

Yocom-McColl Testing Laboratories, Inc.

540 West Elk Place • Denver, Colorado 80216-1823 USA

PHONE (303) 294-0582 • FAX (303) 295-6944

EMAIL: ymccoll@ymccoll.com

Optical Fiber Diameter Analyser (OFDA 100) Micron Test Report

Colusa Riverside Alpacas/David & Sheila Scroggins
6909 Codorniz Rd
Colusa CA 95932-4016 USA

Date: 07/30/13
Shear ID: 39046
Test No: 463801

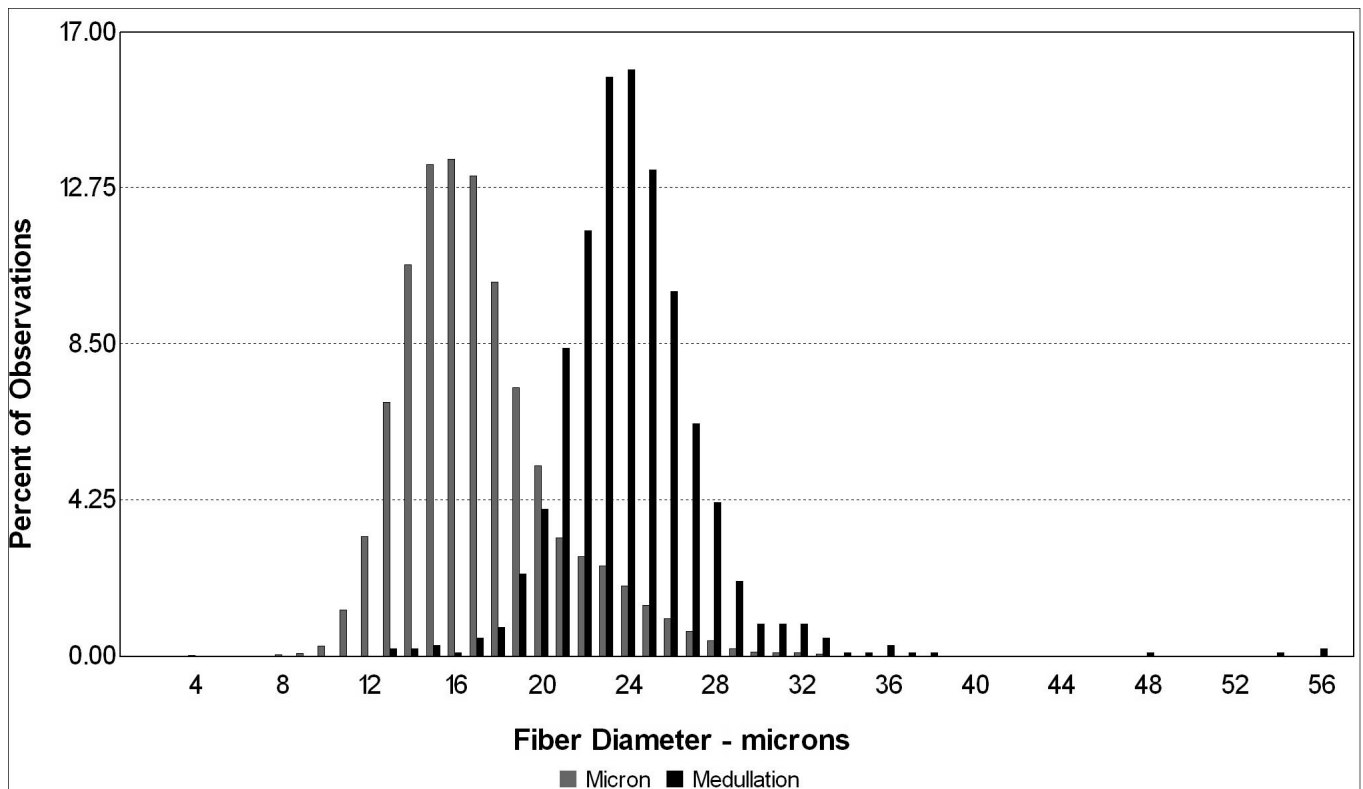
Animal and Sample Description

Animal Name: River Dalia
ARI #: 32521498
Breed: Alpaca(Huacaya)
Sex: Female
Color: White

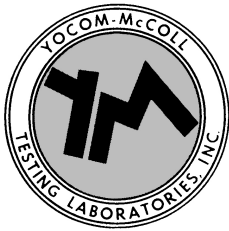
Date of Birth (Age): 06/12/12
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: XX/XX/XX
Total Fleece Wt (lbs): 3.90

Laboratory Data

Mean Fiber Diameter:	17.2 microns	Mean Staple Length:	92.8 mm
Standard Deviation:	4.1 microns	Length Standard Deviation:	3.7 mm
Coefficient of Variation:	23.7 %	Length Coefficient of Variation:	4.0 %
Spin Fineness:	17.2 microns	Mean Curvature:	43.8 deg/mm
Fibers Greater Than 30 microns:	0.7 %	SD Curvature:	23.1 deg/mm
Comfort Factor:	99.3 %	Medullated Fibers:	9.4 %



This Test Performed According to I.W.T.O Method 47



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Colusa Riverside Alpacas/David & Sheila Scroggins
6909 Codorniz Rd
Colusa CA 95932-4016 USA

Date: 07/30/13
Shear ID: 39042
Test No: 463802

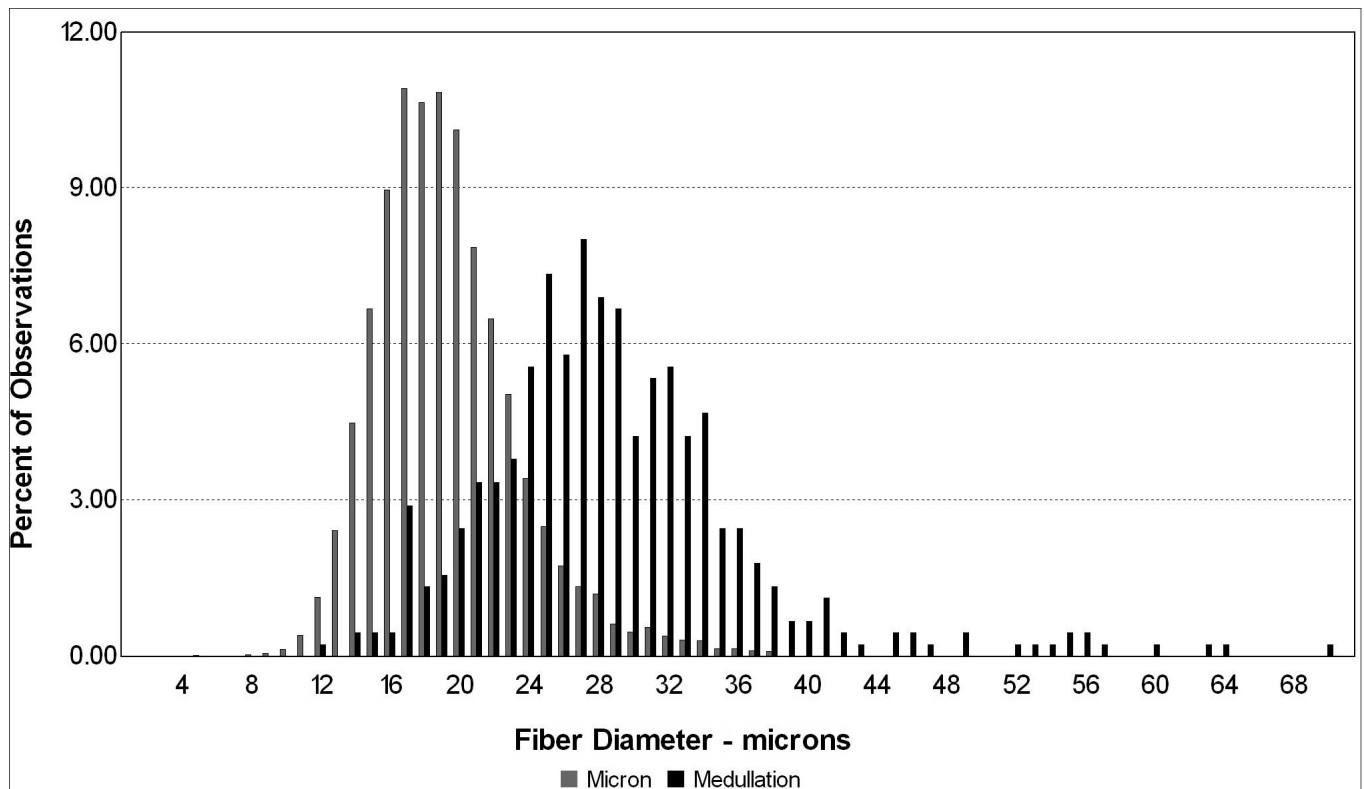
Animal and Sample Description

Animal Name: Contender's Prodigy
ARI #: 32521443
Breed: Alpaca(Huacaya)
Sex: Male
Color: Beige

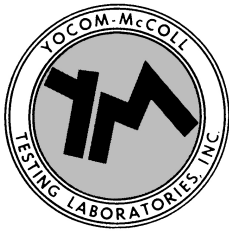
Date of Birth (Age): 06/04/12
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: XX/XX/XX
Total Fleece Wt (lbs): 6.40

Laboratory Data

Mean Fiber Diameter:	19.5 microns	Mean Staple Length:	100.4 mm
Standard Deviation:	4.7 microns	Length Standard Deviation:	3.4 mm
Coefficient of Variation:	23.9 %	Length Coefficient of Variation:	3.4 %
Spin Fineness:	19.5 microns	Mean Curvature:	41.7 deg/mm
Fibers Greater Than 30 microns:	2.5 %	SD Curvature:	23.5 deg/mm
Comfort Factor:	97.5 %	Medullated Fibers:	4.7 %



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Colusa Riverside Alpacas/David & Sheila Scroggins
6909 Codorniz Rd
Colusa CA 95932-4016 USA

