

Figure Headings
Chapter VII, Pueblo

<u>Figure No.</u>	<u>Heading</u>	<u>Page</u>
VII-1	Seriation of 47 Pueblo site; Multidimensional Scaling; Dimensions 1 and 2 (73 % of trace); 14 decorated types	--
VII-2	Farthest Neighbor Cluster Analysis of Dimensions 1 and 2 of VII-1	--
VII-3	R-Mode Analysis of 14 decorated types; Farthest Neighbor of Spearman Distances	--
VII-4	R-Mode Analysis of 14 decorated types; Non-Metric Multidimensional Scaling; Spearman Distances; Two dimensional solutions; 10.6% Kruskal Stress	--
VII-5	R-Mode Analysis of 14 decorated types; Metric Multidimensional Scaling; Spearman Distances; Dimensions 1 and 2; 71 % of trace	--
VII-6	Q-Mode Analysis of 22 Pueblo sites using 7 Kayenta pottery types. Metric Multidimensional Scaling; Dimensions 1 and 2; 65 % of trace	--
VII-7	Q-Mode Analysis of 42 Pueblo sites using 6 Mesa Verde pottery types. Metric Multidimensional Scaling; Dimensions 1 and 2; 91 % of trace	--
VII-8	Quadrat Red House Phase Ceramic Assemblages	--
VII-9	Canyon Red House Phase Ceramic Assemblages	--
VII-10	Comparison of Corrugated Pottery between Quadrat Red House and Canyon Red House Sites	--
VII-11	Changes in Corrugated Pottery through time	--
VII-12	Q-Mode Metric Multidimensional Scaling of Original 47 sites plus Drainage Canyon sites using 14 Decorated types. Dimensions 1 and 2; 79 % of trace	--
VII-13	Distributions of total lithic tools on Pueblo sites	--
VII-14	Comparison of Basketmaker II, III and Pueblo Lithic tool distributions	--

II

VII-15	Comparison of Basketmaker II, III and Pueblo Lithic Debitage distributions	--
VII-16	Farthest Neighbor R-Mode Cluster Analysis of Pueblo sites Dendrogram; Spearman Distance	--
VII-17	Ward's R-Mode Cluster Analysis of Pueblo site Dendrogram; Spearman distance	--
VII-18	Multidimensional Scaling R-Mode Analysis of Pueblo sites; Spearman Distance; Dimensions 1 and 2; 56 % of the total pairwise distance	--
VII-19	Farthest Neighbor Q-Mode Analysis of Pueblo Sites Dendrogram	--
VII-20	Artifact Summary of Farthest Neighbor Q-Mode Cluster Analysis	--
VII-21	Multidimensional Scaling Q-Mode Analysis of Pueblo sites; Dimensions 1 and 2; 67 % of total pairwise distance	--
VII-22	Final R-Mode Farthest Neighbor Cluster Analysis Dendrogram; Spearman distance	--
VII-23	Final R-Mode Ward's Cluster Analysis Dendrogram; Spearman distance	--
VII-24	Final R-Mode Multidimensional Scaling; Dimensions 1 and 2; 61 % of total pairwise distance; Spearman distance	--
VII-25	Final R-Mode Multidimensional Scaling; Dimensions 3 and 4; 20 % of total pairwise distance; Spearman distance	--
VII-26	Multidimensional Scaling Q-Mode Analysis of Pueblo sites; Dimensions 3 and 4; 15 % of total pairwise distance	--
VII-27	Final Tabulation of 16 Lithic types on Small and Large Pueblo Sites	--
VII-28	Final Tabulation of Lithic Debitage Classes on Large and Small Pueblo Sites	--

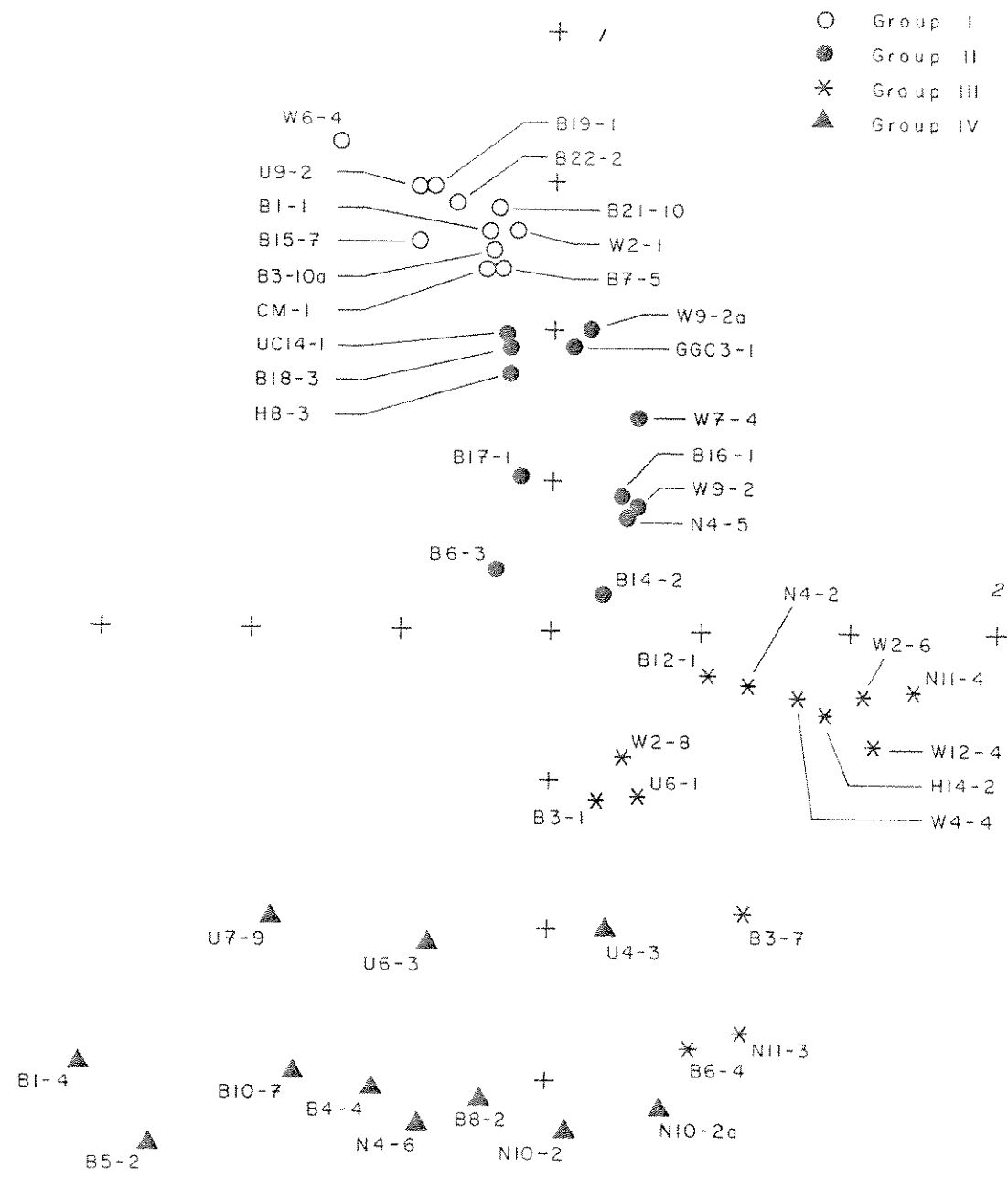
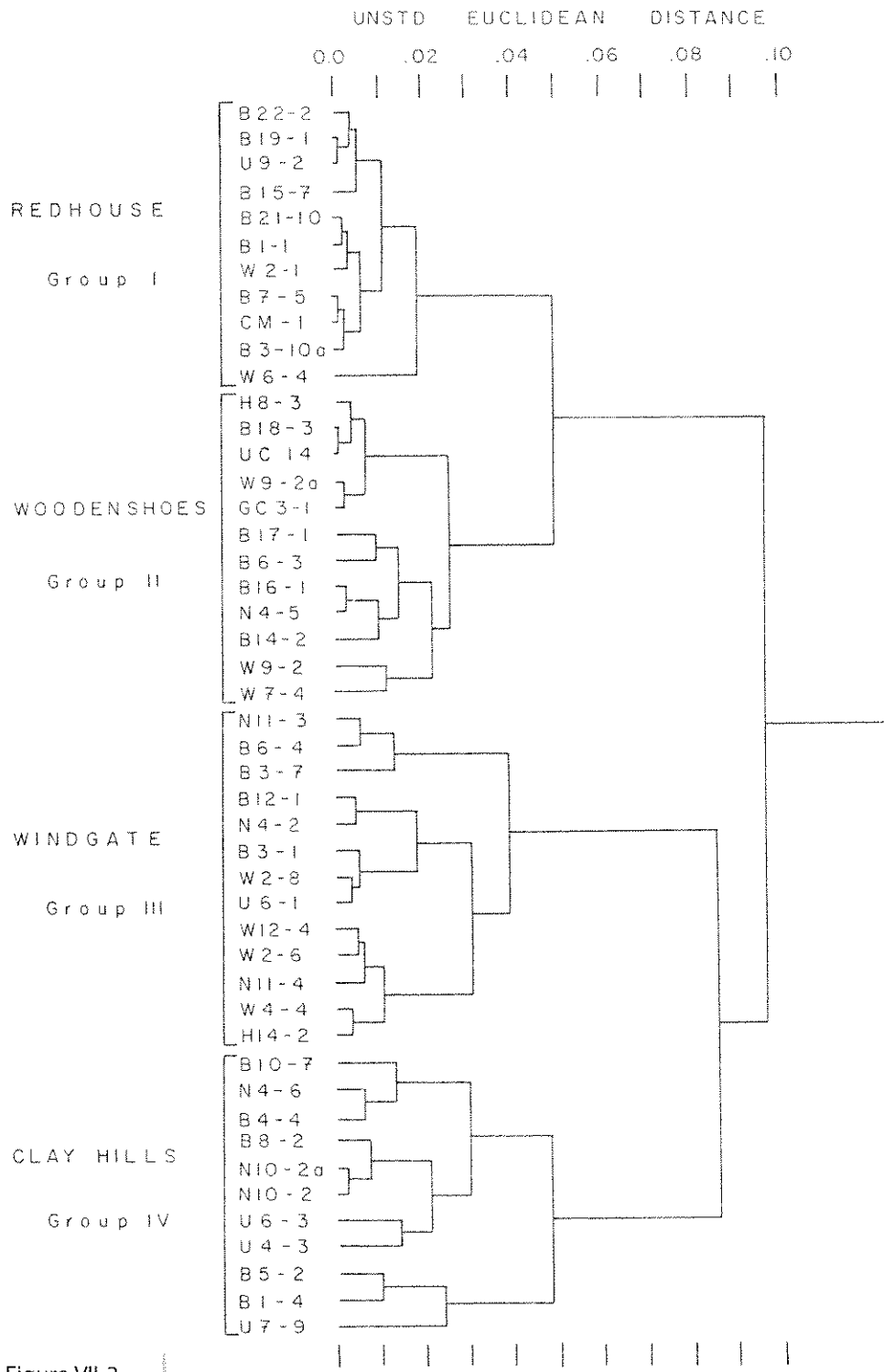


Figure VII-1



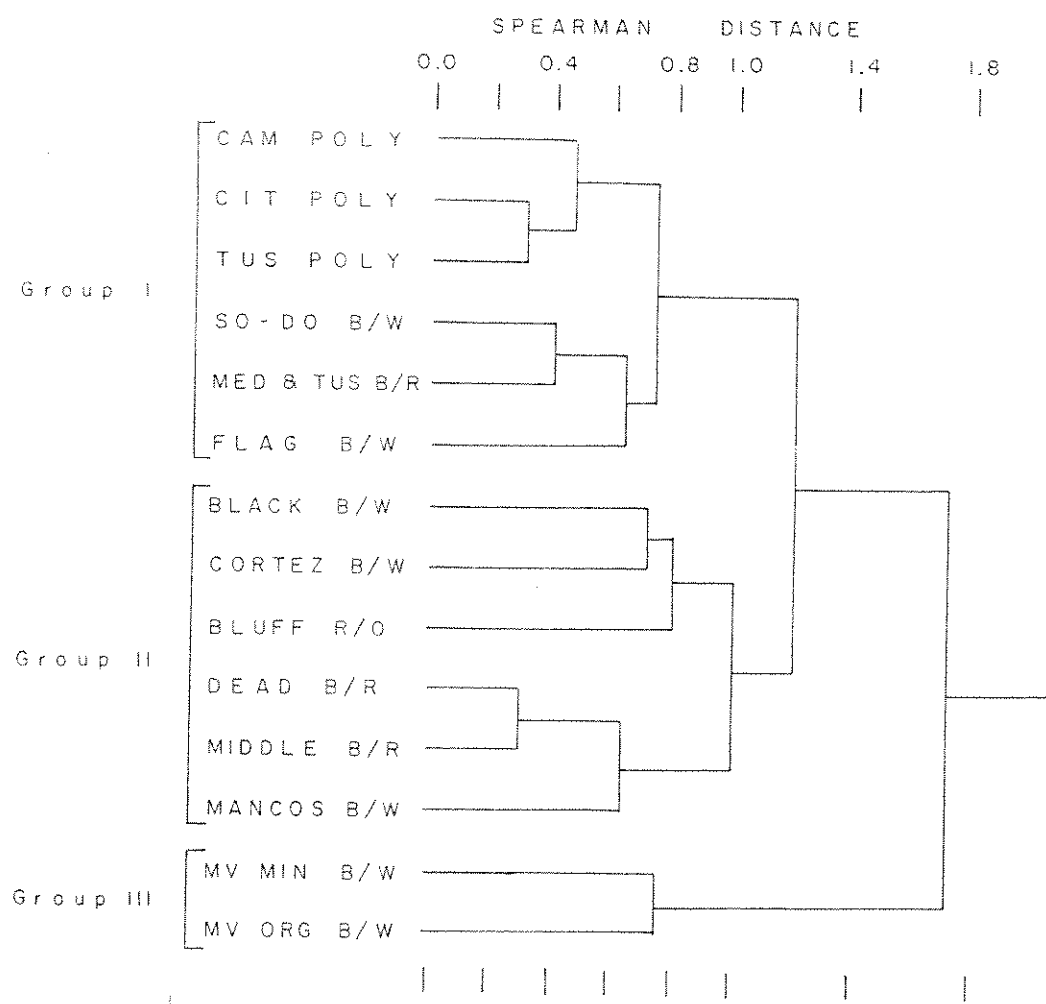


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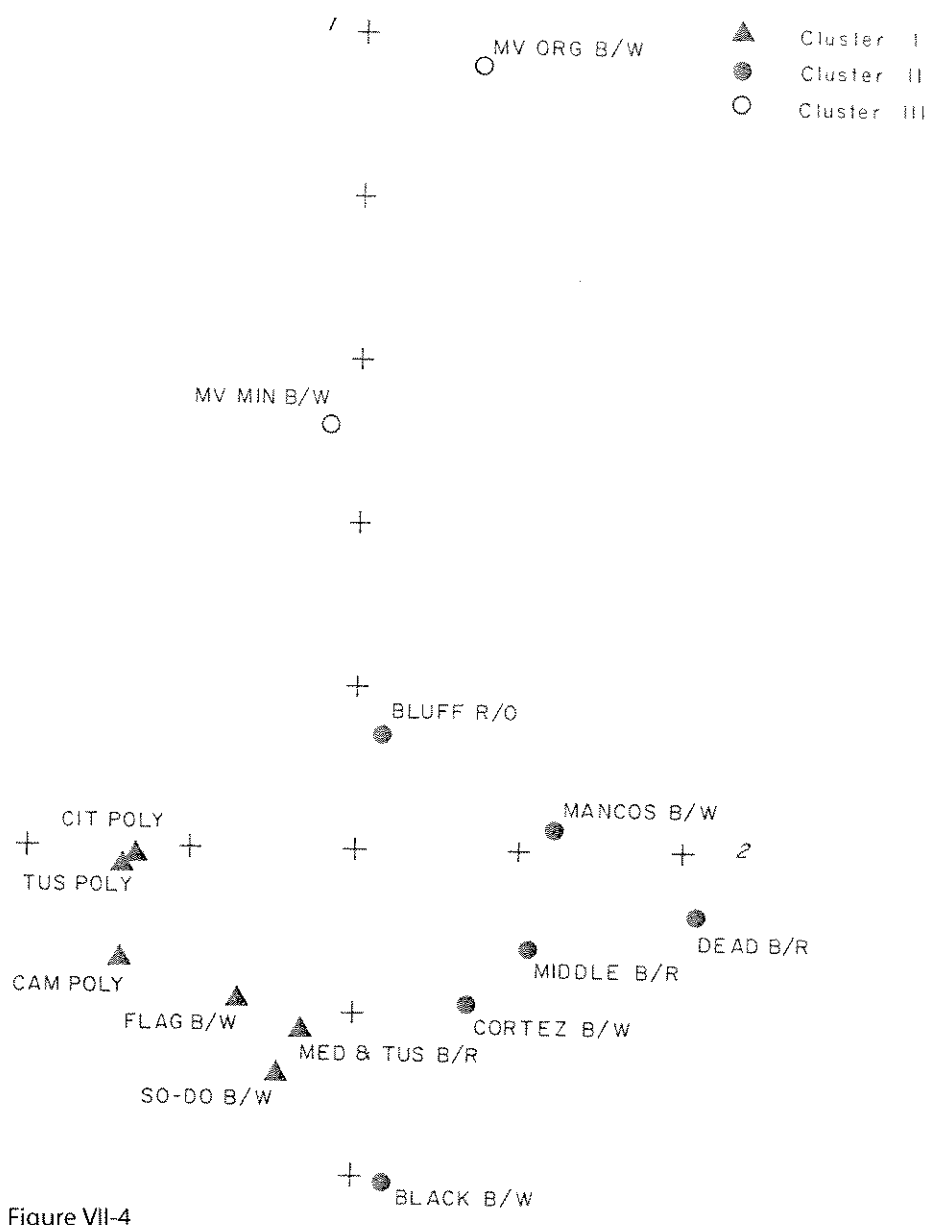


