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## **Wrap the Dead : The funerary textile tradition from the Osmore Valley, South Peru, and its social-political implications**

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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 |             | 9  |   |                  |   | 4  |          |
| ?           |               | 1 |   |               |   |   |                   |   |   | 1                 |   |   |                 |    | 1 |             | 9  |   |                  |   | 4  |          |
| 4Ab*        |               |   |   |               |   |   |                   |   |   |                   | 1 |   | 1               |    | 2 |             | 2  |   |                  | 1 |    |          |
| ♂           |               |   |   |               |   |   |                   |   |   |                   | 1 |   |                 |    |   |             |    |   |                  |   |    |          |
| ?           |               |   |   |               |   |   |                   |   |   |                   |   |   | 1               |    | 2 |             | 2  |   |                  | 1 |    |          |
| 4Abd*       |               |   |   |               |   |   |                   |   |   |                   |   |   |                 |    |   |             | 1  |   |                  |   |    |          |
| ?           |               |   |   |               |   |   |                   |   |   |                   |   |   |                 |    |   |             | 1  |   |                  |   |    |          |
| 4B          |               |   |   |               |   |   |                   |   |   |                   |   |   |                 |    |   |             |    |   |                  |   | 1  |          |
| ?           |               |   |   |               |   |   |                   |   |   |                   |   |   |                 |    |   |             |    |   |                  |   | 1  |          |
| 4Bd*        |               |   |   |               |   |   |                   |   |   |                   |   |   |                 |    |   |             |    |   |                  |   | 1  |          |
| ?           |               |   |   |               |   |   |                   |   |   |                   |   |   |                 |    |   |             |    |   |                  |   | 1  |          |

(Continued table)

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

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<br>1988/1995 |        | La Cruz<br>I-T/C |        | La Cruz<br>Chiribaya |        | La Cruz<br>unknown |        | El Descanso |        | Algodonal<br>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<br>lateral seam     | Chen Chen<br>1988/1995 |        | La Cruz<br>I-T/C |        | La Cruz<br>Chiribaya |        | La Cruz<br>unknown |        | El Descanso |        | Algodonal<br>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<br>arm opening       | Chen Chen<br>1988/1995 |         | La Cruz<br>I-T/C |         | La Cruz<br>Chiribaya |         | La Cruz<br>unknown |         | El Descanso |         | Algodonal<br>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<br>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<br>bottom reinforcement | Chen Chen<br>1988/1995 |         | La Cruz<br>I-T/C |         | La Cruz<br>Chiribaya |         | La Cruz<br>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<sup>[1]</sup>, and in three specimens with cross-knit loop stitching.<sup>[2]</sup> 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<br>1988/1995 |        | La Cruz<br>I-T/C |        | La Cruz<br>Chiribaya |        | La Cruz<br>unknown |        | El Descanso |        | Algodonal<br>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<br>base neck slit   | Chen Chen<br>1988/1995 |        | La Cruz<br>I-T/C |        | La Cruz<br>Chiribaya |        | La Cruz<br>unknown |        | El Descanso |        | Algodonal<br>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<br>1988/1995 |         | La Cruz<br>I-T/C |         | La Cruz<br>Chiribaya |         | La Cruz<br>unknown |         | El Descanso |         | Algodonal<br>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 %  |
| <b>Opening:</b>                    |                        |         |                  |         |                      |         |                    |         |             |         |                     |         |
| 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/<br>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/<br>partial  | —                      | —       | 1                | 3.4 %   | —                    | —       | —                  | —       | 2           | 3.3 %   | —                   | —       |
| neck & bottom complete/<br>partial | 1                      | 4.0 %   | 1                | 3.4 %   | —                    | —       | —                  | —       | —           | —       | 4                   | 10.8 %  |
| arm & neck & bottom<br>complete    | —                      | —       | 2                | 6.9 %   | 1                    | 5.9 %   | 1                  | 4.3 %   | —           | —       | —                   | —       |
| lateral side/embroidered<br>plaque | 1                      | 4.0 %   |                  |         |                      |         | —                  | —       | 1           | 1.6 %   | 2                   | 5.4 %   |
| <b>Internal:</b>                   |                        |         |                  |         |                      |         |                    |         |             |         |                     |         |
| 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 %   |
| <b>Internal and openings:</b>      |                        |         |                  |         |                      |         |                    |         |             |         |                     |         |
| top shoulder & bottom              | 1                      | 4.0 %   | 3                | 10.3 %  | 1                    | 5.9 %   | 1                  | 4.3 %   | —           | —       | 1                   | 2.7 %   |
| top shoulder & centre &<br>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<br>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<br>1988/1995 |                | La Cruz<br>I-T/C |                | La Cruz<br>Chiribaya |                | La Cruz<br>unknown |                | El Descanso |                | Algodonal<br>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<br>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 &<br>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<br>1988-1995 |      |      | La Cruz<br>I-T/C |      |      | La Cruz<br>Chiribaya |      |      | La Cruz<br>unknown |      |      | El Descanso |      |      | Algodonal<br>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<br>1988-1995 |      |      | La Cruz<br>I-T/C |      |      | La Cruz<br>Chiribaya |      |      | La Cruz<br>unknown |      |      | El Descanso |      |      | Algodonal<br>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).