Date: 07/30/13
Shear ID: 39037
Test No: 463803

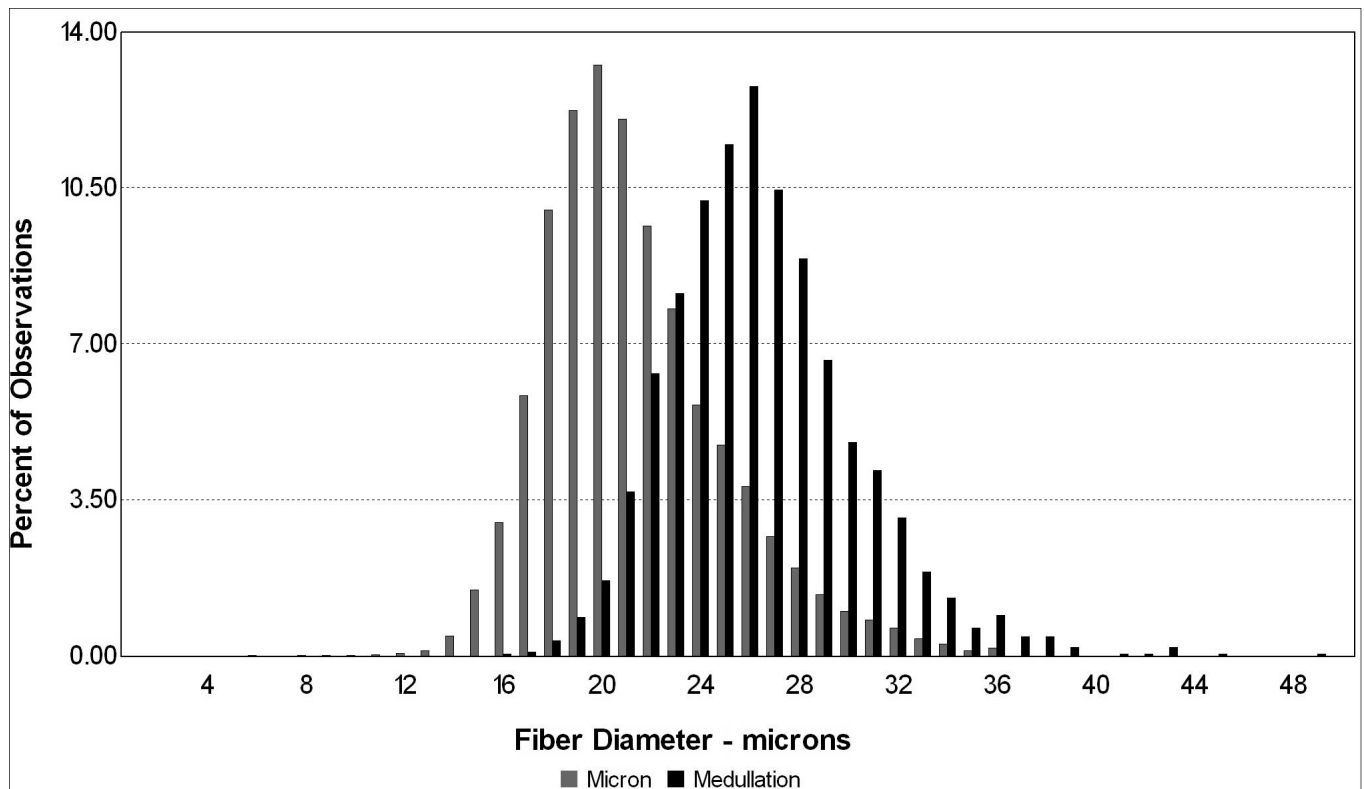
Animal and Sample Description

Animal Name: Bluegrass Peruvian Prophecy
ARI #: 30594791
Breed: Alpaca(Huacaya)
Sex: Male
Color: White

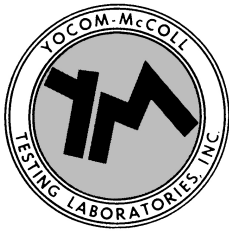
Date of Birth (Age): 02/11/07
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 04/20/12
Total Fleece Wt (lbs): 7.20

Laboratory Data

Mean Fiber Diameter:	21.4 microns	Mean Staple Length:	77.0 mm
Standard Deviation:	3.8 microns	Length Standard Deviation:	0.7 mm
Coefficient of Variation:	17.9 %	Length Coefficient of Variation:	0.9 %
Spin Fineness:	20.3 microns	Mean Curvature:	43.9 deg/mm
Fibers Greater Than 30 microns:	2.7 %	SD Curvature:	24.7 deg/mm
Comfort Factor:	97.3 %	Medullated Fibers:	18.2 %



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6909 Codorniz Rd
Colusa CA 95932-4016 USA

Date: 07/30/13
Shear ID: 39051
Test No: 463804

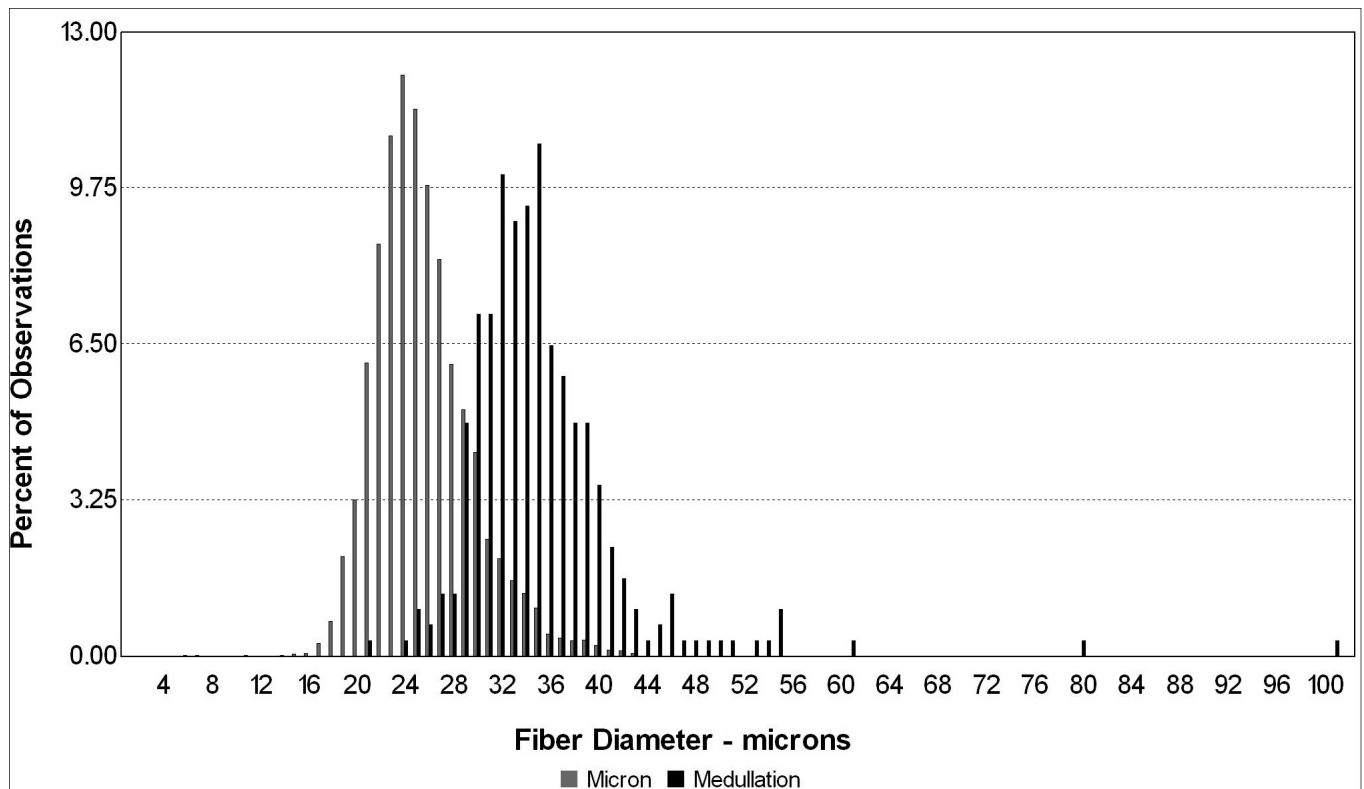
Animal and Sample Description

Animal Name: Summer Solstice Renaissance Ridge
ARI #: 30597815
Breed: Alpaca(Huacaya)
Sex: Female
Color: White

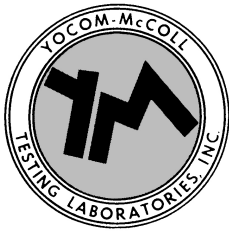
Date of Birth (Age): 06/24/06
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 05/15/12
Total Fleece Wt (lbs): 5.80

Laboratory Data

Mean Fiber Diameter:	25.7 microns	Mean Staple Length:	81.8 mm
Standard Deviation:	4.5 microns	Length Standard Deviation:	2.8 mm
Coefficient of Variation:	17.7 %	Length Coefficient of Variation:	3.4 %
Spin Fineness:	24.3 microns	Mean Curvature:	31.0 deg/mm
Fibers Greater Than 30 microns:	10.9 %	SD Curvature:	19.3 deg/mm
Comfort Factor:	89.1 %	Medullated Fibers:	5.7 %



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Date: 07/30/13
Shear ID: 39036
Test No: 463805

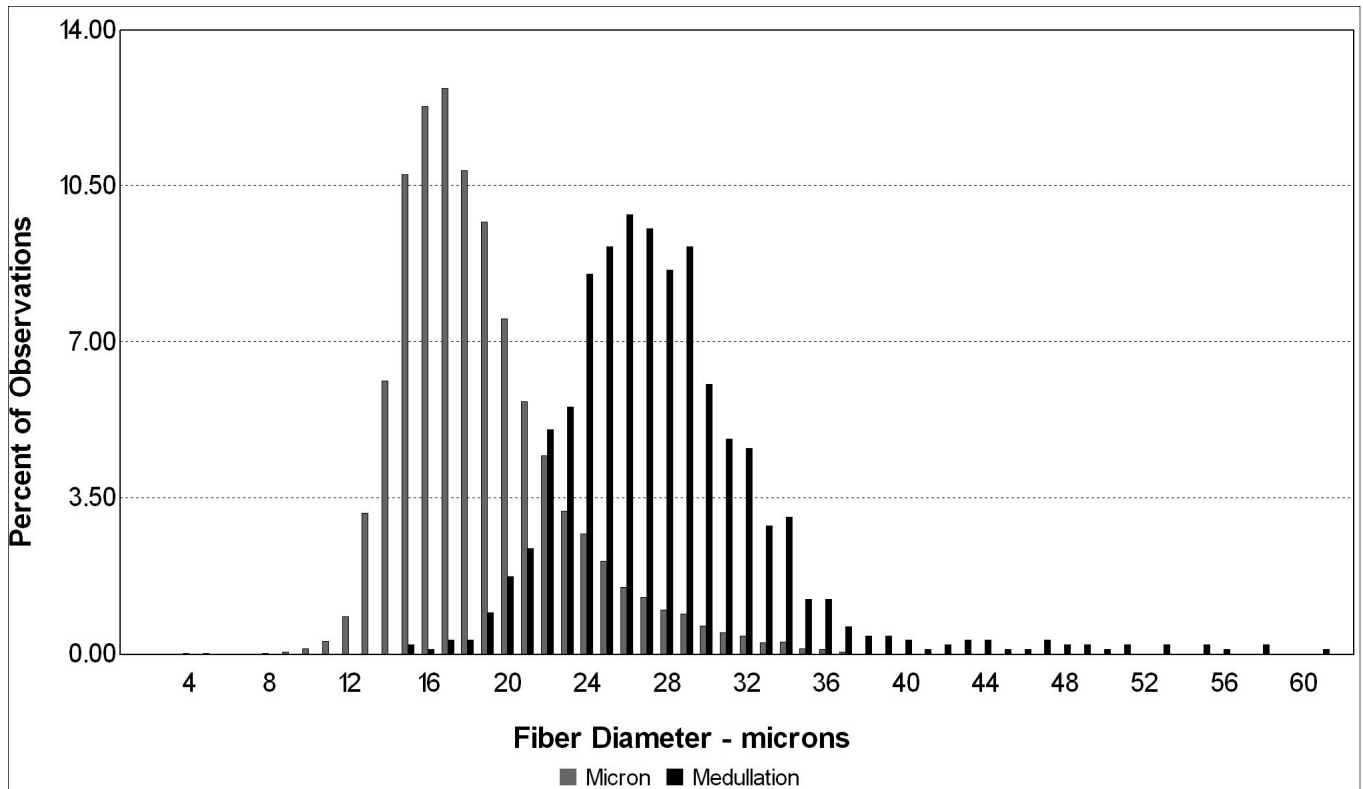
Animal and Sample Description

Animal Name: Black Hills Carmon
ARI #: 31355025
Breed: Alpaca(Huacaya)
Sex: Female
Color: Beige