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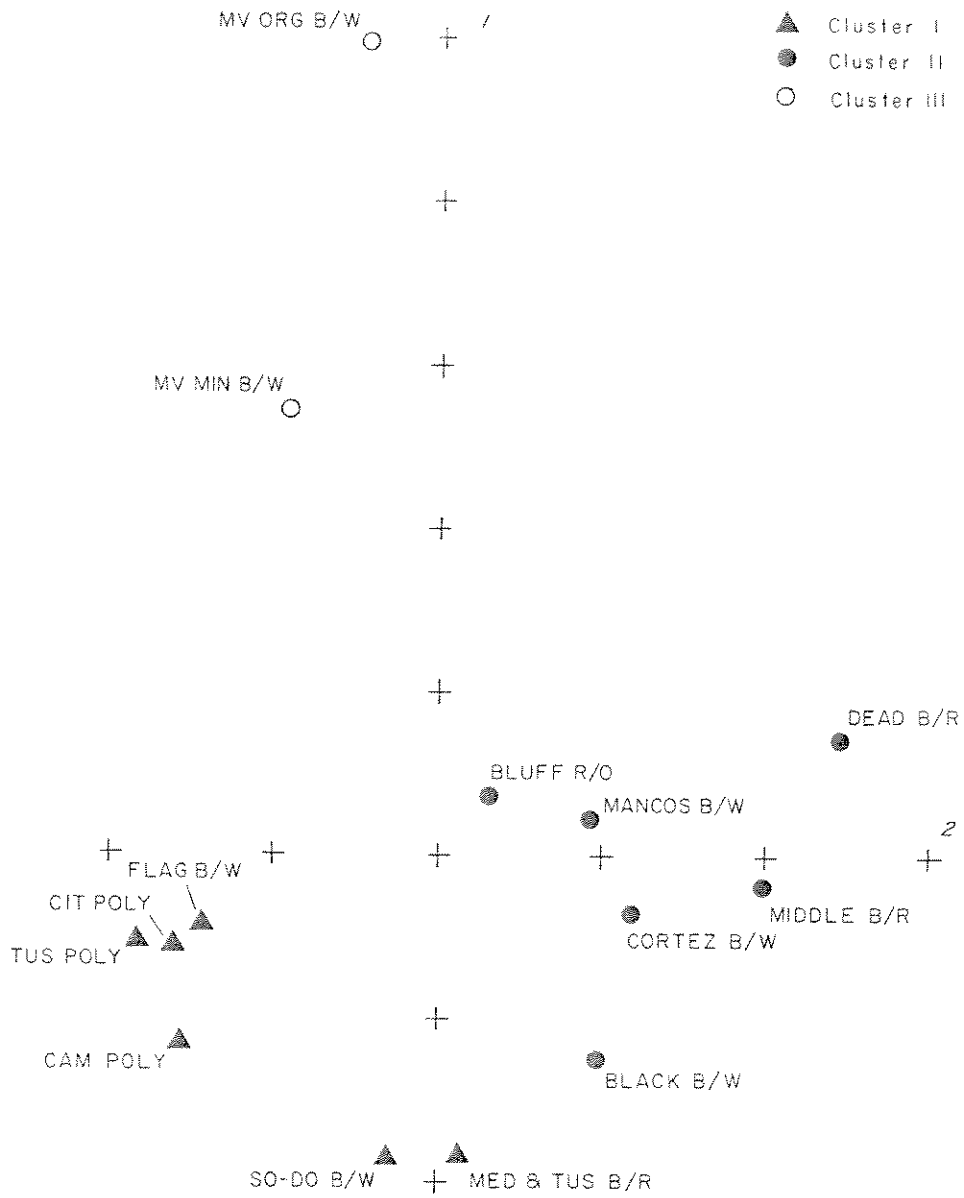
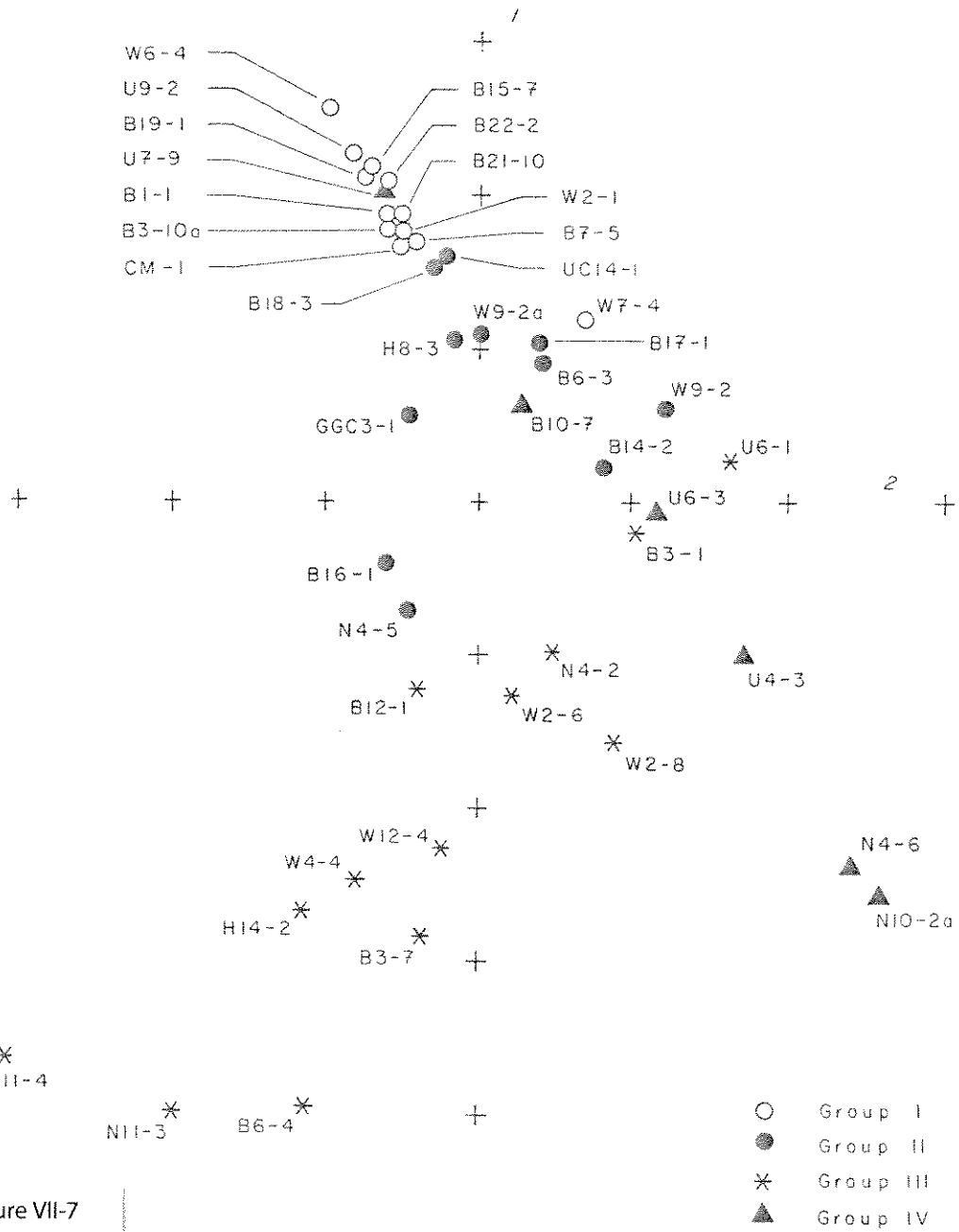


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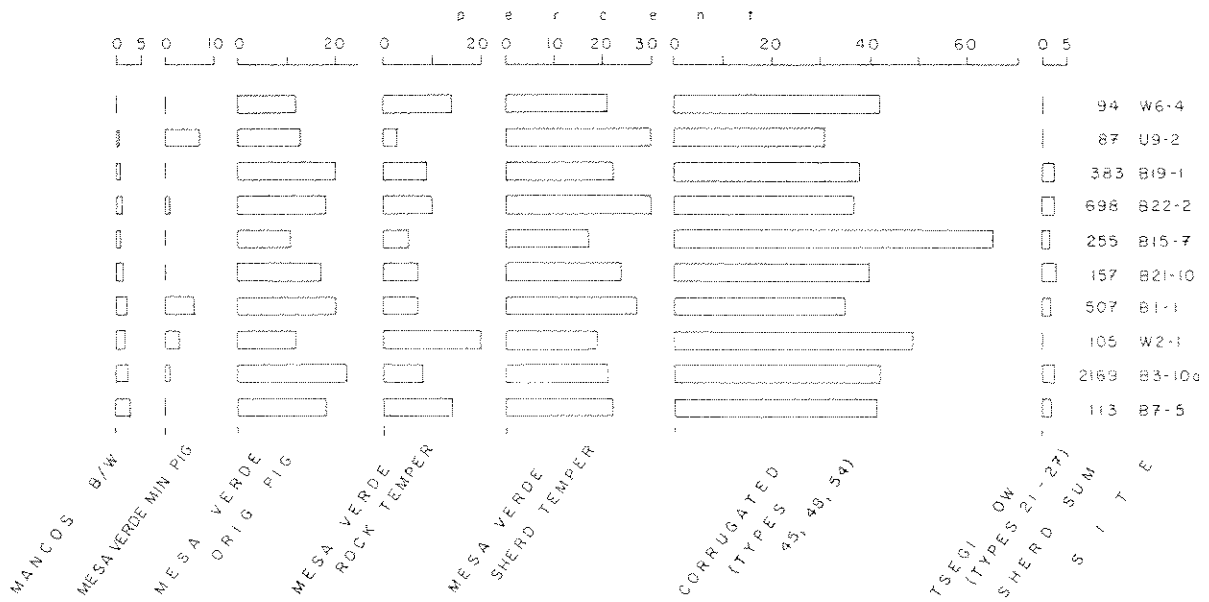


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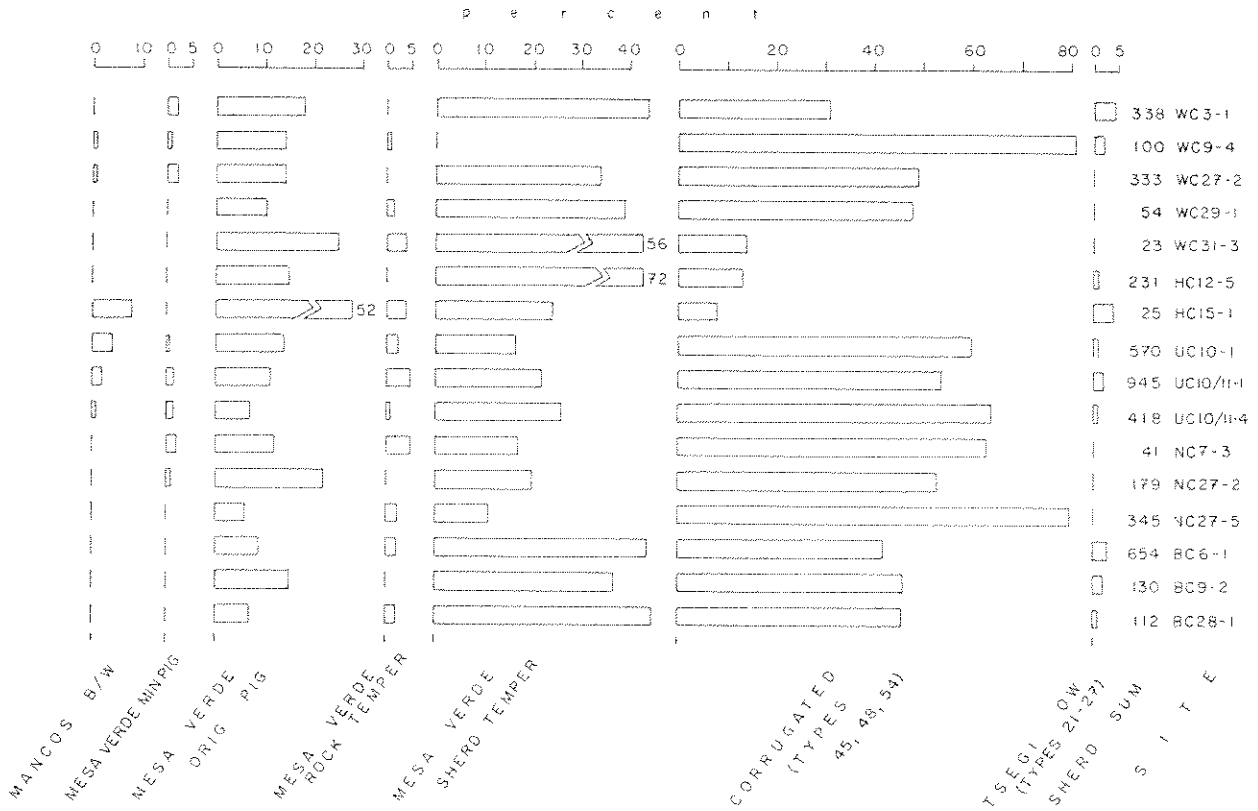


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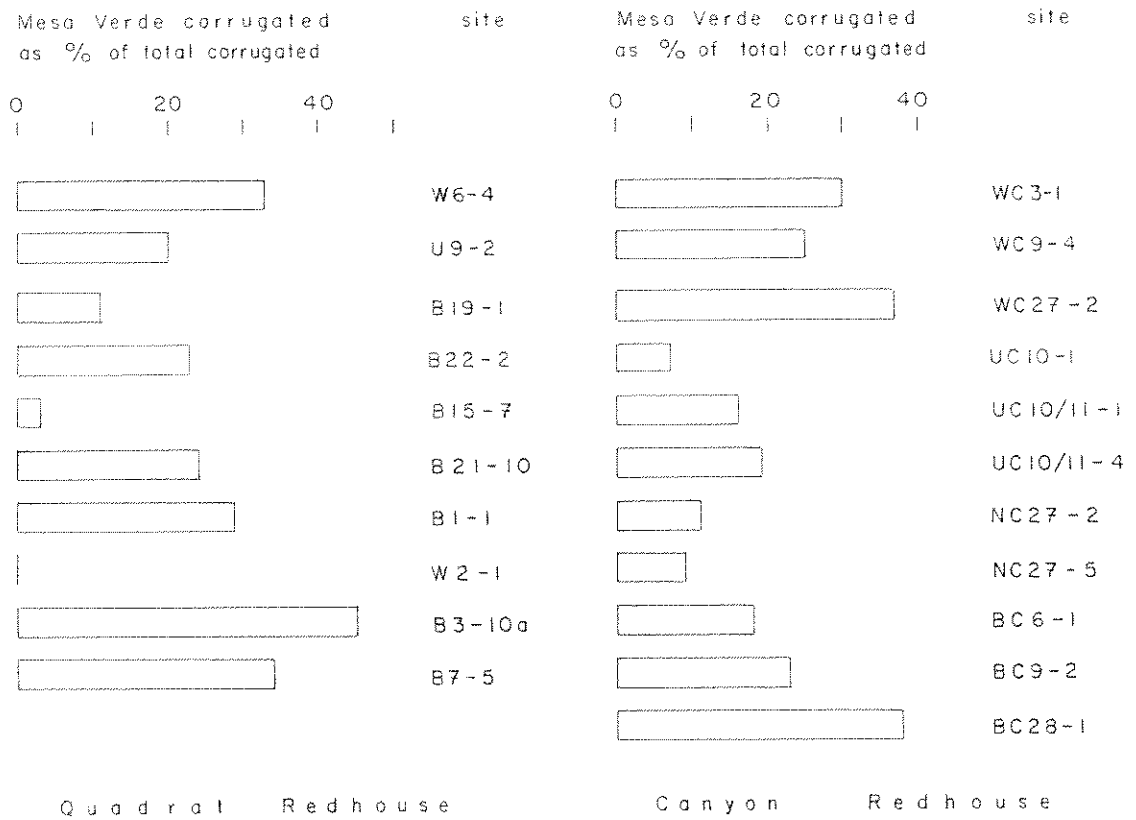


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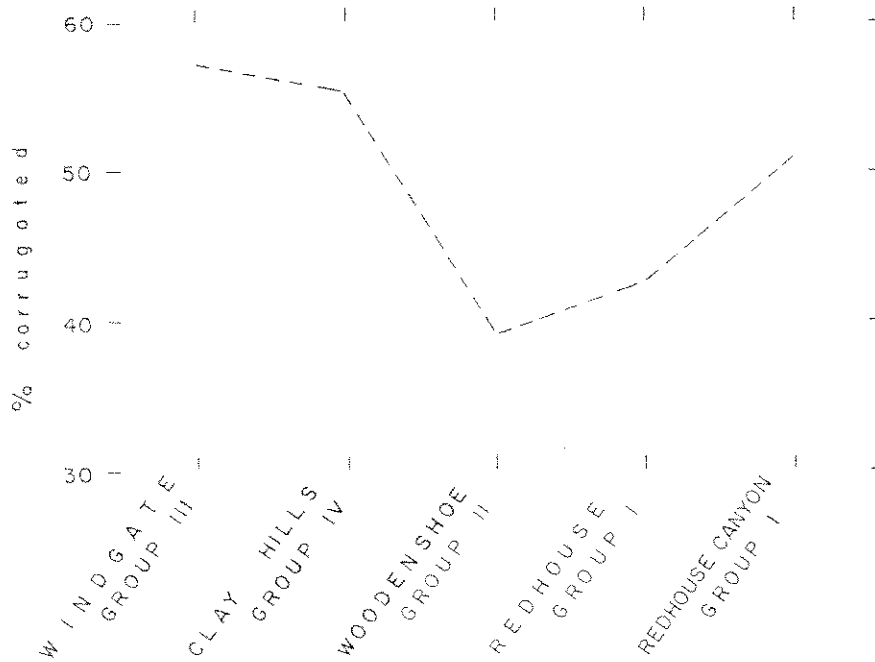


