

Mesic gravel prairies

Summary of 3 Sites N = 93 Species

No.	Qual.	Mean Sp. Frequency	Stand.Dev.	Sum	Minimum Frequency	Maximum Frequency	S	E	H	Mean Native Plot Richness	
503	B	10.430	14.364	970.000	.000	75.000	59	.919	3.749	9.80	
398	A	14.194	22.928	1320.000	.000	90.000	44	.910	3.444	13.20	
253	A	13.495	18.763	1255.000	.000	90.000	59	.907	3.698	12.75	
AVRS: A							13.8445	51.5	.9085	3.571	12.975

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	21.01
Native forbs	76.16
Native woody	1.97
Alien species	8.32

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

<u>Species</u>	<u>Abbreviation</u>	<u>Frequency</u>
Sorghastrum nutans	Sornut	61.67
Sporobolus heterolepis	Spohet	38.33
Andropogon scoparius	Andsco	35.00
Andropogon gerardii	Andger	33.33
Carex sp.??	Carsp.	31.67
Calamagrostis canadensis	Calcan	15.00

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

<u>Species</u>	<u>Abbreviation</u>	<u>Frequency</u>
Allium cernuum	Allcer	75.00
Smilacina stellata	Smiste	66.67
Ratibida pinnata	Ratpin	51.67
Silphium terebinthinaceum	Silter	43.33
Aster azureus	Astazu	38.33
Physalis virginiana	Phyvir	33.33
Aster ericoides	Asteri	30.00
Viola sp.?	Viosp.	30.00
Rudbeckia hirta	Rudhir	28.33
Aster ptarmicoides?	Astpta	26.67
Coreopsis tripteris	Cortri	25.00
Phlox pilosa	Phlpil	25.00
Solidago riddellii	Solrid	21.67
Petalostemum purpureum	Petpur	20.00
Lobelia spicata	Lobspi	18.33
Senecio pauperculus	Senpau	18.33
Solidago rigida	Solrig	18.33
Valeriana ciliata	Valcil	18.33
Convolvulus sepium?	Consep	16.67
Comandra umbellata	Comumb	15.00
Sisyrinchium albidum	Sisalb	15.00
Solidago gigantea	Solgig	15.00
Euphorbia corollata	Eupcor	13.33
Scutellaria parvula	Scupar	13.33
Silphium integrifolium	Silint	13.33

Viola papilionacea?	Viopap	13.33
Monarda fistulosa	Monfis	10.00
Phlox glaberrima ssp interior	Phlgla int	10.00
Pycnanthemum virginianum	Pycvir	10.00
Satureja arkansana	Satark	10.00

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

<u>Species</u>	<u>Abbreviation</u>	<u>Frequency</u>
Rosa carolina	Roscar	18.33
Cornus racemosa	Corrac	3.33

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

<u>Species</u>	<u>Abbreviation</u>	<u>Frequency</u>
Poa compressa*	Poacom	45.00
Agrostis alba *	Agralb	16.67
Daucus carota*	Daucar	10.00

Summary of 93 Species

N = 3 Sites

Num.	Name	Mean sp. Frequency	Stand.Dev.	Sum	Minimum Frequency	Maximum Frequency	S	E	H
1	Allcan	1.667	2.887	5.000	.000	5.000	1	.000	.000
2	Allcer	75.000	15.000	225.000	60.000	90.000	3	.988	1.085
3	Ambart	3.333	2.887	10.000	.000	5.000	2	1.000	.693
4	Amocan	1.667	2.887	5.000	.000	5.000	1	.000	.000
5	Andger	33.333	32.146	100.000	10.000	70.000	3	.730	.802
6	Andsco	35.000	15.000	105.000	20.000	50.000	3	.942	1.035
7	Aposib	1.667	2.887	5.000	.000	5.000	1	.000	.000
8	Ascsl	1.667	2.887	5.000	.000	5.000	1	.000	.000
9	Ascver	3.333	5.774	10.000	.000	10.000	1	.000	.000
10	Ascvir	1.667	2.887	5.000	.000	5.000	1	.000	.000
11	Astazu	38.333	35.473	115.000	.000	70.000	2	.966	.669
12	Asteri	30.000	13.229	90.000	20.000	45.000	3	.944	1.037
13	Astlae	1.667	2.887	5.000	.000	5.000	1	.000	.000
14	Astnov	3.333	2.887	10.000	.000	5.000	2	1.000	.693
15	Astpta	26.667	23.629	80.000	.000	45.000	2	.989	.685
16	Brokal	1.667	2.887	5.000	.000	5.000	1	.000	.000
17	Calcan	15.000	25.981	45.000	.000	45.000	1	.000	.000
18	Carsp.	31.667	25.658	95.000	10.000	60.000	3	.800	.879
19	Cascoc	3.333	5.774	10.000	.000	10.000	1	.000	.000
20	Casfas	3.333	5.774	10.000	.000	10.000	1	.000	.000
21	Cirsp.	5.000	5.000	15.000	.000	10.000	2	.918	.637
22	Composit	3.333	5.774	10.000	.000	10.000	1	.000	.000
23	Comumb	15.000	21.794	45.000	.000	40.000	2	.503	.349
24	Consep	16.667	17.559	50.000	.000	35.000	2	.881	.611
25	Consp.	6.667	11.547	20.000	.000	20.000	1	.000	.000
26	Corpall	1.667	2.887	5.000	.000	5.000	1	.000	.000
27	Corrac	3.333	2.887	10.000	.000	5.000	2	1.000	.693
28	Cortri	25.000	25.000	75.000	.000	50.000	2	.918	.637
29	Descan	3.333	2.887	10.000	.000	5.000	2	1.000	.693
30	Dicot	1.667	2.887	5.000	.000	5.000	1	.000	.000
31	Elecom	5.000	8.660	15.000	.000	15.000	1	.000	.000
32	Equarv	1.667	2.887	5.000	.000	5.000	1	.000	.000
33	Equulae	8.333	10.408	25.000	.000	20.000	2	.722	.500
34	Eriphi	1.667	2.887	5.000	.000	5.000	1	.000	.000
35	Eryyuc	6.667	2.887	20.000	5.000	10.000	3	.946	1.040
36	Eupcor	13.333	10.408	40.000	5.000	25.000	3	.819	.900
37	Eupser	5.000	5.000	15.000	.000	10.000	2	.918	.637
38	Fravir	8.333	7.638	25.000	.000	15.000	2	.971	.673
39	Galobt	8.333	14.434	25.000	.000	25.000	1	.000	.000

