TIM MOYA ASSOCIATES

i-Tree

i-Tree is a state-of-the-art, recognised software suite from the USDA Forest Service that provides urban and rural forestry analysis and benefits assessment tools.

i-Tree Eco

A flexible software application designed to use data collected in the field from complete inventories along with local hourly air pollution and meteorological data to quantify forest structure, environmental effects, and value to communities.

What does iTree provide?

- i-Tree to report on individual trees, parcels, neighborhoods, cities.

Structural and compositional analyses

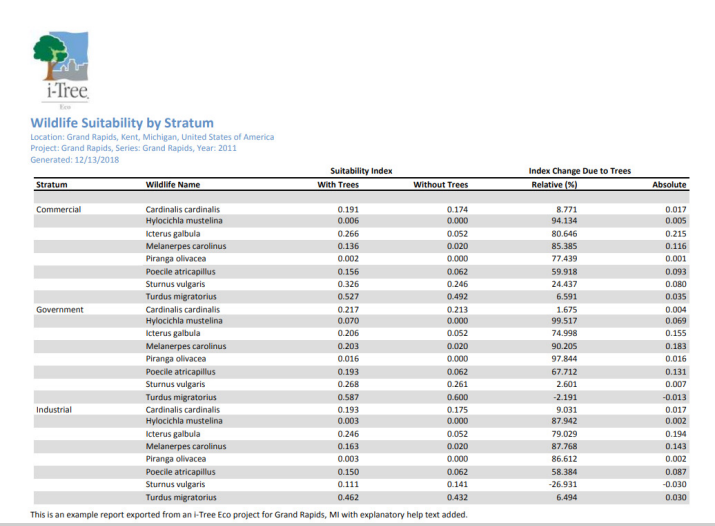
- Species condition and distribution
- Leaf area and biomass
- Species importance values
- Diversity indices and relative performance
- CAVAT value

Forecasting modeling options including

- Tree planting inputs
- Extreme event impacts for weather and pests
- Annual mortality adjustments

Functional Analyses

- Pollution removal and human health impacts
- Carbon sequestration and storage
- Hydrology effects (avoided run-off, interception, transpiration)
- Building energy effects
- Tree bioemissions
- Ultraviolet radiation (UV) tree effects



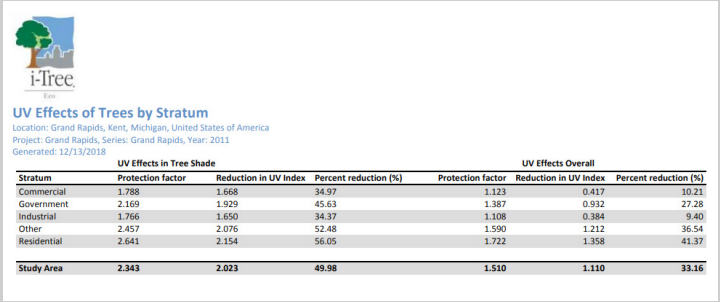
i-Tree Eco

Wildlife Suitability by Stratum

Location: Grand Rapids, Kent, Michigan, United States of America
Project: Grand Rapids, Series: Grand Rapids, Year: 2011
Generated: 12/13/2018

		Suitability Index		Index Change Due to Trees	
Stratum	Wildlife Name	With Trees	Without Trees	Relative (%)	Absolute
Commercial	Cardinalis cardinalis	0.191	0.174	8.771	0.017
	Hylocichla mustelina	0.006	0.000	94.134	0.005
	Icterus galbula	0.266	0.052	80.646	0.215
	Melanerpes carolinus	0.136	0.020	85.385	0.116
	Piranga olivacea	0.002	0.000	77.439	0.001
	Poecile atricapillus	0.156	0.062	59.918	0.093
	Sturnus vulgaris	0.326	0.246	24.437	0.080
	Turdus migratorius	0.527	0.492	6.591	0.035
Government	Cardinalis cardinalis	0.217	0.213	1.675	0.004
	Hylocichla mustelina	0.070	0.000	99.517	0.069
	Icterus galbula	0.206	0.052	74.998	0.155
	Melanerpes carolinus	0.203	0.020	90.205	0.183
	Piranga olivacea	0.016	0.000	97.844	0.016
	Poecile atricapillus	0.193	0.062	67.712	0.131
	Sturnus vulgaris	0.268	0.261	2.601	0.007
	Turdus migratorius	0.587	0.600	-2.191	-0.013
Industrial	Cardinalis cardinalis	0.193	0.175	9.031	0.017
	Hylocichla mustelina	0.003	0.000	87.942	0.002
	Icterus galbula	0.246	0.052	79.029	0.194
	Melanerpes carolinus	0.163	0.020	87.768	0.143
	Piranga olivacea	0.003	0.000	86.612	0.002
	Poecile atricapillus	0.150	0.062	58.384	0.087
	Sturnus vulgaris	0.111	0.141	-26.931	-0.030
	Turdus migratorius	0.462	0.432	6.494	0.030

This is an example report exported from an i-Tree Eco project for Grand Rapids, MI with explanatory help text added.



i-Tree Eco

UV Effects of Trees by Stratum

Location: Grand Rapids, Kent, Michigan, United States of America
Project: Grand Rapids, Series: Grand Rapids, Year: 2011
Generated: 12/13/2018

	UV Effects in Tree Shade			UV Effects Overall		
Stratum	Protection factor	Reduction in UV Index	Percent reduction (%)	Protection factor	Reduction in UV Index	Percent reduction (%)
Commercial	1.788	1.668	34.97	1.123	0.417	10.21
Government	2.169	1.929	45.63	1.387	0.932	27.28
Industrial	1.766	1.650	34.37	1.108	0.384	9.40
Other	2.457	2.076	52.48	1.590	1.212	36.54
Residential	2.641	2.154	56.05	1.722	1.358	41.37
Study Area	**2.343**	**2.023**	**49.98**	**1.510**	**1.110**	**33.16**