

**Data archive: Insect assemblages from  
a Roman buried soil at 58-59 Skeldergate,  
York (site code 73-5.14)**

by

Harry Kenward

**Summary**

*Lists of insects recorded in the late 1970s from three samples from the Roman buried soil at the 58-59 Skeldergate site (a.k.a. Bishophill 1, site code 73-5.14), are given.*

**Keywords:** 58-59 SKELDERGATE, YORK, ROMAN, BURIED SOIL, INSECTS, SPECIES LISTS

Author's address:

Environmental Archaeology Unit  
Department of Biology  
University of York  
PO Box 373  
York YO10 5YW  
Telephone: (01904) 433843-51  
Fax: (01904) 433850; email [biol6@york.ac.uk](mailto:biol6@york.ac.uk)

12 July 2000

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**Skeldergate (Bishophill 1) data archive**

The insect assemblages from three samples from the Roman buried soil at the 58-59 Skeldergate site (aka Bishophill 1, site code 73-5.14) were recorded in the late 1970s and published by Hall *et al.* (1980). In 1999 the lists were entered into the EAU *Paradox* insect data system to provide information for a student project. They are here put on record as the data are otherwise inaccessible. Some of the identifications might be improved by re-examination of the fossils (many of which are card-mounted): other identifications were impracticable because the material was so fragmentary and decayed.

**References**

Hall, A. R., Kenward, H. K. and Williams, D. (1980). Environmental evidence from Roman deposits in Skeldergate. *The Archaeology of York* **14** (3), 101-56. London: Council for British Archaeology.

Kloet, G. S. and Hincks, W. D. (1964-77). *A check list of British Insects*. (2nd ed.) London: Royal Entomological Society.

Table 1. Complete list of invertebrate remains recorded from samples from the Skeldergate buried soil, in taxonomic order. Order and nomenclature follow Kloet and Hincks (1964-77). Where both secure and tentative identifications for a given taxon were recorded, only the former are listed here. Key: ec - ecological code (see Table 3); \* = not used in calculating assemblage statistics.

