Figure 3-175 General view of Tell el-Kerkh cemetery

Figure 3-176 Kerkh cemetery Layer 7

Figure 3-177 Str. 827, communal building (kitchen)

Figure 3-178 Kerkh cemetery Layer 6

Figure 3-179 Burial groups in Kerkh cemetery Layer 6

Figure 3-180 Kerkh cemetery Layer 5

Figure 3-181 Burial groups in Kerkh cemetery Layer 5

Figure 3-182 Kerkh cemetery Layer 4

Figure 3-183 Burial groups in Kerkh cemetery Layer 4

Figure 3-184 Number of Individuals accompanied with grave goods

Figure 3-185 Distribution of grave goods in the cemetery

Figure 3-186 Distribution of grave goods based on age groups

Figure 3-187 Gender-based analyses of grave goods

Figure 3-188 Type of grave goods in the cemetery

Figure 4-1 Map of Tell Sabi Abyad showing the location of graves in each operation (Akkermans 2008, Fig. 2, p. 638)

Date (B.C.)	Period	Balikh Sequence	Tell Sabi Abyad Operations I	II	III	IV	V
5700		IIIC					
5800	Early Halaf	IIIB	level 1 level 2				
5900			level 3	level 1			
6000	Transitional	IIIA	levels 4–7	levels 2, 3, 4?			phase III
6100	Pre-Halaf	IIC	level 8 level 9				phase II
6200			level 10				
6300		IIB?	level 11		level 1	level 1 level 2	phase I
6400					level 2		
6500	Early Pottery Neolithic	IIA			level 3		
6600					level 4		
6700							
6800							
6900							
7000	Late PPNB	I					

Figure 4-2 Stratigraphy and chronology of Tell Sabi Abyad (Akkermans et al. 2006, Table 1, p. 127)

Figure 4-3 Plan of the Burnt Village in Operation I at Tell Sabi Abyad (Akkermans et al. 2014, Fig. 2.29, p. 69)

Figure 4-4 Infant remains in the Str. 166 at Salat Cami Yanı (Miyake et al. 2009, Fig. 4, p. 79)

Topography and Hydrology

Figure 4-5 Water resources in Asi-Orontes River Basin (Al Dbiyat and Geyer 2015, p. 2)

Table 1 Burial locations in the Near East

Period	Region		Site Name	No. of Burials Individuals	Discribtion	Referernce
Natufian	Southern Levant	Early Natufian	Kebara Cave	Forty-eight Natufian individuals were uncovered.	Burials were discovered in two assemblages in the cave, at the entrances of the cave and at the bottom.	Bocquentin 2003; Bar-Yosef et al. 1992; Meignen et al. 2017
			Wadi Hammeh 27	At least seven individuals were uncovered	Primary inhumations interred beneath residential areas, collective burial comprised multi burials and burials contain fragmented human remains. It was common to bury the deceased beneath the residential structures.	Webb and Edwards 2002, 2013
		Late Natufian	Nahel Oren	Remains of forty-five humans were uncovered in the graveyard.	Various stone installations, hearths and human remains characterized the graveyard. Most of the burials are adults, buried individually with two cases of double inhumation. A hearth surrounded by stone was uncovered in the graveyard. Several skeletons were placed near and around this hearth.	Stekelis and Yizraely 1963; Bocquentin 2003
			Hayonim Cave	Sixteen graves containing forty-eight burials were uncovered	The graves and the dwelling structures were always separated. In the Early Natufian, graves were located in the rear of the cave, whereas in the later stages, they were represented mainly by burials. The graves were located in the front of the cave with several flimsy dwelling structures located in the inner part of the cave.	Belfer-Cohen 1988; Bocquentin 2003
			Shukbah Cave	At least seven burials	The graves were discovered inside the cave. Individual burials were interred close to each other, however, a group burial of three individuals was also uncovered.	Garrod 1942; Bocquentin 2003; Weinstein-Evron 2003
			Raqefet Cave	Seventeen burials	The burials were uncovered in Locus 1 and 3 in a place dedicated mainly to funeral activities. Grouping burials is notable at Raqefet cave, which may refer to family units.	Lengyel et al. 2013; Nadel et al. 2008, 2009
			El-Wad Cave	Seventy individuals	Seventy individuals were uncovered from the cave chambers (I and II) and its terrace (LN).	Bocquentin 2003
	Northern Levant		Abu Hureyra 1	_	The human remains are limited to teeth, vertebrae, and bones. No complete skeletons. One amture adult skull was identified referring to skull removal practice.	Molleson 2000

Pre-Pottery Neolithic A (PPNA)	Northern Levant	Tell Mureybet	Twelve individuals	Individuals belong to Phase IIIB (end of PPNA) and the transition period from PPNA to PPNB, and phase IVB (Middle NBPP).	Chamel 2014
		Cheick Hassan	Few individuals	Individuals dated to the Mureybet IIIB 10, the final PPNA period.	
		Dja'de el-Mughara	Five individuals	Individuals were documented from phase DJ I and DJ I final.	
		Qaramel	Thirty-four individuals were recovered from twenty-three graves	These graves were discovered in the southernmost part of the excavation area. The graves were buried beneath the floor and walls of the structures or outside in the close vicinity.	Mazurowski and Kanjou 2012; Kanjou et al. 2015
	Anatolia	Göbekli Tepe	No burials were uncovered	Excavations have uncovered several circular-oval sanctuaries with immense T shape limestone pillars that supported the roof.	Schmidt, 2011, 2011a, 2012
	Southern Levant	Wadi Faynan 16	> forty burials	More than forty adult, juvenile and infant burials from various PPNA contexts were uncovered. Burials were mainly uncovered beneath structures floors, beneath walls also were found in midden deposits.	Mithen et al. 2016
		Jericho	c. 272 PPNA individuals identified	Burials were uncovered mainly inside residential structures and nun or special structures. The grave was cut off by the floor, and the deceased were buried beneath the floor.	Kenyon 1981; Cornwall 1981
		Netiv Hagdud	Twenty-two graves have been uncovered	Most graves contained one skeleton buried in a flexed position within a shallow pit. Burials were found beneath buidling structure floors, or in open spaces or yards or in the infill of abandoned houses.	Bar-Yosef et al. 1991; Belfer-Cohen et al. 1990
	Northern Levant	Abu Hureyra 2	One hundred and two burials were uncovered	The majority of burials were uncovered in houses, with the remainder outside houses in the yard within shallow pits. The indoor burials were found in two contexts: beneath the floor of the rooms, or in the mudbrick walls.	Moore, Molleson and Legge 2000
		Dja'de el-Mughara	Twenty-six individuals uncovered at DJII. DJIII revealed about eighty-five individuals, more than the seventy recovered from the	Burial were uncovered inside the structure building, near walls and close adjacent of the buildings. The large number of burials uncovered beneath the floor of the "House of the Dead".	Baker et al. 2015; Coqueugniot 2017; Coqueugniot et al. 2015; Chamel 2014
		Tell Aswad	More than 50 individuals were uncovered	Burials were associated with the dwelling structures. They were buried inside and sometimes outside of the buildings. Burials were also uncovered in two funerary areas dedicated to group burials and located on the edge of the settlement and dated back to the end of the Middle PPNB or the beginning of the Late PPNB.	Stordeur et al. 2006; Stordeur and Khawam 2007

