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APPENDIX 6:
EXTRA DATA ON CAMISAS (TUNICS)

1. Decoration types

Type Camisa	ChenChen 1988			ChenChen 1995			La Cruz Tiw/I-T/C			La Cruz Chiribaya			La Cruz unknown			El Descanso			Algodonal Ladera			Boca Rio
	C	A	?	C	A	?	C	A	?	C	A	?	C	A	?	C	A	?	C	A	?	
1A			1	1	1	1	2	8		2			3	10		7	20		2	4	10	
♂							1	2		1			1									
♀							1	5					1			4						
?			1	1	1	1		1		1			1	10		3	20		2	4	10	
1Aa*									1													
?									1													
1Ad								1												1		
♂																				1		
♀								1														
?													1				1					
2A													1									
♂													1									
2Sa*													1									1
3Ab	2	1				3		2	1								3			1	4	
♀								2														
?	2	1				3			1								3			1	4	
3Ac		1			1	1																
?		1	0		1	1																
3Adb*		1							1											1	1	
?		1							1											1	1	
3Adc*								1									2					
♂								1														
?																	2					
4A								1		7		1			4							
♀								1		2												
?										5		1			4							
4Aa*		1								1					1						4	
?		1								1					1						4	
4Ab*											1		1		2					1		
♂											1											
?													1		2					1		
4Abd*																	2					
?																	1					
4B																					1	
?																					1	
4Bd*																					1	
?																					1	

(Continued table)

Type Camisa	ChenChen 1988			ChenChen 1995			La Cruz Tiw/I-T/C			La Cruz Chiribaya			La Cruz unknown			El Descanso			Algodonal Ladera			Boca Rio
	C	A	?	C	A	?	C	A	?	C	A	?	C	A	?	C	A	?	C	A	?	
4BW										2	1											
♂																						
♀																						
?																						
5A		1	1			2		1	2									2				
♀																						
?		1	1			2			2									2				
5Ad*					1	1			1													
?					1	1			1													
5Aa*		1							1													
?		1							1													
5AB																		5				
?																		5				
5B								1									1	3				
♀								1									1					
?																		3				
5Bd*																		1				
?																		1				
6A	1							1	1	1	1							1				
♂																						
♀																						
?	1									1								1				
6Ad*								1											1			
?								1											1			
unknown			1			1									1						5	
?			1			1									1						5	
totals:	4	0	8	2	0	11	2	17	9	13	3	1	1	5	18	0	8	53	2	9	26	1
total																						193

Table 1. Camisa types, subdivided by age category (Bold numbers summarize the data according to age (C = child; A = adolescent / adult; ? = unknown); numbers in italics specify the gender, if known)

2. Structure

A number of secondary structures have been applied within the fabric of warp-faced camisas. Their main objective was to widen the camisa at shoulder level among the Chiribaya specimens, to change the colour in the outer stripes of Ilo-Tumilaca/Cabuza camisas, or in case of the isolated joins, to embellish the fabric with vertical stripes.

secondary structure	Chen Chen 1988/1995		La Cruz I-T/C		La Cruz Chiribaya		La Cruz unknown		El Descanso		Algodonal Ladera	
	n =	%	n =	%	n =	%	n =	%	n =	%	n =	%
dovetail over single weft	—	—	—	—	3	17.6%	2	8.7%	7	11.5%	2	5.4%
dovetail over two wefts	—	—	—	—	—	—	—	—	1	1.6%	—	—
isolated join or warp-darned	6	24.0%	—	—	—	—	—	—	3	4.9%	1	2.7%
interlocked with warp & weft	—	—	—	—	2	11.8%	—	—	—	—	—	—
woven through weft shed	—	—	—	—	3	17.6%	—	—	—	—	—	—
cannot determine	—	—	1	3.4%	—	—	3	13.0%	1	1.6%	—	—
no secondary structure	19	76.0%	28	96.6%	9	52.9%	18	78.3%	49	80.3%	34	91.9%
<i>Total</i>	25	100.0%	29	100.0%	17	100.0%	23	100.0%	61	100.0%	37	100.0%

