

Mesic sand prairie

Summary of 9 Sites N = 162 Species

No.	Qual.	Mean Sp. Frequency	Stand.Dev.	Sum	Minimum Frequency	Maximum Frequency	S	E	H	Mean Native Plot Richness	
1047	B	5.123	13.246	830.000	.000	70.000	38	.902	3.282	8.33	
898	B	5.463	13.209	885.000	.000	85.000	47	.895	3.445	8.85	
899	B	4.630	10.538	750.000	.000	60.000	45	.919	3.497	7.50	
1071	B	5.391	12.594	873.333	.000	86.667	64	.871	3.624	8.73	
502	B	3.920	14.741	635.000	.000	100.000	23	.836	2.622	6.35	
934	B	5.988	15.311	970.000	.000	95.000	45	.882	3.358	9.70	
500-2	B	4.784	9.561	775.000	.000	45.000	55	.928	3.719	7.75	
425	A	7.870	18.005	1275.000	.000	95.000	38	.939	3.415	13.00	
1066	A	6.728	16.431	1090.000	.000	80.000	39	.915	3.353	10.90	
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AVRS:	B	5.043						45.3	.890	3.364	8.17
± se	A	7.299						38.5	.927	3.384	11.95

S = Total Native Species Sampled

E = Evenness =  $H / \ln(S)$

H = Diversity =  $-\sum (P_i \cdot \ln(P_i))$ , where  $P_i$  = importance probability in element i (element i relativized by row total)

Summary of stand structure

<u>Components</u>	<u>Relative Frequency</u>
Native graminoid	23.63
Native forbs	70.10
Native woody	3.75
Ferns and fern allies	1.65
Alien species	7.84

**Dominant (> = 10 % Frequency) native graminoid species**

<u>Species</u>	<u>Abbreviation</u>	<u>Frequency</u>
Andropogon gerardii	Andger	45.19
Sorghastrum nutans	Sornut	33.70
Andropogon scoparius	Andsco	30.56
Sporobolus heterolepis	SpoHet	20.00
Carex sp.	Carsp.	17.78
Spartina pectinata	Spapec	13.52

**Dominant (> = 10 % Frequency) native forb species**

<u>Species</u>	<u>Abbreviation</u>	<u>Frequency</u>
Pycnanthemum virginianum	Pycvir	32.96
Aster ericoides	Asteri	26.85
Helianthus mollis	Helmol	20.56
Solidago gymnospermoides	SolgyM	20.56
Euphorbia corollata	Eupcor	19.07
Coreopsis tripteris	Cortri	18.70
Liatris spicata	Liaspi	17.96
Veronicastrum virginicum	Vervir	17.96
Fragaria virginiana	Fravir	17.59
Parthenium integrifolium	Parint	15.56
Helianthus grosseserratus	Helgro	15.19
Tradescantia ohiensis	Traohi	15.19
Solidago altissima	Solalt	15.00
Potentilla simplex	Potsim	14.44
Eryngium yuccifolium	Eryyuc	14.26
Phlox pilosa	Phlpil	14.26
Lespedeza capitata	Lescap	13.33

Zizia aurea	Zizaur	13.33
Aster azureus	Astazu	12.59
Phlox glaberrima ssp interior	Phlgla int	11.67
Rudbeckia hirta	Rudhir	11.67
Silphium integrifolium	Silint	11.11
Silphium terebinthinaceum	Silter	10.56
Solidago nemoralis	Solnem	10.56
Solidago riddellii	Solrid	10.00

**Native woody species (>= 2 % Frequency)**

<u>Species</u>	<u>Abbreviation</u>	<u>Frequency</u>
Rubus hispidus	Rubhis	11.11
Rosa carolina	Roscar	7.96
Rhus radicans	Rhurad	3.33
Cornus racemosa?	Corrac	3.33
Salix humilis	Salhum	2.59

**Alien species (> 5 % Frequency)**

<u>Species</u>	<u>Abbreviation</u>	<u>Frequency</u>
Achillea millefolium*	Achmil	25.74
Poa pratensis*	Poapra	18.52
Agrostis alba *	Agralb	12.41

