

Arrowhead	1	2533
Sickles	16	2534-49
Borer	1	2550
Microliths	2	2551-2
Scrapers	3	2553-5
Endscrapers	3	2556-8
Nosed scraper	1	2559
Backed blades	4	2560-3
Ret. blade	1	2564
Inv. ret. blade	1	2565
Trunc. blade	1	2566
Serrated blade	1	2567
Knives	4	2568-71
Denticulates	2	2572-3
Hammerstone	1	2574

**Table E11:1 – Total numbers of tools**

		Whole	Fragmentary	Total		
Flakes	Primary	8	2	10	Total flakes	451 (66.7%)
	Secondary	135	55	190		
	Tertiary	174	77	251		
Chips	Primary	0	0	0	Total chips	47 (6.9%)
	Secondary	4	3	7		
	Tertiary	21	19	40		
Bladelets	Primary	0	0	0	Total bladelets	49 (7.2%)
	Secondary	8	3	11		
	Tertiary	13	25	38		
Blades	Primary	0	1	1	Total blades	78 (11.5%)
	Secondary	12	8	20		
	Tertiary	17	40	57		
Flake-blades	Primary	1	0	1	Total fl-blades	51 (7.5%)
	Secondary	18	5	23		
	Tertiary	14	13	27		
<b>Total</b>		<b>425</b>	<b>251</b>	<b>676</b>		
Total Primary blanks	12	(1.8%)				
Total Secondary blanks	251	(37%)				
Total Tertiary blanks	413	(61%)				

**Table E11:2 - Blank form distribution**

General chert	631	(77.3%)
Translucent chert	19	(2.3%)
Fossiliferous chert	10	(1.2%)
Red/white/black chert	16	(2.0%)
Variegated chert	2	(-)

Obsidian	83	(10.0%)
Quartz	22	(2.7%)
Limestone	32	(3.9%)
Greenstone	1	(-)
n=816		

**Table E11:3 - Raw materials in the collection**

<b>Tool type</b>	<b>Raw Material</b>	<b>Number</b>	
Sickles	Obsidian	1	
Sickles	Chert	15	
Scrapers	Chert	4	
Endscrapers	Obsidian	1	
Endscrapers	Chert	2	
Knives	Chert	4	
Backed blades	Obsidian	1	
Backed blades	Chert	4	
Trunc. blades	Obsidian	1	
Microliths	Chert	2	
Denticulate	Chert	3	
Serrated blade	Chert	1	
Borer	Chert	1	
Arrowhead	Obsidian	1	
Totals	Obsidian	4	(13.3%)
	Chert	36	(86.6%)
Utilized blade	Obsidian	2	
Utilized blade	Chert	7	
Utilized bladelet	Obsidian	1	
Utilized bladelet	Chert	2	
Utilized flake	Chert	2	
Totals	Obsidian	3	(21.4%)
	Chert	11	(78.6%)
Cores: Bladelet	Chert	2	
Bladelet	Quartz	2	
Flake	Chert	4	
Flake	Quartz	1	
Chip	Obsidian	3	
Chip	Chert	12	
Totals	Obsidian	3	(12.5%)
	Chert	18	(75.0%)
	Quartz	3	(12.5%)
Flaked lumps	Chert	9	
Flaked lumps	Quartz	1	
Flaked lumps	Limestone	1	
Flaked lumps	Greenstone	1	