Taxon	ec		
		<i>Megasternum obscurum</i> (Marsham)	rt
		<i>Cryptopleurum minutum</i> (Fabricius)	rf-st
<b>Oligochaeta</b>		<i>Hydrobius fuscipes</i> (Linnaeus)	oa-w
* <i>Oligochaeta</i> sp. (egg capsule)	u	? <i>Anacaena</i> sp.	oa-w
* <i>Daphnia</i> sp. (ephippium)	oa-w	Hydrophilinae sp.	oa-w
		Histeridae sp.	u
<b>Insecta</b>		<i>Ochthebius</i> spp.	oa-w
DERMAPTERA		Ptiliidae sp.	u
* <i>Dermaptera</i> sp.	u	<i>Silpha atrata</i> Linnaeus	u
		Silphidae sp.	u
HEMIPTERA		Scydmaenidae sp.	u
Lygaeidae sp.	oa-p	<i>Omalium</i> sp.	rt
Saldidae sp.	oa-d	<i>Xylodromus ?concinus</i> (Marsham)	rt-st
Auchenorhyncha spp.	oa-p	Omalinae sp.	rt
		<i>Bledius</i> sp.	oa-d
DIPTERA		<i>Carpelimus ?bilineatus</i> Stephens	rt-sf
* <i>Bibionidae</i> sp.	u	<i>Carpelimus ?corticinus</i> (Gravenhorst)	oa-d
		<i>Carpelimus</i> spp. and spp. indet.	u
HYMENOPTERA		<i>Platystethus arenarius</i> (Fourcroy)	rf
		<i>Platystethus cornutus</i> group	oa-d
* <i>Hymenoptera Parasitica</i> sp.	u	<i>Platystethus nitens</i> (Sahlberg)	oa-d
* <i>Formicidae</i> sp.	u	<i>Platystethus nodifrons</i> (Mannerheim)	oa-d
* <i>Hymenoptera</i> sp.	u	<i>Anotylus ?complanatus</i> (Erichson)	rt-sf
		<i>Anotylus inustus</i> (Gravenhorst)	rt
COLEOPTERA		<i>Anotylus nitidulus</i> (Gravenhorst)	rt
<i>Carabus</i> sp.	oa	<i>Anotylus rugosus</i> (Fabricius)	rt
<i>Dyschirius ?globosus</i> (Herbst)	oa	<i>Anotylus sculpturatus</i> group	rt
<i>Dyschirius</i> sp. indet.	oa	<i>Anotylus ?tetracarinatus</i> (Block)	rt
<i>Clivina ?fossor</i> (Linnaeus)	oa	<i>Oxytelus sculptus</i> Gravenhorst	rt-st
<i>Trechus secalis</i> (Paykull)	oa-d	<i>Stenus</i> spp.	u
<i>Bembidion lampros</i> (Herbst)	oa	<i>Lathrobium</i> sp.	u
<i>Bembidion ?stomoides</i> Dejean	oa-d	? <i>Rugilus</i> sp.	rt
<i>Bembidion guttula</i> or <i>mannerheimi</i>	oa	Paederinae sp.	u
<i>Bembidion (Philochthus)</i> sp. indet.	oa	<i>Atrecus affinis</i> (Paykull)	l
<i>Bembidion</i> spp. and spp. indet.	oa	<i>Leptacinus pusillus</i> (Stephens)	rt-st
<i>Pterostichus</i> spp.	ob	<i>Leptacinus</i> sp.	rt-st
<i>Calathus</i> sp.	oa	<i>Gyrophypnus</i> sp.	rt
? <i>Agonum</i> sp.	oa	<i>Xantholinus linearis</i> (Olivier)	rt-sf
<i>Amara</i> spp.	oa	<i>Xantholinus longiventris</i> Heer	rt-sf
<i>Harpalus rufipes</i> (Degeer)	oa	<i>Xantholinus linearis</i> or <i>longiventris</i>	rt-sf
<i>Harpalus</i> spp.	oa	<i>Philonthus</i> spp.	u
? <i>Bradycellus</i> sp.	oa	? <i>Gabrius</i> sp.	rt
Carabidae spp. indet.	ob	? <i>Heterothops</i> sp.	u
?Hydroporinae sp.	oa-w	Staphylininae sp.	u
<i>Agabus bipustulatus</i> (Linnaeus)	oa-w	<i>Tachyporus ?obtus</i> (Linnaeus)	u
<i>Helophorus aquaticus</i> or <i>grandis</i>	oa-w	<i>Tachyporus</i> sp.	u
<i>Helophorus ?nubilus</i> Fabricius	oa	<i>Tachinus</i> sp.	u
<i>Helophorus</i> spp.	oa-w	<i>Falagria caesa</i> or <i>sulcatula</i>	rt-sf
<i>Cercyon ?nalis</i> (Paykull)	rt-sf	<i>Falagria</i> sp. indet.	rt-sf
<i>Cercyon ?atricapillus</i> (Marsham)	rf-st	Aleocharinae spp.	u
<i>Cercyon ?haemorrhoidalis</i> (Fabricius)	rf-sf	Pselaphidae spp.	u
<i>Cercyon</i> spp. indet.	u	<i>Geotrupes</i> sp.	oa-rf

