Forest structure but not tree diversity differ among urban woodlands with differing conservation

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Table S1. Table describing the park type, species, invasive status (according to the Eastern Temperate Forest region), and proportion of stems for each tree species ($> 5.0 \mathrm{~cm}$ DBH) found in each park.

	Park		Species	Percent of
Park	Type	Scientific Name	Status	Stems
Angrignon	Non- Status	Fraxinus pennsylvanica	Native	24.26
Angrignon	Non- Status	Acer saccharinum	Native	17.82
Angrignon	Non- Status	Acer freemanii	Native	17.33
Angrignon	Non- Status	Populus deltoides	Native	9.41
Angrignon	Non- Status	Ulmus americana	Native	8.42
Angrignon	Non- Status	Rhamnus cathartica	Invasive	6.93
Angrignon	Non- Status	Acer saccharum	Native	4.95

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Park	Park Type	Scientific Name	Species Status	Percent of Stems
Angrignon	Non-	Quercus rubra	Native	3.47
Angrigion	Status	Quercus rubra	Nauive	5.41
Angrignon	Non-	Quercus macrocarpa	Native	2.48
1111811811011	Status	Quereus maeroeurpa	1100110	2.10
Angrignon	Non-	Rhamnus frangula	Invasive	1.49
	Status			
Angrignon	Non-	Tilia americana	Native	1.49
0 0	Status			
Angrignon	Non-	Acer nigrum	Native	0.50
	Status			
Angrignon	Non-	Fagus grandifolia	Native	0.50
	Status			
Angrignon	Non-	Quercus bicolor	Native	0.50
	Status			
Angrignon	Non-	Viburnum species	Native	0.50
	Status			
Bois-de-Liesse	Nature	Rhamnus cathartica	Invasive	30.59
Bois-de-Liesse	Nature	Acer saccharum	Native	18.43
Bois-de-Liesse	Nature	Fagus grandifolia	Native	16.47
Bois-de-Liesse	Nature	Populus deltoides	Native	8.63
Bois-de-Liesse	Nature	Fraxinus	Native	3.92
		pennsylvanica		
Bois-de-Liesse	Nature	Tilia americana	Native	3.92
Bois-de-Liesse	Nature	Ulmus americana	Native	3.14
Bois-de-Liesse	Nature	Acer freemanii	Native	2.35
Bois-de-Liesse	Nature	Lonicera periclymenum	Invasive	2.35
Bois-de-Liesse	Nature	Ostrya virginiana	Native	1.18
Bois-de-Liesse	Nature	Quercus macrocarpa	Native	1.18
Bois-de-Liesse	Nature	Acer nigrum	Native	0.78
Bois-de-Liesse	Nature	Acer saccharinum	Native	0.78
Bois-de-Liesse	Nature	Prunus virginiana	Native	0.78
Bois-de-Liesse	Nature	Carya cordiformis	Native	0.39
Bois-de-Liesse	Nature	Cornus alternifolia	Native	0.39
Bois-de-Liesse	Nature	Fraxinus americana	Native	0.39
Bois-de-Liesse	Nature	Juglans cinerea	Native	0.39
Bois-de-Liesse	Nature	Pinus strobus	Native	0.39
Bois-de-Liesse	Nature	Populus tremuloides	Native	0.39
Bois-de-Saraguay	Nature	Acer saccharum	Native	42.98
Bois-de-Saraguay	Nature	Acer nigrum	Native	26.38