Total 12 1.3% of total collection of 815 pieces

Cores are 2.9% of entire collection

Shatter is 12.7% of entire collection

**Table E11:4 - Raw material usage**

	<b>Blank type</b>	<b>Whole</b>	<b>Frag.</b>
Flake:	Primary	8 (1.4%)	2 (0.4%)
	Secondary	216 (38.7%)	47 (6.9%)
	Tertiary	140 (25.1%)	64 (11.5%)
Chips:	Primary	0	0
	Secondary	4 (0.7%)	2 (0.4%)
	Tertiary	9 (1.6%)	9 (1.6%)
Bladelets:	Primary	0	0
	Secondary	8 (1.4%)	3 (0.5%)
	Tertiary	10 (1.8%)	16 (2.9%)
Blades:	Primary	0	1 (0.2%)
	Secondary	12 (2.2%)	7 (1.3%)
	Tertiary	14 (2.5%)	32 (5.7%)
Flake/blades:	Primary	1 (0.2%)	0
	Secondary	17 (3.0%)	4 (0.7%)
	Tertiary	11 (2.0%)	11 (2.0%)
Blanks total	558 (82.3%)		
Shatter	93 (13.7%)		
Flaked lumps	9 (1.3%)		
Cores	18 (2.7%)		
<b>Total chert</b>	<b>678 (100.0%)</b>		

**Technological aspects:**

Microflaking	14 (2.5%)
Snaps	34 (6.0%)
Half-moon snaps	17 (3.0%)
Hinges	29 (5.1%)
Siret	5 (0.9%)
Plunged	4 (0.7%)
Double-bulbed	3 (0.5%)
Janus	1 (0.2%)

**Platforms:**

Plain	281 (73.4%)
Crushed	46 (12.0%)
Cortical	55 (14.4%)
Prepared	1 (0.2%)
Dihedral	0
Total	383 (100.0%)

**Table E11:5 - Chert blank composition**

	<b>Blank type</b>	<b>Whole</b>	<b>Fragment</b>
Flake:	Primary	0	0
	Secondary	3 (3.8%)	6 (7.7%)
	Tertiary	13 (16.8%)	10 (12.0%)
Chips:	Primary	0	0
	Secondary	0	0
	Tertiary	12 (15.5%)	10 (21.9%)
Bladelets:	Primary	0	0
	Secondary	0	0
	Tertiary	2 (2.5%)	9 (11.7%)
Blades:	Primary	0	0
	Secondary	0	0
	Tertiary	1 (1.2%)	7 (9.0%)
Flake/blades:	Primary	0	0
	Secondary	0	0
	Tertiary	2 (2.5%)	2 (2.5%)
Blanks total	77 (92.8%)		
Cores	3 (3.6%)		
Shatter	3 (3.6%)		
Flaked lumps	0		
<b>Total obsidian</b>	<b>83 (100%)</b>		

**Technological aspects:**

Microflaking	26 (33.8%)
Snaps	7 (9%)
Half-moon snaps	5 (6.5%)
Hinges	2 (2.3%)

**Platforms:**

Plain	19 (55.9%)
Crushed	15 (44.1%)
Cortical	0
Dihedral	0
Prepared	0

**Table E11:6 - Obsidian blank composition**

	<b>Blank type</b>	<b>Whole</b>	<b>Fragments</b>
Flake:	Primary	0	0
	Secondary	2 (12%)	0
	Tertiary	11 (65.0%)	0
Chips:	Primary	0	0
	Secondary	0	0
	Tertiary	0	0
Bladelets:	Primary	0	0
	Secondary	0	0
	Tertiary	1 (5.8%)	0
Blades:	Primary	0	0
	Secondary	0	1 (5.8%)
	Tertiary	1 (5.8%)	0
Flake/blades:	Primary	0	0
	Secondary	0	1 (5.8%)
	Tertiary	0	0
Blanks total	17 (81.0%)		
Shatter	1 (4.7%)		
Cores	3 (14.3%)		
<b>Total quartz</b>	<b>22 (100.0%)</b>		
<b>Technological aspects:</b>			
	Microflaking	1 (5.9%)	
	Snaps	1 (5.9%)	
	Hinges	1 (5.9%)	
<b>Platforms:</b>			
	Plain	11 (73.3%)	
	Crushed	3 (20.0%)	
	Cortical	1 (6.7%)	
	Prepared	0	
	Dihedral	0	

