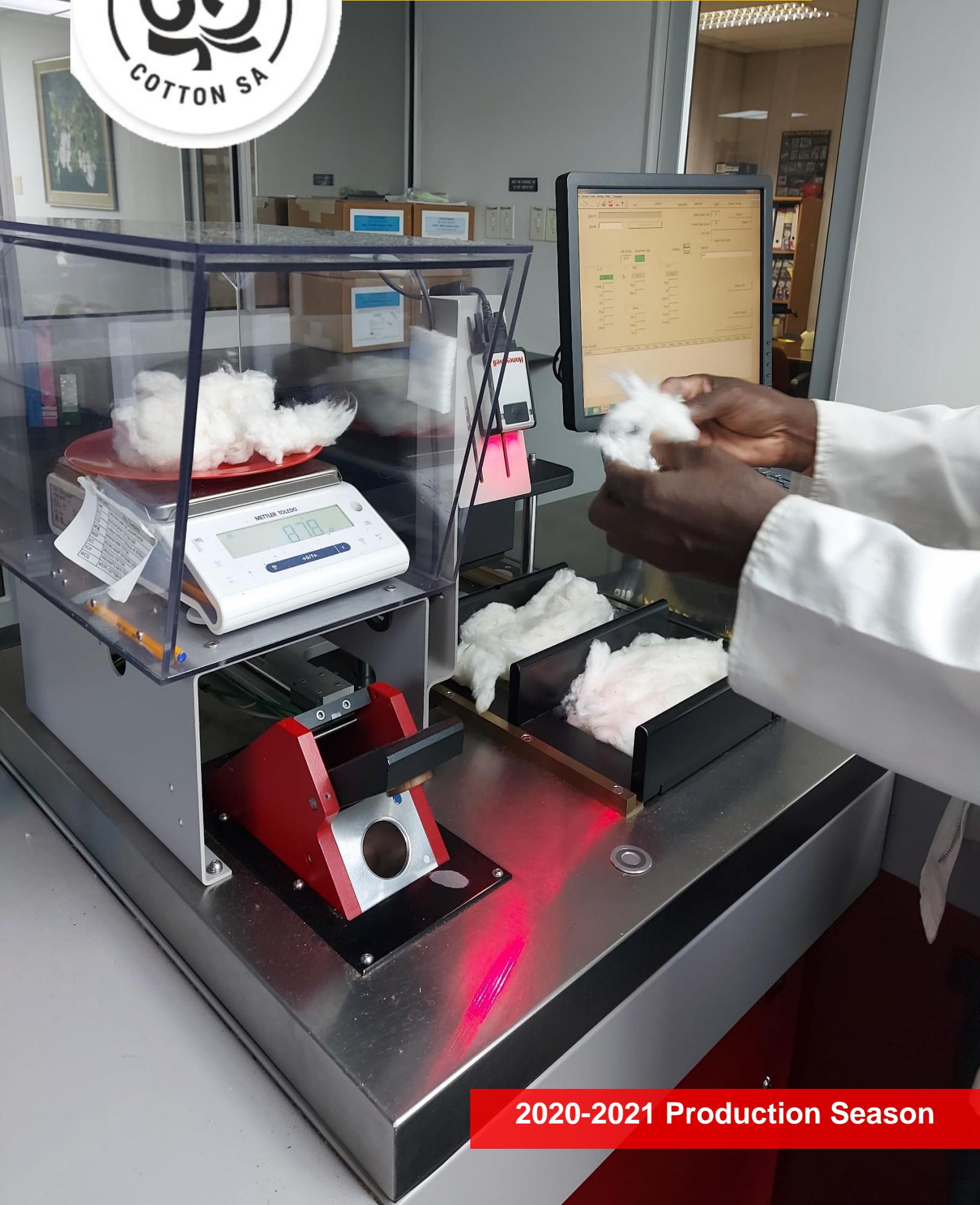




COTTON QUALITY REPORT

QUALITY CONTROL DIVISION



2020-2021 Production Season

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Crop Summary

The initial testing for the 2020 - 2021 local cotton production season began on 12th of May 2021, and the last samples were tested on the 28th of October 2021. A total of 74 094 bales were produced and tested in this period.

Grades

Visual grade classified manually by cotton classers according to the USDA upland cotton grading standards.

Table 1: Summary of the grades achieved for the entire crop.

Grade	Number of bales	Percentage
Good Middling (GM)	32 640	44,1%
Strict Middling (SM)	22 103	29,8%
Middling (MIDD)	16 580	22,4%
Strict Low Middling (SLM)	2 724	3,7%
Low Middling (LM)	47	0,1%
Strict Good Ordinary (SGO)	0	0,0%
Total	74 094	100%

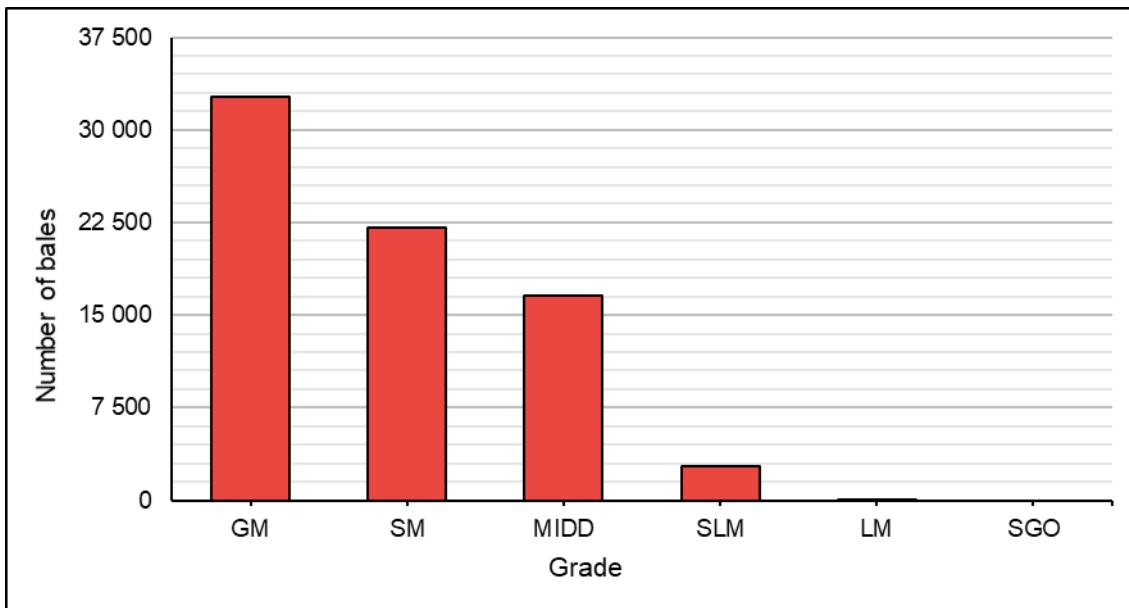


Figure 1: Distribution of the entire crop by grade.

Length

A measure of the Upper Half Mean Length (UHML) of fibres within a sample. The UHML of a sample corresponds to the classer's staple length (Uster 2008).

Table 2: Summary of the length achieved for the entire crop.

Length	Description	Number of bales	Percentage
0,0 - 0,97	less than 1"	394	0,5%
0,98 - 1,04	1 1/32"	3 407	4,6%
1,05 - 1,07	1 1/16"	8 286	11,2%
1,08 - 1,10	1 3/32"	8 945	12,1%
1,11 - 1,13	1 1/8"	14 912	20,1%
1,14 - 1,16	1 5/32"	15 669	21,1%
1,17 - 1,40	1 3/16" and greater	22 481	30,3%
Total		74 094	100%

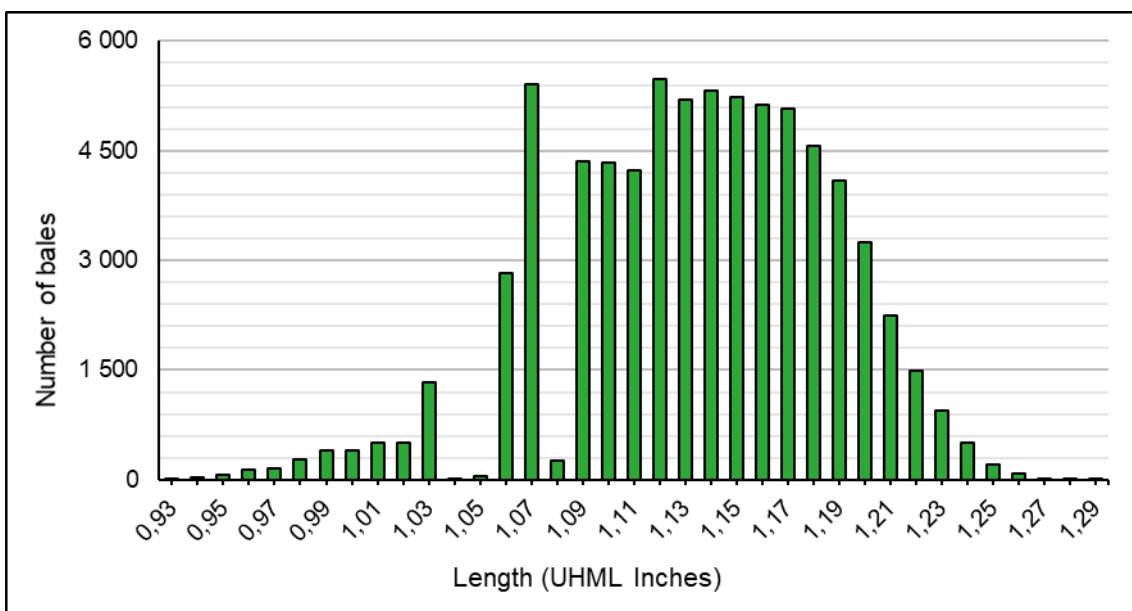


Figure 2: Distribution of the entire crop by length.

Strength

The tensile force required to break a bundle of cotton fibres within a sample (Uster 2008). Strength values above 28,0 grams/tex are preferred by spinners and other purchasers (shown in Figure 3).

Table 3: Summary of the strength achieved for the entire crop.

Strength	Description	Number of bales	Percentage
0,0 - 21,99	Very weak	297	0,4%
22,0 - 24,49	Weak	4 042	5,5%
24,5 - 27,99	Medium	24 770	33,4%
28,0 - 31,99	Strong	41 380	55,8%
32,0 - 45,00	Very strong	3 605	4,9%
Total		74 094	100%

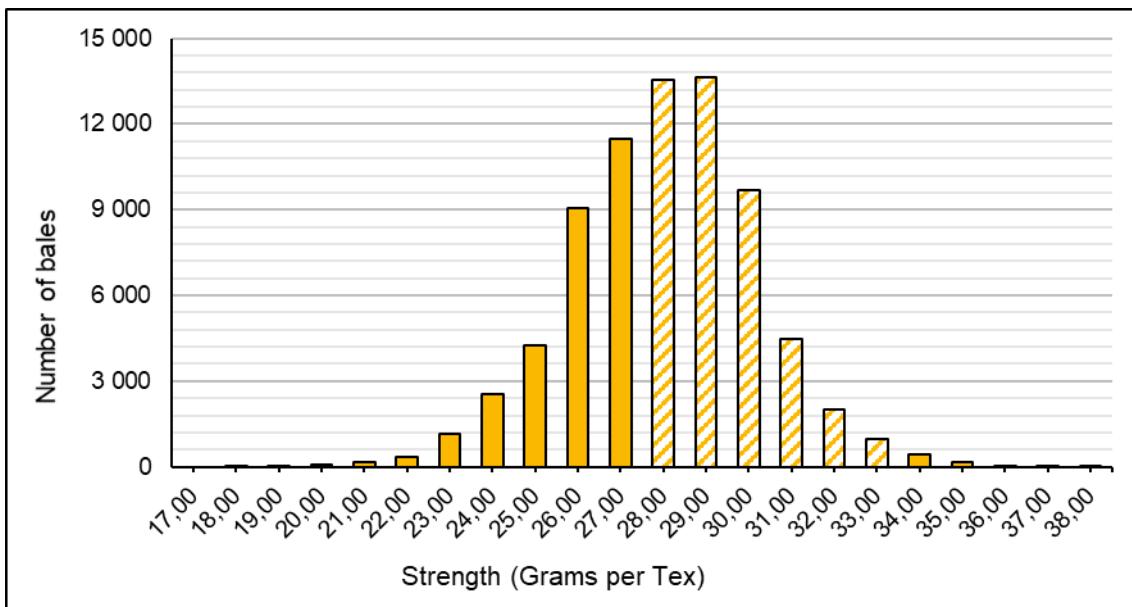


Figure 3: Distribution of the entire crop by strength.

