

Table S1. One-way repeat measures analysis of variance results and pairwise comparisons examining within subject (year [2015]) differences for each vegetation type among ground layer and shrub/sapling parameters at the North Chicago Wetland Mitigation Site. Different letters in post-hoc comparisons indicate significant pairwise differences. Woody stratum data were non-normal and analyzed with Friedman's test. \* = sphericity assumed, \*\* = Greenhouse-Geisser adjustment when sphericity not found, \*\*\* non-normal, uncorrected with transformation (Chi-square from Friedman's test); ^ = Multiple comparison adjustment made with the Sidak multiple comparison test (possibly unreliable with the non-parametric data [\*\*\*]).

PARAMETER	Veg. Type	spher-icity	Within Subject (Year)			Pairwise Comparisons <sup>^</sup>						
			<i>F</i>	<i>df</i>	<i>p</i>	2009	2010	2011	2012	2013	2014	2015
<b>Ground Layer</b>												
Native Spp. Density	Prairie	*	3.52	6, 36	0.008	<i>a</i>	<i>ab</i>	<i>ab</i>	<i>b</i>	<i>ab</i>	<i>ab</i>	<i>ab</i>
	Trans Prairie	**	7.08	1.8, 12.7	0.010	<i>ab</i>	<i>a</i>	<i>ab</i>	<i>b</i>	<i>a</i>	<i>a</i>	<i>ab</i>
	Old Field	**	2.99	2.4, 68.4	0.047	<i>abc</i>	<i>abc</i>	<i>ab</i>	<i>ab</i>	<i>ab</i>	<i>abc</i>	<i>c</i>
Non-Native Spp. Density	Prairie	*	3.77	6, 36	0.005	-	-	-	-	-	-	-
	Trans Prairie	*	1.97	6, 42	0.091	-	-	-	-	-	-	-
	Old Field	**	5.93	3.9, 109.7	< 0.001	<i>ac</i>	<i>abc</i>	<i>ab</i>	<i>c</i>	<i>ab</i>	<i>ac</i>	<i>c</i>
Native Spp. Richness	Prairie	*	2.02	6, 36	0.088	-	-	-	-	-	-	-
	Trans Prairie	**	5.83	1.6, 11.3	0.022	<i>a</i>	<i>bc</i>	<i>ac</i>	<i>abc</i>	<i>b</i>	<i>abc</i>	<i>abc</i>
	Old Field	**	8.02	3.0, 85.2	< 0.001	<i>abde</i>	<i>acd</i>	<i>ac</i>	<i>bde</i>	<i>abd</i>	<i>de</i>	<i>e</i>
Non-Native Spp. Richness	Prairie	**	1.86	2.7, 16.5	0.179	-	-	-	-	-	-	-
	Trans Prairie	*	1.55	6, 42	0.186	-	-	-	-	-	-	-
	Old Field	**	13.25	3.8, 106.3	< 0.001	<i>ac</i>	<i>a</i>	<i>b</i>	<i>ac</i>	<i>ab</i>	<i>a</i>	<i>c</i>
Diversity	Prairie	*	0.43	6, 36	0.856	-	-	-	-	-	-	-
	Trans Prairie	**	4.60	2.5, 17.5	0.019	-	-	-	-	-	-	-
	Old Field	**	1.60	3.0, 84.9	0.194	-	-	-	-	-	-	-
Dominance	Prairie	*	0.99	6, 36	0.443	-	-	-	-	-	-	-
	Trans Prairie	**	3.06	1.7, 12.1	0.089	-	-	-	-	-	-	-
	Old Field	**	9.73	3.2, 89.7	< 0.001	<i>a</i>	<i>ad</i>	<i>a</i>	<i>ad</i>	<i>b</i>	<i>bc</i>	<i>bcd</i>
% Ground Cover	Prairie	**	11.17	2.2, 13.4	0.001	<i>a</i>	<i>ab</i>	<i>ab</i>	<i>b</i>	<i>b</i>	<i>ab</i>	<i>b</i>
	Trans Prairie	*	4.58	6, 42	0.001	<i>ab</i>	<i>ab</i>	<i>a</i>	<i>ab</i>	<i>b</i>	<i>b</i>	<i>b</i>
	Old Field	**	36.74	4.2, 117.8	< 0.001	<i>ab</i>	<i>a</i>	<i>b</i>	<i>cd</i>	<i>c</i>	<i>d</i>	<i>bc</i>
% Bare Ground	Prairie	**	1.88	2.1, 12.8	0.192	-	-	-	-	-	-	-
	Trans Prairie	**	2.86	2.4, 16.8	0.077	-	-	-	-	-	-	-
	Old Field	**	22.27	2.9, 81.9	< 0.001	<i>a</i>	<i>b</i>	<i>cd</i>	<i>cd</i>	<i>cd</i>	<i>c</i>	<i>d</i>
Mean C	Prairie	*	1.12	6, 36	0.369	-	-	-	-	-	-	-
	Trans Prairie	*	6.35	6, 42	< 0.001	-	-	-	-	-	-	-
	Old Field	**	10.21	3.5, 98.7	< 0.001	<i>ac</i>	<i>ac</i>	<i>b</i>	<i>ab</i>	<i>ab</i>	<i>a</i>	<i>c</i>

