



PRECISION
FIBRE
ANALYSIS

AUSTRALIA

SEMINAR DEMONSTRATION REPORT

Genetic Focus

Three Point Grid Fibre Report

SEMINAR DEMONSTRATION

Australia | Huacaya + Suri | 2024-2026

6 alpacas | 3 Huacaya + 3 Suri

Precision Fibre Analysis report presentation

THREE-SITE FIBRE MEASUREMENT

GENETIC FOCUS REPORT

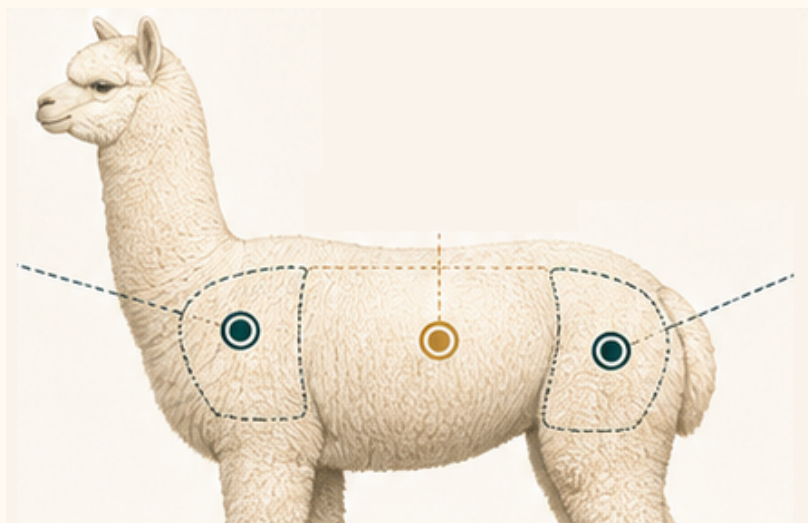
Important report boundary

This report presents objective OFDA 2000 measurements across linked Shoulder, Mid-side and Hip/Hind sites, peer context and Annual Tracking. It is not an Estimated Breeding Value, genomic prediction, mating recommendation or guarantee.

Precision Fibre Analysis | Prepared by Art of Fibre

Your Three Point Grid record

6 alpacas | one linked record across Shoulder, Mid-side and Hip/Hind



Three linked sampling areas

Shoulder

Mid-side

Hip/Hind

What the Grid adds

The three sites remain together so differences across the sampled fleece can be seen, rather than relying on the Mid-side alone.

What this seminar record contains

6 alpacas | 18 current site measurements | 4 animals with repeat-year complete Grid histories.

What Across Fleece difference means

The spread from the lowest to highest site value. SD Across is a separate within-sample measure and remains visible alongside it.

Across Fleece Comparison

How AFD, SD Across and staple length vary between Shoulder, Mid-side and Hip/Hind

HUACAYA | 3 alpacas

Site	Avg AFD	Avg SD Across	Avg staple
Shoulder	20.6	4.57	102
Mid-side	19.6	4.12	106
Hip/Hind	21.8	5.06	97

Mean animal-level Across Fleece difference

AFD diff.
2.20
micron

SD Across diff.
0.94
micron

Staple diff.
9
mm

SURI | 3 alpacas

Site	Avg AFD	Avg SD Across	Avg staple
Shoulder	22.1	5.83	148
Mid-side	21.7	5.63	153
Hip/Hind	22.9	6.15	145

Mean animal-level Across Fleece difference

AFD diff.
1.27
micron

SD Across diff.
0.51
micron

Staple diff.
8
mm

Huacaya and Suri averages are calculated independently. Across Fleece difference is the mean of each animal's Shoulder-to-Hip/Hind site range within that breed.