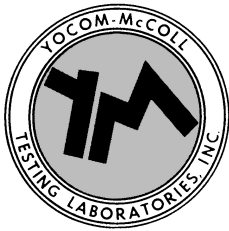
Date of Birth (Age): 09/23/09
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 06/15/12
Total Fleece Wt (lbs): 6.30

Laboratory Data

Mean Fiber Diameter:	18.8 microns	Mean Staple Length:	68.6 mm
Standard Deviation:	4.6 microns	Length Standard Deviation:	2.6 mm
Coefficient of Variation:	24.3 %	Length Coefficient of Variation:	3.8 %
Spin Fineness:	18.8 microns	Mean Curvature:	52.6 deg/mm
Fibers Greater Than 30 microns:	2.2 %	SD Curvature:	28.8 deg/mm
Comfort Factor:	97.8 %	Medullated Fibers:	8.1 %



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Colusa Riverside Alpacas/David & Sheila Scroggins
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Colusa CA 95932-4016 USA

Date: 07/30/13
Shear ID: 39038
Test No: 463806

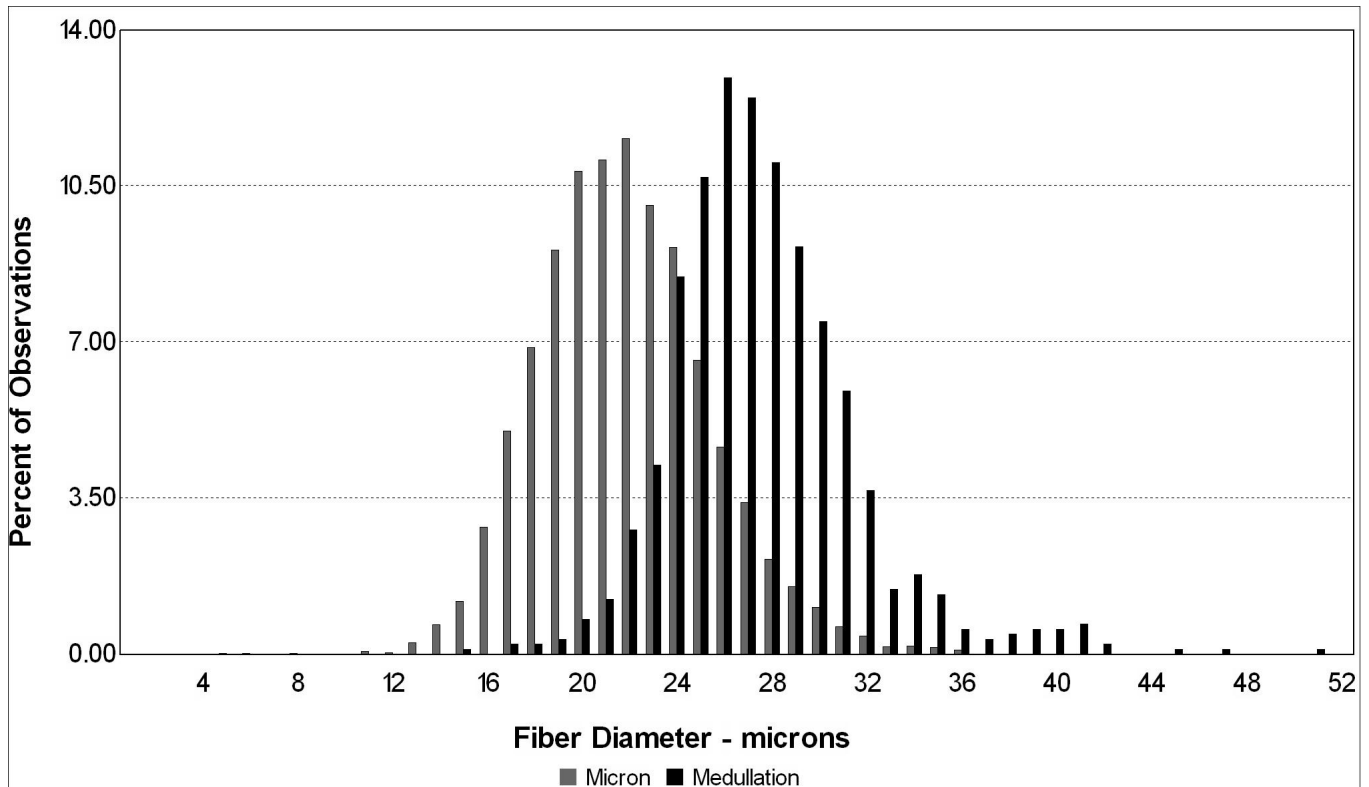
Animal and Sample Description

Animal Name: Bogart's Bianca
ARI #: 31151993
Breed: Alpaca(Huacaya)
Sex: Female
Color: White

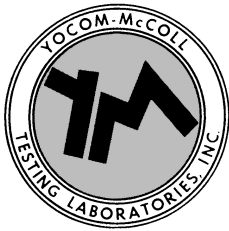
Date of Birth (Age): 03/31/09
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 04/20/12
Total Fleece Wt (lbs): 7.10

Laboratory Data

Mean Fiber Diameter:	21.9 microns	Mean Staple Length:	88.0 mm
Standard Deviation:	3.8 microns	Length Standard Deviation:	2.9 mm
Coefficient of Variation:	17.1 %	Length Coefficient of Variation:	3.3 %
Spin Fineness:	20.7 microns	Mean Curvature:	44.3 deg/mm
Fibers Greater Than 30 microns:	2.0 %	SD Curvature:	23.8 deg/mm
Comfort Factor:	98.0 %	Medullated Fibers:	9.4 %



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Date: 07/30/13
Shear ID: 39031
Test No: 463807

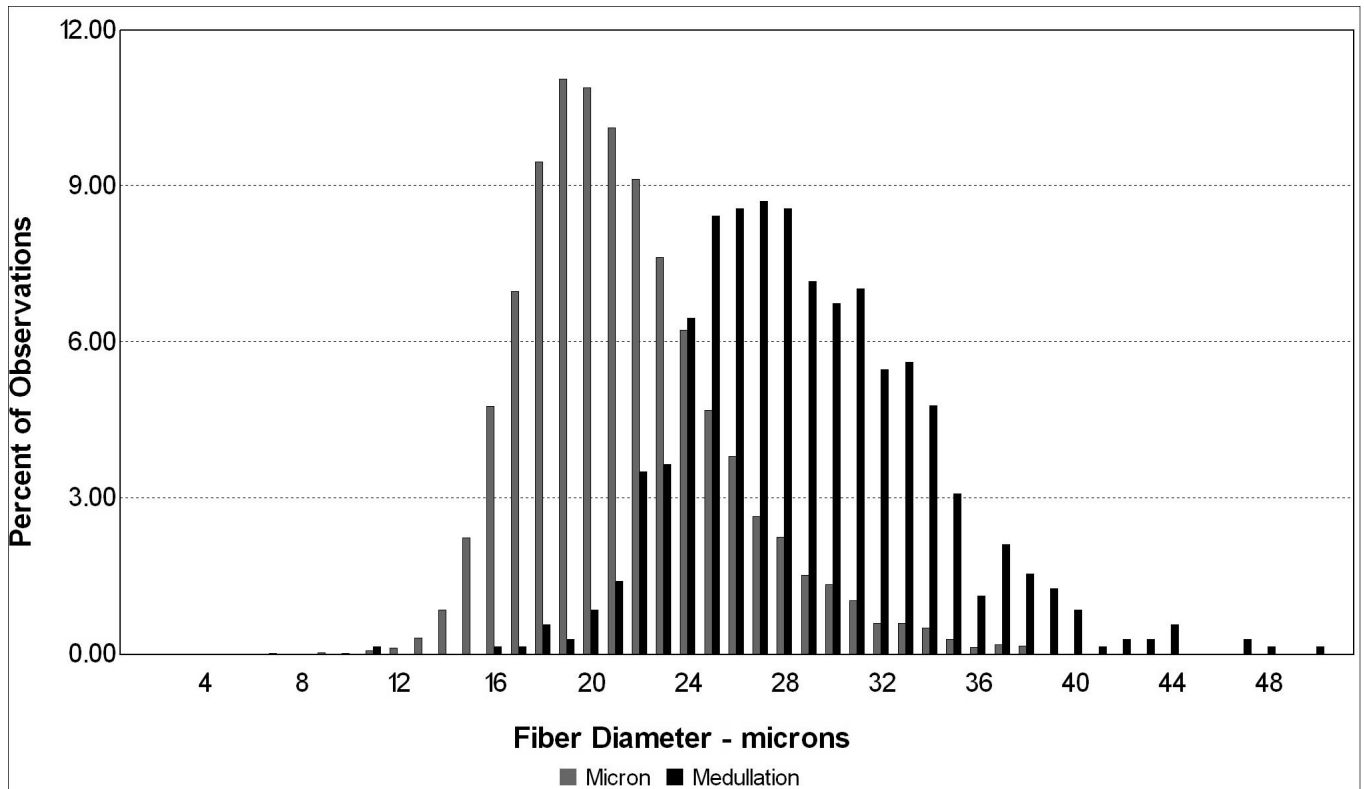
Animal and Sample Description

Animal Name: Andina's Marni
ARI #: 31658508
Breed: Alpaca(Huacaya)
Sex: Female
Color: Beige

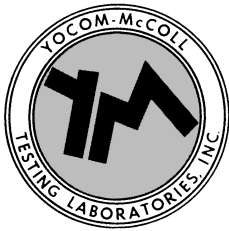
Date of Birth (Age): 09/15/09
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 06/15/12
Total Fleece Wt (lbs): 4.60

Laboratory Data

Mean Fiber Diameter:	21.5 microns	Mean Staple Length:	56.4 mm
Standard Deviation:	4.4 microns	Length Standard Deviation:	2.9 mm
Coefficient of Variation:	20.2 %	Length Coefficient of Variation:	5.1 %
Spin Fineness:	20.8 microns	Mean Curvature:	40.7 deg/mm
Fibers Greater Than 30 microns:	3.9 %	SD Curvature:	21.7 deg/mm
Comfort Factor:	96.1 %	Medullated Fibers:	7.1 %



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Date: 07/30/13
Shear ID: 39033
Test No: 463808