Pre-Pottery Neolithic B (PPNB)	Central Levant		Tell Qarassa	A minimum number of 25 individuals were uncovered	Burials were uncovered from 18-funeral context. The burials were interred in the houses after abandoned. They were found within and outside of the wall structure. Also, Secondary burials in various context were uncovered inside the structure.	Ibáñez et al. 2010; Santana et al. 2015
			Beisamoun	Forteen burials revealed fifteen individuals	Burial pits were not associated with contemporaneous floors except in limited cases. The graves were most frequently dug into fills. However, they are sometimes closely associated with abandoned features such as ancient walls.	Bocquentin et al. 2014
	Southern Levant		Kfar HaHoresh	More than sixty individuals were uncovered	Human burials were associated with L shape walls and they had been interred under lime plaster surfaces. Skull caches were uncovered. Also, a unique human animal deposit was found at the "*Bos* pit".	Goring-Morris and Horwitz 2007
			Yiftahel	Seven individuals were uncovered	The burials were uncovered beneath the un/plastered floor of structures and in the debris of the abandoned structures.	Arensburg, Garfinkel and Hershkovitz 1986
			Ain Gazal	eighty-one individuals were recovered from the MPPNB period. Thirty-four burials excavated from PPNC deposits	Three type of burial were uncovered in the MPPNB; Subfloor and courtyard decapitated burials, courtyard intact skulls and infant burials.	Rollefson 2000
	Anatolia		Çayönü	Seventy skulls were recovered from the late phase of "Skull Building". Remains of at least 400-450 individuals were uncovered from the building's five phases.	Burials in the First stage were buried in buried in pits in open spaces, or beneath floors In the second stage, burials were buried beneath the building floor, between the walls and in courtyards. The “Skull Building” began to be used.	Özdogan and Özdogan 1989, 1998
	Norhten Levant	Rouj Basin	Tell el-Kekrh	Two hundred and forty one individuals	Burials were interred within outdoor communal cemetery allocated only for burials. A small number of individuals were buried in the remnant of the structures after abandoned. The graves shape and size was differed based on the number of deceased.	Tsuneki 2013; Tsuneki et al. 2011.
		Upper Balikh Valley	Sabi Abyad	One hundred and ninety two graves from Operation III	This part was not dedicated mainly to the dead, but domestic structures were identified.	Plug, van der Plicht and Akkermans 2014; Plug and Nieuwenhuyse 2018
				Sixteen burial from Operatin I	This part of the tell was dedicated to child burials. The grave was dug into the floor of the building, next or through the walls and in the fill of the abandoned settlement.	Akkermans 2008; Otte, Smits and Akkermans 2014

Pottery Neolithic (PN)		Euphrates Valley	Bouqras	Remains of six individuals uncoovered in the Charnel House	All the burials were uncovered from the House 12 in Level 3. Three in the room 1, one in room 2, one in room 3 and one in room 6. Four individuals were on the roof when the fire occurred.	Akkermans, and Schwartz 2003; Akkermans, Fokkens and Waterbolk 1981; Merrett and Meiklejohn 2007
	Anatolia	Upper Tigris	Hakemi Use	Ninety-five individuals were uncovered from eighty-nine graves	The deceased were interred beneath the floor of the houses. However, it is not clear whether they were buried in the house during its use or after being abandoned.	Tekin 2010; Erdal 2013
			Salat Cami Yanı	Seven infant burials uncovered at Str. 166	Burials were uncovered within the building's small room. All burials were infant, no adults were uncovered. Similar pattern of interring infants was uncovered in two other buildings.	Miyake et al. 2009
		Central Anatolia	Köşk Höyük	Eighty-eight burial containing eighty-two individuals	The deceased were buried inside houses beneath walls or benches. The open spaces between the houses sometimes formed the wall of the grave and mud-bricks closed the open side.	Bonogofsky 2005; Öztan 2011
		SE Anatolia	Domuztepe	A minimum of thirty-six individals were uncovered from the "Death pit"	The number of the burials is limited at the site, and all funerary activities occurred in Operation I.	Campbell 2007/2008; Kansa et al. 2009
		NE Anatolia	Ilipinar	Forty-eight burials	The burials were uncovered were uncovered from the Neolithic cemetery located at the edge of the settlement. The cemetery was utiised for males, females and children (but must were neonate).	Alpaslan Roodenberg 2008; Roodenberg and Roodenberg 2013

Table 2 Chronology of the Rouj Basin

Rouj Basin Chronology	Supposed years based on 14^{C} dating (cal.)	Levantine Chronology
Rouj 2d	6100 - 5800 BC	Late PN
Rouj 2c	6600 - 6100 BC	Middle PN
Rouj 2a-2b	7000 - 6600 BC	Early PN
Rouj 1c	7600 - 7000 BC	Late PPNB
Rouj 1a	8700 - 8300 BC	Early PPNB

