

## *Alpaca Fiber Testing USA*

Owned and operated by Alpaca Consulting USA  
1540 San Bernardo Creek Road, Morro Bay California 93442  
phone + 1 805 772 1774  
email [info@alpacaconsultingUSA.com](mailto:info@alpacaconsultingUSA.com)  
web [www.alpacaconsultingUSA.com](http://www.alpacaconsultingUSA.com)

# SKIN BIOPSY TEST REPORT

**Owner name:** Christopher Powers

**Alpaca name:** Tolosa

**Fleece type, color and age at testing:** Huacaya, White, 27 months

**Date of test:** 11 February 2009

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**Follicle density:** 41.32 /mm<sup>2</sup>

**Mean Fiber Diameter:** 20.14 micron    **Standard Deviation:** 3.32 micron

**Co-efficient of Variation – Fiber Diameter (CVFD):** 16 %

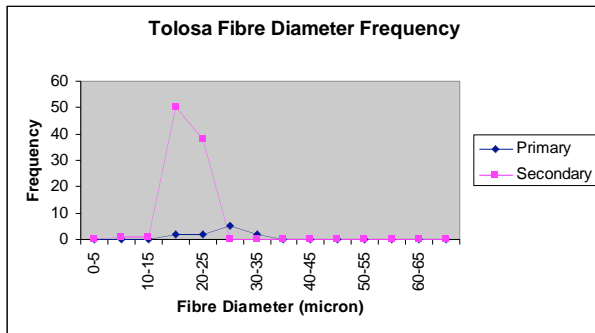
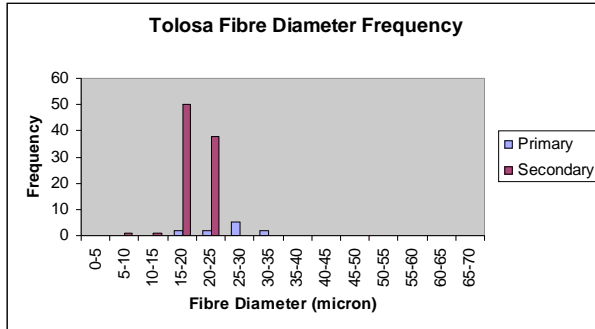
**Secondary:Primary ratio (S:P):** 9.7 : 1

**Mean Fiber Diameter Primaries (Dp):** 25.35 micron    **Standard Deviation:** 4.57 μ

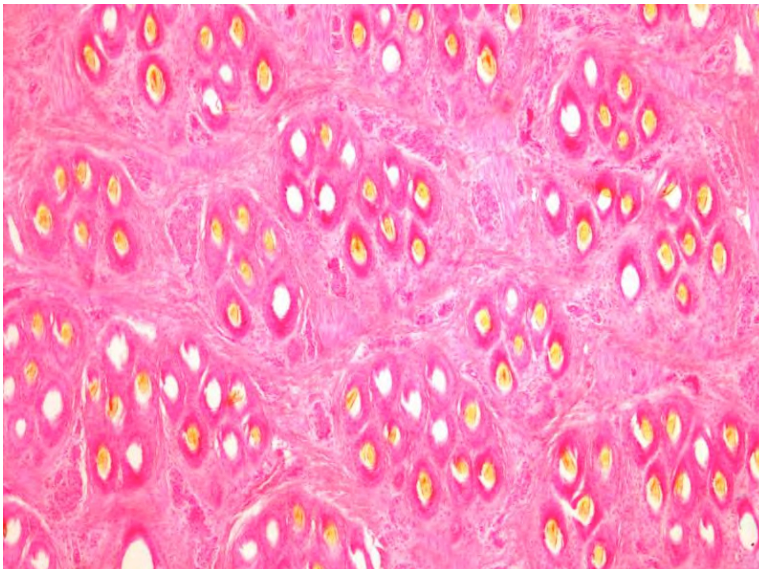
**Mean Fiber Diameter Secondaries (Ds):** 19.51 micron    **Standard deviation:** 2.50 μ

**Dp:Ds ratio:** 1.30

## Fiber Diameter Frequency Histogram:



## Micrograph of skin section:



**Comments:**

Excellent density supported by the lowest fiber population differential we have seen in the USA.

The secondary fiber population is approaching the statistics of an elite merino fleece with some follicles at less than 10 micron diameter.

The follicle grouping structure is a little weak which may account for the higher SD in the primary fiber population.

This is an elite fleece and would, most likely, improve with the use of a sire with higher density and an S:P ratio over 12:1.

Ian Watt