

Table 73. Analysis Data for Complete and Nearly Complete Axes and Mauls, Sand Canyon Pueblo: Material Type, Size, Shape, and Condition

Artifact Type	PD	FS	Material Type	Length (cm)	Width (cm)	Thickness (cm)	Weight (g)	Bit Length (cm)	Groove Width (cm)	Bit-to-Groove Distance (cm)	Poll-to-Groove Distance (cm)	Condition	Groove Type	Groove Location	Cross Section
Single-bitted axe	24	211	chert/siltstone	7.1	5.3	3.0	157.4	3.8	2.9	3.6	0.6	complete	notches	closer to poll	lozenge
Single-bitted axe	28	12	Morrison quartzite	12.2	6.0	3.4	321.6	3.4	3.0	6.7	2.5	complete	notches	closer to poll	subrectangular
Single-bitted axe	29	11	Morrison quartzite	12.5	7.2	4.8	553.0	5.6	3.6	6.2	2.7	complete	full	closer to poll	subrectangular
Single-bitted axe	34	15	Morrison quartzite	16.7	7.2	6.6	1,086.2	3.5	4.5	8.0	4.2	complete	full	closer to poll	circular
Single-bitted axe	34	16	Morrison quartzite	16.1	7.0	6.3	967.3	4.4	3.8	8.7	3.6	complete	full	closer to poll	other
Single-bitted axe	34	17	Morrison quartzite	13.4	7.3	5.5	721.2	3.6	3.2	7.3	2.9	complete	full	closer to poll	subrectangular
Single-bitted axe	41	29	Morrison quartzite	18.7	8.4	6.2	1,244.1	5.3	5.3	9.7	3.7	complete	full	closer to poll	other
Single-bitted axe	41	55	Morrison quartzite	13.1	6.6	4.6	489.3	5.3	2.9	6.3	2.9	complete	full	closer to poll	oval
Single-bitted axe	50	11	Morrison quartzite	10.7	5.5	3.0	220.1	4.0	2.8	4.2	3.7	complete	notches	closer to poll	lozenge
Single-bitted axe	50	16	Morrison quartzite	12.6	6.9	4.0	453.8	3.2	3.8	5.7	3.1	complete	full	closer to poll	subrectangular
Single-bitted axe	50	17	Morrison quartzite	11.6	6.4	5.7	519.7	5.5	3.9	4.2	3.5	nearly complete	full	closer to poll	subrectangular
Single-bitted axe	50	60	Morrison quartzite	20.5	10.0	6.9	2,081.4	6.4	4.3	11.2	5.0	complete	full	closer to poll	oval
Single-bitted axe	50	61	Morrison quartzite	10.2	6.5	3.0	257.7	4.5	3.3	4.7	2.2	complete	notches	closer to poll	oval
Single-bitted axe	106	3	Morrison quartzite	10.7	5.8	5.1	344.6		2.6	6.0	2.1	nearly complete	full	closer to poll	unknown
Single-bitted axe	134	19	Morrison quartzite	19.2	8.8	7.2	1,570.7	3.4	4.0	10.5	4.7	complete	full	closer to poll	oval
Single-bitted axe	134	28	Morrison quartzite	11.4	6.5	3.8	296.2	3.2	3.8	5.5	2.1	complete	notches	closer to poll	subrectangular
Single-bitted axe	134	29	Morrison quartzite	11.0	6.5	4.3	429.1	4.3	2.5	5.5	3.0	complete	full	closer to poll	oval
Single-bitted axe	134	39	Morrison quartzite	19.0	9.6	8.8	2,071.5	4.2	4.6	10.0	4.4	complete	full	closer to poll	oval
Single-bitted axe	165	24	Morrison quartzite	16.6	7.6	6.8	1,201.0		5.9	7.0	3.7	nearly complete	full	closer to poll	rectangular
Single-bitted axe	184	1	Morrison quartzite	13.5	7.6	5.1	671.4		4.2	6.1	3.2	nearly complete	full	closer to poll	subrectangular