Table 3 Tell el-Kerkh cemetery burial list (until 2010)

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
1	-	**502**	E271c	4	Juvenile, 2-3yrs.	-	Primary	L	S-N	Upward	-	-	1
2	-	**504**	E271c	4	Perinatal	-	Unknown	-	-	-	-	-	1
3	-	**507**	E271a	4	Juvenile, 8-10yrs.	-	Primary	R	NE-SW	-	DFBW bowl: 1	-	1
4	-	**513**	E271a	4	Perinatal	-	Secondary	-	-	-	Stone animal figurine: 1	-	1
5	-	**519**	E271a	4	Perinatal	-	Primary	R	W-E	-	-	-	1
6	-	**521**	E271c	4	Subadult, 12-15yrs.	-	Primary	L	W-E	Downward	-	-	1
7	-	**524**	E271c	4	Middle adult	Probable female	Primary	L	E-W	S	-	-	1
8	-	**527**	E271c	4	Infant, B-3mos.	-	Primary	R	E-W	-	-	-	1
9	-	**528**	E271c	4	Juvenile, 1-3yrs.	-	Unknown	-	-	-	-	-	1
10	-	**533**	E271c	4	Middle adult, 40-50yrs.	Female	Primary	P	N-S	Downward	-	-	1
11	-	**710**	E271d	4	Old adult	Probable male	Secondary	-	-	NE	-	-	1
12	-	**712**	E271d	4	Middle adult	Probable female	Primary	R	NW-SE	Downward	flint balde: 2	-	1
13	-	**713**	E271b	4	Juvenile, 10-12yrs.	-	Primary	L	W-E	NE	-	-	1
14	-	**715**	E271d	4	Adult	Probable male	Primary	R	N-S	W	stone vessel: 1 shell bead: 1	-	1
15	-	**716**	E271b	4	Adult	Probable male	Primary	L	E-W	S		-	1
16	-	**717**	E271b	4	Birth-2yrs.	-	Secondary	-	-	-		-	1
17	-	**725**	E271d	4	Young adult	Probable female	Primary	S	N-S	S	-	-	1
18	-	**726**	E271d	4	Infant, 9-18mos.	-	Primary	R	W-E	S	-	-	1
19	-	**729**	E271d	4	Young adult	Probable female	Primary	S	N-S	S	stone stamp seal: 1	-	1
20	-	**730**	E271d	4	Juvenile, 2-3yrs.	-	Primary (disturbed)	-	-	-	-	-	1

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
21	-	**738**	E271b	4	Infant, B-3mos.	-	Primary (disturbed)	L	W-E	S	-	-	1
22	-	**739**	E271b	4	Middle adult	Probable male	Primary	R	NE-SW	SW	clay beads: 3 stone beads: 2 shell beads: 2	-	1
23	-	**746**	E271b	4	1. Juvenile, 1-2yrs.	-	Cremation	-	-	-	-	-	2
					2. Juvenile, 6-8yrs.	-				N			
24	-	**748**	E271b	5	1. Young adult	1. Probable male	1.Primary	P	1. NW-SE	Downward	-	-	3
					2. Infant	2. -	2.Unknown	-	2. -	-	stone bead: 1		
					3. Juvenile, 1-2yrs.	3. -	3.Unknown	-	3. -	-	flint borer: 1		
25	-	**750**	E271d	5	Juvenile, 5-6yrs.	-	Primary	P	NW-SE	-	-	-	1
26	-	**752**	E271b	4	Adult	Probable female	Primary	R	NW-SE	-	-	-	1
27	-	**756**	E271b	4	Juvenile	-	Scondary	-	-	-	-	-	1
28	-	**757**	E271b	4	Juvenile, 7-8yrs.	-	Primary	R	S-N	NE	bone awl: 1	-	1
29	-	**803**	E271b	5	Adult	Probable female	Primary	R	NW-SE	Upward	bone bead: 1 conch shell: 1	-	1
30	-	**807**	E291b	5	Middle adult, 35-40yrs.	Male	Primary	S	N-S	Upward	stone bead: 1 flint drill: 1	-	1
31	-	**822**	E271b	5	Juvenile, 8-10yrs.	-	Unknown	-	-	-	stone beads: 19 shell bead: 1	-	1
32	-	**823**	E271b	5	Subadult, 14-16yrs.	-	Primary	L	N-S	E	shell bead: 1 bone needle: 1	-	1
33	-	**825**	E271b	5	Juvenile, 10-12yrs.	-	Unknown	-	-	-	-	-	1

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
34	-	**826**	E271b	5	Subadult, 14-15yrs.	-	Primary	L	NE-SW	SE	-	-	1
35	-	**828**	E271d	5	Fetal	-	Primary	R	NE-SW	NW	-	-	1
36	-	**829**	E271b	5	Juvenile, 2-3yrs.	-	Primary	L	W-E	N-E	-	-	1
37	-	**830**	E271b	5	Adult	Probable male	Primary	R	NW-SE	SW	stone bead: 1	-	1
38	-	**832**	E271d	5	1. Infant	-	1. Unknown	-	-	-	-	DFBW: 1	5
					2. Juvenile	-	2. Unknown	-	-	-	-		
					3. Juvenile	-	3. Unknown	-	-	-	-		
					4. Adult	-	4. Primary (disturbed)	-	-	-	Stone beads: 6 Shell bead: 1		
					5. Adult	-	5. Unknown	-	-	-	-		
39	-	**834**	E271b	5	Juvenile, 2-3yrs.	-	Primary	L	W-E	N	-		1
40	-	**836**	E271b	5	Middle adult	Male	Primary	L	W-E	N	conch shell: 1		1
41	-	**838**	E271b	5	Perinatal	-	Primary	L	W-E	-	-		1
42	-	**841**	E271b	5	Perinatal	-	Primary	S	SE-NW	-	-		1
43	-	**851**	E271b	5	1. Infant, 10-12mos.	-	1. Unknown	-	-	-	cowrie shell bead: 1		1
					2. Adult	-	2. Primary (disturbed)	-	-	-			1
44	-	**852**	E271b	5	1. Adult	1. Probable male	Unknown	-	-	-	-	-	2
					2. Juvenile, 1-2yrs.	2. -		-	-	-			
45	-	**902**	E271a	5	Juvenile, possibly 1-2yrs.	-	Unknown	-	-	-	-		1
46	-	**904**	E271a	5	Young adult	Male	Primary	L	NE-SW	S	-		1