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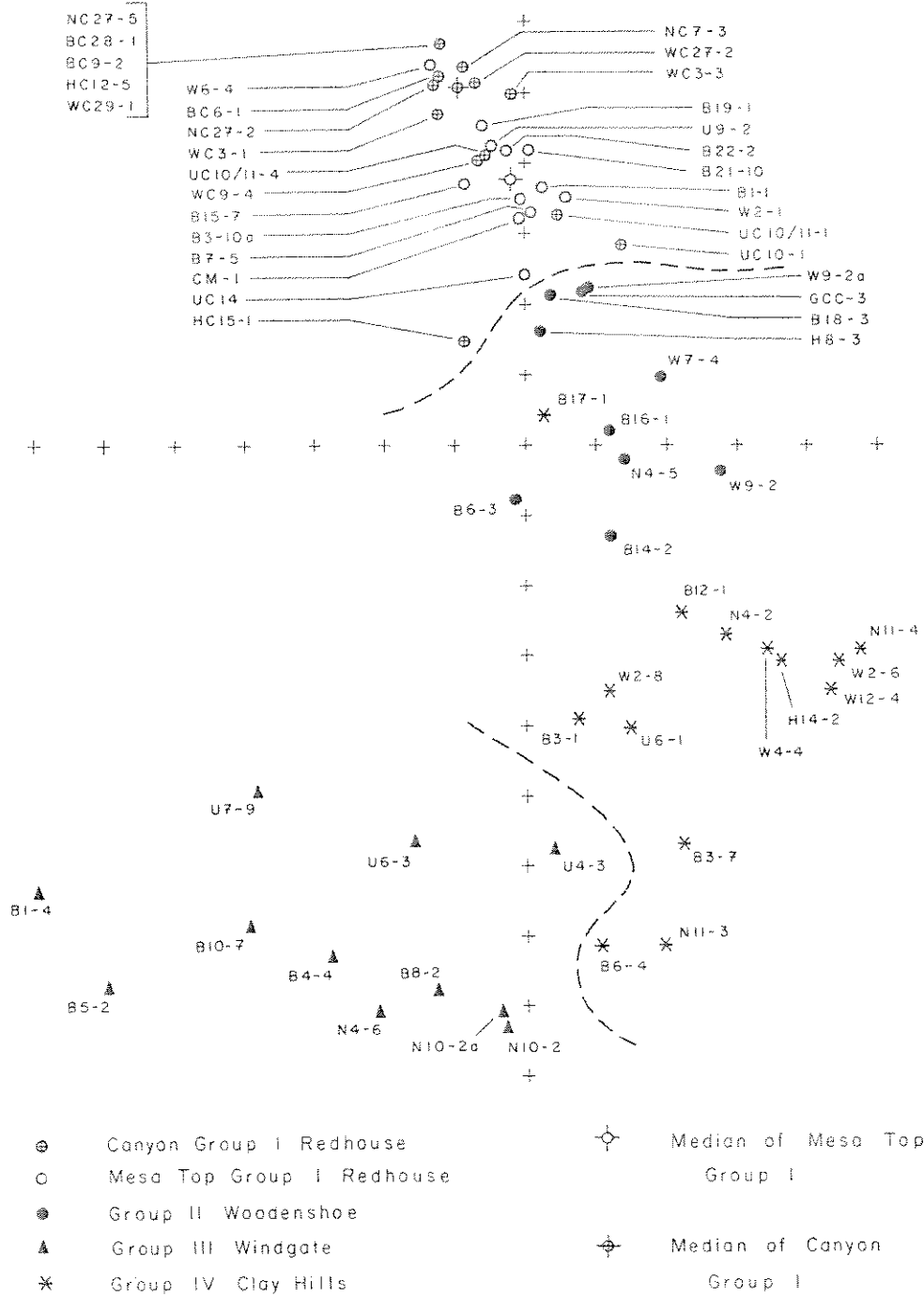


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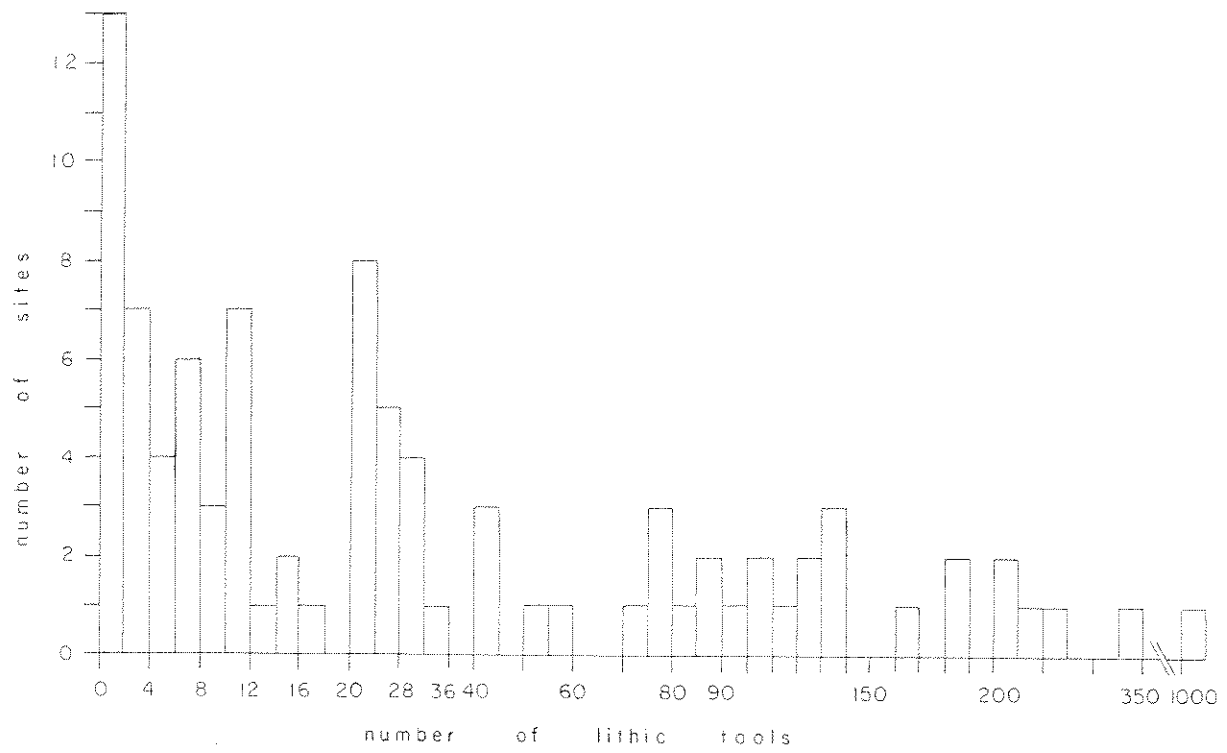


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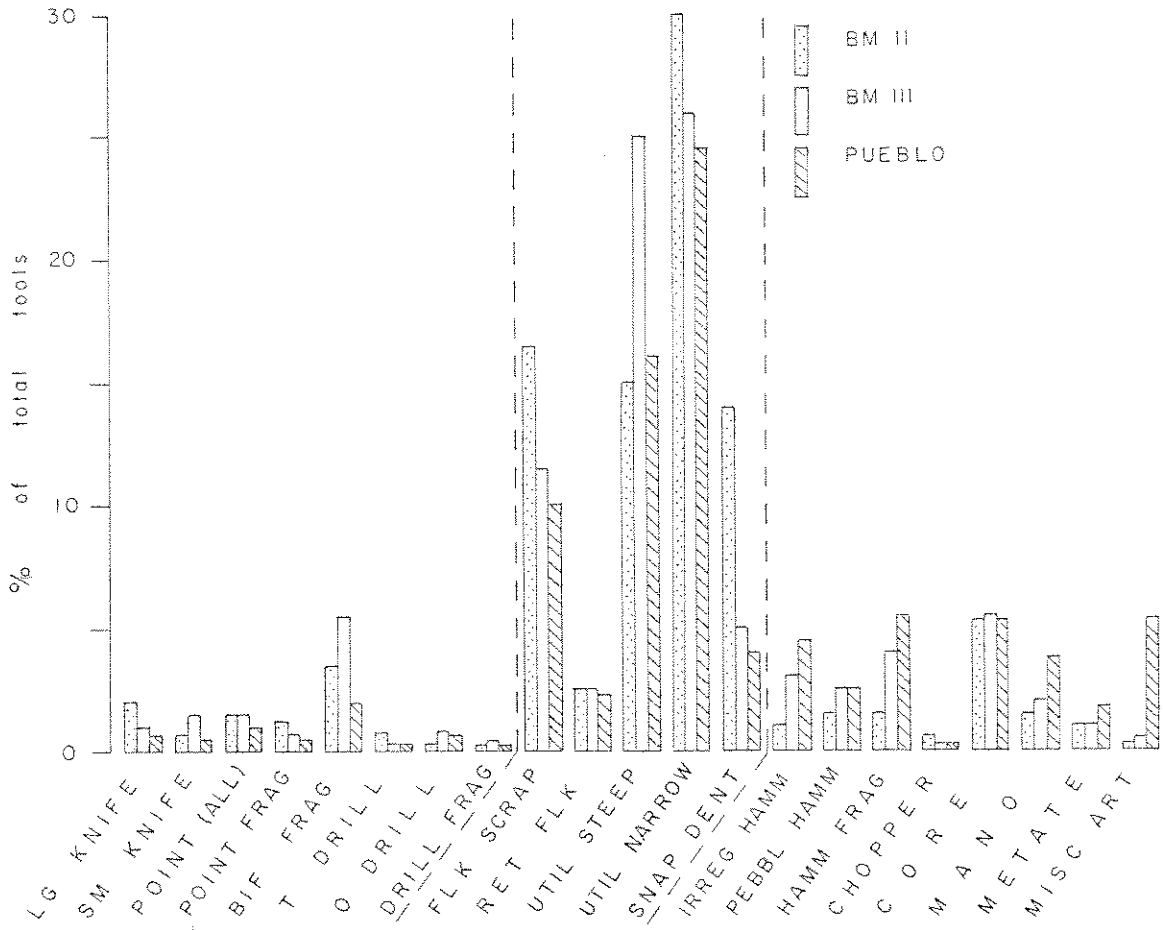


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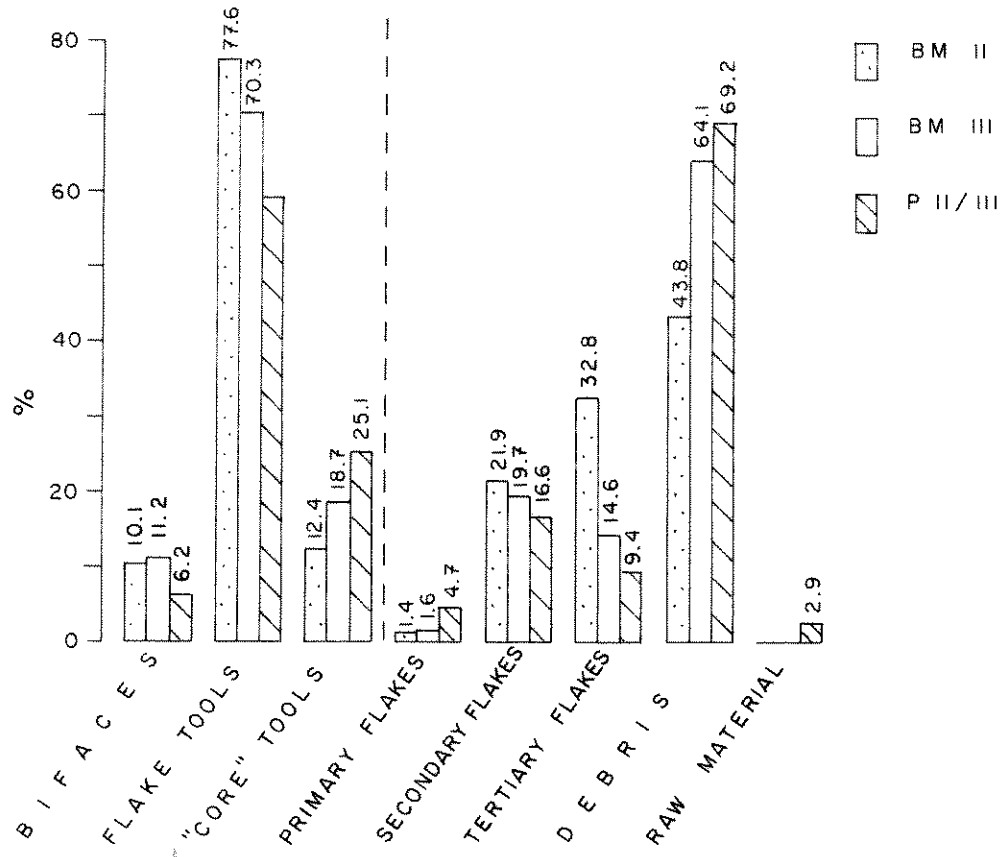


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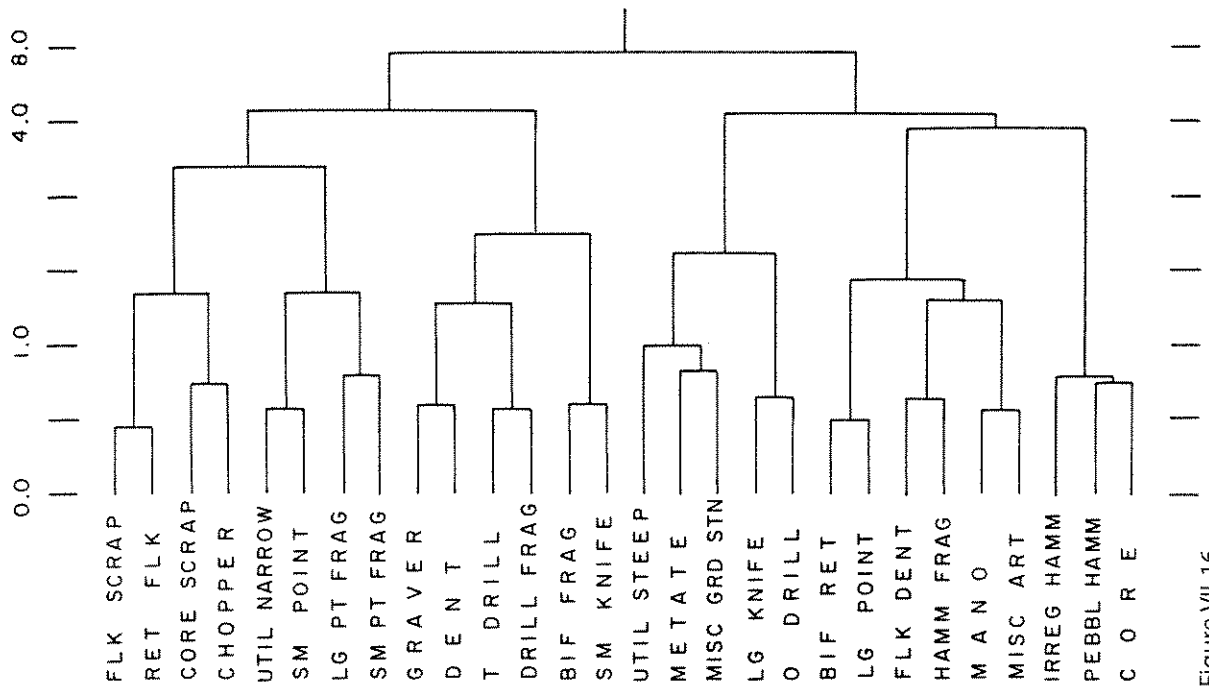


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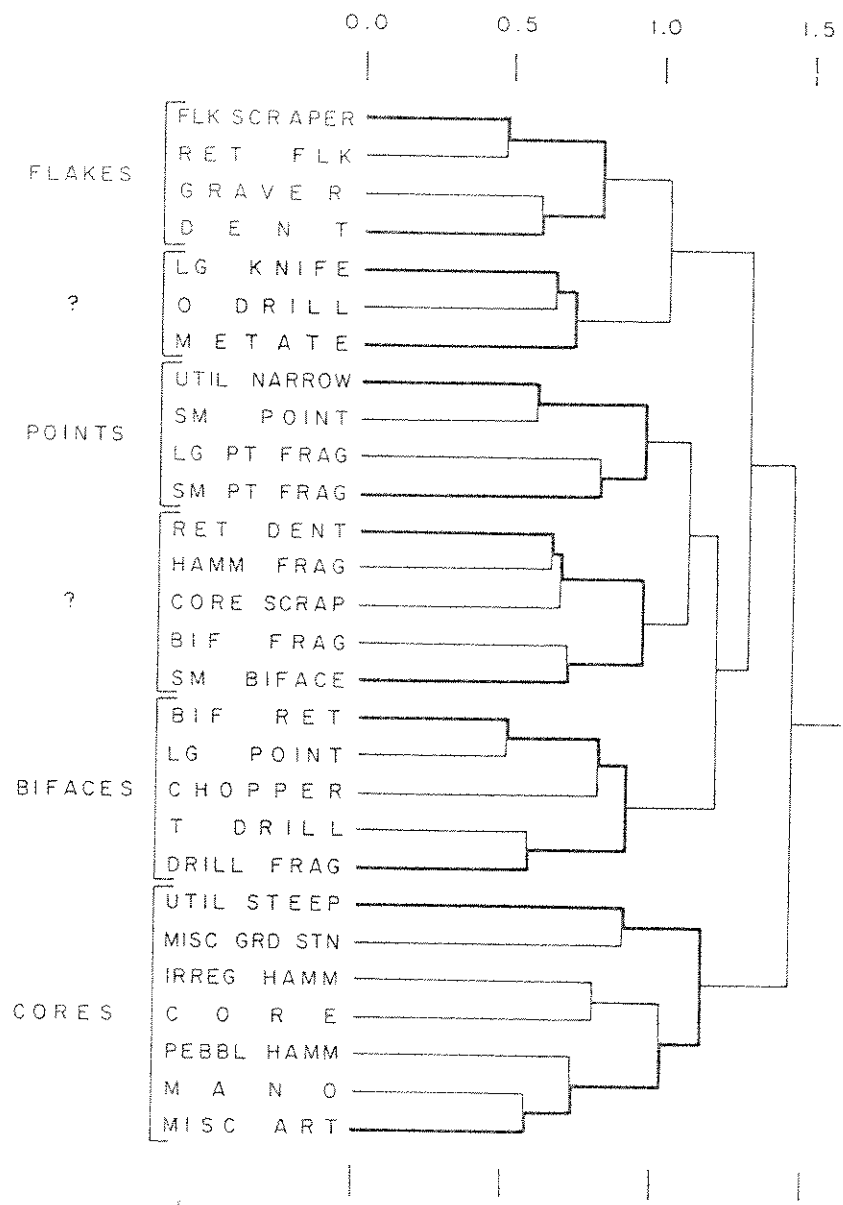