Complete Grid results at a glance

Every current value kept with its alpaca and sampling site - Huacaya

Wattle | H01

3 years | Female | White | Huacaya

Site	AFD	SD Across	SD	CEM	Comfort	SD Along	Curv.	Staple	Fibres <15	Min dia.	Max dia.
Shoulder	19.0	4.10	3.7	6.1	99.9	1.2	47.0	101	14.0	17.1	21.5
Mid-side	18.8	4.00	3.6	5.9	99.9	1.2	47.5	105	14.6	16.9	21.3
Hip/Hind	19.3	4.30	3.8	6.3	99.8	1.3	45.5	99	12.9	17.2	22.0

Across Fleece difference

AFD 0.50 micron

SD Across 0.30 micron

Staple 6 mm

Jarrah | H02

3 years | Female | White | Huacaya

Site	AFD	SD Across	SD	CEM	Comfort	SD Along	Curv.	Staple	Fibres <15	Min dia.	Max dia.
Shoulder	21.5	5.10	4.5	7.4	97.1	1.5	41.0	97	7.4	19.1	24.6
Mid-side	18.8	4.00	3.6	5.9	99.9	1.2	44.0	101	14.6	16.9	21.3
Hip/Hind	24.2	6.20	5.1	8.4	87.2	1.9	38.0	88	3.6	21.2	28.2

Across Fleece difference

AFD 5.40 micron

SD Across 2.20 micron

Staple 13 mm

Mallee | H03

2 years | Male | Medium Brown | Huacaya

Site	AFD	SD Across	SD	CEM	Comfort	SD Along	Curv.	Staple	Fibres <15	Min dia.	Max dia.
Shoulder	21.4	4.52	3.9	8.5	98.0	1.6	46.1	108	5.8	17.9	26.3
Mid-side	21.1	4.35	3.8	8.3	98.4	1.5	45.5	112	6.2	17.6	26.0
Hip/Hind	21.8	4.67	4.0	8.6	97.6	1.7	44.0	104	5.1	18.3	26.8

Across Fleece difference

AFD 0.70 micron

SD Across 0.32 micron

Staple 8 mm

Complete Grid results at a glance

Every current value kept with its alpaca and sampling site - Suri

Opal | S01

4 years | Female | White | Suri

Site	AFD	SD Across	SD	CEM	Comfort	SD Along	Curv.	Staple	Fibres <15	Min dia.	Max dia.
Shoulder	20.4	5.30	4.1	6.7	99.0	1.4	19.0	148	9.4	18.2	23.3
Mid-side	20.2	5.20	4.0	6.6	99.3	1.4	19.5	150	9.7	18.0	23.1
Hip/Hind	20.7	5.50	4.2	6.9	98.7	1.5	18.5	145	8.7	18.3	23.9

Across Fleece difference

AFD 0.50 micron

SD Across 0.30 micron

Staple 5 mm

Banksia | S02

2 years | Male | Light Fawn | Suri

Site	AFD	SD Across	SD	CEM	Comfort	SD Along	Curv.	Staple	Fibres <15	Min dia.	Max dia.
Shoulder	22.5	6.90	5.4	8.9	91.8	1.9	17.5	140	8.2	19.5	26.5
Mid-side	21.7	6.60	5.2	8.6	94.5	1.8	18.0	148	9.9	18.8	25.5
Hip/Hind	24.3	7.50	5.8	9.5	83.7	2.1	16.5	137	5.4	20.9	28.7

Across Fleece difference

AFD 2.60 micron

SD Across 0.90 micron

Staple 11 mm

Pearl | S03

5 years | Female | Medium Fawn | Suri

Site	AFD	SD Across	SD	CEM	Comfort	SD Along	Curv.	Staple	Fibres <15	Min dia.	Max dia.
Shoulder	23.5	5.28	4.2	7.7	97.0	1.6	18.2	157	4.2	19.6	28.2
Mid-side	23.1	5.10	4.1	7.4	97.6	1.5	18.8	160	4.5	19.2	27.8
Hip/Hind	23.8	5.44	4.3	7.9	96.5	1.7	17.7	152	3.8	20.0	28.7

Across Fleece difference

AFD 0.70 micron

SD Across 0.34 micron

Staple 8 mm

Wattle

3-year-old White Huacaya female | Animal ID H01 | latest complete Grid 2026

Shoulder		Mid-side		Hip/Hind		Across Fleece	
AFD	19.0 micron	AFD	18.8 micron	AFD	19.3 micron	AFD	0.50 micron
SD Across	4.10 micron	SD Across	4.00 micron	SD Across	4.30 micron	SD Across	0.30 micron
Staple	101 mm	Staple	105 mm	Staple	99 mm	Staple	6 mm