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
47	-	**908**	E271c	6	Sub-adult, 11-13yrs.	-	Primary	L	NE-SW	SW	-		1
48	-	**909**	E271a	5	Young adult	Probable female	Primary	L	NE-SW	SE	stone stamp seal: 1		1
49	-	**910**	E271a	6	1. Adult	-	Unknown	-	-	-	-	-	3
					2. Adult (probable older)	-		-	-	-			
					3. Infant (6mos.-1yr.)	-		-	-	-			
50	-	**911**	E271a	5	Perinatal	-	Primary	S	NW-SE	-	-		1
51	-	**912**	E271a	5	Infant	-	Secondary	-	-	-	-		1
52	-	**913**	E271a	6	Juvenile, 1-2yrs.	-	Primary	P	NE-SW	N	stone bead: 20		1
53	-	**914**	E271b	6	Juvenile, 3-4yrs.	-	Primary	R	NE-SW	SW	stone beads: 8		1
54	-	**918**	E270b	5	Infant, 4-6mos.	-	Primary (disturbed)	-	R	-	-		1
55	-	**920**	E271a	6	Juvenile, 3-4yrs.	-	Primary	S	NE-SE	SE	-		1
56	-	**921**	E271b	6	Young adult	Male	Primary	L	S-N	W	-		1
57	-	**922**	E271b	6	Adult	-	Unknown	-	-	-	stone bead: 2 shell bead: 1		1
58	-	**924**	E271b	6	Young adult	Female	Primary	L	E-W	S	tusk shell bead: 1		1
59	-	**925**	E270a	6	Fetal	-	Primary	S	NW-SE	-	-		1
60	-	**926**	E270a	6	Adult	Probable female	Primary	R	N-S	-	shell bead: 4 bone bead: 2 stone bead: 1		1
61	-	**927**	E270b	6	1. Young adult	1. Female	1. Primary	R	W-E	-	pottery sherd 1 shell 1 DFBW bowl: 1 stone bead: 3 shell bead: 2 bone bead: 1		3
					2. Fetal	2. -	2. Secondary	-	-	-			
					3. Juvenile, 4-5yrs.	3. -	3. Secondary	-	-	-			

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
62	-	**930**	E270b	6	1. Adult	1. Probable female	Secondary	-	-	-	-		3
					2. Adult	2. Female		-	-	-			
					3. Adult	3. Female		-	-	-			
63	-	**931**	E271d	6	Adult	-	Secondary	-	-	S	-		1
64	-	**932**	E271a	6	1. Adult	1. Male	Cremation	-	-	-	-	-	7
					2. Subadult	2. -							
					3. Juvenile	3. -							
					4. Fetus	1. -	Secondary						
					5. Juvenile	2. -							
					6. Adult	3. Probable male							
					7. Juvenile, 1-2yrs.	4. -							
65	-	**933**	E271d	6	Fetal	-	Primary	R	NE-SE	-	-		1
66	-	**941**	E271d	6	Middle adult	Probable female	Primary	L	E-W	S	bone spatula: 1 flint point: 1 hammer stone: 1		1
67	-	**942**	E271d	6	-	-	Secondary	-	-	-	-		1
68	-	**946**	E271c	6	Perinatal (possible late-term fetal)	-	Primary	R	S-N	E	stone bead: 1		1
69	-	**977**	E270b	6	Perinatal	-	Primary	L	S-N	-	-		1
70	-	**981**	E270b	6	Fetal	-	Urn burial	-	-	-	-		1
71	-	**984**	E271a	6	Young adult	Probable male	Primary (disturbed)	-	-	Upward	stone bead: 1 flint blade: 1		1
72	-	**985**	E271a	6	Juvenile, 6-7 yrs.	-	Primary (disturbed)	R	E-W	S	animal (probably cattle) scapula: 1		1

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
73	-	**988**	E271a	6	Middle adult	Female	Primary	R	N-S	W	bone spatula: 1 shell bead: 1 flat stone bead: 1 cylinder clay bead: 1 goat horn: 1	obsidian blade: 1 flint point: 1	1
74	-	**1040**	E251c	4	1. Adult	1. -	Unknown	-	-	-	-		2
					2. Juvenile, 5-6 yrs.	2. -		-	-	-			
75	-	**1044**	E251c	4	Middle adult	Probable male	Priamary	L	E-W	S	bead (imitation of a turquoise): 1		1
76	-	**1045**	E251c	4	Adult	Probable male	Primary (disturbed)	R	NE-SW	-	-		1
77	-	**1047**	E251c	4	Young adult	Male	Primary	R	N-S	W	-		1
78	-	**1048**	E251c	4	Perinatal	-	Primary (disturbed)	-	-	-	-		1
79	-	**1050**	E251c	4	Young adult	Probable male	Primary	L	W-E	NE	-		1
80	-	**1051**	E251c	4	Middle adult	Female	Primary	L	E-W	S	-		1
81	-	**1052**	E251c	4	Subadult, 12-13 yrs.	-	Secondary	-	-	NW	edge handled coarse pottery: 1		1
82	-	**1053**	E251c	4	Adult	Probable male	Primary (disturbed)	R	N-S	NW	stone stamp seal: 1 stone and clay bead: 4 animal (goat) horn: 1		1
83	-	**1056**	E251d	5	Young adult	Probable male	Primary	L	SE-NW	W	stone bead: 2 flint blade: 1		1
84	-	**1057**	E251d	5	Adult	Probable female	Primary	R	E-W	-	-		1
85	-	**1058**	E251c	4	Middle adult	Male	Primary	R	W-E	S	DFBW bowl: 1 clay stamp seal: 1 flint axe: 3 bone awl: 3 animal (deer) horn: 3 Amuq-type flint point: 1 flint blade: 5 pumice stone: 3 whetstone: 1 chipped flint: many		1