Summary of 162 Species

N = 9 Sites

Num.	Name	Mean sp. Frequency	Stand.Dev.	Sum	Minimum Frequency	Maximum Frequency	S	E	H
1	Agrpar	.556	1.667	5.000	.000	5.000	1	.000	.000
2	Allcan	5.556	11.304	50.000	.000	30.000	2	.971	.673
3	Allcer	5.556	16.667	50.000	.000	50.000	1	.000	.000
4	Ambart	3.333	4.330	30.000	.000	10.000	4	.959	1.330
5	Ambtri	1.667	3.536	15.000	.000	10.000	2	.918	.637
6	Amocan	.370	1.111	3.333	.000	3.333	1	.000	.000
7	Ampbra	.556	1.667	5.000	.000	5.000	1	.000	.000
8	Andger	45.185	31.496	406.667	5.000	100.000	9	.898	1.972
9	Andsco	30.556	28.443	275.000	5.000	95.000	9	.843	1.852
10	Antneg	.556	1.667	5.000	.000	5.000	1	.000	.000
11	Apiame	5.000	15.000	45.000	.000	45.000	1	.000	.000
12	Apocan	.370	1.111	3.333	.000	3.333	1	.000	.000
13	Aposib	2.037	3.514	18.333	.000	10.000	3	.906	.995
14	Arelat	.556	1.667	5.000	.000	5.000	1	.000	.000
15	Asepur	.370	1.111	3.333	.000	3.333	1	.000	.000
16	Ascsyr	.741	2.222	6.667	.000	6.667	1	.000	.000
17	Asctub	.556	1.667	5.000	.000	5.000	1	.000	.000
18	Ascver	.741	2.222	6.667	.000	6.667	1	.000	.000
19	Astazu	12.593	23.141	113.333	.000	63.333	3	.826	.907
20	Astdum	2.778	8.333	25.000	.000	25.000	1	.000	.000
21	Asteri	26.852	26.371	241.667	.000	75.000	6	.935	1.676
22	Astnov	2.037	3.514	18.333	.000	10.000	3	.906	.995
23	Astpil	.926	1.884	8.333	.000	5.000	2	.971	.673
24	Astsp.	.556	1.667	5.000	.000	5.000	1	.000	.000
25	Astsp.1	.741	2.222	6.667	.000	6.667	1	.000	.000
26	Astsp.2	1.481	4.444	13.333	.000	13.333	1	.000	.000
27	Bapleu	.926	1.884	8.333	.000	5.000	2	.971	.673
28	Barvir	.556	1.667	5.000	.000	5.000	1	.000	.000
29	Calcan	6.481	8.352	58.333	.000	25.000	5	.891	1.434
30	Caltub	1.111	3.333	10.000	.000	10.000	1	.000	.000
31	Carbic	3.889	9.930	35.000	.000	30.000	2	.592	.410
32	Carsp.	17.778	29.380	160.000	.000	80.000	4	.800	1.109
33	Carsp.1	7.037	18.081	63.333	.000	55.000	3	.435	.478