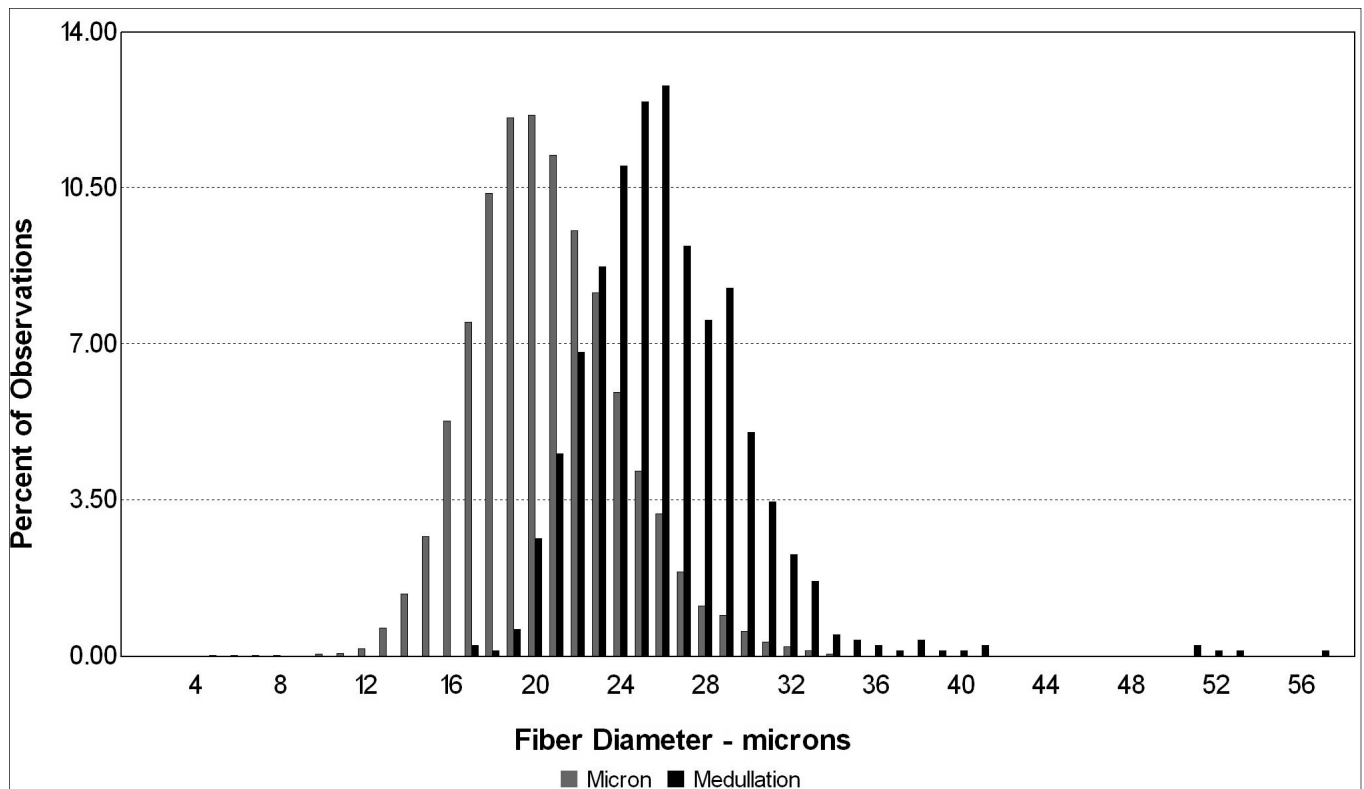
Animal and Sample Description

Animal Name: Arapaho Snow's Macchu Picchu
ARI #: 30853478
Breed: Alpaca(Huacaya)
Sex: Male
Color: White

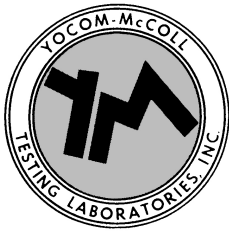
Date of Birth (Age): 09/04/08
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 04/20/12
Total Fleece Wt (lbs): 8.50

Laboratory Data

Mean Fiber Diameter:	20.6 microns	Mean Staple Length:	83.2 mm
Standard Deviation:	3.6 microns	Length Standard Deviation:	2.7 mm
Coefficient of Variation:	17.4 %	Length Coefficient of Variation:	3.2 %
Spin Fineness:	19.5 microns	Mean Curvature:	44.7 deg/mm
Fibers Greater Than 30 microns:	0.9 %	SD Curvature:	25.1 deg/mm
Comfort Factor:	99.1 %	Medullated Fibers:	6.9 %



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6909 Codorniz Rd
Colusa CA 95932-4016 USA

Date: 07/30/13
Shear ID: 39034
Test No: 463809

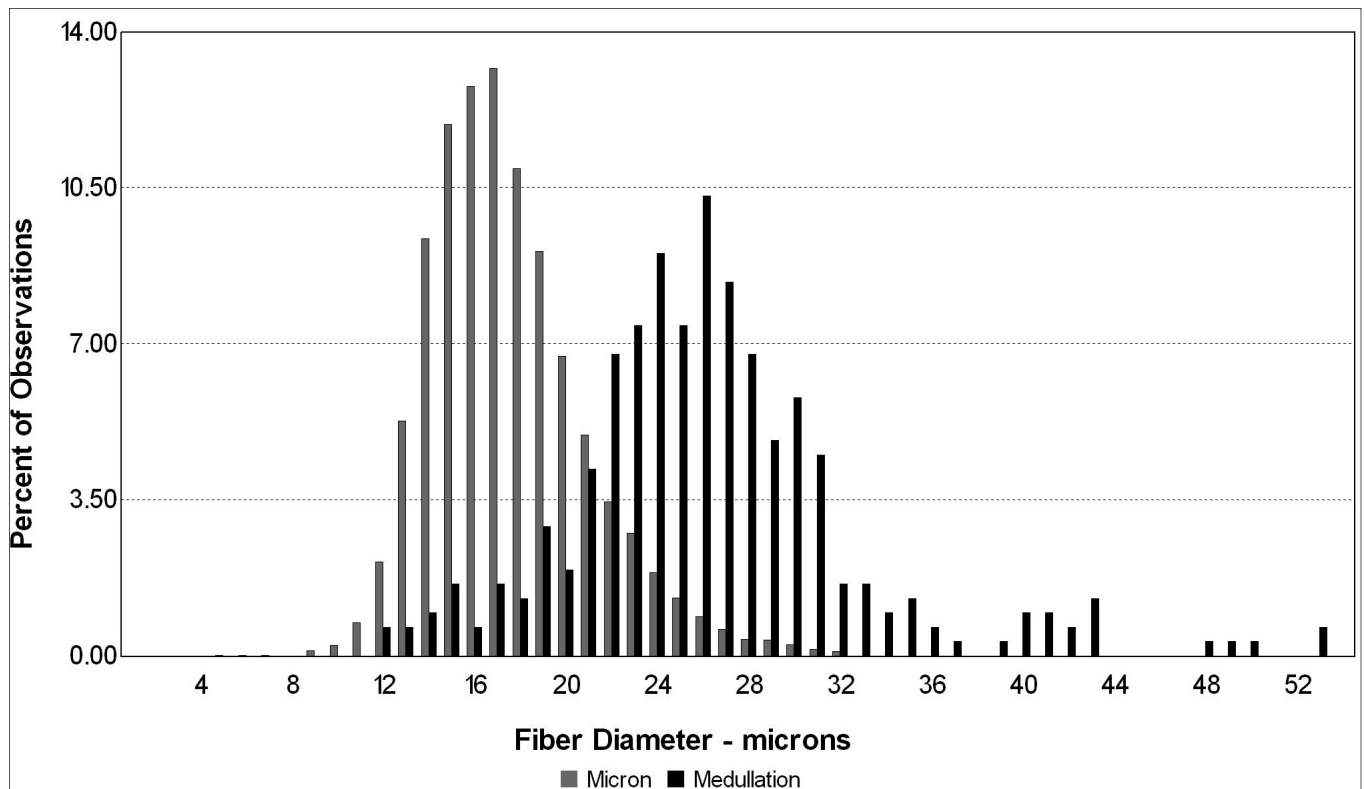
Animal and Sample Description

Animal Name: Arapaho Whitney Snow
ARI #: 31117128
Breed: Alpaca(Huacaya)
Sex: Female
Color: White

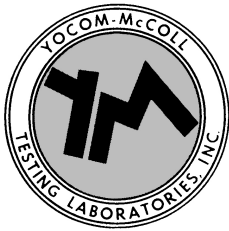
Date of Birth (Age): 05/20/08
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 04/20/12
Total Fleece Wt (lbs): 4.60

Laboratory Data

Mean Fiber Diameter:	17.6 microns	Mean Staple Length:	45.8 mm
Standard Deviation:	3.7 microns	Length Standard Deviation:	1.3 mm
Coefficient of Variation:	20.8 %	Length Coefficient of Variation:	2.9 %
Spin Fineness:	17.1 microns	Mean Curvature:	69.2 deg/mm
Fibers Greater Than 30 microns:	0.6 %	SD Curvature:	35.4 deg/mm
Comfort Factor:	99.4 %	Medullated Fibers:	2.6 %



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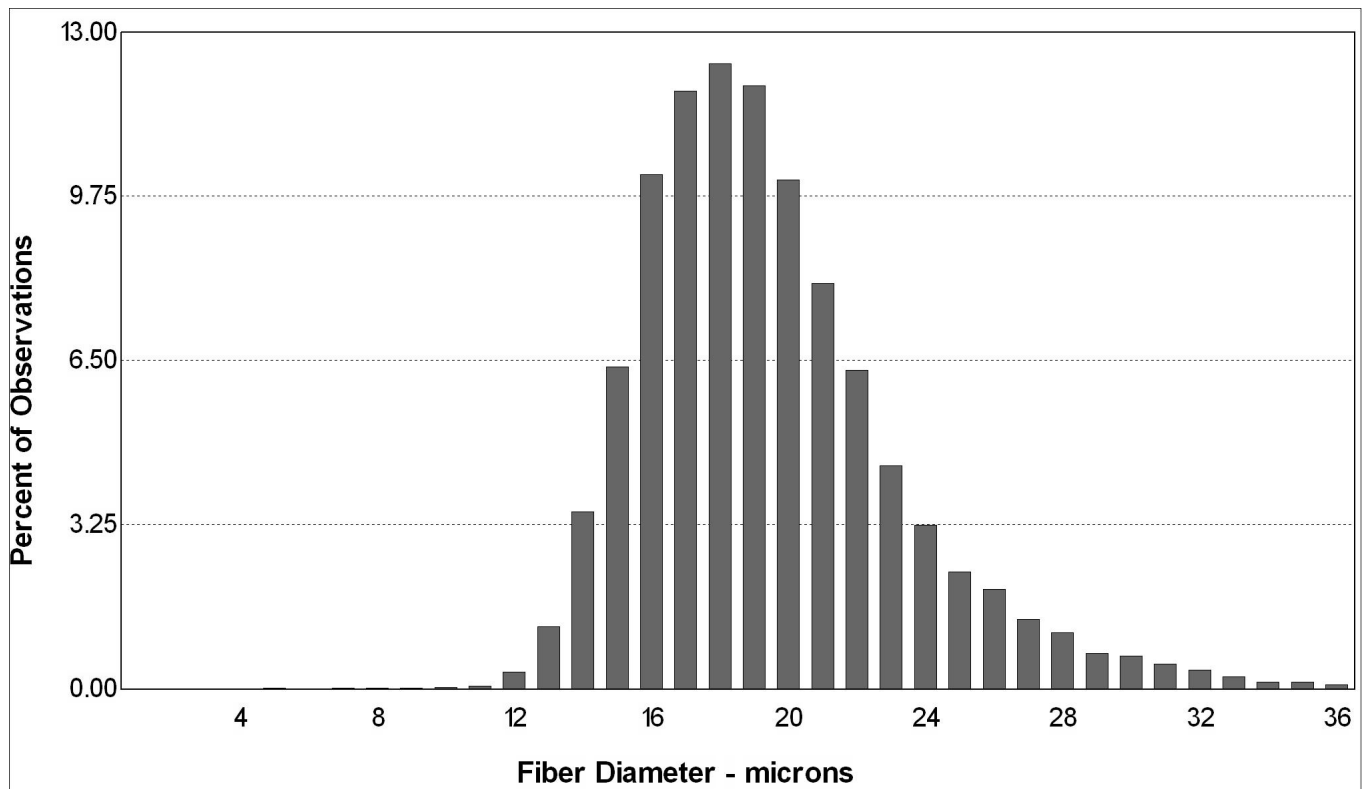
Date: 07/30/13
Shear ID: 39048
Test No: 463810

