

Soil Arthropod Worksheet

ENY 3005L

Exercise #1

Enter the Sample ID #, its common name, and order in the spaces below.

ID #	Common Name	Order

Exercise #3

Enter the count for each order in the appropriate space and calculate the average.

Order	Leaf Pile			Grass Pile		
	Count			Count		
	1	2	Ave.	1	2	Ave.
<i>Annelida</i>						
<i>Acarina</i>						
<i>Chilopoda</i>						
<i>Coleoptera</i>						
<i>Collembola</i>						
<i>Hymenoptera</i>						
<i>Isopoda</i>						
<i>Isoptera</i>						
<i>Thysanoptera</i>						

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Exercise #4

Population Density

Use the equation for population density to find the density of two taxons of your choice. Calculate for samples taken from 25 x 25 cm area. Enter the order and count per meter squared in the spaces provided.

Taxon #1 Order: _____
 Count: _____ / m²

Taxon #2 Order: : _____
 Count: _____ / m²

Species Diversity

Enter the following values in the appropriate spaces and use them to calculate a species diversity index using Soreneson's Quotient of Similarity.

Number of species common in both samples (leaf and grass) = _____ (j)

Number of species in first sample _____ (a)

Number of species in second sample _____ (b)

Quotient of Similarity (QS) = _____ % (round to the nearest tenth)