

## Preserving Biodiversity within our urban areas during a time of rapid development

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Biodiversity is the variety of species and ecosystems on earth and the ecological processes of which they are a part – including natural ecosystems, living species and other components that provide genetic diversity







































- **Biodiversity is disappearing**: Estimated that species are disappearing at 50-100 times the natural rate as a direct result of human activities (MetroVan, 2006).
- Surrey is a rapidly developing city: A certain portion of future build-out is already in motion (e.g., approved neighbourhood concept plans)
- Limited resources for conservation: The City has greatest control over publicly-owned land. It has some influence on private lands through regulatory tools (zoning), incentives and education.

The Challenge - How to maximize biodiversity within this context?





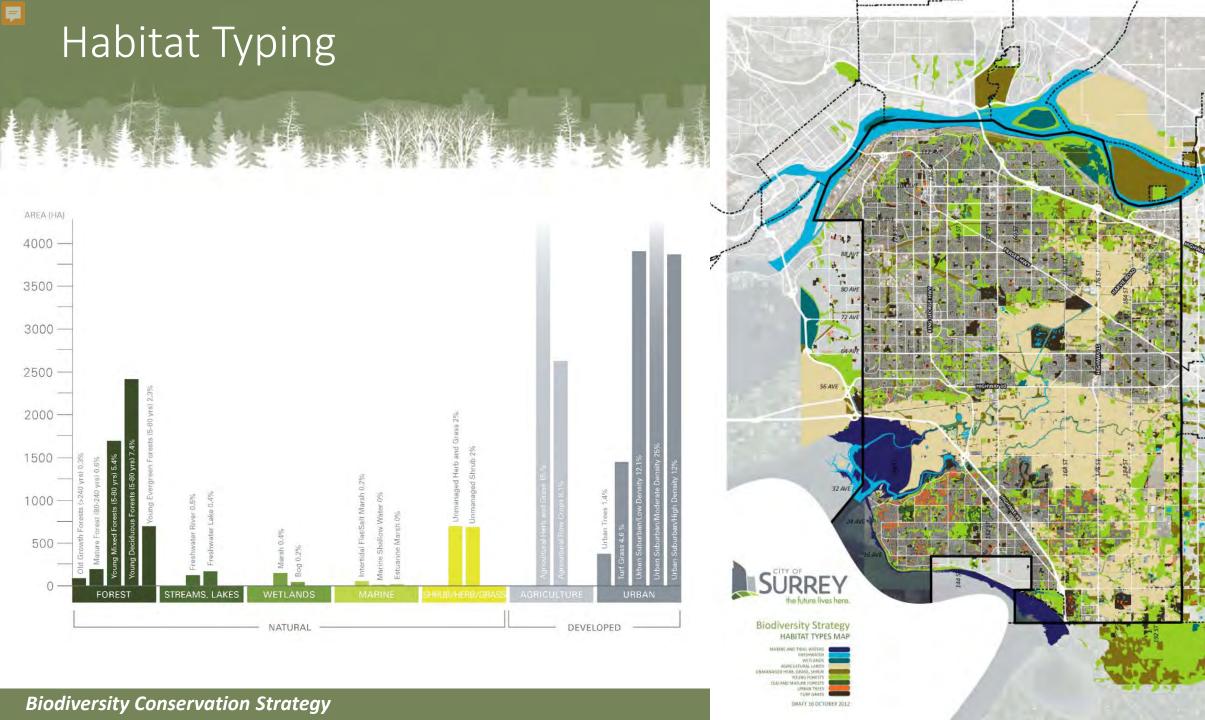










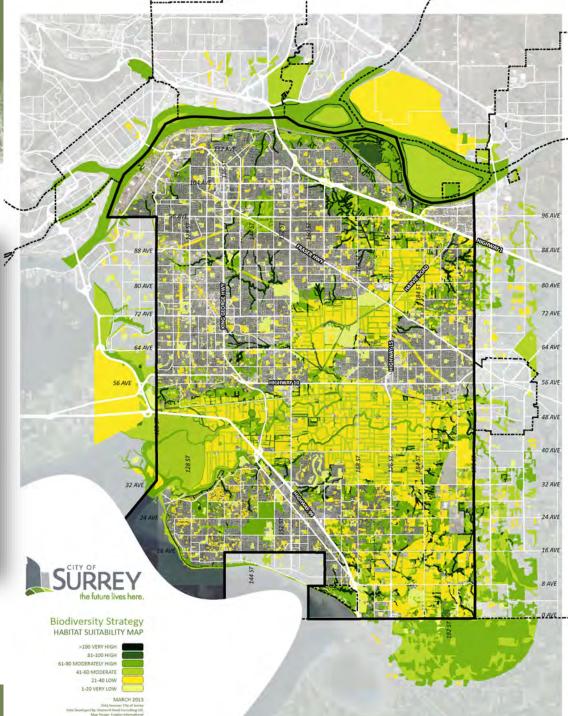




COMMON NAME	SCIENTIFIC NAME	STATUS	YOUNG DECIDUOUS FOREST	YOUNG MIXED FOREST	YOUNG EVERGREEN	MATURE FOREST	OLD GROWTH FOREST	UNMANAGED HERB AND GRASS*	UNMANAGED SHRUB	MARINE INTERTIDAL/ ESTUARINE MARSH	WETLAND MARSH	WETLAND BOG	FRESHWA LAKE/ PO DITCH
Ruby-crowned Kinglet	Regulus calendula	Υ	×	×	×	×	X-		×				
Swainson's Thrush	Catharus ustulatus	γ	X (B)	X (B)	(B)	X (B)	×		×	×			
Hermit Thrush	Catharus guttatus	Y	×	×	×	×	×			ж.			
American Robin	Turdus migratorius	A	×	×	×	×	х	×	×	×	*	×	
Varied Thrush	txoreus naevius	Ý	*	X-	×	*	×						
European Starling	Sturnus vulgaris	N	×	×				×.	×	×	×	×	
American Pipit	Anthus rubescens	Y						×		×			
