

ARCHAEOLOGICAL SURVEY OF GREATER AMMAN, PHASE 1: FINAL REPORT

by

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Introduction

The Archaeological Survey of Greater Amman (ASGA) was a surface survey project begun in 1988 as part of the Cultural Resource Management (CRM) Project and was sponsored jointly by the Department of Antiquities of Jordan, the American Center of Oriental Research (ACOR), and the United States Agency for International Development (USAID)¹. In keeping with the broader aims of the CRM Project, ASGA had a two-fold purpose: 1) to collect archaeological data on successive hinterland settlement systems in the region of *Rabboth-Ammon/Philadelphia*, the principal ancient urban centre of central Transjordan (a research-oriented purpose) and; 2) to compile a comprehensive inventory of antiquities sites of all periods within the boundaries of Greater Amman in order to promote the preservation of cultural property in the context of the planned economic development of the modern Jordanian capital (a CRM-oriented purpose).

ASGA, Phase One, covered approximately five percent of the Greater Amman municipality, a total area of more than 570 km² stretching from Shafa Badran on the north to Yadudah on the south and from

Wadi es-Sir on the west to beyond Marka on the east (Fig. 1). This initial phase focused on hitherto incomplete investigated portions of the northeastern and northwestern sections of the metropolitan area. The field work was carried out by the authors from late August to late October, 1988. In seven weeks, the Survey recorded 222 sites of all sizes and dates, and of all types, from monumental stone towers to isolated rural cisterns (Table 2). Some of these sites were previously known, others were not. New discoveries included some late ancient and mediaeval settlements of considerable size and significance, as well as a handful of rare Early, Middle, and Late Bronze Age sites.

Previous Research

ASGA was by no means the first archaeological survey of the Amman region. More than a century before, in 1881-82, C. R. Conder began, though owing to interference from local authorities was unable to complete, a "Survey of Eastern Palestine" on behalf of the Palestine Exploration Fund (Conder 1889). At the turn of the last century, H. C. Butler of Princeton University conducted a "Survey of the Ancient Monuments of Syria," a portion of which included

1. The Cultural Resource Management Project was begun in 1987 through the joint efforts of Dr. David McCreery, then director of ACOR, and Dr. Stephen Linter, then of the Environmental Office, Asia-Near East Bureau, USAID Washington, DC. In Jordan the CRM Project had invaluable support from Mr. Lou Reed, then director of the AID Mission-Jordan and from the Mission Environmental Officer, Eng. Abdullah Ahmed. The Archaeological Survey of Greater Amman could not have proceeded in 1988 without the efforts of Dr. Bert De Vries, the then director of ACOR. The Department of Antiquities, under the past director Dr. Adnan Hadidi and the then director Dr. Ghazi Bisheh, supported ASGA and provided the professional personnel who

formed the survey team. These were: Mr. Abdul Sami' Abu Dayyah (then head of the Excavation Section, now Chief Inspector of Antiquities of Amman) who served as the project director, and Messrs Ibrahim Haj Hassan and Emsaytif Suleiman, then both of the Conservation Section, who worked as crew members. Together with USAID CRM consultant Dr. Joseph A. Greene, who served as archaeological advisor for ASGA, they conducted the field work and in addition performed the onerous tasks of processing, registering, analyzing, and drawing all of the Survey pottery and finds. Ceramic identifications and datings are by Mr. Abu Dayyah with advice from Dr. James Sauer.

Amman and its region (Butler 1907). In both cases the extant remains of Roman/Byzantine *Philadelphia* attracted much of the attention of these early explorers, to the exclusion of smaller, less obtrusive sites (see however, Ibach 1987: 203-232).

Archaeological surface survey in the Amman region ("archaeological survey" in a modern sense) was pioneered in the 1930's by Nelson Glueck. The results of Glueck's surveys, published as the multi-volume *Explorations in Eastern Palestine* (Glueck 1934; 1935; 1939 and 1951), included many (but not most and by no means all) of the ancient sites on the East Bank of Jordan from the north 'Arabah to the Yarmuk gorge. He surveyed the Amman area in 1938, when the capital was still confined to the vicinity of the current city centre (Table 1, Glueck 1939: 151-190). The hills and fields of Shmesani, Khilda, Jubeiha, and Abu 'Alanda were bare of structures, as Glueck's contemporary photographs attest. Glueck recorded primarily large settlements of the Bronze and Iron Ages and of the classical and mediaeval periods. For the most part, he omitted smaller sites of the historical periods and prehistoric lithic sites. His chronological and historical interpretations were also handicapped by the then limited knowledge of the ceramic chronology of the East Bank. He was forced to rely on the stratified sequences, such as they were, from pre-war excavations in western Palestine. As a consequence, Glueck's conclusions, especially about the abandonment of Transjordan in the Middle and Late Bronze Ages, have been subject to extensive reinterpretations (e.g., Franken and Power 1971; Dornemann 1983: 2-5, 9-19, 165-166; see now Boling 1988).

In 1976, the Department of Antiquities conducted a survey in the rapidly expanding but still relatively empty area from the Sports City to the University of Jordan campus, between Jubeiha on the northeast and Tla' el-'Ali on the southwest (Muheisen 1976b). This survey recorded sites that had eluded Glueck entirely: e.g., the Sports City Site (1976b: No. 2, ASGA 55-35.1) covering almost ten dunums just ten metres north of the existing Amman-Zarqa motorway and Khirbet Salameh (1976b: No. 11, ASGA

57-32.1) a substantial stone tower of late Iron Age II and Roman date (Lenzen and McQuitty 1984; 1987).

More recently research surveys carried out in conjunction with excavation projects in the Amman area have also contributed data. The Madaba Plains Regional Project surveyed within a five-kilometer radius of Tell el-'Umeri south of Amman in 1984, 1987 and 1989 (Geraty *et al.* 1986; 1989). In 1987, a survey of 8.5 km² in the Wadi Zarqa basin north and east of 'Ain Ghazal mapped 81 sites of all periods (Simmons and Kafafi 1988).

In addition to this systematically collected data, there is a quantity of information on antiquities sites in the Greater Amman area gathered by chance. Much of this comes from accidental discoveries reported to the Department of Antiquities and subsequently salvaged by rescue excavations. These finds range from artifact scatters and isolated tombs to entire cemeteries and major settlements (e.g., in part, Dana 1970; Van Elderen 1970; Bisheh 1972; 1973; Muheisen 1976a; Zayadine 1978; 1981; Rollefson *et al.* 1982; Haddad 1984; Suleiman 1984; 1985a, b; 1987; Hadidi 1982a, b; 1987; and Helms and McCreery 1988). These accidental discoveries along with results of previous investigations provided a starting point for the Archaeological Survey of Greater Amman.

Study Areas and Methodologies

Phase One of ASGA focused on two separate geographic areas of Greater Amman. These separate areas posed differing research problems which were addressed with differing research methodologies.

1. Northern and Western Greater Amman

In the northern and western quadrants of the modern metropolitan area, the Survey revisited and rerecorded key known sites (Fig. 1). This was done in order to confirm the location and assess the present condition of sites previously reported by Glueck and other researchers or to verify and record more fully recent accidental discoveries.

Here, an extensive, purposive survey strategy was employed. The search for sites relied mainly on previously reported site locations. In the course of searching for these

sites, numerous smaller, unknown sites adjacent to the larger known ones were also identified. Some of the "known" sites could not be relocated. They had been destroyed, swept away by the tide of modern development. Other sites, though relocated, could not be confirmed as being identical with sites previously recorded. Certain sites published by Glueck present such difficulties. Although his written descriptions of sites are meticulous, in many instances the surrounding landscape has changed so drastically in the intervening decades as to render it unrecognizable to modern observers. Moreover, Glueck differentiated neighbouring sites mainly by locally given names. Though he diligently recorded these names in the 1930's, the subsequent variation and inconsistency of many site names through time have resulted in confusion in the 1980's (e.g., on the several ancient sites to which the name "Umeri" is attached, see Geraty *et al.* 1987:188). This confusion cannot be resolved from the published data, since Glueck included no site grid references or detailed topographic maps of site locations in his volumes.²

2. North Amman Reparcelsation Area

The other study zone was the North Amman Reparcelsation Area, stretching from 'Ain Ghazal westward as far as the village of 'Arajan (Fig.2). Here in 1988 the Greater Amman Municipality was in the process of implementing a land redistribution program, or "reparcelsation." This was intended to create uniform plots of land for various planned uses: private housing, commercial centres and public open space, along with rights-of-way for an elaborate infrastructure of roads and utilities designed to support this development. This area contained two already well known sites, the reconstructed Roman period mausoleum at Nuwayjis (Conder 1889: 172-174; Glueck 1939: 175-178) and the large Neolithic settlement of 'Ain Ghazal

(Rollefson *et al.* 1989).

In the reparcelsation area, the Survey conducted an intensive search for sites aimed at compiling an exhaustive inventory of antiquities of all types and dates. Such an inventory was intended to form the basis for recommendations to municipal planners concerning sites to be protected from damage or to be "mitigated", i.e., investigated in advance of probable destruction. The search for sites therefore followed a regular pattern of the intensive surface reconnaissance in kilometer-square units based on the Palestine grid. The survey units were subdivided into ten *transects*, each measuring 100 metres wide (E-W) by 1000 metres long (N-S). Units and transects were located on the ground by means of compass bearings taken in reference to features shown on recent 1:10,000 scale topographic maps of Amman provided by the Jordanian Royal Geographic Centre. In each unit, team members were assigned two adjacent transects for site search and recording. Normally, this meant that the surveyor, starting from an established E-W base line, walked the first transect in one direction (either N or S) and the adjacent transect in the opposite direction on the return leg, bringing him back to the base line. Thus, it was possible to cover regular search units while keeping track of areas which had been searched and which had not.

Within the transects, crew members recorded all archaeologically significant features visible at the surface: artifact scatters, architectural remains and elements, cisterns, caves, tombs, quarry cuttings and rock shelters (see introduction to Table 2). A field form completed for such features recorded the particulars of each *findspot*. Later, all findspots were evaluated to determine which qualified to be designated as *sites*. Not every findspot was so designated, especially diffuse scatters of sherds or lithics that did not also exhibit the kinds of surface traces associated

2. There may, however, be recourse to unpublished data. The printed topographic maps Glueck used for his explorations in Eastern Palestine (some marked in his own hand), along with some of his field notes, have recently come to light in an archive at the

Harvard Semitic Museum. One of the authors (Greene) is presently examining this material to determine how it can best be used to supplement both Glueck's published results and the data gathered in Phase One of ASGA.

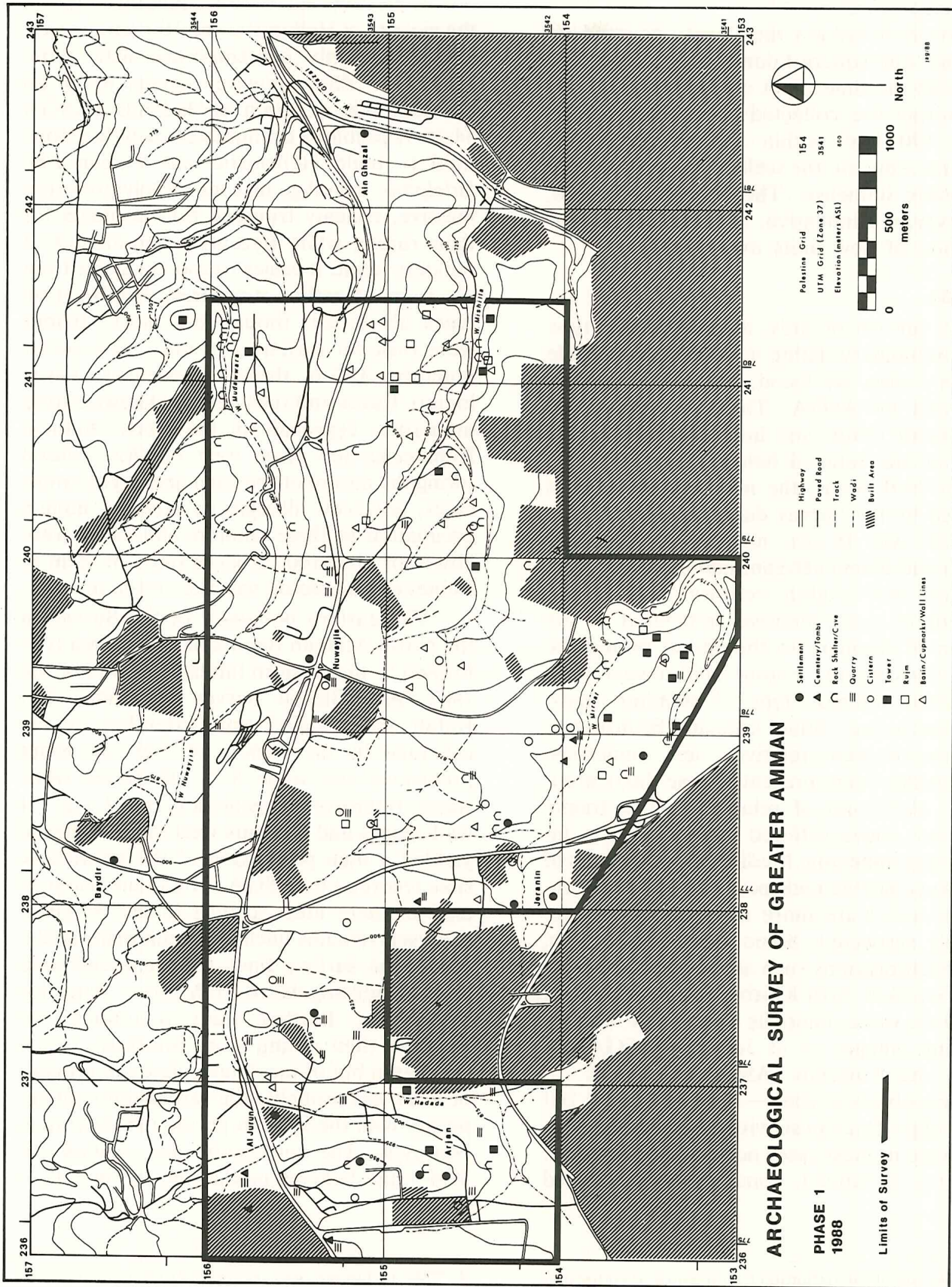


Fig. 2. The North Amman Reparcelization area.

with what is conventionally termed an 'archaeological site.'³

In such fashion the Survey covered on average one square kilometre per day. This included the time spent on field reading and registering the collected sherds and lithics. With 570 km² within the boundaries of Greater Amman, the scale of the undertaking is clearly immense. The survey technique, however, is cumulative, allowing the regular addition of new units over time.⁴

Results

A full list of sites, their locations, type and preliminary dating is presented in Table 2. Only sites are listed, not every findspot recorded by ASGA. The more significant settlement trends and individual discoveries of note are detailed below.

