tool No *Fig.*	site	tre-nch	me-ter, object	depth cm	find No	period *context*	taxon type kind	outline lying	sideway view, vertical	cross section	edge protr. EPI	edge sep. L R	side L R	butt	len-gth	wid-th	thick-ness	slen-der-ness	flat-ness	max width MWI	max thick MTI	rock kind, *type colour*	mass g	pro-ces-sing	state of preser-vation
1 *9a*	Du	IX-i	124W 107N	50	201	**e. Zed** *periphery*	cigar adze				*50*	g g	⊂ ⊃	◎	>9.7 *10.5*	**3.6**	**3.3**	*2.9*	1.1	*45*	*50*	sandstone	>149 *170*	**g**, p	☒ ↕
2 *9b*	Du	IX-k	122W 108N	105	209	**L. Mes** *periphery*	cigar axe-adze						⊂ ⊃		>2.4 *8.5*	2.9	2.6	*2,9*	1.1			sandstone *coarse*	>31	**g**, p	□ ↕
3 *9c*	Ma	-	-	-	*1*	*e. Zed?* *?*	cigar axe-adze						⊂ ⊃	◎	>5.0 *7.5*	2.6	2.1	*2.9*	1.2	*30*	*50*	sandstone	>42 *65*	g, p	◨ ?
4 *9f*	Du	IV	25W 50N	25-30	43	post-Z *settl.*	cigar axe						⊂ ⊃	□	>5.2 *7.0*	2.4	2.2	*2.9*	1.1			sandstone	>35 *50*	**g**, p	◨ ↕
5 *9d*	Sz	ED	24E 3S	70-75	931	**e. Zed** *shore*	cigar axe						⊂ ⊃	◎	>6.0 *10.0*	3.4	3.0	*2.9*	1.1	*70*	*70*	sandstone *coarse*	>97 *150*	**g**, p	◨ ⊗
6 *9e*	Sz	ED	21E 2S	30-35	332	**post-Z** *settl.*	cigar axe					g g	⊂ ⊃	□	>9.6 *11.0*	3.7	3.3	*3.0*	1.1	45	45	sandstone	>193 *230*	**g**, p	☒ ⊗
7 *9g*	Du	VI-c	5W 29N	25-30	51	post-Z *cem.*	cigar axe-adze						⊂ ⊃	□	>2,2	>4.8 *5.3*	>4.5 *5.0*		1,1			gneiss	>61	**g**, **p**	◙ ↕
8 *10a*	Du	VI-b	2W 29N	20	93	post-Z *cem.*	tongue adze				39	g g	⊄ ⊃	◎	**6.8**	**2.9**	**2.0**	2.35	1.45	40	54	meta-siltstone	**54**	**g**, p	⌫
9 *10d*	Du	VI-f	5W 25N	35-40	67	**e. Zed** *cem.*	tongue adze				*38*		⊄ ⊅	⊟	>9.2 *10.5*	**4.2**	**2.4**	*2.5*	1.75	*40*	*40*	greenschist *amphibolic*	>150 *170*	**g**, p, f	☒ ↖
10 *10b*	Du	VI-c	4W 27N	30-40	537 *heart*	**Zed** *cem.*	tongue adze				*30*	? g	⊄ ⊅	⊟	>11.3 *12.5*	**5.8**	**3.1**	*2.16*	1.87	*38*	*46*	meta-sandstone	>297 *330*	**g**, p, f	☒ ↖
11 *10c*	Du	VI-c	5W 31N	25-30	486	Zed *cem.*	tongue adze				*38*	g g	[⊅		>7.3 *10.6*	5.0	2.6	*2.12*	1.92	*43*	*63*	meta-siltstone	>125 *200*	**g**, p, **f**	☒ ↗
12 *11a*	Sz	ES	33E 3N	80-85	264	**L. Mes** *littoral*	tongue adze				*45*	g g	⊂ ⊃	◎	>8.1 *9.5*	**4.2**	**3.0**	*2.26*	1.4	32	53	trachyte *glazy*	>156 *185*	**g**, **p**, **f**	☒ ↖ ▦
13 *11c*	Sz	EQ	26E 8S	120-125	1204	**E. Mes** *littoral*	tongue adze						[⊃	◎	>7.6 *10.7*	>4.9 *5.2*	3.3	*2.06*	*1.58*	34	66	gneiss	>167 *260*	**g**, **p**, **f**	◨ ↖
