

Table 12.1. *Taxonomic composition of the mollusc assemblage*

NISP = Number of Identified Specimens (% = percentage of the total *NISP*); *MNI* = Minimum Number of Individuals (= minimum number of valves for bivalves) (% = percentage of the total *MNI*); broken = more than half of the complete shell or valve; fragment = less than half of the complete shell or valve.

Taxon		NISP		MNI		Complete	Broken	Fragment
			%		%			
Terrestrial gastropods								
Ferussaciidae	<i>Cecilioides tumulorum</i> (Bourguignat, 1856)	71	5.5%	58	6.3%	53	12	6
Helicidae	<i>Helix</i> sp.	224	17.5%	106	11.4%	66	37	121
Hygromiidae	<i>Cernuella virgata</i> (Da Costa, 1778)	11	0.9%	11	1.2%	8	3	-
Hygromiidae	<i>Monacha</i> sp.	1	0.1%	1	0.1%	1	-	-
Hygromiidae	<i>Xeropicta derbentina</i> (Krynicky, 1836)	38	3%	37	4%	30	8	-
Hygromiidae	<i>Xeropicta</i> sp.	1	0.1%	1	0.1%	-	-	1
Hygromiidae	-	140	10.9%	88	9.5%	49	36	55
Zonitidae	<i>Eopolita protensa</i> (Férussac, 1832)	8	0.6%	7	0.8%	5	3	-
Freshwater gastropods								
Melanopsidae	<i>Melanopsis costata</i> (Olivier, 1804)	1	0.1%	1	0.1%	-	1	-
Melanopsidae	<i>Melanopsis praemorsa</i> (Linnaeus, 1789)	488	38.1%	425	45.8%	97	335	56
Neritidae	<i>Theodoxus</i> sp.	8	0.6%	8	0.9%	8	-	-
Freshwater bivalves								
Sphaeriidae	<i>Pisidium</i> sp.	24	1.9%	24	2.6%	13	9	2
Unionidae	<i>Anodonta</i> sp.	3	0.2%	1	0.1%	-	-	3
Unionidae	cf. <i>Potomida</i> sp.	5	0.4%	1	0.1%	-	-	5
Unionidae	<i>Unio mancus</i> Lamarck, 1819	14	1.1%	11	1.2%	3	5	6
Unionidae	<i>Unio</i> sp.	49	3.8%	7	0.8%	-	-	49
Unionidae	-	8	0.6%	1	0.1%	-	-	8
Marine gastropods								
Cassidae	<i>Semicassis granulata undulata</i> (Gmelin, 1791)	2	0.2%	1	0.1%	-	-	2
Cerithiidae	<i>Cerithium vulgatum</i> Bruguière, 1792	1	0.1%	1	0.1%	-	1	-
Columbellidae	<i>Columbella rustica</i> (Linnaeus, 1758)	2	0.2%	1	0.1%	1	1	-
Conidae	<i>Conus ventricosus</i> Gmelin, 1791	3	0.2%	1	0.1%	-	2	1
Conidae	<i>Conus</i> sp.	2	0.2%	1	0.1%	-	2	-