In both areas, the majority of the sites located by the Survey dated, unsurprisingly, in Iron Age II (ca. ninth-sixth centuries B.C.) and Roman/Byzantine/Ummayyad (first century B.C.-eighth century A.D.), two periods of very intensive settlement in the region of Amman. In the earlier period the ubiquitous *rujum*, or stone-built towers, were the most common type of standing ruins. Prehistoric (i.e., lithic) sites and Bronze Age settlements were relatively less numerous, though they were present. Those discovered, being older and of relatively more fragile materials, have suffered considerably in intervening millennia. Mediaeval settlements of the Ayyubid-Mamluk period (12th-16th centuries A.D.) are more numerous than previously suspected. Some survive as *khirab*, architectural ruins such as Khirbet es-Sumaq (ASGA 54-30.1) or Khirbet 'Othman (ASGA 56-29.4), while others lie buried just beneath existing villages as at Jubeiha (ASGA 59-31.2) and Nuwayjis (ASGA 55-39.4-5).

Less obtrusive sites — not settlements, but areas of past human activity — were numerous, but were in most cases not precisely datable. Cisterns abounded, some of them refitted

with cement covers and iron lids and still in use. Limestone quarries frequently found in the vicinity of Hellenistic and Roman sites are almost certainly contemporary with those settlement. The extensive quarries found on the east side of Wadi el-Haddada (ASGA 54-36.9) probably produced some of the stone used to build Hellenistic and Roman *Philadelphia*. Iron Age masons usually preferred massive, roughly trimmed flint boulders for their *rujum*, while Byzantine and mediaeval builders found it easier to rob cut stone from the ruins of earlier structures. Tombs of all types abounded, though the most obvious were rock-cut varieties. In every case so far noted by ASGA, these had been previously looted. Caves and rock shelters likewise were numerous, especially in the North Amman Reparcelization Area west of 'Ain Ghazal owing the nature of the local geology. In most cases, however, all signs of previous human occupation in these shelters and caves were absent or obscured. Modern reuse of them as stables or sheepfolds was more often the rule.

The eastern boundary of the Survey in the North Amman Reparcelization Area conformed to the western limits of Zone I of the 1987 'Ain Ghazal Survey (Simmons and Kafafi 1989: Fig.1) thus extending survey coverage in the region of that important prehistoric site some 5.50 kilometres westward. Intensive investigation of 12 km² of wadi slopes and plateaux west of 'Ain Ghazal yielded a high proportion of the prehistoric sites recorded by ASGA. The relationship (if any) of these lithic scatters to the Neolithic site itself remains unclear. Preliminary analyses of the surface finds have demonstrated only "Undistinguished Prehistoric" dates for these sites. Further study is required to establish their dating more precisely. In the same area but of much later date are remains of what was probably the settlement contemporary with the Roman period mausoleum at Nuwayjis. The settlement site, ASGA 55-39.4-5, lies beneath modern houses northeast

3. The issue of site definition for purposes of archaeological survey is a thorny one and too complex to address here. ASGA recognized some differentiation in typology (see the introduction to Table 2).

4. This technique was adapted from a similar one developed by the Canadian Paliapaphos Survey Project in western Cyprus (Rupp 1987).

of the funerary monument, across a major intersection in the Amman-Zarqa motorway.

In the western quadrant of Greater Amman investigation of *rujm* Qaşr Khilda lead to discovery of an extensive network of settlements, smaller towers and activity areas scattered throughout the Khilda region. North of Khilda lies Umm en-Nafat (ASGA 58-31.2 & 3) a Late Chalcolithic, EBI-IV and MB site complex reported first by Muheisen (1976b: No. 10). There the Survey also found what may be fragmentary remains of a dolmen field (ASGA 58-31.1). Irregular limestone boulders and a single notched slab lay displaced on the wadi slope opposite the settlement site; but the megaliths, if indeed it once existed there, were much disturbed.

THE ARCHAEOLOGICAL SURVEY OF GREATER AMMAN AND THE CRM PROJECT

This sums up, in a brief and very preliminary way, the results of Phase One of the Archaeological Survey of Greater Amman. At present these results are too limited to address substantive questions of settlement history and land use in the hinterland of ancient *Rabboth-Ammon/Philadelphia*. Moreover, the survey limits do not define a geographic or socio-political hinterland of ancient Amman in a given period, since its limits were determined by the modern political boundaries of Greater Amman. This reflects the Survey's linkage to contemporary urban planning carried out at the municipal level. However, the several hundreds of sites recorded have contributed to an up-to-date inventory of the antiquities in certain sectors of Greater Amman. This will enable the Department of Antiquities and all parties interested in cultural preservation in Jordan to make informed choices about what sites *must* be preserved, and, sufficient resources permitting, what sites *can* be preserved. This is one of the principal objectives of the Cultural Resource Management Project.

As stated at the outset, the Archaeological Survey of Greater Amman was part of the more comprehensive Cultural Resource Management (CRM) Project. The CRM Project was a cooperative undertaking of the Department of Antiquities, ACOR and

USAID, designed to promote coordinated forward planning between government ministries and international agencies responsible for economic development in Jordan and those charged with the preservation of Jordanian cultural property. The Project also sought to improve local technical expertise in cultural resource management by providing field experience and specialized training in CRM concepts and methodologies for members of the Department of Antiquities (a full account will appear in 'Amr, Greene and Kraczkiewicz, in preparation).

"Cultural resource management", to use terminology borrowed from New World anthropological archaeology, is a new name for an old problem: the on-going tension between the insistent drive to develop for the future and the presumptive need to preserve the past. The techniques of cultural resource management offer means of coping with that tension. The CRM Project developed specific applications of those techniques in a Jordanian setting.

A tradition of such archaeological work has in fact long existed in Jordan, under various rubrics: salvage archaeology, rescue archaeology, emergency archaeology. Construction in the late 1940's construction of the current National Archaeological Museum on the Amman Citadel Museum, was preceded by excavations conducted by the then Director of Antiquities, G. L. Harding (Harding 1951). In the 1950's, Mellaart and de Contenson conducted archaeological survey in conjunction with USAID-funded Point Four Jordan Valley Irrigation Project (Mellaart 1962, de Contenson 1964). In the 1960's, excavations in the Roman forum of Amman were begun as part of an urban redevelopment plan for downtown Amman (Hadidi 1974). In the 1970's, a proposal to build a new national museum on the Amman Citadel was preceded by excavations conducted jointly by the Department of Antiquities, the British Institute at Amman and the Spanish Archaeological Mission in Jordan (see Bennett 1975). The economic boom of the early 1980's in Jordan and the ensuing rush of public and private construction engendered need for scores of similar rescue excavations

and salvage surveys, too numerous to list here. The CRM Project and the Archaeological Survey of Greater Amman stand in that long tradition.

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Appendix: ASGA Ceramics Descriptions and Lists of Sites.

In the ceramics descriptions (Figs. 3-9), the following criteria and abbreviations are used: *Core dimensions*: very thin (less than 15% of sherd thickness), thin (15%), medium (30%), thick (60%), very thick (90%).

Inclusions (incls). *Frequency*: rare (less than 5% of section surface area), few (5-10%), some (10-50%), many (over 50%). *Size*: very small (invisible to the naked eye), small (sm: less than 0.2 mm dia), medium (md: 0.2-0.5 mm dia), large (lg: 0.5-1.0 mm dia), very large (v. lg: greater than 1.0 mm dia). *Color*: light (lt) or dark (dk).

Firing/Hardness: quality of firing: poor (pr), good (gd)/hardness of fabric: soft (sf), medium (md), hard (hd:), very hard (v. hd: metallic).

Fig. 3. Late Chalcolithic-Middle Bronze Age pottery.

No.	Site	Reg#	Form	Dia (cms)	Description	Dating
1	58-31.2	2106	bowl rim	30	handmade	Late Chalcolithic/EB I
					int slip: 7.5YR 7/4 pink, ext slip: 5YR 6/1 gray, thick core: 5YR 6/1 gray, md lt mineral incls, pr firing, hard ware, traces of ext burning	
2	58-31.2	2100	jar rim	18	handmade	Late Chalcolithic/EB I
					int slip: 5YR 6/6 reddish yellow, ext slip: 7.5YR 6/4 lt reddish brown ware: 7.5YR 7/4 pink, md lt mineral incls, gd firing, hard ware	
3	58-31.2	2105	jar rim	29	slow wheel made	MB
					int/ext slip : 2.5YR 6/4 lt reddish brown, ware: 10YR 6/6 red, md-large lt mineral incls, gd firing, md hardness, hand burnished int/ext	
4	58-31.2	2107	bowl rim	6	handmade	Late Chalcolithic/EB I
					int slip: 2.5YR 6/6 lt red, ext slip: 5YR 7/4 pink, ware: 5YR 8/3 pink, sm-md lt mineral incls, gd firing, md hardness	
5	58-31.2	2103	bowl rim	22	slow wheel made	MB
					int: 5YR 7/6 reddish yellow, ext slip: 5YR 7/4 pink, ware: 5YR 7/4 pink, lt mineral incls, gd firing	
6	55-39.8/2	809	jar rim	26	handmade	EB I-III
					int/ext: 5Y 7/6 reddish yellow, thick core: 10YR 6/1 gray, sm lt mineral incls, md firing, hard ware	
7	58-31.2	1672	bowl rim	24	wheelmade	MB II-III
					int/ext slip: 5YR 7/6 reddish yellow, ext slip: 5YR 7/6 reddish yellow, thick core: 10YR 7/1 lt gray, v. sm dk mineral incls, md firing, soft ware	
8	54-38.3	18	bowl rim	18	wheelmade	MB II-III
					int/ext slip: 5YR 8/2 pinkish white, ware: 5YR 7/8 reddish yellow, md core: 5YR 8/4 pink, md lt mineral incls, gd firing	
9	58-31.2	2109	jar rim	16	handmade	MB I
					int: 7.5YR 8/2 pinkish white, ext: encrusted, thick core: N 7/0 gray, md lt mineral incls, md firing, md hardness	
10	58-31.3	1676	ring base	5	wheelmade	MB II
					int/ext slip: 10YR 8/2 white, thick core: 10YR 7/1 lt gray, sm-md lt mineral incls, md firing, soft ware, lime spalling at surface	

- 11 58-31.3 1674 jar handle - handmade MB II?
int: N7/0 lt gray, ext: 5YR 7/6 reddish yellow, thick core: N 6/0 gray, sm-md lt mineral incls, pr firing, hard ware, lime spalling at ext surface
- 12 58-31.2 2111 jar handle - handmade MB II-III
int/ext: 10YR 8/4 v. pale brown, thick core: 10YR 7/1 lt gray, md lt mineral incls, md firing, md hardness

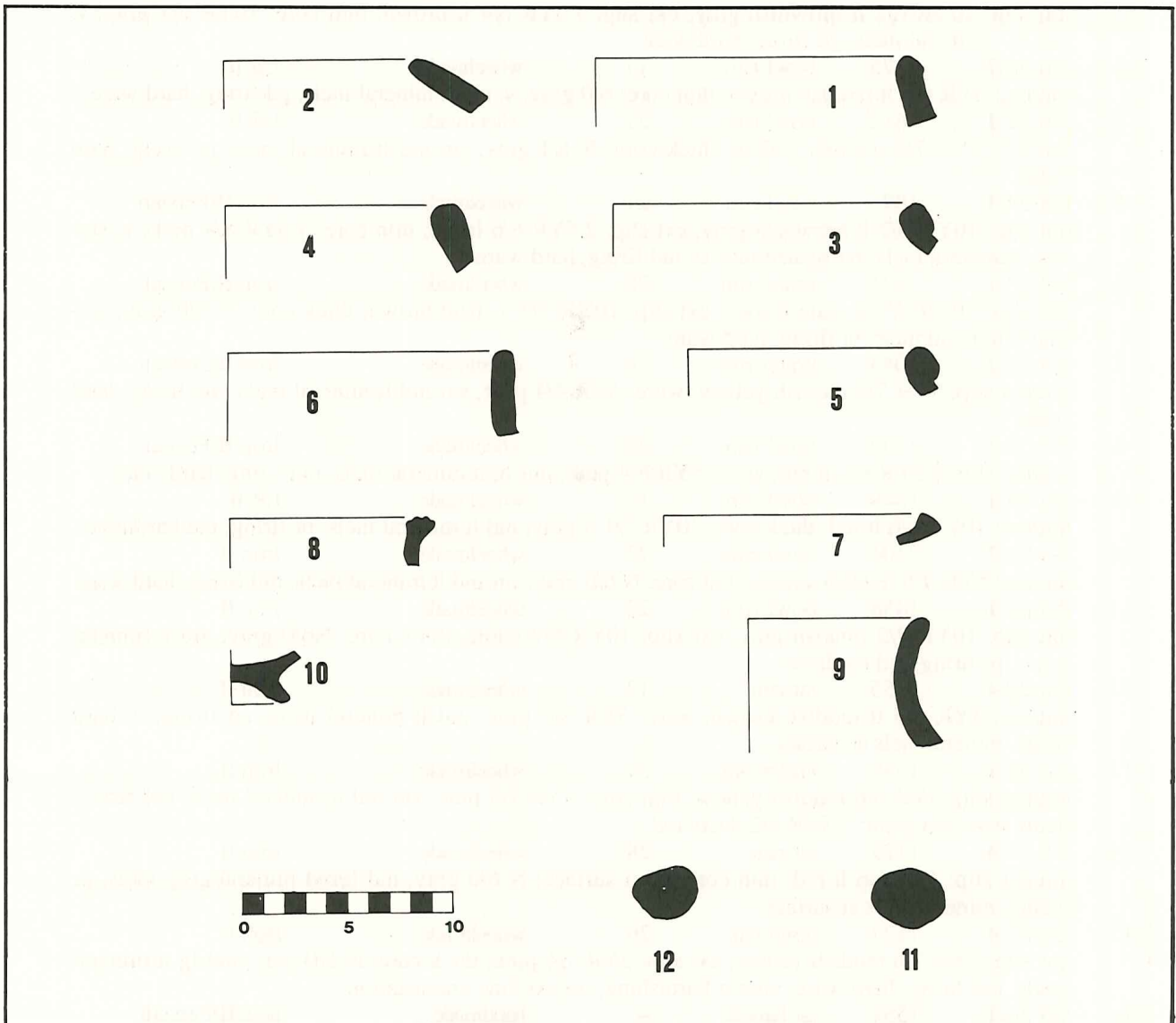


Fig. 3.

Fig. 4. Late Bronze-Iron Age II/Persian pottery.