Table 2. Secondary structures applied in camisas

Structure lateral seam	Chen Chen 1988/1995		La Cruz I-T/C		La Cruz Chiribaya		La Cruz unknown		El Descanso		Algodonal Ladera	
	n =	%	n =	%	n =	%	n =	%	n =	%	n =	%
no stitches remain	1	4.0%	—	—	—	—	—	—	2	3.3%	5	13.5%
overcast spaced	6	24.0%	15	51.7%	13	76.5%	15	65.2%	36	59.0%	11	29.7%
overcast solid	—	—	1	3.4%	—	—	—	—	—	—	—	—
figure-8 stitch	2	8.0%	5	17.2%	—	—	5	21.7%	7	11.5%	9	24.3%
overcast cross stitches	—	—	—	—	—	—	—	—	2	3.3%	—	—
running back stitch	—	—	—	—	—	—	1	4.3%	—	—	—	—
1 file cross knit loop stitch	—	—	—	—	—	—	—	—	1	1.6%	1	2.7%
plaque of cross knit loop	10	40.0%	5	17.2%	—	—	—	—	5	8.2%	7	18.9%
overcast & figure 8	—	—	1	3.4%	1	5.9%	—	—	—	—	—	—
overcast & running stitch	—	—	—	—	1	5.9%	—	—	—	—	—	—
overcast & cross knit loop	—	—	—	—	—	—	—	—	1	1.6%	—	—
too fragmented	6	24.0%	2	6.9%	2	11.8%	2	8.7%	7	11.5%	4	10.8%
<i>total</i>	25	100.0%	29	100.0%	17	100.0%	23	100.0%	61	100.0%	37	100.0%

Table 3. Techniques used to close the lateral seams of camisas

Structure arm opening	Chen Chen 1988/1995		La Cruz I-T/C		La Cruz Chiribaya		La Cruz unknown		El Descanso		Algodonal Ladera	
	n =	%	n =	%	n =	%	n =	%	n =	%	n =	%
unaltered	3	12.0 %	6	20.7 %	3	17.6 %	4	17.4 %	15	24.6 %	5	13.5 %
overcast spaced	—	—	1	3.4 %	—	—	—	—	2	3.3 %	—	—
overcast solid	1	4.0 %	6	20.7 %	3	17.6 %	—	—	12	19.7 %	5	13.5 %
cross knit loop single file	3	12.0 %	2	6.9 %	2	11.8 %	1	4.3 %	—	—	4	10.8 %
cross knit looped double file	—	—	1	3.4 %	—	—	1	4.3 %	—	—	—	—
overcast & cross knit looped	1	4.0 %	4	13.8 %	7	41.2 %	1	4.3 %	6	9.8 %	2	5.4 %
doubled by running stitch	—	—	—	—	—	—	1	4.3 %	—	—	—	—
too fragmented to determine	17	68.0 %	9	31.0 %	2	11.8 %	15	65.2 %	26	42.6 %	21	56.8 %
<i>total</i>	25	100.0 %	29	100.0 %	17	100.0 %	23	100.0 %	61	100.0 %	37	100.0 %