<i>Aphodius</i> spp.	ob-rf
<i>Oxyomus sylvestris</i> (Scopoli)	rt-sf
<i>Phyllopertha horticola</i> (Linnaeus)	oa-p
<i>Clambus</i> sp.	rt-sf
<i>Cyphon</i> sp.	oa-d
<i>Simplocaria ? semistriata</i> (Fabricius)	oa-p
? <i>Byrrhus</i> sp.	oa-p
<i>Dryops</i> sp.	oa-d
<i>Oulimnius</i> sp.	oa-w
Elateridae sp.	ob
<i>Cantharis ? rustica</i> Fallen	ob
<i>Cantharis</i> sp.	ob
? <i>Grynobius planus</i> (Fabricius)	l
<i>Lyctus linearis</i> (Goeze)	l-sf
<i>Meligethes</i> sp.	oa-p
<i>Rhizophagus ? bipustulatus</i> (Fabricius)	l
<i>Rhizophagus ? parallelocolis</i> Gyllenhal	rt-sf
<i>Rhizophagus</i> sp. indet.	u
<i>Cryptolestes ? ferrugineus</i> (Stephens)	g-ss
<i>Oryzaephilus surinamensis</i> (Linnaeus)	g-ss
<i>Cryptophagus</i> sp.	rd-sf
<i>Atomaria</i> sp.	rd
? <i>Ephistemus globulus</i> (Paykull)	rd-sf
<i>Lathridius minutus</i> group	rd-st
<i>Enicmus</i> sp.	rt-sf
<i>Dienerella</i> sp.	rd-sf
<i>Corticaria</i> sp.	rt-sf
<i>Typhaea stercorea</i> (Linnaeus)	rd-ss
Colydiidae sp.	u
<i>Anthicus</i> sp.	rt
<i>Gastrophysa polygoni</i> (Linnaeus)	oa-p
Chrysomelinae spp.	oa-p
<i>Phyllotreta</i> sp.	oa-p
<i>Longitarsus</i> sp.	oa-p
? <i>Chaetocnema</i> sp.	oa-p
Halticinae spp. A	oa-p
<i>Cassida</i> sp.	oa-p
Rhynchitinae sp.	oa
<i>Apion</i> spp.	oa-p
<i>Phyllobius</i> or <i>Polydrusus</i> sp.	oa-p
<i>Sitona hispidulus</i> (Fabricius)	oa-p
<i>Sitona lepidus</i> Gyllenhal	oa-p
Cossoninae sp.	u
<i>Sitophilus granarius</i> (Linnaeus)	g-ss
<i>Notaris acridulus</i> (Linnaeus)	oa-d-p
<i>Ceutorhynchus ? erysimi</i> (Fabricius)	oa-p
<i>Ceutorhynchus</i> spp.	oa-p
? <i>Rhinoncus</i> sp.	oa-p
Ceuthorhynchinae spp.	oa-p
<i>Gymnetron</i> sp.	oa-p
Curculionidae spp. A	oa
<i>Dryocoetinus villosus</i> (Fabricius)	l
<i>Platypus cylindrus</i> (Fabricius)	l
Coleoptera sp.	u
<b>Arachnida</b>	
* <i>Acarina</i> sp.	u

Table 2. Species lists in rank order for invertebrate macrofossils from samples from the buried soil at Skeldergate. For each sample assemblage the adult Hemiptera (bugs) and Coleoptera (beetles) are listed first, followed by the remaining invertebrates. Weight is in kilogrammes; n = minimum number of individuals; SQ = semi-quantitative (e = estimate; - = fully quantitative, m = 'many', translated as 15 individuals; s = several, translated as 6). ec - ecological code. For translation of ecological codes, see Table 3.

Context: 2,356 Sample: 198 ReM: D  
 Weight: 8.96 E: 0.00 F: 0.00

Notes: Taken from original listing sheet of late 1970s. Entered 16.3.2000.