	Park		Species	Percent of
Park	Type	Scientific Name	Status	Stems
Bois-de-Saraguay	Nature	Rhamnus cathartica	Invasive	5.11
Bois-de-Saraguay	Nature	Carya cordiformis	Native	4.68
Bois-de-Saraguay	Nature	Tilia americana	Native	4.68
Bois-de-Saraguay	Nature	Acer freemanii	Native	3.83
Bois-de-Saraguay	Nature	Ostrya virginiana	Native	3.40
Bois-de-Saraguay	Nature	Quercus macrocarpa	Native	2.98
Bois-de-Saraguay	Nature	Acer saccharinum	Native	2.13
Bois-de-Saraguay	Nature	Ulmus americana	Native	1.28
Bois-de-Saraguay	Nature	Quercus rubra	Native	0.85
Bois-de-Saraguay	Nature	Betula alleghaniensis	Native	0.43
Bois-de-Saraguay	Nature	Fraxinus americana	Native	0.43
Bois-de-Saraguay	Nature	Quercus alba	Native	0.43
Bois-de-Saraguay	Nature	Quercus bicolor	Native	0.43
Boisé-de-Saint-	Non-	Ulmus americana	Native	34.23
Sulpice	Status			
Boisé-de-Saint-	Non-	Populus tremuloides	Native	20.77
Sulpice	Status			
Boisé-de-Saint-	Non-	Acer freemanii	Native	8.08
Sulpice	Status			
Boisé-de-Saint-	Non-	Populus deltoides	Native	4.23
Sulpice	Status			
Boisé-de-Saint-	Non-	Acer saccharum	Native	3.85
Sulpice	Status			
Boisé-de-Saint-	Non-	Fraxinus americana	Native	3.46
Sulpice	Status			
Boisé-de-Saint-	Non-	Acer negundo	Native	2.69
Sulpice	Status			
Boisé-de-Saint-	Non-	Acer saccharinum	Native	2.69
Sulpice	Status			
Boisé-de-Saint-	Non-	Acer plantanoides	Invasive	2.31
Sulpice	Status			
Boisé-de-Saint-	Non-	Picea glauca	Native	2.31
Sulpice	Status			
Boisé-de-Saint-	Non-	Sorbus aucuparia	Native	2.31
Sulpice	Status			
Boisé-de-Saint-	Non-	Pinus resinosa	Native	1.92
Sulpice	Status			
Boisé-de-Saint-	Non-	Juglans nigra	Native	1.54
Sulpice	Status	-		

	Park		Species	Percent of
Park	Type	Scientific Name	Status	Stems
Boisé-de-Saint-	Non-	Fraxinus	Native	1.15
Sulpice	Status	pennsylvanica		
Boisé-de-Saint-	Non-	Celtis occidentalis	Native	0.77
Sulpice	Status			
Boisé-de-Saint-	Non-	Juglans cinerea	Native	0.77
Sulpice	Status			
Boisé-de-Saint-	Non-	Quercus rubra	Native	0.77
Sulpice	Status			
Boisé-de-Saint-	Non-	Carya cordiformis	Native	0.38
Sulpice	Status			
Boisé-de-Saint-	Non-	Morus alba	Invasive	0.38
Sulpice	Status			
Boisé-de-Saint-	Non-	Ostrya virginiana	Native	0.38
Sulpice	Status			
Boisé-de-Saint-	Non-	Prunus serotina	Native	0.38
Sulpice	Status			
Boisé-de-Saint-	Non-	Prunus virginiana	Native	0.38
Sulpice	Status			
Boisé-de-Saint-	Non-	Quercus macrocarpa	Native	0.38
Sulpice	Status			
Boisé-de-Saint-	Non-	Rhamnus cathartica	Invasive	0.38
Sulpice	Status			
Boisé-de-Saint-	Non-	Robinia pseudoacacia	Invasive	0.38
Sulpice	Status			
Boisé-de-Saint-	Non-	Tilia americana	Native	0.38
Sulpice	Status			
Boisé-de-Saint-	Non-	Ulmus hollandica	Non-Native	0.38
Sulpice	Status			
Boisé-de-Saint-	Non-	Ulmus pumila	Invasive	0.38
Sulpice	Status			
Boisé-de-Saint-	Non-	Ulmus thomasii	Native	0.38
Sulpice	Status			
Cap-Saint-Jacques	Nature	Rhamnus cathartica	Invasive	52.43
Cap-Saint-Jacques	Nature	Acer saccharum	Native	26.60
Cap-Saint-Jacques	Nature	Fraxinus	Native	5.63
		pennsylvanica		
Cap-Saint-Jacques	Nature	Ulmus americana	Native	4.35
Cap-Saint-Jacques	Nature	Ostrya virginiana	Native	3.32
Cap-Saint-Jacques	Nature	Celtis occidentalis	Native	2.30
Cap-Saint-Jacques	Nature	Fraxinus americana	Native	1.53

