

Biological Soil Quality (QBS-ar) data recording sheet

Sampling site and date:

Sample analysed:

Students who analysed the fauna extracted from the sample:

MAJOR GROUPS OF SOIL ARTHROPODS (LIFE FORMS)		EMI	Highest EMI recorded for each group
Pseudoscorpions		20	
Scorpions	juvenile forms	10	
Palpigrades		20	
Opiliones		10	
Araneidae	life forms > 5 mm	1	
	all life forms < 5 mm, white or transparent	5	
Acari		20	
Isopodes		10	
Diplopoda	all life forms > 5 mm	10	
	all life forms < 5 mm	20	
Pauropoda		20	
Symphyla		20	
Chilopoda	life forms > 5 mm with well developed appendages (e.g. antennae, legs)	10	
	all life forms except those described above	20	
Protura		20	
Diplura		20	
Collembola	surface dwellers: functioning furcula; well developed eyes and appendages (e.g. limbs, antennae); bristles or protective plates; darker pigments	1	
	surface dwellers: same features as above but smaller in size	2	
	forms found in leaf litter: smaller; eyes well developed; less developed appendages; less pronounced pigments	4	
	forms found in lower litter layers and decomposing organic material (humus): same features as above but furcula reduced in size;	6	
	found in humus: similar features as described above but eyes reduced in size	8	
	deep soil dwellers (euedaphic forms); unpigmented, elongated bodies; eyes reduced in size, reduced furcula	10	
	deep soil dwellers (euedaphic forms); similar features to the above (white or transparent); eyes, and appendages absent; furcula not functioning or absent	20	

Thysanura		10	
Dermaptera		1	
Orthoptera	all life forms	1	
	true crickets	20	
Embioptera		10	
Blattodea		5	
Psocoptera		1	
Hemiptera	forms adapted to life on soil surface -epigeic	1	
	cicada larvae	10	
Thysanoptera		1	
Coleoptera	forms adapted to life on soil surface -epigeic	1	
	life forms < 2 mm	+4	
	thin tegument (outer covering of the body)	+5	
	small or absent wings	+5	
	small or absent eyes	+5	
	life forms that spend entire life cycle in soil presenting all features mentioned above	20	
Hymenoptera	all life forms	1	
	formicidae/ants	5	
Diptera	adults	1	
Coleoptera (larvae)		10	
Diptera (larvae)		10	
Hymenoptera (larve)		10	
Lepidoptera (larvae)		10	
Other insect larvae	adults	1	
		QBS	