Animal and Sample Description

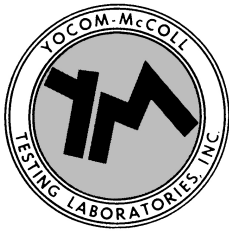
Animal Name:	River's Dream Catcher	Date of Birth (Age):	03/29/12
ARI #:	32191912	Sample Location:	Side
Breed:	Alpaca(Huacaya)	Sample Date:	04/19/13
Sex:	Female	Previous Shear Date:	04/20/12
Color:	Med Fawn	Total Fleece Wt (lbs):	6.70

Laboratory Data

Mean Fiber Diameter:	19.5 microns	Mean Staple Length:	117.8 mm
Standard Deviation:	4.1 microns	Length Standard Deviation:	2.4 mm
Coefficient of Variation:	21.2 %	Length Coefficient of Variation:	2.0 %
Spin Fineness:	19.0 microns	Mean Curvature:	42.4 deg/mm
Fibers Greater Than 30 microns:	1.9 %	SD Curvature:	24.2 deg/mm
Comfort Factor:	98.1 %		



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Colusa Riverside Alpacas/David & Sheila Scroggins
6909 Codorniz Rd
Colusa CA 95932-4016 USA

Date: 07/30/13
Shear ID: 39044
Test No: 463811

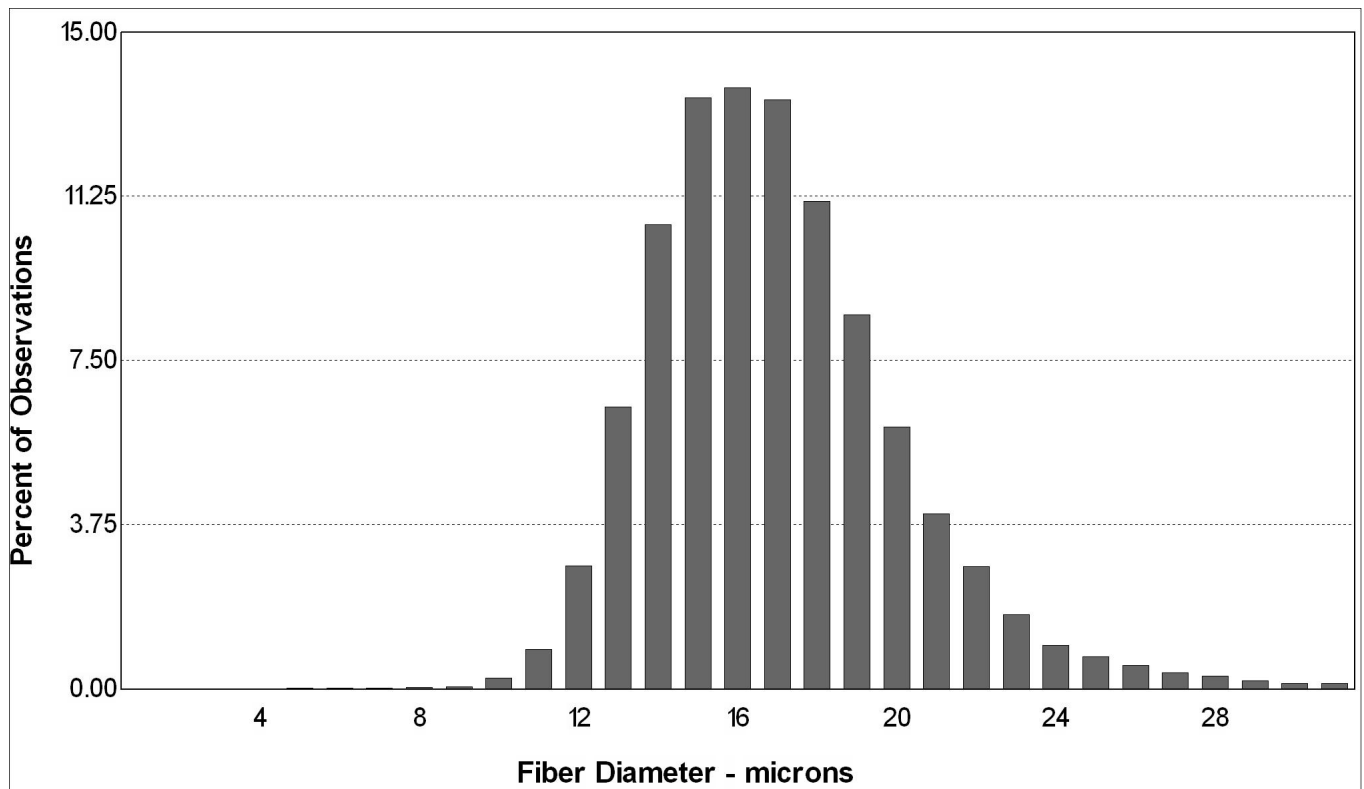
Animal and Sample Description

Animal Name: El Bello's Alexa
ARI #: 31397308
Breed: Alpaca(Huacaya)
Sex: Female
Color: Lt Fawn

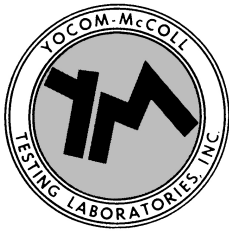
Date of Birth (Age): 08/03/08
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 06/17/12
Total Fleece Wt (lbs): 4.90

Laboratory Data

Mean Fiber Diameter:	17.1 microns	Mean Staple Length:	72.6 mm
Standard Deviation:	3.5 microns	Length Standard Deviation:	3.3 mm
Coefficient of Variation:	20.6 %	Length Coefficient of Variation:	4.5 %
Spin Fineness:	16.6 microns	Mean Curvature:	51.3 deg/mm
Fibers Greater Than 30 microns:	0.8 %	SD Curvature:	28.0 deg/mm
Comfort Factor:	99.2 %		



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6909 Codorniz Rd
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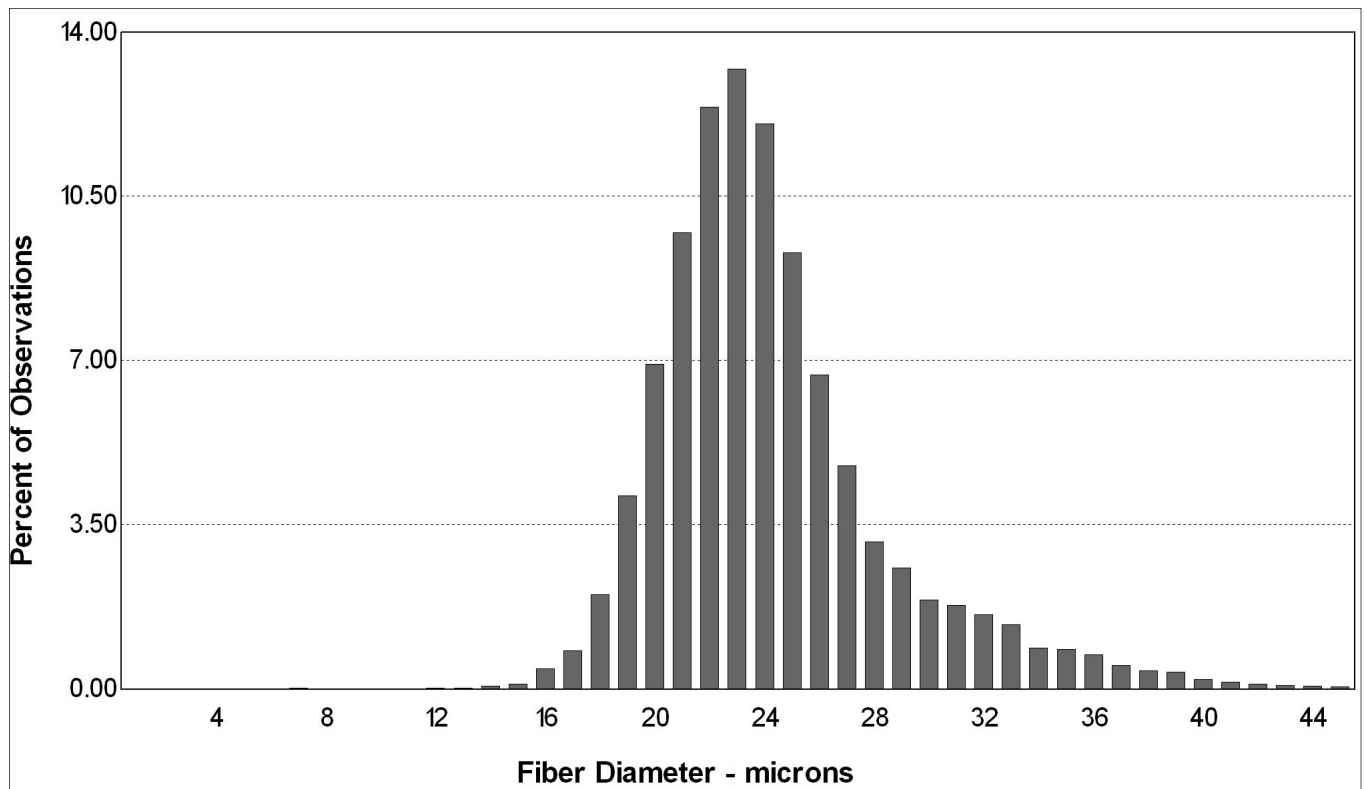
Date: 07/30/13
Shear ID: 39035
Test No: 463812

Animal and Sample Description

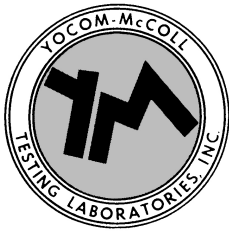
Animal Name:	BBC Christmas Gingerbelle	Date of Birth (Age):	12/25/11
ARI #:	32213089	Sample Location:	Side
Breed:	Alpaca(Huacaya)	Sample Date:	04/19/13
Sex:	Female	Previous Shear Date:	04/20/12
Color:	Med Brown	Total Fleece Wt (lbs):	6.30

Laboratory Data

Mean Fiber Diameter:	24.6 microns	Mean Staple Length:	112.0 mm
Standard Deviation:	5.3 microns	Length Standard Deviation:	2.5 mm
Coefficient of Variation:	21.7 %	Length Coefficient of Variation:	2.2 %
Spin Fineness:	24.0 microns	Mean Curvature:	32.4 deg/mm
Fibers Greater Than 30 microns:	9.8 %	SD Curvature:	19.6 deg/mm
Comfort Factor:	90.2 %		



