



Archaic Bevel Resharpener Project

Morphometric Data Analysis - 4 Trials

RS	Point Ratio					AVG	Percentage Point Width Reduction					AVG
	1	2	3	4	1		2	3	4			
U	0.387	0.497	0.439	0.419	0.436	NA	NA	NA	NA			
1	0.382	0.485	0.421	0.410	0.425	2	2	4	3	2.75		
2	0.376	0.476	0.416	0.394	0.416	5	5	7	7	6.00		
3	0.370	0.455	0.413	0.385	0.406	7	10	8	10	8.75		
4	0.361	0.448	0.396	0.363	0.392	9	11	12	15	11.75		
5	0.355	0.436	0.377	0.361	0.382	12	16	17	17	15.50		
6	0.343	0.410	0.374	0.341	0.367	16	20	19	22	19.25		
7	0.332	0.411	0.357	0.325	0.356	20	22	24	25	22.75		
8	0.324	0.383	0.342	0.309	0.340	22	29	28	29	27.00		
9	0.310	0.375	0.322	0.294	0.325	27	31	32	33	30.75		
10	0.298	0.358	0.311	0.278	0.311	31	36	35	37	34.75		
11	0.283	0.308	0.280	0.263	0.284	35	46	42	42	41.25		
12	0.270	0.303	0.273	0.244	0.273	38	47	43	46	43.50		
13	0.245	0.275	0.240	0.228	0.247	44	53	50	50	49.25		
14	0.224	0.243	0.222	0.215	0.226	50	59	54	53	54.00		
15	0.194	0.229	0.201	0.192	0.204	57	61	58	58	58.50		
16	0.184	0.186	0.181	0.167	0.180	59	69	62	64	63.50		
17	0.158	0.174	0.168	0.142	0.161	65	71	65	69	67.50		
18	0.133	0.159	0.128		0.140	71	73	74		72.67		

KEY
 RS= Resharpener Series
 U = Unused Lithic Knife



 Point of Terminal Utility as Lithic Knife Form
 Lithic Drill Form

Archaic Bevel Resharpener Project

Morphometric Data Analysis

RS	Percentage Point Length Reduction					AVG	Blade Curvature (mm)					AVG
	1	2	3	4			1	2	3	4		
U	NA	NA	NA	NA			10.00	10.00	9.00	6.50		8.88
1	1	0	0	1	0.50		9.50	9.50	8.50	6.00		8.38
2	2	1	2	1	1.50		8.50	9.00	8.00	5.50		7.75
3	3	1	2	2	2.00		8.00	7.50	7.50	5.00		7.00
4	3	1	3	2	2.25		7.50	7.00	7.00	4.50		6.50
5	4	2	3	3	3.00		7.00	6.50	6.50	4.00		6.00
6	5	4	5	3	4.25		6.50	6.00	6.00	3.50		5.50
7	6	5	6	3	5.00		6.50	5.50	6.00	3.00		5.25
8	8	8	7	4	6.75		6.50	4.50	5.00	2.00		4.50
9	9	9	7	5	7.50		5.50	4.50	4.50	0.50		3.75
10	11	11	8	6	9.00		5.50	4.00	3.50	0.00		3.25
11	11	13	8	7	9.75		4.50	2.00	3.00	-1.00		2.13
12	12	13	8	7	10.00		4.25	-1.00	1.50	-2.00		0.69
13	12	15	8	8	10.75		1.50	-2.50	-0.50	-3.00		-1.13
14	13	16	9	8	11.50		1.00	-4.50	-2.00	-3.50		-2.25
15	14	16	9	9	12.00		-1.00	-6.00	-3.00	-4.50		-3.63
16	14	16	9	9	12.00		-1.50	-6.50	-4.00	-4.50		-4.13
17	14	17	9	10	12.50		-4.00	-7.00	-5.00	-5.00		-5.25
18	15	17	9		13.67		-6.00	-7.00	-6.00			-6.33

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RS	Shoulder Angle (degrees)				AVG	Blade Torsion (mm)				AVG
	1	2	3	4		1	2	3	4	
U	52.50	51.00	45.00		49.50	NA	NA	NA	NA	
1	52.00	50.00	45.00		49.00	0.00	0.00	0.00	0.50	0.125
2	51.50	49.50	44.50		48.50	0.00	0.00	0.50	1.00	0.375
3	50.00	49.50	44.50		48.00	0.50	0.50	1.00	1.50	0.875
4	50.00	49.00	44.50		47.83	1.00	1.00	1.50	2.00	1.375
5	49.00	48.50	45.50		47.67	1.00	1.50	2.00	2.00	1.625
6	49.00	48.00	44.00		47.00	1.50	2.00	2.00	2.50	2.000
7	49.00	48.00	44.00		47.00	2.50	2.50	2.50	2.50	2.500
8	48.50	50.00	44.00		47.50	2.50	3.00	3.00	2.50	2.750
9	48.25	49.00	44.00		47.08	3.00	3.00	3.00	2.50	2.875
10	48.25	48.50	43.50		46.75	3.50	3.50	3.00	2.50	3.125
11	47.50	48.00	43.00		46.17	3.50	3.50	3.00	2.50	3.125
12	47.50	47.50	43.00		46.00	4.00	3.50	3.00	2.50	3.250
13	47.50	47.25	43.00		45.92	4.00	3.50	3.00	2.50	3.250
14	47.00	47.00	43.00		45.67	4.50	3.50	3.00	3.00	3.500
15	46.75	47.00	43.00		45.58	5.50	3.50	3.00	3.00	3.750
16	46.50	47.00	43.00		45.50	5.50	3.50	3.00	3.00	3.750
17	46.25	46.75	43.00		45.33	5.75	3.50	3.00	2.50	3.688
18	46.25	46.75	43.00		45.33	3.50	3.00	2.50		3.000

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Morphometric Data Analysis

RS	Blade Torsion Angle (degrees)				AVG
	1	2	3	4	
U		19.0	15.0	16.0	16.67
1		18.0	15.0	16.0	16.33
2		18.0	21.0	20.0	19.67
3		20.0	21.5	35.0	25.50
4		23.5	23.5	40.0	29.00
5		23.5	27.0	42.0	30.83
6		23.5	32.0	44.0	33.17
7		28.0	33.0	44.0	35.00
8		29.0	33.0	44.0	35.33
9		35.0	40.0	44.0	39.67
10		40.0	40.0	45.0	41.67
11		45.0	42.5	47.0	44.83
12		50.0	47.0	47.0	48.00
13		58.0	51.0	50.0	53.00
14		65.0	54.0	56.0	58.33
15		70.0	54.0	57.0	60.33
16		75.0	60.0	60.0	65.00
17		80.0	62.0	61.0	67.67
18		75.0	59.0		67.00

	Knife Form	Material	Knapper
Trial 1	Dovetail	Burlington	D. Long
Trial 2	Dovetail	Onondaga	J. Fisher
Trial 3	Dovetail	Florence A	D. Long
Trial 4	Thebes (E-Notch)	Flint Ridge	D. Long

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