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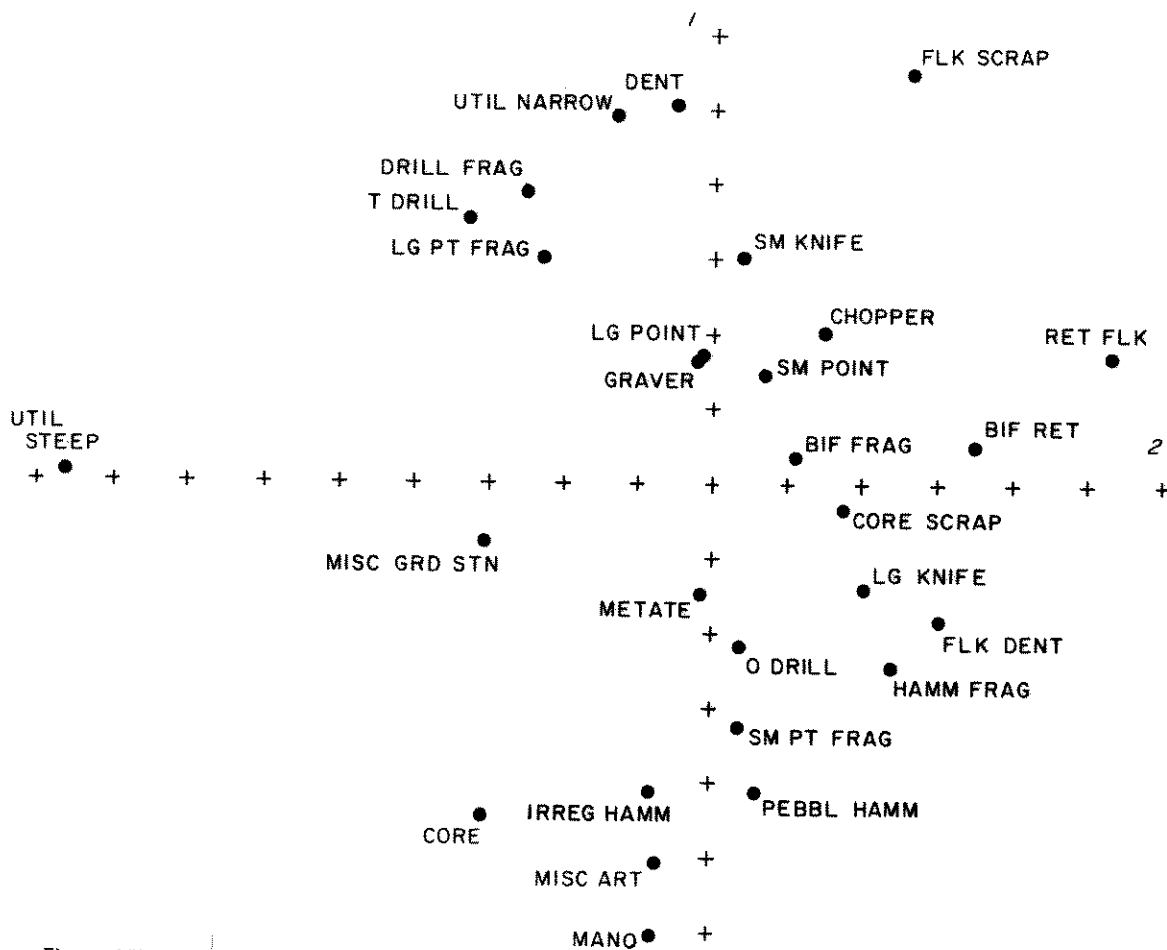


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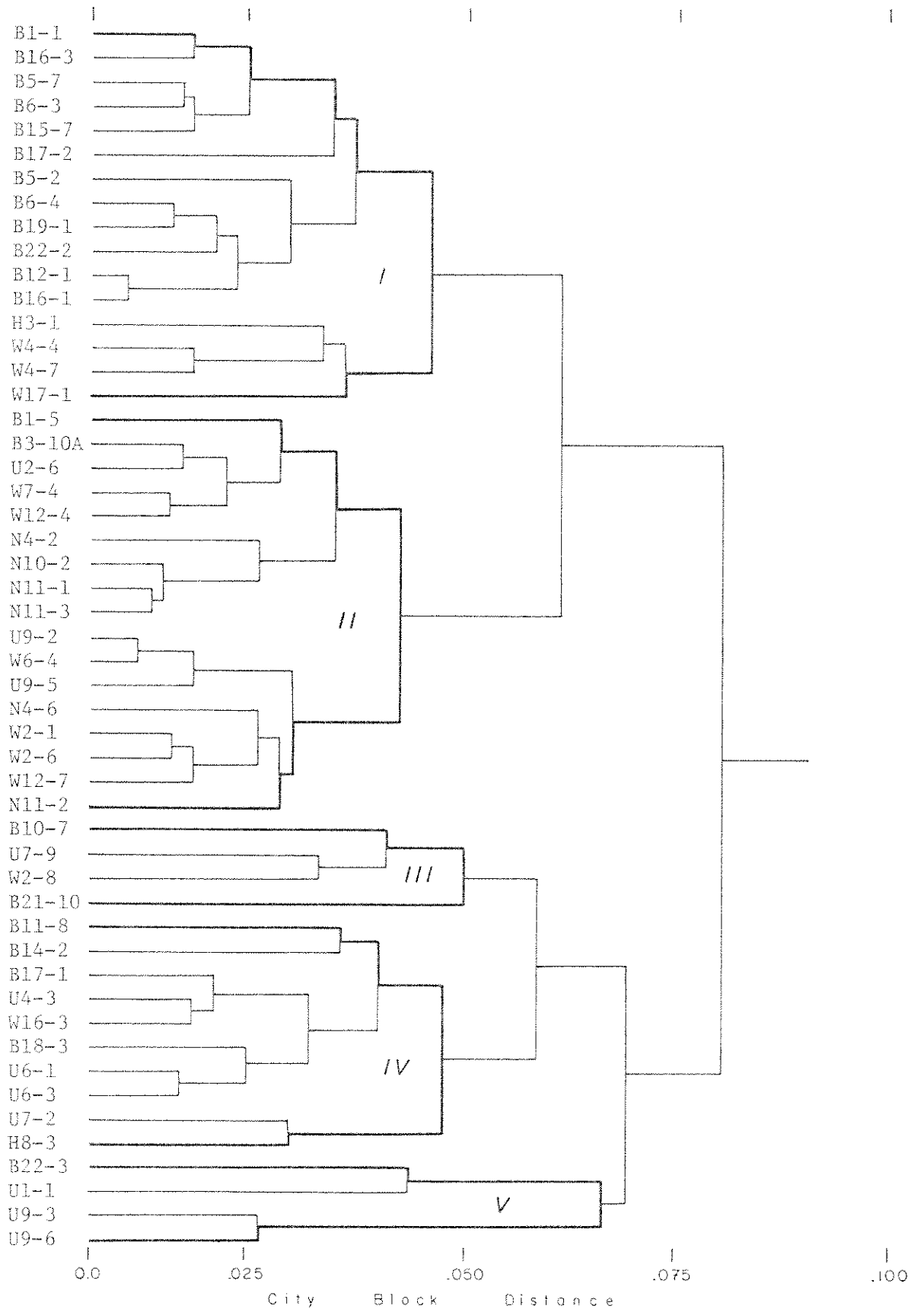


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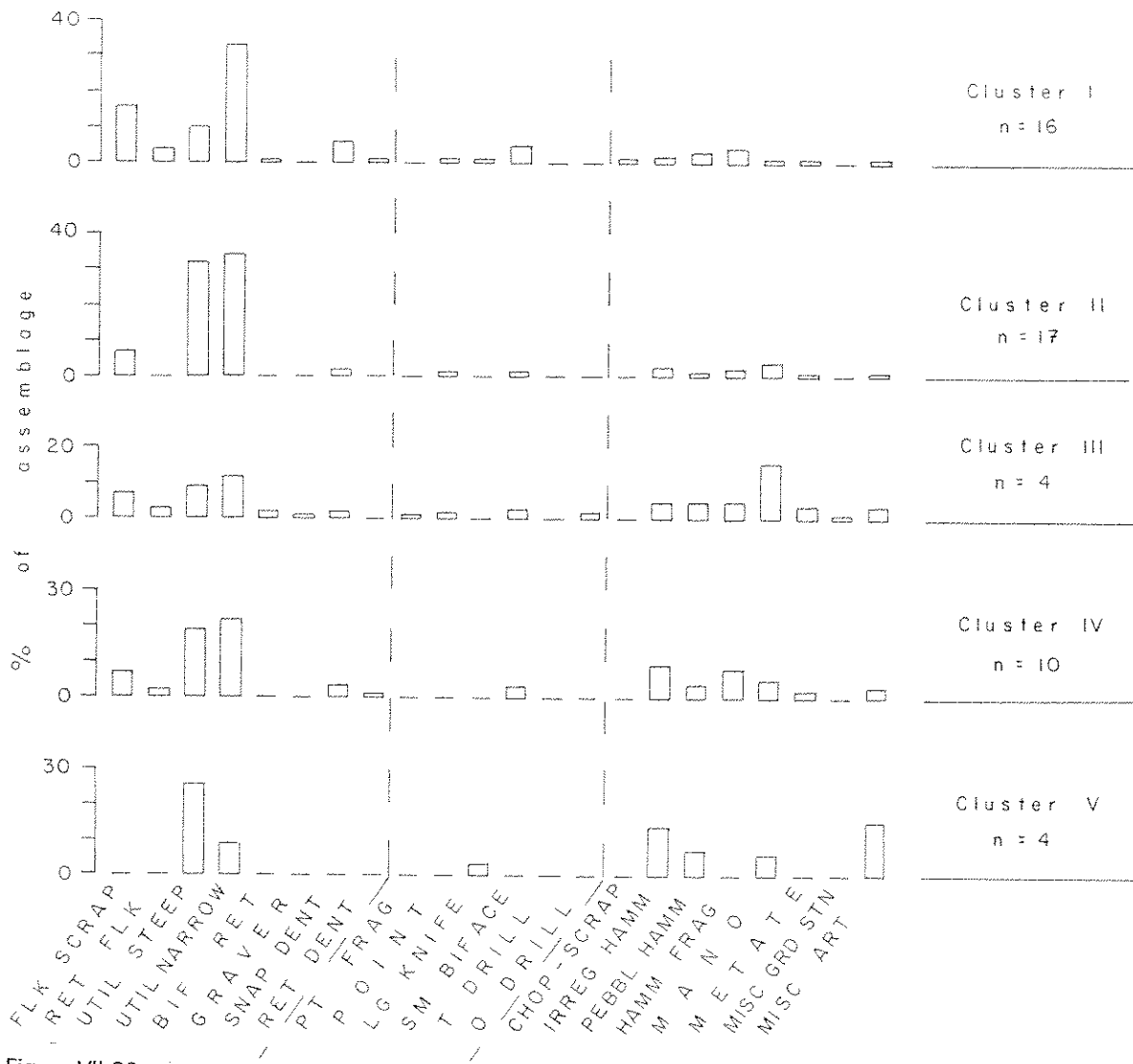


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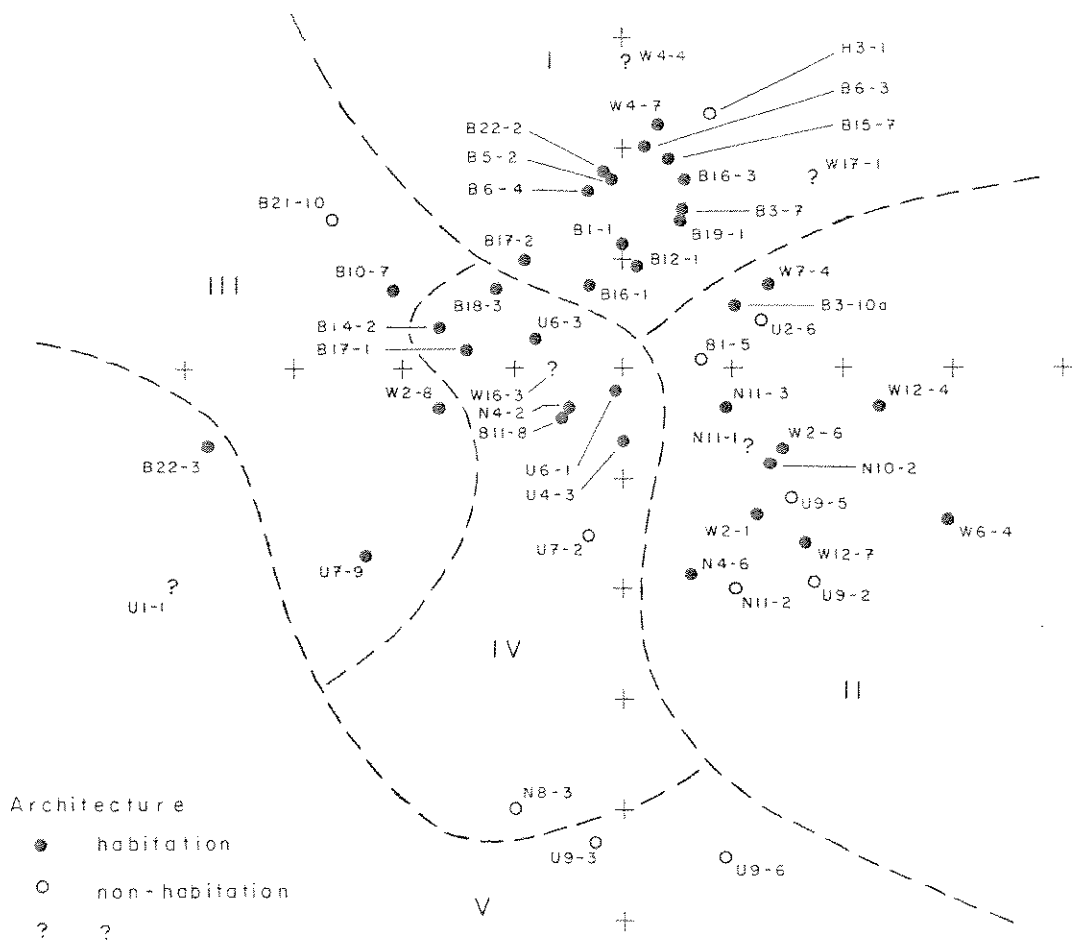


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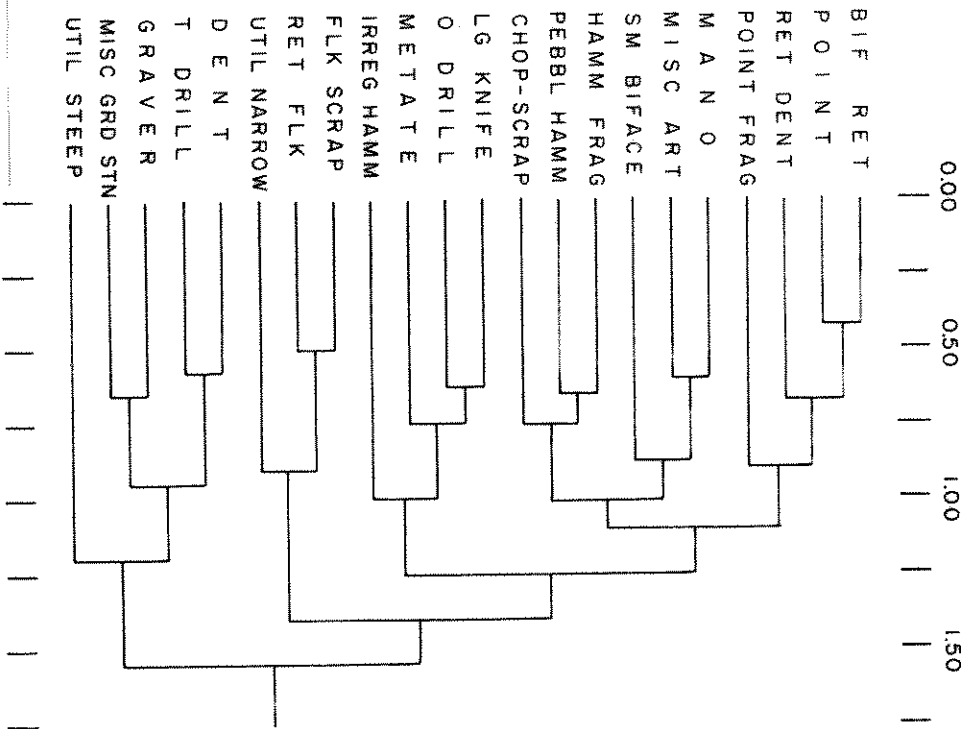


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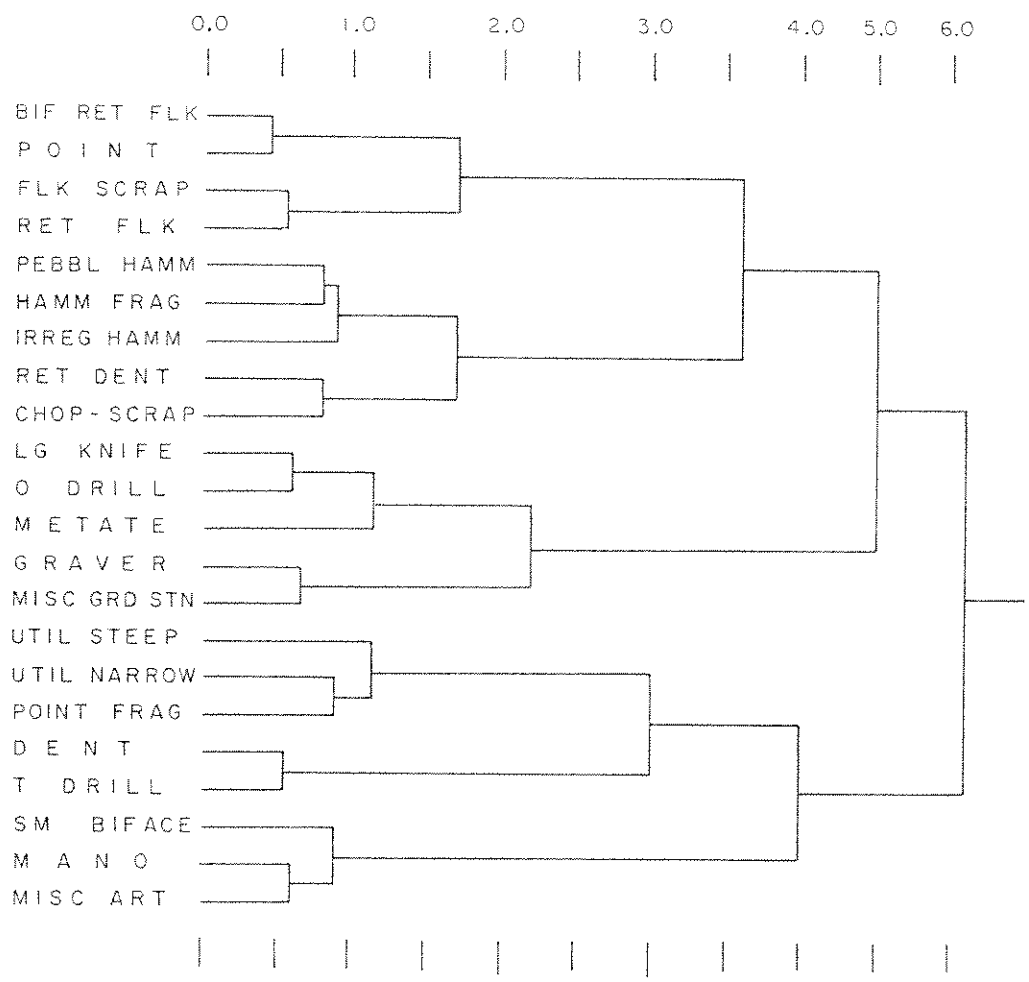