No.	Site	Reg#	Form	Dia (cms)	Description	Dating
1	59-33.1	1937	bowl rim	22	wheelmade int/ext: 5YR 7/6 reddish yellow, md core: N 6/0 lt gray, sm-md lt/red mineral/grog incls, pr firing, md hardness	Iron II/Persian
2	56-38.1	1614	bowl rim	25	wheelmade int slip: 10YR 6/2 lt brownish gray, ext slip: 7.5YR 6/4 lt brown, thin core: 10YR 6/1 gray, v. sm lt mineral incls, gd firing, hard ware	Iron II/Persian
3	56-29.7	1275	bowl rim	17	wheelmade int/ext: 5YR 6/4 lt reddish brown, thin core: 6/0 gray, v. sm lt mineral incls, gd firing, hard ware	LB II
4	56-38.1	1612	bowl rim	21	wheelmade int/ext: 5YR 7/6 reddish yellow, thick core: N 6/1 gray, sm-md lt mineral incls, pr firing, hard ware	LB II
5	58-34.1	1893	bowl rim	21	wheelmade int slip: 10YR 6/2 lt brownish gray, ext slip: 2.5YR 6/6 lt red, thin core: 7.5YR 8/4 pink, v. sm-sm lt mineral incls, burnished int/ext, md firing, hard ware	Iron II/Persian
6	59-33.1	1921	krater rim	28	wheelmade int slip: 10YR 7/7 v. pale brown, ext slip: 10YR 7/3 v. pale brown, thick core: N 5/0 gray, sm-md lt mineral incls, pr firing, hard ware	Iron II/Persian
7	54-33.2	1043	krater rim	24	wheelmade int/ext slip: 5YR 7/6 reddish yellow, ware: 5YR 4/4 pink, sm-md lt mineral incls, md firing, hard ware	Iron II/Persian
8	55-33.2	1129	bowl rim	22	wheelmade int/ext slip: 2.5YR 6/6 lt red, ware: 5YR 8/4 pink, md-lg lt mineral incls, md firing, hard ware	Iron II/Persian
9	56-38.1	1548	bowl rim	10	wheelmade int/ext: 10YR 6/6 lt red, thick core: 10YR 7/1 lt gray, md lt mineral incls, pr firing, md hardness	LB II
10	58-31.2	2104	bowl rim	22	wheelmade int/ext: 5YR 7/6 reddish yellow, md core: N 6/0 gray, sm-md lt mineral incls, md firing, hard ware	Iron II
11	56.32.1	1458	bowl rim	22	wheelmade int slip: 10YR 7/2 pinkish gray, ext slip: 10YR 8/2 white, thick core: N6/0 gray, md lt mineral incls, pr firing, md hardness	Iron II
12	56-29.4	1255	jar rim	12	wheelmade int/ext: 5YR 6/3 lt reddish brown, ware: 5YR 8/4 pink, md lt mineral incls, gd firing, v. hard ware, mineral incls at surface	Iron II
13	56-38.1	1538	krater rim	34	wheelmade int/ext slip: 5YR 6/6 reddish yellow, thin core: 5YR 7/3 pink, sm-md lt mineral incls, md firing, hard ware, ext paint: 2.5YR 3/2 dusty red	Iron II
14	55-35.4	1129	jar rim	28	wheelmade int/ext slip: 10R 6/6 lt red, thin core at int surface: N 6/0 gray, md lt/red mineral/grog incls, pr firing, mineral incls at surface	Iron II
15	55-35.4	1127	bowl rim	26	wheelmade int slip: 5YR 7/6 reddish yellow, ext slip: 5YR 7/4 pink, thick core: N 5/0 gray, md-lg lt mineral incls, md firing, hard ware, int/ext burnishing, int/ext lime encrustation	Iron II
16	56-38.1	1554	jar handle	-	handmade int/ext slip: 5YR 7/6 reddish yellow, thick core: N 6/0 gray, md lt mineral incls, md firing, hard ware	Iron II/Persian
17	58-34.1	1906	jar handle	-	handmade int/ext slip: 10YR 7/3 v. pale brown, thick core: N 5/0 gray, md-lg lt mineral incls, pr firing, hard ware	Iron II/Persian
18	56.34.1	1563	jar handle	-	handmade int: 10YR 7/4 v. pale brown, ext slip: 2.5YR 7/2 lt gray, ware: 2.5YR 7/4 v. pale brown, sm-md lt mineral incls, gd firing, md ware	Iron II/Persian
19	58-34.1	1908	jar handle	-	handmade int/ext slip: 7.5YR 7/4 lt pink, thick core: N 5/0 gray, md-lg lt mineral incls, md firing, hard ware	Iron II/Persian

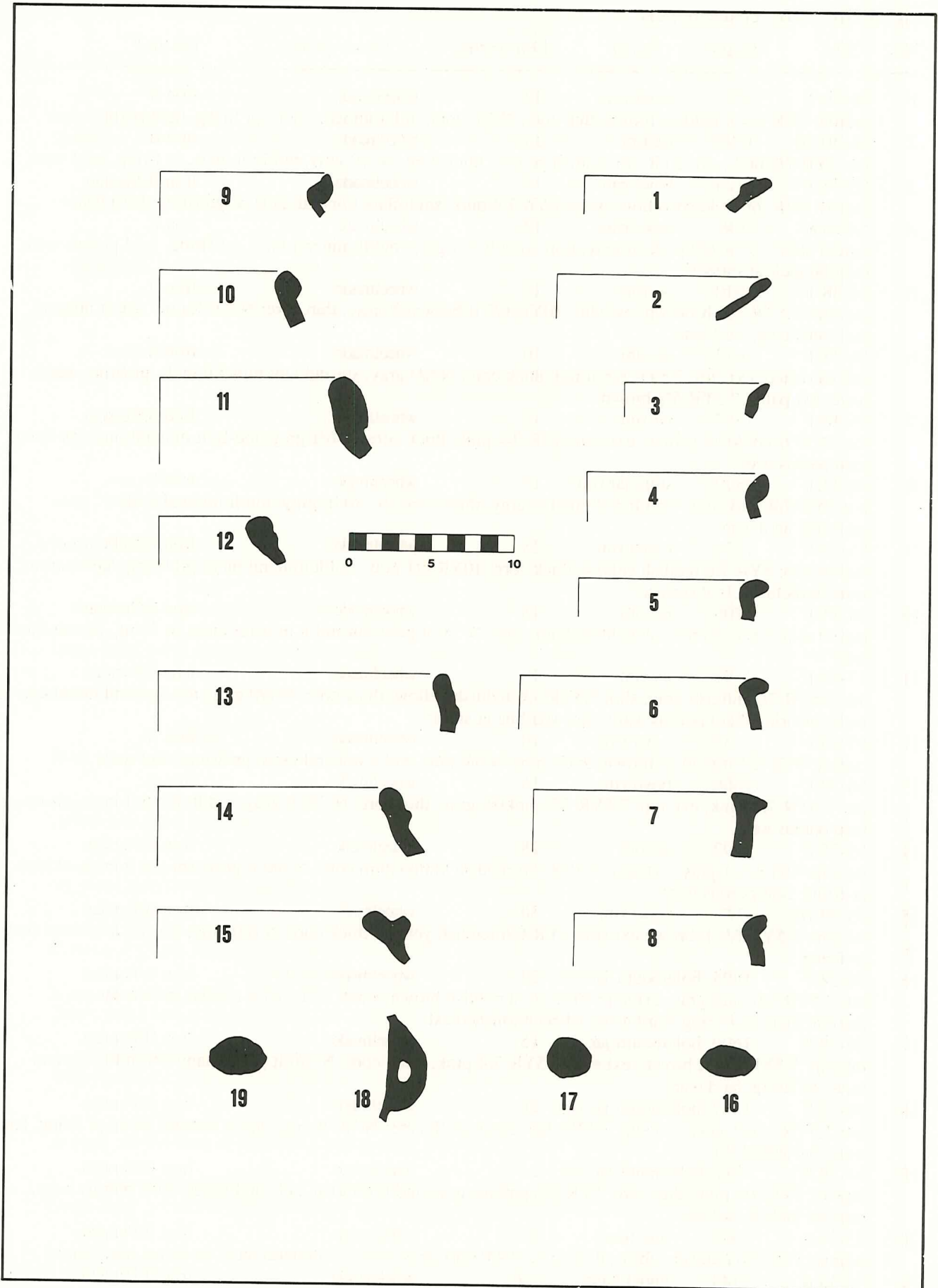


Fig. 4.

Fig. 5. Iron I/II-Persian pottery.

No.	Site	Reg#	Form	Dia (cms)	Description	Dating
1	56-29.7	1273	bowl rim	12	wheelmade	Iron II int/ext: 5YR 6/4 lt reddish brown, thin core: N 6/0 gray, md lt mineral incls, pr firing, hard porous ware
2	56-30.10	1399	jar rim	11	wheelmade	Iron II int: 5YR 7/4 pink, ext: 5YR 7/6 reddish yellow, thick core: N 6/0 gray, md-lg lt incls, pr firing, hard ware
3	55-35.4	1126	bowl rim	14	wheelmade	Iron II/Persian int/ext: 5YR 7/6 reddish yellow, ware: 5YR 7/4 pink, sm lt/dark mineral incls, v. gd firing, hard ware
4	54-36.8	206	bowl rim	12	wheelmade	Iron II int/ext slip: 7.5YR 6/2 pinkish gray, thin core: N 6/1 gray, md lt mineral incls, gd firing, hard porous ware, mineral incls at surface
5	56-38.1	1610	jar rim	12	wheelmade	Iron II int slip: 2.5YR 6/4 lt brown, ext slip: 10YR 6/2 lt brownish gray, thin core: N 7/0 lt gray, sm lt mineral incls, pr firing, hard ware
6	56-38.1	1613	jar rim	10	wheelmade	Iron II int: incrusted, ext slip: 2.5YR 6/6 lt red, thick core: N 6/0 gray, sm-md lght mineral incls, pr firing, hard ware, ext paint: 7.5YR 5/2 brown
7	56-30.1	1352	jar rim	18	wheelmade	Iron II/Persian int: 5YR 7/6 reddish yellow, ext slip: 5YR 7/4 pink, thick core: N 6/1 gray, md-lg lt mineral incls, pr firing, hard porous ware
8	58-34.1	1879	store jar rim	15	wheelmade	Iron I int: 5YR 7/4 pink, ext: 7.5YR 6/2 pinkish gray, thick core: N 7/0 lt, gray, md lt mineral incls gd firing, hard ware
9	55-35.4	1124	krater rim	25	wheelmade	Iron II/Hellenistic? int/ext slip: 5YR 7/6 reddish yellow, thick core: 10YR 6/1 gray, md lt mineral incls, gd firing, hard porous ware, mineral incls at surface
10	58.33.1	1706	jar rim	18	wheelmade	Iron II/Persian int/ext slip: 5YR 7/6 reddish yellow, thick core: N 7/0 lt gray, sm-md lt mineral incls, pr firing, porous hard ware
11	57-31.1	1491	jar rim	18	wheelmade	Iron II/Persian int: 2.5YR 7/2 pinkish gray, slip: 7.5YR 7/6 reddish yellow, thick core: N 6/0 gray, md-lg lt/red mineral/grog incls, pr firing, hard porous ware, lime spalling at surface
12	55-35.4	1134	bowl rim	10	wheelmade	Iron II int/ext: 5YR 6/4 lt reddish brown, thick core: N 6/0 gray, md lt mineral incls, pr firing, hard ware
13	56-38.1	1606	bowl rim	16	wheelmade	Iron II int: 7.5YR 7/4 pink, ext slip: 7.5YR 7/2 pinkish gray, thin core: N 7/0 lt gray, md lt mineral incls, gd firing, hard porous ware
14	55-35.2	1092	jar rim	28	wheelmade	Iron II/Persian int slip: 10YR 6/1 gray, ext slip: 7.5YR 7/6 reddish yellow, thin core: N 6/0 lt gray, sm-md lt mineral incls, pr firing, non-porous ware
15	55-39.7/2	777	bowl rim	30	wheelmade	Iron II/Persian int slip: 2.5YR 6/4 lt brown, ext slip: 5YR 6/6 reddish yellow, thick core: N 6/0 gray, sm-md lt mineral incls, pr firing
16	58-34.1	1895	holemouth jar rim	22	wheelmade	Iron II/Persian int: 2.5YR 4/0 dark gray, ext slip: 5YR 7/6 lt reddish brown, ware: 5YR 6/3 lt reddish brown sm-md lt mineral incls, md firing, hard ware, wheel burnished ext
17	56-38.1	1600	holemouth jar rim	15	wheelmade	Iron II/Persian int slip: 7.5YR 6/4 lt brown, ext slip: 7.5YR 7/4 pink, thick core: N 7/0 lt gray, many sm-md lt mineral incls, gd firing, hard ware
18	58-34.1	1887	holemouth jar rim	26	wheelmade	Iron II/Persian int: 7.5YR N 6/1 gray, ext slip: 2.5YR 6/6 lt red, thick core: N 7/0 lt gray, md lt mineral incls, pr firing, hard ware, burnished ext
19	54-39.7/1	432	holemouth jar rim	21	wheelmade	Iron II/Persian int/ext: 5YR 7/4 pink, thin core: 5YR 7/2 pinkish gray, md lt mineral incls, md firing, hard porous ware, mineral incls at surface
20	55-35.2	1909	disc base	40	wheelmade	Iron II/Persian int/ext: 5YR 7/6 reddish yellow, thin core: N 4/0 dark gray, md-lg lt mineral incls, pr firing, hard ware
21	55.35.4	1144	juglet base	7	wheelmade	Iron II/Persian int/ext slip: 7.5YR 8/4 pink, ware: 7.5Y 8/4 pink, sm-md lt mineral incls, md firing, hard ware, burnished ext

cont. Fig. 5.

No.	Site	Reg#	Form	Dia (cms)	Description	Dating
22	55-35.4	1143	disc base of krater	9	wheelmade int/ext slip: 5YR 7/4 pink, ware: 5YR 7/3 pink, sm-md lt mineral incls, gd firing, hard ware	Iron II/Persian
23	56-38.1	1566	shallow ring base	7	wheelmade int: N 6/0 gray, ext slip: 5YR 7/6 reddish yellow, thick core: N 6/0 gray, sm-md lt mineral incls, pr firing, hard ware	Iron II/Persian
24	56-41.1	1596	ring base	12	wheelmade int: 2.5YR 6/8 lt red, ext slip: 10YR 6/1 gray, thick core: N 7/1 lt gray, md lt mineral incls, md firing, hard porous ware	Iron II/Persian
25	59-33.1	1943	stepped disc base	9	wheelmade int/ext slip: 5YR 7/6 reddish yellow, thick core: N 6/0 gray, sm-md lt mineral incls, pr firing	Iron II/Persian

