 2. April 25, 2018: 7-8 pm at Beaches Library 3. May 7, 2018: 7-8 pm at Toronto Reference Library 4. June 19, 2018: 6:30 – 7:30 pm at S Walter Stewart Library <p>Parks, Forestry & Recreation are currently presenting at garden clubs and horticulture societies at their monthly meetings.</p>
<p>Natural garden inspections</p>	<p>Parks, Forestry & Recreation</p>	<p>Pollinator friendly plant lists have been added to handouts for homeowners to encourage the creation of pollinator habitat.</p>
<p>City of Toronto Garden Awards program.</p>	<p>Parks, Forestry & Recreation</p>	<p>This program continues to recognize environmentally responsible gardens including the use of native plant material and the creation of pollinator habitat. A new category was added in 2017: "Pollinator Garden".</p>
<p>Naturalization of the Scarborough Centre Butterfly Trail</p>	<p>Toronto and Region Conservation, Parks, Forestry & Recreation</p>	<p>The project is managed by the TRCA through a funding contribution from the W. Garfield Weston Foundation. The Scarborough Centre Butterfly Trail has brought together a diverse set of partners and local community members to plant a 40 hectare native wildflower pollinator habitat.</p> <p>PFR is currently working with TRCA on expanding the butterfly meadow to a new 10 hectare section between Conlins Road and Meadowvale Ave. Installed 4 new plantings along the Green Line / Bee Line with Park People summer 2017.</p>

Current or Past Initiative	Key Division	Status Update and Future Plans
Ban of the use of cosmetic pesticides in 2003	Public Health	In 2003, Toronto was a leader in enacting a ban on the cosmetic use of pesticides, which in turn triggered a Provincial ban in 2009.
Green Streets is an approach to help manage storm water (rain and melted snow) where it falls, improve air quality, increase bio-diversity and enhance and beautify our public realm. A Green Street is a road or street that incorporates green infrastructure, which includes natural and human made elements such as trees, green walls and low impact development (LID) storm water infrastructure that provide ecological and hydrological functions and processes.	Transportation Services, Toronto Water, Engineering and Construction Services with support from City Planning and Parks, Forestry & Recreation	Green Streets demonstration projects have been designed to create high functioning landscapes that meet the Toronto Green Standard in the right-of-way and have informed the creation of the Green Streets Technical Guidelines. The Guidelines promote the integration of native herbaceous plants, shrubs and trees into a variety of green infrastructure options to promote pollinator habitat and enhance biodiversity as well as providing key linkages that connect existing pollinator habitats throughout the City. The Guidelines, provide guidance, standards and selection tools for the planning, design, integration and maintenance of a range of green infrastructure options appropriate for the city's street types and conditions. Building upon the success and lessons learned from completed demonstration projects, staff are working towards the creation of a Green Streets Implementation Strategy (target completion July 2018). Concurrently, new demonstration projects are underway for 2018 and 2019 implementation, which will be evaluated and monitored to further inform the City's long-term implementation strategy.
Guidelines for Biodiverse Green Roofs developed by City Planning.	City Planning	Guidelines for Biodiverse Green Roofs was released in 2013. It was developed as a “work in progress” and much has been learned since then in terms of biodiversity and pollinators in particular. There is an opportunity to revisit the document and bring it in line with current knowledge and thinking.
The Green Roof Bylaw – mandates green roofs on new construction. There are Green Roof Construction Standards which set out the minimum requirements for building a green roof in Toronto.	City Planning	Green roofs built with biodiversity in mind have the potential to serve as pollinator habitat. Ongoing application of the Green Roofs Bylaw, which came into effect in 2010 and requires green roofs on new residential, commercial, and institutional buildings greater than 2,000m ² . From 2010 to 2016, 400 new green roofs mandated by the Green Roofs Bylaw have been built or are in progress, covering an area of 346,000 m ² .
The Eco-Roof Incentive Program provides grants for the installation of green roofs on buildings in Toronto.	Environment and Energy	Since the program started in 2009, over 50 green roofs have been supported with over 20,000 m ² of green roof space created in the city. Program ongoing. Staff are investigating the potential to increase the incentive offered for green roofs that meet biodiversity criteria.
Community Engagement and Entrepreneurial Development (CEED) Gardens Program.	Social Development Finance and Administration	CEED gardens aim to support and provide residents with opportunities to develop urban agriculture and entrepreneurial skills by growing and selling produce. Two CEED gardens will be located in hydro corridors and be managed by community partners. The CEED Gardens approval process is underway.