Figure VII-23



Figure VII-24

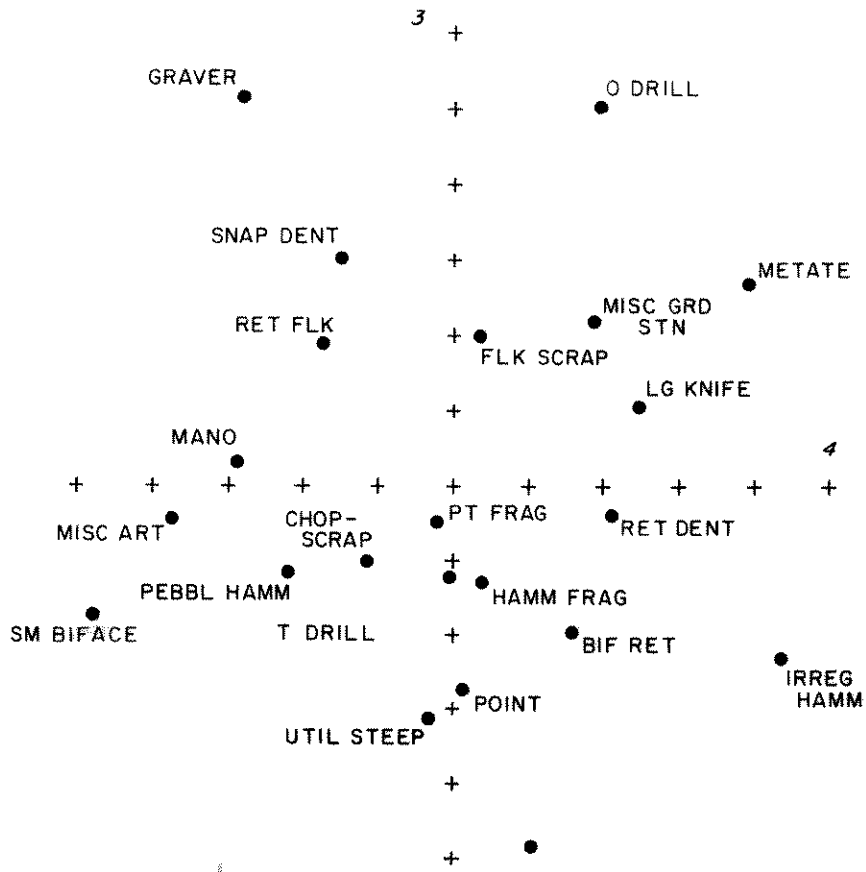


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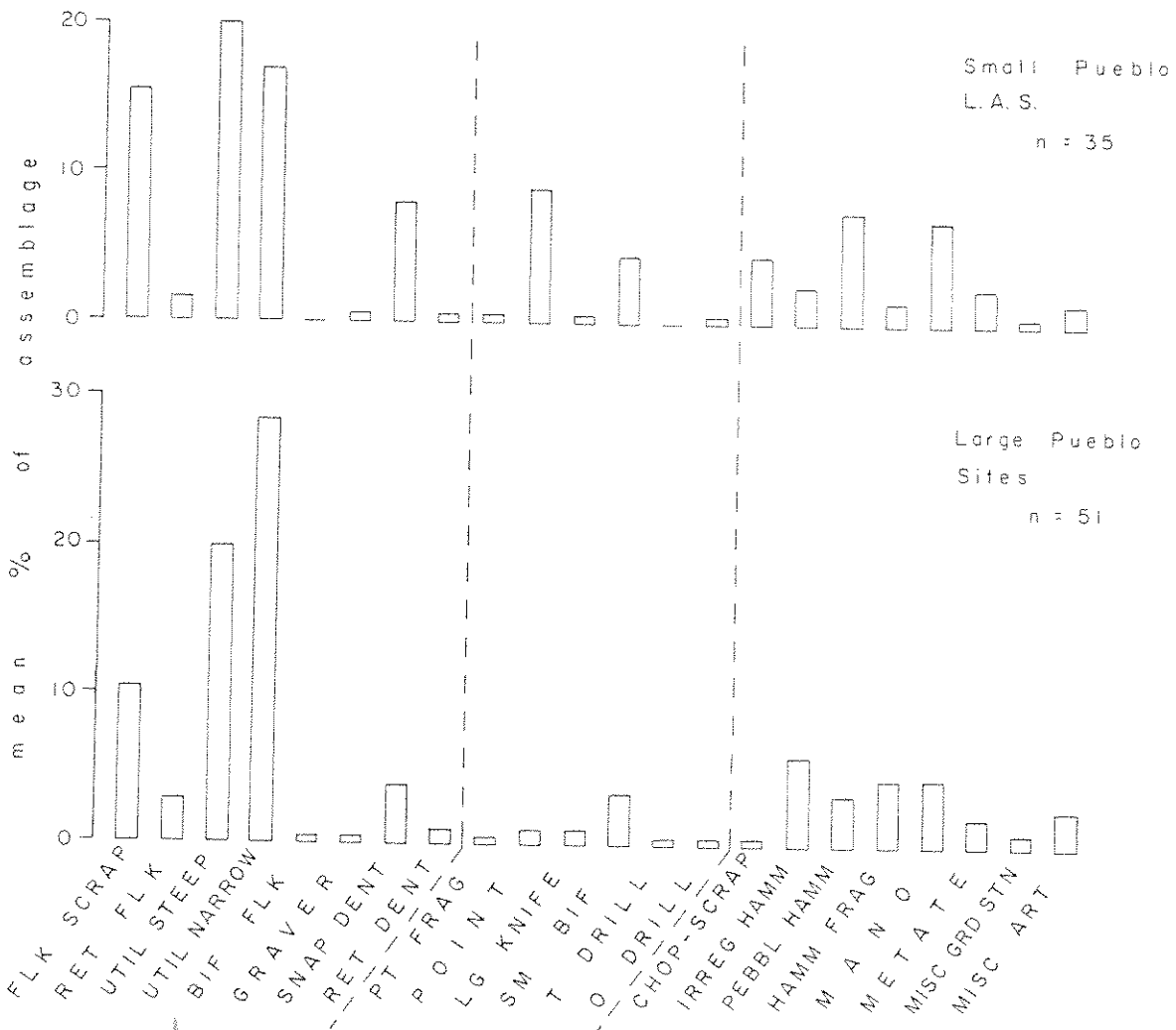


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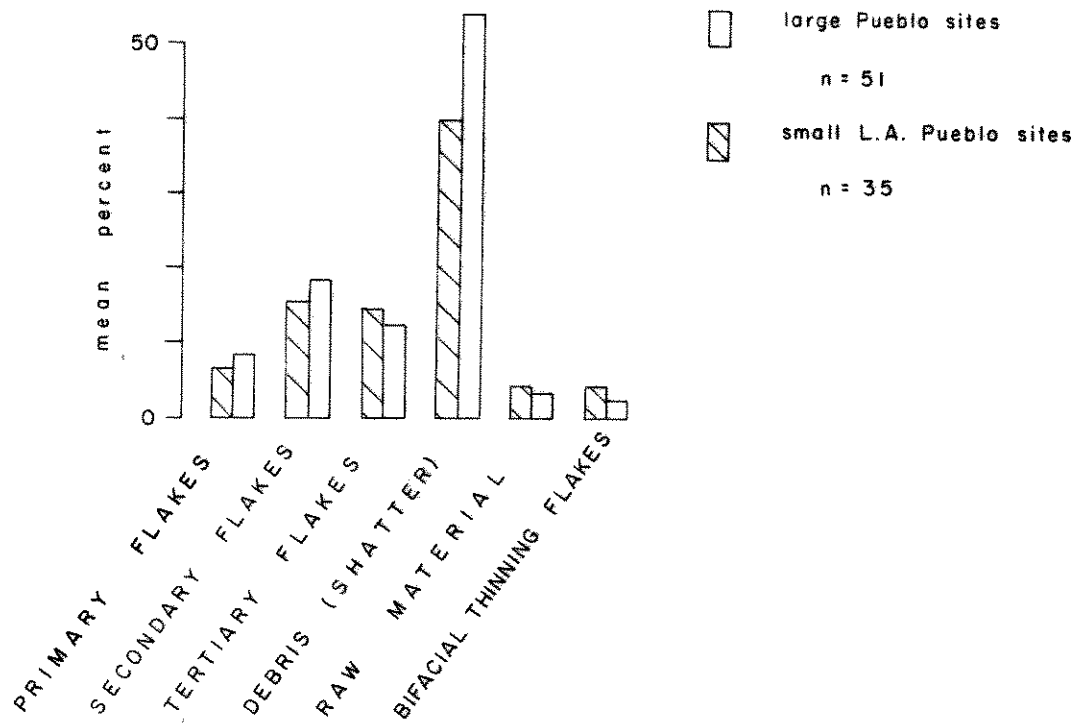


Figure VII-28

Table of Contents
Tables

<u>Table Number</u>	<u>Table Heading</u>	<u>Page</u>
VII-1	Pottery Types used in Seriation	--
VII-2	Ceramic Data for Redhouse Phase (Group I) Sites	--
VII-3	Ceramic Data for Woodenshoe Phase (Group II) Sites	--
VII-4	Ceramic Data for Windgate Phase (Group III) Sites	--
VII-5	Ceramic Data for Clay Hills Phase (Group IV) Sites	--
VII-6	Comparison of Groups III(Windgate) and IV(Clay Hills)	--
VII-7	Comparison of Woodenshoe and Clay Hills	--
VII-8	Comparison of Redhouse and Woodenshoe	--
VII-9	Comparison of Windgate and Woodenshoe	--
VII-10	Comparison of Vector 2 rank of Clay Hills with time sensitive ceramics.	--
VII-11	Comparison of Early Clay Hills with Late Windgate	--
VII-12	Comparison of Early Woodenshoe (Group II) with Late Clay Hills (Group IV)	--
VII-13	Ceramic Variables used in Discriminant Analysis.	--
VII-14	Results of Discriminant Analysis on 47 seriation sites	--
VII-15	Classification of 32 Pueblo Assemblages	--
VII-16	Placement of Non-seriated sites by Discriminant Analysis	--
VII-17	Classification of 22 Canyon site using Discriminant Analysis	--
VII-18	Tree-ring Dates Relevant to Pueblo Phases	--
VII-19	Distribution and Abundance of Pueblo Artifact Types	--
VII-20	Artifacts used in Pueblo Preliminary R-mode Analysis	--
VII-21	Condensed Q-mode Tool Types	--
VII-22	Summary of Farthest Neighbor Pueblo Clusters	--
VII-23	Pueblo Architecture, Large Sites	--
VII-24	Cluster V versus Overall Lithic Technology	--

VII-25	Temporal Affiliation of Clusters and Dimension	--
VII-26	Pueblo Architecture, Small Sites	--
VII-27	Comparison of Small L.A. Sites with Large Pueblo Sites	--
VII-28	Comparison of Debitage between Small L.A. Sites and Large Pueblo sites.	--
VII-29	Pueblo Sites without Lithics	--
VII-30	Sites with Mixed Pueblo Components	--
VII-31	Pueblo Sites with Basketmaker II Components	--
VII-32	Pueblo Sites with Basketmaker III Components	--
VII-33	Summary of Pueblo Quadrat Site Classification	--
VII-34	Pueblo Drainage Canyon Sites	--

TABLE VII - 1. Pottery Types Used in Seriation

<u>ORIGINAL POTTERY TYPE</u>	<u>ANALYSIS</u>		
	Overall Seriation (and R Mode)	Tusayan Seriation	Mesa Verde Seriation
<u>Tusayan W.W.</u>			
Black Mesa B/W	1) Black Mesa	1) Black Mesa	
Sosi B/W	2) Sosi + Dogoszhi	2) Sosi + Dogoszhi	
Dogoszhi B/W			
Flagstaff B/W	3) Flagstaff	3) Flagstaff	
<u>Mesa Verde W.W.</u>			
Cortez B/W	4) Cortez		1) Cortez
Mancos B/W	5) Mancos		2) Mancos
* Mesa Verde B/W, mineral pigment	6) Mesa Verde, min.pigment		3) Mesa Verde (Both org. and min. pigments)
Mesa Verde B/W	7) Mesa Verde, organic pigment		
<u>Tsegi O.W.</u>			
Medicine B/R	8) Medicine + Tusayan	4) Medicine	
Tusayan B/R		5) Tusayan	
Cameron Polychrome	9) Cameron	6) Cameron	
Citadel Polychrome	10) Citadel	7) Citadel + Tusayan	
Tusayan Polychrome	11) Tusayan		
<u>San Juan R/W</u>			
Deadmans B/R	12) Deadmans		4) Deadmans
Middletons B/R	13) Middleton		5) Middleton
Unid. San Juan R.W.			6) Unid. San Juan R.W.
Abajo R/O and Bluff R/O	14) Abajo, Bluff		

* We did not distinguish between McElmo and Mesa Verde varieties of Mesa Verde B/W. These two varieties seem more clearly different on The Mesa Verde than on the Western portion of the Mesa Verde area.

TABLE VII - 2. Ceramic Data for Redhouse Phase (Group 1) Sites

Pottery Sites classes	Kayenta Series											Mesa Verde Series						Total Typed Sherds	Ware					Total Sherds, Wh. Or. & Red Wares
	Black Mesa B/W	Sosi-Dogoshi B/W	Flagstaff B/W	Medicine B/R	Tusayan B/R	Cameron Poly.	Citadel Poly.	Tusayan Poly.	Cortez B/W	Mancos B/W	Mesa Verde B/W	E.W. Min. Pig. Mesa Verde	Mesa Verde B/W	Org. Pig. Abajo-Bluff R/O	Deadman's B/R	Middleton B/R	Kayenta		Mesa Verde					
																	Tusayan W.W.		Tsegi O.W.	Mesa Verde W.W.	San Juan R.W.	Total "Ware only" sherds	Total Sherds	
WJ 6-4	Shd. Ct.			1													17	18	3	0	35	0	38	56
	% Types			6													94	100	5	0	63	0	68	100
	% Tot.			2													30	32	5	0	63	0	68	100
B 19-1	Sh. Ct.		1		6		1			5	2	95					1	110	8	10	123	0	141	251
	% Types		1		5		1			5	2	86					1	100	3	4	49	0	56	100
	% Tot.		.4		2		.4			2	.8	38					.4	44	3	4	49	0	56	100
U 9-2	Shd. Ct.									1	7	16					24	2	0	33	0	35	59	
	% Types									4	29	67					100	41	3	0	56	0	59	100
	% Tot.									2	12	27					41	3	0	56	0	59	100	
B 15-7	Shd. Ct.				2					2	1	28					33	10	4	55	0	69	102	
	% Types				6					6	3	85					100	32	10	4	54	0	68	100
	% Tot.				2					2	1	27					32	10	4	54	0	68	100	
B 22-2	Shd. Ct.						4		2	10	9	127					152	41	11	279	0	331	483	
	% Types						3		1	7	6	84					100	31	8	2	58	0	69	100
	% Tot.						.8		.4	2	2	26					31	8	2	58	0	69	100	
B21-10	Shd. Ct.									1	3	28					1	33	1	7	53	0	61	94
	% Types									3	9	85					3	100	1	7	56	0	65	100
	% Tot.									1	3	30					1	35	1	7	56	0	65	100
B 1-1	Shd. Ct.	1	1							13	22	103					1	141	15	10	170	2	197	338
	% Types	.7	.7							9	16	73					.7	100	4	3	50	.6	58	100
	% Tot.	.3	.3							4	7	30					.3	42	4	3	50	.6	58	100
B3-10A	Shd. Ct.	8	7	2	6	1		5	2	52	35	481		2	2	603	38	50	628	10	726	1329		
	% Types	1	1	.3	1	.2		.8	.3	9	6	80		.3	.3	100	3	4	47	.8	55	100		
	% Tot.	.6	.5	.2	.5	.1		.4	.2	4	3	36		.2	.2	45	3	4	47	.8	55	100		
WJ 2-1	Shd. Ct.									2	3	12					17	2	0	39	0	41	58	
	% Types									12	18	71					100	29	3	0	67	0	71	100
	% Tot.									3	5	21					29	3	0	67	0	71	100	
B 7-5	Shd. Ct.		1							3	20						24	4	2	41	0	47	71	
	% Types		4							13	83						100	34	6	3	58	0	66	100
	% Tot.		1							4	28						34	6	3	58	0	66	100	
CM-1	Shd. Ct.		2							4	2	30					38	10	6	27	1	44	82	
	% Types		5							11	5	79					100	46	12	7	33	1	54	100
	% Tot.		2							5	2	37					46	12	7	33	1	54	100	
*Group Mean	% Types	.15	1.1	.55	.02	1.1	.02	.37	.07	.39	7.7	7.7	81	0.0	.09	.39	37	5.3	3.1	54	.2	63		
	% Tot.	.08	.38	.18	.02	.41	.01	.11	.04	.15	2.8	3.0	30	0.0	.05	.15	37	5.3	3.1	54	.2	63		
*Group median	% Types	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.0	5.0	83	0.0	0.0	0.0	35	4.0	3.8	56	0.0	65		
	% Tot.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.0	1.9	30	0.0	0.0	0.0	35	4.0	3.8	56	0.0	65		
*Group inter-quartile Range	% Types	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.0	0.0	73	0.0	0.0	0.0	32	2.8	0.0	49	0.0	56		
	% Tot.	0.0	1.0	0.0	0.0	1.0	0.0	0.0	0.0	0.3	11	16	85	0.0	0.0	0.3	32	2.8	0.0	49	0.0	56		
	% Tot.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.0	0.0	27	0.0	0.0	0.0	32	2.8	0.0	49	0.0	56		
	% Tot.	0.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.2	4.0	5.2	36	0.0	0.0	0.2	44	7.4	3.9	58	0.6	68		

* All these summary statistics treat each site as equals. Thus the means are the percentages listed in the columns divided by the number of sites in the group, in this case eleven. The group medians were found by ranking the percentages in each column from smallest to largest and entering the middle figure, in this case the sixth, into the median row.

With the same rank order of percentages the figure closest to the 1/4 point, in this case the third, and the figure closest to the 3/4 point, in this case the ninth were entered into the interquartile row.