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
86	-	**1059**	E251c	4	1. Subadult, possibly in the mid-teenage years.	1. -	Secondary	-	-	-	large animal talus: 1		1
					2. Juvenile	2. -		-	-	-	-		1
87	-	**1062**	E251d	5	-	-	Unknown	-	-	-	-		1
88	-	**1064**	E251d	4	Young adult	Male	Primary	R	NE-SW	NW	shell bead: 3		1
89	-	**1066**	E251c	4	Juvenile, 2-3 yrs.	-	Primary	R	N-S	Downward	bead: 1		1
90	-	**1067**	E251c	5	1. Juvenile	1. -	Unknown	-	-	-	-		2
					2. -	2. -		-	-	-			
91	-	**1070**	E251d	5	-	-	Unknown	-	-	-	-		1
92	-	**1072**	E251c	5	Juvenile 11-12yrs.	-	Primary (disturbed)	S	SW-NE		-		1
93	-	**1073**	E251d	5	Juvenile, 1-2yrs.	-	Urn burial	-	-	-	bead: 1		1
94	-	**1074**	E251c	5	Fetal	-	Primary (disturbed)	-	-		-		1
95	-	**1075**	E271b	5	Young adult	-	Primary	P	W-E	W	-		1
96	-	**1076**	E251c	5	Adult	-	Unknown	-	-	-	-		1
97	-	**1077**	E251c	5	Young adult	Probable female	Primary	S	E-W		stone bead: 1 conch shell bead: 1 tusk shell bead: 1		1
98	-	**1078**	E251c	5	Perinatal	-	Primary	L	W-E	N	-		1
99	-	**1079**	E251d	5	Young adult	Probable male	Primary	L	NW-SE	Downward	conch shell bead: 1		1
100	-	**1080**	E251d	5	Adult	-	Secondary	-	-	S	-		1
101	-	**1081**	E251d	5	Adult	Probable female	Primary	R	NE-SW		cattle metatarsal: 1 bone awl: 7 stone bead: 3		1

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
102	-	**1082**	E251d	5	Middle-old adult	-	Primary (disturbed)	R	NE-SW		Animal bone (metacarpal): 1		1
103	-	**1083**	E251d	5	Adult	-	Unknown	-	-	-	-		1
104	-	**1084**	E251d	5	Adult	Probable female	Secondary	-	-	Upward	-		1
105	-	**1085**	E251d	5	Young adult	Probable female	Primary	R	S-N	E	-		1
106	-	**1086**	E251d	5	Adult	Probable male	Primary	R	S-N	NE	flint blade: 2 stone stamp seal: 1		1
107	-	**1087**	E251d	5	Young adult	Probable female	Primary	L	S-N	SW	stone flat bead: 294 = (1 necklace)		1
108	-	**1088**	E251d	5	1. Adult	1. -	1. Primary (disturbed)	-	-	Upward	-		1
					2. Adult	2. -	2. Primary (disturbed)	R	-	-	stone stamp seal: 1		1
					3. Juvenile	3. -	3. Unknown	-	-	-	-		1
109	-	**1089**	E251c	5	Juvenile, 6-8yrs	-	Primary	R	NW-SE	SW	-		1
110	-	**1090**	E251c	5	Middle adult	Probable male	Primary	L	SE-NW	W	-		1
111	-	**1091**	E271a	5	Subadult, 16-20yrs.	-	Unknown	-	-	-	stone axe: 1 stone bead: 1		1
112	-	**1092**	E251c	5	Juvenile, <12yrs.	-	Primary	L	SE-NW	Downward	-		1
113	-	**1093**	E251c	5	Juvenile, 2-3yrs.	-	Primary	R	W-E	S	stone stamp seal: 1		1
114	-	**1094**	E251c	5	younger than 2 years	-	Primary	R	E-W	-	flint flake: 1		1
115	-	**1095**	E251c	5	Adult	-	Unknown	-	-	-	-		1
116	-	**1096**	E251d	5	Adut	-	Primary (disturbed)	L	-	-	-		1
117	-	**1097**	E251d	5	Adult	Probable female	Primary	L	W-E	N	-		1
118	-	**1098**	E251d	5	Perinatal	-	Primary	L	W-E	-	-		1

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
119	1	718	E271b	4	1. Young adult	1. Probable male	Secondary	-	-	S	-	-	13
					2. Infant	2. -		-	-	-			
		719	E271b		1. Adult	1. -	Secondary	-	-	NE	-		
					2. Juvenile (1-2yrs.)	2. -		-	-	-			
		720	E271b		1. Adult	1. Probable male	Secondary	-	-	-	-		
					2. Possibly middle adult	2. -		-	-	-			
					3. Young adult	3. -		-	-	-			
		721	E271b		Subadult, 12-14yrs.	-	Secondary	-	-	Upward	-		
		722	E271b		Possibly middle adult	Male	Secondary	-	-	Upward	-		
		740	E271b		Juvenile, 10-12yrs.	-	Secondary	-	-		-		
		741	E271b		Juvenile, 5-7yrs.	-	Secondary	-	-	SW	-		
		742	E271b		Juvenile, 6-8yrs.	-	Secondary	-	-	W	-		
		743	E271b		Middle adult	-	Secondary	-	-	NE	-		
120	2	711	E271b	4	Subadult, 15-18 yrs.	-	Primary (disturbed)	R	NE-SW	-	-	bead: 1 stone ball: 1	6
		714	E271b		Adult	Probable male	Primary (disturbed)	L	SW-NE	-	shell bead: 2		
		731	E271b		Middle adult	Probable male	Primary	S	E-W	Downward	stone bead: 1		
		732	E271b		Subadult, 12-15yrs.	-	Primary	P	N-S	Downward	metacarpal (cattle): 1		
		737	E271b		Adult	probable male	Secondary	-	-	W	-		
		751	E271b		Juvenile, 5-6yrs.	-	Primary (disturbed)	-	-		stone stamp seal: 1 stone bead: 2		