Micronaire

A description of the thickness of individual cotton fibres within a sample. Measured by passing air through a sample of constant weight and measuring the drop in air pressure (Uster 2008). Micronaire values between 3,5 and 4,9 are acceptable. However, the preferred micronaire value is between 3,8 and 4,2 (shown in Figure 4).

Table 4: Summary of the micronaire achieved for the entire crop.

Micronaire	Description	Number of bales	Percentage
0,0 - 2,99	Very fine	3 196	4,3%
3,0 - 3,79	Fine	27 810	37,5%
3,8 - 4,79	Medium	40 941	55,3%
4,8 - 5,4	Coarse	2 147	2,9%
Total		74 094	100%

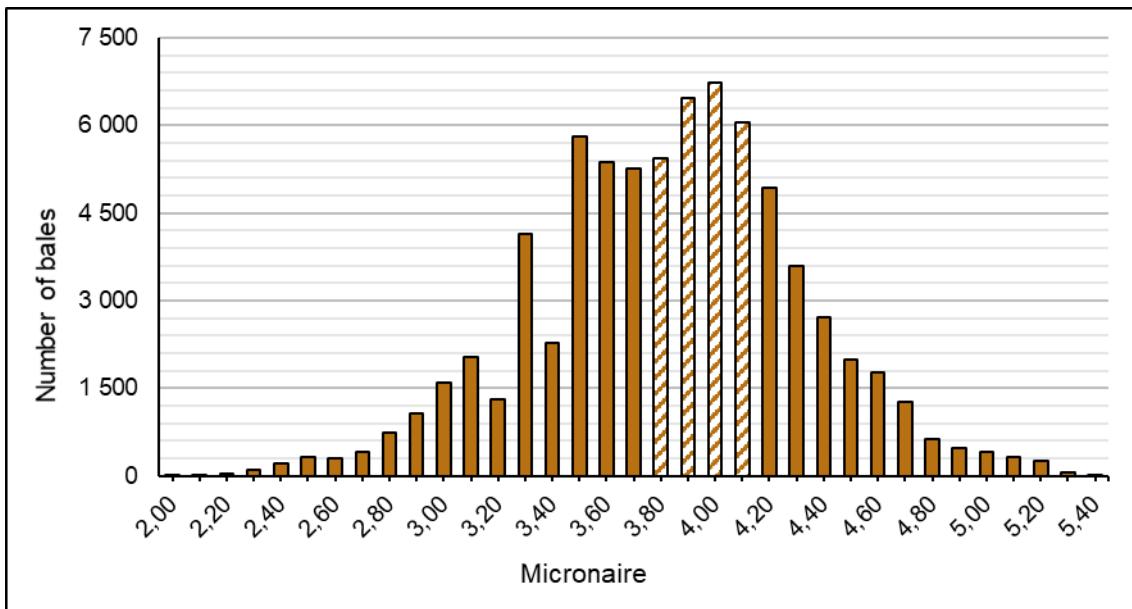


Figure 4: Distribution of the entire crop by micronaire.

Reflectance

Reflectance (Rd) expresses the whiteness of the light that is reflected by the cotton fibres. It is used in conjunction with yellowness (+b) to determine the colour grade of the cotton (Uster 2008).

Table 5: Summary of the reflectance achieved for the entire crop.

Rd	Number of bales	Percentage
0,0 - 67,49	46	0,1%
67,5 - 72,49	411	0,6%
72,5 - 74,99	1 609	2,2%
75,0 - 77,49	6 056	8,2%
77,5 - 79,99	13 859	18,7%
80,0 - 82,49	26 865	36,3%
82,5 - 90,0	25 248	34,1%
Total	74 094	100%

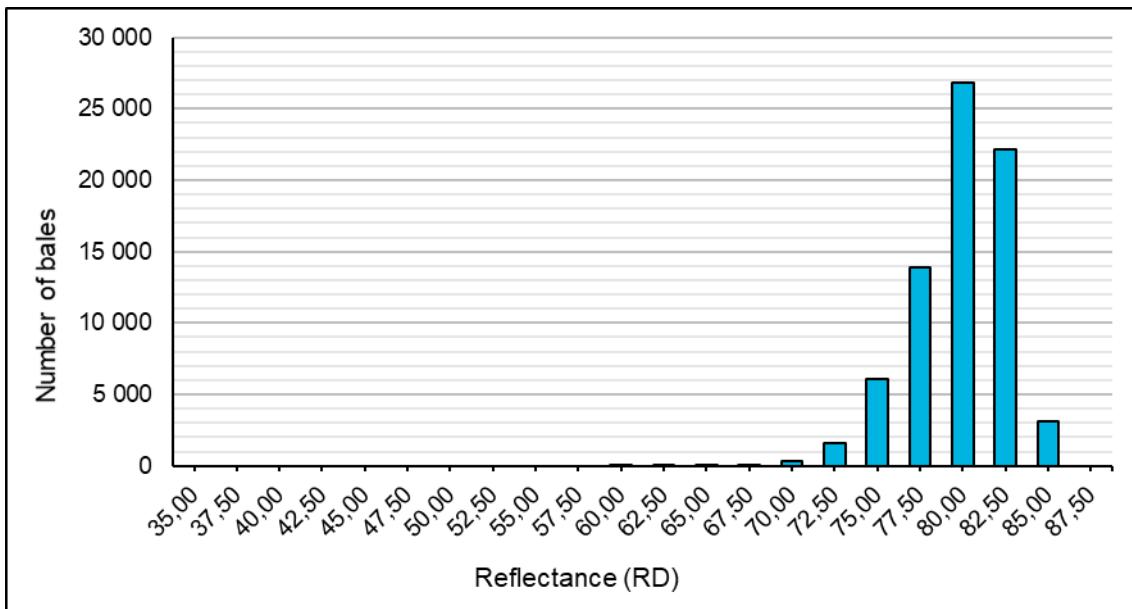


Figure 5: Distribution of the entire crop by reflectance.

Yellowness

Yellowness expresses the yellowness of the light that is reflected by the cotton fibres, the yellowness of the sample is determined by using a yellow filter. It is used in conjunction with the reflectance to determine the colour grade of the cotton (Uster 2008).

Table 6: Summary of the Yellowness achieved for the entire crop.

+ b	Number of bales	Percentage
0,0 - 5,9	802	1,1%
6,0 - 6,9	20 517	27,7%
7,0 - 7,9	35 179	47,5%
8,0 - 8,9	15 243	20,6%
9,0 - 9,9	2 092	2,8%
10,0 - 10,9	221	0,3%
11,0 - 12,9	40	0,1%
13,0 - 20,0	0	0,0%
Total	74 094	100%

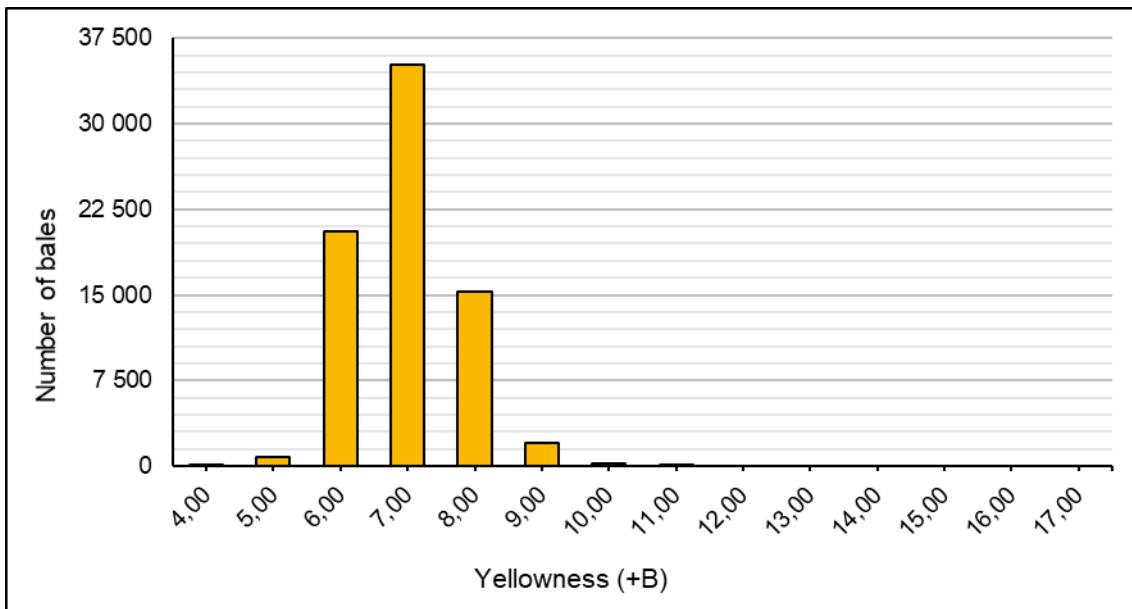


Figure 6: Distribution of the entire crop by yellowness.

Short fibre index

The Short Fibre Index (SFI) is an indication of the number of fibres in percentage that are less than 0.5 inches (12.7 mm) in length (Uster 2008). A lower index value is considered better, SFI of 10,0 or above is considered an issue (shown in Figure 7).

Table 7: Summary of the short fibre index achieved for the entire crop.

SFI	Description	Number of bales	Percentage
0,0 - 5,99	Very low	463	0,6%
6,0 - 9,99	Low	57 317	77,4%
10,0 - 13,99	Medium	15 894	21,5%
14,0 - 17,99	High	418	0,6%
18,0 - 30,00	Very high	2	0,0%
Total		74 094	100%

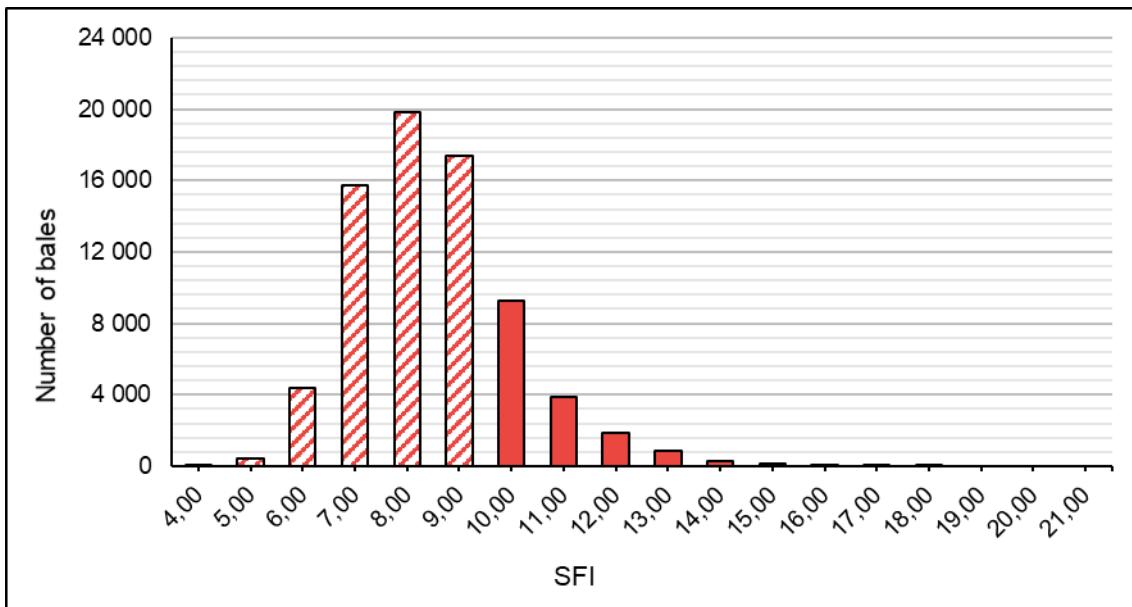


Figure 7: Distribution of the entire crop by short fibre index.

Uniformity

The uniformity (UI) expresses the relationship between the UHML and Mean Length. It is an indication of the distribution of fibre length within samples (Uster 2008). An index value of 80,0 or better is preferable (shown in Figure 8).

Table 8: Summary of the uniformity achieved for the entire crop.