Mid-side peer context

Art of Fibre Combined Interim | Huacaya | White | age 3 | Female | n=120

AFD		90th percentile	12th finest of 120
SD Across		74th percentile	31st lowest of 120
SD		68th percentile	39th lowest of 120
CEM		79th percentile	25th lowest of 120
Comfort Factor		95th percentile	6th highest of 120

Annual Tracking

Year	AFD diff.	SD Across diff.	Staple diff.
2024	0.70	0.50	10
2025	0.60	0.40	7
2026	0.50	0.30	6

Differences: micron / micron / mm.

3 complete years on record. Every site and every recorded year follows on the next page.

Wattle - complete Grid history

Every recorded year and all Shoulder, Mid-side and Hip/Hind measurements

Year	Site	AFD	SD Across	SD	CEM	Comfort	SD Along	Curv.	Staple	Fibres <15	Min dia.	Max dia.
2024	Shoulder	17.7	3.80	3.3	5.5	100.0	1.1	48.5	96	22.0	15.9	20.0
2024	Mid-side	17.4	3.60	3.2	5.3	100.0	1.1	49.0	100	22.7	15.6	19.7
2024	Hip/Hind	18.1	4.10	3.5	5.8	99.9	1.2	47.2	90	20.4	16.2	20.8
2025	Shoulder	18.5	4.00	3.5	5.8	100.0	1.2	47.8	100	16.7	16.5	21.0
2025	Mid-side	18.2	3.80	3.4	5.6	100.0	1.2	48.2	103	17.3	16.3	20.7
2025	Hip/Hind	18.8	4.20	3.6	6.0	99.9	1.3	46.4	96	15.8	16.8	21.4
2026	Shoulder	19.0	4.10	3.7	6.1	99.9	1.2	47.0	101	14.0	17.1	21.5
2026	Mid-side	18.8	4.00	3.6	5.9	99.9	1.2	47.5	105	14.6	16.9	21.3
2026	Hip/Hind	19.3	4.30	3.8	6.3	99.8	1.3	45.5	99	12.9	17.2	22.0

All recorded Grid years remain linked by animal. Annual differences describe measured phenotype, not genetic change. The Mid-side result remains part of the linked Grid record and should not be interpreted as a whole-fleece result on its own.

Jarrah

3-year-old White Huacaya female | Animal ID H02 | latest complete Grid 2026

Shoulder		Mid-side		Hip/Hind		Across Fleece	
AFD	21.5 micron	AFD	18.8 micron	AFD	24.2 micron	AFD	5.40 micron
SD Across	5.10 micron	SD Across	4.00 micron	SD Across	6.20 micron	SD Across	2.20 micron
Staple	97 mm	Staple	101 mm	Staple	88 mm	Staple	13 mm

Mid-side peer context

Art of Fibre Combined Interim | Huacaya | White | age 3 | Female | n=120

AFD		90th percentile	12th finest of 120
SD Across		74th percentile	31st lowest of 120
SD		68th percentile	39th lowest of 120
CEM		79th percentile	25th lowest of 120
Comfort Factor		95th percentile	6th highest of 120

Annual Tracking

Year	AFD diff.	SD Across diff.	Staple diff.
2025	4.90	1.85	11
2026	5.40	2.20	13

Differences: micron / micron / mm.

2 complete years on record. Every site and every recorded year follows on the next page.

Jarrah - complete Grid history

Every recorded year and all Shoulder, Mid-side and Hip/Hind measurements

Year	Site	AFD	SD Across	SD	CEM	Comfort	SD Along	Curv.	Staple	Fibres <15	Min dia.	Max dia.
2025	Shoulder	20.5	4.70	4.1	6.8	98.6	1.4	42.0	95	9.5	18.2	23.7
2025	Mid-side	18.4	3.85	3.5	5.7	100.0	1.2	44.8	99	16.9	16.5	20.9
2025	Hip/Hind	23.3	5.70	4.7	7.7	91.5	1.7	39.0	88	4.7	20.3	27.0
2026	Shoulder	21.5	5.10	4.5	7.4	97.1	1.5	41.0	97	7.4	19.1	24.6
2026	Mid-side	18.8	4.00	3.6	5.9	99.9	1.2	44.0	101	14.6	16.9	21.3
2026	Hip/Hind	24.2	6.20	5.1	8.4	87.2	1.9	38.0	88	3.6	21.2	28.2

All recorded Grid years remain linked by animal. Annual differences describe measured phenotype, not genetic change. The Mid-side result remains part of the linked Grid record and should not be interpreted as a whole-fleece result on its own.