Table 4. Techniques used to reinforce the arm selvage

Structure bottom reinforcement	Chen Chen 1988/1995		La Cruz I-T/C		La Cruz Chiribaya		La Cruz unknown		El Descanso		Algodonal	
	n =	%	n =	%	n =	%	n =	%	n =	%	n =	%
unaltered	6	24.0 %	14	48.3 %	7	41.2 %	4	17.4 %	15	24.6 %	7	18.9 %
overcast spaced	1	4.0 %	—	—	—	—	1	4.3 %	—	—	—	—
overcast solid	2	8.0 %	3	10.3 %	2	11.8 %	5	21.7 %	10	16.4 %	4	10.8 %
cross knit looped single	3	12.0 %	1	3.4 %	—	—	3	13.0 %	—	—	8	21.6 %
cross knit looped triple	—	—	—	—	—	—	—	—	—	—	1	2.7 %
overcast & cross knit loop	1	4.0 %	1	3.4 %	—	—	—	—	—	—	2	5.4 %
not preserved	12	48.0 %	10	34.5 %	8	47.1 %	10	43.5 %	36	59.0 %	15	40.5 %
<i>Total</i>	25	100.0 %	29	100.0 %	17	100.0 %	23	100.0 %	61	100.0 %	37	100.0 %

Table 5. Techniques used to reinforce the bottom selvage

Unique for La Cruz was the colour change of the reinforcement stitches covering the bottom selvage. The colour changes at the centre of the camisa, both at the front as at the back, and at the lateral sides. Such colour change occurred in one camisa with solid overcast stitches^[1], and in three specimens with cross-knit loop stitching.^[2] The colours used in three specimens are a shade of green (turquoise ‘35’ or mint ‘34’), with a shade of pale red (faded pink ‘91’ or faded red ‘23’). The colourful 5B camisa (#02568) was reinforced with Prussian blue (‘32’) and with mint green (‘34’).

1. Camisa type 4A (#99369, r/s) from La Cruz (1998).

2. Camisa type 4Aa (# 99338, r/s) from La Cruz (1998); Camisa type 1Ad (#99244, tomb 20) from La Cruz (1993); Camisa type 5B (#02568, tomb 15) from La Cruz (1993).

Structure neck selvage	Chen Chen 1988/1995		La Cruz I-T/C		La Cruz Chiribaya		La Cruz unknown		El Descanso		Algodonal Ladera	
	n =	%	n =	%	n =	%	n =	%	n =	%	n =	%
unaltered	3	12.0%	7	24.1%	10	58.8%	5	21.7%	15	24.6%	6	16.2%
overcast solid	1	4.0%	2	6.9%	1	5.9%	1	4.3%	2	3.3%	1	2.7%
cross knit looped single	5	20.0%	10	34.5%	—	—	1	4.3%	7	11.5%	7	18.9%
overcast & cross knit loop	—	—	4	13.8%	—	—	1	4.3%	5	8.2%	2	5.4%
too fragmented	16	64.0%	6	20.7%	6	35.3%	15	65.2%	32	52.5%	21	56.8%
<i>total</i>	25	100.0%	29	100.0%	17	100.0%	23	100.0%	61	100.0%	37	100.0%

Table 6. Techniques used to reinforce the neck opening

Structure base neck slit	Chen Chen 1988/1995		La Cruz I-T/C		La Cruz Chiribaya		La Cruz unknown		El Descanso		Algodonal Ladera	
	n =	%	n =	%	N =	%	n =	%	n =	%	n =	%
unaltered	3	12.0%	10	34.5%	10	58.8%	3	13.0%	8	13.1%	5	13.5%
solid overcast stitch	—	—	—	—	—	—	—	—	2	3.3%	—	—
1 file cross knit loop stitch	—	—	3	10.3%	—	—	—	—	9	14.8%	3	8.1%
2 files cross knit looped	—	—	2	6.9%	—	—	—	—	2	3.3%	2	5.4%
figure-8 stitch	—	—	—	—	2	11.8%	—	—	1	1.6%	—	—
blanket stitch	—	—	1	3.4%	—	—	—	—	—	—	—	—
plaque cross knit loop	1	4.0%	3	10.3%	—	—	1	4.3%	2	3.3%	2	5.4%
plaque horizontal satin	2	8.0%	3	10.3%	—	—	2	8.7%	—	—	3	8.1%
plaque zig-zag satin	—	—	—	—	—	—	—	—	2	3.3%	—	—
too fragmented	19	76.0%	7	24.1%	5	29.4%	17	73.9%	35	57.4%	22	59.5%
<i>Total</i>	25	100.0%	29	100.0%	17	100.0%	23	100.0%	61	100.0%	37	100.0%