FQI	Prairie	*	1.16	6, 36	0.351	-	-	-	-	-	-	-
	Trans Prairie	**	8.49	1.6, 11.5	0.007	<i>ab</i>	<i>ab</i>	<i>a</i>	<i>ab</i>	<i>b</i>	<i>b</i>	<i>ab</i>
	Old Field	**	8.60	2.9, 80.2	< 0.001	<i>acd</i>	<i>abcd</i>	<i>b</i>	<i>bc</i>	<i>ab</i>	<i>c</i>	<i>d</i>
<b>Shrub/Sapling Stratum</b>			<b>Chi-sq</b>									
Shrub Density	Prairie	***	34.40	6.00	< 0.0001	-	-	-	-	-	-	-
	Trans Prairie	***	32.84	6.00	< 0.0001	<i>a</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>
	Old Field	***	96.97	6.00	< 0.0001	<i>a</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>
% Canopy Cover	Prairie	***	32.20	6.00	< 0.0001	-	-	-	-	-	-	-
	Trans Prairie	***	20.73	6.00	0.002	<i>a</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>
	Old Field	***	87.15	6.00	< 0.0001	<i>a</i>	<i>b</i>	<i>cd</i>	<i>cd</i>	<i>c</i>	<i>cd</i>	<i>d</i>
LAI	Prairie	***	29.40	6.00	0.000	-	-	-	-	-	-	-
	Trans Prairie	***	18.90	6.00	0.004	<i>a</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>	<i>b</i>
	Old Field	***	83.16	6.00	< 0.0001	<i>a</i>	<i>b</i>	<i>bc</i>	<i>bc</i>	<i>c</i>	<i>bc</i>	<i>b</i>

Table S2. Results from paired samples tests (paired t tests and for non-normal data that could not be successfully transformed the Wilcoxon paired samples test) comparing the results for a variety of parameters from the 2009 baseline to the 2015 final sample at the North Chicago mitigation site in Lake County, IL. In all cases, the Wilcoxon Related Samples Signed Rank Test agreed with the paired t test results.

OVERALL (n = 44)

PARAMETERS	2009	SE	2015	SE	t stat	df	p	Wilcoxon	p
<b>Grd-Layer Spp Diversity</b>									
Native Spp. Density/Quadrat	17.28	1.23	18.07	1.01	-0.84	43	0.406		
Non-Native Sp Density/Quadrat	4.75	0.34	5.52	0.27	-2.18	43	0.035		
Native Richness/Plot	29.39	1.82	32.25	1.48	-1.99	43	0.053		
Non-Native Richness/Plot	6.86	0.54	9.27	0.47	-4.03	43	<0.001		
Shannon-Wiener Diversity (native)	2.43	0.09	2.45	0.06	-0.26	43	0.799	490.00	0.953
Simpson's Dominance (all spp.)	0.21	0.03	0.12	0.01	3.35	43	0.002	197.00	0.001
<b>Vegetation Structure</b>									
% Vegetation Cover	131.26	12.84	137.66	5.61	-0.62	43	0.537		
% Bare Ground	25.91	2.90	18.16	1.76	3.09	43	0.004		
<b>Floristic Quality Assessment</b>									
Mean C /quadrat (1-m <sup>2</sup> )	2.33	0.11	2.41	0.11	-1.49	43	0.144		
FQI /quadrat	9.98	0.75	10.46	0.72	-1.27	43	0.210		
<b>Shrub Stratum</b>									
Shrub Density/ 25-m <sup>2</sup> plot	58.48	5.05	2.95	0.87	11.37	43	<0.001	0.00	<0.001
% Canopy Cover	67.63	3.08	15.46	2.51	16.68	43	<0.001	0.00	<0.001
Leaf Area Index (LAI)	1.24	0.09	0.17	0.05	12.97	43	<0.001	0.00	<0.001