UI	Description	Number of bales	Percentage
0,0 - 76,9	Very low	508	0,7%
77,0 - 80,9	Low	39 816	53,7%
81,0 - 84,9	Medium	33 709	45,5%
85,0 - 89,0	High	61	0,1%
Total		74 094	100%

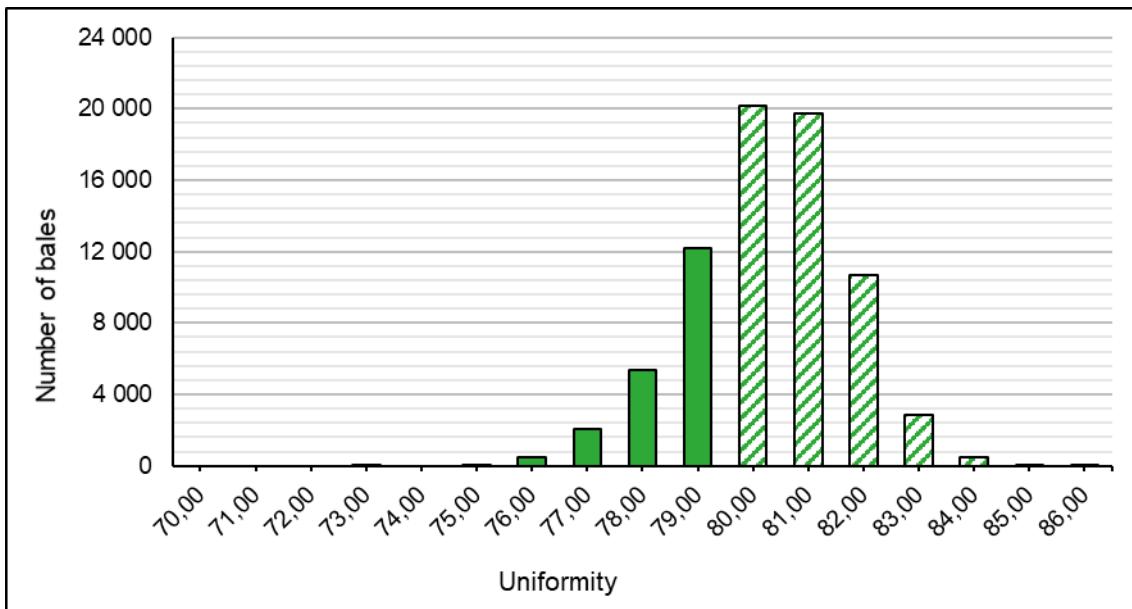


Figure 8: Distribution of the entire crop by uniformity.

Spinning consistency index

The spinning consistency index is a calculation for predicting the spinnability of fibres. It is a calculation that can anticipate yarn strength and spinning potential based on individual HVI measurements (this includes: Strength, Micronaire, Length, Uniformity, Reflectance, and Yellowness). In general, the higher the SCI, the higher the yarn strength and the better the overall fibre spinnability (Uster 2008). An index of 120 or better is preferable (shown in Figure 9).

Table 9: Summary of the spinning consistency index achieved for the entire crop.

SCI	Number of bales	Percentage
0 - 99	2 274	3,1%
100 - 119	20 638	27,9%
120 - 130	23 573	31,8%
131 - 140	18 657	25,2%
141 - 150	7 481	10,1%
151 - 170	1 471	2,0%
Total	74 094	100%

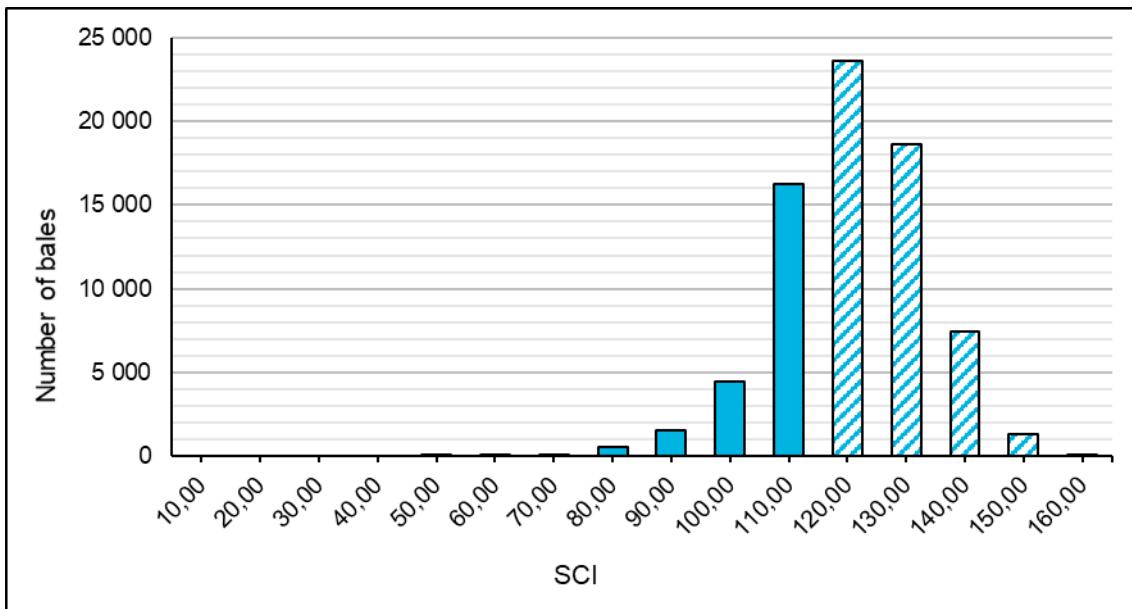


Figure 9: Distribution of the entire crop by spinning consistency index.

Cultivar Summaries

In terms of cultivars: Candia B2RF accounted for 55% of the cotton planted and Deltapine (DP) 1240 B2RF for 35%. In contrast, DP 1531 B2RF's uptake was 1%, DP 1541 B2RF accounted for 7%, and the uptake of Paymaster (PM 3225 B2RF) was 1% of the entire crop. The latter is the recommended cultivar for handpicked cotton (i.e., smallholder farmers). The following statistics were calculated based on data received from gins.

Candia

Table 10: Summary of the grade achieved for Candia.

Grade	Number of bales	Percentage
Good Middling (GM)	18 152	44,7%
Strict Middling (SM)	13 996	34,5%
Middling (MIDD)	7 311	18,0%
Strict Low Middling (SLM)	1 120	2,8%
Low Middling (LM)	41	0,1%
Strict Good Ordinary (SGO)	0	0,0%
Total	40 620	100%

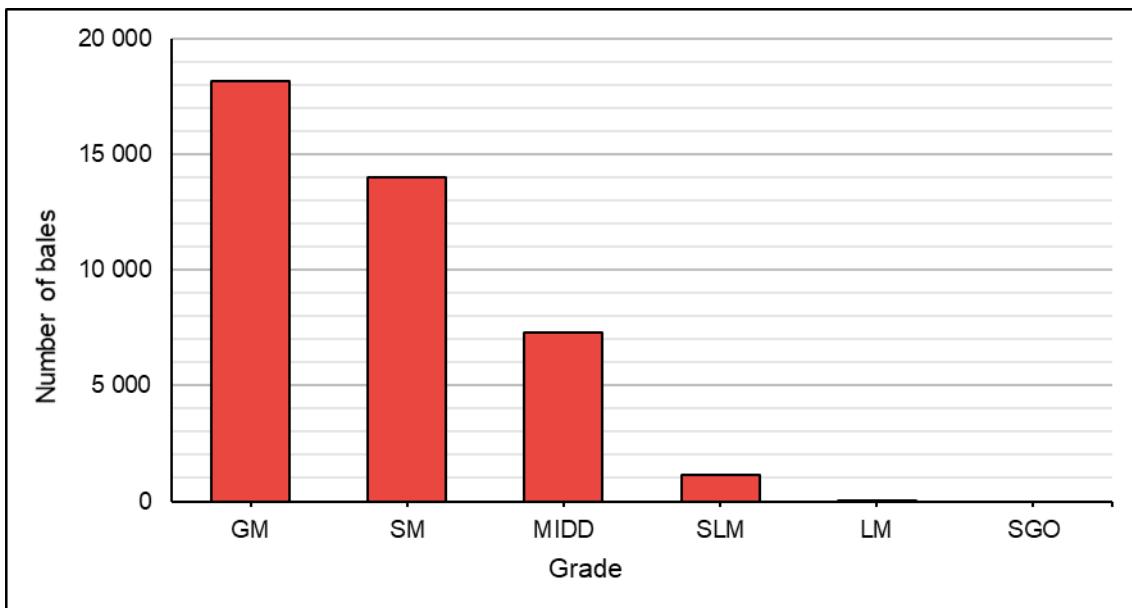


Figure 10: Distribution of Candia by grade.

Table 11: Summary of the length achieved for Candia.

Length	Description	Number of bales	Percentage
0,0 - 0,97	less than 1"	0	0,0%
0,98 - 1,04	1 1/32"	973	2,4%
1,05 - 1,07	1 1/16"	3 610	8,9%
1,08 - 1,10	1 3/32"	4 845	11,9%
1,11 - 1,13	1 1/8"	7 846	19,3%
1,14 - 1,16	1 5/32"	8 458	20,8%
1,17 - 1,40	1 3/16" and greater	14 888	36,7%
Total		40 620	100%

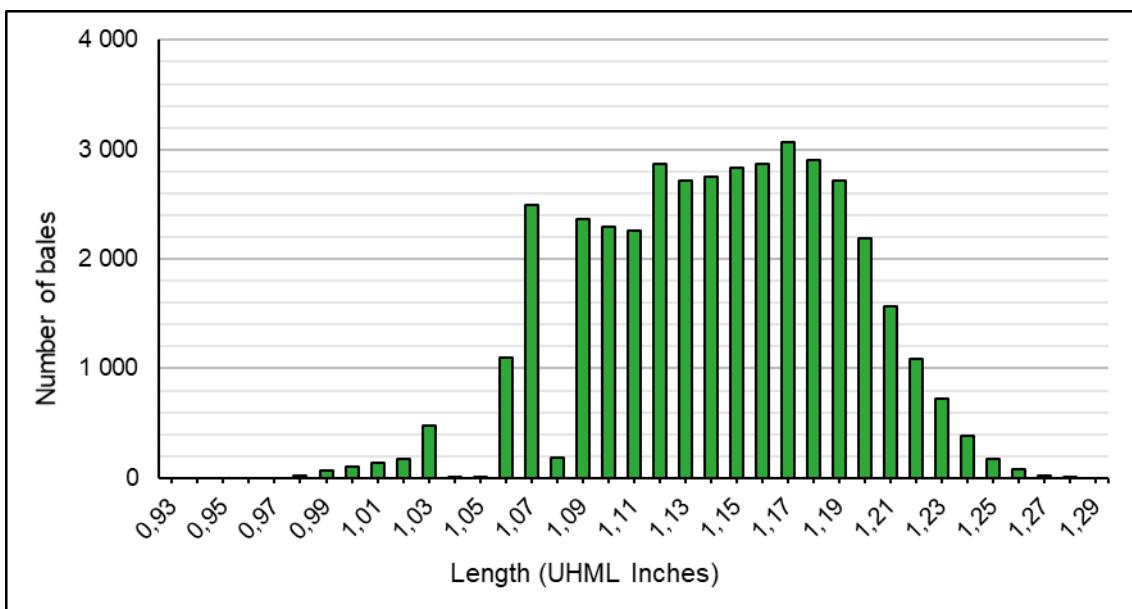


Figure 11: Distribution of Candia by length.

Table 12: Summary of the strength achieved for Candia.

Strength	Description	Number of bales	Percentage
0,0 - 21,99	Very weak	54	0,1%
22,0 - 24,49	Weak	2 629	6,5%
24,5 - 27,99	Medium	16 400	40,4%
28,0 - 29,99	Strong	20 152	49,6%
32,0 - 45,00	Very strong	1 385	3,4%
Total		40 620	100%

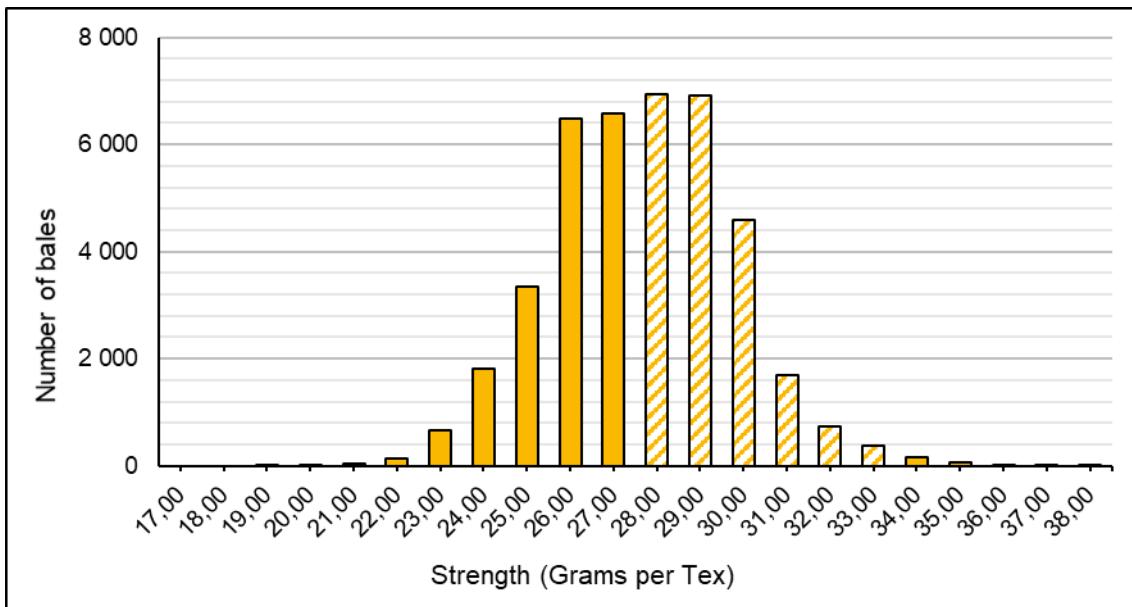


Figure 12: Distribution of Candia by strength.

