

**Routine claw trimming data provides insight into the occurrence and recording of claw lesions in Holstein herds in the central region of South Africa**

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**Online resource 2**

**2.1 SAS output: Correspondence analysis of lesion by foot (location)**

The CORRESP Procedure

**Inertia and Chi-Square Decomposition**

| Singular Value | Principal Inertia | Chi-Square | Percent | Cumulative Percent | 0 | 20 | 40 | 60 | 80 |
|----------------|-------------------|------------|---------|--------------------|---|----|----|----|----|
| 0.16384        | 0.02684           | 110.028    | 79.65   | 79.65              |   |    |    |    |    |
| 0.07756        | 0.00602           | 24.657     | 17.85   | 97.50              |   |    |    |    |    |
| 0.02902        | 0.00084           | 3.451      | 2.50    | 100.00             |   |    |    |    |    |
|                | 0.03370           | 138.136    | 100.00  |                    |   |    |    |    |    |

Pr > Chisq < .0001 DF = 12

**Row Coordinates**

|          | Dim1    | Dim2    |
|----------|---------|---------|
| <b>D</b> | 0.0157  | 0.0424  |
| <b>F</b> | 0.6633  | -0.0924 |
| <b>H</b> | -0.2968 | -0.0912 |
| <b>U</b> | -0.2892 | -0.1080 |
| <b>W</b> | 0.2612  | -0.1978 |

**Column Coordinates**

|           | Dim1    | Dim2    |
|-----------|---------|---------|
| <b>LF</b> | 0.2536  | 0.1058  |
| <b>RF</b> | 0.5185  | -0.0488 |
| <b>LR</b> | -0.0626 | 0.0707  |
| <b>RR</b> | -0.0612 | -0.0835 |

## 2.2 SAS output: Correspondence analysis of lesion by housing

| Inertia and Chi-Square Decomposition |                   |            |         |                    |   |    |    |    |    |
|--------------------------------------|-------------------|------------|---------|--------------------|---|----|----|----|----|
| Singular Value                       | Principal Inertia | Chi-Square | Percent | Cumulative Percent | 0 | 20 | 40 | 60 | 80 |
| 0.25269                              | 0.06385           | 201.773    | 90.70   | 90.70              |   |    |    |    |    |
| 0.08094                              | 0.00655           | 20.700     | 9.30    | 100.00             |   |    |    |    |    |
| 0.07040                              | 222.473           | 100.00     |         |                    |   |    |    |    |    |

Pr > Chisq < .0001 DF = 10

### Row Coordinates

|          | Dim1    | Dim2    |
|----------|---------|---------|
| <b>D</b> | -0.0139 | -0.0099 |
| <b>E</b> | -0.2737 | 0.0707  |
| <b>F</b> | -0.0186 | -0.0964 |
| <b>U</b> | 0.0465  | -0.2429 |
| <b>W</b> | 0.6349  | 0.1162  |
| <b>H</b> | 0.6947  | 0.0268  |

### Column Coordinates

|             | Dim1    | Dim2    |
|-------------|---------|---------|
| <b>DL</b>   | 0.0415  | -0.1052 |
| <b>FS</b>   | -0.1207 | 0.0574  |
| <b>COMB</b> | 1.0064  | 0.1029  |