Cypraeidae	<i>Monetaria annulus</i> (Linnaeus, 1758)	2	0.2%	2	0.2%	2	-	-
Cypraeidae	<i>Monetaria moneta</i> (Linnaeus, 1758)	1	0.1%	1	0.1%	1	-	-
Muricidae	<i>Bolinus brandaris</i> (Linnaeus, 1758)	1	0.1%	1	0.1%	1	-	-
Muricidae	<i>Hexaplex trunculus</i> (Linnaeus, 1758)	4	0.3%	2	0.2%	1	1	2
Muricidae	<i>Stramonita haemastoma</i> (Linnaeus, 1767)	1	0.1%	1	0.1%	-	1	-
Muricidae	-	1	0.1%	1	0.1%	-	-	1
Nassariidae	<i>Nassarius circumcinctus</i> (Adams, 1852)	2	0.2%	1	0.1%	2	-	-
Nassariidae	<i>Nassarius gibbosulus</i> (Linnaeus, 1758)	13	1%	5	0.5%	12	1	-
Patellidae	<i>Patella caerulea</i> Linnaeus, 1758	7	0.5%	5	0.5%	3	2	2
Patellidae	<i>Patella ulyssiponensis</i> Gmelin, 1791	4	0.3%	4	0.4%	2	2	-
Patellidae	<i>Patella</i> sp.	2	0.2%	1	0.1%	-	1	1
Ranellidae	<i>Charonia variegata</i> (Lamarck, 1816)	1	0.1%	1	0.1%	-	-	1
Tonnidae	<i>Tonna galea</i> (Linnaeus, 1758)	1	0.1%	1	0.1%	-	-	1
Trochidae	<i>Phorcus turbinatus</i> (Born, 1778)	1	0.1%	1	0.1%	-	-	1
Trochidae	-	1	0.1%	1	0.1%	-	-	1
Turritellidae	<i>Turritella turbona</i> Monterosato, 1877	3	0.2%	1	0.1%	-	2	1
Marine bivalves								
Arcidae	-	1	0.1%	1	0.1%	-	-	1
Cardiidae	<i>Cerastoderma glaucum</i> (Bruguière, 1789)	72	5.6%	72	7.8%	49	23	-
Cardiidae	-	8	0.6%	1	0.1%	-	1	7
Donacidae	<i>Donax trunculus</i> Linnaeus, 1758	3	0.2%	3	0.3%	2	1	-
Glycymerididae	<i>Glycymeris</i> sp.	20	1.6%	11	1.2%	6	5	9
Mesodesmatidae	<i>Donacilla cornea</i> (Poli, 1795)	14	1.1%	14	1.5%	10	4	-
Mytilidae	<i>Mytilus galloprovincialis</i> Lamarck 1819	10	0.8%	1	0.1%	-	-	10
Spondylidae	<i>Spondylus gaederopus</i> Linnaeus, 1758	1	0.1%	1	0.1%	-	1	-
Marine cephalopods								
Sepiidae	<i>Sepia</i> sp.	3	0.2%	1	0.1%	-	-	3
Total		1281		927		425	500	356
Unidentified		29				-	-	29
Grand total		1310				425	500	385

Table 12.1 *Taxonomic composition of the mollusc assemblage (ctd.)*

Table 12.2. *Chronological composition of the mollusc assemblage (NISP).*

Included are the specimens from units that could be assigned to a specific period.

Taxon		Early Bronze Age	Middle Bronze Age	Late Bronze Age	Early Iron Age	Late Iron Age	Hellenistic	Byzantine	Medieval
Terrestrial gastropods									
Ferussaciidae	<i>Cecilioides tumulorum</i> (Bourguignat, 1856)	-	4	35	6	4	2	18	2
Helicidae	<i>Helix</i> sp.	5	6	11	39	9	18	33	88
Hygromiidae	<i>Cerneuella virgata</i> (Da Costa, 1778)	-	-	1	3	4	-	-	-
Hygromiidae	<i>Monacha</i> sp.	-	-	-	-	1	-	-	-
Hygromiidae	<i>Xeropicta derbentina</i> (Krynicky, 1836)	2	-	3	7	4	-	16	4
Hygromiidae	<i>Xeropicta</i> sp.	-	-	-	-	-	-	-	1
Hygromiidae	-	-	27	19	10	19	22	38	4
Zonitidae	<i>Eopolita protensa</i> (Férussac, 1832)	-	-	-	-	-	-	7	-
Total		7	37	69	65	41	42	112	99
% of grand total period		5.6%	68.5%	33.3%	39.6%	21.8%	48.8%	48.9%	91.7%
% of grand total category		1.5%	7.8%	14.6%	13.8%	8.7%	8.9%	23.7%	21%
Freshwater gastropods									
Melanopsidae	<i>Melanopsis costata</i> (Olivier, 1804)	-	-	-	-	-	-	-	1
Melanopsidae	<i>Melanopsis praemorsa</i> (Linnaeus, 1789)	96	11	75	43	89	34	47	6
Neritidae	<i>Theodoxus</i> sp.	-	-	-	1	4	1	2	-
Total		96	11	75	44	93	35	49	7
% of grand total period		76.8%	20.4%	36.2%	26.8%	49.5%	40.7%	21.4%	6.5%
% of grand total category		23.4%	2.7%	18.3%	10.7%	22.7%	8.5%	12%	1.7%
Freshwater bivalves									
Sphaeriidae	<i>Pisidium</i> sp.	-	-	1	22	-	-	-	-
Unionidae	<i>Anodonta</i> sp.	-	-	-	-	-	-	3	-
Unionidae	cf. <i>Potomida</i> sp.	-	-	1	-	-	-	4	-
Unionidae	<i>Unio mancus</i> Lamarck, 1819	-	-	-	-	8	-	1	-
Unionidae	<i>Unio</i> sp.	4	-	9	-	2	2	30	-
Unionidae	-	-	-	2	-	-	-	4	-