Table 13: Summary of the micronaire achieved for Candia.

Micronaire	Description	Number of bales	Percentage
0,0 - 2,99	Very fine	3 012	7,4%
3,0 - 3,79	Fine	22 036	54,2%
3,8 - 4,79	Medium	15 185	37,4%
4,8 - 5,4	Coarse	387	1,0%
Total		40 620	100%

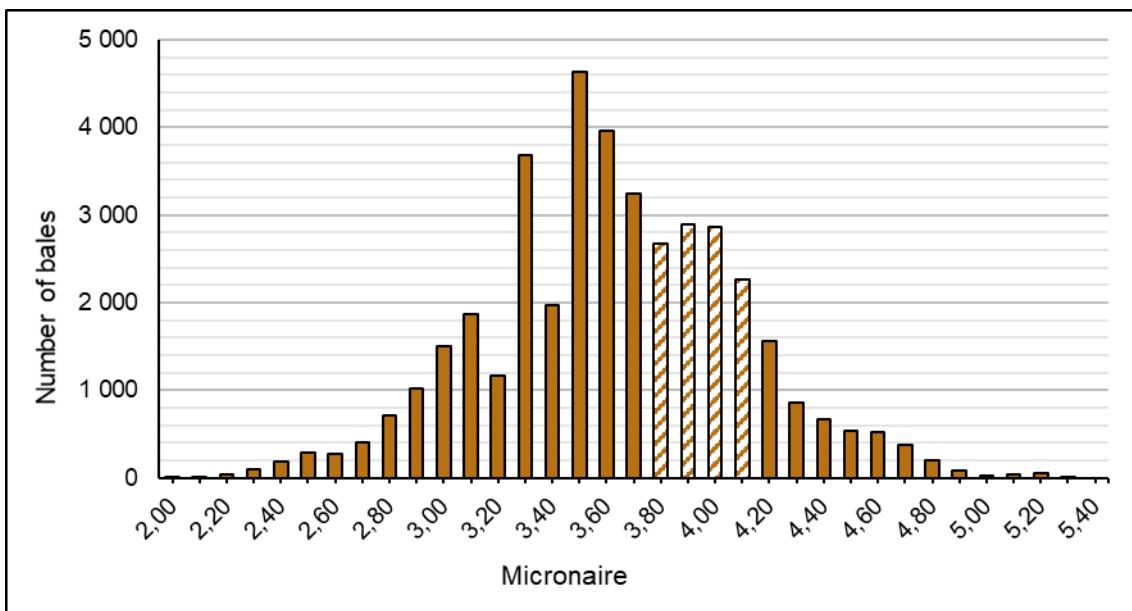


Figure 13: Distribution of Candia by micronaire.

Table 14: Summary of the short fibre index achieved for Candia.

SFI	Description	Number of bales	Percentage
0,0 - 5,99	Very low	165	0,4%
6,0 - 9,99	Low	30 673	75,5%
10,0 - 13,99	Medium	9 653	23,8%
14,0 - 17,99	High	129	0,3%
18,0 - 30,00	Very high	0	0,0%
Total		40 620	100%

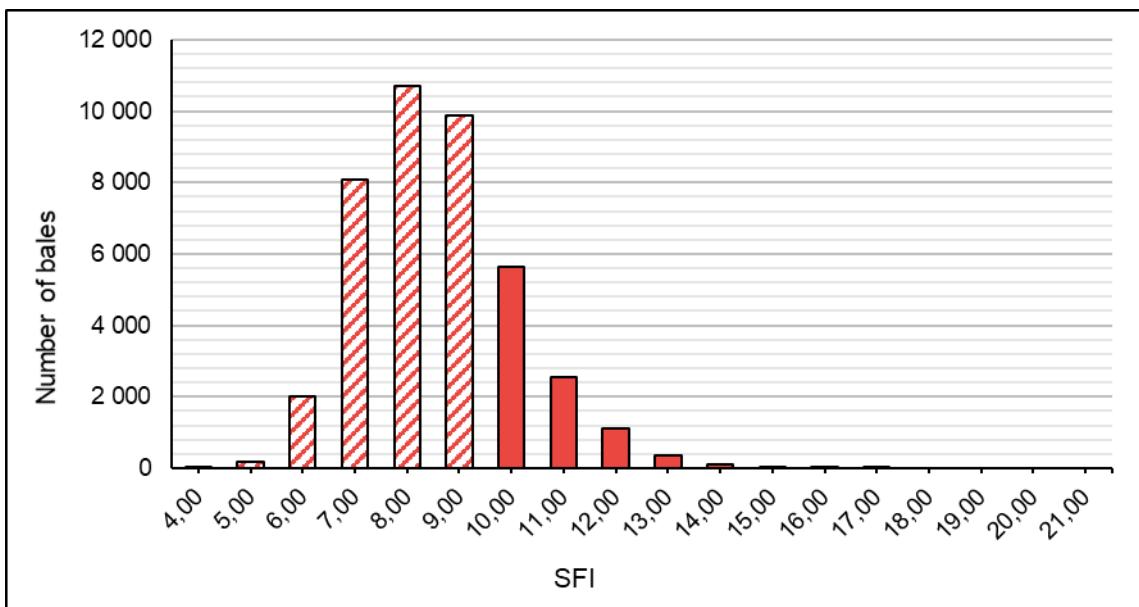


Figure 14: Distribution of Candia by short fibre index.

Table 15: Summary of the uniformity achieved for Candia.

UI	Description	Number of bales	Percentage
0,0 - 76,9	Very low	272	0,7%
77,0 - 80,9	Low	23 484	57,8%
81,0 - 84,9	Medium	16 857	41,5%
85,0 - 89,0	High	7	0,0%
Total		40 620	100%

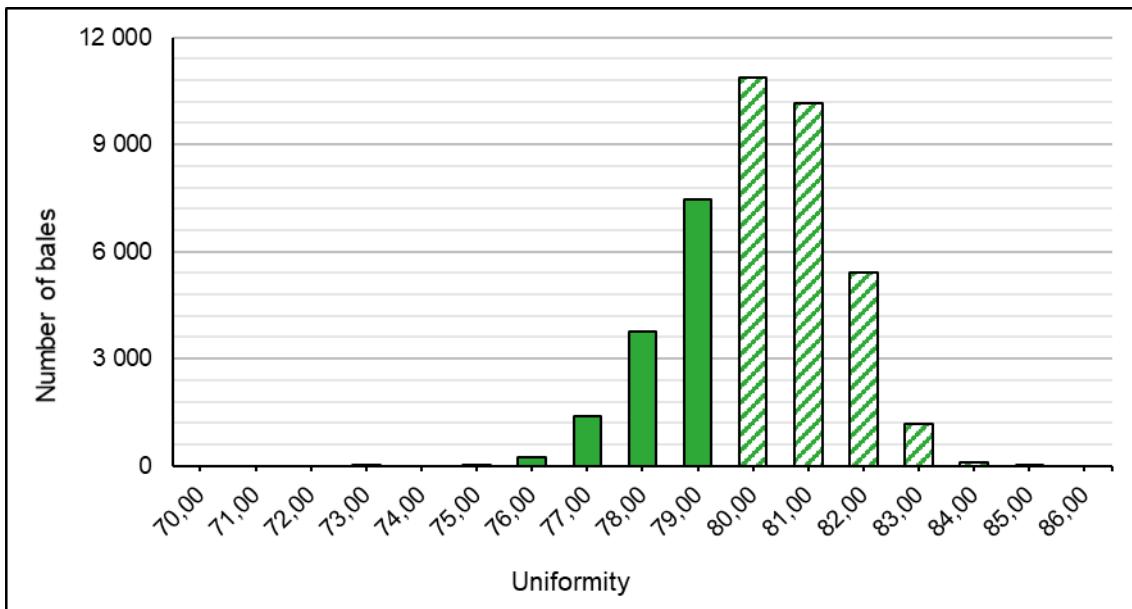


Figure 15: Distribution of Candia by uniformity.

Table 16: Summary of the spinning consistency index achieved for Candia.

SCI	Number of bales	Percentage
0 - 99	652	1,6%
100 - 119	11 380	28,0%
120 - 130	11 871	29,2%
131 - 140	10 667	26,3%
141 - 150	4 928	12,1%
151 - 170	1 122	2,8%
Total	40 620	100%

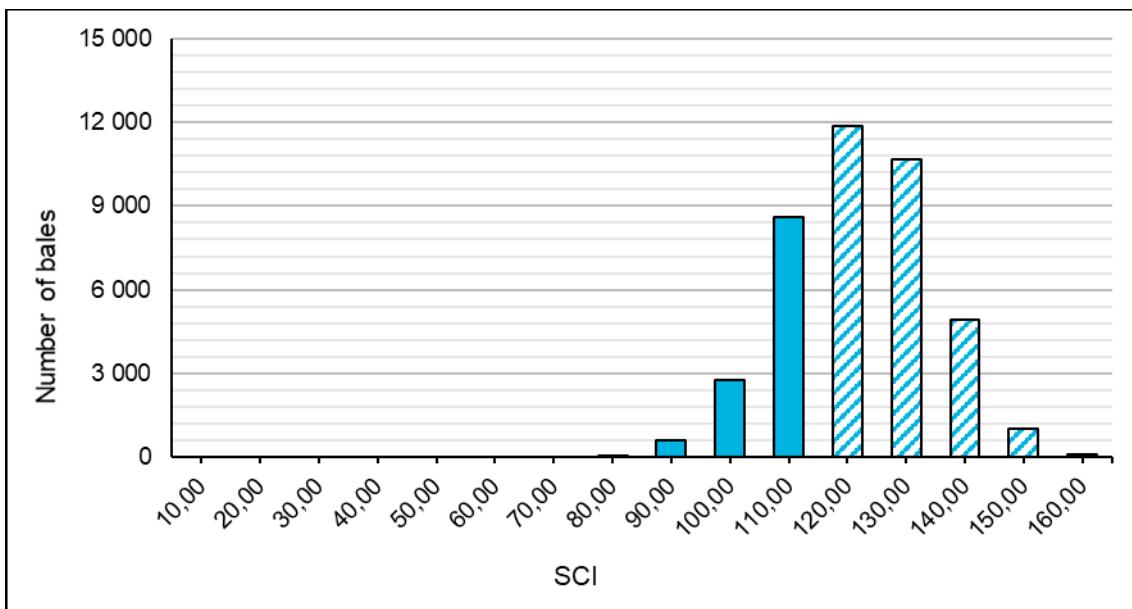


Figure 16: Distribution of Candia by spinning consistency index.

DP 1240

Table 17: Summary of the grade achieved for DP 1240.