Bohemian Waxwing	Bombycilla garrulus	Y	×	×					×				
Cedar Waxwing	Bombycilla cedrorum	Υ	×	×					×		×	×	
Orange-crowned Warbler	Vermivora celata	Y	×	×					×				
Yellow Warbler	Dendroica petechia	Y	×	*					×		×	×	
Yellow-rumped Warbler	Dendroica coronata	Ý.	×	×	×	x.	×		×				
Black-throated Gray Warbler	D. nigrescens	Y	x.	x		×	×				×	x	
Townsend's Warbler	Dendroica townsendi	Y		x	×	×	x						
MacGillivray's Warbler	Oporarnis talmiei	Y	×	×					×		*	×	
Common Yellowthroat	Geothlypis trichas	Y						×	×		X (B)	*	
Wilson's Warbler	Wilsonia pusilla	· Ÿ-	х	×					x	_			
Western Tanager	Piranga ludoviciana	Y	x	x	×	×	×		×				
Spotted Towhee	Pipilo maculatus	Y	X	×		X	х	×	X		×	×	
Savannah Sparrow	Passerculus sandwichensis	Y						X (B)	×				
Fox Sparrow	Passerella iliaca	Υ	×	×				×	X (W)	×	×	- X	
Song Sparrow	Melospiza melodia	γ	×	×		×	×	×	X	×	×	*	
Lincoln's Sparrow	Melospiza lincolnii	Y						X (W)	x	1			
White-crowned Sparrow	Zonotrichia leucophrys	Y	×	×				×	×				
Golden-crowned Sparrow	Zonotrichia atricapilla	Y						×	X				
Dark-eyed Junco	Junco hyemalis	Α.	X (VV)	x (W)	×	X (B)	X (B)	×	X (W)	x	×	×	
Black-headed Grosbeak	Pheucticus melanocephalus	Υ.	×	×					x		×	×	
Lazuli Bunting	Passerina amoena	Y	10 m					х					
Red-winged Blackbird	Agelaius phoeniceus	Y						×	×	×	X (B)	×	
Western Meadowlark	Sturnella neglecta	Y						x (w)	×				
rewer's Blackbird	Euphagus cyanocephalus	Y	×	×				×					

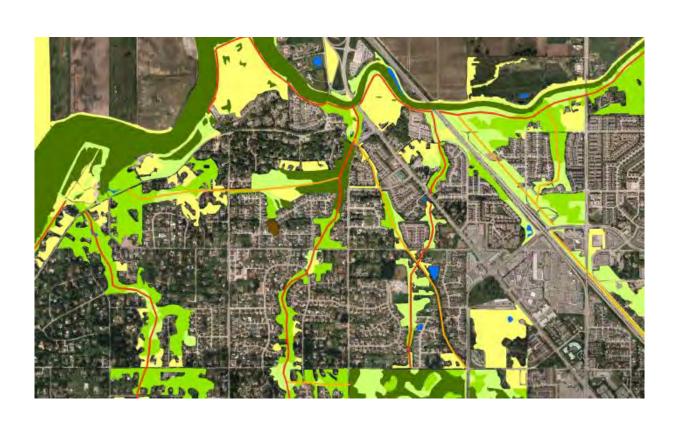
## Habitat Suitability















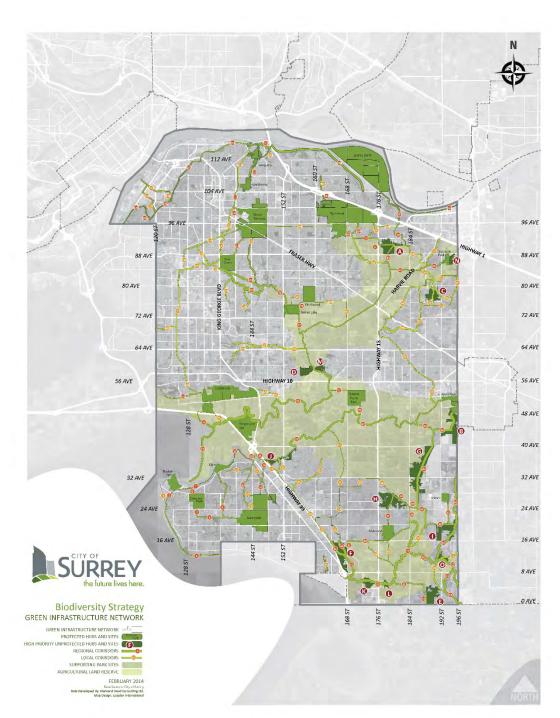






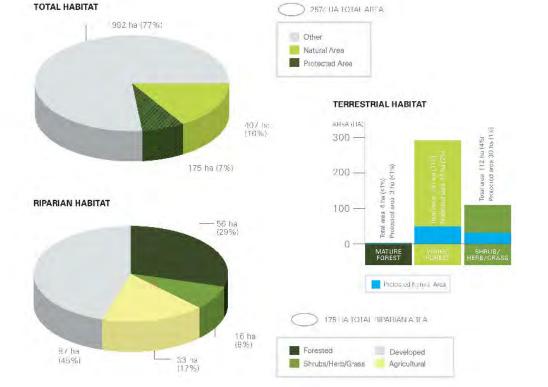
## Green Infrastructure Network











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## Backyard Biodiversity

