



| Christopher-B | | | |
|--|------|-------------------------------------|------|
| 59 months old white Huacaya male | | | |
| DENSITY: | | LENGTH: | |
| Mean fibre diameter (microns) | 22.4 | Crimps per cm | 2.7 |
| Secondary follicle to primary follicle ratio | 11.8 | Fibre growth rate (mm per day) | 0.28 |
| Follicle density (per mm ²) | 44.1 | Fibre length to staple length ratio | 1.03 |

| Royal Fawn's Accoyo Centurion | | | |
|--|------|-------------------------------------|-----|
| 44 months old white Huacaya male | | | |
| DENSITY: | | LENGTH: | |
| Mean fibre diameter (microns) | 25 | Crimps per cm | na |
| Secondary follicle to primary follicle ratio | 15.7 | Fibre growth rate (mm per day) | .26 |
| Follicle density (per mm ²) | 49.3 | Fibre length to staple length ratio | na |

| BHA Peruvian White Knight | | | |
|--|------|-------------------------------------|------|
| 19 months old white Huacaya male | | | |
| DENSITY: | | LENGTH: | |
| Mean fibre diameter (microns) | 21.1 | Crimps per cm | 2.75 |
| Secondary follicle to primary follicle ratio | 11.3 | Fibre growth rate (mm per day) | 0.38 |
| Follicle density (per mm ²) | 62.2 | Fibre length to staple length ratio | 0.99 |

At Champion Alpacas and Powers Alpacas we are constantly researching, testing, recording, and building our knowledge of alpacas

Each of the males in our lineup provides a new level of generational improvement as evidenced by fiber diameter, follicular density, and primary to secondary follicle ratio measurements

In our relentless attention to alpaca fleece improvement we are unapologetic about our white huacaya focus - if you are interested in white or light come talk to us!



Champion Alpacas

PAC Powers Alpaca Co.

Breeding for superior fiber production and quality requires deliberate selection of follicle density and fiber growth traits.

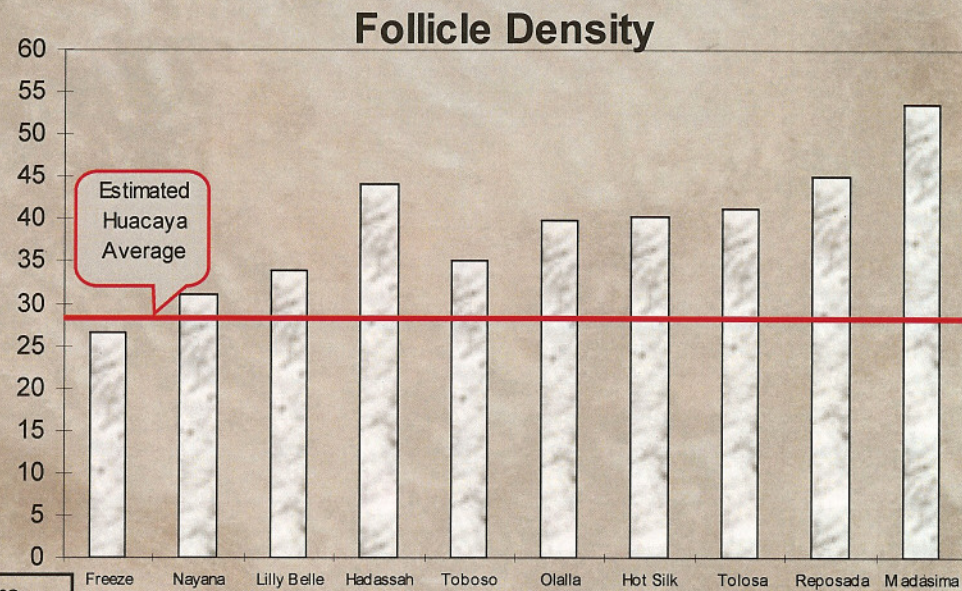
Sustained improvement does not result from chance, but from planning.

Example 1

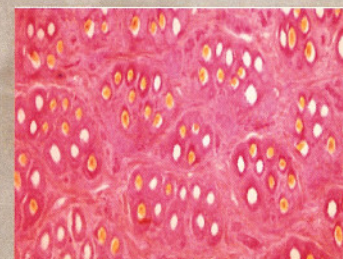
| | Dam Gen 1 | Sire | Dam Gen 2 | Sire | Dam Gen 3 | Sire |
|------------------|----------------------|----------------------|----------------------|----------------------|--------------|----------------------|
| | Nayana | Christopher B | Tolosa | Centurion | June-09 | White Knight |
| Follicle Density | 31.2 mm ² | 44.1 mm ² | 41.3 mm ² | 49.3 mm ² | | 62.2 mm ² |
| S:P Ratio | 9.1:1 | 11.8:1 | 9.7:1 | 15.7:1 | | 11.3:1 |

Example 2

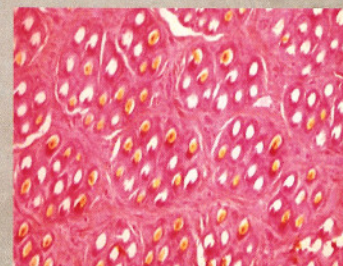
| | Dam Gen 1 | Sire | Dam Gen 2 | Sire | Dam Gen 3 | Sire |
|------------------|----------------------|----------------------|----------------------|----------------------|--------------|----------------------|
| | Lilly Belle | Christopher B | Olalla | Centurion | June-09 | White Knight |
| Follicle Density | 33.9 mm ² | 44.1 mm ² | 39.9 mm ² | 49.3 mm ² | | 62.2 mm ² |
| S:P Ratio | 8.0:1 | 11.8:1 | 9.8:1 | 15.7:1 | | 11.3:1 |



Through selective breeding we are improving our herd. Just look at the comparisons:



generation 1



generation 2



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