



Avian Habitat Suitability by Stratum

Location: Grand Rapids, Kent, Michigan, United States of America

Project: Grand Rapids, Series: Grand Rapids, Year: 2011

Generated: 3/19/2020

Stratum	Wildlife Name	Suitability Index		Index Change Due to Trees	
		With Trees	Without Trees	Relative (%)	Absolute
Commercial	<i>Cardinalis cardinalis</i>	0.191	0.174	8.771	0.017
	<i>Hylocichla mustelina</i>	0.006	0.000	94.134	0.005
	<i>Icterus galbula</i>	0.266	0.052	80.646	0.215
	<i>Melanerpes carolinus</i>	0.136	0.020	85.385	0.116
	<i>Piranga olivacea</i>	0.002	0.000	77.439	0.001
	<i>Poecile atricapillus</i>	0.156	0.062	59.918	0.093
	<i>Sturnus vulgaris</i>	0.326	0.246	24.437	0.080
	<i>Turdus migratorius</i>	0.527	0.492	6.591	0.035
Government	<i>Cardinalis cardinalis</i>	0.217	0.213	1.675	0.004
	<i>Hylocichla mustelina</i>	0.070	0.000	99.517	0.069
	<i>Icterus galbula</i>	0.206	0.052	74.998	0.155
	<i>Melanerpes carolinus</i>	0.203	0.020	90.205	0.183
	<i>Piranga olivacea</i>	0.016	0.000	97.844	0.016
	<i>Poecile atricapillus</i>	0.193	0.062	67.712	0.131
	<i>Sturnus vulgaris</i>	0.268	0.261	2.601	0.007
	<i>Turdus migratorius</i>	0.587	0.600	-2.191	-0.013
Industrial	<i>Cardinalis cardinalis</i>	0.193	0.175	9.031	0.017
	<i>Hylocichla mustelina</i>	0.003	0.000	87.942	0.002
	<i>Icterus galbula</i>	0.246	0.052	79.029	0.194
	<i>Melanerpes carolinus</i>	0.163	0.020	87.768	0.143
	<i>Piranga olivacea</i>	0.003	0.000	86.612	0.002
	<i>Poecile atricapillus</i>	0.150	0.062	58.384	0.087
	<i>Sturnus vulgaris</i>	0.111	0.141	-26.931	-0.030
	<i>Turdus migratorius</i>	0.462	0.432	6.494	0.030
Other	<i>Cardinalis cardinalis</i>	0.191	0.233	-22.143	-0.042



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	Hylocichla mustelina	0.119	0.000	99.717	0.119
	Icterus galbula	0.215	0.052	76.020	0.163
	Melanerpes carolinus	0.229	0.020	91.330	0.210
	Piranga olivacea	0.018	0.000	98.056	0.018
	Poecile atricapillus	0.225	0.062	72.348	0.163
	Sturnus vulgaris	0.162	0.137	15.548	0.025
	Turdus migratorius	0.474	0.481	-1.387	-0.007
Residential	Cardinalis cardinalis	0.330	0.362	-9.707	-0.032
	Hylocichla mustelina	0.090	0.000	99.627	0.090
	Icterus galbula	0.341	0.052	84.909	0.290
	Melanerpes carolinus	0.283	0.020	92.959	0.263
	Piranga olivacea	0.012	0.000	97.031	0.012
	Poecile atricapillus	0.255	0.062	75.598	0.193
	Sturnus vulgaris	0.304	0.313	-3.100	-0.009
Study Area	Cardinalis cardinalis	0.272	0.289	-6.384	-0.017
	Hylocichla mustelina	0.074	0.000	99.547	0.074
	Icterus galbula	0.288	0.052	82.122	0.237
	Melanerpes carolinus	0.239	0.020	91.694	0.220
	Piranga olivacea	0.012	0.000	97.005	0.011
	Poecile atricapillus	0.223	0.062	72.051	0.161
	Sturnus vulgaris	0.271	0.268	1.085	0.003
	Turdus migratorius	0.552	0.549	0.558	0.003



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Suitability index is a unitless value meant to capture the ability of an area to sustain a population based on the habitat features that relate to and influence the patterns of abundance for each species.

Help Panel Text from the i-Tree Eco application copied below for further clarification

The table provides estimates of avian habitat suitability for each stratum and your study area as a whole. The suitability index reported here is a unitless value meant to capture the ability of an area to sustain a population based on the habitat features that relate to and influence the patterns of abundance of each species. Two suitability index values are given for each stratum. One value is based on the trees in that stratum and the other value assumes an absence of trees in the stratum.

The index change due to trees is estimated as the following:

- A relative change calculated as the absolute change (see below) divided by the suitability index with trees.
- An absolute change calculated as the suitability index with trees minus the suitability index without trees.

The avian species reported here are based on their ranges so only those species present in the study area will be included in the report. Data is available for up to nine bird species, including American robin, Baltimore oriole, black-capped chickadee, Carolina chickadee, European starling, northern cardinal, red-bellied woodpecker, scarlet tanager, and wood thrush.

Notes:

- If you have not stratified your project, results will be presented for a single stratum.
- If you make changes to your project settings or add or edit your field data, you will need to send your data to the server and load your results again to ensure that your changes are reflected in your reports.
- Use the toolbar at the top of the action panel to zoom in and out and save or print the report you have open.
- You can change how units (English or metric) and species names (common or scientific) are displayed in your reports by clicking on the appropriate button in the ribbon above.