Grade	Number of bales	Percentage
Good Middling (GM)	9 226	35,5%
Strict Middling (SM)	6 734	25,9%
Middling (MIDD)	8 772	33,8%
Strict Low Middling (SLM)	1 238	4,8%
Low Middling (LM)	6	0,0%
Strict Good Ordinary (SGO)	0	0,0%
Total	25 976	100%

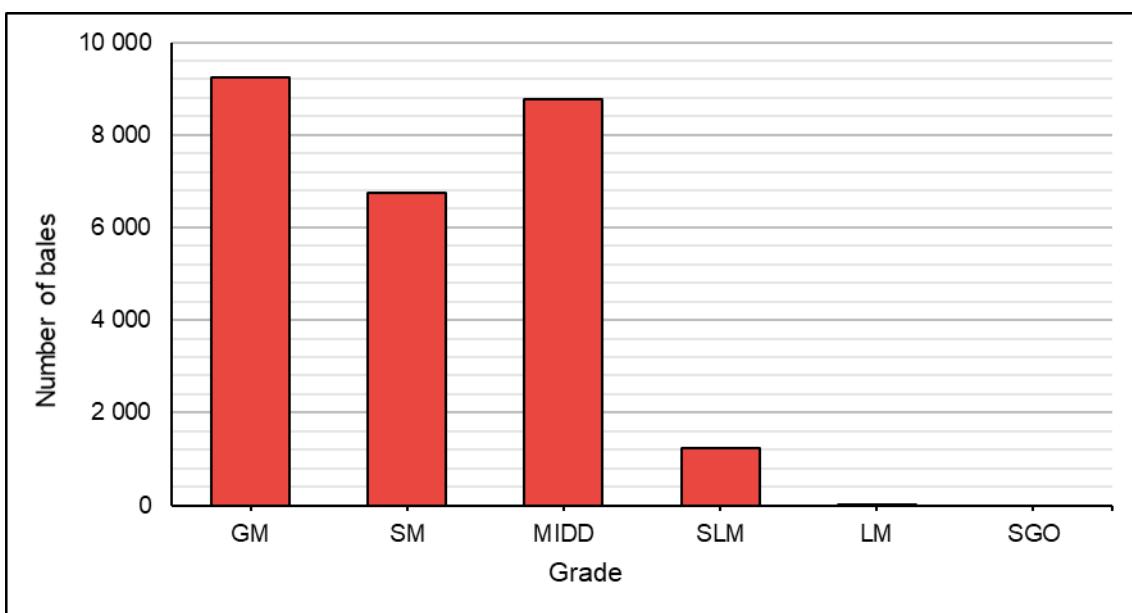


Figure 17: Distribution of DP 1240 by grade.

Table 18: Summary of the length achieved for DP 1240.

Length	Description	Number of bales	Percentage
0,0 - 0,97	less than 1"	384	1,5%
0,98 - 1,04	1 1/32"	2 226	8,6%
1,05 - 1,07	1 1/16"	4 035	15,5%
1,08 - 1,10	1 3/32"	4 942	19,0%
1,11 - 1,13	1 1/8"	4 858	18,7%
1,14 - 1,16	1 5/32"	4 510	17,4%
1,17 - 1,40	1 3/16" and greater	5 021	19,3%
Total		25 976	100%

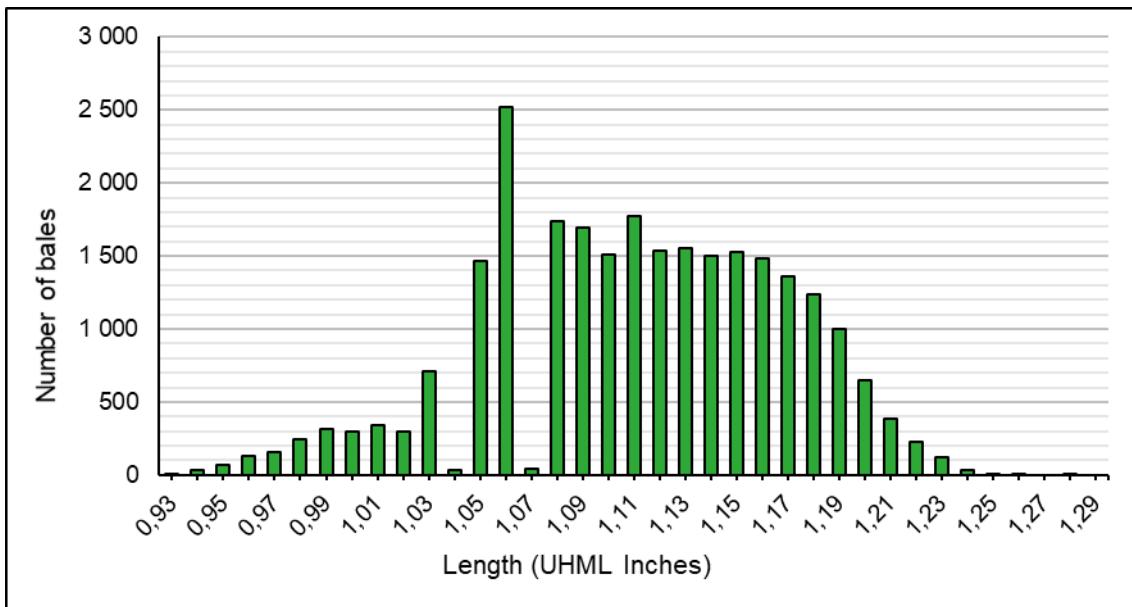


Figure 18: Distribution of DP 1240 by length.

Table 19: Summary of the strength achieved for DP 1240.

Strength	Description	Number of bales	Percentage
0,0 - 21,99	Very weak	238	0,9%
22,0 - 24,49	Weak	1 252	4,8%
24,5 - 27,99	Medium	5 710	22,0%
28,0 - 29,99	Strong	16 754	64,5%
32,0 - 45,00	Very strong	2 022	7,8%
Total		25 976	100%

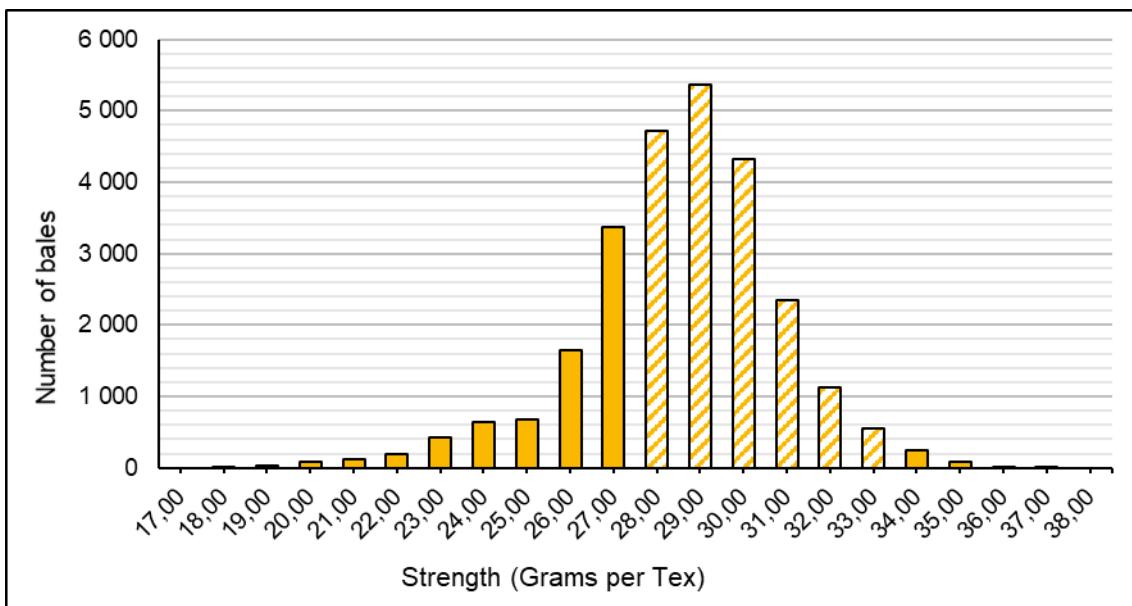


Figure 19: Distribution of DP 1240 by strength.

Table 20: Summary of the micronaire achieved for DP 1240.

Micronaire	Description	Number of bales	Percentage
0,0 - 2,99	Very fine	99	0,4%
3,0 - 3,79	Fine	4 234	16,3%
3,8 - 4,79	Medium	20 310	78,2%
4,8 – 5,4	Coarse	1 333	5,1%
Total		25 976	100%

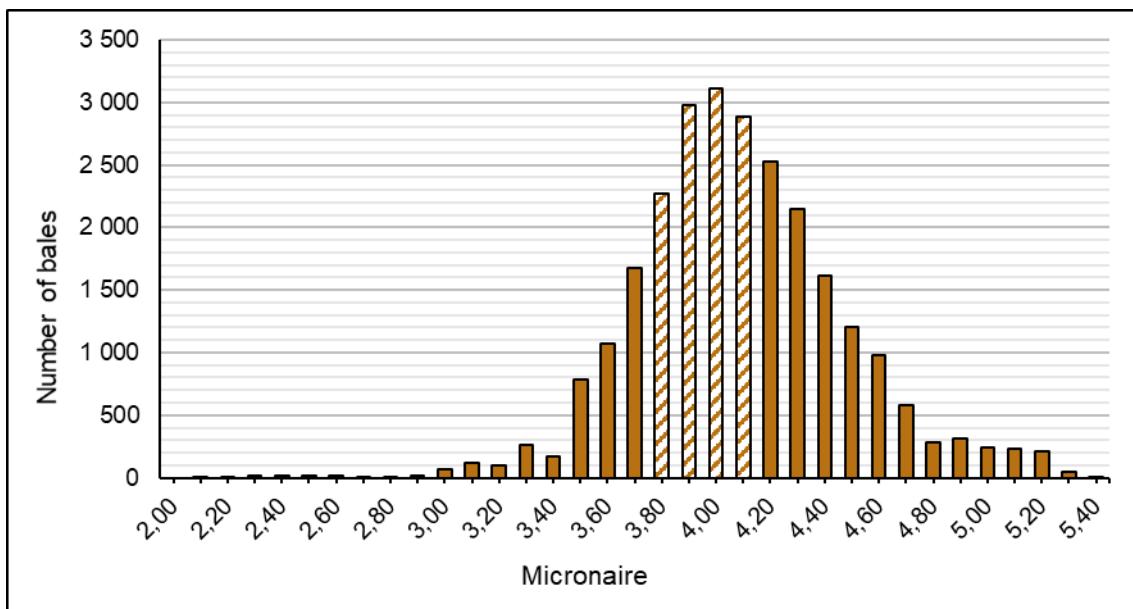


Figure 20: Distribution of DP 1240 by micronaire.

Table 21: Summary of the short fibre index achieved for DP 1240.

SFI	Description	Number of bales	Percentage
0,0 - 5,99	Very low	280	1,1%
6,0 - 9,99	Low	20 228	77,9%
10,0 - 13,99	Medium	5 187	20,0%
14,0 - 17,99	High	279	1,1%
18,0 - 30,00	Very high	2	0,0%
Total		25 976	100%

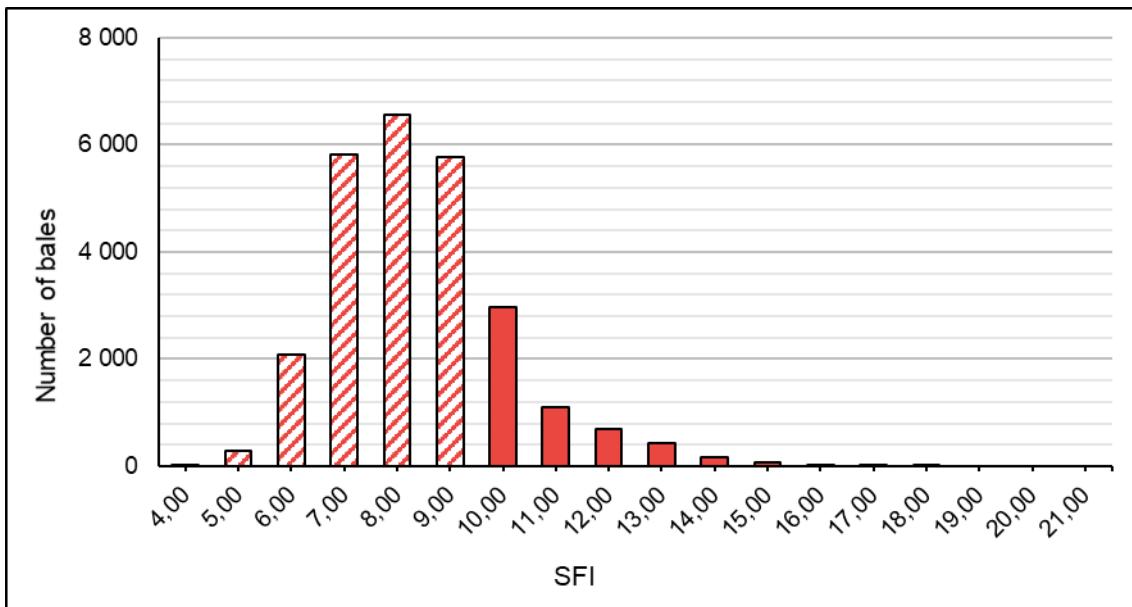


Figure 21: Distribution of DP 1240 by short fibre index.