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
121	3	**831**	E271b	5	1. Juvenile	1. -	Cremation (secondary)	-	-	-	-	stone bead: 1 disk type clay objects: 1	21
					2. Adult	2. female		-	-	-			
					3. Adult	3. female		-	-	-			
					4. Adult	4. male		-	-	-			
					5. Adult	5. -		-	-	-			
					6. Adult	6. -		-	-	-			
		847	E271b		1. Juvenile, 5-7yrs. 2. Infant 3. Adult, probably older 4. Adult 5. Adult	1. - 2. - 3. male 4. male 5. male	Secondary	-	-	-	-		
		848	E271b										
		850	E271b										
		854	E271b		Juvenile, 5-7yrs.	-	Secondary	-	-	-	stone bead: 1		
		-	E271b		-	-	1. Secondary	-	-	-	-		
							2. Secondary	-	-	-			
							3. Secondary	-	-	-			
							4. Secondary	-	-	-			
							5.Cremation	-	-	-			
							6. Secondary	-	-	-			
							7. Secondary	-	-	-			
							8. Secondary	-	-	-			
							9. Secondary	-	-	-			

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
122	4	**833**	E271b	5	1. Old adult 2. Young adult 3. Middle adult 4. Young adult 5. Adult 6. Adult	1. female 2. female 3. male 4. male 5. female 6. male	Secondary	-	-	-	-	-	6
		839	E271b				Cremation				-		
		845	E271b				Secondary				stone bead: 3 shell bead: 2		
		846	E271b				Secondary				-		
		853	E271b				Secondary				-		
		859	E271b				Secondary				-		
123	5	**842**	E271b	6	Middle adult	Probable male	Cremation pit	-	-	Downward	-	DFBW: 2 stone stamp seal: 1	5
		855	E271b		Young adult	Probable male		-	-	-	-		
		856	E271b		Adult	Probable female		-	-	-	-		
		857	E271b		Young adult	Probable male		-	-	-	-		
		858	E271b		Adult	Probable female		-	-	-	-		
124	6	**865**	E271d	6	1. Juvenile, 4-5yrs. 2. Juvenile 3. Juvenile 4. Juvenile 5. Adult 6. Adult 7. Adult	1. - 2. - 3. - 4. - 5. female 6. female 7. -	Cremation pit	-	-	-	-	DFBW: 1	7
		866	E271d										
		867	E271d										
		868	E271d										

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
125	7	**860**	E271b	6	Adult	-	Primary (disturbed)	-	-	-	stone bead: 7 shell bead: 5 bone bead: 1 stone stamp seal: 1 bone stamp seal: 3 miniature stone vessel: 1	Amuq-type flint point: 1	4
		861	E271b		Young adult	Probable female	Primary (disturbed)	L	-	E	-		
		862	E271b		Adult	Probable female	Primary (disturbed)	R	E-W	N	DFBW jar: 1 animal lower jaw: 1		
		863	E271b		Adult	Probable female	Primary	P	E-W	N	stone bead: 1		
126	8	**869**	E271d	6	1. Infant, b-3mos. 2. Juvenile 3. Juvenile 4. Subadult 5. Old adult 6. Young adult 7. Adult 8. Adult	7. probable male	Cremation (secondary)	-	-	-	-	drill: 1	8
		870	E271d										
		871	E271d										
		872	E271d										
		873	E271d										
		874	E271d										
		875	E271d										
127	9	**919**	E271b	6	1. Adult 2. Subadult 3. Adult 4. Juvenile 5. Adult	-	Cremation pit	-	-	-	-	stone ball: 1	5

	Concentration	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	
128	10 North	943	E271b	6	Adult	Probable male	Primary	L	E-W	N	flint blade: 1	DFBW: 1	22
		947			Middle adult	Probable male	Primary	P	S-N	Downward	disk type clay objects: 2		
		962			Middle adult	Male	Primary	P	W-E	N			
		971			Juvenile, 3-4yrs.	-	Secondary	-	-	-			
		972			Juvenile, 11-12yrs.	-	Secondary	-	-	-	stone bead: 1		
		978			Young adult	Probable female	Secondary	-	-	-			
		979			Subadult, 12-13yrs.	-	Primary	P	S-N	Downward			
		980			-	-	Secondary	-	-	-			
		983			Adult	Probable female	Secondary	-	-	-			
		991			Juvenile, 5-6yrs.	-	Secondary	-	-	E			
		993			Infant, possibly young juvenile	-	Secondary	-	-	-			
		995			Adult	-	Primary (disturbed)	R	E-W	-	stamp seal: 2		
		996			Juvenile, 4-5yrs.	-	Secondary	-	-	-			
		998			Adult	-	Primary (disturbed)	-	S-N	-			
		999			-	-	Primary (disturbed)	-	E-W	-	stone bead: 3		
	10 South	953		6	Adult	-	Primary (disturbed)	-	-	-	-		
		-			At least 6 individuals	-	Cremation (secondary)	-	-	-	-		
Total													**241**

	Concentr ation	Str.No.	Square	Layer	Age	Sex	Burial type	Position	Body axis direction	Face direction	Burial goods		
											Str.No.	Concentration	

The age categories:

fetal (<9mos. in utero)
perinatal (9mos. in utero-1 mos. ex utero)
infant (B-1yr.)
juvenile (1-12yrs.)
subadult (12-20yrs.)
young adult (20-35yrs.)
middle adult (35-50yrs.)
old adult (+50yrs.)