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6909 Codorniz Rd
Colusa CA 95932-4016 USA

Date: 07/30/13
Shear ID: 39041
Test No: 463813

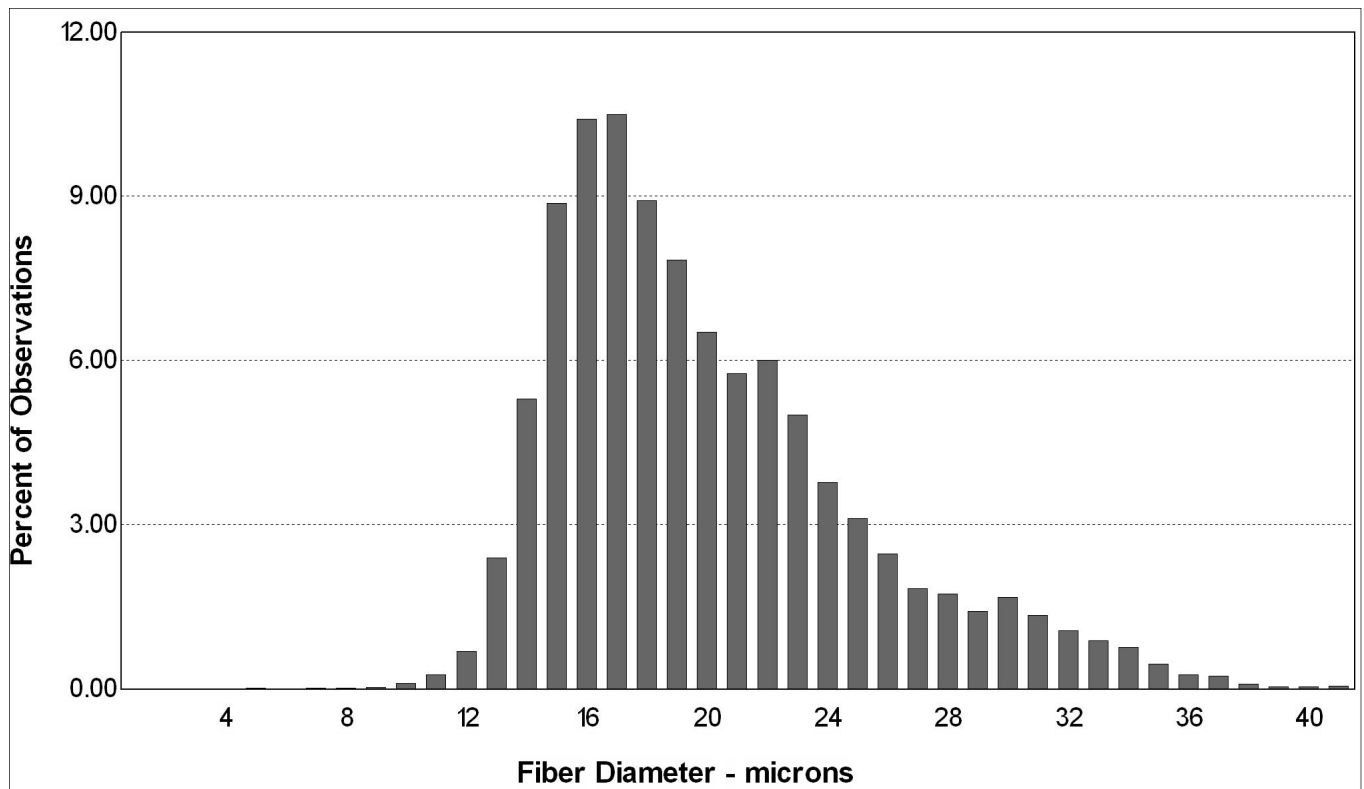
Animal and Sample Description

Animal Name: Coco Puff Chanel
ARI #: 31893701
Breed: Alpaca(Huacaya)
Sex: Female
Color: Med Brown

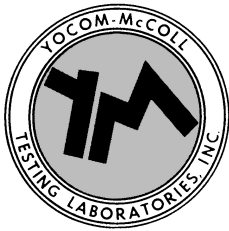
Date of Birth (Age): 08/27/08
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 04/20/12
Total Fleece Wt (lbs): 5.20

Laboratory Data

Mean Fiber Diameter:	20.1 microns	Mean Staple Length:	74.6 mm
Standard Deviation:	5.2 microns	Length Standard Deviation:	4.3 mm
Coefficient of Variation:	26.1 %	Length Coefficient of Variation:	5.8 %
Spin Fineness:	20.5 microns	Mean Curvature:	38.5 deg/mm
Fibers Greater Than 30 microns:	5.3 %	SD Curvature:	24.2 deg/mm
Comfort Factor:	94.7 %		



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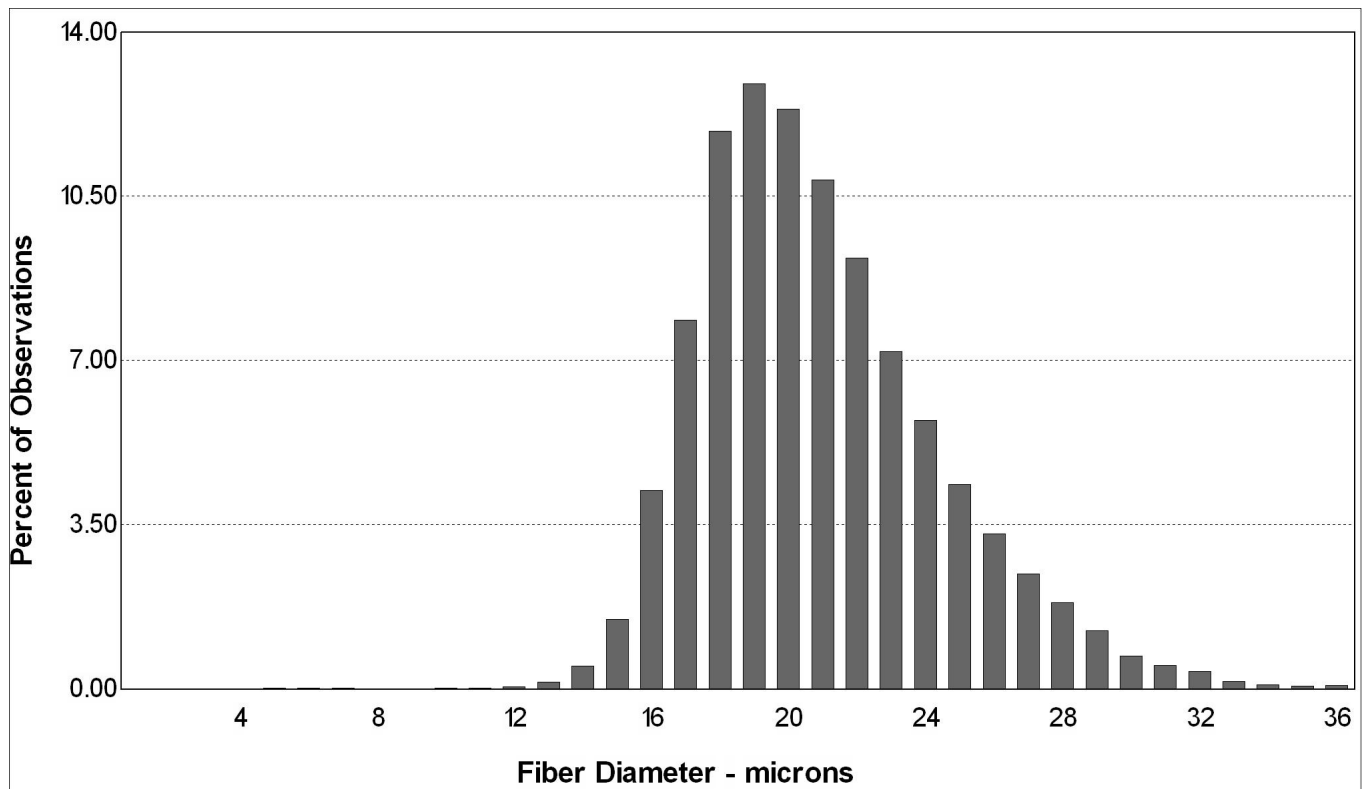
Date: 07/30/13
Shear ID: 39047
Test No: 463814

Animal and Sample Description

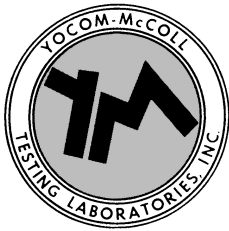
Animal Name:	River's Crystal Kiernan	Date of Birth (Age):	05/13/12
ARI #:	32521467	Sample Location:	Side
Breed:	Alpaca(Huacaya)	Sample Date:	04/19/13
Sex:	Female	Previous Shear Date:	XX/XX/XX
Color:	Med Brown	Total Fleece Wt (lbs):	5.30

Laboratory Data

Mean Fiber Diameter:	21.0 microns	Mean Staple Length:	82.2 mm
Standard Deviation:	3.9 microns	Length Standard Deviation:	2.3 mm
Coefficient of Variation:	18.4 %	Length Coefficient of Variation:	2.8 %
Spin Fineness:	20.0 microns	Mean Curvature:	36.3 deg/mm
Fibers Greater Than 30 microns:	1.7 %	SD Curvature:	20.3 deg/mm
Comfort Factor:	98.3 %		



This Test Performed According to I.W.T.O Method 47



Yocom-McColl Testing Laboratories, Inc.