Taxon	n	sq	ec			
Anotylus nitidulus	24	-	rt	Omalinae sp.	1	- rt
Aphodius sp. A	18	-	ob-rf	Carpelimus ?corticinus	1	- oa-d
Helophorus sp.	14	-	oa-w	Anotylus ?complanatus	1	- rt-sf
Dryocoetinus villosus	13	-	l	Anotylus inustus	1	- rt
Megastemum obscurum	7	-	rt	Anotylus sculpturatus group	1	- rt
Helophorus aquaticus or grandis	6	-	oa-w	Oxytelus sculptus	1	- rt-st
Anotylus rugosus	5	-	rt	Stenus sp. A	1	- u
Amara sp.	3	-	oa	Stenus sp. B	1	- u
Platystethus nitens	3	-	oa-d	Lathrobium sp.	1	- u
Tachyporus sp.	3	-	u	Paederinae sp.	1	- u
Aleocharinae sp. C	3	-	u	Gyrophypnus sp.	1	- rt
Aphodius sp. C	3	-	ob-rf	Xantholinus linearis	1	- rt-sf
Enicmus sp.	3	-	rt-sf	?Gabrieus sp.	1	- rt
Corticaria sp.	3	-	rt-sf	Falagria sp.	1	- rt-sf
Platystethus arenarius	2	-	rf	Aleocharinae sp.	1	- u
Platystethus cornutus group	2	-	oa-d	Aleocharinae sp. B	1	- u
Xantholinus longiventris	2	-	rt-sf	Aleocharinae sp. D	1	- u
Phyllopertha horticola	2	-	oa-p	Aleocharinae sp. E	1	- u
Oryzaephilus ?surinamensis	2	-	g-ss	Aleocharinae sp. F	1	- u
Cryptophagus sp.	2	-	rd-sf	Pselaphidae sp.	1	- u
Atomaria sp.	2	-	rd	Geotrupes sp.	1	- oa-rf
Halticinae sp. A	2	-	oa-p	Aphodius sp. B	1	- ob-rf
Sitona lepidus	2	-	oa-p	Aphodius sp. D	1	- ob-rf
Cossoninae sp.	2	-	u	Oxyomus sylvestris	1	- rt-sf
Carabus sp.	1	-	oa	Simplocaria sp.	1	- oa-p
Bembidion ?lampros	1	-	oa	?Byrrhus sp.	1	- oa-p
Bembidion (Philochthus) sp.	1	-	oa	Oulimnius sp.	1	- oa-w
Bembidion sp. A	1	-	oa	Rhizophagus sp.	1	- u
Pterostichus sp.	1	-	ob	Cryptolestes sp.	1	- ss
?Agonum sp.	1	-	oa	Lathridius minutus group	1	- rd-st
Harpalus sp.	1	-	oa	Dienerella sp.	1	- rd-sf
?Bradycellus sp.	1	-	oa	Anthicus sp.	1	- rt
Helophorus ?nubilus	1	-	oa	?Gastrophysa polygoni	1	- oa-p
Cercyon sp. A	1	-	u	Chrysomelinae sp.	1	- oa-p
Cercyon sp. B	1	-	u	Phyllotreta sp.	1	- oa-p
Cryptopleurum minutum	1	-	rf-st	Longitarsus sp.	1	- oa-p
Hydrobius fuscipes	1	-	oa-w	Halticinae sp. B	1	- oa-p
?Anacaena sp.	1	-	oa-w	Halticinae sp. C	1	- oa-p
Hydrophilinae sp.	1	-	oa-w	Halticinae sp. D	1	- oa-p
Histeridae sp.	1	-	u	Apion sp.	1	- oa-p
Ochthebius sp.	1	-	oa-w	Apion sp. B	1	- oa-p
Silpha atrata	1	-	u	Apion sp. C	1	- oa-p
Silphidae sp.	1	-	u	Phyllobius or Polydrusus sp.	1	- oa-p
Scydmaenidae sp.	1	-	u	Sitona ?hispidulus	1	- oa-p
Omalium sp.	1	-	rt	Sitophilus granarius	1	- g-ss
				Ceutorhynchus ?erysimi	1	- oa-p
				?Rhinioncus sp.	1	- oa-p
				Ceuthorhynchinae sp.	1	- oa-p
				Gymnetron sp.	1	- oa-p
				Curculionidae sp. B	1	- oa
				Curculionidae sp. C	1	- oa
				Coleoptera sp. A	1	- u

*Formicidae sp.	15	m	u
*Hymenoptera Parasitica sp.	15	m	u
*Acarina sp.	15	m	u

**Context: 2,356 Sample: 204** ReM: D

Weight: 7.66 E: 0.00 F: 0.00

Notes: Recorded late 1970s. Entered 16.3.2000.