**Table E11:7 - Quartz blank composition**

	<b>Blank type</b>	<b>Whole</b>	<b>Fragments</b>
Flakes:	Primary	0	0
	Secondary	4 (16.6%)	2 (8.3%)
	Tertiary	10 (41.7%)	3 (12.5%)
Chips:	Primary	0	0
	Secondary	0	1 (4.1%)
	Tertiary	0	0
Bladelets:	Primary	0	0
	Secondary	0	0
	Tertiary	0	0
Blades:	Primary	0	0
	Secondary	0	0
	Tertiary	1 (4.1%)	1 (4.1%)
Flake/blades:	Primary	0	0
	Secondary	1 (4.1%)	0
	Tertiary	1 (4.1%)	0
Blanks total		24 (74%)	
Shatter		7 (22%)	
Flaked lumps		1 (3.1%)	
<b>Total limestone</b>		<b>32 (100%)</b>	
<b>Technological aspects:</b>			
	Snaps	1 (4.1%)	
	Half-moon snaps	1 (4.1%)	
	Double-bulbed	1 (4.1%)	
<b>Platforms:</b>			
	Plain	9 (52.9%)	
	Crushed	2 (11.8%)	
	Cortical	6 (35.3%)	

**Table E11:8 - Limestone blank composition**

6321	H20/1070
Level Vh/i. A destruction layer.	
A cortical platformed tertiary limestone flake	5.2, 3.1, 1.5
A naturally backed secondary single arete medial chert blade fragment	2.1, 1.2, 0.4
A cortical platformed tertiary chert flake	2.2, 1.6, 0.4
A plain platformed primary chert flake	1.4, 2.9, 1.1
A plain platformed proximal tertiary chert flake fragment	1.7, 1.8, 0.5
A distal secondary chert flake fragment	1.3, 1.7, 0.3
A crushed platformed tertiary chert flake	1.5, 1.1, 0.4
A burnt medial tertiary chert flake-blade fragment	1.7, 1.0, 0.2
A chert shatter fragment	3.1, 2.6, 1.6
A chert shatter fragment	2.5, 2.3, 2.0
A distal tertiary flake fragment	1.8, 3.4, 1.5
A burnt medial secondary chert flake fragment	1.8, 2.2, 0.8
A burnt tertiary chert fragment	1.5, 2.3, 0.5
Also an obsidian flake (H20/1074).	
6304	H20/1030
Level Vg. Destruction rubble overlying floor 5389.	
A plain platformed triple arete secondary chert blade	5.6, 3.4, 0.9
A plain platformed secondary chert flake	4.3, 5.1, 1.4
A cortical platformed tertiary chert flake	3.4, 4.6, 1.5
A plain platformed secondary chert flake	4.9, 4.0, 2.0
A burnt secondary chert fragment	3.8, 2.2, 1.3
A cortical platformed burnt tertiary chert flake	3.4, 3.7, 1.7
A cortical platformed secondary chert flake	2.9, 2.4, 0.8
A burnt chert lump	2.6, 2.3, 1.2
A crushed platformed secondary chert flake-blade	4.2, 1.9, 0.9
A medial single arete tertiary chert bladelet fragment	1.8, 1.1, 0.2
A chert shatter fragment	2.4, 2.3, 0.7
A distal chert flake? fragment	1.1, 1.9, 0.3
A burnt chert fragment	0.8, 1.1, 0.6
A crushed platformed, hinged tertiary chert flake	1.3, 2.1, 1.2
5397	H20/1007
Level Vf/g. A packing layer, i.e. dumped material linked to Phase Vf.	
A plain platformed single arete secondary chert blade	6.3, 3.0, 0.7
A cortical platformed secondary chert flake-blade with half-moon snaps	3.6, 2.0, 0.5
A crushed platformed tertiary chert flake with an edge notch	2.6, 4.3, 0.8
A plain platformed secondary chert flake	2.7, 2.5, 0.3
A crushed platformed single arete tertiary chert blade	4.0, 1.8, 1.2
A medial double arete tertiary utilized obsidian blade fragment	3.1, 1.7, 0.5
A plain platformed tertiary chert flake	1.2, 1.2, 0.3
A distal secondary chert flake fragment	1.2, 2.1, 0.6
A cortical platformed hinged tertiary chert flake	1.9, 2.2, 0.4
A plain platformed secondary chert flake	2.6, 2.0, 0.8
A crushed platformed secondary chert flake	1.2, 1.9, 0.5
A plain platformed hinged tertiary chert flake	1.8, 1.8, 0.4
A chert shatter fragment	1.7, 1.0, 0.8
A chert shatter fragment, refits the above piece	1.3, 1.2, 0.7
A plain platformed tertiary chert flake	1.4, 1.9, 0.4
A medial secondary chert flake fragment	2.6, 1.2, 0.8
5392	H20/992
Level Vf1-2. Pit fill, grey fairly compact material	
A chert pebble fragment	2.7, 2.4, 5.1
A plain platformed secondary chert blade	5.2, 2.7, 0.8
A large plain platformed tertiary chert flake	2.4, 5.2, 0.8