Single-bitted axe	201	13	Morrison quartzite	19.0	9.3	7.4	1,606.6	4.3	5.4	9.0	4.6	complete	full	closer to poll	oval
Single-bitted axe	201	14	Morrison quartzite	11.9	6.8	4.8	510.6	4.8	3.6	5.5	2.8	complete	full	closer to poll	subrectangular
Single-bitted axe	201	23	Morrison quartzite	12.1	7.1	5.2	661.7		3.8	4.1	4.2	nearly complete	full	closer to bit	oval
Single-bitted axe	207	4	Morrison quartzite	10.8	5.9	5.5	465.7	3.9	3.6	4.5	2.7	complete	full	closer to poll	oval
Single-bitted axe	213	2	Morrison quartzite	14.4	8.2	3.4	639.4		3.7	6.0	4.7	nearly complete	notches	closer to poll	subrectangular
Single-bitted axe	215	32	Morrison quartzite	13.4	7.6	4.6	682.4	3.3	3.1	7.2	3.1	complete	full	closer to poll	other
Single-bitted axe	215	51	Morrison quartzite	15.6	8.9	6.9	1,154.3		3.8	7.1	4.7	nearly complete	full	closer to poll	oval
Single-bitted axe	246	14	Morrison quartzite	20.8	8.5	6.7	1,709.0	5.9	4.6	10.6	5.6	complete	full	closer to poll	circular
Single-bitted axe	269	25	Morrison quartzite	10.7	6.6	4.3	444.0	3.6	3.8	5.0	1.9	complete	full	closer to poll	oval
Single-bitted axe	269	26	Morrison quartzite	11.9	6.9	4.4	442.3	4.9	4.1	5.5	2.3	nearly complete	full	closer to poll	oval
Single-bitted axe	269	27	Morrison quartzite	15.6	7.3	4.7	786.6	5.1	4.4	8.1	3.1	complete	full	closer to poll	subrectangular

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Artifact Type	PD	FS	Material Type	Length (cm)	Width (cm)	Thickness (cm)	Weight (g)	Bit Length (cm)	Groove Width (cm)	Bit-to-Groove Distance (cm)	Poll-to-Groove Distance (cm)	Condition	Groove Type	Groove Location	Cross Section
Single-bitted axe	269	28	Morrison quartzite	18.0	8.6	5.6	1,328.0	6.3	4.0	8.8	5.2	complete	full	closer to poll	subrectangular
Single-bitted axe	269	29	Morrison quartzite	18.4	8.0	6.5	1,334.6	4.2	4.5	10.1	3.8	complete	full	closer to poll	oval
Single-bitted axe	269	30	Morrison quartzite	20.3	9.4	6.9	1,780.6	4.9	5.0	10.2	5.1	complete	full	closer to poll	oval
Single-bitted axe	269	31	Morrison quartzite	19.0	8.0	7.0	1,554.1	5.2	4.5	9.5	5.0	complete	full	closer to poll	subrectangular
Single-bitted axe	269	32	Morrison quartzite	14.0	7.3	4.6	633.6	4.3	3.4	7.4	3.2	complete	full	closer to poll	oval
Single-bitted axe	269	45	Morrison quartzite	19.4	8.8	7.2	1,541.0	4.4	3.5	10.1	5.9	complete	full	closer to poll	oval
Single-bitted axe	269	46	Morrison quartzite	21.9	10.7	6.6	2,100.3	5.7	4.3	10.6	7.0	complete	notches	closer to poll	subrectangular
Single-bitted axe	289	1	Morrison quartzite	11.7	5.7	3.7	337.2	4.1	4.3	5.6	1.8	complete	full	closer to poll	rectangular
Single-bitted axe	289	2	Morrison quartzite	19.4	9.7	6.9	1,704.9	3.6	3.8	10.1	5.5	complete	full	closer to poll	other
Single-bitted axe	289	3	Morrison quartzite	14.9	8.7	7.7	1,215.0	4.8	4.1	8.3	2.5	complete	full	closer to poll	oval
Single-bitted axe	344	14	Morrison quartzite	14.1	9.2	6.1	1,013.5	5.3	5.0	6.3	2.8	complete	full	closer to poll	oval