Table 4 Kerkh cemetery cremation pits

		Pit shape	Pit size	No. of indivs.	Age	Sex	Offering and feature
C-5		Circle	Diameter: 1.5m Depth: 0.4m	5	Adult: 5	Probable male: 3 Probable female: 2	Two DFBW above the pit A stamp seal within the DFBW
C-6	Lower level	Circle	Diameter: 0.6m Depth: 0.3m	7	Juvenile: 4 Adult: 3	Female: 2 Unknown: 5	A short stone row and charred wheat above the pit
	Upper level	Oval	Diameter: 1.0 × 0.8m Depth: 0.2m				
C-9		Rectangular	Diameter: 1.0 × 0.9m Depth: 0.15m	5	Adult: 3 Sub-adult: 1 Juvenile: 1	unknown: 3	A stone ball above the pit Thin black organic materials were noticed on the botom of the pit

Table 5 Str. 827, communal kitchen materials

	Mortar	Saddle quern (lower stone)	Saddle quern (upper stone)	Grinding stone	Stone axe	Hammer stone	Stone vessel	Other
Room 1	–	–	–	–	–		–	
Room 2	1	1	1 (f 1)	1	1 (f 1)	–	–	–
Room 3	–	–	1 (f 1)	–	–		–	–
Room 4	–	–	1	–	–	–	–	
Room 5	–	–	–	–	1	–	–	
Room 6	–	–	–	–	1	–	–	
Eastern Part	–	1	1 (f 3)	2		1	1	Pot stand 2 Clay basin 1 Flake scraner
Western Part	–	–	–	(f 1)	–	1	–	pumice (f 2)
Total	1	2	4 (f 5)	3 (f 1)	3 (f 1)	2		

f = fragment

Table 6 Grave goods burials list

Concentration	Str.No.	Layer	Age	Sex	Burial goods dedicated to	
					Deceased	Concentration
-	**507**	4	Juvenile, 8-10yrs.	-	DFBW bowl: 1	-
-	**513**	4	Perinatal	-	Stone animal figurine: 1	-
-	**712**	4	Middle adult	Probable female	flint balde: 2	-
-	**715**	4	Adult	Probable male	stone vessel: 1 shell bead: 1 flint blade: 1	-
-	**729**	4	Young adult	Probable female	stone stamp seal: 1	-
-	**739**	4	Middle adult	Probable male	clay beads: 3 stone beads: 2 shell beads: 2	-
-	**748**	5	Infant	-	stone bead: 1	-
			Juvenile, 1-2yrs.	-	flint borer: 1	
-	**757**	4	Juvenile, 7-8yrs.	-	bone awl: 1	-
-	**803**	5	Adult	Probable female	bone bead: 1 conch shell: 1	-
-	**807**	5	Middle adult, 35-40yrs.	Male	stone bead: 1 flint drill: 1	-
-	**822**	5	Juvenile, 8-10yrs.	-	stone beads: 19 shell bead: 1	-
-	**823**	5	Subadult, 14-16yrs.	-	shell bead: 1 bone needle: 1	-
-	**830**	5	Adult	Probable male	stone bead: 1	-
-	**832**	5	Adult	-	Stone beads: 6 Shell bead: 1	DFBW: 1
-	**836**	5	Middle adult	Male	conch shell: 1	-
-	**851**	5	Infant, 10-12mos.	-	cowrie shell bead: 1	-
			Adult	-		
-	**909**	5	Young adult	Probable female	stone stamp seal: 1	-
-	**913**	6	Juvenile, 1-2yrs.	-	stone bead: 20	-
-	**914**	6	Juvenile, 3-4yrs.	-	stone beads: 8	-
-	**922**	6	Adult	-	stone bead: 2 shell bead: 1	-
-	**924**	6	Young adult	Female	tusk shell bead: 1	-
-	**926**	6	Adult	Probable female	shell bead: 4 bone bead: 2 stone bead: 1	-
-	**927**	6	Young adult	Female	pottery sherd: 1 shell: 1 DFBW bowl: 1 stone bead: 3	-
			Fetal	-	shell bead: 2	
			Juvenile, 4-5yrs.	-	bone bead: 1	
-	**941**	6	Middle adult	Probable female	bone spatula: 1 flint point: 1 hammer stone: 1	-

-	**946**	6	Perinatal (possible late-term fetal)	-	stone bead: 1	-
-	**984**	6	Young adult	Probable male	stone bead: 1 flint blade: 2	-
-	**985**	6	Juvenile, 6-7 yrs.	-	animal (probably cattle) scapula: 1	-
-	**988**	6	Middle adult	Female	bone spatula: 1 Shell bead: 1 flat stone bead: 1 cylinder stone bead: 1 goat horn: 1	obsidian blade: 1 flint point: 1
-	**1044**	4	Middle adult	Probable male	bead (imitation of a turquoise?): 1	-
-	**1052**	4	Subadult, 12-13 yrs.	-	edge handled coarse pottery: 1	-
-	**1053**	4	Adult	Probable male	stone stamp seal: 1 stone and clay bead: 4 animal (goat) horn: 1	-
-	**1056**	5	Young adult	Probable male	stone bead: 2 flint blade: 1	-
-	**1058**	4	Middle adult	Male	DFBW bowl: 1 clay stamp seal: 1 flint axe: 3 bone awl: 3 animal (deer) horn: 5 Amuq-type flint point: 1 flint blade: 5 pumice stone: 4 whetstone: 1 chipped flint: 20	-
-	**1059**	4	Subadult, possibly in the mid-teenage years.	-	large animal talus: 1	-
-	**1064**	4	Young adult	Male	shell bead: 3	-
-	**1066**	4	Juvenile, 2-3 yrs.	-	bead: 1	-
-	**1073**	5	Juvenile, 1-2yrs.	-	bead: 1	-
-	**1077**	5	Young adult	Probable female	stone bead: 1 conch shell bead: 1 tusk shell bead: 1	-
-	**1079**	5	Young adult	Probable male	conch shell bead: 1	-
-	**1081**	5	Adult	Probable female	cattle metatarsal: 1 bone awl: 7 stone bead: 3	-