Taxon	n	sq	ec
Anotylus nitidulus	13	-	rt
Megastemum obscurum	6	-	rt
Aphodius sp. A	4	-	ob-rf
Helophorus sp.	3	-	oa-w
Aphodius sp. B	3	-	ob-rf
Helophorus aquaticus or grandis	2	-	oa-w
Carpelimus sp. B	2	-	u
Xantholinus linearis	2	-	rt-sf
Aleocharinae sp. A	2	-	u
Aleocharinae sp. B	2	-	u
Halticinae sp. A	2	-	oa-p
Lygaeidae sp.	1	-	oa-p
Auchenorhyncha sp.	1	-	oa-p
Dyschirius ?globosus	1	-	oa
Clivina ?fossor	1	-	oa
Trechus secalis	1	-	oa-d
Bembidion lampros	1	-	oa
Bembidion ?stomoides	1	-	oa-d
Bembidion guttula or mannerheimi	1	-	oa
Bembidion sp.	1	-	oa
Amara sp. A	1	-	oa
Amara sp. B	1	-	oa
Harpalus rufipes	1	-	oa
Carabidae sp. A	1	-	ob
Cercyon ?haemorrhoidalis	1	-	rf-sf
Xylodromus ?concinnus	1	-	rt-st
Bledius sp.	1	-	oa-d
Carpelimus ?bilineatus	1	-	rt-sf
Carpelimus sp. A	1	-	u
Platystethus cornutus group	1	-	oa-d
Anotylus ?inustus	1	-	rt
Anotylus rugosus	1	-	rt
Stenus sp. A	1	-	u
Stenus sp. B	1	-	u
?Rugilus sp.	1	-	rt
Leptacinus pusillus	1	-	rt-st
?Philonthus sp.	1	-	u
?Gabrius sp.	1	-	rt
Tachyporus ?obtusus	1	-	u
Tachyporus sp.	1	-	u
Tachinus sp.	1	-	u
Falagria sp.	1	-	rt-sf
Aleocharinae sp. C	1	-	u
Aleocharinae sp. D	1	-	u
Aphodius sp. C	1	-	ob-rf
Aphodius sp. D	1	-	ob-rf
Clambus sp.	1	-	rt-sf
Simpliocaria ?semistriata	1	-	oa-p

Cantharis sp.	1	-	ob
Cryptophagus sp.	1	-	rd-sf
Atomaria sp.	1	-	rd
Chrysomelinae sp. B	1	-	oa-p
Halticinae sp. B	1	-	oa-p
Apion sp. B	1	-	oa-p
Sitona hispidulus	1	-	oa-p
Notaris acridulus	1	-	oa-d-p
Ceutorhynchus sp. A	1	-	oa-p
Ceutorhynchus sp. B	1	-	oa-p
Ceutorhynchus sp. C	1	-	oa-p
Ceuthorhynchinae sp. A	1	-	oa-p
Curculionidae sp. B	1	-	oa
Coleoptera sp. A	1	-	u

*Oligochaeta sp. (egg capsule)	6	s	u
*Acarina sp.	6	s	u
*Hymenoptera sp.	2	-	u
*Daphnia sp. (ephippium)	1	-	oa-w
*Dermaptera sp.	1	-	u
*Bibionidae sp.	1	-	u
*Formicidae sp.	1	-	u

**Context: 2,356 Sample: 266** ReM: D

Weight: 7.00 E: 0.00 F: 0.00

Notes: Recorded late 1970s. Entered 16.3.2000.

Taxon	n	sq	ec
Anotylus nitidulus	38	-	rt
Aphodius sp. C	16	-	ob-rf
Megastemum obscurum	13	-	rt
Helophorus sp. A	12	-	oa-w
Platystethus nitens	9	-	oa-d
Helophorus aquaticus or grandis	6	-	oa-w
Corticaria sp.	6	-	rt-sf
Platystethus cornutus group	5	-	oa-d
Aphodius sp. A	4	-	ob-rf
Aphodius sp. B	4	-	ob-rf
Sitona lepidus	4	-	oa-p
Amara sp. A	3	-	oa
Anotylus rugosus	3	-	rt
Xantholinus linearis or longiventris	3	-	rt-sf
Tachyporus sp.	3	-	u
Aleocharinae sp. D	3	-	u
Aphodius sp. D	3	-	ob-rf
Atomaria sp.	3	-	rd
Sitona hispidulus	3	-	oa-p
Dyschirius sp.	2	-	oa
Ptiliidae sp.	2	-	u
Platystethus arenarius	2	-	rf
Aleocharinae sp. E	2	-	u
Aleocharinae sp. G	2	-	u
Phyllopertha horticola	2	-	oa-p
Cryptolestes ?ferrugineus	2	-	g-ss
Cryptophagus sp.	2	-	rd-sf
Enicmus sp.	2	-	rt-sf
Gastrophysa polygoni	2	-	oa-p