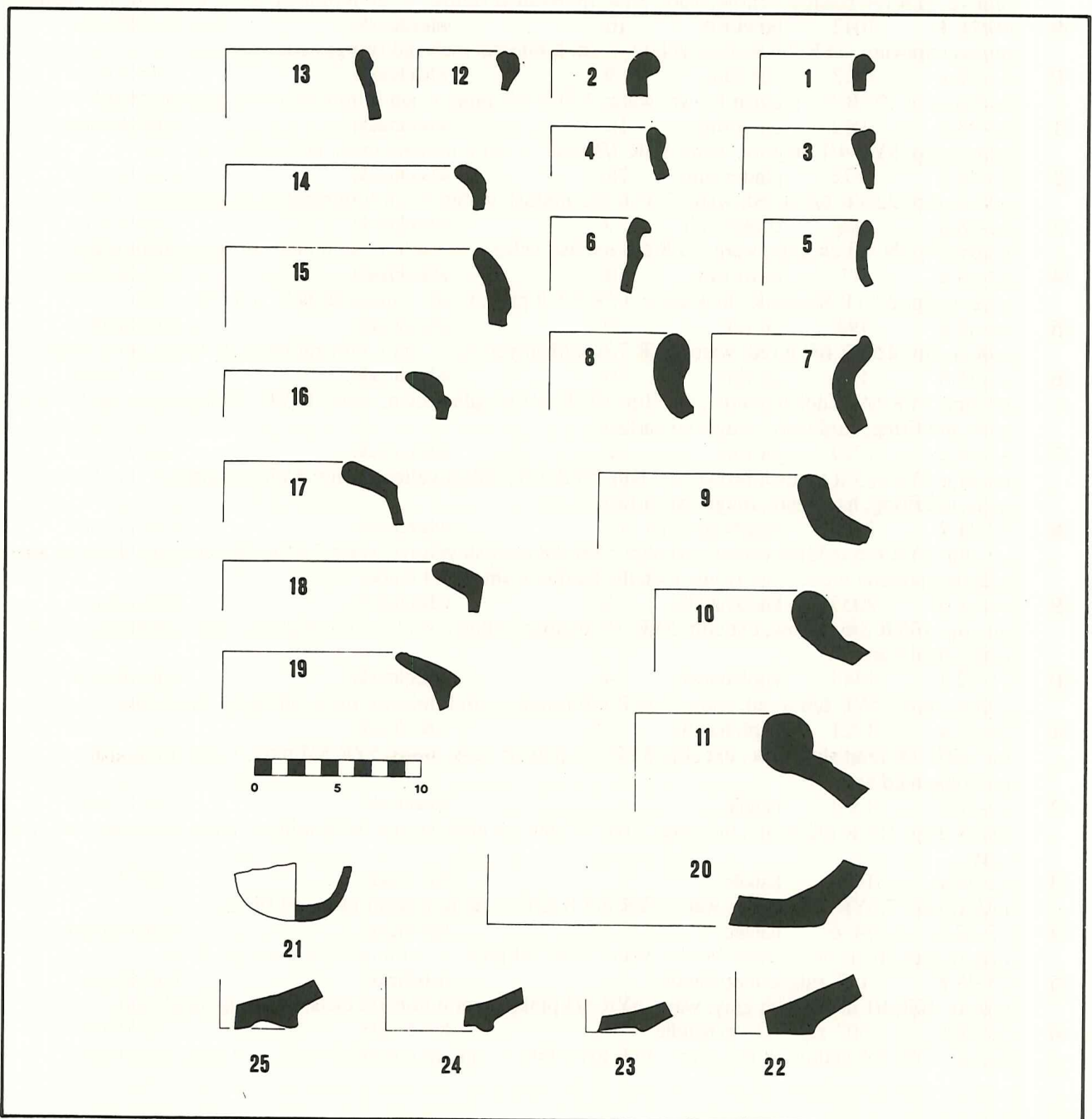


Fig. 5.

Fig. 6. Hellenistic, Early and Late Roman pottery.

No.	Site	Reg#	Form	Dia (cms)	Description	Dating
24	53-38.6	1	bowl rim	12	wheelmade	Late Roman
					int/ext slip: 5YR 6/6 reddish yellow, ware: 5YR 7/6 reddish yellow, sm lt mineral incls, v. gd firing, hard ware	
25	55-37.8	631	bowl rim	12	wheelmade	Late Roman
					int/ext: 5YR 6/6 reddish yellow, ware: 5YR 7/6 reddish yellow, sm lt mineral incls, gd firing	
26	55-36.8	493	bowl rim	17	wheelmade	Late Roman
					int/ext slip: 5YR 7/6 reddish yellow, thin core: 10YR 7/1 lt gray, v. sm lt mineral incls, pr firing, hard ware, rough ext surface	
27	55-36.8	491	bowl rim	9	wheelmade	Late Roman
					int/ext slip: 2.5YR 6/6 lt red, md core: 5YR 7/1 lt gray, sm lt mineral incls, md firing, hard ware	
28	55-38.5/4	650	bowl rim	17	wheelmade	Late Roman
					int/ext: 5YR 6/6 reddish yellow, ware: 5YR 7/6 reddish yellow, v. sm lt mineral incls, gd firing, md hardness	
29	40/41-34.	2042	bowl rim	16	wheelmade	Late Roman
					int/ext slip/ware: 5YR 7/6 reddish yellow v. sm lt mineral incls, gd firing, hard ware	
30	57-32.1	1522	cup rim	9	wheelmade	Late Roman
					int/ext slip: 10YR 5/2 grayish brown, ware: 7.5YR 8/4 pink, v. sm lt mineral incls, gd firing, hard ware	
31	54-33.2	1052	bowl rim	16	wheelmade	Late Roman
					int/ext slip: 5YR 4/1 dk gray, ware: 5YR 7/3 pink, v. sm lt mineral incls, gd firing, hard ware	
32	56-29.3	1172	platter rim	28	wheelmade	Late Roman
					int/ext slip: 2.5YR 6/6 lt red, ware: 7.5YR 8/2 pinkish white, v. sm lt mineral incls, gd firing, hard ware	
33	55-36.8	496	cooker rim	9	wheelmade	Late Roman
					int/ext slip: N 4/0 dk gray, ware: 5YR 6/6 reddish yellow, v. sm lt mineral incls, pr firing, hard ware	
34	53-38.6	47	bowl rim	10	wheelmade	Late Roman
					int/ext slip: 2.5YR 8/4 pink, thick core: 5YR 7/1 lt gray, v. sm lt mineral incls, md firing, hard ware	
35	55-36.8	494	jar rim	9	wheelmade	Late Roman
					int/ext slip: 2.5YR 6/8 lt red, ware: 5YR 7/6 reddish yellow, v. sm lt mineral incls, gd firing, hard ware	
36	55-36.8	492	jar rim	10	wheelmade	Late Roman
					int slip: 5YR 6/6 reddish yellow, ext slip: 10YR 8/3 v. pale brown, ware: 10YR 7/2 lt gray, v. sm lt mineral incls, md firing, hard ware, rough ext surface	
37	42-34.2	1779	jar rim	12	wheelmade	Late Roman
					int slip: 5YR 6/3 lt reddish brown, ext slip: 5YR 7/6 reddish yellow, ware: 5YR 7/3 pink, v. sm lt mineral incls, md firing, hard ware, rough ext surface	
38	57-31.2	1504	ring base of jar	12	wheelmade	Late Roman
					int slip: 5YR 6/6 reddish yellow, ext slip: 5YR 7/8 reddish yellow, ware: 7.5YR 8/6 reddish yellow, v. sm lt/dk/red mineral incls, v. gd firing, metallic hardness, int wheel marks	
39	40/41-34.	2035	knob handle	2.5	wheelmade	Late Roman
					int slip: 10YR 8/6 yellow, ext slip: 5YR 7/6 reddish yellow, ware: N 7/0 lt gray, v. sm lt mineral incls md firing, hard ware	
40	55-32.1	1443	knob handle	4	wheelmade	Late Roman
					int/ext slip: 2.5YR 6/6 lt red, ware: 2.5YR 6/6 lt red, v. sm lt mineral incls, gd firing, hard ware	
41	56-29.4	1221	knob handle	2.5	wheelmade	Late Roman
					int: 5YR 7/6 reddish yellow, ext slip: 5YR 7/2 pinkish gray, ware: 5YR 8/4 pink, v. sm lt/red mineral incls, v. gd firing, hard ware	
42	56-30.1	1363	handle	-	handmade	Late Roman
					int/ext slip: 10YR 8/2 white, md core: 5YR 7/2 pinkish gray, sm-md lt/dk mineral incls, pr firing; hard, porous ware	
43	42-34.2	1796	handle	-	handmade	Late Roman
					int/ext slip: 7.5YR 5/2 brown, ware: 5YR 8/3 lt red, v. sm lt mineral incls, gd firing	
44	55-32.1	1436	handle	-	handmade	Late Roman
					int/ext slip: 10YR 5/2 grayish brown, ware: 5YR 7/4 pink, v. sm lt mineral incls, gd firing	
45	53-39.8	118	ridged loop handle	-	handmade	Late Roman
					int/ext: 10R 4/1 dk reddish gray, ware: 5YR 8/3 pink, v. sm lt mineral incls, gd firing, hard ware	
46	55-36.8	507	ridged loop handle	-	handmade	Late Roman
					int/ext: 5YR 5/6 yellowish red, ware: 5YR 8/1 white, v. sm lt/red mineral incls, gd firing, hard ware	

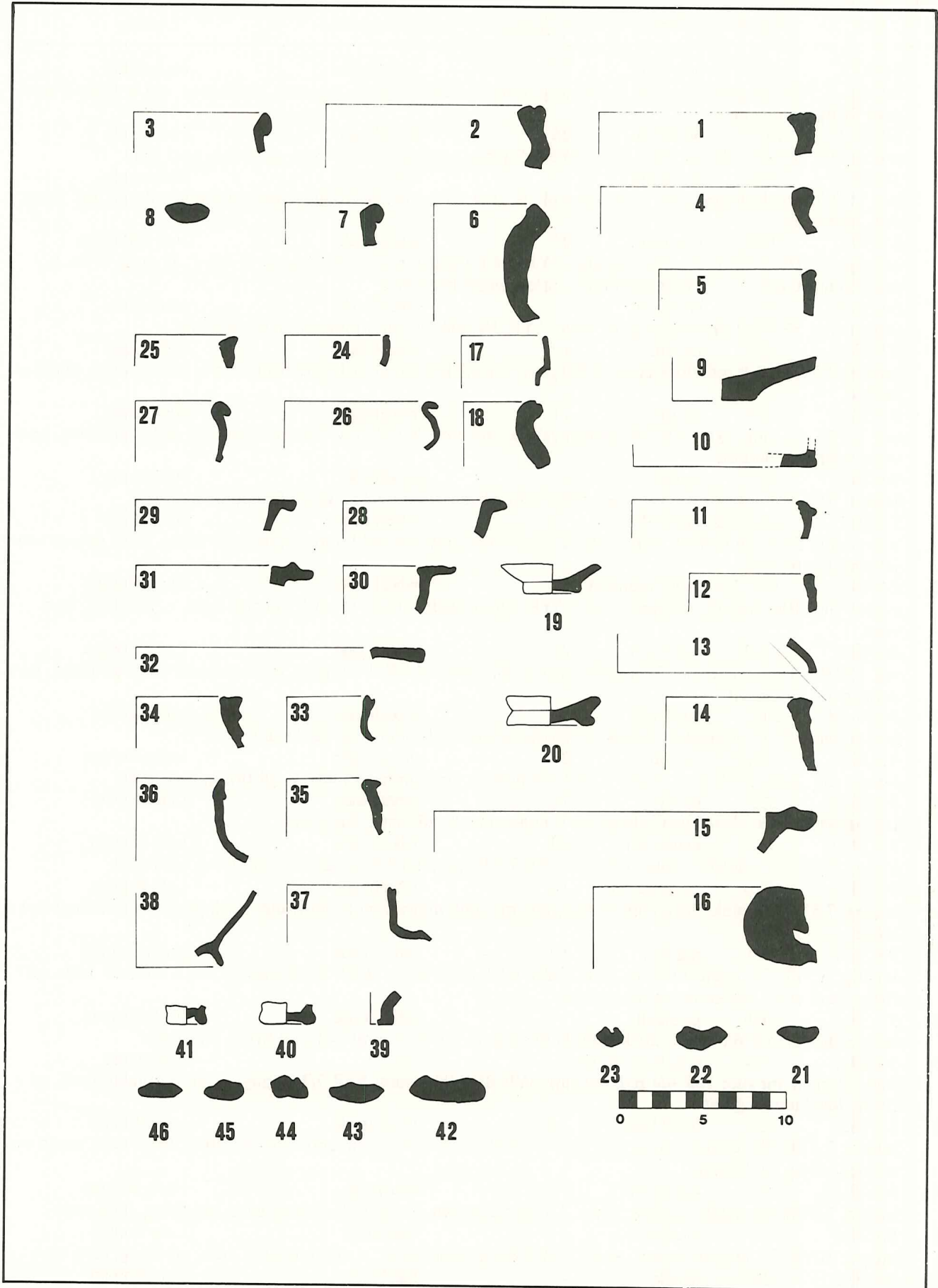


Fig. 6.

cont. Fig. 6.

No.	Site	Reg#	Form	Dia (cms)	Description	Dating
1	59-33.1	1918	bowl rim	12	wheelmade int slip: 7.5YR 7/4 pink, ext slip: N 6/0 gray, ware: 7.5YR 8/4 pink, md core: N 6/0 gray, md lt mineral incls, poor firing, hard ware	Hellenistic
2	58-34.1	1873	bowl rim	26	wheelmade int/ext slip: N 3/0 v. dk, dk gray, ware: 5YR 8/2 pink, v. sm lt mineral incls, gd firing, hard ware	Hellenistic
3	56-38.1	1615	bowl rim	8	wheelmade int: 5YR 7/2 pinkish gray, ext: 5YR 8/3 pink dk gray, thin core: N 6/0 gray, sm-md lt mineral incl, md firing, thin, hard ware	Hellenistic
4	55-30.1	1016	bowl rim	24	wheelmade int slip: 2.5YR N 3/0 v. dk gray, ext slip: 5YR 6/4 lt reddish brown, thick core: N 4/0 v. dk gray, v. sm lt mineral incls, md firing, hard ware, int/ext wheel burnished	Iron II/Persian
5	54-36.3	145	bowl rim	7	wheelmade int/ext slip: 5YR 4/2 dk reddish gray, ware: 5YR 7/4 pink, v. sm lt mineral incls, gd firing	Hellenistic
6	57-32.1	1521	jar rim	12	wheelmade int/ext: 2.5YR 6/6 lt red, thick core: N 5/0 gray, sm-md lt mineral incls, md firing; hard, porous ware, rough ext surface	Hellenistic
7	57-32.1	1523	jar rim	11	wheelmade int: 7.5YR 7/4 pink, ext: 5YR 7/6 reddish yellow, md core: N 6/0 gray, sm-md lt mineral incls, md firing, hard ware, rough ext surface	Hellenistic
8	54-36.8	187	handle	-	handmade int/ext: 5YR 5/6 reddish yellow, ware: 5YR 7/4 pink, sm lt mineral incls, gd firing, md hardness	Hellenistic
9	55-30.1	1022	disc base of bowl	7	wheelmade int/ext slip: 5YR 6/6 reddish yellow, thick core: N 4/0 gray, sm-md lt mineral incls, pr firing, hard, porous ware, int wheel burnished	Hellenistic
10	54-40.6	467	bowl rim fragment	22	wheelmade int/ext slip: 10R 5/6 red, sigillata ware: 7.5YR 7/6, reddish yellow, v. sm lt mineral incls, v. gd firing, hard ware	Early Roman
11	56-30.1	1360	bowl rim	20	wheelmade int: 10YR 6/1 gray, ext slip: 7.5R 6/4 lt brown, thin core: 10YR 7/1 lt gray, md lt mineral incls, gd firing, hard ware, ext abraded	Early Roman
12	40/41-34.	2043	bowl rim	14	wheelmade int/ext/ware: 5YR 7/6 reddish yellow, v. sm dk mineral incls, gd firing, hard ware	Late Roman
13	42-34.2	1786	lid rim	23	wheelmade int/ext slip: 2.5R 5/4 brown, ware: 7.5YR 8/4 pink, v. sm lt mineral incls, v. gd firing, hard ware	Early Roman
14	55-36.7/1	535	jar rim	16	wheelmade int/ext/ware: 5YR 7/6 reddish yellow, sm lt mineral incls, gd firing, hard ware	Late Roman
15	54-39.1/1	413	krater rim	40	wheelmade int/ext: 5YR 7/6 reddish yellow, md core: 5YR 7/1 lt gray, md lt mineral incls, gd firing, hard ware	Late Roman
16	42-34.2	1780	store jar rim	18	wheelmade int/ext: 7.5YR 7/4 pink, thick core: N 6/0 gray, md lt/dk mineral incls, gd firing; hard, porous ware, rough ext surface	Late Roman
17	55-36.8	490	jug rim	10	wheelmade int slip: 7.5YR 7/6 reddish yellow, ext: 10YR 7/1 lt gray, ware: 10YR 7/1 lt gray, v. sm lt mineral incls, gd firing, hard ware, rouletting on rim exterior	Early Roman
18	55-35.2	1096	jar stand	7	wheelmade int/ext slip: 2.5YR 6/6 lt red, thick core: N 6/0 lt gray, sm lt mineral incls, gd firing, hard ware	Early Roman
19	56-29.4	1244	ring base of bowl	6	wheelmade Early Roman int slip: 10R 4/4 red, ext slip: 5YR 8/3 pink, ware: 5YR 7/1 lt gray, v. sm lt mineral incls, gd firing, local terra sigillata	
20	55-36.2	131	bowl base	5	wheelmade int/ext: 7.5YR 7/6 reddish yellow, md core: N 7/0 lt gray, v. sm lt mineral incls, gd firing, hard ware, rough ext surface, string cut bottom	Late Roman
21	56-29.11	1311	jug handle	-	handmade int/ext: 7.5YR 6/6 reddish yellow, ware: 7.5YR 5/2 brown, v. sm lt/dk mineral incls, md firing, hard ware	Early Roman
22	56-29.4	1214	jar handle	-	handmade int/ext: 10YR 5/2 grayish brown, ware: 7.5YR 8/4 pinkish white, v. sm lt mineral incls, gd firing, hard ware	Late Roman
23	56-30.1	1343	handle	-	handmade int/ext: 5YR 7/6 reddish yellow, ware: 5YR 8/3 pink, v. sm lt mineral incls, gd firing, hard ware	Late Roman