Current or Past Initiative	Key Division	Status Update and Future Plans
Community Gardens Program	Parks, Forestry & Recreation	There are 78 community gardens in 32 wards in the City. The program continues to expand each year.
Allotment Gardens Program	Parks, Forestry & Recreation	<p>There are 13 allotment gardens in 12 wards with 1,684 plots. There is ~1,007,054 sq. ft. (~23 acres) of land devoted to allotment gardening of which 336,800 sq. ft. (~8 acres) is used for food production.</p> <p>The City has recently produced a "Grow More Manual" for community gardens / allotment gardens.</p>
Working with Toronto School Boards and other groups to provide educational workshops to children on the importance of pollinators.	Parks, Forestry & Recreation	PFR is currently working with the TDSB and the TCDSB to provide sessions in class and school gardens. This is a free program, geared towards grade 3 & 4 in which plants and habitat are covered in their curriculum.
Pollinator tours – Forestry's Natural Environment and Community Programs group	Parks, Forestry & Recreation	Pollinator tours are given every year by native bee experts. Free public pollinator tours are also as part of the Don Valley Brick Works Ambassador Program.
Tower Renewal support for a community garden refresh. The refresh included newly constructed raised garden beds, plants/vegetables, Fiskar gardening tools and in-kind staff support.	Social Development Finance and Administration (Tower Renewal)	The Tower Renewal Program in the Social Development, Finance and Administration Division worked with FISKARS corporation known for their garden tools and other consumer goods on June 1, 2017. With their support and that of other partners, Tower Renewal was able to advance the re-installation of a community garden surrounded by apartment towers. The not-for profit organization, Thorncliffe Neighbourhood Office were also partners in advancing the project. A section of the garden was also created to be pollinator friendly.
Pilot pollinator patch in Liberty Village and community pollinator garden on Keele Street	Public Realm	<p>The proposal is for the creation of a linear garden, measuring approximately 1,000sqm, at the back of 65-85 Liberty St. East, fronting the railway corridor. +/- \$35,000.00 as a component of much larger soil remediation project with total cost of \$ 354,000.00</p> <p>A community pollinator garden will be installed at 1652 Keele Street in 2017, of approximately +/- 100m sq. \$1,063.20</p> <p>Additional sites for the installation of pollinator gardens are being considered. We will be pursuing a number of other small scale community plantings with pollinator species in 2017. +/- \$ 20,000.00 Joint projects with Parks.</p>
Pollinator habitat on medians	Public Realm	A 6000m square centre median area of Allen Road has been identified for removal of grass cutting service in 2017. A pollinator native flower seed mix will be planted. \$53,000.00. Anticipated net cost saving in reduction of mowing activity.

Current or Past Initiative	Key Division	Status Update and Future Plans
		<p>Additional areas of the Gardiner Expressway West will be reviewed for removal of grass cutting service and installation of a pollinator seed mix in 2018. Cost To be confirmed. Anticipated net cost saving in reduction of mowing activity.</p> <p>The target of +/- 3000m sq. has been set for 2018.</p>
<p>Training session delivered by Pollinator Partnership on roadside management to Transportation Services staff.</p>	<p>Transportation Services</p>	<p>The first training session was delivered in November 2016. For 2018, additional sessions are being proposed for the Pollinator Partnership to present to operational staff. The training describes the mutual benefits and cost savings of introducing new pollinator areas to our existing grass cutting contract areas.</p>
<p>'Adopt-a-Street-Tree' Program – Pilot Project</p>	<p>Parks, Forestry & Recreation and City Planning</p>	<p>Pilot project with LEAF, and with funding from a TD Green Streets grant, to develop a program and guidance handbook for businesses and communities that wish to adopt street trees in their neighbourhood. The handbook includes recommendations for pollinator plants to plant at the base of trees.</p>
<p>Civic Improvements Capital Program</p>	<p>City Planning</p>	<p>This is City Planning's capital program, led by Civic Design in Urban Design. Projects are designed to include gardens with pollinator species wherever possible. Funding is approved by Council on a two-year basis, and projects are delivered by ECS, and sometimes PFR. For example, a large butterfly garden and pollinator plants were included in the Scarlett Road Bridge over the Humber River project, in 2012.</p>
<p>Green Lane Landfill Landscaping Plan</p>	<p>Solid Waste Management Services</p>	<p>The Green Lane Landfill Landscaping Plan was presented in March 2017. The Landscaping Plan will take a phased approach, and key elements will include applying pollinator-friendly seed mixes, and different models of pollinator boxes. The Landscaping Plan also identifies opportunities for community engagement.</p> <p>To date, pollinator friendly plantings have been implemented at both the Green Lane Administration Building and around the main site entrance.</p>