REFERENCE PRAIRIE

PARAMETERS	2009	SE	2015	SE	t stat	df	p	Wilcoxon	p
<b>Grd-Layer Spp Diversity</b>									
Native Spp. Density/Quadrat	28.95	0.58	26.38	2.20	1.30	6	0.242		
Non-Native Sp Density/Quadrat	5.71	0.74	4.71	0.57	2.17	6	0.073		
Native Richness/Plot	44.43	1.45	42.00	3.21	0.75	6	0.484	11.50	0.672
Non-Native Richness/Plot	7.00	1.21	7.14	0.94	-0.18	6	0.864		
Shannon-Wiener Diversity (native)	2.78	0.06	2.74	0.14	0.28	6	0.790	17.00	0.612
Simpson's Dominance (all spp.)	0.09	0.00	0.10	0.01	-0.54	6	0.607	11.00	0.612
<b>Vegetation Structure</b>									
% Vegetation Cover	292.67	7.96	186.40	9.68	7.25	6	<0.001		
% Bare Ground	5.26	1.21	8.14	1.14	-1.42	6	0.205		
<b>Floristic Quality Assessment</b>									
Mean C /quadrat (1-m <sup>2</sup> )	3.50	0.12	3.62	0.09	-1.39	6	0.214		
FQI /quadrat	18.84	0.74	18.48	1.10	0.34	6	0.748		
<b>Shrub Stratum</b>									
Shrub Density/ 25-m <sup>2</sup> plot	34.57	8.09	1.71	1.19	4.32	6	0.005	0.00	0.018
% Canopy Cover	31.19	6.38	3.36	0.82	4.58	6	0.004	0.00	0.018

Leaf Area Index (LAI)	0.31	0.09	0.02	0.00	3.46	6	0.014	0.00	0.018
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#### TRANSECT PRAIRIE

PARAMETERS	2009	SE	2015	SE	t stat	df	p	Wilcoxon	p
<b>Grd-Layer Spp Diversity</b>									
Native Spp. Density/Quadrat	20.18	1.07	17.50	1.56	1.44	7	0.194		
Non-Native Sp Density/Quadrat	6.88	0.80	6.54	0.62	0.40	7	0.704		
Native Richness/Plot	33.25	1.47	31.38	2.16	0.69	7	0.514		
Non-Native Richness/Plot	10.88	0.90	10.00	1.21	0.94	7	0.380		
Shannon-Wiener Diversity (native)	2.56	0.09	2.64	0.07	-0.61	7	0.562		
Simpson's Dominance (all spp.)	0.11	0.02	0.10	0.01	0.64	7	0.541	16.00	0.779
<b>Vegetation Structure</b>									
% Vegetation Cover	154.96	20.87	133.92	10.02	1.03	7	0.337		
% Bare Ground	13.39	3.56	12.94	1.80	0.10	7	0.923		
<b>Floristic Quality Assessment</b>									
Mean C /quadrat (1-m <sup>2</sup> )	2.22	0.09	2.18	0.12	0.34	7	0.745		
FQI /quadrat	9.89	0.51	9.16	0.84	0.89	7	0.403		
<b>Shrub Stratum</b>									
Shrub Density/ 25-m <sup>2</sup> plot	90.00	8.18	4.38	2.44	12.25	7	<0.001		
% Canopy Cover	69.05	6.40	13.63	2.39	7.72	7	<0.001		
Leaf Area Index (LAI)	1.24	0.20	0.10	0.02	5.76	7	<0.001		

#### OLD FIELD

PARAMETERS	2009	SE	2015	SE	t stat	df	p	Wilcoxon	p
<b>Grd-Layer Spp Diversity</b>									
Native Spp. Density/Quadrat	13.66	1.31	16.22	1.11	-2.27	28	0.031		
Non-Native Sp Density/Quadrat	3.93	0.34	5.44	0.33	-3.60	28	0.001		
Native Richness/Plot	24.69	2.13	30.14	1.81	-3.11	28	0.004		
Non-Native Richness/Plot	5.72	0.58	9.59	0.57	-5.39	28	<0.001		
Shannon-Wiener Diversity (native)	2.30	0.12	2.32	0.07	-0.17	28	0.867	205.00	0.787
Simpson's Dominance (all spp.)	0.27	0.03	0.14	0.01	3.57	28	0.001	57.00	0.001
<b>Vegetation Structure</b>									
% Vegetation Cover	85.76	6.85	126.92	6.07	-6.08	28	<0.001		
% Bare Ground	34.34	3.30	22.01	2.30	3.75	28	0.001	57.50	0.001
<b>Floristic Quality Assessment</b>									
Mean C /quadrat (1-m <sup>2</sup> )	2.09	0.11	2.18	0.11	-1.46	28	0.156	282.00	0.163
FQI /quadrat	7.86	0.65	8.88	0.65	-2.29	28	0.030		
<b>Shrub Stratum</b>									
Shrub Density/ 25-m <sup>2</sup> plot	55.55	6.03	2.86	1.11	8.83	28	<0.001	0.00	<0.001
% Canopy Cover	76.03	1.78	18.88	3.54	17.05	28	<0.001	0.00	<0.001
Leaf Area Index (LAI)	1.46	0.07	0.23	0.07	15.28	28	<0.001	0.00	<0.001