-	**1086**	5	Adult	Probable male	flint blade: 2 stone stamp seal: 1	-
-	**1087**	5	Young adult	Probable female	stone flat bead: 294 (=1 necklace)	-
-	**1088**		Adult	-	stone stamp seal: 1	
-	**1091**	5	Subadult, 16-20yrs.	-	stone axe: 1 stone bead: 1	-
-	**1093**	5	Juvenile, 2-3yrs.	-	stone stamp seal: 1	-
C-2	**714**	4	Adult	Probable male	shell bead: 2	bead: 1 stone ball: 1
	731		Middle adult	Probable male	stone bead: 1	
	732		Subadult, 12-15yrs.	-	metacarpal (cattle): 1	
	751		Juvenile, 5-6yrs.	-	stone stamp seal: 1 stone bead: 2	-
C-3	**854**	5	Juvenile, 5-7yrs.	-	stone bead: 1	stone bead: 1 disk type clay objects: 1
C-4	**845**	5	Middle adult	male	stone bead: 3 shell bead: 2	-
C-5		6	Cremation pit			DFBW: 2 stone stamp seal: 1
C-6		6	Cremation pit			DFBW: 1
C-7	**860**	6	Adult	-	stone bead: 7 shell bead: 5 bone bead: 1 stone stamp seal: 1 bone stamp seal: 3 miniature stone vessel: 1	Amuq-type flint point: 1
	862		Adult	Probable female	DFBW jar: 1 animal lower jaw: 1	
	863		Adult	Probable female	stone bead: 1	
C-8		6	Cremation (secondary)		-	drill: 1
C-9		6	Cremation pit		-	stone ball: 1
C-10 North	**943**	6	Adult	Probable male	flint blade: 1	
	947		Middle adult	Probable male	disk type clay objects: 2	
	972		Juvenile, 11-12yrs.	-	stone bead: 1	
	995		Adult	-	stamp seal: 2	
	999		-	-	stone bead: 3	
C-10 South						DFBW: 1

Table 7 Tell Sabi Abyad, Operation III cemeteries (Plug and Nieuwenhuyse2018, p. 336)

Cemetery	Date cal BC	Period	No. burials
No dated			43
End of burials	5865 - 5790	Early Halaf (C-Seq.)	–
Cemetery 1	5895 - 5805	Early Halaf (C-Seq.)	20
Cemetery 2	No dates	Early Halaf (C-Seq.)	5
Cemetery 3	6000 - 5900	B-C Seq. transition	39
Cemetery 4	6090 - 5985	Transitional (B-Seq.)	25
Cemetery 5	6145 - 6070	Transitional (B-Seq.)	12
Cemetery 6	6235 - 6145	Pre-Halaf (B-Seq.)	11
Cemetery 7	6380 - 6225	Early Pottery Neolithic to Pre-Halaf (A-Seq.)	37

Table 8 Tell Sabi Abyad, Oberation I burial list (based on, Otte, Smits and Akkermans 2014)

Burial no.	Location		Age	Body direction	Body Position	Face direction	Grave goods	Grave description
	Square	Locus						
BN 96-11	R13	214	infant	east-west	right side	south	2 vessels, disc-shaped bead, snail shell	The grave was shallow pit sunk into the floor of circular building next to the wall
BN 96-12	–	–	infant	northeast-southwest	on back	–	–	The grave was shallow pit located in the fill of an abandoned open area
BN 97-5	T12	45	infant	northeast-southwest	on back	south	small standard ware	The grave is oval located in the outdoor midden
BN 99-1	S14	135	young child 7-14 yrs.	northeast-southwest	–	–	–	The grave has oval pit sunk into the floor of circular building next to the wall
BN 99-2	S14	136	infant	northwest-southeast	right side	west	–	The grave has oval pit sunk into the fill of abandoned open area
BN 99-4	S14	143	infant	east-west	left side	south	Standard ware vessel	The grave has shallow pit sunk into the ashy fill of abandoned open area
BN 99-5	S14	140	infant	–	–	–	–	No burial pit was identified. The grave was sunk into the ashy fill of abandoned open area
BN 99-6	S14	156	small child 2-3 yrs.	southeast-northwest	right side	east	–	It has oval burial pit sunk into the ashy fill of abandoned open area
BN 99-7	P13	166	young child 6-7 yrs.	northwest-southeast	right side	southeast	–	The grave has oval pit sunk into the fill of the level 7A settlement
BN 99-8	Q12	91	infant	southwest-northeast	left side	south	–	The grave has round pit sunk into the fill of the level 7A settlement
BN 99-9	P13	179	child 1 yrs.+/_ 4mos.	northwest-southeast	on back	–	–	The grave has oval pit sunk into the fill of the level 7A settlement
BN 99-10	Q13	178	infant	–	–	–	–	The grave was sunk into the fill of the level 7A settlement
BN 99-11	P13	182	adult	southeast-northwest	right side	downwards	–	The grave has oval pit sunk into the fill of the level 7A settlement
BN 99-13	P13	187	small child 2-3 yrs.	north-south	left side	west	nicklace	The grave has oval pit sunk into the fill of the level 7A settlement
BN 99-26	Q12	112	infant	east-west	left side	south	Small Standard Ware jar	The grave was sunk into the fill of the abandoned open area of level 7A settlement
BN 99-27	Q12	113	infant	east-west	–	–	–	The grave was sunk into the floor of the level 6 circular building

Table 9 Hakemi Use burials (Erdal 2013, Table 18.1, p. 213)

Level	1	2	3	4-5	Total
Fetus	2	1	0	2	5
Infant (0-2.4)	5	6	9	13	33
Child (2.5-14.9)	9	3	3	2	17
Young adult (15-30)	6	2	2	0	10
Middle adult (30-45	10	5	3	1	19
Old adult (45+)	2	0	1	2	5
Unknown adult	5	1	0	0	6
Total	39	18	18	20	95