Single-bitted axe	387	22	Morrison quartzite	16.2	8.0	7.4	1,338.4	5.5	4.8	8.6	2.8	complete	full	closer to poll	subrectangular
Single-bitted axe	387	23	Morrison quartzite	17.2	8.7	6.1	1,350.6	4.8	4.2	8.2	4.8	complete	full	closer to poll	subrectangular
Single-bitted axe	388	72	Morrison quartzite	15.3	7.9	5.1	738.8		3.8	7.5	4.0	nearly complete	full	closer to poll	oval
Single-bitted axe	388	238	Morrison quartzite	13.4	6.0	3.1	330.9	3.6	4.5	5.0	3.9	complete	notches	closer to poll	other
Single-bitted axe	410	8	Morrison quartzite	10.0	5.3	4.2	318.6	3.1	3.0	4.5	2.5	complete	full	closer to poll	oval
Single-bitted axe	530	61	Morrison quartzite	13.6	7.8	5.4	749.0	4.7	3.1	6.9	3.6	complete	full	closer to poll	subrectangular
Single-bitted axe	530	67	Morrison quartzite	9.7	6.4	3.5	291.5	3.5	2.6	4.9	2.2	complete	other	closer to poll	other
Single-bitted axe	550	1	Morrison quartzite	13.5	7.2	5.4	660.3	3.8	4.0	6.6	2.9	complete	full	closer to poll	oval
Single-bitted axe	584	23	Morrison quartzite	15.2	7.4	3.5	451.2	4.0	3.8	7.8	3.6	complete	notches	closer to poll	other
Single-bitted axe	587	22	Morrison quartzite	11.1	8.5	4.0	406.9	5.5	2.5	5.2	3.4	complete	notches	closer to poll	lozenge
Single-bitted axe	628	25	Morrison quartzite	11.9	6.3	4.3	405.3	4.4	2.8	5.4	3.7	complete	full	closer to poll	oval
Single-bitted axe	628	31	Morrison quartzite	15.7	7.0	5.6	805.3	4.6	4.0	8.7	3.0	complete	full	closer to poll	other
Single-bitted axe	628	34	Morrison quartzite	13.4	6.6	4.6	517.1	3.9	3.3	6.8	3.3	complete	full	closer to poll	oval
Single-bitted axe	698	1	Morrison quartzite	19.3	7.1	5.7	1,250.3	4.7	3.8	10.6	4.9	complete	full	closer to poll	rectangular
Single-bitted axe	698	3	Morrison quartzite	16.6	8.1	6.3	1,085.6	4.1	5.5	7.9	3.2	complete	full	closer to poll	oval
Single-bitted axe	698	4	Morrison quartzite	13.6	6.4	4.6	582.6	4.1	3.1	6.8	3.7	complete	full	closer to poll	subrectangular
Single-bitted axe	799	1	Morrison quartzite	10.4	6.6	3.6	330.4	4.5	2.1	5.2	2.1	complete	full	closer to poll	lozenge
Single-bitted axe	860	43	slate/shale	11.4	6.9	3.2	349.0	4.7	2.5	5.3	3.6	complete	notches	closer to poll	lozenge
Single-bitted axe	860	60	Morrison quartzite	18.9	7.5	4.3	879.2	4.1	3.8	10.0	5.1	complete	notches	closer to poll	subrectangular
Single-bitted axe	1206	31	Morrison quartzite	11.6	6.3	4.6	402.0	3.2	2.7	6.2	2.7	complete	full	closer to poll	oval
Single-bitted axe	1397	8	sandstone	10.6	7.3	2.4	185.2		3.1	7.3	0.2	complete	notches	closer to poll	other
Single-bitted axe	1397	9	sandstone	7.7	5.4	2.4	126.0	4.1	2.3	4.7	0.7	complete	notches	closer to poll	subrectangular
Single-bitted axe	1428	18	Morrison chert/siltstone	10.2	7.0	3.9	374.2	5.6	2.6	4.4	3.2	complete	full	closer to poll	subrectangular
