

## *Alpaca Fiber Testing USA*

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# SKIN BIOPSY TEST REPORT

**Owner name:** Christopher Powers

**Alpaca name:** Madasima

**Fleece type, color and age at testing:** Huacaya, White, 19 months

**Date of test:** 6 February 2009

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**Follicle density:** 53.55 /mm<sup>2</sup>

**Mean Fiber Diameter:** 21.47 micron    **Standard Deviation:** 6.63 micron

**Co-efficient of Variation – Fiber Diameter (CVFD):** 31 %

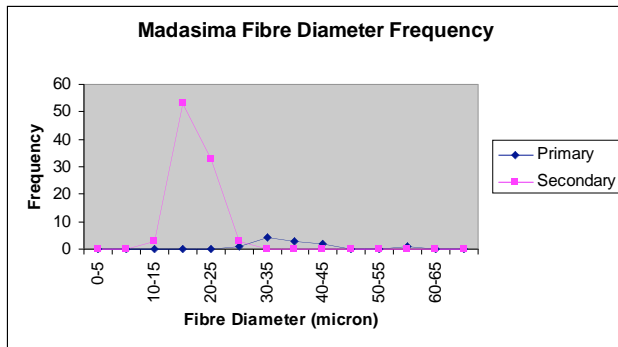
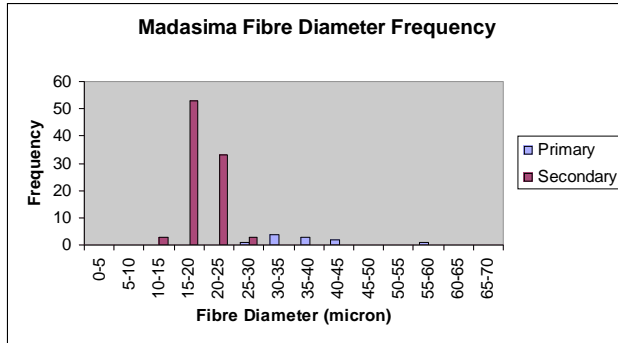
**Secondary:Primary ratio (S:P):** 11.4 : 1

**Mean Fiber Diameter Primaries (Dp):** 37.49 micron    **Standard Deviation:** 7.20 μ

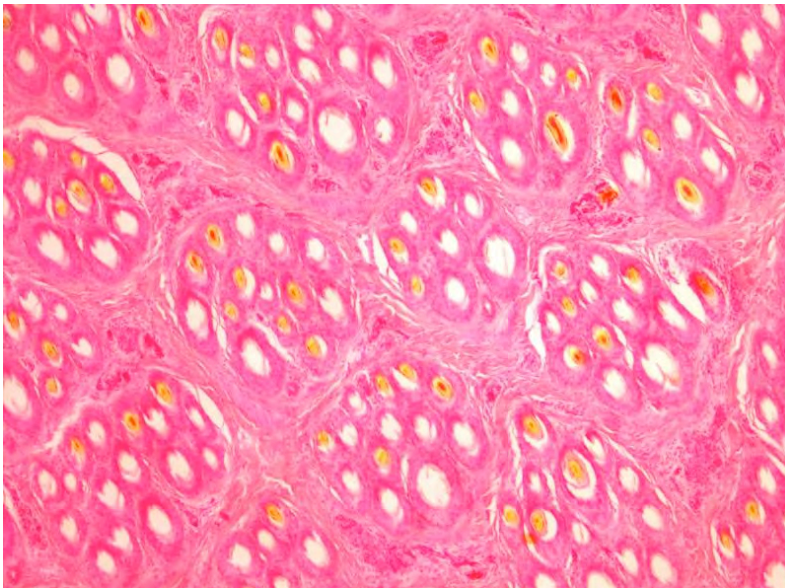
**Mean Fiber Diameter Secondaries (Ds):** 19.55 micron    **Standard deviation:** 2.97 μ

**Dp:Ds ratio:** 1.91

## Fiber Diameter Frequency Histogram:



## Micrograph of skin section:



**Comments:**

Excellent density figures well supported by an above average S:P ratio.

However, the fiber population differential is some way away from the preferred 10 micron and lower variation, with a high primary count both in micron and SD. The SD of the secondary population is good and the micron count excellent.

A recommended sire matchup would focus on a lower primary micron count as all other measurements are very good for a female alpaca.

Ian Watt