		Total	4	0	13	22	10	2	42	0
		% of grand total period	3.2%	0%	6.3%	13.4%	5.3%	2.3%	18.3%	0%
		% of grand total category	4.3%	0%	14%	23.7%	10.8%	2.2%	45.2%	0%
Marine gastropods										
Cassidae	<i>Semicassis granulata undulata</i> (Gmelin, 1791)		-	-	-	1	-	-	-	-
Cerithiidae	<i>Cerithium vulgatum</i> Bruguière, 1792		-	1	-	-	-	-	-	-
Columbellidae	<i>Columbella rustica</i> (Linnaeus, 1758)		-	-	2	-	-	-	-	-
Conidae	<i>Conus ventricosus</i> Gmelin, 1791		-	-	1	-	1	-	1	-
Conidae	<i>Conus</i> sp.		-	-	2	-	-	-	-	-
Cypraeidae	<i>Monetaria annulus</i> (Linnaeus, 1758)		-	-	-	1	1	-	-	-
Cypraeidae	<i>Monetaria moneta</i> (Linnaeus, 1758)		-	-	-	-	1	-	-	-
Muricidae	<i>Bolinus brandaris</i> (Linnaeus, 1758)		-	-	-	-	1	-	-	-
Muricidae	<i>Hexaplex trunculus</i> (Linnaeus, 1758)		1	-	-	-	-	-	2	-
Muricidae	<i>Stramonita haemastoma</i> (Linnaeus, 1767)		1	-	-	-	-	-	-	-
Muricidae	-		-	-	-	1	-	-	-	-
Nassariidae	<i>Nassarius circumcinctus</i> (Adams, 1852)		-	-	-	-	1	-	-	-
Nassariidae	<i>Nassarius gibbosulus</i> (Linnaeus, 1758)		-	-	7	-	1	-	1	-
Patellidae	<i>Patella caerulea</i> Linnaeus, 1758		5	2	-	-	-	-	-	-
Patellidae	<i>Patella ulyssiponensis</i> Gmelin, 1791		4	-	-	-	-	-	-	-
Patellidae	<i>Patella</i> sp.		1	-	-	-	-	-	-	-
Ranellidae	<i>Charonia variegata</i> (Lamarck, 1816)		-	-	-	-	-	-	1	-
Tonnidae	<i>Tonna galea</i> (Linnaeus, 1758)		-	-	-	1	-	-	-	-
Trochidae	<i>Phorcus turbinatus</i> (Born, 1778)		-	-	1	-	-	-	-	-
Trochidae	-		-	-	-	-	1	-	-	-
Turritellidae	<i>Turritella turbona</i> Monterosato, 1877		1	1	-	1	-	-	-	-
		Total	13	4	13	5	7	0	5	0
		% of grand total period	10.4%	7.4%	6.3%	3%	3.7%	0%	2.2%	0%
		% of grand total category	27.7%	8.5%	27.7%	10.6%	14.9%	0%	10.6%	0%
Marine bivalves										
Arcidae	-		-	-	-	1	-	-	-	-
Cardiidae	<i>Cerastoderma glaucum</i> (Bruguière, 1789)		1	-	20	12	25	4	-	2
Cardiidae	-		1	-	4	2	1	-	-	-
Donacidae	<i>Donax trunculus</i> Linnaeus, 1758		-	-	-	-	1	1	1	-