34 Carstr	.370	1.111	3.333	.000	3.333	1	.000	.000
35 Casfas	8.889	24.847	80.000	.000	75.000	2	.337	.234
36 Cirdis	2.778	4.410	25.000	.000	10.000	3	.960	1.055
37 Cirmut	1.667	5.000	15.000	.000	15.000	1	.000	.000
38 Cirsp.	.926	1.884	8.333	.000	5.000	2	.971	.673
39 Comumb	9.630	13.509	86.667	.000	40.000	5	.845	1.361
40 Consep	.556	1.667	5.000	.000	5.000	1	.000	.000
41 Consp.	.556	1.667	5.000	.000	5.000	1	.000	.000
42 Corpal	.926	1.884	8.333	.000	5.000	2	.971	.673
43 Corrac	3.333	8.292	30.000	.000	25.000	2	.650	.451
44 Cortri	18.704	29.590	168.333	.000	90.000	6	.726	1.301
45 Descan	5.926	9.651	53.333	.000	30.000	5	.780	1.255
46 Desill	.556	1.667	5.000	.000	5.000	1	.000	.000
47 Dicot	.370	1.111	3.333	.000	3.333	1	.000	.000
48 Dodmea	.556	1.667	5.000	.000	5.000	1	.000	.000
49 Drythe p	.556	1.667	5.000	.000	5.000	1	.000	.000
50 Elecom	1.111	3.333	10.000	.000	10.000	1	.000	.000
51 Elesp.	.556	1.667	5.000	.000	5.000	1	.000	.000
52 Equarv	10.000	17.139	90.000	.000	50.000	4	.784	1.087
53 Equulae	4.259	5.278	38.333	.000	15.000	5	.908	1.461
54 Eristr	.370	1.111	3.333	.000	3.333	1	.000	.000
55 Eryyuc	14.259	22.191	128.333	.000	60.000	4	.833	1.155
56 Eupalt	1.111	2.205	10.000	.000	5.000	2	1.000	.693
57 Eupcor	19.074	19.187	171.667	.000	50.000	7	.869	1.690
58 Fravir	17.593	17.323	158.333	.000	45.000	6	.920	1.648
59 Galbor	1.111	3.333	10.000	.000	10.000	1	.000	.000
60 Galobt	7.222	19.861	65.000	.000	60.000	2	.391	.271
61 Germac	1.111	3.333	10.000	.000	10.000	1	.000	.000
62 Helbic	.556	1.667	5.000	.000	5.000	1	.000	.000
63 Heldiv	.370	1.111	3.333	.000	3.333	1	.000	.000
64 Helgro	15.185	17.920	136.667	.000	55.000	6	.876	1.569
65 Helmol	20.556	31.765	185.000	.000	75.000	3	.981	1.077
66 Helrig	5.000	10.000	45.000	.000	25.000	2	.991	.687
67 Heuric	2.222	6.667	20.000	.000	20.000	1	.000	.000
68 Hypsp.	2.222	6.667	20.000	.000	20.000	1	.000	.000
69 Hypsph	1.111	3.333	10.000	.000	10.000	1	.000	.000
70 Junbif	.556	1.667	5.000	.000	5.000	1	.000	.000
71 Jundud	.556	1.667	5.000	.000	5.000	1	.000	.000
72 Junint	.556	1.667	5.000	.000	5.000	1	.000	.000
73 Junsp.	1.111	2.205	10.000	.000	5.000	2	1.000	.693
74 Koecri	1.481	3.379	13.333	.000	10.000	2	.811	.562
75 Kribif	3.148	8.268	28.333	.000	25.000	2	.523	.362
76 Krivir	1.111	3.333	10.000	.000	10.000	1	.000	.000
77 Latpal	6.667	11.726	60.000	.000	35.000	4	.776	1.075
78 Latven	1.111	3.333	10.000	.000	10.000	1	.000	.000
79 Lescap	13.333	22.500	120.000	.000	70.000	5	.753	1.212
80 Liaasp	2.593	5.212	23.333	.000	13.333	2	.985	.683
81 Liapyc	.556	1.667	5.000	.000	5.000	1	.000	.000
82 Liaspi	17.963	14.785	161.667	5.000	46.667	9	.869	1.909
83 Litcan	8.519	18.171	76.667	.000	55.000	3	.701	.770
84 Luzmul	.370	1.111	3.333	.000	3.333	1	.000	.000
85 Lycsp.	1.111	3.333	10.000	.000	10.000	1	.000	.000
86 Lyslan	.556	1.667	5.000	.000	5.000	1	.000	.000
87 Lysqua	2.222	6.667	20.000	.000	20.000	1	.000	.000
88 Lytala	.370	1.111	3.333	.000	3.333	1	.000	.000
89 Malioe	.741	2.222	6.667	.000	6.667	1	.000	.000
90 Monfis	9.630	15.383	86.667	.000	45.000	4	.837	1.160
91 Monpun	.556	1.667	5.000	.000	5.000	1	.000	.000
92 Oenpil	3.704	8.198	33.333	.000	25.000	3	.665	.731
93 Oxyrig	.556	1.667	5.000	.000	5.000	1	.000	.000
94 Panoli s	1.667	3.536	15.000	.000	10.000	2	.918	.637