	Park		Species	Percent of
Park	Type	Scientific Name	Status	Stems
Cap-Saint-Jacques	Nature	Carya cordiformis	Native	1.28
Cap-Saint-Jacques	Nature	Tilia americana	Native	1.02
Cap-Saint-Jacques	Nature	Carya ovata	Native	0.51
Cap-Saint-Jacques	Nature	Cornus alternifolia	Native	0.26
Cap-Saint-Jacques	Nature	Populus tremuloides	Native	0.26
Cap-Saint-Jacques	Nature	Quercus alba	Native	0.26
Cap-Saint-Jacques	Nature	Quercus rubra	Native	0.26
Coulée-Grou	Non- Status	Acer negundo	Native	44.91
Coulée-Grou	Non- Status	Fraxinus americana	Native	11.32
Coulée-Grou	Non- Status	Fraxinus pennsylvanica	Native	10.94
Coulée-Grou	Non- Status	Robinia pseudoacacia	Invasive	10.94
Coulée-Grou	Non- Status	Gleditsia triacanthos	Native	4.91
Coulée-Grou	Non- Status	Lonicera periclymenum	Invasive	3.02
Coulée-Grou	Non- Status	Populus deltoides	Native	2.64
Coulée-Grou	Non- Status	Celtis occidentalis	Native	0.75
Coulée-Grou	Non- Status	Tilia americana	Native	0.75
Coulée-Grou	Non- Status	Ulmus americana	Native	0.75
Coulée-Grou	Non- Status	Acer tataricum	Non-Native	0.38
Coulée-Grou	Non- Status	Amelanchier arborea	Native	0.38
Coulée-Grou	Non- Status	Malus domestica	Native	0.38
Coulée-Grou	Non- Status	Prunus sp.	Native	0.38
Coulée-Grou	Non- Status	Prunus virginiana	Native	0.38
Coulée-Grou	Non- Status	Rhamnus cathartica	Invasive	0.38

Park	Park Type	Scientific Name	Species Status	Percent of Stems
Coulée-Grou	Non-	Ulmus pumila	Invasive	0.38
	Status	C		0.00
Jean-Drapeau	Non-	Celtis occidentalis	Native	28.35
•	Status			
Jean-Drapeau	Non-	Acer saccharum	Native	15.75
	Status			
Jean-Drapeau	Non-	Tilia americana	Native	15.75
	Status			
Jean-Drapeau	Non-	Ulmus americana	Native	8.66
	Status			
Jean-Drapeau	Non-	Ostrya virginiana	Native	6.30
	Status			
Jean-Drapeau	Non-	Pinus resinosa	Native	4.72
	Status			
Jean-Drapeau	Non-	Acer saccharinum	Native	2.36
	Status			
Jean-Drapeau	Non-	Crataegus succlenta	Native	2.36
	Status			
Jean-Drapeau	Non-	Quercus macrocarpa	Native	2.36
	Status			
Jean-Drapeau	Non-	Quercus rubra	Native	2.36
	Status			
Jean-Drapeau	Non-	Acer plantanoides	Invasive	1.57
	Status			
Jean-Drapeau	Non-	Fraxinus	Native	1.57
	Status	pennsylvanica		
Jean-Drapeau	Non-	Rhamnus cathartica	Invasive	1.57
	Status		77	o - o
Jean-Drapeau	Non-	Acer freemanii	Native	0.79
I D	Status	4 1 11	37	0 =0
Jean-Drapeau	Non-	Aesculus glabra	Native	0.79
ı D	Status	D: '1	NT NT	0.70
Jean-Drapeau	Non-	Picea aibes	Non-Native	0.79
ı D	Status	D'	NT 4:	0.70
Jean-Drapeau	Non-	Picea pungens	Native	0.79
I D	Status	D	N-4:	0.70
Jean-Drapeau	Non-	Prunus virginiana	Native	0.79
Ioon Dromas.	Status	Thuis ossidentalia	Nativo	0.70
Jean-Drapeau	Non-	Thuja occidentalis	Native	0.79
	Status			