Table 22: Summary of the uniformity achieved for DP 1240.

UI	Description	Number of bales	Percentage
0,0 - 76,9	Very low	208	0,8%
77,0 - 80,9	Low	12 894	49,6%
81,0 - 84,9	Medium	12 820	49,4%
85,0 - 89,0	High	54	0,2%
Total		25 976	100%

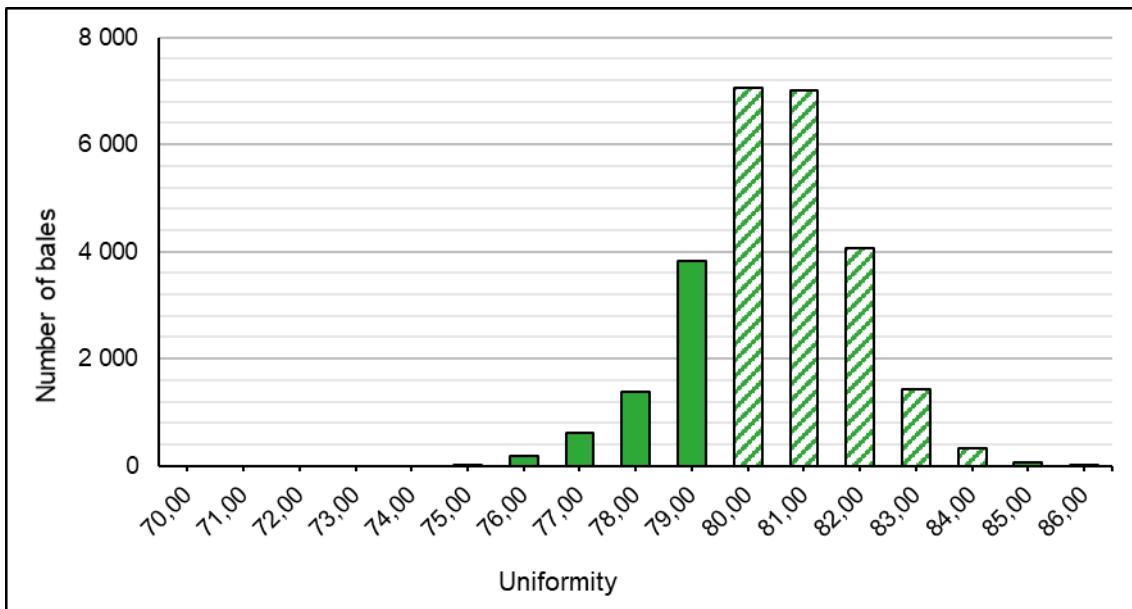


Figure 22: Distribution of DP 1240 by uniformity.

Table 23: Summary of the spinning consistency index achieved for DP 1240.

SCI	Number of bales	Percentage
0 - 99	1558	6,0%
100 - 119	7 221	27,8%
120 - 130	8 331	32,1%
131 - 140	6 236	24,0%
141 - 150	2 286	8,8%
151 - 170	344	1,3%
Total	25 976	100%

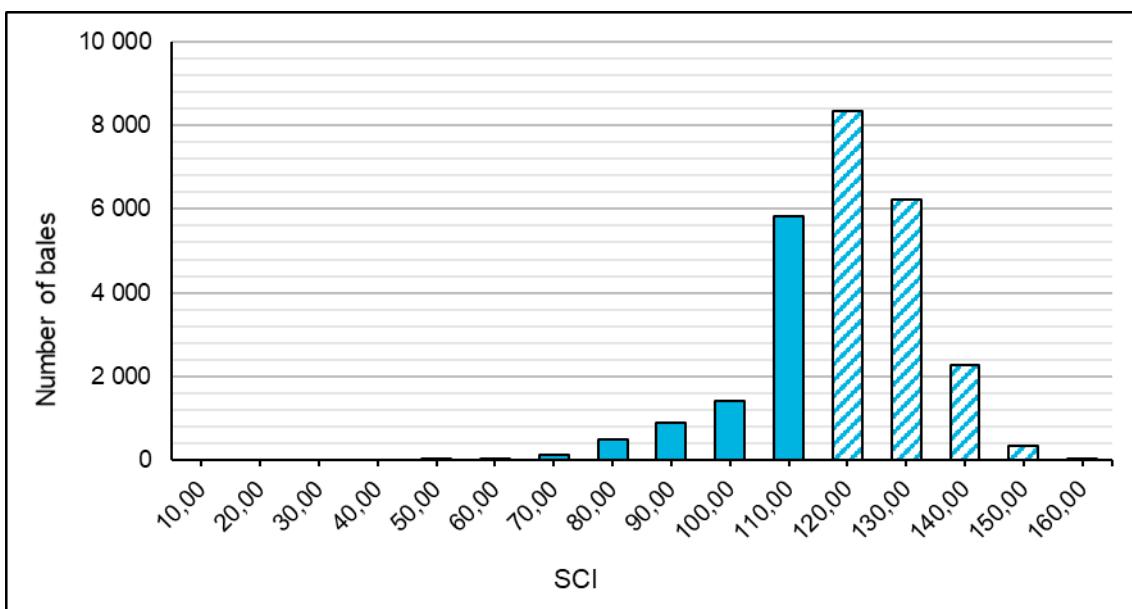


Figure 23: Distribution of DP 1240 by spinning consistency index.

DP 1531

Table 24: Summary of the grade achieved for DP 1531.

Grade	Number of bales	Percentage
Good Middling (GM)	258	28,3%
Strict Middling (SM)	368	40,4%
Middling (MIDD)	231	25,3%
Strict Low Middling (SLM)	55	6,0%
Low Middling (LM)	0	0,0%
Strict Good Ordinary (SGO)	0	0,0%
Total	912	100%

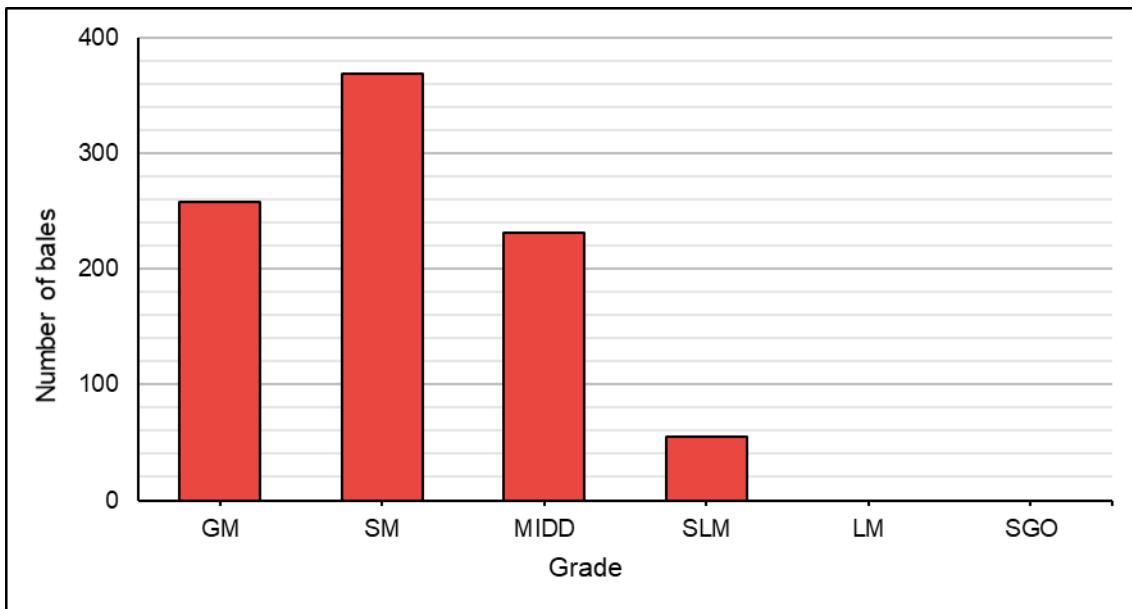


Figure 24: Distribution of DP 1531 by grade.

Table 25: Summary of the length achieved for DP 1531.

Length	Description	Number of bales	Percentage
0,0 - 0,97	less than 1"	0	0,0%
0,98 - 1,04	1 1/32"	19	2,1%
1,05 - 1,07	1 1/16"	69	7,6%
1,08 - 1,10	1 3/32"	124	13,6%
1,11 - 1,13	1 1/8"	176	19,3%
1,14 - 1,16	1 5/32"	338	37,1%
1,17 - 1,40	1 3/16" and greater	186	20,4%
Total		912	100%

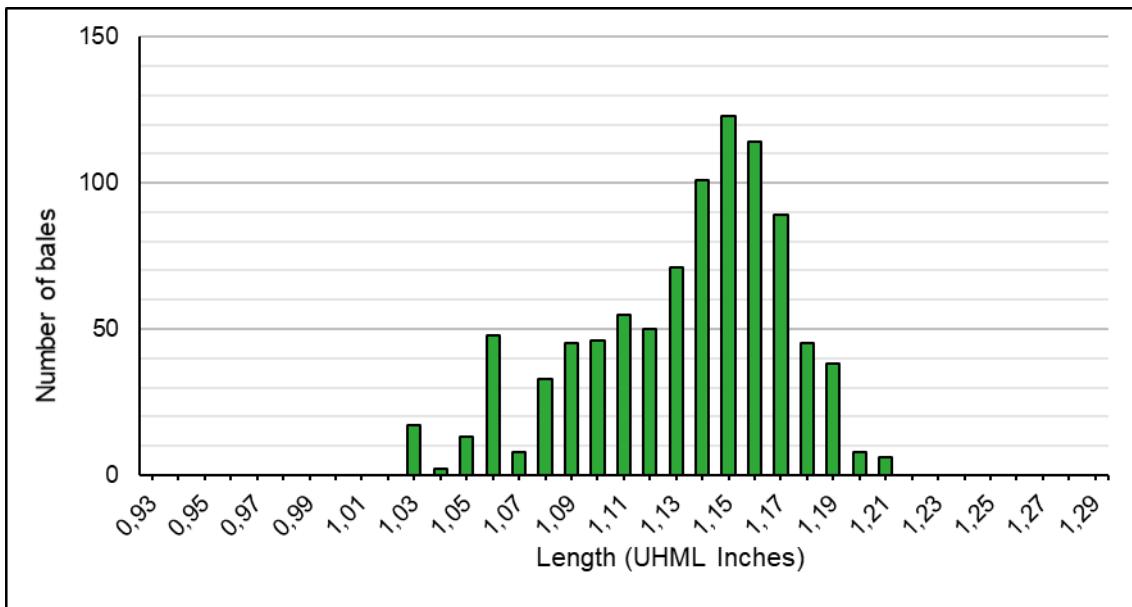


Figure 25: Distribution of DP 1531 by length.

Table 26: Summary of the strength achieved for DP 1531.

Strength	Description	Number of bales	Percentage
0,0 - 21,99	Very weak	0	0,0%
22,0 - 24,49	Weak	89	9,8%
24,5 - 27,99	Medium	296	32,5%
28,0 - 29,99	Strong	496	54,4%
32,0 - 45,00	Very strong	31	3,4%
Total		912	100%

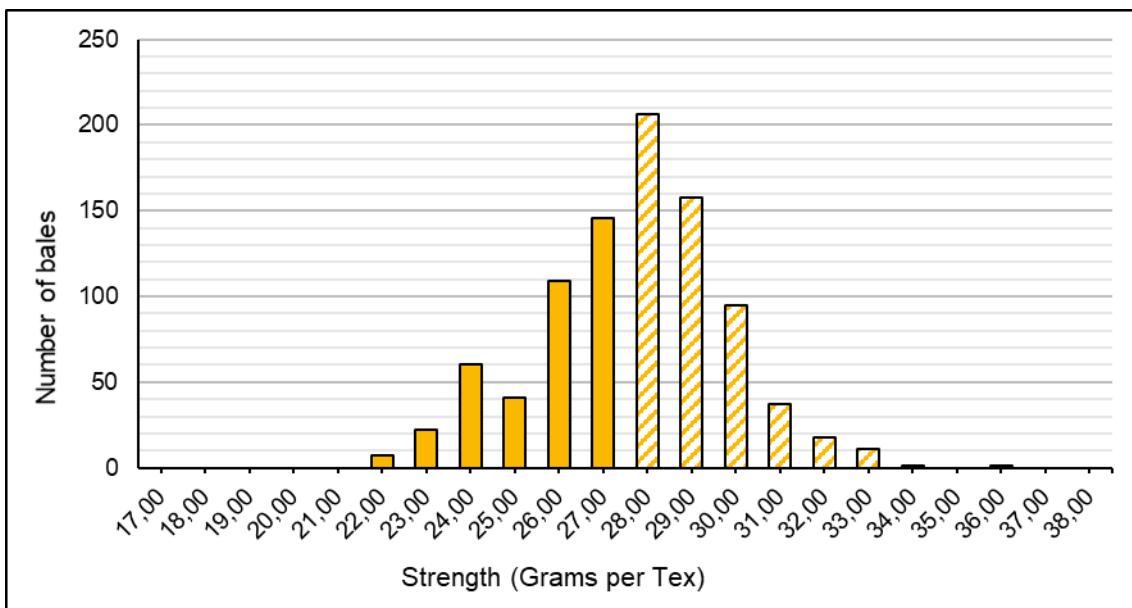


Figure 26: Distribution of DP 1531 by strength.