A plain platformed double arete proximal chert blade fragment	3.7, 2.0, 0.8
A chert shatter fragment	3.2, 3.4, 1.0
A plain platformed secondary chert blade	4.3, 1.6, 1.4
A backed secondary double arete chert crescentic blade sickle with gloss	3.7, 1.4, 0.7
A distal secondary chert flake fragment with half-moon snaps	2.6, 1.9, 0.8
A cortical platformed secondary chert flake	2.0, 2.2, 0.5
A cortical platformed tertiary chert flake	1.6, 2.7, 0.9
A cortical platformed tertiary chert flake	2.0, 2.2, 0.3
A secondary chert shatter fragment	2.3, 1.4, 1.1
A crushed platformed secondary chert flake	1.6, 2.1, 0.5
A burnt chert tertiary fragment	2.0, 1.1, 0.7
A plain platformed secondary chert flake	2.4, 2.8, 0.9
A tertiary chert shatter fragment	2.2, 1.1, 0.9
A burnt tertiary flake? Fragment	1.4, 0.4, 0.4

## 5363

H20/905

Level Vf2/3. A packing layer, compact mid brown/grey material underlying Phase f surface.

A plain platformed secondary chert flake	3.4, 3.2, 0.9
A cortical platformed secondary chert flake	4.7, 3.3, 1.5
A plain platformed secondary chert flake	2.8, 4.0, 1.0
A tertiary chert shatter fragment	3.1, 1.7, 0.9
A crushed platformed secondary chert bladelet	2.9, 1.2, 0.4
A burnt tertiary chert fragment	1.8, 1.4, 0.3
A burnt distal tertiary chert flake fragment	0.9, 1.1, 0.3
A burnt secondary flaked chert lump	3.6, 3.6, 4.2
A distal tertiary limestone flake fragment	1.1, 3.4, 0.8
A plain platformed single arete tertiary chert bladelet	2.9, 1.1, 0.4
Also 2 obsidian flakes (H20/907).	

## 5362

H20/914

Level Vf3? Pit fill. Loose fine grained silty with a few inclusions.

A crushed platformed hinged utilized secondary chert flake	4.7, 4.6, 1.7
A plain platformed tertiary chert flake	4.3, 4.5, 1.0
A chert shatter fragment	2.2, 2.1, 1.5
A crushed platformed tertiary chert flake with half-moon snaps	3.8, 5.4, 0.3
A plain platformed tertiary quartz flake	2.3, 2.6, 1.0
A plain platformed tertiary chert flake	1.9, 3.8, 0.7
A limestone shatter fragment	1.5, 1.6, 1.4
A flaked chert shatter fragment	1.3, 2.7, 1.8
A burnt chert lump	1.6, 0.9, 2.3
A secondary limestone chip	1.2, 1.8, 0.3
A secondary chert pebble fragment	3.7, 2.8, 1.5
Also an obsidian flake (H20/911).	