	Park		Species	Percent of
Park	Type	Scientific Name	Status	Stems
L'Anse-à-l'Orme	Nature	Ostrya virginiana	Native	39.77
L'Anse-à-l'Orme	Nature	Acer saccharum	Native	24.43
L'Anse-à-l'Orme	Nature	Rhamnus cathartica	Invasive	13.07
L'Anse-à-l'Orme	Nature	Populus deltoides	Native	3.12
L'Anse-à-l'Orme	Nature	Tilia americana	Native	3.12
L'Anse-à-l'Orme	Nature	Ulmus americana	Native	2.84
L'Anse-à-l'Orme	Nature	Acer freemanii	Native	2.56
L'Anse-à-l'Orme	Nature	Carya cordiformis	Native	2.56
L'Anse-à-l'Orme	Nature	Fraxinus pennsylvanica	Native	1.70
L'Anse-à-l'Orme	Nature	Acer negundo	Native	1.14
L'Anse-à-l'Orme Nature Populus tremuloides		Native	1.14	
L'Anse-à-l'Orme	Nature	Acer rubrum	Native	0.85
L'Anse-à-l'Orme	Nature	Acer saccharinum	Native	0.85
L'Anse-à-l'Orme	Nature	Carya ovata	Native	0.85
L'Anse-à-l'Orme	Nature	Fraxinus americana	Native	0.85
L'Anse-à-l'Orme	Nature	Betula papyrifera	Native	0.57
L'Anse-à-l'Orme	Nature	Quercus rubra	Native	0.57
Pointe-aux-Prairies	Nature	Acer rubrum	Native	40.58
Pointe-aux-Prairies	Nature	Quercus rubra	Native	14.01
Pointe-aux-Prairies	Nature	Acer freemanii	Native	11.11
Pointe-aux-Prairies	Nature	Carya ovata	Native	4.83
Pointe-aux-Prairies	Nature	Ulmus americana	Native	4.83
Pointe-aux-Prairies	Nature	Fraxinus pennsylvanica	Native	3.86
Pointe-aux-Prairies	Nature	Prunus serotina	Native	3.86
Pointe-aux-Prairies	Nature	Prunus virginiana	Native	3.86
Pointe-aux-Prairies	Nature	Acer saccharum	Native	2.90
Pointe-aux-Prairies	Nature	Fagus grandifolia	Native	1.93
Pointe-aux-Prairies	Nature	Populus deltoides	Native	1.45
Pointe-aux-Prairies	Nature	Betula alleghaniensis	Native	0.97
Pointe-aux-Prairies	Nature	Fraxinus americana	Native	0.97
Pointe-aux-Prairies	Nature	Quercus bicolor	Native	0.97
Pointe-aux-Prairies	Nature	Rhamnus cathartica	Invasive	0.97
Pointe-aux-Prairies	Nature	Robinia pseudoacacia	Invasive	0.97
Pointe-aux-Prairies	Nature	Tilia americana	Native	0.97
Pointe-aux-Prairies	Nature	Acer plantanoides	Invasive	0.48
Thomas-Chapais	Non- Status	Ostrya virginiana	Native	40.97

Park	Park Type	Scientific Name	Species Status	Percent of Stems
Thomas-Chapais	Non- Status	Acer saccharum	Native	16.45
Thomas-Chapais	Non- Status	Carya cordiformis	Native	14.19
Thomas-Chapais	Non- Status	Tilia americana	Native	10.00
Thomas-Chapais	Non- Status	Crataegus pruinosa	Non-Native	4.84
Thomas-Chapais	Non- Status	Fraxinus americana	Native	2.90
Thomas-Chapais	Non- Status	Ulmus americana	Native	1.94
Thomas-Chapais	Non- Status	Celtis occidentalis	Native	1.29
Thomas-Chapais	Non- Status	Populus deltoides	Native	1.29
Thomas-Chapais	Non- Status	Fraxinus pennsylvanica	Native	0.97
Thomas-Chapais	Non- Status	Quercus rubra	Native	0.97
Thomas-Chapais	Non- Status	Rhamnus cathartica	Invasive	0.97
Thomas-Chapais	Non- Status	Acer rubrum	Native	0.65
Thomas-Chapais	Non- Status	Acer freemanii	Native	0.32
Thomas-Chapais	Non- Status	Crataegus monogyna	Non-Native	0.32
Thomas-Chapais	Non- Status	Lonicera periclymenum	Invasive	0.32
Thomas-Chapais	Non- Status	Pinus strobus	Native	0.32
Thomas-Chapais	Non- Status	Prunus serotina	Native	0.32
Thomas-Chapais	Non- Status	Quercus macrocarpa	Native	0.32
Thomas-Chapais	Non- Status	Tilia cordata	Non-Native	0.32
Île-Bizard	Nature	Acer saccharum	Native	46.52
Île-Bizard	Nature	Rhamnus cathartica	Invasive	20.00