?Chaetocnema sp.	2	-	oa-p	Meligethes sp.	1	-	oa-p
Ceuthorhynchinae sp. B	2	-	oa-p	Rhizophagus ?bipustulatus	1	-	l
Saldidae sp.	1	-	oa-d	Rhizophagus ?parallelocollis	1	-	rt-sf
Auchenorhyncha sp. A	1	-	oa-p	Oryzaephilus surinamensis	1	-	g-ss
Bembidion sp. C	1	-	oa	?Ephistemus globulus	1	-	rd-sf
Bembidion lampros	1	-	oa	Lathridius minutus group	1	-	rd-st
Bembidion sp. B	1	-	oa	Typhaea stercorea	1	-	rd-ss
Pterostichus sp.	1	-	ob	Colydiidae sp.	1	-	u
Pterostichus sp. B	1	-	ob	Anthicus sp.	1	-	rt
Calathus sp.	1	-	oa	Chrysomelinae sp. A	1	-	oa-p
Amara sp. B	1	-	oa	Halticinae sp. A	1	-	oa-p
Harpalus rufipes	1	-	oa	Halticinae sp. B	1	-	oa-p
Harpalus sp. A	1	-	oa	Halticinae sp. C	1	-	oa-p
Harpalus sp. B	1	-	oa	Halticinae sp. D	1	-	oa-p
Harpalus sp. C	1	-	oa	Cassida sp.	1	-	oa-p
?Hydroporinae sp.	1	-	oa-w	Rhynchitinae sp.	1	-	oa
Agabus bipustulatus	1	-	oa-w	Apion sp.	1	-	oa-p
Cercyon ?analys	1	-	rt-sf	Sitophilus granarius	1	-	g-ss
Cercyon ?atricapillus	1	-	rf-st	Notaris acridulus	1	-	oa-d-p
Cercyon sp.	1	-	u	Ceutorhynchus sp. A	1	-	oa-p
Hydrobius fuscipes	1	-	oa-w	Ceutorhynchus sp. B	1	-	oa-p
Histeridae sp.	1	-	u	Curculionidae sp. A	1	-	oa
Ochthebius sp. A	1	-	oa-w	Curculionidae sp. C	1	-	oa
Ochthebius sp. B	1	-	oa-w	Dryocoetinus villosus	1	-	l
?Silphidae sp.	1	-	u	Platypus cylindrus	1	-	l
Omaliinae sp.	1	-	rt	Coleoptera sp. A	1	-	u
Carpelimus ?corticinus	1	-	oa-d				
Carpelimus sp.	1	-	u	*Oligochaeta sp. (egg capsule)	15	m	u
Platystethus ?nitens	1	-	oa-d	*Formicidae sp.	15	m	u
Platystethus nodifrons	1	-	oa-d				
Anotylus sculpturatus group	1	-	rt				
Anotylus ?tetracarinatus	1	-	rt				
Oxytelus sculptus	1	-	rt-st				
Stenus sp. A	1	-	u				
Stenus sp. B	1	-	u				
Atrecus affinis	1	-	l				
Leptacinus sp.	1	-	rt-st				
Philonthus sp. A	1	-	u				
?Heterothops sp.	1	-	u				
Staphylininae sp.	1	-	u				
Falagria caesa or sulcatula	1	-	rt-sf				
Aleocharinae sp. A	1	-	u				
Aleocharinae sp. B	1	-	u				
Aleocharinae sp. C	1	-	u				
Aleocharinae sp. F	1	-	u				
Aleocharinae sp. H	1	-	u				
Pselaphidae sp. A	1	-	u				
Pselaphidae sp. B	1	-	u				
Geotrupes sp.	1	-	oa-rf				
Aphodius sp. E	1	-	ob-rf				
Aphodius sp. F	1	-	ob-rf				
Oxyomus sylvestris	1	-	rt-sf				
Cyphon sp.	1	-	oa-d				
Dryops sp.	1	-	oa-d				
Oulimnius sp.	1	-	oa-w				
Elateridae sp.	1	-	ob				
Cantharis ?rustica	1	-	ob				
?Grynobius planus	1	-	l				
Lyctus linearis	1	-	l-sf				