Fig. 7. Early and Late Byzantine pottery.

No.	Site	Reg#	Form	Dia (cms)	Description	Dating
1	55-36.8	495	cooker rim	10	wheelmade int: 5YR 4/1 dk gray, ext: 10YR 5/1 gray, thin core: N 6/0 pink, sm lt mineral incls, pr firing, hard ware, shallow ribbed ext, lime encrusted	Early Byzantine
2	42-34.2	1784	cooker rim	14	wheelmade int/ext slip/ware: 5YR 7/6 reddish yellow, v. sm lt mineral incls, gd firing, hard ware	Early Byzantine
3	55-36.8	506	cooker rim	16	wheelmade int: 5YR 7/6 reddish yellow, ext slip: 5YR 5/4 reddish brown, ware: 5YR 7/6 reddish yellow, v. sm lt mineral incls, gd firing, hard ware	Early Byzantine
4	60-33.1	1817	cooker rim	14	wheelmade int: 5YR 7/6 reddish yellow, ext slip: 10YR 5/1 gray, ware: 7.5YR 8/4 pink, v. sm lt mineral incls, gd firing, hard ware	Early Byzantine
5	42-34.2	1777	cooker rim	14	wheelmade int/ware: 7.5YR 8/4 pink, ext: 7.5YR 6/2 pinkish gray, v. sm lt mineral incls, gd firing, hard ware	Early Byzantine
6	42-34.2	1794	jar rim	9	wheelmade int/ext: 7.5YR 7/6 reddish yellow, thin core: 10YR 7/1 lt gray, v. sm lt mineral incls, gd firing, md hardness	Early Byzantine
7	54-33.2	1044	jar rim	12	wheelmade int slip: 5YR 5/3 reddish brown, ext slip: 5YR 5/1 gray, ware: 5YR 6/3 lt reddish brown, v. sm lt mineral incls, md firing, hard ware	Early Byzantine
8	42-34.2	1799	bowl rim	14	wheelmade int: 2.5YR 7/6 reddish yellow, ext: 2.5YR 7/2 pinkish gray, ware: 7.5YR 8/4 pink, sm-md lt minera, incls, gd firing, md hardness	Early Byzantine
9	55-32.2	1442	ring base	8	wheelmade int/ext: 5YR 7/6 reddish yellow, thin core: 5YR 7/2 pinkish gray, v. sm-sm lt mineral incls, gd firing, hard ware	Early Byzantine
10	57.32.1	1516	jug base	12	wheelmade int slip/ext slip/ware: 5YR 7/3 pink, sm-md lt mineral incls, gd firing, md hardness	Early Byzantine
11	54-33.2	1072	jug base	u/d	wheelmade int: 5YR 6/3 lt reddish brown, ext: 10YR 7/3 very pale brown, thick core: 5YR 7/2 pinkish gray, few sm-md lt mineral incls, gd firing, soft ware, rough ext surface	Early Byzantine
12	56-29.4	1243	handle	-	handmade int/ext: 7.5YR 5/2 brown, ware: 5YR 7/3 pink, few sm lt mineral incls, gd firing, md hardness	Early Byzantine
13	58-34.1	1877	handle	-	handmade int/ext slip: 10YR 7/3 very pale brown, ware: 2.5YR 6/6 lt red, few v. sm lt mineral incls, gd firing, md hardness	Early Byzantine
14	55-35.2	1107	handle	-	handmade int/ext: 2.5YR 6/6 lt red, ware: 5YR 8/3 pink, v. sm-md lt mineral incls, md firing, hard ware	Early Byzantine
15	60-33.1	1808	platter rim	26	wheelmade int/ext: 5YR 7/6 reddish yellow, ware: 5YR 7/6 reddish yellow, v. sm lt mineral incls, gd firing; hard, non-porous ware	Late Byzantine
16	54-39.7/1	441	casserole rim	22	wheelmade int/ext: 5YR 7/6 reddish yellow, ware: 5YR 7/6 reddish yellow, v. sm lt mineral incls, gd firing; hard, non-porous ware, ext slightly ribbed	Late Byzantine
17	55-29.1	1316	jar rim	14	wheelmade int/ext: 5YR 7/6 reddish yellow, thick core: 10YR 7/2 lt gray, v. sm lt mineral incls, gd firing; hard, non-porous ware, rough ext surface	Late Byzantine
18	56-34.2	1579	jar rim	11	wheelmade int/ext: 5YR 7/4 pink, ware: 5YR 7/1 lt gray, sm lt mineral incls, md firing, hard ware, rough ext surface	Late Byzantine
19	54-33.2	1042	jar rim	12	wheelmade int/ext slip: 7.5YR 7/2 pinkish gray, ware: 5YR 7/1 lt gray, sm lt mineral incls, md firing; soft, porous ware	Late Byzantine
20	55-36.10	569	jar rim	10	wheelmade int: 5YR 6/6 reddish yellow, ext slip: 5YR 8/3 pink, ware: 5YR 7/6 reddish yellow, sm lt mineral incls, gd firing, hard ware, rough ext surface	Late Byzantine
21	54-39.5/3	423	cooker rim	13	wheelmade int: 5YR 7/6 reddish yellow, ext slip: 10YR 6/1 gray, thick core: 10YR 7/1 lt gray, v. sm lt mineral incl, gd firing, hard ware, rough ext surface	Late Byzantine
22	55-38.5/4	651	jar rim	11	wheelmade int/ext: 5YR 7/6 reddish yellow, ware: 5YR 7/6 reddish yellow, sm lt mineral incls, gd firing, hard ware, rough ext surface	Late Byzantine

cont. Fig. 7.

No.	Site	Reg#	Form	Dia (cms)	Description	Dating
23	55-35.2	1094	store jar rim	10	wheelmade int/ext: 2.5YR 6/6 lt red, thick core: 5YR 7/1 lt gray, sm lt mineral incls, md firing, hard ware, rough ext surface	Late Byzantine
24	55-36.8	500	ring base of bowl	8	wheelmade int slip: 2.5YR 5/6 red, ext: 10YR 7/4 very pale brown, thick core: 10YR 6/1 lt gray, v. sm lt mineral incls, md firing, hard ware, rough ext surface	Late Byzantine
25	60-33.1	1871	ring base	11	wheelmade int/ext: 5YR 7/6 reddish yellow, ware: 5YR 7/6 reddish yellow, v sm lt mineral incls, gd firing, hard ware	Late Byzantine
26	60-33.1	1866	disc base of jar	9	wheelmade int: 7.5YR 7/4 pink, ext: 10YR 7/3 very pale brown, thick core: N 7/0 lt gray, v. sm lt mineral incls, md firing, hard non-porous ware	Late Byzantine
27	56-29.4	1149	store jar handle	11	hand made ext slip: 7.5YR 8/4 pink, ware: 2.5YR 6/4 reddish brown, sm-md lt mineral incls, gd firing, hard, non-porous ware	Late Byzantine
28	56-29.4	1175	jar handle	-	handmade ext: 5YR 8/3 pink, ware: 5YR 8/3 pink, v. sm lt mineral incls, gd firing, hard ware, rough ext surface	Late Byzantine
29	59-31.1	1742	jug handle	-	handmade ext: 2.5YR 6/6 lt red, ware: 2.5YR 6/6 lt red, few v. sm lt mineral incls, v. gd firing, hard non-porous ware, smooth ext surface	Late Byzantine
30	59-31.1	1765	jug handle	-	handmade int slip: 7.5YR 7/8 reddish yellow, ext slip: 10YR 5/2 grayish brown, thick core: 5YR 7/1 lt gray, few v. sm lt mineral incls, gd firing, porous ware, rough ext surface	Late Byzantine
31	48-37.1	1951	casserole rim/handle	24	handmade int: 5YR 5/4 reddish brown, ext slip: N 4/0 dk gray, md core: N 4/1 dk gray, md-v. lg lt/dk mineral incls, md firing, int wheel marks, rough ext surface	Late Byzantine

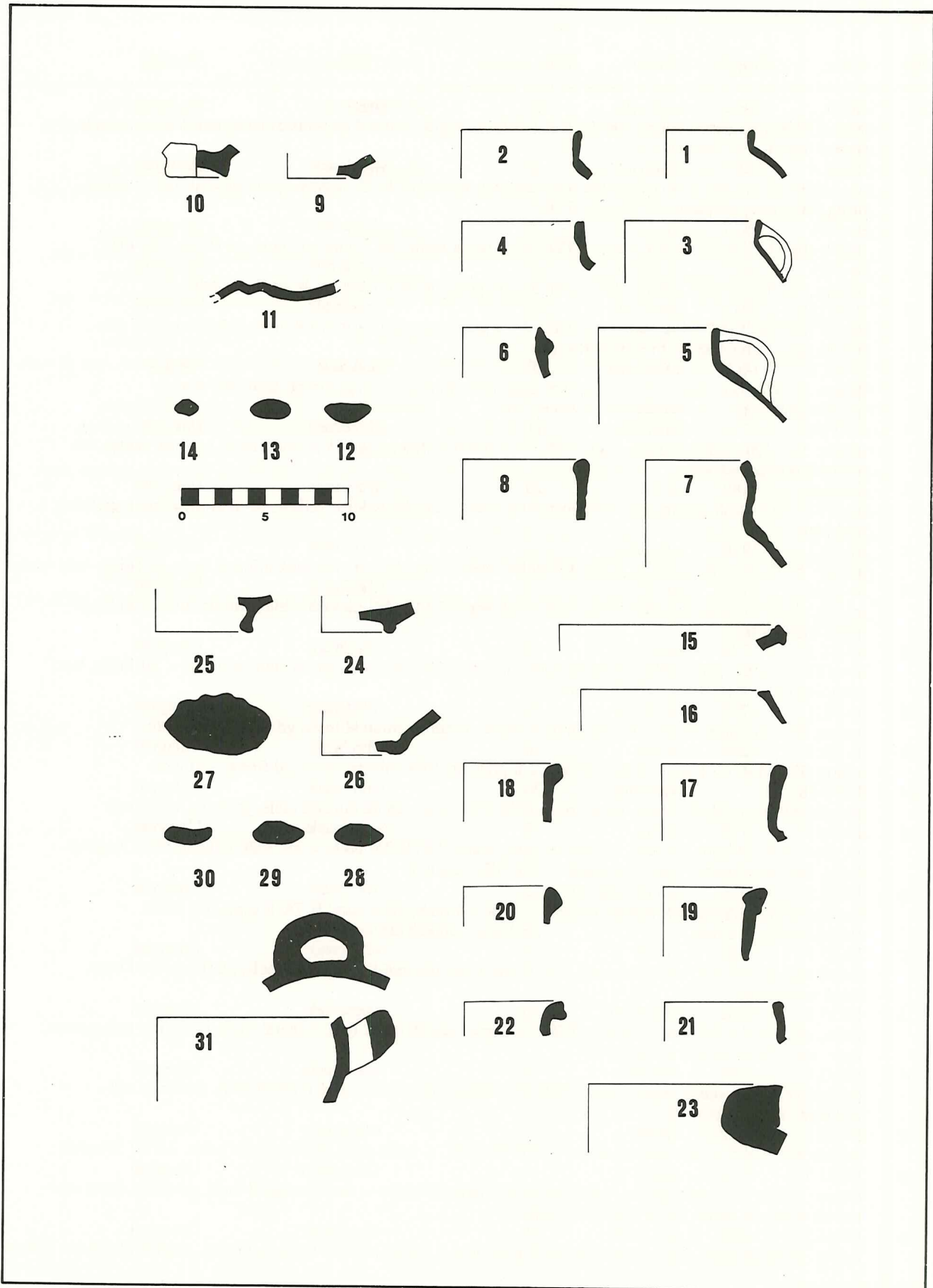


Fig. 7.

Fig. 8. Umayyad-Abbasid pottery.