TABLE VII - 3 . Ceramic Data for Woodenshoe Phase (Group II) Sites

Pottery Sites classes -Sherds counts -% of dec. types -% of total Wh.Or.&Red Wares	Kayenta Series														Mesa Verde Series							Total Typed Sherds	Ware						Total Sherds, Wh.Or. & Red Wares
	Black Mesa E/W	Sosi-Dogoshi E/W	Flagstaff E/W	Medicine E/R	Tusayan E/R	Cameron Poly.	Citadel Poly.	Tusayan Poly.	Cortez E/W	Mancos E/W	Mesa Verde E/W, Min. Pig.	Mesa Verde E/W, Or. Pig.	Abajo-Bluff E/O	Deadman's E/R	Middleton E/R	Kayenta			Mesa Verde										
																Tusayan W.W.	Iségi O.W.	Mesa Verde W.W.	San Juan E.W.	Total "ware only" sherds									
Sh.Ct. U.C.14-1 % Types % Tot.										5		26					31	0	1	49	0	50	81						
										16		84					38	0	1	60	0	62							
										6		32																	
B18-3		4	1		3		1	12		21	20	100					162	16	27	124	3	170	332						
		2	.6		2		.6	7		13	12	62					49	5	8	37	1	51							
		1	.3		1		.3	4		6	6	30																	
WJ 9-2A										7	2	26					40	1	8	19	2	30	70						
										5	8	65					57	1	11	27	3	43							
										3	4	37																	
HS8-3					2		1	1		4	1	18					27	13	2	34	2	51	78						
					7		4	4		15	4	67					35	17	3	44	3	65							
					3		1	1		5	1	23																	
GG-C3-1	2	7					3			21	2	98	1	4	1	139	5	9	204	238	377								
	1	5					2			15	1	71	.7	3	.7														
	.5	2					.8			6	.5	26	.3	1	.3	37	1	2	54	5	63								
WJ 7-4		2	2		2					16	4	34					60	3	2	64	0	69	129						
		3	3		3					27	7	57					47	2	2	50	0	53							
		2	2		2					12	3	26																	
B 17-1		9	6	1	1		3	5		22	1	61					109	49	24	115	3	191	300						
		8	6	1	1		3	5		20	1	56					36	16	8	38	1	64							
		3	2	.3	.3		1	2		7	.3	20																	
B 16-1				1	3					3		12		2	2	23	1	7	34	4	46	69							
				4	13					13		52		9	9														
				1	4					4		17		3	3	33	1	10	49	6	67								
N 4-5	2	7								10		28		2	4	53	7	3	90	14	114	167							
	4	13								19		53		4	8														
	1	4								6		17		1	2	32	4	2	54	8	68								
WJ 9-2 Shd.Ct. % Types				1	1		3	8		20	4	26		1		64	0	21	47	1	69	133							
				2	2		5	13		31	6	41		2		48	0	16	35	.8	52								
				.8	.8		2	6		15	3	20		.8															
B-6-3	1	41		3	1			2	3	37	13	95			4	200	20	11	151	4	186	386							
	.5	21		2	.5			1	2	19	7	48			2														
	.3	11		.8	.3			.5	.8	10	3	25			1	52	5	3	39	1	48								
B-14-2		6	1	2	1	2	10	4	1	21	1	36			1	86	36	192	117	6	351	437							
		7	1	2	1	2	12	5	1	24	1	42			1														
		1	.2	.5		.2	2	1	.2	5	.2	8			.2	20	8	44	27	1	80								
Group Mean % Types	.46	4.9	1.1	.75	2.5	.17	2.6	3.6	.25	19	3.7	58	.06	1.5	1.7	40	4.8	9.2	43	2.5	60								
	.15	2.0	.44	.22	.96	.04	.84	1.5	.08	7.7	1.7	23	.03	.48	.54														
Group median % Types	0.0	2.5	0.0	0.0	1.5	0.0	1.3	2.5	0.0	18.5	2.5	57	0.0	0.0	0.0	38	3.0	5.5	42	1.0	63								
	0.0	1.3	0.0	0.0	.3	0.0	.6	.75	0.0	6.5	.75	24	0.0	0.0	0.0														
Group inter-quartile % Types	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	15	0.0	48	0.0	0.0	0.0	33	1.0	2.0	35	1.0	51								
	.5	8.0	2.0	1.5	3.0	0.0	5.0	7.0	0.0	24	7	67	0.0	3	2	49	8.2	11	54	5	67								
Range	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5	0.0	17	0.0	0.0	0.0	49	1.0	1.0	54	5	67								
	.3	3.0	.75	.5	2.0	0.0	2.0	3.6	0.0	10	3	30	0.0	1.0	1.0														

TABLE VII - 4. Ceramic Data for Windgate Phase (Group III) Sites

Pottery Sites classes -Sherds counts -% of dec. types -% of total Wh.Or.&Red Wares	Kayenta Series											Mesa Verde Series						Total Typed Sherds	Ware					
	Black Mesa B/W	Sosi-Dogshi B/W	Flagstaff B/W	Medicine B/R	Tusayan B/R	Cameron Poly.	Citadel Poly.	Tusayan Poly.	Cortez B/W	Mancos B/W	Mesa Verde B/W, Min. Pig.	Mesa Verde B/W, Org. Pig.	Abajo-Bluff R/O	Deadman's B/R	Middleton B/R	Kayenta			Mesa Verde		Total "Ware only" sherds	Total Sherds, Wh.Or. & Red Wares		
																Tusayan W.W.	Tsegi O.W.		Mesa Verde	San Juan P.W.				
B 12-1 Shd.Ct. % Types % Tot.	11 6 2	9 5 2		14 8 3	9 5 2		1 .6 .2	1 .6 .2	1 .6 .2	30 17 6	4 2 .8	63 35 13		14 8 3	21 12 4	178 100 36	49 10	48 10	188 38	38 8	323 64	501 100		
N 4-2	2 2 .8	9 10 4	1 1 .4					5 5 2	22 24 9	5 5 2	31 34 13		8 9 3	8 9 3	91 100 38	19 8	9 4	108 45	11 5	147 62	238 100			
N 11-4	1 20 .2								3 60 .7		1 20 .2				5 100 1	31 8	14 3	188 46	172 42	405 99	410 100			
W 2-6	1 1 .3	4 4 1	1 1 .3					2 2 .7	59 63 21	7 8 2	16 17 6	1 1 .3	1 1 .3	1 1 .3	93 100 32	20 7	19 7	149 52	6 2	194 68	287 100			
W 4-4	3 7 3	2 4 2		2 4 2	2 4 2			1 2 1	13 29 11	1 2 1	14 31 12		4 9 3	3 7 3	45 100 38	11 9	3 3	30 25	31 26	75 63	120 100			
H 14-2	2 6 2						2 6 2	3 9 3	7 22 7		7 22 7		11 34 11		32 100 32	9 9	9 9	32 32	17 17	67 68	99 100			
W 12-4	4 9 3	1 2 1		4 9 3					14 30 12	2 4 2	11 23 9	2 4 2	6 13 5	3 6 3	47 100 41	6 5	8 7	38 33	17 15	69 59	116 100			
W 2-8		4 29 6						1 7 2	5 36 8		4 29 6				14 100 23	8 13	10 16	27 44	3 5	48 77	62 100			
U 6-1	1 .4 .2	31 12 5	1 .4 .2	5 2 .8	25 10 4	6 2 1	8 3 1	7 3 1	6 2 1	78 31 12	25 10 4	59 23 9	2 .8 .3		1 .4 .2	255 100 40	72 11	71 11	233 37	2 .3	378 60	633 100		
B 3-1 Shd.Ct. % Types % Tot.	9 5 2	28 16 6	1 .6 .2	10 6 2	25 14 6		1 .6 .2		6 3 1	35 20 8	1 .6 .2	53 30 12		2 1 .4	5 3 1	176 100 40	64 15	63 14	125 29	8 2	260 60	436 100		
B 3-7	3 5 2	2 3 1		7 11 4	7 11 4		2 3 1		3 5 2	10 16 5	1 2 .5	7 11 4		7 11 4	62 100 34	16 9	38 21	51 28	15 8	120 66	182 100			
N 11-3	9 10 4	7 8 3	2 2 .8	4 5 2	8 9 3		1 1 .4	4 5 2	15 17 6		2 2 .8	4 5 2	12 14 5	18 21 7	85 100 33	14 5	20 8	33 13	104 40	171 67	257 100			
B 6-4	7 7 3	8 9 3		14 15 5	10 11 4			17 18 7	12 13 5		1 1 .4		15 16 6	10 11 4	94 100 36	26 10	48 19	58 22	33 13	165 64	259 100			
Group % Types Mean % Tot.	6.0 1.7	7.8 2.6	.38 .15	3.9 1.4	5.6 2.2	.15 .08	1.0 .34	1.2 .43	3.7 1.4	29 8.5	2.6 1.0	21 7.1	.83 .35	8.8 3.1	7.0 2.5	33	9.2	10	34	14	67			
Group % Types median % Tot.	6 2	5 2	0.0 0.0	2.0 .8	5 2	0.0 0.0	0.0 0.0	0.0 0.0	2 .95	24 8	1.6 .5	23 7	0.0 0.0	9 3	6 2.5	36	9	9	33	8	64			
Group % Types inter- quartile % Tot. Range	1.0 7 .2 3	2 12 1.1 5	0.0 1.0 0.0 .34	0.0 8 0.0 3	0.0 11 0.0 4	0.0 0.0 0.0 0.0	0.0 3 0.0 1.0	0.0 2 0.0 .83	0.0 5 0.0 2	17 36 5 12	0.0 5 0.0 2	11 31 0.0 12	0.0 1.1 0.0 .32	0.0 14 0.0 5	0.0 12 0.0 4	32 40	8 11	4 16	25 45	1.8 26	60 68			

* All these summary statistics treat each site as equals. Thus the means are the percentages listed in the columns divided by the number of sites in the group, in this case eleven. The group medians were found by ranking the percentages in each column from smallest to largest and entering the middle figure, in this case the sixth, into the median row.

With the same rank order of percentages the figure closest to the 1/4 point, in this case the third, and the figure closest to the 3/4 point, in this case the ninth were entered into the interquartile row.

TABLE VII - 5. Ceramic Data for Clay Hills Phase (Group IV) Sites

Pottery Sites classes -Sherds counts -% of dec. types -% of total Wh. Or. & Red Wares	Kayenta Series														Mesa Verde Series										Ware									
	Black Mesa B/W	Sosi-Dogosni B/W	Flagstaff B/W	Medicine B/R	Tusayan B/R	Cameron Poly.	Citadel Poly.	Tusayan Poly.	Cortez B/W	Mancos B/W	Mesa Verde B/W, Min. Pig.	Mesa Verde B/W, Org. Pig.	Abafo-Bluff B/O	Deadman's B/R	Middlaton B/R	Total Typed Sherds	Kayenta					Mesa Verde					Total "Ware only" sherds	Total Sherds, Wh. Or. & Red Wares						
																	Tusayan M.W.	Tsegi O.W.	Mesa Verde W	Verde W	San Juan B.W.	Tusayan W	Mesa Verde W	Verde W	San Juan W									
U 4-3 Shd.Ct. % Types % Tot.	11 2 .5	157 24 8	17 3 1	11 2 .5	66 10 3	7 1 .3	6 1 .3	9 1 .4	6 1 .3	227 34 11	44 7 2	94 14 5		1 .2 .05	5 1 .2	66 100 33	321 16 33	356 18 38	630 31 25	52 3 1	1359 67 62	2020 100 100												
U 6-3	4 2 .7	58 28 11	7 3 1	10 5 2	29 14 5	1 .5 .2	2 1 .4	14 7 3	3 1 .6	29 14 5	10 5 2	31 15 6	5 2 1		3 1 .6	206 100 38	93 17 38	103 19 25	137 25 1	6 1 1	339 62 100	545 100 100												
N 10-2A	6 4 2	43 31 14			15 11 5	8 6 3	10 7 3	6 4 2	1 1 .3	43 31 14		3 2 1		1 1 .3	3 2 1	139 100 47	25 8 25	75 25 18	33 18 18	5 2 2	158 53 100	297 100 100												
N 10-2	5 8 5	14 23 13	1 2 1	2 3 2	12 19 11	2 3 2	6 10 6	1 2 1	1 2 1	16 26 15		1 2 1			1 2 1	62 100 57	19 17 13	18 17 17	10 9 13	0 0 0	47 43 100	109 100 100												
B 8-2	4 8 4	24 47 24		1 2 1	5 10 5	1 2 1	1 2 1	1 2 1		12 24 12		2 4 2				51 100 51	7 7 7	39 39 39	3 3 3	0 0 0	49 49 100	100 100 100												
U 7-9	1 1 .7	19 23 13		2 2 1	11 13 7	1 1 1	9 11 6	1 1 .7		3 4 2	27 32 18	10 12 7				84 100 57	19 13 13	25 17 17	19 13 13	0 0 0	63 43 100	147 100 100												
N 4-6	4 4 2	41 37 23	3 3 2	2 2 1	22 20 12	2 2 1	7 6 4	3 3 2	2 2 1	19 17 10		3 3 2		1 1 .5	2 2 1	111 100 61	25 14 14	24 13 11	20 11 1	2 1 1	71 39 100	182 100 100												
B 4-4	4 16 5	14 56 18		1 4 1	2 8 3					3 12 4		1 4 1				25 100 32	31 39 39	11 14 14	12 15 0	0 0 0	54 68 100	79 100 100												
B 10-7	19 7 4	80 32 15	28 10 5	12 4 2	54 20 10	5 2 1	20 7 4	14 5 3	1 .4 .2	15 5 3		24 9 5			1 .4 .2	273 100 52	94 18 22	114 22 22	39 7 7	6 1 1	253 48 100	526 100 100												
B 5-2 Shd.Ct. % Types % Tot.	1 2 1	21 48 18	4 9 3	1 2 1	6 14 5	2 5 2	3 7 3	4 9 3		2 5 2						44 100 38	21 18 18	43 37 37	7 6 6	1 1 1	72 62 100	116 100 100												
B 1-4		8 21 14	25 66 45		4 11 7		1 3 2									38 100 68	1 2 2	15 27 27	2 4 4	0 0 0	18 32 100	56 100 100												
Group Mean	5.0 2.3	34 16	8.7 5.3	2.4 1.0	13.6 6.6	2 1.1	5.0 2.7	3.1 1.5	.67 .31	16 7.1	4.0 2.0	5.9 2.7	.23 .1	.20 .08	.76 .36	49	15	23	13	.82	51													
Group Median	4.3 2.0	31 14	3 1.3	2.3 1.0	13 6	2 1	6 3	2 1	.4 .2	14 5	0.0 0.0	4 1.6	0.0 0.0	0.0 0.0	.4 .2	51	16	19	11	.94	49													
Group Inter-quartile Range	1.7 8 .7 4	23 47 13 18	0.0 9 0.0	2 4 .5 3	10 19 5 2.0	1.0 3 .2 1.0	1.0 7 .4 1.0	1.0 5 .4 3	0.0 1.0 0.0 .6	5 26 2 12	0.0 5 0.0 2	2 12 0.0 5	0.0 0.0 0.0 0.0	0.0 .2 0.0 0.05	0.0 2.2 0.0 1.0	38 57	8 18	17 27	6 18	0.0 1.1	43 62													

Test	Statistic Used	Clay Hills		Windgate		Expected Trend	Significance .10 level	(Wilcoxon Test) Actual Level
		(Group IV) Mean Median	(Group III) Mean Median	(Group IV) Mean Median	(Group III) Mean Median			
Tusayan White Ware Test 1	Black Mesa B/W over Black Mesa + Sodo + Flagstaff B/W	.107	.083	.471	.500	+	+	.005
Tusayan White Ware Test 2	Flagstaff B/W over Flagstaff + Sodo B/W	.138	.068	.059	0.0	+	-	
Tsegi Orange Ware Test 1	Medicine and Tusayan B/R over all typed Tsegi O.W. sherds	.656	.667	.786	.920	+	+	.05
Tsegi Orange Ware Test 2	Medicine B/R over Tusayan B/R + Medicine B/R	.146	.143	.372	.417	+	+	.01
Mesa Verde White Ware Test 1	Cortez B/W over Mancos B/W + Cortez B/W	.037	.024	.130	.071	+	+	.10
Mesa Verde White Ware Test 2	Mesa Verde B/W over Cortez Mancos and Meza Verde B/W	.310	.197	.472	.500	-	+	.10
Mesa Verde White Ware Test 3	Unid. MV W.W. Crushed Rock Temper over Unid. MV W.W. Crushed Rock Temper + Unid MV W.W. sherd + Temper	.306	.271	.480	.447	+	+	.05

Table VII -6 Comparisons of Groups III and IV using selected time-sensitive Ceramic types. The hypothesis being tested is that Windgate is older than Clay Hills.

Test	Statistic Used	Clay Hills Cluster IV		Woodenshoe Cluster II		Expected Trend	Significance (wilcoxon Test)	
		Mean	Median	Mean	Median		.10 Level	Actual Level
Tusayan White Ware Test 1	Black Mesa B/W over Black Mesa + Sodo B/W + Flagstaff B/W	.107	.083	.058	0.00	+	+	.05
Tusayan White Ware Test 2	Flagstaff B/W over Sodo B/W + Flagstaff B/W	.138	.068	.280	.171	+	-	
Tsegi O.W. Test 1	Medicine and Tusayan B/R over all typed Tsegi O.W.	.656	.667	.380	.195	+	+	.05
Tsegi O.W. Test 2	Tusayan Polychrome + Citadel Polychrome over Tusayan, Citadel, Cameron Polychromes.	.813	.806	.984	1.00	+	+	.005
Mesa Verde White Ware Test 1	Mesa Verde B/W over Mesa Verde B/W + Mancos B/W + Cortez B/W	.310	.197	.757	.769	+	+	.001
Mesa Verde White Ware Test 2	Unid. MV W.W., crushed rock temper, over Unid. MV W.W., crushed rock temper + Unid. MV W.W., Sherd temper W.W.	.306	.271	.287	.228	+	-	

Table VII-7 Comparison of Woodenshoe and Clay Hills. Clay Hills is expected to be older than Woodenshoe.

<u>Test</u>	<u>Statistic Used</u>	<u>Woodenshoe (Group II)</u>		<u>Redhouse (Group I)</u>		<u>Expected Trend</u>	<u>Significance (Wilcoxon Test)</u>	
		<u>Mean</u>	<u>Median</u>	<u>Mean</u>	<u>Median</u>		<u>.10 Level</u>	<u>Actual Level</u>
Mesa Verde White Ware, Test 1	Mancos B/W + Cortez B/W over total typed White, Orange & Red Ware.	.193	.180	.066	.079	+	+	.001
Mesa Verde White Ware, Test 2	Mesa Verde B/W over Mesa Verde B/W + Mancos B/W + Cortez B/W	.757	.769	.917	.906	+	+	.001
San Juan Red Ware, Test 1	San Juan Red Ware (including unidentified) over total all white, orange and red ware.	.036	.019	.014	0.00	+	+	.025
Mesa Verde White Ware, Test 3	Unid MV W.W., crushed rock temper, over Unid MV W.W., crushed rock temper + Unid MV W.W., sherd temper	.287	.228	.297	.264	?	-	
Tsegi Orange Ware, Test 1	Tusayan Polychrome + Citadel Polychrome over total typed Tsegi Orange Ware	.684	.800	.472	.357	+	-	
Gray Ware Test	Mancos Gray over total corr.	.0044	0.00	.0024	0.00	+	-	

Table VII-8 Comparison of Redhouse (Groups I) and Woodenshoe (Groups II). Woodenshoe is expected to be older than Redhouse.