## 1823

H20/389

Level Vf3/4. A hard grey brown fill, a compact layer with an ash dump.

A tertiary chert shatter fragment	4.7, 3.1, 1.4
A plain platformed secondary chert flake fragment	3.4, 2.9, 0.8
A distal secondary chert flake fragment	2.7, 2.5, 0.8
A distal tertiary chert flake fragment with many lateral snaps	3.4, 1.9, 0.2
A plain platformed tertiary chert flake fragment, refits the above piece	3.8, 3.2, 0.3
A burnt secondary chert flake with lost platform	1.9, 2.1, 0.8
A plain platformed secondary chert flake	2.5, 3.6, 1.0
A distal tertiary chert flake fragment	1.7, 2.8, 0.7
A plain platformed hinged secondary chert flake	1.5, 1.7, 0.4
A distal secondary chert flake fragment	2.7, 1.8, 0.9
A distal secondary chert chip	0.8, 1.1, 0.3

5340	H20/827
Level Vf4. Pit fill, mid-brown deposit	
A plain platformed proximal single arete tertiary chert blade fragment	4.9, 2.4, 0.6
A tertiary chert shatter fragment	2.2, 3.8, 1.6
A flaked chert lump	5.2, 4.8, 3.8
A distal tertiary chert flake fragment with edge snaps	2.2, 3.6, 0.5
A plain platformed tertiary chert flake	2.6, 3.0, 1.0
A plain platformed secondary chert flake	3.9, 3.6, 0.5
A plain platformed secondary chert flake-blade	3.8, 1.6, 0.7
A plain platformed tertiary chert flake	2.8, 2.0, 0.8
A distal tertiary chert flake fragment	2.2, 2.2, 0.3
A cortical platformed hinged secondary chert flake	1.8, 3.1, 0.5
A plain platformed secondary Siret chert flake	2.9, 1.6, 0.8
A plain platformed double arete tertiary chert blade	4.5, 1.8, 0.3
A medial single arete tertiary chert blade fragment	1.2, 1.9, 0.3
A plain platformed secondary chert flake	5.0, 2.7, 0.8
A distal secondary chert flake with edge snaps	5.5, 3.6, 0.3
5328	H20/758
Level Vf4. A consolidation layer, a light brown compact fill.	
A plain platformed hinged single arete tertiary chert blade	3.9, 2.0, 0.7
A plain platformed tertiary chert flake	2.7, 3.5, 1.2
A distal tertiary chert flake fragment	3.0, 3.2, 0.7
A plain platformed secondary chert flake	1.9, 2.1, 1.0
A plain platformed proximal tertiary chert flake fragment	2.2, 3.7, 1.0
A plain platformed secondary chert flake	1.7, 4.2, 1.0
A plain platformed proximal tertiary chert flake-blade fragment	1.9, 2.0, 0.5
A plain platformed denticulate on a single arete proximal tertiary chert blade fragment	3.5, 2.6, 0.7
A crushed platformed hinged secondary chert flake	2.5, 2.8, 1.2
A plain platformed secondary chert flake	2.0, 1.8, 1.3
A chert shatter fragment	3.0, 1.8, 0.7
A chert shatter fragment	1.5, 1.2, 0.6
A tertiary chert chip fragment	0.9, 1.1, 0.2
A burnt chert tertiary fragment	1.0, 1.0, 0.9
Also 2 obsidian flakes (H20/759)	
1819	H20/375
Level Vf4. A burnt soil forming fill under walls.	
A burnt tertiary chert flaked fragment	2.8, 3.3, 1.6
A plain platformed secondary chert flake	4.3, 2.3, 1.3
A plain platformed tertiary chert bladelet	3.5, 1.2, 0.5
A plain platformed tertiary chert flake	1.9, 1.7, 0.3
A cortical platformed tertiary chert flake denticulate	3.5, 3.1, 0.8
A plain platformed tertiary chert flake	2.6, 2.2, 1.0
A plain platformed tertiary chert flake	2.4, 3.1, 0.8
A tabular primary chert fragment with snaps	1.7, 1.3, 0.4
A plain platformed tertiary chert flake	2.3, 1.8, 0.8
A tabular primary chert fragment with snaps	1.5, 1.3, 0.5
A tertiary chert shatter fragment	2.5, 1.2, 0.6
A tertiary chert shatter fragment	1.9, 0.9, 0.4
A distal double arete tertiary chert blade fragment	2.5, 1.5, 0.4
A plain platformed tertiary chert flake	2.5, 2.7, 0.8
Also an obsidian flake (H20/376)	
1810	H20/333
Level Ve/f. A clay packing layer below IVa.	
A flaked secondary chert lump	4.7, 2.8, 1.7
A burnt plain platformed tertiary chert Siret flake	2.9, 2.0, 1.1