No.	Site	Reg#	Form	Dia (cms)	Description	Dating
1	48-27.1	2004	bowl rim	25	wheelmade	Umayyad
	int/ext: 5YR 7/6 reddish yellow, thick core: 10YR 7/1 lt gray, sm-md dk mineral incls, md firing, hard non-porous ware int/ext burnished slip					
2	56-29.4	1202	bowl rim	10	wheelmade	Umayyad
	int: 10YR 7/3 v. pale brown, ext: 10R 6/4 weak red, ware: 10YR 7/2 lt gray, sm lt mineral incls, v. good firing, soft ware, ext paint: 2.5YR 3/6 dk red					
3	60-33.1	1826	bowl rim	14	wheelmade	Umayyad
	int/ext slip: 7.5YR 5/2 brown, ware: 7.5YR 8/2 pinkish white, sm lt mineral incls, gd firing, soft ware					
4	54-30.1	933	bowl rim	22	wheelmade	Umayyad
	int/ext: 5YR 6/6 reddish yellow, thick core: 5Y 5/1 gray, sm dk mineral incls, pr firing, hard ware					
5	40/41-34.	2041	krater rim	23	wheelmade	Umayyad
	int/ext slip: 10YR 8/2 white, thin core: 5YR 7/1 lt gray, sm-md lt/dk mineral incls, md firing; hard non-porous ware, wavy incised line ext below rim					
6	56-32.1	1465	pithos rim	20	handmade	Abbasid
	int/ext: 5Y 4/1 gray, ware: 5Y 4/1 gray, sm-large lt/dk mineral incls, gd firing, hard, non-porous ware, thumb mark decoration ext below rim					
7	59-31.1	1757	bowl rim	11	wheelmade	Umayyad
	int/ext: 5YR 7/6 reddish yellow, ware: 5YR 7/6 reddish yellow, v. sm dk mineral incls, v. good firing, md hardness non-porous ware					
8	56-29.4	1189	jar rim	20	wheelmade	Umayyad
	int: 5YR 7/6 reddish yellow, ext: lime encrusted, ware: 5YR 7/6 reddish yellow, sm lt mineral incls, gd firing, hard ware					
9	59-33.1	1938	bowl rim	12	wheelmade	Umayyad
	int slip: 5YR 7/4 pink, ext slip: 10YR 8/2 white, ware: 5YR 7/4 pink, md lt/dk mineral incls, gd firing, hard ware					
10	59-31.1	1732	jar rim	9	wheelmade	Umayyad
	int slip: 5YR 7/4 pink, ext slip: 2.5YR 6/6 lt red, ware: 7.5YR 8/2 pinkish white, sm dk mineral incls, gd firing, md hardness					
11	59-31.1	1736	bowl rim	9	wheelmade	Umayyad
	int: 5YR 8/3 pink, ext: 2.5YR 5/4 reddish brown, ware: 5YR 8/3 pink, sm dk mineral incls, v. gd firing, hard ware, ext paint: 2.5YR 5/4 reddish brown					
12	59-31.1	1755	bowl rim	12	wheelmade	Umayyad
	int/ext: 5YR 8/3 pink, ware: 5YR 8/2 pinkish white, v. sm dk mineral incls, gd firing, hard ware					
13	56-29.4	1204	jar rim	14	wheelmade	Umayyad
	int/ext slip: 5YR 7/2 lt gray, ware: 10YR 7/2 lt gray, sm lt/dk mineral incls, gd firing, soft ware					
14	53/54-38.	43	bowl rim	20	wheelmade	Umayyad
	int/ext: 5YR 7/6 reddish yellow, thick core: 10YR 7/1 lt gray, sm dk mineral incls, gd firing, hard ware					
15	42-34.2	1778	jar rim	13	wheelmade	Umayyad
	int slip: 5YR 7/3 pink, ext slip: 7.5YR 7/4 pink, ware: 7.5YR 7/4 pink, v. sm lt/dk mineral incls, v. good firing, hard, non-porous ware, ext paint: 7.5YR 5/2 weak red					
16	59-31.1	1756	rim of large jar	25	wheelmade	Umayyad
	int slip: 7.5YR 7/6 reddish yellow, ext slip: 7.5YR 7/4 pink, thick core: N 7/0 lt gray, few md lt mineral incls, gd firing, hard ware, smooth ext surface					
17	59-33.1	1924	jar rim	22	wheelmade	Umayyad
	int/ext slip: 2.5YR 8/2 white, md core: 2.5YR 6/6 lt red, few md-lg lt mineral incls, gd firing, hard ware, rough ext surface					
18	48-37.1	1968	krater rim	16	wheelmade	Umayyad
	int/ext slip: 10YR 7/2 lt gray, ware: 10YR 7/1 lt gray, sm dk (rare: lg lt) mineral incls, gd firing; soft, porous ware, wavy lines incised ext below rim					
19	60-33.1	1864	ring base	8	wheelmade	Umayyad
	int/ext: 5YR 7/6 reddish yellow, ware: 5YR 7/6 reddish yellow, few sm lt mineral incls, gd firing, md hardness, non-porous ware					
20	60-33.1	1852	handle	-	wheelmade	Umayyad
	int/ext: 10YR 8/3 v. pale brown, ware: 7.5YR 8/4 pink, v. sm lt incls, gd firing, ext paint: 2.5YR 5/4 pink					
21	59-33.1	1722	handle	-	wheelmade	Umayyad
	int/ext: 10YR 7/3 v. pale brown, ware: 2.5YR 8/2 pinkish white, v. sm dk mineral incls, gd firing, hard, non-porous ware, ext paint: 10YR 7/3 reddish gray					
22	42-34.2	1790	pot stand	10	wheelmade	Umayyad
	int/ext: 5YR 7/4 pink, thick core: 5YR 7/1 lt gray, few v. sm dk mineral incls, md firing, slightly rough ext surface					

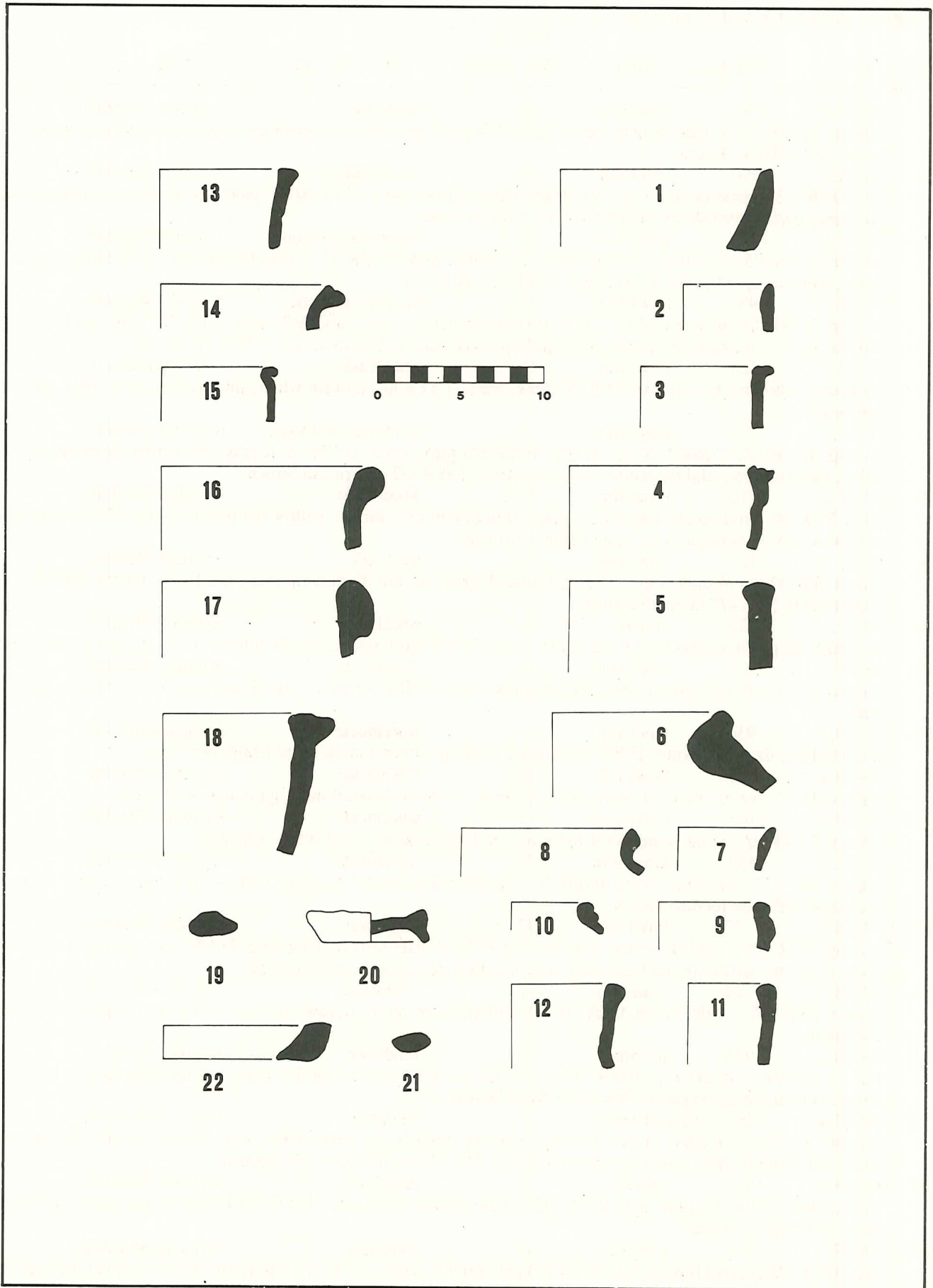


Fig. 8.

Fig. 9. Ayyubid-Mamluk pottery.

No.	Site	Reg#	Form	Dia (cms)	Description	Dating
1	56-29.4	1192	bowl rim	26	handmade int/ext: 510YR 7/3 v. pale brown, ware: 7.5YR 7/4 pink, sm lt mineral incls, gd firing, md hardness, int/ext paint: 10YR 3/1 v. dk gray	Ayyubid-Mamluk
2	56-29.4	1190	bowl rim	20	wheelmade int: 10YR 8/3 v. pale brown, ext: 5YR 7/6 reddish yellow, ware: 10YR 8/3 v. pale brown sm-md lt mineral incls, gd firing, int/ext burnish, ext paint: 5YR 5/4 reddish brown	Ayyubid-Mamluk
3	56-29.4	1238	krater rim	32	handmade on mould int: 5YR 7/6 reddish yellow, ext slip: 10YR 8/2 white, ware: 10YR 7/, v. pale brown, sm-md lt mineral incls, gd firing, hard ware, ext burnish, ext paint: 7.5YR 4/2 dk brown	Ayyubid-Mamluk
4	54-30.1	932	bowl rim	27	slow wheel made int slip: 7.5YR 8/4 pink, ext slip: 7.5YR 7/6 reddish yellow, wet smoothed, ware: 5YR 7/4 pink, sm-lg lt mineral incls, md firing, md hardness, slightly porous ware, ext paint at rim: 7.5YR 7/6 brown	Ayyubid-Mamluk
5	60-33.1	1838	bowl rim	14	wheelmade int glaze: yellowish brown, ext: 5YR 7/3 pink, ware: 7.5YR 8/2 pinkish white, sm-md lt mineral incls, gd firing, hard ware	Ayyubid-Mamluk
6	60-33.1	1831	bowl rim	9	handmade on mould int slip: 10YR 4/2 v. pale brown, ext slip: 10YR 8/4 pink, ware: 10YR 7/2 lt gray, sm lt mineral incls, gd firing, md hardness, slightly porous ware, ext paint: 10YR 4/2 dk grayish brown	Ayyubid-Mamluk
7	60-33.1	1816	bowl rim	24	wheelmade int: 2.5YR 6/6 lt red (unglazed), int/ext glaze: transparent over brown, yellow net pattern, ware: 5YR 7/6 reddish yellow, v. sm dk mineral incls, v. gd firing, hard ware	Ayyubid-Mamluk
8	56.32.1	1461	bowl rim	22	handmade int/ext slip: 5YR 7/4 pink, ware: 5YR 7/2 pinkish gray, sm-md dk mineral incls, md firing, int/ext burnish, int/ext paint: 5YR 4/2 dk reddish gray	Ayyubid-Mamluk
9	60-33.	1837	jar rim	14	wheelmade int glaze: dk green, ext paint: 5Y 8/2 white, ware: 2.5YR 6/6 lt red, v. sm. dk mineral incls, gd firing, hard ware	Ayyubid-Mamluk
10	48-37.1	2002	bowl rim	15	wheelmade int glaze: brown/green splash, ext: 5YR 8/3 pink, ware: 5YR 8/3 pink, v. sm dk mineral incls, gd firing, hard ware	Ayyubid-Mamluk
11	54-30.1	936	bowl rim	-	wheelmade int/ext glaze: dk green, ware: 10YR 7/2 lt gray, v. sm dk mineral incls, v. gd firing, hard ware	Ayyubid-Mamluk
12	60-33.1	1823	bowl rim	16	wheelmade int/ext glaze: lt green, mottled, ware: 5YR 8/3 pink, v. sm dk mineral incls, gd firing, hard ware	Ayyubid-Mamluk
13	56-29.3	1165	bowl rim	12	wheelmade int/ext: 2.5YR 8/2 white, ware: 5YR 8/4 pink, sm lt mineral incls, gd firing, soft ware	Ayyubid-Mamluk
14	56.32.1	1459	krater rim	22	wheelmade int/ext slip: 2.5Y 8/2 white, ware: 10YR 7/3 v. pale brown, sm-md dk mineral incls, gd firing, md hard ware, int/ext pt: 5YR 4/4 reddish brown	Ayyubid-Mamluk
15	54-38.3	22	bowl rim	22	handmade int slip: 5YR 6/4 lt reddish brown, ext slip: 10YR 7/3 v. pale brown, thick core: N 5/0 gray, sm-md lt mineral incls, pr firing, hard ware, int burnished, rope moulded decoration ext below rim	Ayyubid-Mamluk
16	54-38.3	21	krater rim	20	wheelmade int/ext: 5YR 7/6 v. pale brown, thick core: N 6/0 gray, sm-md lt mineral incls, pr firing, int/ext polished, lime encrusted	Ayyubid-Mamluk
17	54-30.1	938	jar rim	22	handmade int: 7.5YR 7/4 pink, ext slip: 10YR 7/3 v. pale brown, thick core: 5YR 7/3 pink, sm-md lt/dk mineral incls, md firing, md hardness, ext paint: 5YR 4/4 reddish brown	Ayyubid-Mamluk
18	60-33.1	1869	base of krater	12	handmade int slip: 5YR 6/4 lt reddish brown, ext slip: 5YR 6/2 pinkish gray ware: 5YR N 7/1 lt gray, sm-md dk mineral incls, md firing/hardness, porous ware, int paint: 5YR 5/2 reddish gray, ext burnish	Ayyubid-Mamluk
19	60-33.1	1821	jar rim	14	handmade int/ext slip: 7.5YR 7/4 pink, ext: 10YR 7/3 v. pale brown, thick core: 10YR 7/1 lt gray, many md-v. lg mineral incls, pr firing, hard ware	Ayyubid-Mamluk
20	48-37.1	1955	disc base	11	handmade int: 10YR 5/2 grayish brown, ext: 10YR 6/3 pale brown, ware: 10YR 7/1 lt gray sm-md dk mineral incls, pr-md firing, ext paint: 10R 3/6 dk red	Ayyubid-Mamluk