Test	Statistic Used	Windgate Group III		Woodenshoe Group II		Expected Trend	Significance (Wilcoxon Test)	
		Mean	Median	Mean	Median		.10 Level	Actual Level
Tusayan White Ware, Test 1	Black Mesa B/W over Black Mesa B/W + Sodo B/W + Flagstaff B/W	.471	.500	.058	0.00	+	+	By Inspection
Tusayan White Ware, Test 2	Flagstaff B/W over Flagstaff B/W + Sodo B/W	.059	0.00	.280	.171	+	+	By Inspection
Tsegi Orange Ware, Test 1	Medicine B/R + Tusayan B/R over all typed Tsegi O.W. sherds	.786	.920	.380	.195	+	+	By Inspection
Tsegi Orange Ware, Test 2	Medicine B/R over Medicine B/R + Tusayan B/R	.372	.417	.292	.250	+	-	
Mesa Verde White Ware, Test 1	Mesa Verde B/W over Mesa Verde B/W + Mancos B/W + Cortez B/W	.472	.500	.757	.769	+	+	.001
Mesa Verde White Ware, Test 2	Unid. MV W.W., crushed rock temper, over Unid. MV. W.W. crushed rock temper + Unid. MV, W.W. sherd temper	.480	.447	.287	.228	+	+	.005
Mancos Gray Test	Mancos Gray over total corrugated.	.0277	.0116	.0044	0.00	+	+	.01

Table VII-9 Comparison of Windgate and Woodenshoe. Windgate is expected to be older than Woodenshoe.

Test	Test Statistic	Spearman Corr. Coef.	Significance Tests			
			Spearman .10 Level	Actual Level	Wilcoxon .10 Level	Actual Level
Tusayan White Ware Test 1	Black Mesa B/W over Black Mesa B/W + Sodo B/W + Flagstaff B/W	+ .509	+	.10	-	
Tusayan White Ware Test 2	Flagstaff B/W over Flagstaff + Sodo B/W	+ .459	+	.10	-	
Tsegi Orange Ware Test 1	Tsegi B/R over Tsegi B/R + Tsegi O.W. polychromes	-.052	-		-	
Tsegi Orange Ware Test 2	Medicine B/R over Medicine B/R + Tusayan B/R	+ .061	-		-	
Tsegi Orange Ware Test 3	Citadel Poly + Tusayan Poly over all Tsegi O.W. polychromes	+ .592	+	.10	+	.10
Mesa Verde White Ware Test 1	Mesa Verde B/W over Mesa Verde B/W + Mancos + Cortez B/W	+ .617	+	.05	-	
Mesa Verde White Ware Test 2	Unid. MV W.W., crushed rock temper, over Unid. MV W.W., crushed rock temper + Unid. MV W.W., Sherd temper	+ .55	+	.10	-	

Table VII-10

Comparison of rank order of sites on Vector 2 of Clay Hills (Group IV) with rank order of sites by time-sensitive ceramics indices. Spearman significance tests run on actual rank orders. Wilcoxon test compares the "early" and "late" halves of the orderings achieved by the ceramic indices and the Vector 2 scaling.

<u>Test</u>	<u>Statistic Used</u>	<u>Early Clay Hills Group IV</u>		<u>Late Windate Group III</u>		<u>Expected Trend</u>	<u>Significance (Wilcoxon Test)</u>	
		<u>Mean</u>	<u>Median</u>	<u>Mean</u>	<u>Median</u>		<u>.10 Level</u>	<u>Actual Level</u>
Tusayan White Ware Test 1	Black Mesa B/W over Black Mesa B/W + Sodo B/W + Flagstaff B/W	.126	.122	.371	.360	+	+	.05
Tusayan White Ware Test 2	Flagstaff B/W over Sodo B/W + Flagstaff B/W	.054	.067	.10	.10	-	-	
Tsegi Orange Ware Test 1	Tsegi O.W. B/R over total typed Tsegi O.W.	.627	.667	.573	.800	?	?	
Mesa Verde White Ware Test 1	Cortez B/W over Mancos B/W + Cortez B/W	.040	.026	.050	.032	+	-	
Mesa Verde White Ware Test 2	Mesa Verde B/W over Mesa Verde B/W + Mancos B/W + Cortez B/W	.239	.143	.469	.518	-	+	.10
Mesa Verde White Ware Test 3	Unid. MV W.W., rock temper, over MV W.W., rock temper + Unid. MV W.W., sherd temper	.324	.338	.556	.492	+	+	.10

Table VII-11 Comparison of early Clay Hill with late Windgate. Early Clay Hills is expected to be later than Late Windgate.

<u>Test</u>	<u>Statistic Used</u>	<u>Late Clay Hills Group IV</u>		<u>Early Woodenshoe Group II</u>		<u>Expected Trend</u>	<u>Significance (Wilcoxon Test)</u>	
		<u>Mean</u>	<u>Median</u>	<u>Mean</u>	<u>Median</u>		<u>.10 Level</u>	<u>Actual Level</u>
Tusayan W.W. Test 1	Flagstaff B/W over Flagstaff B/W + Sodo B/W + Black Mesa B/W	.199	.108	.136	.072	-	-	-
Tusayan W.W. Test 2	Black Mesa B/W over Black Mesa B/W + Flagstaff B/W + Sodo B/W	.090	.067	.062	.012	+	-	-
Tsegi O.W. Test 1	Tsegi O.S. B/R over total typed Tsegi O.W.	.679	.648	.422	.200	+	-	-
Tsegi O.W. Test 2	Citadel Poly + Tusayan Poly over all Tsegi O.W. polychromes	.848	.853	.969	1.00	+	+	.05
Mesa Verde W.W. Test 1	Mesa Verde B/W over Mesa Verde B/W + Mancos B/W + Cortez B/W	.475	.425	.705	.734	+	-	-
Mesa Verde W.W. Test 2	Unid. MV W.W., rock temper, over total Unid. MV W.W.	.269	.231	.274	.279	-	+	.10

Table VII-12 Comparison of early Group II with late Group IV. Early Group II is expected to be later than late Group IV.

TABLE VII - 13

Ceramic Variables Used in Discriminant Analysis

<u>A. Fourteen Decorated Types</u>	<u>B. Sixteen Types or Ware Classes</u>
1. Black Mesa B/W	1. Black Mesa B/W
2. Sosi B/W plus Dogoszhi B/W	2. Sosi B/W plus Dogoszhi B/W
3. Flagstaff B/W	3. Flagstaff B/W
4. Cortez	4. Cortez B/W
5. Mancos B/W	5. Mancos B/W
6. Mesa Verde B/W, Mineral Pigment	6. Mesa Verde B/W, Mineral Pigment
7. Mesa Verde B/W, Organic Pigment	7. Mesa Verde B/W, Organic Pigment
8. Medicine B/R plus Tusayan B/R	8. Cameron Polychrome
9. Cameron Polychrome	9. Deadmans B/R
10. Citadel Polychrome	10. Middleton B/R
11. Tusayan Polychrome	11. Medicine B/R
12. Bluff R/O plus Abajo R/O	12. Tusayan B/R
13. Deadmans B/R	13. Tusayan Polychrome plus Citadel Polychrome
14. Middleton B/R	14. Unidentified Mesa Verde White Ware, Crushed Rock Temper
	15. Unidentified Mesa Verde White Ware, Sherd Temper
	16. Unidentified San Juan Red Ware

TABLE VII - 14

Results of Discriminant Analysis in Classifying
the 47 Sites Used in Seriation

Variables Used	Method Used	No. of Var.	Number Misclassified				Total % Correctly Classified
			Group I	Group II	Group III	Group IV	
14 DECORATED TYPES	Direct	14	0	0	0	0	100
	Wilks' Stepwise	9	0	0	0	0	98
	Mahal. Stepwise	11	0	2	0	0	96
16 TYPE AND WARE CLASSES	Direct	16	0	3	1	1	89
	Wilks' Stepwise	10	1	3	0	1	89
	Mahal. Stepwise	12	1	3	0	1	89

TABLE VII - 15. Classification of 32 Pueblo Assemblages (1972-74 Quadrat Survey),
Using Discriminant Analysis

Site No.	14 Decor. Types Input			16 Types/Ware Classes Input			Final Classification Decision
	Direct	Wilks	Mahal.	Direct	Wilks	Mahal.	
H3-1	--	--	--	1	1	1	1
H8-3	2	2	2	2	2	2	2
U1-1	4	3(4)	4	4	3	4	/4/
U2-6	1	2(1)	1	2	3	3	/3?/
U4-6	2	2	2	4	4	4	/1,2/
U5-2	2	2	2	2	2	2	2
U6-2	2	2	2	2(1)	1(2)	1(2)	/2/
W4-7	3	3	3	3	3	3	3
W11-1	4	3	3	3	3	3	/3/
W11-3	3	3	3	3	4	3	/3/
W11-3A	3	3	3	3	4	4	/3/
W12-7	3	3	3	3	3	3	3
W16-3	4	4	4	4	4	4(3)	3
W16-6	2	2	2	2	2	2	2
W17-1	1	1	1	1	1	1	1
N8-3	3	3	3	3	3	3	3
N9-1	3(4)	4	3(4)	4	4	4	/4/
N10-4	4	4	4	4	4	4	4
N11-2	3	3	3	3	3	3	3
N11-12	1	1	1	1	1	1	1
B3-9	1	1	1	1	1	1	1
B3-10	2	2	2	2	2	2	2
B4-1	2	2	2	1	1	1	/1,2,4/
B8-4	2	2	2	1	1	1	/1,2,4/
B11-8	4	4	4	4	4	4	4
B12-4	1	1	1	1	1	1	1
B12-8	3	3	3	3	3	3	3
B13-3	3	3	3	3	3(2)	3	3
B16-3	2(1)	1	1(2)	1	1	1	/1/
B17-2	3	3	3	3	3	3	3
B21-2	4	4	4	4	4	4	/2,3,4/
B22-3	1	1	1	1	1	1	1

() Another group (phase) assignment also possible, according to discriminant function.

/ / Final classification decision based on inspection.

TABLE VII - 16.

Placement of Non-seriated Sites
by Use of Discriminant Analysis

<u>Phase</u>	<u>Group</u>	<u>1972-74 Quadrat Survey</u>	<u>1973-74 Canyon Surveys</u>
Redhouse	I	7	16
Woodenshoe	II	5	4
Windgate	III	11	1
Clay Hills	IV	4	0
	Indeterminate or Multiple	5	1
Totals		32	22

TABLE VII - 17. Classification of 22 Pueblo Assemblages (1973-74 Drainage Canyon Inventory and Collection), Using Discriminant Analysis

Site No.	14 Dec. Types Input			16 Types/Ware Classes Input			Final Classification Decision
	Direct	Mahal.	Wilks	Direct	Mahal.	Wilks	
WC.3.1	1	1	1	1(2)	2(1)	2(1)	/1/
WC.9.4	1	1	1	2	2	2	/1/
WC.27.2	1	1	1	1	1(2)	1(2)	1
WC.29.1	1	1	1	1(2)	2(1)	2(1)	/1/
WC.31.3	1	1	1	1	1(2)	1(2)	1
HC.12.5	1	1	1	2(1)	2	2	/1/
HC.15.1	1(2)	1(2)	1(2)	1	1	1	1
HC.15.2	3	3	3	3	3	3	/2?/
BC.6.1	1	1	1	2(1)	2	2	/1/
BC.9.2	1	1	1	1	1(2)	1(2)	1
BC.16.3	2	2	2	2	2	2	2
BC.28.1	1	1	1	2	2	2	/1/
BC.30.2	2	2(3)	2	2	2(3)	2(3)	2
NC.7.3	1	1	1	1	1	1	1
NC.17.2	2	2	2	2	2(1)	2	2
NC.27.1	2	2	2	2	2	2	2
NC.27.2	1	1	1	1	1	1	1
NC.27.5	1	1	1	1	1	1	1
UC.10.1	1(2)	1(2)	1(2)	2(1)	1(2)	1(2)	/1/
UC.11.1	1(2)	1	1(2)	1(2)	2(1)	2(1)	/1/
UC.10.4	1	1	1	2(1)	2(1)	2(1)	/1/
UC.13.1	3	3	3	3	3	3	3

() Another group (phase) assignment also possible, according to the discriminant analysis.

/ / Final classification decision based on inspection.

Table VII-18

TREE RING DATES RELEVANT
TO PUEBLO PHASES

<u>Site, Feature</u>	<u>Tree Ring Data</u>	<u>Ceramic Group</u>
VGG 4 - 3 Feature G	987 fp - 1067 + V	IV (III?)
B 3 - 7 FEA A FEA B	1121 p - 1207 VV 1121 p - 1210 B	III
N 4 - 2 FEA A	984 p - 1181 V	III
B 8 - 2	1046 - 1118 VV 935 + p - 1107 + VV	IV
Moon House Structure 17 Structure 1 (Many cutting dates in 1250's & 1260's)	1267 ++ B 1268 + B	I
GG 69 - 15 Feature I	1068 - 1138 v	(?)
VGG 6 - 3 Feature A	877 fp - 1065 VV	IV
VGG C10 - 1 Structure 6	1155 - 1248 B	I
VGG C10/114 Structure 1 Structure 2 Structure 3	1038 [±] p - 1137 VV 1042 - 1211 ++ VV 0878 - 1139 ++ VV	I
VGG C14 - 1 Room 1	1000 - 1136 ++ B	I
N C. 7.3 Structure 3 Structure 2 Structure 4	1034 p - 1203 VV 1075 - 1195 + VV 1845 p - 1196 B	I
N C. 17.2 FEA. G FEA. E FEA. J FEA. H (6 cutting dates between 1180 & 1225 only 1 after that)	1083 - 1259 B 1034 - 1255 + VV 1173 - 1247 VV 1128 p - 1228 V	II

TABLE VII - 19

DISTRIBUTION AND ABUNDANCE OF PUEBLO II/III ARTIFACT TYPES (93 SITES)

Type No.	Name	Total Number	Total Number of Sites Present
1	Flake Scraper	603	65
2	Retouched Flake	131	24
3	Steep Angle Utilized Flake	981	65
4	Narrow Angle Utilized Flake	1473	75
5	Bifacial Resharpener or Thinning Flake (analyzed with other debitage categories)		
6	Bifacially Retouched Flake	35	20
7	Graver	34	16
8	Snapped Denticulate	243	46
9	Flaked Denticulate	44	21
10	Core Scraper	32	14
11	Biface Fragment	127	38
12	Large Point Fragment	21	12
13	Small Point Fragment	19	12
14	Jumbo Corner-Notched Point	2	2
15	Large Corner-Notched Straight Base	9	6
16	Large Corner-Notched Round Base	2	1
17	Large Side-Notched Point	3	3
18	Small Corner-Notched; Barbed Point	7	7
19	Small Corner-Notched; Broad Base Point	4	4
20	Triangular Point	12	9
21	Desert Side-Notched Point	13	9
22	Small Shallow Side-Notched or Stemmed Point	5	3
23	Large Knife	49	24
24	Small Knife	33	14
25	"T" Drill	17	12
26	Other Drill	35	14
27	Drill Fragment	14	10
28	Irregular Hammerstone	266	47
29	Pebble Hammerstone	152	45
30	Hammerstone Fragment	328	39
31	Chopper	13	10
32	Core	311	54 (also treated in debitage)
33	Mano	228	50
34	Metate	99	36
35	Miscellaneous groundstone	75	15
36	Gizzard stone	299	28
37	Miscellaneous artifacts	00	00

TABLE VII - 20

ARTIFACTS USED IN PUEBLO PRELIMINARY R-MODE ANALYSIS

	<u>R-Mode</u>	<u>Original Type Numbers</u>
1.	Flake Scraper	1
2.	Retouched Flake	2
3.	Steep Angle Utilized Flake	3
4.	Narrow Angle Utilized Flake	4
5.	Bifacially Retouched Flake	6
6.	Graver	7
7.	Snapped Denticulate	8
8.	Retouched Denticulate	9
9.	Core Scraper	10
10.	Biface Fragment	11
11.	Large Point Fragment	12
12.	Small Point Fragment	13
13.	Large Point	14 + 15 + 16 + 17
14.	Small Point	18 + 19 + 20 + 21 + 22
15.	Large Knife	23
16.	Small Knife	24
17.	T Drill	25
18.	Other Drill	26
19.	Drill Fragment	27
20.	Irregular Hammerstone	28
21.	Pebble Hammerstone	29
22.	Hammerstone Fragment	30
23.	Chopper	31
24.	Core	32
25.	Mano	33
26.	Metate	34
27.	Miscellaneous groundstone	35
28.	Miscellaneous artifact	37

TABLE VII-21

CONDENSED Q-MODE TOOL TYPES

<u>Q Mode</u>	<u>Original Type Number</u>
1. Flake Scraper	1
2. Retouched Flake	2
3. Steep Angle Utilized Flake	3
4. Narrow Angle Utilized Flake	4
5. Bifacially Retouched Flake	6
6. Graver	7
7. Snapped Denticulate	8
8. Retouched Denticulate	9
9. Chopper-scraper	10 + 31
10. Point Fragment	12 + 13
11. Point	14 - 22
12. Large Knife	23
13. Small Bifaces and Fragments	24 + 11
14. T-drill	25 + 27
15. Other Drill	26
16. Irregular Hammerstone	28
17. Pebble Hammerstone	29
18. Hammerstone Fragment	30
19. Mano	33
20. Metate	34
21. Miscellaneous Groundstone	35
22. Miscellaneous Artifacts	37

TABLE VII - 22
SUMMARY OF FURTHEST NEIGHBOUR CLUSTERS,
PUEBLO II/III

(1/10% Medians)

	Cluster I	Cluster II	Cluster III	Cluster IV	Cluster V
Flake Scrapers	158	74	66	75	0
Retouched Flakes	41	0	12	21	0
Steep Angle Utilized Flakes	97	319	90	186	253
Narrow Angle Utilized Flakes	327	342	122	221	94
Bifacially Retouched Flakes	11	0	13	0	0
Gravers	0	0	5	0	0
Snapped Denticulates	62	13	18	30	0
Retouched Denticulates	8	0	0	8	0
Point Fragments	0	0	5	0	0
Points	6	8	18	0	0
Large Knives	9	0	0	0	38
Small Bifaces and Fragments	52	13	32	32	0
T Drills	0	0	0	0	0
Other Drills	0	0	19	0	0
Chopper Scrapers	7	0	0	0	0
Irregular Hammerstones	17	34	45	92	149
Pebble Hammerstones	26	8	48	37	72
Hammerstone Fragments	39	18	50	82	0
Manos	10	33	161	56	64
Metates	5	7	40	17	0
Misc. Groundstone	0	0	7	0	0
Misc. Artifacts	12	7	40	23	149
n in Cluster	16	17	4	10	4
Median Number of Tools	104	71	62	51	20