Table 27: Summary of the micronaire achieved for DP 1531.

Micronaire	Description	Number of bales	Percentage
0,0 - 2,99	Very fine	48	5,3%
3,0 - 3,79	Fine	284	31,1%
3,8 - 4,79	Medium	569	62,4%
4,8 – 5,4	Coarse	11	1,2%
Total		912	100%

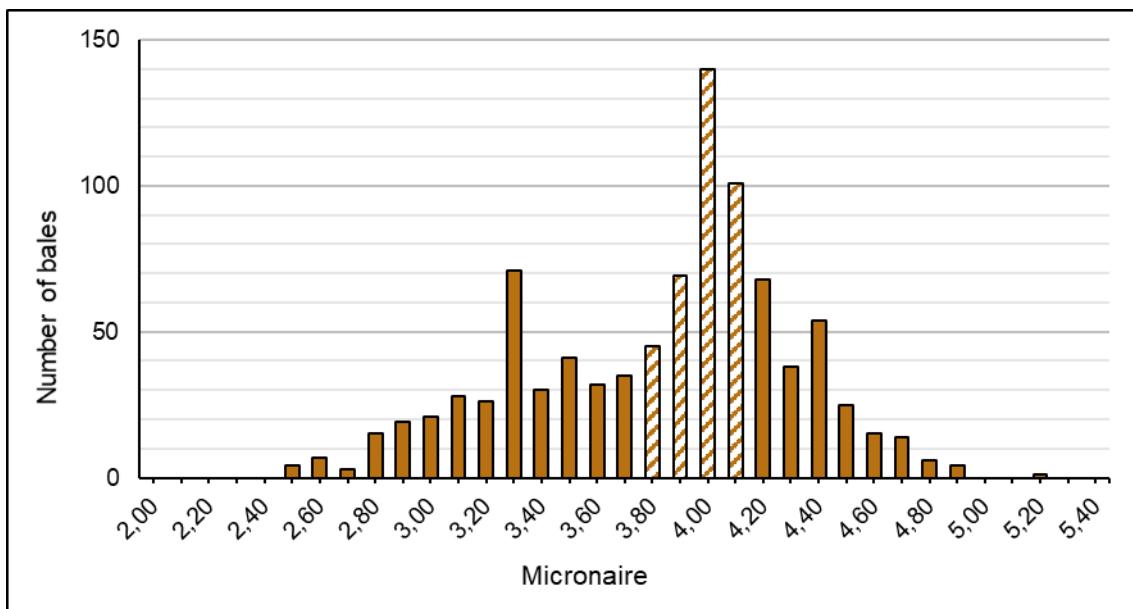


Figure 27: Distribution of DP 1531 by micronaire.

Table 28: Summary of the short fibre index achieved for DP 1531.

SFI	Description	Number of bales	Percentage
0,0 - 5,99	Very low	18	2,0%
6,0 - 9,99	Low	630	69,1%
10,0 - 13,99	Medium	262	28,7%
14,0 - 17,99	High	2	0,2%
18,0 - 30,00	Very high	0	0,0%
Total		912	100%

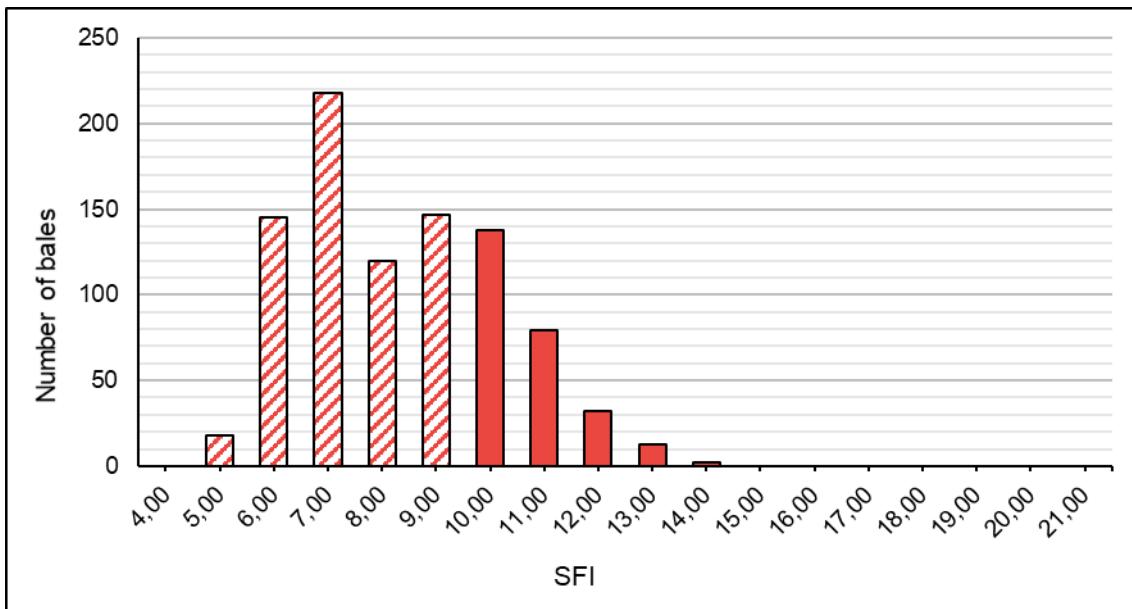


Figure 28: Distribution of DP 1531 by short fibre index.

Table 29: Summary of the uniformity achieved for DP 1531.

UI	Description	Number of bales	Percentage
0,0 - 76,9	Very low	7	0,8%
77,0 - 80,9	Low	463	50,8%
81,0 - 84,9	Medium	442	48,5%
85,0 - 89,0	High	0	0,0%
Total		912	100%

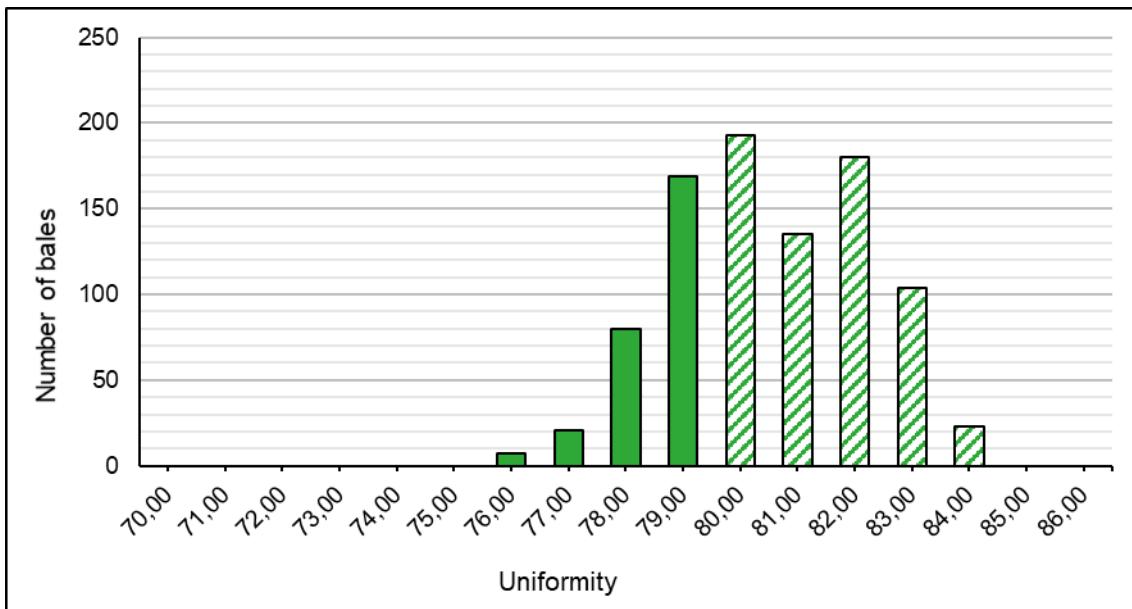


Figure 29: Distribution of DP 1531 by uniformity.

Table 30: Summary of the spinning consistency index achieved for DP 1531.

SCI	Number of bales	Percentage
0 - 99	10	1,1%
100 - 119	291	31,9%
120 - 130	242	26,5%
131 - 140	277	30,4%
141 - 150	90	9,9%
151 - 170	2	0,2%
Total	912	100%

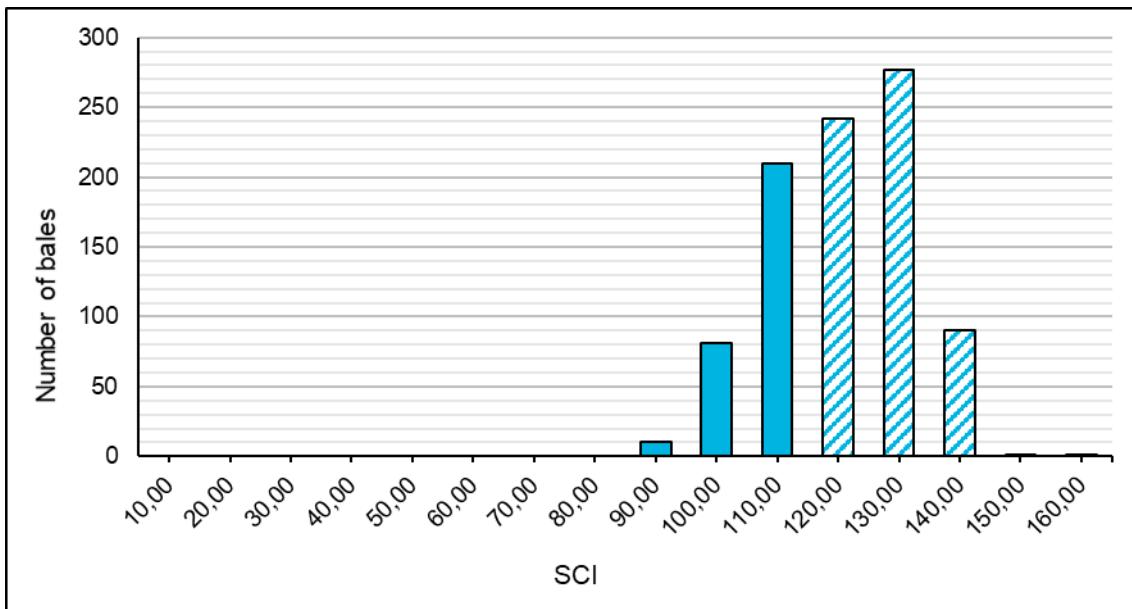


Figure 30: Distribution of DP 1531 by spinning consistency index.

DP 1541

Table 31: Summary of the grade achieved for DP 1541.