14 *11b*	Sz	FE	20E 10S	35-40	205	**e. Zed** *shore*	tongue adze						[⊃	◎	>7.4 *12.0*	5.4	2.8	2.2	1.9	48	52	sandstone	>150 *250*	**g**, **p**	◨ ⊗
15 *11d*	Sz	EG	29E 3S	35-40	113	**Zed** *littoral*	tongue adze						⊂ ⊃	□	>8.2 *14.0*	6.4	>3.0 *3.3*	*2.19*	*1.94*	*66*	*43*	gneiss	>229 *415*	**g**, p	◨ ↖ ⊗
16 *11f*	Du	XIII-b	8E 26N	40-45	383	Zed *settl.*	tongue adze						[ ]	⊟	>8.5 *13.0*	5.5	3.5	*2.35*	1.6	*52*	*42*	gneiss (+granite)	>215 *335*	**g**, f	◨ ↕
17 *12a*	Du	XII-c	21E 8N	20-25	178	**L. Neo** *shore*	tongue adze						[ ]	◎	>8.1 *12.0*	5.6	3.3	*2.15*	1.7	*60*	*83*	schist	>202 *300*	**g**, p, f	◨ ⊗
18 *12b*	Du	VI-x	5W 12N	30-35	655	**Zed** *cem.*	tongue adze						[⊃	◎	>10.4 *11.8*	>5.2 *5.5*	>3.1 *4.5*	*2.15*	*1.2*	*82*	*82*	gneiss	>184 *295*	**g**, p	☒ ▦
19 *12c*	Sz	SO	12W 2S	10-15	38	L. Neo *settl.*	tongue adze						⊂ ⊃	◎	>5,0 *11.0*	4.6	2.6	*2.4*	*1.8*	*80*	*80*	granite-gneiss	>92 *210*	**g**, p, f	◨ ⊗ ▦
20 *11e*	Du	VI-s	4W 15N	20-25	723	post-Z *cem.*	tongue adze						⊂]	□	>4.8 *12,5*	>5.0 *5.5*	>3.6 *3.8*	*2.4*	*1.4*			granite	>128 *340*	**g**, **p**	◨ ↕
21 *13a*	Sz	SC	1E 3S	40-45	966	**Zed** *hut*	kidney axe-adze				*36*	a g	< ⊅	⊟	>10.5 *11.5*	**4.7**	**3.1**	*2.4*	1.5	*50*	*30*	greenschist	>213 *240*	**g**, p, f	☒ ↖
22 *13c*	Du	V	13W 95N	0-10	17	L. Neo *settl.*	kidney axe-adze				28	? g	< ⊅		>1.7	>3.9 *4.5*	>1.3					meta-sandstone	>9	**g**	◁ ↕
23 *13b*	Sz	EP	33E 7S	130-140	476	**e. Zed** *littoral*	kidney axe-adze				*43*	a g	<]	⊟	>10.2 *11.3*	5.5	2.9	*2.1*	1.9	45	75	quartzite	>213 *250*	**g**, **p**	☒ ↖
24 *13e*	Sz	FB	25E 10S	70-75	421	**e. Zed** *littoral*	kidney axe-adze					g g	⊂ >	⊟	>10.2 *11.5*	6.6	3.5	*1.75*	1.9	*57*	*75*	siltstone	>359 *400*	**g**, **f**	☒ ↖
25 *13d*	Sz	SM	11W 3S	25-30	715	post-Z *settl.*	kidney axe-adze						⊄ ⊃	⊟	>5.6 *9.0*	3.6	2.1	*2.5*	1.7	50	45	gneiss	>57 *90*	**g**, p, f	◨ ↖
26 *14a*	Sz	EP	30E 6S	100	325	**e. Zed** *littoral*	bulgy axe				30	g g	⊂ ⊃	□	**10.8**	**6.2**	**3.8**	1.74	1.63	43	48	diorite	**397**	**g**, p	⌫
27 *14b*	Sz	EQ	28E 9S	115-120	1201	**L. Mes** *littoral*	bulgy adze				40	g g	⊂ ⊃	⊟	**10.3**	**6.0**	**3.8**	1.72	1.58	47	55	gneiss *biotite*	**304**	**p**	⌫ ▦
28 *14c*	Du	S-peak	W-bank	-	1	*e. Zed* *shore*	bulgy adze				29	g g	⊂ ⊃	◎	**12.2**	**7.0**	**4.6**	1.74	1.52	30	66	gneiss	**566**	g, **p**	⌫ ▦
29 *14d*	Sz	EN	20E 6S	40-45	449	**e. Zed** *shore*	bulgy axe						⊃	□	>4.5	>3.8	>2.8					amphibolite	>59	**g**, p	◙ ?