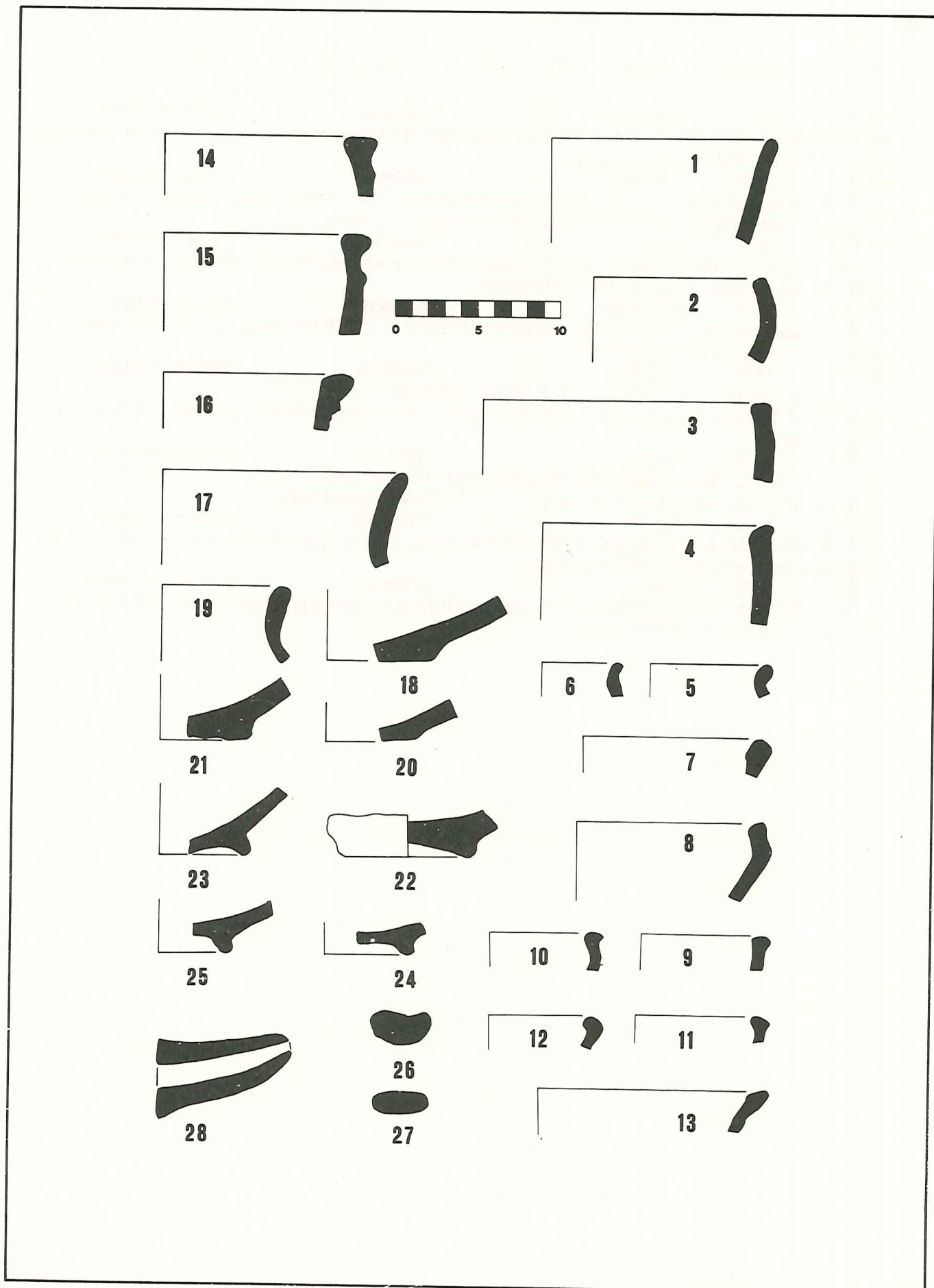


Fig. 9.

cont. Fig. 9.

No.	Site	Reg#	Form	Dia (cms)	Description	Dating
21	56-29.4	1217	krater base	10	handmade int: 5YR 6/6 reddish yellow, ext: 5YR 7/4 pink, thick core: N 5/0 gray md-lg dk mineral incls, pr firing, hard ware, int burnish, mat impression on base	Ayyubid-Mamluk
22	56-29.4	1220	ring base	8	handmade int: 5YR 6/6 reddish yellow, ext slip: 5YR 7/6 reddish yellow, ware: 5YR 7/4 pink, sm-md lt mineral incls, gd firing, hard ware, ext paint: 2.5YR 4/4 reddish brown, rough ext surface	Ayyubid-Mamluk
23	56-32.1	1483	ring base	10	handmade int slip: 7.5YR 8/4 pink, ext slip: 7.5YR 7/6 reddish yellow, thick core: N 7/0 lt gray, sm-md lt mineral incls, md firing, md hardness, int paint: 7.5YR 5/2 brown	Ayyubid-Mamluk
24	60-33.1	1861	ring base	11	handmade int glaze: transparent over brown, yellow net pattern design, ext: 2.5YR 6/6 lt red, ware: 5YR 7/6 reddish yellow, md lt mineral incls, gd firing, hard ware	Ayyubid-Mamluk
25	60-33.1	1868	ring base	8	handmade int/ext glaze: dk green, ext: 10YR 7/4 v. pale brown (unglazed) ware: 7.5YR 8/4 pink, thick core: 5YR 7/0 reddish yellow, md lt mineral incls, v. gd firing, md hardness, glaze badly abraded	Ayyubid-Mamluk
26	56-32.1	1474	handle	-	handmade int: 5YR 7/6 reddish yellow, ext: 10YR 8/2 white, ware: 5YR 8/2 pinkish white, v. sm lt mineral incls, gd firing, md hardness, sltly porous ware, ext paint: 10YR 4/2 dk grayish brown	Ayyubid-Mamluk
27	56-32.1	1475	handle	-	handmade int: 5YR 7/6 reddish yellow, ext slip: 7.5YR 8/4 pink, ware: 5YR 8/4 pink, few sm-md lt mineral incls, gd firing, hard ware, ext paint: 2.5YR 4/4 brown	Ayyubid-Mamluk
28	54-38.3	27	spout	-	handmade int: 10YR 7/3 pink ext slip: 10YR 8/2 white ware: 5YR 8/2 lt brownish gray, sm-md lt mineral incls, md firing, md hardness, ext paint: 10YR 5/2 brown	Ayyubid-Mamluk

Table 1
 Sites in the Amman Region Reported by Glueck in
Explorations in Eastern Palestine, III (1939)

<i>Site Name</i>	<i>Glueck Site No.</i>	<i>ASGA Site No.</i>
1) Abdoun	203	
2) Dabuq	218	
3) Khelda [Khilda]	231	56-29.1
4) Kh. Abdoun	200	
5) Kh. Abdoun East	201	
6) Kh. Ain el Beida	243	
7) Kh. Erjan [Arajan]	237	54-36.4
8) Kh. Erjan North	239	55-37.2
9) Kh. Badran	268	
10) Kh. [Thogat] el Beider	240	56-38.1
11) Kh. ehd Dheina [Utheina]	208	
12) Kh. Feradiyeh	n/n	
13) Kh. Hanotiyeh	210	
14) Kh. Jeranin	242	54-38.3
15) Kh. Kursi	213	
16) Kh. Kursi South	212	
17) Kh. Morbat Badran	269	
18) Kh. Muslim	248	58-34.1
19) Kh. Shmesani	214	
20) Kh. Umm ed Dab'a	215	54-32.1
21) Kh. Umm el Kheleifeh	n/n	59.33.1
22) Kh. Umm Rujum	246	
23) Kh. Umm es Summaq	216	54-30.1
24) Kh. Weibdeh	236	
25) Kom Yajuz	250	
26) Qasr Abdoun	199	
27) Qasr Khelda	231	56-30.1
28) Qasr Khelda South	230	55-30.1
29) Qasr Nuweijis	241	55-39.3
30) Qasr Ronaq	206	
31) Qasr es Sar	207	
32) Qasr Umm Rujum	247	55-35.1
33) Qasr Wasiyeh	197	
34) el Qeseir	217	
35) Qutnah South	232	54-33.2
36) Rujm Ain el Beida	244	
37) Rujm Erajan [Arajan]	237	
38) Rujm Hanotiyeh	211	
39) Rujm Jebeihah	243	
40) Rujm Juweideh	235	
41) Rujm Malfuf 1	202	
42) Rujm Malfuf 2	"	
43) Rujm Obeid	209	
44) Rujm Qutnah	233	54-33.3
45) Rujm Taihin	196	
46) Sweifiyeh South	204	
47) Sweifiyeh West	205	
48) Sweiwina	198	48-37.1
49) Umm Rujum	245	
50) Yajuz	249	

INTRODUCTION TO TABLE 2: SITE LIST

Table 2 includes all sites identified by ASGA, though it does not list every findspot where artifacts were collected.

Grid References are to the Palestine Grid and are given in standard format: easting, followed by northing.

Unit: kilometre square units are defined by the Palestine Grid and designated using the second and third digit of each coordinate of the southwest corner in inverted order (i.e., northing, then easting; e.g. Unit 53-38 denotes the square kilometre within the

Palestine Grid whose southwest corner lies at 23800-15300).

Site Numbers are assigned by unit, beginning again with "1" in each new unit.

Name: Current local name of actual site or vicinity. J.= Jabal, Kh.= Khirbet, Q.= Qaşr, R.= Rujm, W.= Wadi.

Site Type:

Some sites recorded often had several kinds of surface features. The following are the main types:

Settlement	Tower (square or round)
Architectural remains	Wall line(s)
Stone heap(s)/ <i>rujum</i>	Terrace wall(s)
Cave(s)	Rock shelter(s)
Tomb(s)	Quarry
Press/Basin(s)	Cup mark(s)
Cistern(s)	Lithic scatter

Dating:

Site datings are based on finds from the surface in most cases. In a few instances (e.g., Nuwayjis) style of architecture is taken into account.

UD or ?	Undistinguished/Undatable or Uncertain
UPal	Upper Palaeolithic
EPal	Epi-Palaeolithic
Preh	Undistinguished Prehistoric
Lt Chl	Late Chalcolithic
EB I/II/III/IV	Early Bronze I-IV
MB I/II/III	Middle Bronze I-III
LB I/II	Late Bronze I-II
IA I/II	Iron Age I-II
P	Persian (=Iron III)
Hel	Hellenistic
E/LR	Early/Late Roman
Rom	Undistinguished Roman
E/LByz	Early/Late Byzantine
Byz	Undistinguished Byzantine
Um	Umayyad
Ab	Abbasid
Fad	Fatimid
Ay-Mam	Ayyubid-Mamluk

TABLE 2: ASGA SITE LIST

Unit	Site	T/Sect	F/Spot	Grid Ref	Name	Map	Site Type	Dating
1	53-38	1	8	23877-15368	Ar-Rwaq	7	Quarry, cave	ER
2	53-38	2	8	23878-15377			Stone heaps, wall lines	UD
3	53-38	3	9	23880-15398			Cave/tomb	ER
4	53-38	4	9	23888-15353			Settlement	UD
5	53-38	5	9	23885-15373			Field wall lines	UD
6	53-38	6	10	23898-15392			Tombs/quarry	LR
7	53-38	7	10	23898-15341			Cave/quarry	ER
8	53-39	1	1	23910-15375	Wadi Mirbat	7	Tower	IA II/ER/Um
9	35-39	2	1	23905-15395			Cistern	Rom/Byz
10	53-39	3	1	23905-15335			Tower?	IA II/ER/Um
11	53-39	4	3	23927-15339			Rock shelter	Preh/Byz
12	53-39	5	4	23938-15376			Rock shelter	Preh/IA II/LR
13	53-39	6	4	23934-15383			Rock shelters (3)	Preh
14	53-39	7	4	23934-15342			Tower, quarry, basins, cpmrks	UD
15	53-39	8	5	23946-15333			Tower, tombs, press, basins	Preh/IA II/PR
16	53-39	9	5	23945-15344			Wall lines, cisterns	UPal/UD
17	53-39	10	5	23947-15353			Tower, cup marks	UD
18	53-39	11	6	23957-15347			Tower, cup marks	UD
19	53-39	12	7	23962-15376			Rock shelter	UD
20	53-39	13	7	23969-15360			Rock shelters (2)	UD
21	53-39	14	7	23967-15348			Rock shelter	UD
22	53-39	15	7	23967-15310			Rock shelter	UD
23	53-39	16	7	23967-15355			Stone heaps, archt remains	UPal/LByz/Um
24	54-36	1	4	23633-15457	Erjan	7	Cistern, quarry	ER
25	54-36	2	4	23637-15449			Quarry	ER
26	54-36	3	5	23648-15478			Settlement, wall lines, caves	IA II/Hel/ER/LR/Byz/Um
27	54-36	4	5	23646-15461	Kh. Erjan		Settlement	LR/Byz/Um/Ay-Mam
28	54-36	5	6	23658-15476	Erjan		Tower	LByz/Um
29	54-36	6	6	23655-15441			Cave	Um/Ay-Mam
30	54-36	7	7	23666-15438			Tower?	IA II/LR
31	54-36	8	10	23673-15448			Quarry	UD Preh/IA II/Byz
32	54-36	9	10	23696-15487			Tower	IA II
33	54-38	1	1	23804-15482		7	Tombs/quarry	ER
34	54-38	2	1	23805-15446			Rockcut press, cup marks	ER
35	54-38	3	1	23804-15425	Kh. Jeranin S		Settlement	MBII/Byz/Um/Fad/Ay-Mam/UD
36	54-38	4	1	23808-15402	Kh. Jeranin N		Settlement	ER/Byz/Um/Fad/Ay-Mam
37	54-38	4	5	23828-15428	Ar-Rwaq		Cistern	UPal
38	54-38	5	5	23846-15452			Cup marks	UD
39	54-38	6	5	23847-15438			Cave, cup marks	UD/Preh
40	54-38	7	5	23847-15433			Settlement	EBI/IA II/LR/Byz

TABLE 2: ASGA SITE LIST

	Unit	Site	T/Sect	F/Spot	Grid Ref	Name	Map	Site Type	Dating
41	54-38	8	6	1	23857-15436			Cave/tomb	UD
42	54-38	9	7	2	23866-15445		7	Cistern, cup marks, lithics	Preh/LR
43	54-38	10	8	1	23877-15454			Tombs, cup marks, quarry	EPa/IA II/LR/Um
44	54-38	11	10	3	23897-15423			Cistern	UD
45	54-39	1	1	2	23902-15403		7	Cistern	Rom/Byz
46	54-39	2	3	1	23925-15487	J. Nayfeh		Rock cut press, basin	ER
47	54-39	3	4	1	23937-15458			Archit. remains, field wall	UD
48	54-39	4	4	2	23941-15467			Cistern, basin, wall line	Rom?
49	54-39	5	6	2	23947-15478			Cup marks, lithics	Preh
50	54-39	6	10	1	23996-15448			Towers (2)	IA II
51	54-39	7	10	3	23995-15482			Cave	UD
52	54-39	8	10	4	23995-15425			Cave	UD
53	54-40	1	1	1	24005-15402	J. Nayfeh	7	Cup marks	Preh
54	54-40	2	2	1	24016-15453			Cave	UD
55	54-40	3	2	2	24018-15452			Cistern	UD
56	54-40	4	2	3	24018-15488			Quarry	Rom/Byz
57	54-40	5	2	4	24019-15451			Cave	UD
58	54-40	6	2	5	24020-15472	Nuwajjis		Archit remains	ER
59	54-40	7	4	1	24034-15452	W. Mishilla		Archit remains	EBI-III/IA II
60	54-40	8	5	3	24051-15470			Tower	Preh/LR
61	54-40	9	5	4	24045-15460			Rock shelter	Preh
62	54-40	10	6	2	24059-15479			Rock shelter	Preh
63	54-40	11	7	1	24068-15497			Field wall	UD
64	54-40	12	8	1	24074-15498			Archit remains, field wall	UD
65	54-40	13	8	3	24077-15463			Rock shelter	UD
66	54-40	14	9	2	24058-15465			Caves (2)	Preh
67	54-40	15	9	3	24087-15475			Rock shelters (2)	UD
68	54-40	16	10	1	24097-15496			Tower	UD
69	54-41	1	1	1	24105-15497	Q. Tareq	7	Stone heaps, archit remains	UD
70	54-41	2	1	2	24104-15482			Stone heaps, archit remains	UD
71	54-41	3	1	3	24107-15446	W. Mishilla		Tower	IA II or Rom
72	54-41	4	1	4	24107-15433	Hashmi Zaghl.			
73	54-41	5	1	4	24117-15445	Q. Tareq		Stone heaps (15), lithics	Preh
74	54-41	6	2	1	24117-15445	W. Mishilla		Rock shelter	Preh
75	54-41	7	2	3	24114-15449			Rock shelter	Preh
76	54-41	8	3	1	24123-15489			Stone heap, archit remains	UD
77	54-41	9	3	2	24125-15467			Terrace wall	UD
78	54-41	10	3	3	24123-15449			Rock shelter	UD/Preh
79	54-41	11	4	1	24138-15478			Stone heaps (32), lithics	Preh
80	54-41	12	4	2	21445-15458			Rock shelters (3)	UD