Mallee

2-year-old Medium Brown Huacaya male | Animal ID H03 | latest complete Grid 2026

Shoulder		Mid-side		Hip/Hind		Across Fleece	
AFD	21.4 micron	AFD	21.1 micron	AFD	21.8 micron	AFD	0.70 micron
SD Across	4.52 micron	SD Across	4.35 micron	SD Across	4.67 micron	SD Across	0.32 micron
Staple	108 mm	Staple	112 mm	Staple	104 mm	Staple	8 mm

Mid-side peer context

Art of Fibre Combined Interim | Huacaya | Medium Brown | age 2 | Male | n=44

AFD		68th percentile	14th finest of 44
SD Across		72nd percentile	13th lowest of 44
SD		66th percentile	15th lowest of 44
CEM		35th percentile	28th lowest of 44
Comfort Factor		84th percentile	7th highest of 44

Annual Tracking

Year	AFD diff.	SD Across diff.	Staple diff.
2026	0.70	0.32	8

Differences: micron / micron / mm.

Baseline established - first complete Grid year on record.

Opal

4-year-old White Suri female | Animal ID S01 | latest complete Grid 2026

Shoulder		Mid-side		Hip/Hind		Across Fleece	
AFD	20.4 micron	AFD	20.2 micron	AFD	20.7 micron	AFD	0.50 micron
SD Across	5.30 micron	SD Across	5.20 micron	SD Across	5.50 micron	SD Across	0.30 micron
Staple	148 mm	Staple	150 mm	Staple	145 mm	Staple	5 mm

Mid-side peer context

Art of Fibre Combined Interim | Suri | White | age 4 | Female | n=112

AFD		82nd percentile	20th finest of 112
SD Across		76th percentile	27th lowest of 112
SD		72nd percentile	32nd lowest of 112
CEM		78th percentile	25th lowest of 112
Comfort Factor		93rd percentile	8th highest of 112

Annual Tracking

Year	AFD diff.	SD Across diff.	Staple diff.
2024	0.80	0.60	10
2025	0.70	0.50	8
2026	0.50	0.30	5

Differences: micron / micron / mm.

3 complete years on record. Every site and every recorded year follows on the next page.

Opal - complete Grid history

Every recorded year and all Shoulder, Mid-side and Hip/Hind measurements

Year	Site	AFD	SD Across	SD	CEM	Comfort	SD Along	Curv.	Staple	Fibres <15	Min dia.	Max dia.
2024	Shoulder	19.3	4.90	3.9	6.4	99.7	1.3	20.0	141	13.5	17.2	22.0
2024	Mid-side	19.0	4.70	3.8	6.3	99.8	1.3	20.5	145	14.6	16.9	21.7
2024	Hip/Hind	19.8	5.30	4.2	6.9	99.2	1.5	19.0	135	12.7	17.4	23.0
2025	Shoulder	19.9	5.10	4.0	6.6	99.4	1.4	19.5	144	11.0	17.7	22.8
2025	Mid-side	19.6	5.00	3.9	6.4	99.6	1.4	20.0	148	11.9	17.4	22.5
2025	Hip/Hind	20.3	5.50	4.2	6.9	99.0	1.5	18.5	140	10.3	17.9	23.5
2026	Shoulder	20.4	5.30	4.1	6.7	99.0	1.4	19.0	148	9.4	18.2	23.3
2026	Mid-side	20.2	5.20	4.0	6.6	99.3	1.4	19.5	150	9.7	18.0	23.1
2026	Hip/Hind	20.7	5.50	4.2	6.9	98.7	1.5	18.5	145	8.7	18.3	23.9

All recorded Grid years remain linked by animal. Annual differences describe measured phenotype, not genetic change. The Mid-side result remains part of the linked Grid record and should not be interpreted as a whole-fleece result on its own.