30 *14e*	Sz	FB	24E 10S	75-80	466	**e. Zed** *littoral*	bulgy axe						⊃	□	>5.3	>3.8	>1.9					amphibolite	>42	**g**, p	◙ ?
31 *15a*	Ma	-	-	-	*2*	*Zed?* *?*	lenticular axe				28	g g	< >	⊟	**11.1**	**7.7**	**2.4**	1.44	3.2	42	45	schist	**259**	**p**	⌫
32 *15b*	Sz	FA	22E 8S	35-40	391	**Zed** *shore*	lenticular axe				28	g g	< >	⊟	**6.0**	**4.4**	**1.4**	1.36	3.14	45	66	schist	**37**	**p**, **f**	⌫ ▦
33 *15c*	Sz	AE	127E 139N	0-10	7	**L. Neo** *shore*	lenticular axe				38	a a	< ⊃	X	**4.7**	**3.3**	**1.4**	1.42	2.36	30	30	granite-gneiss	**23**	**p**	⌫ ▦
34 *15d*	Du	VI-w	9W 15N	0-15	61	L. Neo *cem.*	lenticular axe				26	a a	< >	⊟	**8.5**	**5.1**	*1.6*	1.67	*3.19*	35	35	schist	>75 *80*	**p**, **f**	⌫ ▦
35 *15e*	Du	VI-t	1W 15N	25-30	938	**Zed** *cem.*	lenticular axe				37	g g	< >	⊟	**5.5**	**6.2**	**2.0**	0.89	3.1	53	53	sandstone *Jotnian*	**64**	**g**, **f**	⌫

tool No *Fig.*	site	tre-nch	me-ter, object	depth cm	find No	period *context*	taxon type kind	outline lying	sideway view, vertical	cross section	edge protr. EPI	edge sep. L R	side L R	butt	len-gth	wid-th	thick-ness	slen-der-ness	flat-ness	max width MWI	max thick MTI	rock kind, *type colour*	mass g	pro-ces-sing	state of preser-vation
36 *16a*	Du	VI-c	4W 31N	30	519	Zed *cem.*	flat adze				*37*	g a	[ ]	⇹	>8.1 *10.0*	4.6	1.9	*2.17*	2.42	*36*	*25 + 75*	meta-sandstone	>135 *170*	**g**, p, f	☒ ↖
37 *16c*	Du	IX-i	124W 109N	31-40	173	L. Neo *periphery*	flat axe						⊂⊃	⇹	>10.7 *14.0*	6.1	2.8	*2.3*	2.18	*40*	*80*	greenschist	>143 *200*	**g**, p, **f**	◨ ↕
38 *16b*	Sz	EJ	24E 4S	20-25	81	post-Z *shore*	flat axe						[ ]	⇹	>7.5 *11.0*	5.1	2.1	*2.16*	2.43	*60*	*75*	siltstone	>130 *180*	**g**, p, **f**	◨ ↖
39 *16d*	Sz	EG	29E 3S	35-40	100	Zed *littoral*	flat axe						< ⊃	⇹	>5.1 *13.0*	>5.8 *6.0*	2.0	*2.17*	*3.0*	*50*	*75*	greenschist	>80 *210*	**g**, p, **f**	◨ ↖
40 *17a*	Sz	EW	27E 3N	35-40	204	e. Zed *shore*	flat axe-adze						[ ]	▭	>6.1 *16.5*	>7.7 *8.0*	2.8	*2.06*	*2.86*	*50*	*70*	quartzite	>210 *520*	**g**, p, f	◨ ↯
41 *17c*	Sz	FB	24E 11S	105-110	824	L. Mes *littoral*	flat adze						[ ]	▭	>6.1 *11.5*	>3.4 *5.5*	2.4	*2.1*	*2.3*			greenschist	>98 *290*	**g**, p, f	◙ ↕