TABLE 2: ASGA SITE LIST

Unit	Site	T/Sept	F/Spot	Grid Ref	Name	Map	Site Type	Dating
81	54-41 13	4	3	24137-15443			Tower (circular)	UD
82	55-36 1	1	1	23600-15517	Al Jurun	7	Quarry	BR
83	55-36 2	1	2	23607-15525			Tombs	UR
84	55-36 3	3	1	23628-15576			Tombs	BR
85	55-36 4	4	1	23634-15517			Cistern	BR
86	55-36 5	4	2	23638-15547			Quarry	BR
87	55-36 6	5	1	23647-15578			Tombs, quarry	Um
88	55-36 7	5	2	23643-15578	Erjan		Quarry	UD
89	55-36 8	6	1	23657-15514			Settlement	HeI/ER/LR
90	55-36 9	6	2	23654-15520			Cave/rock shelter	UD
91	55-36 10	8-9	4-1	23684-15562			Settlement	IA II-P/HeI/ER/Byz
92	55-36 11	10	1	23698-15561			Cup marks, lithics	Preh/IA II, LByz
93	55-36 12	10	3	23698-15547			Basins, cup marks, lithics	Preh/IA II/EByz
94	55-36 13	10	4	23697-15522			Quarry	BR
95	55-37 1	1	1	23705-15568		7	Cup marks	UD
96	55-37 2	2	1	23715-15535			Quarry, cisterns, cave, cpmrk	IA II
97	55-37 3	3	1	23725-15577			Quarry	BR
98	55-37 4	4	1	23736-15537			Caves, quarry, press, cistern	BR
99	55-37 5	4	8	23737-15568			Press	BR
100	55-37 6	5	1	23747-15538			Settlement, quarry, caves	IA II, LR
101	55-37 7	7	3	23766-15562			Quarry, press, basin, cistern	ER/Byz
102	55-37 8	10	1	23798-15522			Cisterns, basins, cup marks	IA II/LR
103	55-37 9	3	3	23726-15518			Quarry	BR
104	55-38 1	5	1	23848-15503	Tareq	7	Cistern, cpmrks (settlement?)	IA II/ER
105	55-38 2	5	2	23843-15503			Rujim	IA II/LR
106	55-38 3	5	3	23845-15522			Rujim	UR
107	55-38 4	6-7-8	2-3	23854-15526			Cisterns, quarry, cpmrks	BR
108	55-39 1	1	1	23905-15595	Nuwayjis	7	Quarry	BR
109	55-39 2	1	2	23907-15540			Quarry	BR
110	55-39 3	3-4	1-1	23907-15539	Q. Nuwayjis		Mausoleum, quarry, cisterns	BR
111	55-39 4&5	5-6	3-4-5	23936-15538	Nuwayjis		Settlement	IA II/ER/LR/E-LByz, Ay-Mam
112	55-39 6	9	1	23988-15531			Quarry	IA II/ER/LR/Ay-Mam
113	55-39 7	10	1	23995-15537			Quarry, rock shelter	Preh/ER
114	55-40 1	1	2	24006-15536	Nuwayjis	7	Cup marks	UD
115	55-40 2	2	1	24018-15518			Cup marks, lithics	Preh
116	55-40 3	2	2	24019-15508			Stone heaps, lithics	Preh/LByz
117	55-40 4	2	3	24018-15554			Cave	LByz
118	55-40 5	3	3	24028-15576			Cave	UD
119	55-40 6	4	1	24037-15577	W. Nuwayjis		Archt remains, terrace walls	UD

TABLE 2: ASGA SITE LIST

Unit	Site	T/Sect	F/Spot	Grid Ref	Name	Map	Site Type	Dating
120	55-40	8	7	24063-15515			Caves, cisterns	UD
121	55-40	9	7	24068-15596			Cave, cupmarks (4)	UD
122	55-40	10	8	24077-15575	W. Mudawarra	7	Rock shelter	Preh
123	55-40	11	8	24016-15578	Qurtuiyya		Rock shelter	Preh
124	55-40	12	10	24094-15572			Basins, cupmarks, lithics	EPal/LR/LByz
125	55-40	13	10	24095-15590	W. Mudawarra		Rock cut tunnel	UD
126	55-41	1	1	24106-15504	Q. Tareq	7	Cup marks, lithics	EPal
127	55-41	2	1	24108-15525			Cup mark, lithics	EPal
128	55-41	3	1	24106-15594	W. Mudawarra		Rock shelters	Preh
129	55-41	4	2	24117-15576	Q. Tareq		Rock shelters	Preh
130	55-41	5	2	24117-15578			Tower	EPal/Hel/Rom/LByz
131	55-41	6	3	24125-15504			Basins (3), cup marks	UD
132	55-41	7	3	24125-15587			Rock shelter	Preh
133	55-41	8	3	21425-15592	W. Mudawarra		Rock shelters (2)	Preh
134	55-41	9	3	24126-15595			Rock shelter	Preh
135	55-41	10	4	24133-15504	Q. Tareq		Basin, 6 cupmarks	Preh
136	55-41	11	4	24134-15512			Cup marks	Preh
137	55-41	12	4	24133-15577	W. Mudawarra		Rock shelter	Preh
138	55-41	13	4	24134-15586			Rock shelter	Preh
139	55-41	14	4	24148-15587			Rock shelter	Preh
140	55-41	15	4	24148-15577			Rock shelter	Preh
141	56-38	1	3-4	23828-15655	Rujm Beider	7	Settlement	LB/IA II-P/ER
142	56-41	1	4	24137-15616	R. Mudawarra	7	Towers (rectangular), enclosure	IA II/ER

TABLE 2: ASGA SITE LIST

Unit	Site	T/Sect	F/Spot	Grid Ref	Name	Map	Site Type	Dating
143	40/41	1	1-8	1	Jazzua		Tombs, cisterns, quarries	Rom/Byz
144	42-34	1	1-2	23430-14200	Umeri W		Settlement	EB/LB/IA/A-M
145	42-34	2	5-6-7	23465-14210	Umeri E		Settlement	ER/LR/Byz/U
146	42-34	3	1-2	23425-14220	Umeri		Tombs	Byz
147	42-34	4	5-6-7	23465-14255	Umeri		Tombs, quarries, cisterns	Rom/Byz
148	48-37	1	6	23757-14809	Swewineh	1 1	Settlement, towers (rect., 6)	IAII/ER/LR/Byz/U/A-M
149	48-37	2	6-7-8	23775-14874	J. Zuhur		Quarry	Rom/Byz
150	48-37	3	9	23784-14885			Tower (square)	IAII/ER/U
151	48-37	4	10	23701-14856			Tower	IAII/ER/Byz
152	48-37	5	10	23700-14862			Tower (circular)	IAII/LR
153	48-37	6	10	23703-14865			Tower	IAII/ER/LR/Byz
154	53-33	1	4	23336-15388	Shemsani	6	Tower (square)	Um
155	54-30	1	3-4	23029-15410	Um es Sumaq	6	Settlement	LR/LByz/U/A-M
156	54-32	1	2-3	23219-15415	Um ed Daba	3	Settlement	LR/LByz/U/A-M
157	54-32	2	2	23216-15435			Tombs	Rom/Byz
158	54-33	1	1	23306-15408	Shemsani	3	Tower (circular)	IAII/EByz
159	54-33	2	8	23375-15429	Qutnah		Settlement	IAII-P/ER/LR/Byz/U/A-M
160	54-33	3	8	23373-15443	Shemsani		Tower (square), lithics	Preh/IAII/ER/U
161	54-33	1?	1	23306-15408	Qutnah	6	Tower (circular)	IAII/LR/Byz
162	54-33	2?	8	23375-15429			Settlement, cisterns, caves	IAII/ER/LR/Byz/U/A-M
163	54-33	3?	8	23373-15443	R. Qutnah		Tower, lithics	Preh/IAII/Byz/U
164	54-46	1	6-7	24658-15437	Marka	8	Settlement, tower (rectangular)	IAII/Rom-Byz/U/A-M
165	55-29	1	8	32967-15556	Khilda	5	Tower (rectangular)	IAII/ER
166	55-30	1	3	23028-15596	Khilda S	6	Tower (rectangular)	Preh/IAII/Hei/E-LByz
167	55-30	2	4	23032-15520			Tower (circular)	IAII
168	55-32	1	9-10	23299-15526	Rujm Brekkeh	3	Settlement, tower (rectangular)	IAII/ER/LR/Byz/UD
169	55-35	1	1	23503-15573	Kharabsheh	6	Towers (circular, 3)	IA II
170	55-35	2	9	23585-15533	Sports City Site		Settlement	Preh/EB/IAII-P/E-LR/LByz/U
171	55-35	3	10	23595-15525			Quarry	ER
172	55-35	4	10	23599-15597			Tower, cistern, cave	IA II-P/Hei/ER/LByz/U

TABLE 2: ASGA SITE LIST

Unit	Site	T/Sect	F/Spot	Grid Ref	Name	Map	Site Type	Dating
173	56-29	1	1	22904-15654	Khilda	6	Settlement, cisterns, caves	ER/LR/LByz/Um/A-M
174	56-29	2	2	22902-15643			Quarry	ER
175	56-29	3	7-8	22989-15626			Settlement	I/II/ER/LR/Byz/Um/A-M
176	56-29	4	8-9	22681-15669	Kh. Othman		Settlement	LB/ER/LR/Byz/Um/A-M
177	56-29	5	2	22975-15608	Khilda		Tower (rectangular)	I/II/ER/LR
178	56-29	6	3	22977-15629			Basin/pool (built)	UD
179	56-29	7	1	22982-15632			Tower (rectangular)	LB/ER/LR/LByz
180	56-29	8	10	22993-15697			Cisterns, curved wall alignments	LR/Byz/Um/A-M
181	56-29	9	2	22991-15691			Tomb/cistern?	I/II/Um
182	56-29	10	3	22997-15690			Tower (rectangular), cistern	LByz
183	56-29	11	4	22939-15683			Caves, rujm	I/II/ER/Byz
184	56-30	1	3-4	23033-15648	Q. Khilda	6	Settlement, tower (rectangular)	E/BI-II/I/II-P/Rom-Byz/Um
185	56-30	2	2	23038-15664	Khilda		Press	Rom
186	56-30	3	3	23046-15689			Tower (square)	I/II/LByz
187	56-30	4	4	23034-15689			Tower (square)	I/II
188	56-30	5	5	23032-15693			Tower (square)	He/I/II
189	56-30	6	6	23031-15697			Tower (square)	I/II/UD
190	56-30	7	1	23044-15647			Channel	UD/ER?
191	56-30	8	2	23042-15604	Khilda	6	Tower (circular)	I/II
192	56-30	9	5-6	23052-15642			Tombs (3)	UD/ER?
193	56-30	10	7	23068-15648			Tower (square)	I/II/ER/Byz/Um
194	56-30	11	8	23072-15648			Tower (square)	I/II/ER
195	56-30	12	2	23079-15696			Field wall	UD
196	56-32	1	2-3	23222-15666	Kh. Fahd	3	Settlement	I/II/He/I/ER/Byz/Ab/A-M
197	56-34	1	6	23455-15534	Daviat Rashed	6	Tower (square), lithics	Preh/I/II/ER/LR/Byz
198	56-34	2	7	23462-15658	W. Ain el Beida		Tower (square), basin, lithics	Preh/I/II/ER/LByz
199	57-30	1	2	23013-15732	Khilda	6	Tower (square)	I/II/LR/LByz
200	57-30	2	5	23042-15734			Tower (square)	I/II/Byz
201	57-31	1	6	23157-15776	Tla al Ali	6	Settlement	I/II/He/I/ER/Byz/Um
202	57-32	1	2	23215-15749	Kh. Salameh	3	Settlement, tower (rectangular)	IA II/He/LR/Byz/Um
203	58-31	1	5	23176-15827	Urn en Nafat	3	Dolmen field	UD
204	58-31	2	7	2312-15841			Settlement	Lt Ch/EBI-II/MBI/II/II/UD
205	58-31	3	8	23172-15831			Settlement, Quarry	MBI-II/He/LR/Byz/Um
206	58-33?	1	6-7	23362-15845	Jubelhah?	3	Settlement?	I/II-P/LByz

TABLE 2: ASGA SITE LIST

Unit	Site	T/Sect	F/Spot	Grid Ref	Name	Map	Site Type	Dating
207	58-34	1 8	1	23476-15852	Kh. Muslim	3	Settlement	IA II-P/HeI/LByz
208	58-34	2 8	2	23474-15841	Jubelhah		Basins, cupmarks	IA II/LR/Byz
209	58-34	3 8	3	23470-15840			Field wall	UD
210	58-35	1 6-7	1	23559-15892	Q. Um Rujum	3	Settlement, tower (rectangular)	IAII/ER/LByz
211	59-31	1 7-8-9	1	23172-15945	Jubelhah	3	Settlement	LR/Byz/U/m/Ay-Mam
212	59-32	1 8-9	1	23280-15958	RSS Rujm	3	Tower (circular)	UD
213	59-33	1 6-7	1	23360-15905	Kh. Hleileifeh	3	Settlement	IA II-P/ER/U/m
214	59-33	2 7	1	23362-15930	Jubelhah		Tombs	ER
215	59-33	3 8	1	23373-15513			Cisterns, caves, press	ER
216	59-33	4 8	2	23372-15545			Tombs	ER/Byz
217	59-33	1 6-7	1	23360-15905	Hleileifeh N	3	Settlement	IAII/HeI/ER/Byz/U/m
218	59-33	2 7	1	23362-15930			Tombs	ER/Byz
219	59-33	3 8	1	23373-15913			Tombs, cisterns, press, cave	IAII
220	59-33	4 8	2	23373-15945			Tombs	ER/Byz
221	60-33	1 6-7	1	23364-16041	Um Zweitineh	3	Settlement	IA II/ER/LR/U/m/Byz/A-M
222	61-33	1 7	1	23360-16150	Ain Merhef	3	Tombs	ER?

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