Banksia

2-year-old Light Fawn Suri male | Animal ID S02 | latest complete Grid 2026

Shoulder

AFD	22.5 micron
SD Across	6.90 micron
Staple	140 mm

Mid-side

AFD	21.7 micron
SD Across	6.60 micron
Staple	148 mm

Hip/Hind

AFD	24.3 micron
SD Across	7.50 micron
Staple	137 mm

Across Fleece

AFD	2.60 micron
SD Across	0.90 micron
Staple	11 mm

Mid-side peer context

No defensible same-breed comparison available in this seminar context.

AFD Peer comparison unavailable

SD Across Peer comparison unavailable

SD Peer comparison unavailable

CEM Peer comparison unavailable

Comfort Factor Peer comparison unavailable

Annual Tracking

Year	AFD diff.	SD Across diff.	Staple diff.
2026	2.60	0.90	11

Differences: micron / micron / mm.

Baseline established - first complete Grid year on record.

Pearl

5-year-old Medium Fawn Suri female | Animal ID S03 | latest complete Grid 2026

Shoulder		Mid-side		Hip/Hind		Across Fleece	
AFD	23.5 micron	AFD	23.1 micron	AFD	23.8 micron	AFD	0.70 micron
SD Across	5.28 micron	SD Across	5.10 micron	SD Across	5.44 micron	SD Across	0.34 micron
Staple	157 mm	Staple	160 mm	Staple	152 mm	Staple	8 mm

Mid-side peer context

Art of Fibre Combined Interim | Suri | Medium Fawn | age 5 | Female | n=28

AFD		59th percentile	12th finest of 28
SD Across		63rd percentile	10th lowest of 28
SD		18th percentile	23rd lowest of 28
CEM		55th percentile	13th lowest of 28
Comfort Factor		74th percentile	8th highest of 28

Annual Tracking

Year	AFD diff.	SD Across diff.	Staple diff.
2025	0.70	0.35	8
2026	0.70	0.34	8

Differences: micron / micron / mm.

2 complete years on record. Every site and every recorded year follows on the next page.

Pearl - complete Grid history

Every recorded year and all Shoulder, Mid-side and Hip/Hind measurements

Year	Site	AFD	SD Across	SD	CEM	Comfort	SD Along	Curv.	Staple	Fibres <15	Min dia.	Max dia.
2025	Shoulder	22.9	5.05	4.1	7.4	97.7	1.5	18.7	151	5.4	19.0	27.3
2025	Mid-side	22.5	4.90	4.0	7.2	98.1	1.5	19.2	155	5.7	18.7	27.0
2025	Hip/Hind	23.2	5.25	4.2	7.6	97.0	1.6	18.0	147	4.9	19.4	28.1
2026	Shoulder	23.5	5.28	4.2	7.7	97.0	1.6	18.2	157	4.2	19.6	28.2
2026	Mid-side	23.1	5.10	4.1	7.4	97.6	1.5	18.8	160	4.5	19.2	27.8
2026	Hip/Hind	23.8	5.44	4.3	7.9	96.5	1.7	17.7	152	3.8	20.0	28.7

All recorded Grid years remain linked by animal. Annual differences describe measured phenotype, not genetic change. The Mid-side result remains part of the linked Grid record and should not be interpreted as a whole-fleece result on its own.

Keep building the record

Comparable annual measurement turns a single three-site result into a useful history

Keep identity and sites linked

Use the same animal ID and keep Shoulder, Mid-side and Hip/Hind as three distinct but linked sampling sites.

Compare Across Fleece spread

A smaller site-to-site difference indicates closer agreement across the sampled sites; it is not proof that every part of the fleece is uniform.

Use Annual Tracking

Repeat the same three-site method each year. The history shows how measured phenotype changes over time without converting those changes into genetic

Use peer position carefully

Peer context applies to the submitted Mid-side comparison traits. It does not replace the direct comparison of Shoulder, Mid-side and Hip/Hind

Measure the fibre. Understand the context. Build the history.

Three Point Grid adds site-to-site context while keeping every measurement linked to the animal and year.