Table 7. Techniques used to reinforce the base of the neck opening

3. Wear and repair evidence

A clear distinction must be made between damage of the fabric by wear, damage caused by the conditions in the tomb (such as soil contamination, body fluids and carbonisation), and especially damage to the fabric by looting activities: edges torn along a straight line in antiquity, often show long and fluffy element ends due to continued use, whereas a fabric that was torn by looters shows short elements in straight cuts. Typically, looters break the bundle open in the neck area, often ripping off the whole upper part or one shoulder, or the lower end of the mummy bundle, just below the ropes that tied the bundle together at the individual's feet.

Wear location	Chen Chen 1988/1995		La Cruz I-T/C		La Cruz Chiribaya		La Cruz unknown		El Descanso		Algodonal Ladera	
	n =	%	n =	%	n =	%	n =	%	n =	%	n =	%
apparently unworn	2	8.0 %	1	3.4 %	2	11.8 %	2	8.7 %	9	14.8 %	4	10.8 %
Opening:												
all around arm opening	—	—	—	—	—	—	—	—	3	4.9 %	2	5.4 %
base of armpit	1	4.0 %	—	—	—	—	—	—	—	—	—	—
all around neck slit	—	—	—	—	—	—	—	—	2	3.3 %	—	—
base of neck slit	—	—	—	—	1	5.9 %	1	4.3 %	—	—	2	5.4 %
arm & neck partial/ complete	—	—	—	—	—	—	—	—	3	4.9 %	1	2.7 %
bottom complete/partial	1	4.0 %	—	—	2	11.8 %	2	8.7 %	5	8.2 %	6	16.2 %
arm & bottom complete/ partial	—	—	1	3.4 %	—	—	—	—	2	3.3 %	—	—
neck & bottom complete/ partial	1	4.0 %	1	3.4 %	—	—	—	—	—	—	4	10.8 %
arm & neck & bottom complete	—	—	2	6.9 %	1	5.9 %	1	4.3 %	—	—	—	—
lateral side/embroidered plaque	1	4.0 %					—	—	1	1.6 %	2	5.4 %
Internal:												
top of shoulder	1	4.0 %	5	17.2 %	—	—	—	—	6	9.8 %	3	8.1 %
centre	—	—	—	—	—	—	—	—	2	3.3 %	—	—
top of shoulder & centre	—	—	2	6.9 %	1	5.9 %	1	4.3 %	2	3.3 %	1	2.7 %
Internal and openings:												
top shoulder & bottom	1	4.0 %	3	10.3 %	1	5.9 %	1	4.3 %	—	—	1	2.7 %
top shoulder & centre & bottom	—	—	3	10.3 %	—	—	—	—	—	—	—	—
whole upper part	1	4.0 %	4	13.8 %	2	11.8 %	2	8.7 %	—	—	1	2.7 %
all over	5	20.0 %	7	24.1 %	7	41.2 %	7	30.4 %	12	19.7 %	10	27.0 %
too fragmented to determine	11	44.0 %	—	—	—	—	6	26.1 %	14	23.0 %	—	—
<i>total</i>	25	100.0 %	29	100.0 %	17	100.0 %	23	100.0 %	61	100.0 %	37	100.0 %

