

Table 1.2-- Diversity indices in 4 ecosystems calculated from proportional abundances of each small mammal species in each ecosystem. 2007 data are in blue.																							
Ecosystem (ES) No.	1					6					14					20					ALL		
Year:	2001	2002	2005	2006	2007	2000	2002	2005	2006	2007	2000	2001	2002	2005	2006	2007	2000	2001	2002	2005	2006	2007	2007
Shrews & Moles																							
<i>Blarina brevicauda</i>	0.093	0.103	0.157	0.030	0.031	0.170	0.174	0.024	0.107	0.121	0.000	0.245	0.057	0.113	0.087	0.087	0.000	0.231	0.500	0.000	0.000	0.150	0.083
<i>Sorex fumeus</i>	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.010	0.083	0.000	0.000	0.014	0.014	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.010
<i>Sorex cinereus</i>	0.000	0.103	0.060	0.015	0.031	0.021	0.109	0.000	0.000	0.030	0.000	0.020	0.057	0.042	0.101	0.101	0.000	0.000	0.000	0.020	0.133	0.050	0.034
<i>Parascalops breweri</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.003
Rodents																							
<i>Peromyscus</i> sp.	0.815	0.655	0.349	0.379	0.406	0.660	0.543	0.500	0.536	0.596	0.500	0.388	0.543	0.254	0.362	0.362	0.222	0.500	0.000	0.040	0.267	0.050	0.410
<i>Napaeozapus insignis</i>	0.000	0.000	0.036	0.000	0.198	0.000	0.043	0.000	0.000	0.061	0.000	0.061	0.029	0.028	0.029	0.029	0.111	0.000	0.100	0.280	0.067	0.500	0.162
<i>Zapus hudsonius</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.333	0.000	0.000	0.080	0.200	0.075	0.010
<i>Microtus pennsylvanicus</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.020	0.000	0.000	0.000	0.000	0.333	0.115	0.300	0.460	0.067	0.075	0.010
<i>Microtus pinetorum</i>	0.000	0.000	0.000	0.015	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<i>Myodes gapperi</i>	0.074	0.103	0.386	0.545	0.281	0.149	0.109	0.476	0.321	0.141	0.417	0.265	0.286	0.535	0.391	0.391	0.000	0.115	0.000	0.100	0.000	0.000	0.234
<i>Synaptomys cooperi</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.014	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
<i>Tamias striatus</i>	0.019	0.034	0.012	0.015	0.031	0.000	0.000	0.000	0.018	0.020	0.000	0.000	0.029	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.133	0.050	0.028
<i>Tamiasciurus hudsonicus</i>	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.010	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.038	0.000	0.000	0.000	0.000	0.007
<i>Glaucomys volans</i>	0.000	0.000	0.000	0.000	0.000	0.000	0.022	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Carnivores																							
<i>Mustela</i> sp.	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.018	0.000	0.000	0.000	0.000	0.000	0.014	0.014	0.000	0.000	0.100	0.020	0.133	0.050	0.007
Number of Species	4	5	6	6	8	4	6	3	5	9	3	6	6	7	7	7	4	5	4	7	7	8	12
Simpson's Index D *	0.678	0.463	0.300	0.443	0.286	0.487	0.352	0.477	0.402	0.395	0.431	0.285	0.384	0.366	0.304	0.304	0.284	0.331	0.360	0.309	0.173	0.294	0.259
1-D **	0.322	0.537	0.700	0.557	0.714	0.513	0.648	0.523	0.598	0.605	0.569	0.715	0.616	0.634	0.696	0.696	0.716	0.669	0.640	0.691	0.827	0.706	0.741
Shannon-Wiener H' ***	0.94	1.58	1.97	1.44	2.11	1.36	1.93	1.14	1.56	1.93	1.33	2.01	1.76	1.85	2.03	2.03	1.89	1.89	1.69	2.58	2.66	2.34	2.38
* = Probability of picking two organisms that are the same species.																							
** = Probability of picking two organisms that are different species.																							
*** = Average degree of uncertainty in predicting to what species an individual chosen at random from a sample will belong.																							

Table 1.3-- Estimated small mammal biomass (in grams) obtained per 100 trapnights in 4 ecosystem, based on average 2007 weights* of species. 2007 data are in blue.

Ecosystem (ES) No.	1					6					14					20					Indiv. Weight (g)*			
	2001	2002	2005	2006	2007	2000	2002	2005	2006	2007	2000	2001	2002	2005	2006	2007	2000	2001	2002	2005		2006	2007	
Shrews & Moles																								
<i>Blarina brevicauda</i>	69.9	32.0	125.1	19.2	28.9	91.8	82.3	9.6	57.7	115.5		179.0	20.2	77.0	57.7	28.9		127.9	124.3				57.7	17.9
<i>Sorex fumeus</i>					4.1					4.1	9.9			4.1	4.1	4.1								7.7
<i>Sorex cinereus</i>		8.0	12.1	2.4	7.2	2.9	12.9			7.2		3.7	5.1	7.2	16.9	4.8				2.4	4.8		4.8	4.5
<i>Parascalops breweri</i>										24.2														45.0
Rodents																								
<i>Peromyscus</i> sp.	598.1	196.8	271.3	233.9		345.8	250.0	196.5	280.6		133.8	275.5	186.8	168.4	233.9		58.0	269.3	0.0	18.7	37.4		18.7	17.4
<i>Napaeozapus insignis</i>			34.5		448.7		24.6			678.8		53.5	12.1	23.0	23.0	218.6	35.7		29.7	161.1	11.5		23.0	21.4
<i>Zapus hudsonius</i>					183.9					58.1						19.4	90.0			38.7	29.0		193.5	18.0
<i>Microtus pennsylvanicus</i>											17.5						105.0	75.0	87.5	259.7	11.3		33.9	21.0
<i>Microtus pinetorum</i>				11.3																			33.9	21.0
<i>Myodes gapperi</i>	54.4	31.1	299.4	336.8		78.1	50.0	187.1	168.4		111.5	188.5	98.3	355.5	252.6			62.1		46.8				17.4
<i>Synaptomys cooperi</i>					348.4					180.6				12.9		348.4								24.0
<i>Tamias striatus</i>	57.0	43.5	39.2	56.5					39.2				41.2								78.5			73.0
<i>Tamiasciurus hudsonicus</i>					169.4					112.9						56.5	125.0						112.9	105.0
<i>Glaucomys volans</i>							23.6																	41.0
Carnivores																								
<i>Mustela</i> sp.									31.2						31.2				80.6	31.2	62.4		62.4	58.0
TOTAL Biomass/ES (in grams):	779.5	311.3	781.6	660.0	1190.6	518.5	443.4	393.2	577.2	1181.5	255.3	717.7	363.7	648.2	619.4	680.6	288.7	659.3	322.1	558.5	234.9		540.8	
Multi-Year Average:			744.6					738.2						547.5					434.1					
* = Actual weight of single individuals captured used for <i>T. hudsonicus</i> , <i>G. volans</i> , <i>S. cooperi</i> , <i>M. pinetorum</i> and <i>Parascalops breweri</i>																								