Glycymerididae	<i>Glycymeris</i> sp.	2	-	2	2	4	-	5	-
Mesodesmatidae	<i>Donacilla cornea</i> (Poli, 1795)	-	-	6	-	-	-	-	-
Mytilidae	<i>Mytilus galloprovincialis</i> Lamarck 1819	-	-	-	-	-	-	10	-
Spondylidae	<i>Spondylus gaederopus</i> Linnaeus, 1758	-	-	-	-	1	-	-	-
Total		4	0	32	17	32	5	16	2
% of grand total period		3.2%	0%	15.5%	10.4%	17%	5.8%	7%	1.9%
% of grand total category		3.7%	0%	29.6%	15.7%	29.6%	4.6%	14.8%	1.9%
Marine cephalopods									
Sepiidae	<i>Sepia</i> sp.	-	-	-	-	-	-	3	-
Total		124	52	202	153	183	84	227	108
Unidentified		1	2	5	11	5	2	2	-
Grand total		125	54	207	164	188	86	229	108

Table 12.2 (ctd.)

Table 12.3. *Wear patterns on the freshwater mussel tools.*

*Combined evidence of the 1994-1998 and 2007-2011 assemblages. One specimen is not included, because it is not clear whether it is a left or a right valve. The 'left' and 'right' valves, and 'anterior', 'posterior', 'dorsal' and 'ventral' margins of bivalve shells are determined by anatomical features reflected in the morphology of the shell and on its inner surface. Detailed descriptions are found in most reference works on bivalves (e.g. Killeen et al. 2004, 18). When considering the *Unio mancus* valves under study here, an easy way to distinguish the different shell parts is to position the valves as in Photo 12.2, with the outer surface visible and the umbo upward. The ventral side is at the bottom. The dorsal side is at the top, where the umbo is. The umbo inclines to the left or to the right. The side towards which it is directed is anterior; the opposite side is posterior. The umbo inclines left on a left valve and right on a right valve.*

	Left valve	Right valve	Total
Wear anterior	3	1	4
Wear posterior	2	5	7
Wear anterior and posterior	3	0	3
Total	8	6	14

Table 12.4. *Chronological distribution of the ornaments made from marine shells.*

Included are the objects from units that could be assigned to a specific period.

	Early Bronze Age	Middle Bronze Age	Late Bronze Age	Early Iron Age	Late Iron Age	Hellenistic	Byzantine	Medieval
Holed Nassariidae	-	-	4	-	2	-	1	-
Holed Nassariidae (unfinished)	-	-	3	-	-	-	-	-
Holed Conidae	-	-	3	-	1	-	-	-
Holed Columbelloidea	-	-	1	-	-	-	-	-
Holed Turritellidae	1	-	-	1	-	-	-	-
Holed Cerithiidae	-	1	-	-	-	-	-	-
Holed Muricidae	-	-	-	-	1	-	1	-
Holed Patellidae	1	-	-	-	-	-	-	-
Holed <i>Charonia</i> spire	-	-	-	-	-	-	1	-
Holed Cypraea (Indopacific)	-	-	-	1	2	-	-	-
Holed Glycymerididae	-	-	1	-	3	-	1	-
Holed Spondylidae	-	-	-	-	1	-	-	-
<i>Phorcus</i> ring	-	-	1	-	1	-	-	-
Total	2	1	13	2	11	0	4	0