Single-bitted axe	1440	5	Morrison quartzite	13.6	6.6	6.0	165.8	4.5	4.2	6.0	3.4	complete	full	closer to poll	other
Single-bitted axe	1448	11	Morrison chert/siltstone	13.7	6.9	5.6	720.5	5.0	2.9	6.9	3.9	complete	full	closer to poll	oval

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Single-bitted axe	1478	14	Morrison chert/siltstone	10.5	5.6	4.6	304.2	3.8	3.2	5.8	1.5	complete	full	closer to poll	oval
Single-bitted axe	1600	4	Morrison chert/siltstone	13.6	8.2	5.6	786.1	5.7	3.1	7.1	3.4	complete	full	closer to poll	subrectangular
Double-bitted axe	215	50	Morrison quartzite	12.5	6.2	3.6	370.8	3.9	4.9	3.7		complete	full	off center	oval
Axe/maul	1159	43	Morrison quartzite	7.2	5.6	4.4	239.0		2.9	2.0	2.3	complete	full	closer to poll	triangular
Axe/maul	1507	25	Morrison chert/siltstone	17.3	8.7	7.3	1,466.5		4.5	6.6	6.2	complete	full	closer to poll	circular
Maul	0	2	quartz	9.0	6.0	4.5	344.4		2.6	2.6	3.8	complete	full	off center	subrectangular
Maul	24	8	igneous	12.1	8.5	4.3	842.3		2.0	5.2	4.9	complete	full	center	subrectangular
Maul	79	11	igneous	8.9	6.6	4.3	362.2		2.8	2.9	3.2	complete	full	center	oval
Maul	184	62	Morrison quartzite	12.9	7.8	5.3	832.9		3.3	4.6	5.0	complete	full	center	subrectangular
Maul	219	5	Dakota quartzite	12.8	6.7	4.1	488.4		3.2	4.8	4.8	complete	full	center	oval
Maul	219	9	Morrison quartzite	9.6	4.9	4.6	288.3		3.2	3.9	2.5	complete	full	off center	other
Maul	230	1	Morrison quartzite	9.3	8.0	6.3	533.9		3.3	3.3	2.7	complete	full	off center	other
Maul	306	1	igneous	8.4	6.1	4.6	388.9		2.5	3.4	2.5	complete	full	off center	oval
Maul	306	2	Morrison quartzite	11.4	5.2	5.9	484.6		1.6	4.7	5.1	complete	other	center	circular
Maul	357	10	Morrison quartzite	11.3	6.6	5.9	568.5		3.1	5.9	2.3	complete	other	off center	other
Maul	472	4	Morrison quartzite	12.4	6.7	2.7	338.8		2.5	5.9	4.0	complete	notches	off center	subrectangular
Maul	528	122	Morrison quartzite	7.7	5.8	4.9	279.9		2.2	3.5	2.0	complete	notches	off center	subrectangular
Maul	534	2	Dakota quartzite	10.7	6.9	5.2	499.8		3.0	4.0	3.7	complete	notches	center	other
Maul	661	17	Morrison quartzite	15.7	8.6	6.2	953.0		2.7	4.2	8.8	complete	other	off center	other
Maul	797	36	Morrison quartzite	12.9	6.7	4.3	477.6		3.3	5.1	4.5	complete	notches	center	triangular
Maul	815	3	Morrison quartzite	8.5	6.0	3.6	251.9		2.8	2.8	2.9	complete	full	center	subrectangular
Maul	1023	7	Morrison quartzite	10.6	6.7	5.9	510.0		2.8	3.7	4.1	complete	full	center	oval
Maul	1082	8	Morrison quartzite	9.8	7.2	4.5	421.1		4.0	2.6	3.2	complete	full	center	subrectangular
Maul	1190	43	Morrison chert/siltstone	8.7	6.3	5.6	451.0		2.4	4.3	2.0	complete	full	off center	rectangular
Maul	1669	3	Morrison quartzite	8.4	6.2	4.9	423.1		3.2	3.0	2.2	complete	full	center	subrectangular

PD = Provenience Designation; FS = Field Specimen.

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