TABLE VII - 23

PUEBLO ARCHITECTURE, LARGE SITES

Site	Cluster	Masonry	Slabs	Jacal	Depression	Hearth	Cist	Ash Hearth	Rooms	Total Structural Area	Trash Nidden	Habitation	Comments
B1-1	I	+	+	+	-	+	-	-	?	10	24	+	
B1-5	II	-	+	-	-	?	?	-	-	1	-	-(?)	Only 2 SS slabs in B-5, 5a & 6 but reinspection habitation(?)
B3-7	I	-	+	+	+	?	+	-	2	55	?	+	Pithouse and habitation
B3-10A	II	+	+	+	+	+	-	-	4	50+	80	+	Pithouse and habitation
B4-4	-	-	+	-	-	-	-	+(3)	?	8	-	?	Possible habitation
B5-2	I	-	+	-	-	-	+	+	1	28	100	+	Possible pithouse
B6-3	I	-	+	+	-	-	+	-	1	11	-	+	
B6-4	I	+	+	-	-	-	-	+	1	26	10+	+	
B10-7	III	-	+	+	-	-	-	-	?1	15?	40	+	Habitation feature not really found--bulldozer damage
B11-8	IV	-	+(3)	-	-	-	+	-	1-3	24	30	+	2 habitation
B12-1	I	+(6)	+(29)	+	-	+(15)	+(7)	+(6+)	29+	115+	10,000	+	Lots and lots
B14-2	IV	+	+(2)	+	-	+	-	+	1	10	20	+	
B15-7	I	+	+(2)	-	-	+(2)	-	+(4)	2+	20	50	+	
B16-1	I	+	+(3)	+	-	+	+	+(4)	2+	44	100	+	
B16-3	I	+	-	-	-	-	-	-	1?	12	?	+	
B17-1	IV	+(4)	+(4)	+	-	-	1	-	8	69	50	+	No obvious kiva
B17-2	I	+	-	-	-	-	-	-	3	20-40	-	+	
B18-3	IV	-	+(6)	+	-	+(3)	+(1)	12	2+?	25	50	+	
B19-1	I	+	+(7)	+	-	+(3)	+(2)	-	3	28	64	+	
B21-10	III	-	+	-	-	+(1)	-	3	-	1	3	-(+)	No habitation originally, habitation upon reinspection
B22-2	I	-	+(3)	+	-	-	+(2)	1	1	19	150	+	
B22-3	V	-	+(2)	-	+(?)	+	-	+(lots)	2+	23	60	+	Kiva?
B3-1	I	-	+	-	-	+	-	+(20)	-	1	40	-(?)	No habitation originally, Reinspection habitation ?
B1-1	V	-	+	-	-	-	-	-	?	?+?	-	?	Possible slab habitation struct.
B2-6	II	-	+	-	-	-	+	-	-	1	-	-(?)	No habitation originally Reinspection habitation ?
B4-3	IV	+(3)	+(10)	+	+	?	+(3)	+(14)	10+	106	220	+	Kiva present
B6-1	IV	-	+(2)	+	-	-	-(1)	-	3	35	50	+	
B6-3	IV	-	+(1)	+	+	-	-	-	4+	55	40	+	Kiva present
B7-2	IV	-	-	-	-	-	-	-	-	-	-	-	
B7-9	III	-	+(2)	+	-	+(1)	-	-	1	13	2	+	
B9-2	II	-	+(1)	-	-	+(1)	-	-	-	1	-	-	
B9-3	V	-	+(1)	-	-	+(1)	-	-	-	1	-	-	Hearth just outside quad
B9-5	II	-	+(1)	-	-	+(1)	-	+(1)	-	1	1	-	
B9-6	V	-	-(?)	-	-	-	(?)	+(2)	-	-	-	-	Possible cist outside quad
B4-2	II	+	-	+	-	-	+(4)	-	2	36	60	+	
B4-6	II	+	+	-	-	-	+	-	1-2?	17	100	+	Habitation not well preserved
B8-3	IV	-	-	-	-	-	-	-	-	-	30	-	
B10-2	II	-	+(1)	+	+	+	+	-	2?	36	400	+	Small prudden unit
B11-1	II	-	+	-	-	+	?	+(2)	-	1+	-	?	Most likely not habitation?
B11-2	II	-	-	-	-	-	+	-	-	-	20	-	
B11-3	II	+	+(2)	-	-	+	-	+	3	24	80	+	
B2-1	II	+	+(3)	-	-	+	+	+(1)	1+	10+?	150	+	
B2-6	II	-	+(2)	-	+	-	+(1)	-	1	26	25	+	"Pithouse" and kiva

W2-8	III		+(2)	+(3)	-	+(1)	-	+(1)	-	21	25	-	1
W2-8	III	+(2)	+(3)	-	+(1)	-	+(1)	-	+2	25	-	+	
W4-4	I	-	+(1)	+	-	+(1)	-	+(5)	?	1	6	?	Might be habitation
W4-7	I	-	+(2)	+	-	+(1)	+(1)	-	1+	2	12	+	
W6-4	II	+(2)	-	-	-	-	-	-	2?	40	10	+	A dam also
W7-4	II	-	+(2)	-	-	-	+(1)	+(5)	1?	22	60	+	Probable habitation
W12-4	II	+(1)	+(4)	+	+(2)	+(1)	-	15	8+	108	115	+	1 kiva 1-3 pithouses 4-7 masonry rooms
W12-7	II	-	+(3)	+	-	+(1)	+(1)	-	1+	18	-	+	
W16-3	IV	-	+	-	-	?	?	-	?	72	-	?	Not much, possibly not habitation
W17-1	I	-	+(1)	-	-	-	+(?)	-	?	10	-	?	Possibly cists or habitation

	<u>Architectural Criterion</u>	<u>Architectural/Artifactual Criteria</u>
Total	35 definite habitations	39 habitations (35 definite, 4 probable)
	11 non-habitations	5 problematical habitation
	6 questionable	8 L.A.S. (all primary lithic reduction sites)
	<u>52</u>	<u>52</u>

TABLE VII - 24

CLUSTER V VERSUS OVERALL;
 VARIABLES MEASUREING LITHIC TECHNOLOGY

		% OF TOOLS		% OF DEBITAGE					
CLUSTER		Total Hammerstones	Cores	Primary Flakes	Secondary Flakes	Tertiary Flakes	Debris (Shatter)	Raw Material	Bifacially Resharp. Flakes
V	Median	18.0	15.0	12.0	17.0	8.5	44.0	3.5	0.0
(n=4)	Mean	18.3	14.3	11.8	17.3	8.0	45.3	15.3	1.7
OVERALL									
	Median	11.0	5.0	7.0	17.9	10.4	56.6	0.7	0.6
(n=51)	Mean	12.7	6.5	8.6	18.5	12.6	54.9	3.4	2.5

TABLE VII - 25

TEMPORAL AFFILIATION OF CLUSTERS AND DIMENSIONS

(n=51)

	WINDGATE	CLAY HILLS	WOODENSHOE	REDHOUSE	OTHER*
CLUSTER I	1	7	2	6	0
II	3	7	1	4	2
III	2	1	0	1	0
IV	3	3	3	0	1
V	1	0	0	1	2
TOTALS	<u>10</u>	<u>18</u>	<u>6</u>	<u>12</u>	<u>5</u>
UP	4	8	6	8	0
DIMENSION I					
DOWN	6	10	0	4	5
LEFT	7	8	4	4	2
DIMENSION II					
RIGHT	3	10	2	8	3

* OTHER INCLUDES SITES EITHER UNASSIGNED OR ASSIGNED TO 2 PHASES

TABLE VII - 26

PUEBLO ARCHITECTURE FROM SMALL SITES (n=43)

SITE	Masonry	Slabs	Jacal	Depression	Hearth	Cist	Ash Hearth	Rooms	Total Struct. Area	Trash/Hidden	Habitation	W Lithic Tools	Comments
B 1 - 4	-	-	-	-	-	-	-	0	0	0	-	3	
B 1 - 6	-	+	-	-	-	-	-	0	0	0	-	12	Should be joined with B1-5
B 1 - 7	-	-	-	-	-	-	-	0	0	0	-	2	
B 3 - 4	+	+	+	-	-	1	2	1	5	1	+	0	
B 3 - 9	-	?	-	-	-	-	-	0	0	0	-	1	Disturbed
B 3 -10	+	+	+	-	-	-	-	1-2?	6	-	+	7	Part of B3-10A
B 4 - 3	-	-	-	-	-	-	-	0	0	0	-	3	
B 7 - 4	-	-	-	-	-	-	?	0	0	0	-	1	
B 7 - 5	-	-	-	-	-	-	-	0	0	0	-	10	
B 7 - 6	-	+	+	-	+	-	-	0	1	0	-	7	Slate Hearth with Jacal
B 8 - 2	-	-	-	-	-	-	-	0	0	25	-	12	Same site as B10-2
B 8 - 3	-	-	-	-	-	-	+	0	0	0	-	1	
B 8 - 4	-	-	-	-	-	-	-	0	0	0	-	11	
B 9 - 3	-	+	-	-	?	?	2	0	1	2	-	7	
B10 - 2	-	+	+	+	-	-	-	1	10?	2	+	2	Continuous with B8-2
B12 - 4	-	-	-	-	-	-	-	0	0	0	-	3	
B12 - 7	-	-	-	-	-	-	-	0	0	0	-	5	
B12 - 5	-	-	-	-	-	-	-	0	0	0	-	5	
B15 - 1	-	-	-	-	-	-	+	0	0	0	-	7	
B15 - 6	-	+	-	-	+	-	-	0	1	-	-	1	
B16 - 9	+	+	-	-	-	-	-	1-2	12	0	+	1	Bulldozer disturbed
B19 - 2	-	+	-	-	?	?	-	0	1	0	-	6	
B21 - 4	-	-	-	-	-	-	-	0	0	-	-	3	
B21 -12	-	?	+	-	-	-	+	0	0	-	-	7	1 piece of Jacal Some possible slabs
B22 - 6	+	-	-	-	-	-	-	1	6	-	-	1	Masonry grainery
H 8 - 3	-	+	-	-	2	1	1	0	2+	1	-	10	Possibly other structures as well
H 14- 1	-	+	-	-	?	?	-	0	2	0	-	11	
U 4 - 6	-	+	-	-	1+	-	-	0	1	0	-	11	
U 5 - 4	-	-	-	-	-	-	-	0	0	0	-	3	
N 2 - 1	-	+	-	-	-	1	-	0	.5	0	-	8	
N 9 - 2	-	+	-	-	1	-	-	0	1	0	-	11	
N 9 - 3	-	-	-	-	-	-	-	0	0	0	-	9	
N11 - 8	-	-	-	-	-	-	-	0	0	0	-	5	
N11 -12	-	+	+	-	-	1	-	1	13	0	?	7	Could be 2 large storage cists
W 2 - 7 & 7A	-	-	-	-	-	-	-	0	0	0	-	1	
W 4 - 3	-	-	-	-	-	-	-	0	0	0	-	1	
W 4 - 5	-	+	-	-	+	-	-	0	.5	0	-	4	
W 6 - 3	-	-	-	-	-	-	-	0	0	0	-	1	
W 7 - 2	-	+	-	-	-	1	-	0	5	0	-	1	
W11 - 1	-	+	-	-	1	-	1	0	1	0	-	10	
W12 - 1	-	+	-	-	-	1	-	0	4	0	-	4	
W12 - 8	-	+	-	-	1	-	-	0	.5	0	-	3	
W16 - 1	-	-	-	-	-	-	-	0	0	0	-	1	Disturbed by road

TABLE VII - 27

COMPARISON OF SMALL PUEBLO LIMITED
ACTIVITY SITES WITH "LARGE" PUEBLO SITES

TOOL TYPE	SMALL L.A.S. SITES (n=35)				LARGE SITES (n=51)			
	1/2	MEDIAN	3/4	MEAN	1/2	MEDIAN	3/4	MEAN
Flake scraper	0	0	20	15.5	5	10	15	10.5
Retouched flake	0	0	0	1.5	0	2	4	2.3
Steep utilized	0	0	33	19.8	9	16	32	19.8
Narrow utilized	0	10	28	16.8	21	28	37	28.2
Bifacially ret. flake	0	0	0	0	0	0	1	0.8
Gravers	0	0	0	0.4	0	0	1	0.6
Snapped denticulates	0	0	0	7.7	0	3	5	4.0
Retouched denticulates	0	0	0	0.3	0	0	2	1.1
Points fragments	0	0	0	0.4	0	0	1	0.7
Points	0	0	0	9.1	0	0	1	1.2
Large knives	0	0	0	0.5	0	0	1	1.0
Small bifaces and frag.	0	0	0	4.2	0	2	6	3.3
"T" Drills	0	0	0	0	0	0	1	0.8
Other drills	0	0	0	0.3	0	0	0.6	0.6
Chopper/scrapers	0	0	0	4.3	0	0	1	0.7
Irregular hammerstones	0	0	0	2.5	1	3	9	6.0
Pebble hammerstones	0	0	0	7.2	0	2	5	3.2
Hammerstone fragments	0	0	0	1.8	0	4	8	4.4
Manos	0	0	0	6.9	1	4	7	4.6
Metates	0	0	0	2.7	0	1	3	2.1
Misc. groundstone	0	0	0	0.5	0	0	1	0.9
Misc. artifacts	0	0	0	1.8	0	1	4	2.8

TABLE VII - 28

COMPARISON OF DEBITAGE BETWEEN 35 SMALL
LIMITED ACTIVITY PUEBLO SITES WITH 51 LARGE SITES

LIMITED ACTIVITY SITES

Mean percent, weighting
each site equally
(n=35)

6.6 15.5 14.5 40.1 4.7 4.6

As total of assemblage,
weighting each lithic
equally
(n=35)

6.4 18.4 19.8 47.4 4.2 3.9

51 "LARGE" PUEBLO SITES

Mean percent, weighting
each site equally.

8.6 18.5 12.6 54.9 3.4 2.5

TABLE VII - 29
PUEBLO SITES WITHOUT LITHICS
(n = 9)

SITE	SHERDS	COMMENTS
B 3 - 3	92	No features
B13 - 2	9	No features
B15 - 8	6	No features
B22 - 4	0	Masonry grainery
B22 - 5	0	Masonry grainery
B22 - 7	0	Cist (in ledge).
U 2 - 1	2	A single slab hearth with a small trash.
N 3 - 2	0	A single "boulder room" 6m ² in overhang.
N 8 - 2	37	No features

Table VII-30

Sites with Mixed Pueblo Components that
are Extensions of other Pueblo Sites

<u>SITE</u>	<u>EXTENSION OF</u>
B 1-5A	Sites B 1-5 and B 1-6
B 6-5	Site B 3-8
W 9-2A	Outside quadrant portion of site W 9-2
W 11-3A	Outside quadrant portion of site W 11-3
W 15-1A	Outside quadrant portion of site W 15-1

Table VII-31
Pueblo Sites with Substantial
Basketmaker II Grand Gulch Components

(n=13)

<u>SITE</u>	<u>PUEBLO SHERDS</u>	<u>COMMENTS ON PUEBLO FEATURES</u>
B 1-2	15	No associated features
B 4-1	21	No associated features
B 7-2	12	No associated features
B 11-4	8	No associated features
B 21-2	14	No features on site
N 4-1	26	Some ash hearths likely Pueblo
N 10-4	14	One sandstone slab hearth
W 9-2 & 2A	334	Well localized masonry habitation structure, 6 M ²
W 13-1	26	Only one trash/midden
W 15-1 & 1A	21	Boulder wall in Rockshelter, campsite
W 15-2	4	Boulder wall in Rockshelter, campsite
W 16-6	99	1 sandstone hearth plus midden. A possible habitation although no jalal was found.
H 13-1	15	All sherds found in a sandstone slab hearth at edge of site. No lithics associated with hearth.

TABLE VII - 32

PUEBLO SITES WITH SUBSTANTIAL
BASKETMAKER III MOSSBACKS COMPONENTS

	Pueblo Sherds*	BMIII Sherds	Masonry	Slabs	Jacal	Depression	Hearth	Cist	Ash Hearth	Rooms	Structural Area	Trash/Midden	Habitation	Comments
B 3 - 1	1175-1217	174-1217	-	+	+	-	+	+	+	?	?	+	+	
B 7 - 1	82- 94	125- 142	-	-	-	-	-	-	2	0	0	0	-	
B11 - 5	5- 7	10- 12	-	-	-	-	-	-	-	0	0	0	-	
B13 - 3	60- 190	431- 561	-	+	-	-	?	?	-	0	1	0	-	
B16 - 4	40- 89	76- 89	-	-	-	-	-	-	-	0	0	0	-	
U 2 - 2	54- 83	530- 559	-	-	-	-	-	-	-	0	0	0	-	
U 2 - 4	29- 32	54- 56	-	-	-	-	-	-	-	0	0	0	-	
U 5 - 2	52- 60	342- 360	-	-	-	-	-	-	-	0	0	0	-	
U 6 - 2	15	65	-	-	-	-	-	-	-	0	0	0	-	
N 4 - 3	20	18	+	-	-	-	-	-	-	1	2	0	-	Masonry grainery
N 4 - 5	359- 362	301- 304	+	+	+	?	+	?	-	1-3?	12-20	10+	+	
N 5 - 8	26	15	-	-	-	-	-	-	-	0	0	0	-	
N 9 - 1	21	61	-	-	-	-	-	-	-	0	0	0	-	
N11 -14	272- 289	4597-4614	-	-	-	-	-	-	-	0	0	0	-	
W11 - 3 & 3A	190- 192	119- 121	+	+	+	+	1	2	6	4	57	32	+	Prudden Unit
W16 - 4	10- 11	17- 18	-	-	-	-	-	-	-	0	0	0	-	
1 + 4 - 1	13- 14	16- 17	-	?	-	-	?	-	?	0	1	0	-	
1 +14 - 2	267	178	-	+	-	-	?	1+	2	0	3+	?	-	

(n = 18)

* Estimates of Pueblo/Basketmaker III sherds were calculated twice where indefinite graywares were present.

TABLE VII - 33

SUMMARY OF PUEBLO QUADRAT SITE CLASSIFICATION

	T A B L E					
	VII-23	-26	-29	-31	-31	TOTAL
Habitations	39	3	0	1	0	47
Problematic Habitations	5	1	1	1	0	8
Limited Activity Sites						
Lithic Reduction	8	0	0	0	0	8
Grainery	0	1	3	0	0	4
Other	0	35	5	11	14	65
<hr/> TOTAL L.A.S.	<hr/> 8	<hr/> 36	<hr/> 8	<hr/> 11	<hr/> 14	<hr/> 77
						<hr/>
					Grand Pueblo Sites	132

Table VII-34

Pueblo Drainage Canyon Sites

	UGG	BULL	<u>INVENTORIED</u>		WJ	TOTAL
			NR	HS		
Habitation	12	26	10	5	17	70
Non-Habitation	16	31	25	8	24	104
"Specials"	0	5	1	1	0	<u>7</u>
						181
			<u>COLLECTED</u>			
Habitation	6	5	5	5	5	26
Non-Habitation	6	5	8	8	5	32
"Specials"	0	5	1	1	0	<u>7</u>
						65