

## *Alpaca Fiber Testing USA*

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# SKIN BIOPSY TEST REPORT

**Owner name:** Christopher Powers

**Alpaca name:** Hot Silk

**Fleece type, color and age at testing:** Huacaya, White, 29 months

**Date of test:** 6 February 2009

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**Follicle density:** 40.43 /mm<sup>2</sup>

**Mean Fiber Diameter:** 25.90 micron    **Standard Deviation:** 5.95 micron

**Co-efficient of Variation – Fiber Diameter (CVFD):** 23 %

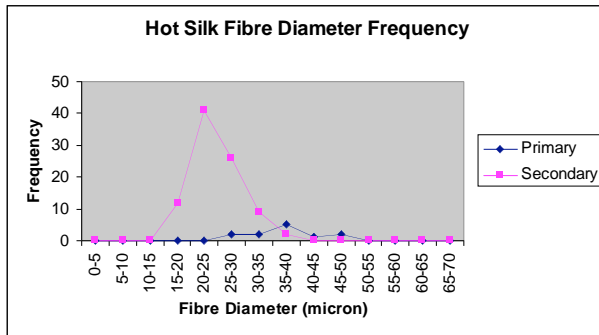
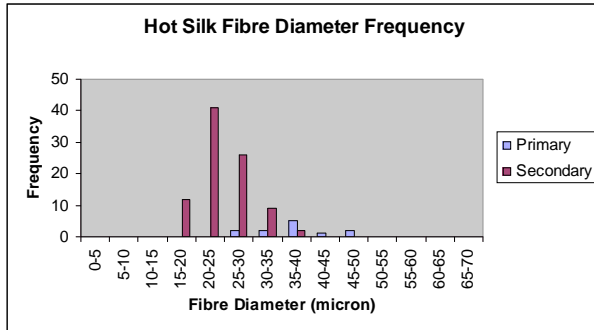
**Secondary:Primary ratio (S:P):** 9.0 : 1

**Mean Fiber Diameter Primaries (Dp):** 37.15 micron    **Standard Deviation:** 6.02 μ

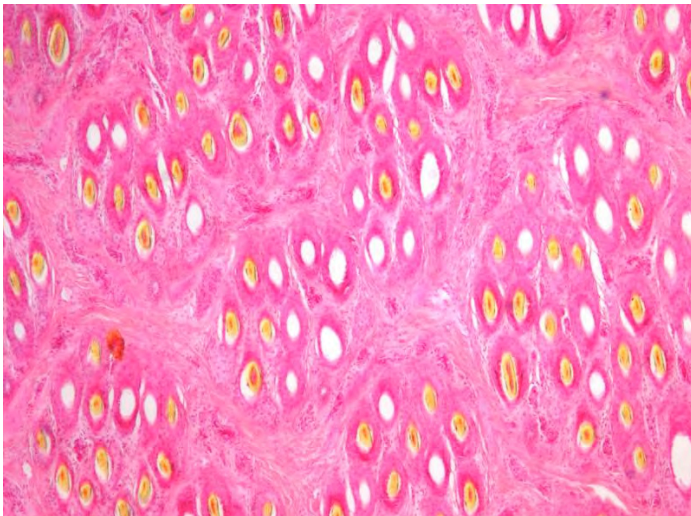
**Mean Fiber Diameter Secondaries (Ds):** 24.52 micron    **Standard deviation:** 4.26 μ

**Dp:Ds ratio:** 1.52

## Fiber Diameter Frequency Histogram:



## Micrograph of skin section:



**Comments:**

This is a better than average female in both density count and S:P ratio.

The fiber population differential in an alpaca of this age should be under 10 for a superior fleeced animal with lower SD figures for both populations.

A dense, evenly coated male in the upper 50's and with a S:P over 10 would be a useful mating combination.

Ian Watt