540 West Elk Place • Denver, Colorado 80216-1823 USA

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EMAIL: ymccoll@ymccoll.com

Optical Fiber Diameter Analyser (OFDA 100) Micron Test Report

Colusa Riverside Alpacas/David & Sheila Scroggins
6909 Codorniz Rd
Colusa CA 95932-4016 USA

Date: 07/30/13
Shear ID: 39040
Test No: 463815

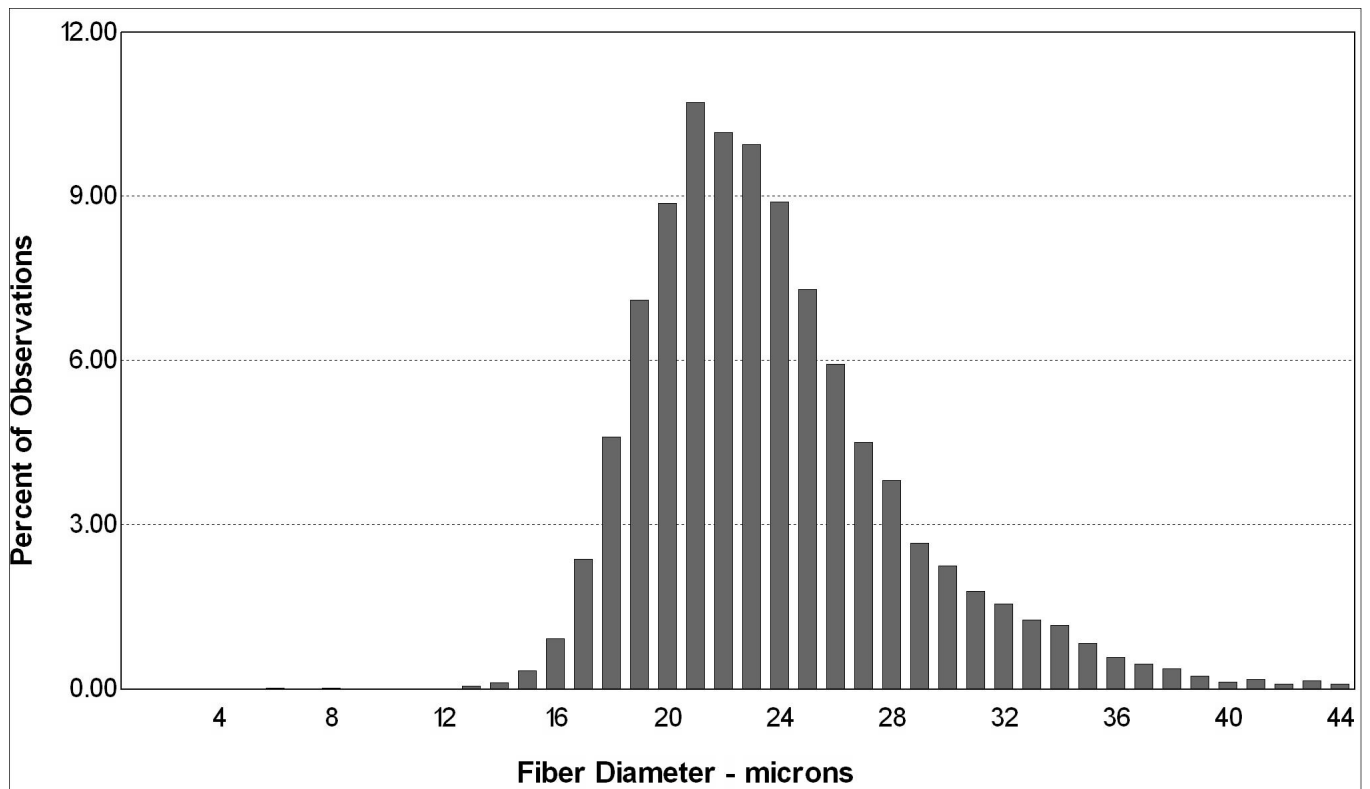
Animal and Sample Description

Animal Name: Cheveyo's Harmony
ARI #: 31346344
Breed: Alpaca(Huacaya)
Sex: Female
Color: Med Fawn

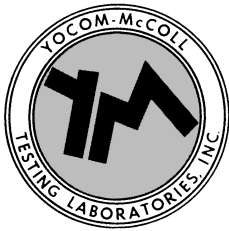
Date of Birth (Age): 03/13/10
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 04/20/12
Total Fleece Wt (lbs): 8.80

Laboratory Data

Mean Fiber Diameter:	23.9 microns	Mean Staple Length:	83.4 mm
Standard Deviation:	5.1 microns	Length Standard Deviation:	1.7 mm
Coefficient of Variation:	21.2 %	Length Coefficient of Variation:	2.0 %
Spin Fineness:	23.3 microns	Mean Curvature:	39.1 deg/mm
Fibers Greater Than 30 microns:	9.4 %	SD Curvature:	22.1 deg/mm
Comfort Factor:	90.6 %		



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Optical Fiber Diameter Analyser (OFDA 100) Micron Test Report

Colusa Riverside Alpacas/David & Sheila Scroggins
6909 Codorniz Rd
Colusa CA 95932-4016 USA

Date: 07/30/13
Shear ID: 39045
Test No: 463816

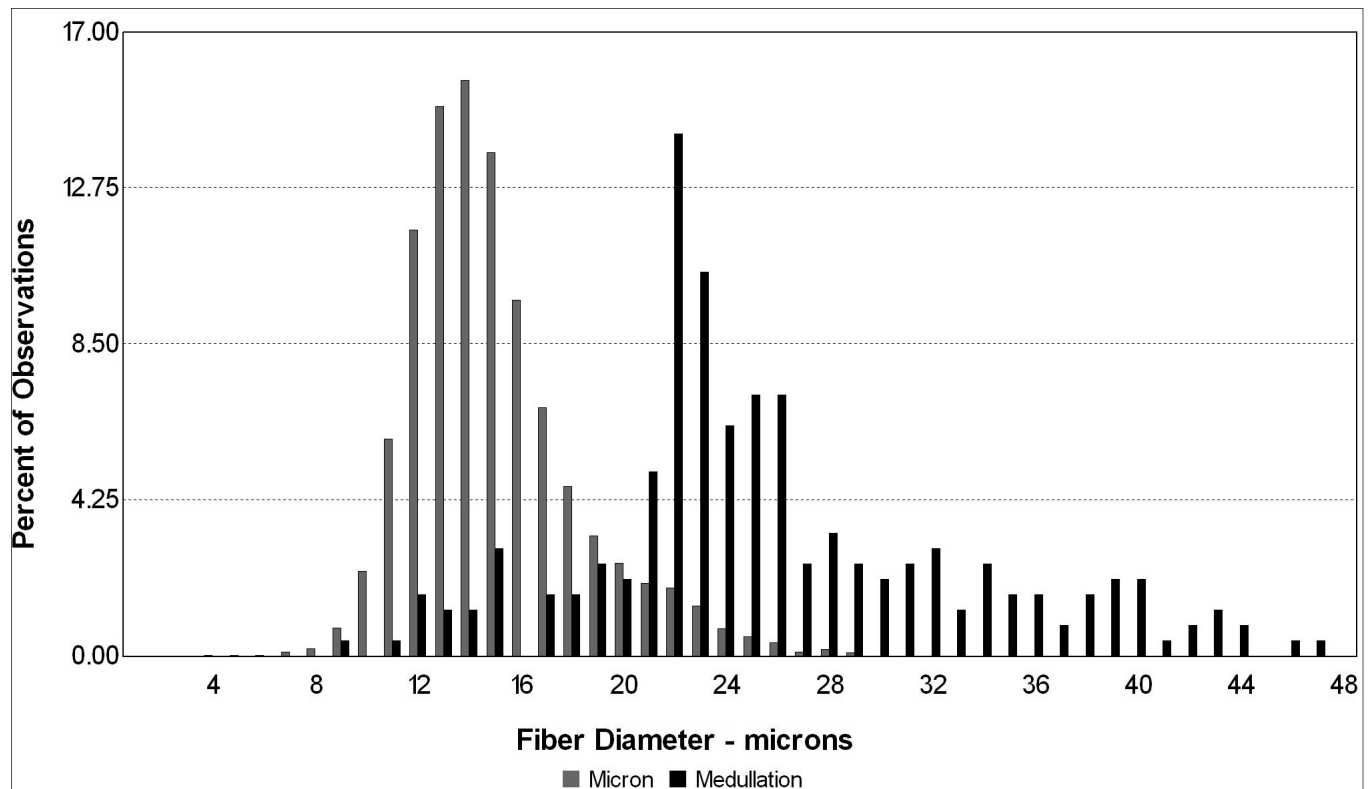
Animal and Sample Description

Animal Name: Prince William Saber
ARI #: 32521450
Breed: Alpaca(Huacaya)
Sex: Male
Color: White

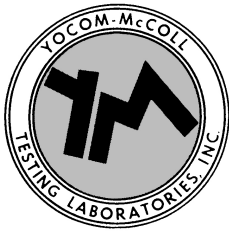
Date of Birth (Age): 06/16/12
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: XX/XX/XX
Total Fleece Wt (lbs): 4.20

Laboratory Data

Mean Fiber Diameter:	15.1 microns	Mean Staple Length:	89.6 mm
Standard Deviation:	3.6 microns	Length Standard Deviation:	3.1 mm
Coefficient of Variation:	23.8 %	Length Coefficient of Variation:	3.5 %
Spin Fineness:	15.0 microns	Mean Curvature:	58.8 deg/mm
Fibers Greater Than 30 microns:	0.5 %	SD Curvature:	30.6 deg/mm
Comfort Factor:	99.5 %	Medullated Fibers:	2.0 %



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Optical Fiber Diameter Analyser (OFDA 100) Micron Test Report

Colusa Riverside Alpacas/David & Sheila Scroggins
6909 Codorniz Rd
Colusa CA 95932-4016 USA

Date: 07/30/13
Shear ID: 39049
Test No: 463817

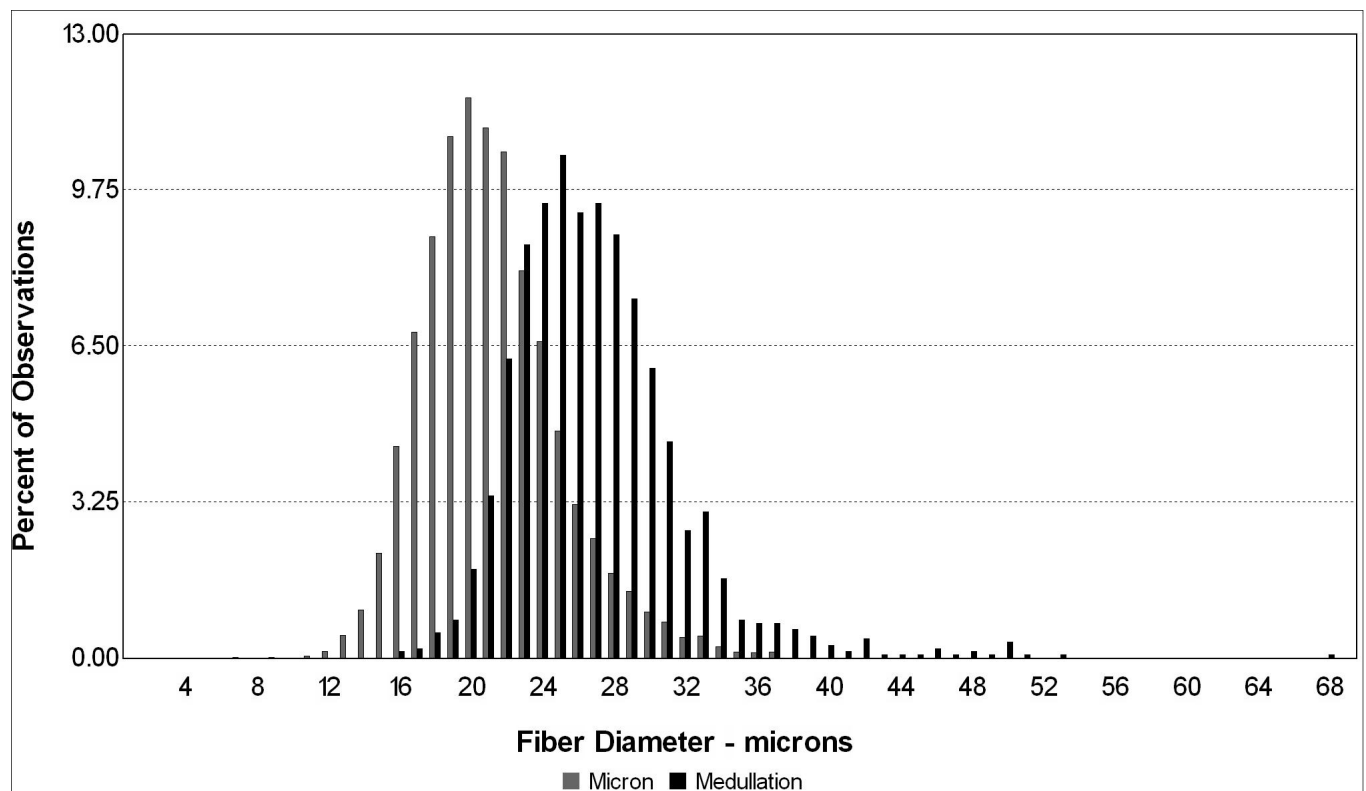
Animal and Sample Description

Animal Name: Rolex's White Diamond
ARI #: 1169836
Breed: Alpaca(Huacaya)
Sex: Female
Color: White