42 *17b*	Sz	AF	128E 138N	25-30	67	L. Neo *littoral*	flat axe-adze						[	⇹	>4.0	>1.6	>1.9 *2.1*					sandstone	>16	**g**, p	◙ ↕
43 *17d*	Sz	AD	121E 138N	35-40	161	Zed *settl.*	flat axe				22	a g	[>		>6.1 *13.5*	>5.5 *6.2*	>2.6 *2.8*	2.2	2.2	*60*	*65*	diabase	>128 *280*	**g**, p, f	◧ ⊗
44 *17f*	Sz	SE	2E 8S	20-25	349	post-Z *settl.*	flat axe						[ ]	⇹	>7.1 *10.5*	5.0	2.4	*2.1*	*2.1*	73	75	greenschist	>142 *190*	g, **p**	◨ ↕
45 *17e*	Du	VI-i	gr. VI-13	40-50	70	Zed *grave*	flat adze				28	g g	[ ]	◎	>7.0 *9.5*	4.7	2.2	*2.02*	2.14	*79*	*82*	diabase	>121 *155*	**g**, p	☒ ↖ ⊗
46 *18a*	Du	VI-f	5W 23N	10-15	7	L. Neo *cem.*	little adze				7	a a	[ ]	▭	**4.6**	**3.5**	**1.3**	1.31	2.69	37	74	diorite	**35**	**g**, p	⌫
47 *18b*	Du	VI-q	12W 29N	10-15	765	L. Neo *cem.*	little adze				8	a a	[ ]	▭	**4.9**	**4.1**	**1.5**	1.19	2.73	37	92	diorite	**54**	**g**, p	⌫
48 *18c*	Sz	SN	11W 1N	30-35	614	post-Z *settl.*	little adze				22	g g	[ ]	▭	**4.5**	**3.9**	**1.2**	1.15	3.25	43	75	andesite	**35**	**g**, p	⌫ ▦
49 *18d*	Sz	SU	5W 2S	25-30	110	post-Z *settl.*	little adze				21	g a	<]	▭	>4,0 *4.2*	2.5	**0.9**	*1.7*	2.78	35	70	amphibolite	>13 *15*	**g**, p, **f**	☒ ◪
50 *18h*	Sz	FB	24E 10S	60-65	200	Zed *littoral*	little adze				42	? g	< >	▭	**6.2**	>4.7 *5.2*	**1.3**	*1.2*	*4.0*	40	58	amphibolite	>44 *55*	**g**, p, **f**	☒ ◪
51 *18e*	Du	VI-s	4W 15N	20-25	559	post-Z *cem.*	little axe				14	a a	[ ]	▭	**4.4**	**3.0**	**1.5**	1.47	2.0	27	52	amphibolite	**37**	**g**	⌫ ▦
52 *18f*	Du	VI-e	gr. VI-6	35-40	63	Zed *grave*	little axe				25	g g	[ ]	⇹	>*4.4* *4.8*	**3.1**	**1.4**	*1.55*	2.21	17	55	limestone	>19 *27*	**g**	☒ ▦
53 *18g*	Sz	EA	14E 1S	30-35	526	post-Z *settl.*	little axe				33	a a	[ ]	x	**5.7**	**3.4**	**1.3**	1.68	2.6	18	84	limestone	**24**	**g**, **f**	⌫ ▦
54 *19e*	Du	VI-b	1W 26N	0-10	152a	L .Neo *cem.*	claw adze				7	a a	[⊃	▭	**13.5**	**4.5**	**3.1**	3.0	1.45	33	75	gneiss *biotite*	>305 *310*	**g**, p, f	⌫
55 *19a*	Du	VI-a	gr. VI-1	35	82	Zed *grave*	claw adze				28	g g	[ ]	⇹	**11.7**	**4.4**	**2.3**	2.66	1.91	25	70	sandstone	>131 *160*	**g**, p, f	☒ ↖
56 *19c*	Sz	FA	21E 8S	30-35	299	Zed *shore*	claw adze				58	a g	[⊅	▭	**9.8**	>3.0 *3.3*	**3.1**	*3.0*	*1.06*	56	36	gneiss	>108 *130*	**g**, p, f	☒ ?