40 Helgro	1.667	2.887	5.000	.000	5.000	1	.000	.000
41 Helrig	5.000	8.660	15.000	.000	15.000	1	.000	.000
42 Hypsph	5.000	8.660	15.000	.000	15.000	1	.000	.000
43 Irishr	1.667	2.887	5.000	.000	5.000	1	.000	.000
44 Jundud	1.667	2.887	5.000	.000	5.000	1	.000	.000
45 Laccan	1.667	2.887	5.000	.000	5.000	1	.000	.000
46 Liaasp	5.000	8.660	15.000	.000	15.000	1	.000	.000
47 Liaspi	8.333	7.638	25.000	.000	15.000	2	.971	.673
48 Litcan	5.000	5.000	15.000	.000	10.000	2	.918	.637
49 Lobspi	18.333	16.073	55.000	.000	30.000	2	.994	.689
50 Lysqua	6.667	11.547	20.000	.000	20.000	1	.000	.000
51 Medsp.	8.333	14.434	25.000	.000	25.000	1	.000	.000
52 Monfis	10.000	5.000	30.000	5.000	15.000	3	.921	1.011
53 Muhsp.	1.667	2.887	5.000	.000	5.000	1	.000	.000
54 Oxaeur	1.667	2.887	5.000	.000	5.000	1	.000	.000
55 Oxyrig	1.667	2.887	5.000	.000	5.000	1	.000	.000
56 Panlan	3.333	5.774	10.000	.000	10.000	1	.000	.000
57 Pansp.	5.000	5.000	15.000	.000	10.000	2	.918	.637
58 Panvir	5.000	8.660	15.000	.000	15.000	1	.000	.000
59 Petpur	20.000	8.660	60.000	10.000	25.000	3	.936	1.028
60 Phlgla i	10.000	17.321	30.000	.000	30.000	1	.000	.000
61 Phlpil	25.000	13.229	75.000	10.000	35.000	3	.902	.991
62 Phyvir	33.333	25.658	100.000	5.000	55.000	3	.769	.845
63 Pruvul e	1.667	2.887	5.000	.000	5.000	1	.000	.000
64 Psoten	1.667	2.887	5.000	.000	5.000	1	.000	.000
65 Pycvir	10.000	8.660	30.000	.000	15.000	2	1.000	.693
66 Ratpin	51.667	5.774	155.000	45.000	55.000	3	.996	1.094
67 Roscar	18.333	17.559	55.000	.000	35.000	2	.946	.655
68 Rudhir	28.333	2.887	85.000	25.000	30.000	3	.997	1.095
69 Satark	10.000	17.321	30.000	.000	30.000	1	.000	.000
70 Scupar	13.333	2.887	40.000	10.000	15.000	3	.985	1.082
71 Senpau	18.333	27.538	55.000	.000	50.000	2	.439	.305
72 Silint	13.333	7.638	40.000	5.000	20.000	3	.887	.974
73 Sillac	3.333	5.774	10.000	.000	10.000	1	.000	.000
74 Silter	43.333	24.664	130.000	15.000	60.000	3	.883	.970
75 Sisalb	15.000	13.229	45.000	5.000	30.000	3	.773	.849
76 Smiste	66.667	20.817	200.000	50.000	90.000	3	.971	1.067
77 Solgig	15.000	10.000	45.000	5.000	25.000	3	.853	.937
78 Solnem	5.000	8.660	15.000	.000	15.000	1	.000	.000
79 Solrid	21.667	29.297	65.000	.000	55.000	2	.619	.429
80 Solrig	18.333	12.583	55.000	5.000	30.000	3	.834	.916
81 Sornut	61.667	7.638	185.000	55.000	70.000	3	.995	1.094
82 Spapec	5.000	.000	15.000	5.000	5.000	3	1.000	1.099
83 Spohet	38.333	34.034	115.000	.000	65.000	2	.988	.685
84 Stispa	5.000	5.000	15.000	.000	10.000	2	.918	.637
85 Thadas	1.667	2.887	5.000	.000	5.000	1	.000	.000
86 Traohi	1.667	2.887	5.000	.000	5.000	1	.000	.000
87 Trisp.	1.667	2.887	5.000	.000	5.000	1	.000	.000
88 Valcil	18.333	10.408	55.000	10.000	30.000	3	.906	.995
89 Vervir	1.667	2.887	5.000	.000	5.000	1	.000	.000
90 Viopap	13.333	23.094	40.000	.000	40.000	1	.000	.000
91 Vioped	1.667	2.887	5.000	.000	5.000	1	.000	.000
92 Viosp.	30.000	51.962	90.000	.000	90.000	1	.000	.000
93 Zizaur	8.333	14.434	25.000	.000	25.000	1	.000	.000

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AVERAGES: 12.706 10.377 38.118 4.247 23.387 1.7 .444 .398

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