Table 3. Abbreviations for ecological codes and statistics used for interpretation of insect remains. Lower case codes in parentheses are those assigned to taxa and used to calculate the group values (the codes in capitals). See Table 1 for codes assigned to taxa from the Skeldergate buried soil. Indivs - individuals (based on MNI); No - number.

No taxa	S	Percentage of indivs of grain pests	PNG
Estimated number of indivs (MNI)	N	No decomposer taxa (rt + rd + rf)	SRT
Index of diversity ( )	alpha	Percentage of RT taxa	PSRT
Standard error of alpha	SE alpha	No RT indivs	NRT
No 'certain' outdoor taxa (oa)	SOA	Percentage of RT indivs	PNRT
Percentage of 'certain' outdoor taxa	PSOA	Index of diversity of RT component	alpha RT
No 'certain' outdoor indivs	NOA	Standard error	SEalphaRT
Percentage of 'certain' outdoor indivs	PNOA	No 'dry' decomposer taxa (rd)	SRD Percentage of RD
No OA and probable outdoor taxa (oa+ob)	SOB	taxa	PSRD
Percentage of OB taxa	PSOB	No RD indivs	NRD
No OB indivs	NOB	Percentage of RD indivs	PNRD
Percentage OB indivs	PNOB	Index of diversity of the RD component	alphaRD
Index of diversity of the OB component	alphaOB	Standard error	SEalphaRD
Standard error	SEalphaOB	No 'foul' decomposer taxa (rf)	SRF
No aquatic taxa (w)	SW	Percentage of RF taxa	PSRF
Percentage of aquatic taxa	PSW	No RF indivs	NRF
No aquatic indivs	NW	Percentage of RF indivs	PNRF
Percentage of W indivs	PNW	Index of diversity of the RF component	alphaRF
Index of diversity of the W component	alphaW	Standard error	SEalphaRF
Standard error	SEalphaW	No synanthropic taxa (sf+st_ss)	SSA
No damp ground/waterside taxa (d)	SD	Percentage of synanthropic taxa	PSSA
Percentage D taxa	PSD	No synanthropic indivs	NSA
No damp D indivs	ND	Percentage of SA indivs	PNSA
Percentage of D indivs	PND	Index of diversity of SA component	ALPHASA
Index of diversity of the D component	alphaD	Standard error	SEALPHASA
Standard error	SEalphaD	No facultatively synanthropic indivs	SSF
No strongly plant-associated taxa (p)	SP	Percentage of SF taxa	PSSF
Percentage of P taxa	PSP	No SF indivs	NSF
No strongly P indivs	NP	Percentage of SF indivs	PNSF
Percentage of P indivs	PNP	Index of diversity of SF component	ALPHASF
Index of diversity of the P component	alphaP	Standard error	SEALPHASF
Standard error	SEalphaP	No typical synanthropic indivs	SST
No heathland/moorland taxa (m)	SM	Percentage of ST taxa	PSST
Percentage of M taxa	PSM	No ST indivs	NST
No M indivs	NM	Percentage of ST indivs	PNST
Percentage of M indivs	PNM	Index of diversity of ST component	ALPHAST
Index of diversity of the M component	alphaM	Standard error	SEALPHAST
Standard error	SEalphaM	No strongly synanthropic taxa	SSS
No wood-associated taxa (l)	SL	Percentage of SS taxa	PSSS
Percentage of L taxa	PSL	No SS indivs	NSS
No L indivs	NL	Percentage of SS indivs	PNSS
Percentage of L indivs	PNL	Index of diversity of SS component	ALPHASS
Index of diversity of the L component	alphaL	Standard error	SEALPHASS
Standard error	SEalphaL	No uncoded taxa (u)	SU
No indivs of grain pests (g)	NG	Percentage of uncoded indivs	PNU