57 *19d*	Sz	AL	125E 132N	35-40	182	Zed *shore*	claw adze				60	g a	[ ]	⇹	**7.0**	**2.8**	**2.2**	2.5	1.27	36	31	gneiss	>78 *80*	**g**, **p**	⌫
58 *19b*	Sz	EO	26E 6/7S	75-80	525	e. Zed *littoral*	claw adze						[ ]	⇹	>5.2 *6.5*	**3.0**	**1.8**	*2.2*	1.67	*49*	*72*	quartzitic metasandst.	>36 *45*	**f**	◨ ↖
59 *20c*	Sz	FH	22E 13S	55-60	29	post-Z *littoral*	hump hammer				28	g g	[ ]	◎	**12.3**	**6.0**	**6.1**	2.05	0.98	20	45	diabase	**707**	**g**, p, f	⌫
60 *20a*	Sz	AE	124E 139N	35-40	302	Zed *shore*	hump hammer				35	g g	[ ]	◎	**7.1**	**4.6**	**3.0**	1.54	1.53	24	44	diabase	**153**	**g**, p	⌫
61 *20b*	Sz	AE	124E 139N	30-35	242	post-Z *shore*	hump hammer				39	g g	[ ]	◎	**6.9**	**4.8**	**3.3**	1.44	1.45	36	43	diabase	**157**	**g**, p	⌫
62 *21a*	Sz	EQ	27E 9S	100-105	1174	e. Zed *littoral*	axe-hammer				*30*	a g	[ ]	◎	>6.3 *6.8*	4.5	3.0	*1.5*	1.5	28	66	gabbro	>153 *180*	**g**, **p**	☒ ↖
63 *21c*	Sz	AA	118E 140N	30-35	216	L. Neo *settl.*	axe-hammer				*19*	a g	[ ]	▭	>8.4 *8.6*	**5.7**	**3.6**	*1.5*	1.58	*56*	*74*	diorite	>251 *260*	**g**, p, f	☒? ▦
64 *21b*	Sz	AL	126E 132N	30-35	132	Zed *shore*	axe-hammer				30	g a	⊂ >	▭	**5.5**	**4.5**	**2.9**	1.22	1.55	68	68	gabbro	>105 *110*	**g**, **p**	⌫
65 *21f*	Sz	FB	24E 10S	55-60	116	Zed *litoral*	axe-hammer				24	a g	[ ]	▭	**4.3**	**3.1**	**2.2**	1.39	1.41	70	80	granite	**33**	**g**, **p**	⌫
66 *21d*	Du	VI-t	1W 15N	0-15	1010	L. Neo *cem.*	axe-hammer				20	a a	[ ]	x	**5.3**	**4.5**	**2.9**	1.18	1.55	29	73	granite	**80**	**g**, **p**	⌫ ▦
67 *21e*	Sz	EQ	25E 9S	30-35	79	L. Neo *littoral*	axe-hammer				11	a a	[ ]	▭	**9.4**	**5.0**	**4.1**	1.88	1.22	62	82	granite	**303**	**g**, **p**	☒ ◪
68 *22b*	Du	VI-b	gr. VI-2	35	1	Zed *grave*	thick-butt. pickaxe				59	g g	[⊃	▭	**6.7**	**3.7**	**2.5**	1.81	1.48	74	48	sandstone	**82**	**g**, p	⌫
69 *22e*	Du	VI-v	3W 13N	15-20	167	L. Neo *cem.*	thick-butt. pickaxe						⊂]	▭	>5.5 *10.5*	**6.2**	**3.7**	*1.7*	1.7	*80*	*74*	granite	>173 *290*	**g**, p	◨ ?
