

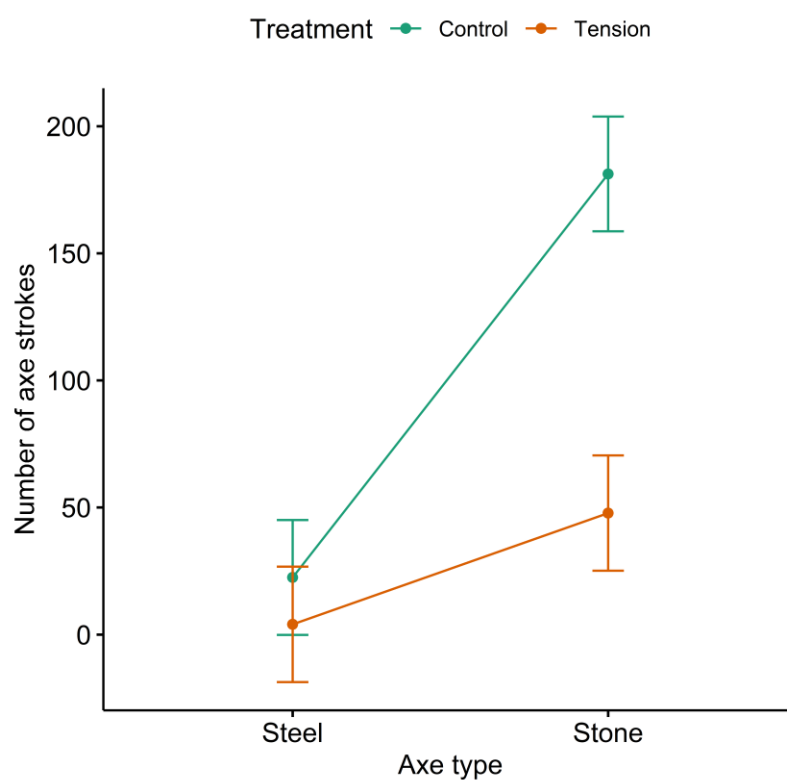
# SUPPLEMENTARY MATERIALS

Table S1. Raw data from the “Tree Felling with Stones Axes” paper. Treatments were as follows: A = Stone axe with pre-tensioned stem; B = Stone axe without stem tensioning; C = Steel axe with pre-tensioned stem; and, D = Steel axe without stem tensioning. Experience with chopping is on a 1-5 scale with 1 designating little or no axe experience.

	DBH (cm)	Treatment	Seconds	Strokes	Experience	Sex	Chopper
1	4	D	5	5	4	0	1
3	4.6	A	33	27	4	0	1
9	5	B	254	229	4	0	1
8	5.4	C	1	1	4	0	1
6	3.6	D	9	10	2	0	2
5	3.4	B	254	112	2	0	2
7	4.4	C	2	1	2	0	2
4	4.4	A	38	51	2	0	2
2	4.2	D	2	1	5	0	3
10	5.3	C	1	1	5	0	3
11	3.6	A	23	55	5	0	3
12	4.6	B	77	107	5	0	3
13	3.7	B	149	140	1	0	4
14	3.8	D	3	4	1	0	4
15	3.7	C	1	1	1	0	4
16	3.5	A	43	61	1	0	4
17	4	D	28	24	3	1	5
18	4	B	158	180	3	1	5
23	3.8	A	29.56	50	3	1	5
24	4.3	C	8.5	14	3	1	5
19	4.1	A	54.72	102	2	0	6
21	4.3	C	2.72	3	2	0	6
20	4.5	D	10.41	15	2	0	6
22	4.3	B	131.81	166	2	0	6
27	3.3	A	29.56	50	1	0	7
25	4.3	B	281.25	515	1	0	7
26	3.8	C	4.56	5	1	0	7
28	3.9	D	7.97	4	1	0	7
29	3.7	B	140.25	134	4	1	8
30	4	C	2	2	4	1	8
31	4.3	A	25.04	43	4	1	8
32	3.6	D	2.1	2	4	1	8
33	4.7	B	251.59	220	2	1	9
34	4.7	A	232	150	2	1	9
35	4.7	C	3.28	4	2	1	9

36	4.7	D	14.35	18	2	1	9
37	4.7	D	34.91	27	5	1	10
38	4.3	B	293.78	250	5	1	10
39	4	A	49	40	5	1	10
40	4.3	C	1	1	5	1	10
41	4.3	D	94	56	1	1	11
42	3.7	A	77	53	1	1	11
43	4.1	C	26.13	20	1	1	11
44	4.5	B	310	189	1	1	11
45	3.7	D	55	31	1	1	12
46	3.4	B	150	138	1	1	12
47	5	C	4	2	1	1	12
48	5.4	A	10	6	1	1	12
49	4.4	D	100	32	1	0	13
50	3	C	60	30	1	0	13
51	4.5	B	520	159	1	0	13
52	3.1	A	140	65	1	0	13
53	4.9	C	7	4	5	0	14
54	4.6	B	89	192	5	0	14
55	4.5	A	22	33	5	0	14
56	4.8	D	27	26	5	0	14
57	3.7	A	28	31	2	1	15
58	3.1	B	200	197	2	1	15
59	4	C	15	6	2	1	15
60	3.5	D	85	72	2	1	15
61	4	A	24	22	5	0	16
62	5	B	295	250	5	0	16
63	4.5	C	4	2	5	0	16
64	4	D	14	8	5	0	16
65	3.2	B	99	97	4	0	17
66	3.5	A	10	11	4	0	17
67	3.8	C	4	5	4	0	17
68	3.2	D	20	24	4	0	17
69	4.4	D	30	32	5	0	18
70	3.7	B	118	121	5	0	18
71	3.3	C	7	3	5	0	18
72	3.6	A	33	33	5	0	18
73	3.4	A	29	16	5	0	19
74	3.2	B	47	38	5	0	19
75	3.1	C	3	2	5	0	19
76	3.1	D	17	18	5	0	19
77	3.4	A	16	19	1	1	20
78	3.5	B	228	190	1	1	20
79	3.3	C	37	17	1	1	20

80	4.1	D	67	36	1	1	20
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**Figure S1.** Predicted number of axe strokes required to fell a 5 cm *Q. hemisphaerica* tree by axe type with and without the pre-tensioning by bending treatment. Mean and standard error values (N = 20 for each treatment) shown after controlling for other model covariates.