Table 8. Locations of wear in camisas, subdivided by site

Repair technique	Chen Chen 1988/1995		La Cruz I-T/C		La Cruz Chiribaya		La Cruz unknown		El Descanso		Algodonal Ladera	
	n =	%	n =	%	n =	%	n =	%	n =	%	n =	%
apparently none	6	24.0 %	9	31.0 %	5	29.4 %	6	24.0 %	9	31.0 %	5	29.4 %
darning warp direction	6	24.0 %	6	20.7 %	1	5.9 %	6	24.0 %	6	20.7 %	1	5.9 %
darning weft direction	1	4.0 %	1	3.4 %	2	11.8 %	1	4.0 %	1	3.4 %	2	11.8 %
darning warp & weft direction	4	16.0 %	—	—	3	17.6 %	4	16.0 %	—	—	3	17.6 %
knotting of loose elements	—	—	—	—	3	17.6 %	—	—	—	—	3	17.6 %
darning & knotting	—	—	1	3.4 %	1	5.9 %	—	—	1	3.4 %	1	5.9 %
reseaming (incl. overcast)	—	—	1	3.4 %	—	—	—	—	1	3.4 %	—	—
darning & reseaming	2	8.0 %	7	24.1 %	1	5.9 %	2	8.0 %	7	24.1 %	1	5.9 %
knotting & reseaming	—	—	1	3.4 %	—	—	—	—	1	3.4 %	—	—
darning & knotting & reseaming	—	—	1	3.4 %	—	—	—	—	1	3.4 %	—	—
darning & patching	—	—	2	6.9 %	1	5.9 %	—	—	2	6.9 %	1	5.9 %
cannot determine	6	24.0 %	—	—	—	—	6	24.0 %	—	—	—	—
<i>total</i>	<i>25</i>	<i>100.0 %</i>	<i>29</i>	<i>100.0 %</i>	<i>17</i>	<i>100.0 %</i>	<i>25</i>	<i>100.0 %</i>	<i>29</i>	<i>100.0 %</i>	<i>17</i>	<i>100.0 %</i>

Table 9. Techniques of repair

Most repair work was done within the fabric itself, requiring darning techniques. Since all but one camisa were warp-faced, most darning was done in warp direction. The darning formed solid areas, or stripes of two to four lines of stitching warp direction applied at regular intervals. The high percentage (20 %) of warp darning all over the camisa surface found at Chen Chen, may in fact be of decorative nature, rather than repair. In the bottom area warp darning is common and may reach up to about 10 cm. The repair of the neck slit's base was quite common, usually by darning in weft direction or a combination of warp and weft darning was commonly applied.