70 *22a*	Sz	EV	22E 3N	35-40	491	Zed *settl.*	thick-butt. pickaxe						⊂⊃	▭	>6.5 *11.5*	**7.3**	**3.7**	*1.6*	1.97	84	84	pegmatite	>245 *410*	**g**, p	◨ ↖

tool No *Fig.*	site	tre-nch	me-ter, object	depth cm	find No	period *context*	taxon type kind	outline lying	sideway view, vertical	cross section	edge protr. EPI	edge sep. L R	side L R	butt	len-gth	wid-th	thick-ness	slen-der-ness	flat-ness	max width MWI	max thick MTI	rock kind, *type colour*	mass g	pro-ces-sing	state of preser-vation
71 *22d*	Sz	AK	121E 135N	25-30	13	Zed *settl.*	thick-butt. pickaxe				68	g g	⊅ <	▭	**8.6**	**5.5**	**3.1**	1.56	1.77	63	63	granite-gneiss	**155**	**p**	⌫ ▦
72 *22c*	Sz	FE	19E 11S	45-50	274	e. Zed *littoral*	thick-butt. pickaxe				85	g g	⊂⊃	◎	**3.7**	**2.2**	**1.3**	1.68	1.69	73	52	meta-siltstone	**12**	**g**, p, **f**	⌫
73 *22f*	Sz	FE	19E 10S	25-30	92	post-Z *shore*	dagger pickaxe				64	g g	< >	▭	**10.5**	**4.1**	**1.9**	2.56	2.16	76	76	gneiss	>88 *90*	**p**	⌫ ▦
74 *23a*	Sz	EP	30E 6S	100	318	e. Zed *littoral*	almond mattock				46	g g	⊂⊃	◎	**12.6**	**6.2**	**3.1**	2.03	2.0	63	37	gneiss *hornblende*	**394**	**p**, d	⌫
75 *23b*	Du	N peak	-	plough up	-	L. Neo *grave*	simple hatchet				8	a a	[ ]	▭	**10.0**	**5.3**	**5.3**	1.89	1.0	25	55	amphibolite	**437**	**g**, p, **d**	⌫

Table 2. The list and data of the stone head tools from Dudka (Du), Szczepanki (Sz) and Malinka (Ma).
Periods of certainly dated specimens, certain dimensions and weight are **bolded**; supposed data are in *italics*. The same proportions of particular specimen are greyish and inverse proportions of MWI and MTI indexes are underlined.

Abbreviations: edge protr. – edge protrusion (EPI index), edge sep. – edge separation from the L- left and R- right side: g- gentle, a- angular; side fashioned: [- flat, ⊂ - oval, ⊄ - faceted, < - edge.
Butt shape: ▭ - flat, ◎ - convex, ▬ - edge, x - pointed.
Processing technique: g - grinding, p - pecking, f - flaking, d - drilling; the main (visible) technique is marked by bolded letter.
State of preservation: ⌫ - entirely preserved, ⊠ - almost whole with destroyed or blunted edge, ◨ - back half, ◧ - front halft, ◁ - just edge, □ - fragment of trunk, ⧈ - butt or its fragment.
Turn to: ⊗ - pestle or hand-stone, ↯ - fire striker, ⧉ - reshaped, ↖ - purposely blunted or destroyed, ↕ - accidentally damaged, ? - cause of damage unclear, ▦ - corroded stone.