95 Panpra	6.111	13.176	55.000	.000	40.000	3	.691	.760
96 Pansp.	1.111	3.333	10.000	.000	10.000	1	.000	.000
97 Panvil	5.185	10.816	46.667	.000	30.000	2	.940	.652
98 Panvir	7.222	9.718	65.000	.000	20.000	4	.927	1.285
99 Parint	15.556	32.543	140.000	.000	95.000	3	.674	.740
100 Pensp.	.556	1.667	5.000	.000	5.000	1	.000	.000
101 Petcan	.556	1.667	5.000	.000	5.000	1	.000	.000
102 Petpur	2.222	6.667	20.000	.000	20.000	1	.000	.000
103 Phlgla i	11.667	23.452	105.000	.000	70.000	3	.761	.836
104 Phlpil	14.259	20.785	128.333	.000	60.000	5	.812	1.306
105 Phyvir	1.852	3.768	16.667	.000	10.000	2	.971	.673
106 Polcan	1.667	5.000	15.000	.000	15.000	1	.000	.000
107 Polsan	1.111	3.333	10.000	.000	10.000	1	.000	.000
108 Polver	.556	1.667	5.000	.000	5.000	1	.000	.000
109 Potsim	14.444	26.392	130.000	.000	75.000	3	.846	.929
110 Preasp	.556	1.667	5.000	.000	5.000	1	.000	.000
111 Prerac	.556	1.667	5.000	.000	5.000	1	.000	.000
112 Pruser	.556	1.667	5.000	.000	5.000	1	.000	.000
113 Pruvir	.370	1.111	3.333	.000	3.333	1	.000	.000
114 Pycvir	32.963	27.459	296.667	.000	75.000	7	.931	1.812
115 Ratpin	7.778	16.415	70.000	.000	50.000	3	.725	.796
116 Rhurad	3.333	10.000	30.000	.000	30.000	1	.000	.000
117 Roscar	7.963	8.771	71.667	.000	26.667	6	.902	1.616
118 Rubfla	1.667	5.000	15.000	.000	15.000	1	.000	.000
119 Rubhis	11.111	25.345	100.000	.000	75.000	2	.811	.562
120 Rubsp.	.556	1.667	5.000	.000	5.000	1	.000	.000
121 Rudhir	11.667	14.790	105.000	.000	45.000	5	.906	1.459
122 Saldis	.556	1.667	5.000	.000	5.000	1	.000	.000
123 Salhum	2.593	4.339	23.333	.000	10.000	3	.914	1.004
124 Salint	.556	1.667	5.000	.000	5.000	1	.000	.000
125 Scetri	3.333	10.000	30.000	.000	30.000	1	.000	.000
126 Sedge	.556	1.667	5.000	.000	5.000	1	.000	.000
127 Senpau	1.667	3.536	15.000	.000	10.000	2	.918	.637
128 Sensp.	.741	2.222	6.667	.000	6.667	1	.000	.000
129 Silint	11.111	18.333	100.000	.000	50.000	3	.937	1.030
130 Sillac	6.111	14.954	55.000	.000	45.000	2	.684	.474
131 Silter	10.556	19.275	95.000	.000	55.000	4	.714	.990
132 Sisalb	1.481	2.274	13.333	.000	5.000	3	.985	1.082
133 Smilas	.556	1.667	5.000	.000	5.000	1	.000	.000
134 Smiste	3.519	5.679	31.667	.000	15.000	3	.952	1.046
135 Solalt	15.000	19.203	135.000	.000	60.000	6	.845	1.515
136 Solgig	8.148	9.876	73.333	.000	30.000	6	.865	1.550
137 Solgra	8.333	11.456	75.000	.000	25.000	4	.913	1.265
138 Solgra n	3.889	11.667	35.000	.000	35.000	1	.000	.000
139 Solgym	20.556	24.167	185.000	.000	65.000	6	.855	1.532
140 Soljun	5.000	13.229	45.000	.000	40.000	2	.503	.349
141 Solmis f	5.000	15.000	45.000	.000	45.000	1	.000	.000
142 Solnem	10.556	12.360	95.000	.000	40.000	6	.895	1.604
143 Solrid	10.000	26.339	90.000	.000	80.000	3	.388	.426
144 Solrig	9.444	12.360	85.000	.000	30.000	4	.952	1.320
145 Solsp.	1.667	3.536	15.000	.000	10.000	2	.918	.637
146 Solspe	2.037	3.514	18.333	.000	10.000	3	.906	.995
147 Sornut	33.704	25.628	303.333	5.000	85.000	9	.882	1.937
148 Spapac	13.519	17.168	121.667	.000	55.000	6	.858	1.537
149 Spohet	20.000	23.452	180.000	.000	55.000	5	.903	1.454
150 Sposp.	.556	1.667	5.000	.000	5.000	1	.000	.000
151 Stispa	1.667	3.536	15.000	.000	10.000	2	.918	.637
152 Strhel	1.111	3.333	10.000	.000	10.000	1	.000	.000
153 Traohi	15.185	29.338	136.667	.000	86.667	3	.801	.880
154 Trisp.	.370	1.111	3.333	.000	3.333	1	.000	.000
155 Vervir	17.963	16.003	161.667	.000	45.000	6	.963	1.725

156 Vicame	1.111	3.333	10.000	.000	10.000	1	.000	.000
157 Viofim	3.889	11.667	35.000	.000	35.000	1	.000	.000
158 Violan	.556	1.667	5.000	.000	5.000	1	.000	.000
159 Viopap	5.000	10.607	45.000	.000	30.000	2	.918	.637
160 Viosag	7.593	14.722	68.333	.000	45.000	4	.704	.977
161 Viosp.	4.444	11.577	40.000	.000	35.000	2	.544	.377
162 Zizaur	13.333	27.500	120.000	.000	75.000	2	.954	.662
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AVERAGES:	5.544	8.996	49.897	.123	26.111	2.4	.432	.529
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