4. Calculated values

Lay out	Chen Chen 1988-1995			La Cruz I-T/C			La Cruz Chiribaya			La Cruz unknown			El Descanso			Algodonal Ladera			Boca del Río		
	n =	FbCt	QScr	n =	FbCt	QScr	n =	FbCt	QScr	n =	FbCt	QScr	n =	FbCt	QScr	n =	FbCt	QScr	n =	FbCt	QScr
1A	4	15.8	5.0	11	19.5	4.2	2	20.5	5.0	12	21.8	5.3	24	20	4.9	16	22.1	5.1	—	—	—
1Aa*	—	—	—	1	19	4.5	—	—	—	—	—	—	3	19	5.3	—	—	—	—	—	—
1Ad	—	—	—	1	18	8.5	—	—	—	1	23	7.5	1	18.5	7.0	1	21	7.5	—	—	—
average 1	4	15.8	5.0	13	19.4	4.7	2	20.5	5.0	13	22	5.5	28	19.2	5.1	17	22.1	5.3	—	—	—
2A	—	—	—	—	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2Sa*	—	—	—	—	—	—	—	—	—	1	25	6.0	—	—	—	—	—	—	1	9	8.5
3Ab	6	21.7	7.0	3	20.8	7.0	3	—	—	—	—	—	3	22	6.0	5	22	7.5	—	—	—
3Ac	3	25.7	9.3	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3Adb*	1	21	8.0	1	20	8.5	1	—	—	—	—	—	—	—	—	2	20	8.5	—	—	—
3Adc*	—	—	—	1	18	7.5	1	—	—	—	—	—	2	29.5	9.3	—	—	—	—	—	—
average 3	10	22.8	7.8	5	20.1	7.2	5	—	—	—	—	—	5	25	7.3	7	21.4	8.3	—	—	—
4A	1	22	5.0	1	22	5.5	8	19.2	7.2	3	22.3	8.2	—	—	—	—	—	—	—	—	—
4Ad*	—	—	—	1	21	9.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4Aa*	—	—	—	—	—	—	1	18	7.5	2	22.3	7.0	9	19.8	7.3	4	20.8	7.6	—	—	—
4Ab*	—	—	—	—	—	—	1	10	4.5	3	16.7	6.0	2	14.5	5.5	1	18	7.0	—	—	—
4Abd*	—	—	—	—	—	—	—	—	—	—	—	—	1	26	10.5	—	—	—	—	—	—
4B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	25	9.0	—	—	—
4Bd*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	1	21	9.0	—	—	—
4BW	—	—	—	—	—	—	3	19.8	7.6	—	—	—	—	—	—	—	—	—	—	—	—
average 4	1	22	5.0	2	21.5	7.5	13	18.6	7.2	8	20.3	7.1	12	19.4	7.3	7	19.3	7.9	—	—	—
5A	4	29.3	9.1	3	22.5	8.3	—	—	—	—	—	—	2	19	7.5	—	—	—	—	—	—
5Ad*	2	26.5	9.5	1	25	7.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5Aa*	1	24	8.0	1	17	6.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5A/B	—	—	—	—	—	—	—	—	—	—	—	—	5	19.1	8.2	—	—	—	—	—	—
5B	—	—	—	1	32	10.5	—	—	—	—	—	—	4	19.3	9.2	—	—	—	—	—	—
5Bd*	—	—	—	—	—	—	—	—	—	—	—	—	1	20.5	10.5	—	—	—	—	—	—
5BW	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
average 5	7	27.1	9.0	6	23.6	7.0	—	—	—	—	—	—	9	19.5	8.9	—	—	—	—	—	—

Lay out	Chen Chen 1988-1995			La Cruz I-T/C			La Cruz Chiribaya			La Cruz unknown			El Descanso			Algodonal Ladera			Boca del Rio		
	n =	FbCt	QScr	n =	FbCt	QScr	n =	FbCt	QScr	n =	FbCt	QScr	n =	FbCt	QScr	n =	FbCt	QScr	n =	FbCt	QScr
6A	1	20	6.0	2	18.5	4.8	2	15	4.3	—	—	—	1	22	8.0	—	—	—	—	—	—
6Ad*	—	—	—	1	21	7.0	—	—	—	—	—	—	—	—	—	1	18	8.5	—	—	—
average 6	1	20	6.0	3	19.3	5.5	2	15	4.3	—	—	—	1	—	8.0	1	—	8.5	—	—	—
unknown	3	24.3	8.0	—	—	—	—	—	—	1	21	2.0	4	21.4	5.3	5	18.2	5.4	—	—	—
totals	25	22.6	7.4	29	21.3	6.2	17	18.4	6.6	23	21.4	5.6	61	20.7	6.1	37	21.1	6.5	1	9	8.5

Table 11. Camisa decoration types: their numbers (n), fabric counts (FbCt), and average quality scores (QScr)

Fabric count (the sum of warps/cm and wefts/cm) illustrates the fineness of a fabric: the higher the value, the denser the appearance of the fabric will be. The fabric counts of the colourful type 5 camisas range among the highest measured in this study: 33.0 (#02557, type 5A from Chen Chen) and 32.0 (#02568, type 5B from La Cruz). Nonetheless, the finest woven camisa is an embroidered type 3Abd camisa from El Descanso (#00051), woven in a natural beige ('o8') colour.

Quality scores express the number of decisions and the amount of labour involved in the production of each fabric, to determine the relative 'quality' of each textile artefact. The quality score is based on Cassman's calculation of the textile collection from the Azapa valley from the Late Intermediate Period (1997).