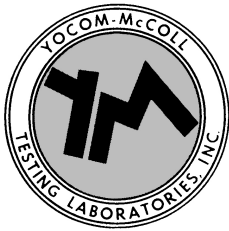
Date of Birth (Age): 07/10/04
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 04/20/12
Total Fleece Wt (lbs): 5.60

Laboratory Data

Mean Fiber Diameter:	21.3 microns	Mean Staple Length:	59.2 mm
Standard Deviation:	4.2 microns	Length Standard Deviation:	2.6 mm
Coefficient of Variation:	19.5 %	Length Coefficient of Variation:	4.4 %
Spin Fineness:	20.5 microns	Mean Curvature:	39.9 deg/mm
Fibers Greater Than 30 microns:	2.8 %	SD Curvature:	22.7 deg/mm
Comfort Factor:	97.2 %	Medullated Fibers:	14.1 %



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Optical Fiber Diameter Analyser (OFDA 100) Micron Test Report

Colusa Riverside Alpacas/David & Sheila Scroggins
6909 Codorniz Rd
Colusa CA 95932-4016 USA

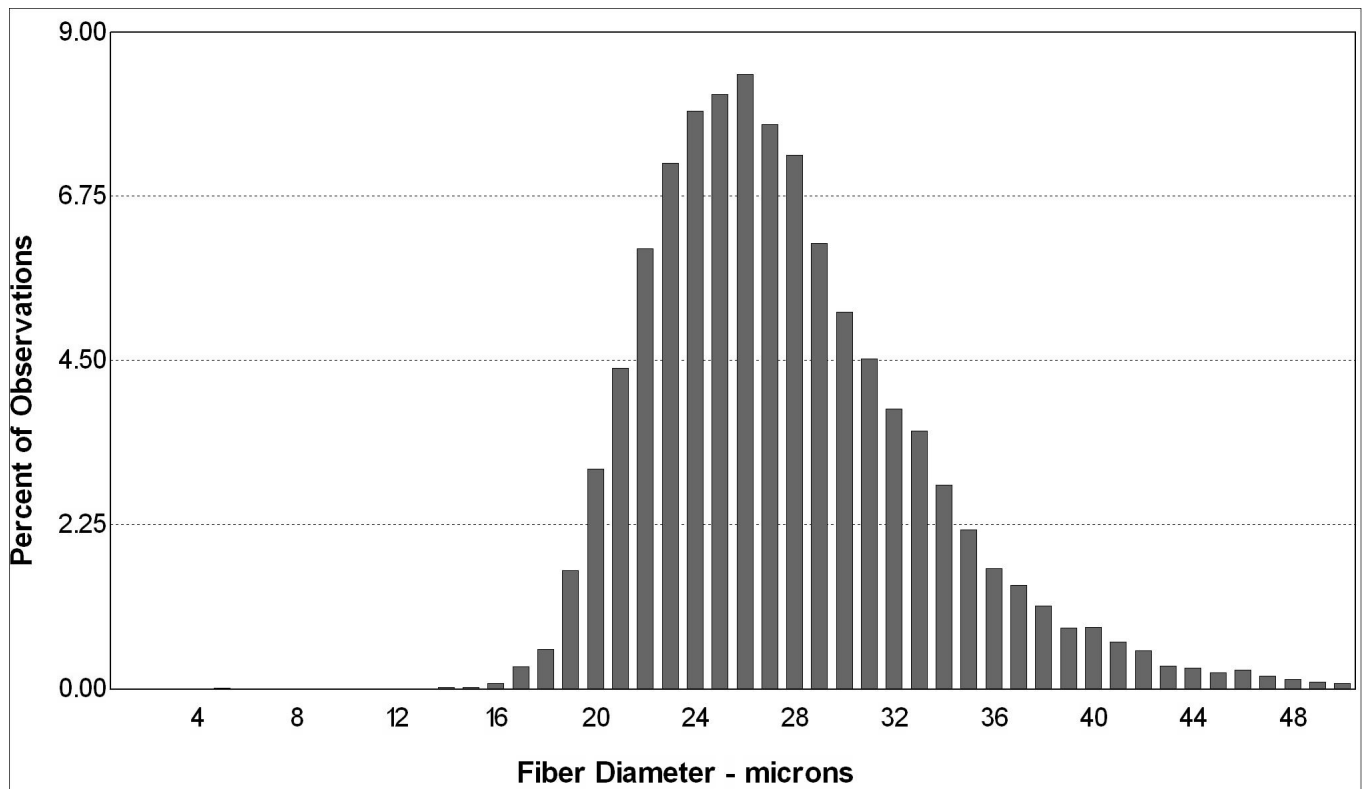
Date: 07/30/13
Shear ID: 39032
Test No: 463818

Animal and Sample Description

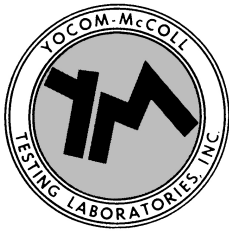
Animal Name:	Arapaho Prodigy's Pheromone	Date of Birth (Age):	03/02/08
ARI #:	31117067	Sample Location:	Side
Breed:	Alpaca(Huacaya)	Sample Date:	04/19/13
Sex:	Female	Previous Shear Date:	04/20/12
Color:	Lt Fawn	Total Fleece Wt (lbs):	7.50

Laboratory Data

Mean Fiber Diameter:	27.8 microns	Mean Staple Length:	83.4 mm
Standard Deviation:	5.8 microns	Length Standard Deviation:	1.1 mm
Coefficient of Variation:	20.8 %	Length Coefficient of Variation:	1.4 %
Spin Fineness:	27.0 microns	Mean Curvature:	32.4 deg/mm
Fibers Greater Than 30 microns:	26.0 %	SD Curvature:	19.5 deg/mm
Comfort Factor:	74.0 %		



This Test Performed According to I.W.T.O Method 47



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Optical Fiber Diameter Analyser (OFDA 100) Micron Test Report

Colusa Riverside Alpacas/David & Sheila Scroggins
6909 Codorniz Rd
Colusa CA 95932-4016 USA

Date: 07/30/13

Test No: 463819

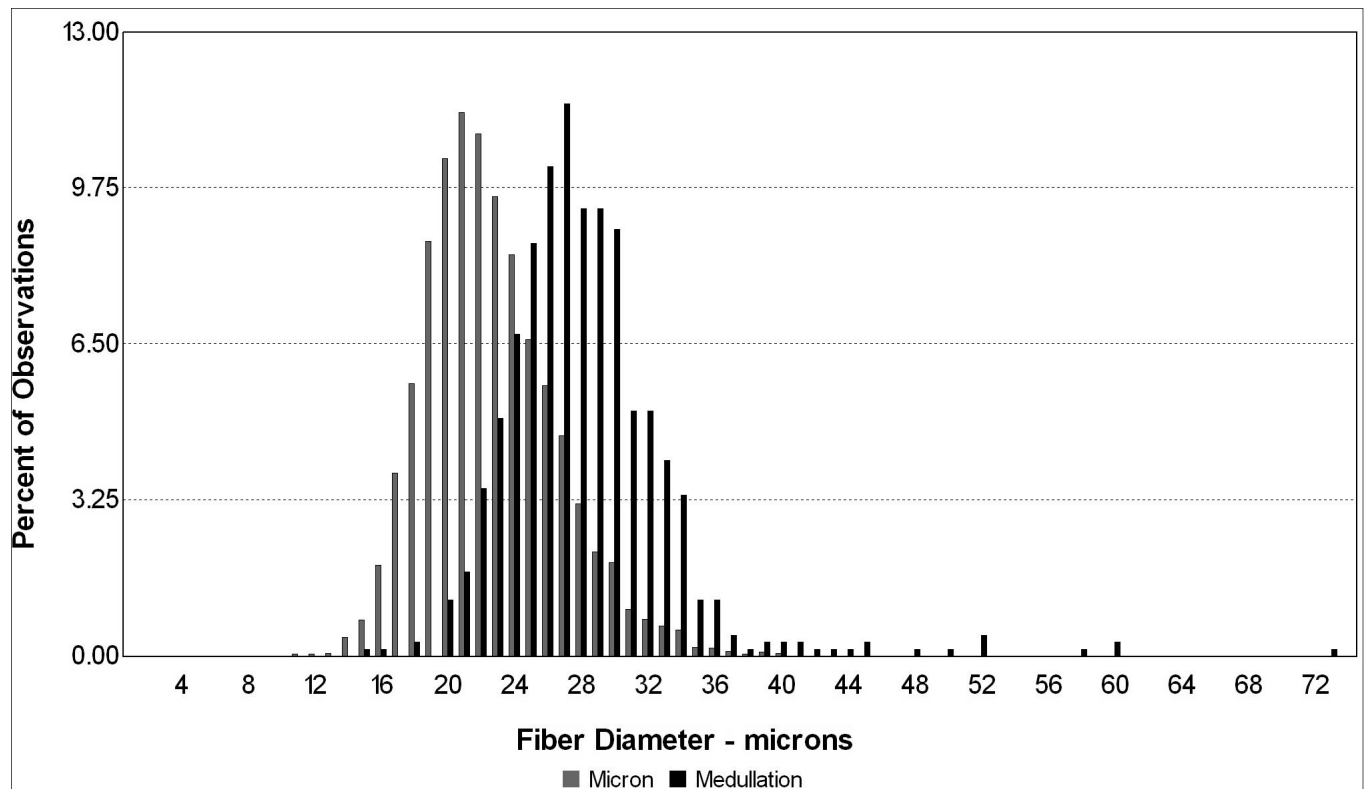
Animal and Sample Description

Animal Name: MSA Hemingway's Bogart
ARI #: 828970
Breed: Alpaca(Huacaya)
Sex: Male
Color: White

Date of Birth (Age): 06/19/01
Sample Location: Side
Sample Date: 04/19/13
Previous Shear Date: 06/25/12
Total Fleece Wt (lbs): 7.60

Laboratory Data

Mean Fiber Diameter:	22.7 microns	Mean Staple Length:	73.0 mm
Standard Deviation:	4.4 microns	Length Standard Deviation:	5.6 mm
Coefficient of Variation:	19.1 %	Length Coefficient of Variation:	7.6 %
Spin Fineness:	21.8 microns	Mean Curvature:	47.3 deg/mm
Fibers Greater Than 30 microns:	4.0 %	SD Curvature:	25.5 deg/mm
Comfort Factor:	96.0 %	Medullated Fibers:	13.9 %



This Test Performed According to I.W.T.O Method 47