	Park		Species	Percent of	
Park	Type	Scientific Name	Status	Stems	
Île-Bizard	Nature	Ulmus americana	Native	10.00	
Île-Bizard	Nature	Tilia americana	Native	6.96	
Île-Bizard	Nature	Robinia pseudoacacia	Invasive	4.35	
Île-Bizard	Nature	Fraxinus pennsylvanica	Native	3.48	
Île-Bizard	Nature	Ostrya virginiana	Native	3.04	
Île-Bizard	Nature	Fraxinus americana	Native	1.74	
Île-Bizard	Nature	Lonicera periclymenum	Invasive	0.87	
Île-Bizard	Nature	Acer negundo	Native	0.43	
Île-Bizard	Nature	Crataegus pruinosa	Non-Native	0.43	
Île-Bizard	Nature	Fagus grandifolia	Native	0.43	
Île-Bizard	Nature	Thuja occidentalis	Native	0.43	

Table S2. Model summary table for the general linear model describing the relationship between tree species richness (dependent) and conservation status, park size, and proportion of invasive stems (independents).

Term	Estimate	Standard Error	t-statistic	p-value
Intercept	16.54	3.04	5.43	0.00
Nature Park	2.72	4.46	0.61	0.56
Park Size	0.15	2.09	0.07	0.94
Proportion Invasive	-1.38	2.24	-0.62	0.56

Table S3. Model summary table for the general linear model describing the relationship between tree Shannon diversity (dependent) and conservation status, park size, and proportion of invasive stems (independents).

Term	Estimate	Standard Error	t-statistic	p-value
Intercept	14.25	2.39	5.96	0.00
Nature Park	1.95	3.50	0.56	0.60
Park Size	-0.36	1.64	-0.22	0.83
Proportion Invasive	-1.15	1.76	-0.65	0.54

Table S4. Model summary table for the beta regression model describing the relationship between percent canopy cover (dependent) and conservation status, park size, and proportion of invasive stems (independents).

Component	Term	Estimate	Standard Error	t-statistic	p-value
mean	Intercept	0.79	0.33	2.40	0.02
mean	Nature Park	1.42	0.57	2.50	0.01
mean	Park Size	-0.26	0.24	-1.09	0.27
mean	Proportion Invasive	-0.25	0.28	-0.87	0.38
precision	phi	11.03	4.72	2.34	0.02

Table S5. Model summary table for the general linear model describing the relationship between mean vegetative complexity (dependent) and conservation status, park size, and proportion of invasive stems (independents).

Term	Estimate	Standard Error	t-statistic	p-value
Intercept	2.24	0.17	13.33	0.00
Nature Park	0.48	0.25	1.97	0.09
Park Size	-0.03	0.12	-0.28	0.79
Proportion Invasive	0.08	0.12	0.62	0.56

Table S6. Model summary table for the beta regression model describing the relationship between the percent invasive species (dependent) and conservation status and park size (independents)

Component	Term	Estimate	Standard Error	t-statistic	p-value
mean	Intercept	-1.76	0.20	-8.78	0.00
mean	Nature Park	-0.31	0.29	-1.08	0.28
mean	Park Size	0.00	0.00	-0.17	0.86
precision	phi	42.67	18.20	2.34	0.02

Table S7. Model summary table for the beta regression model describing the relationship between the percent invasive stems (dependent) and conservation status and park size (independents)

Component	Term	Estimate	Standard Error	t-statistic	p-value
mean	Intercept	-2.34	0.47	-4.98	0.00
mean	Nature Park	0.68	0.57	1.20	0.23
mean	Park Size	0.00	0.00	0.84	0.40
precision	phi	7.58	3.32	2.28	0.02