A plain platformed end-snapped tertiary chert flake	3.1, 3.2, 0.7
A plain platformed microflaked tertiary chert flake	3.5, 2.5, 0.5
A large plain platformed secondary chert flake on a small pebble	1.8, 2.8, 0.9
A corticated platformed tertiary chert flake	1.6, 1.2, 0.4
A distal tertiary chert bladelet fragment	2.1, 1.0, 0.2
A crushed platformed tertiary chert flake	2.7, 1.3, 0.3
A plain platformed burnt proximal tertiary chert flake fragment	0.7, 1.4, 0.3
A distal tertiary chert flake fragment	1.3, 2.1, 0.3
A tertiary chert shatter fragment	1.6, 1.2, 0.5
Also an obsidian flake (H20/338)	
5333	H20/780
Level Ve. Pit fill	
A single platform and direction of flaking core on a chert pebble	6.3, 4.5, 3.8
A flaked secondary chert lump	4.8, 4.2, 2.7
A distal microflaked secondary chert flake fragment	4.5, 4.7, 1.7
A plain platformed secondary chert flake	5.7, 2.8, 1.2
A large plain platformed secondary chert flake	4.2, 4.7, 1.7
A flaked chert lump	5.3, 3.8, 2.4
A flaked limestone lump	4.7, 4.2, 2.2
A plain platformed secondary chert flake	4.3, 2.5, 1.7
A single platformed and flaking direction chip chert core	1.7, 3.6, 3.8
A cortex platformed secondary limestone flake	3.2, 4.4, 1.5
A crushed platformed, double arete secondary chert flake-blade	5.3, 2.9, 1.2
A distal secondary chert flake fragment	2.1, 2.8, 0.3
A plain platformed tertiary chert flake with edge snaps	3.3, 2.6, 0.7
A distal tertiary chert flake fragment	1.7, 2.5, 1.0
A plain platformed secondary chert flake	3.2, 2.0, 0.8
A plain platformed secondary chert flake	1.8, 1.4, 0.4
A chert shatter fragment	0.6, 1.5, 0.3
A distal tertiary chert flake fragment	0.8, 1.2, 0.2
A plain platformed double arete tertiary chert blade with many edge snaps	6.9, 2.1, 0.4
Also 3 obsidian flakes (H20/702)	

**Table E11:9 – Data for units yielding 10 or more pieces**

9	1838	H20/467 w/s (includes micro-debitage)
8	1814	H20/363
7	5384	H20/968
	5362	H20/901
	5394	H20/999
6	1820	H20/379
	1826	H20/402
	5332	H20/773
5	4249	H19/189 (all refit into a single burnt lump)
	2406	R18/110
	1272	H20/585
	1289	H20/630
	5300	H20/652
	5334	H20/797
	178	Q19/6
	5344	H20/887
	6323	H20/1063
	5370	H20/934 (4 of these refit to a burnt lump)

**Table E11:10 – Lists of units yielding between 5 and 9 pieces**