Grade	Number of bales	Percentage
Good Middling (GM)	4 660	90,5%
Strict Middling (SM)	182	3,5%
Middling (MIDD)	20	0,4%
Strict Low Middling (SLM)	290	5,6%
Low Middling (LM)	0	0,0%
Strict Good Ordinary (SGO)	0	0,0%
Total	5 152	100%

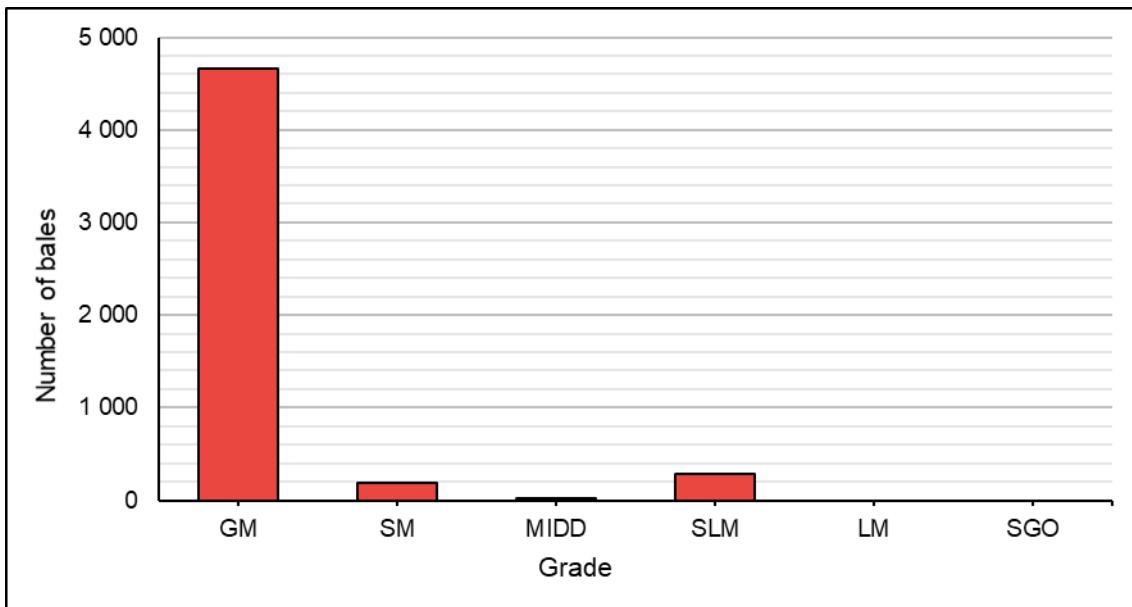


Figure 31: Distribution of DP 1541 by grade.

Table 32: Summary of the length achieved for DP 1541.

Length	Description	Number of bales	Percentage
0,0 - 0,97	less than 1"	0	0,0%
0,98 - 1,04	1 1/32"	4	0,1%
1,05 - 1,07	1 1/16"	19	0,4%
1,08 - 1,10	1 3/32"	639	12,4%
1,11 - 1,13	1 1/8"	2 478	48,1%
1,14 - 1,16	1 5/32"	1 686	32,7%
1,17 - 1,40	1 3/16" and greater	326	6,3%
Total		5 152	100%

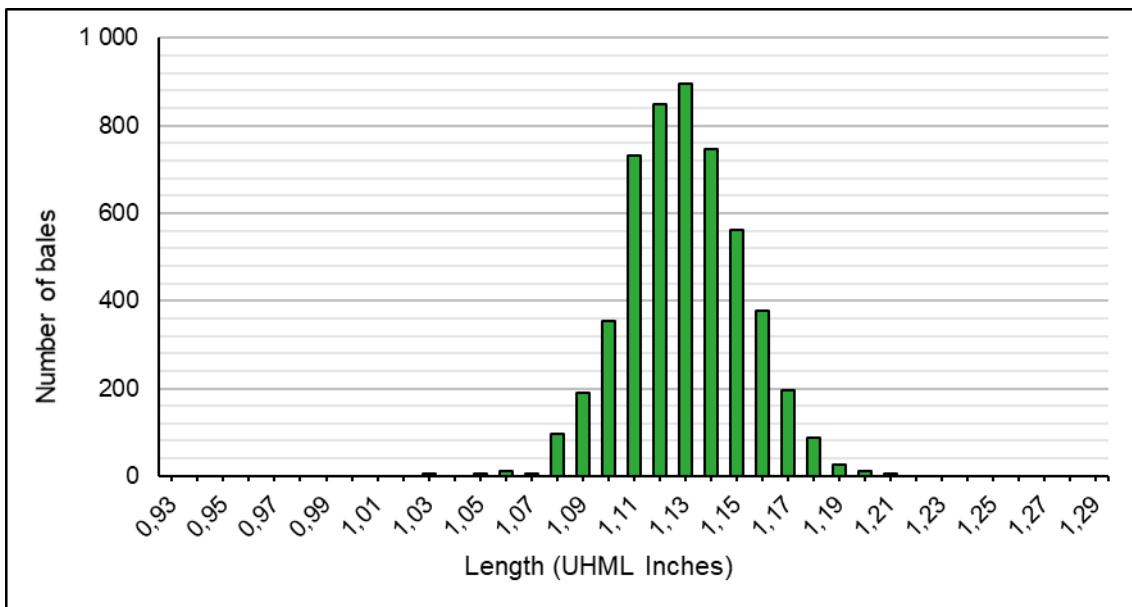


Figure 32: Distribution of DP 1541 by length.

Table 33: Summary of the strength achieved for DP 1541.

Strength	Description	Number of bales	Percentage
0,0 - 21,99	Very weak	0	0,0%
22,0 - 24,49	Weak	6	0,1%
24,5 - 27,99	Medium	1 979	38,4%
28,0 - 29,99	Strong	3 095	60,1%
32,0 - 45,00	Very strong	72	1,4%
Total		5 152	100%

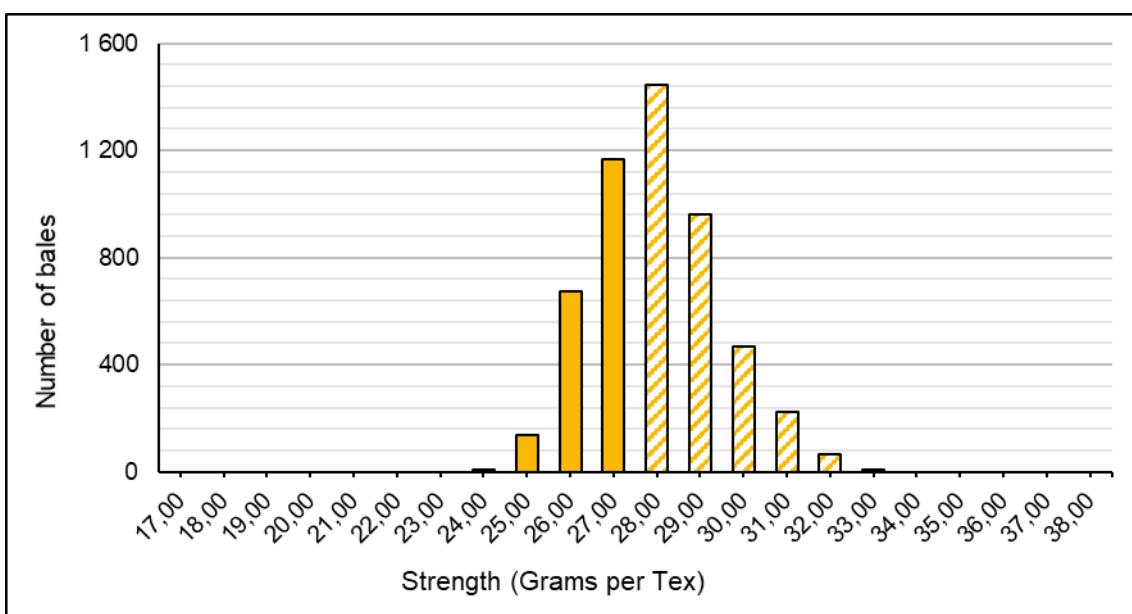


Figure 33: Distribution of DP 1541 by strength.

Table 34: Summary of the micronaire achieved for DP 1541.

Micronaire	Description	Number of bales	Percentage
0,0 - 2,99	Very fine	2	0,0%
3,0 - 3,79	Fine	551	10,7%
3,8 - 4,79	Medium	4 186	81,3%
4,8 – 5,4	Coarse	413	8,0%
Total		5 152	100%

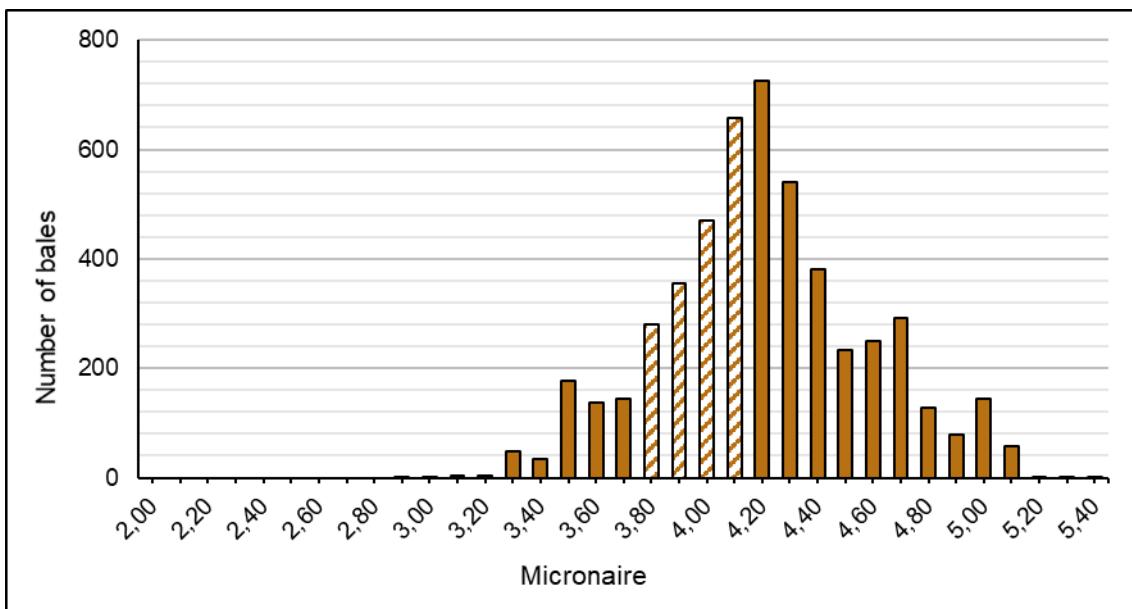


Figure 34: Distribution of DP 1541 by micronaire.

Table 35: Summary of the short fibre index achieved for DP 1541.

SFI	Description	Number of bales	Percentage
0,0 - 5,99	Very low	0	0,0%
6,0 - 9,99	Low	4 730	91,8%
10,0 - 13,99	Medium	422	8,2%
14,0 - 17,99	High	0	0,0%
18,0 - 30,00	Very high	0	0,0%
Total		5 152	100%

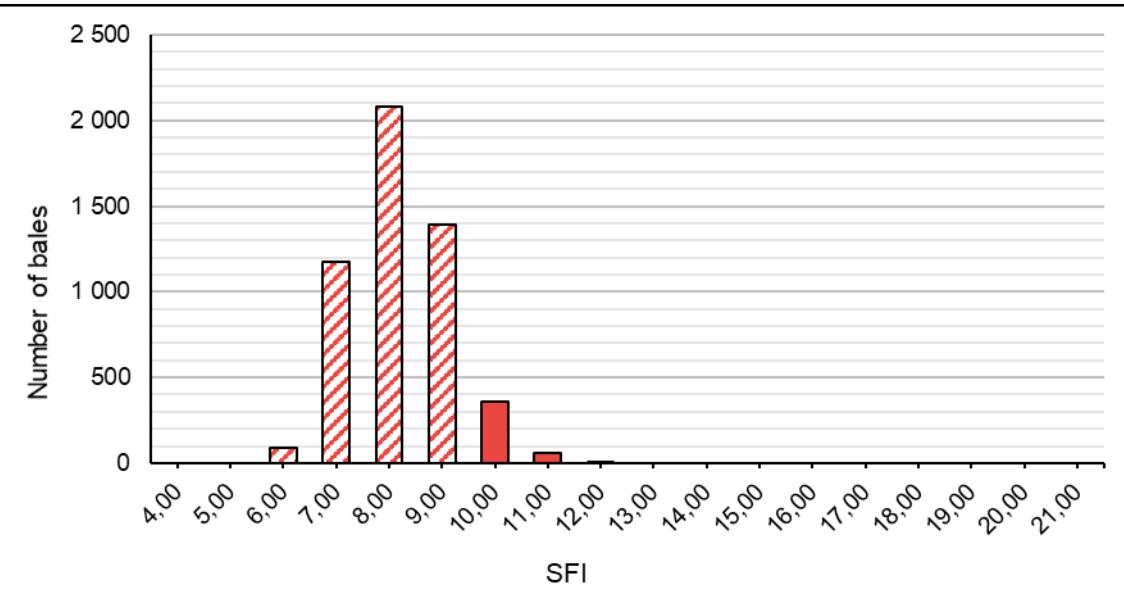


Figure 35: Distribution of DP 1541 by short fibre index.

Table 36: Summary of the uniformity achieved for DP 1541.

UI	Description	Number of bales	Percentage
0,0 - 76,9	Very low	0	0,0%
77,0 - 80,9	Low	2 402	46,6%
81,0 - 84,9	Medium	2 750	53,4%
85,0 - 89,0	High	0	0,0%
Total		5 152	100%

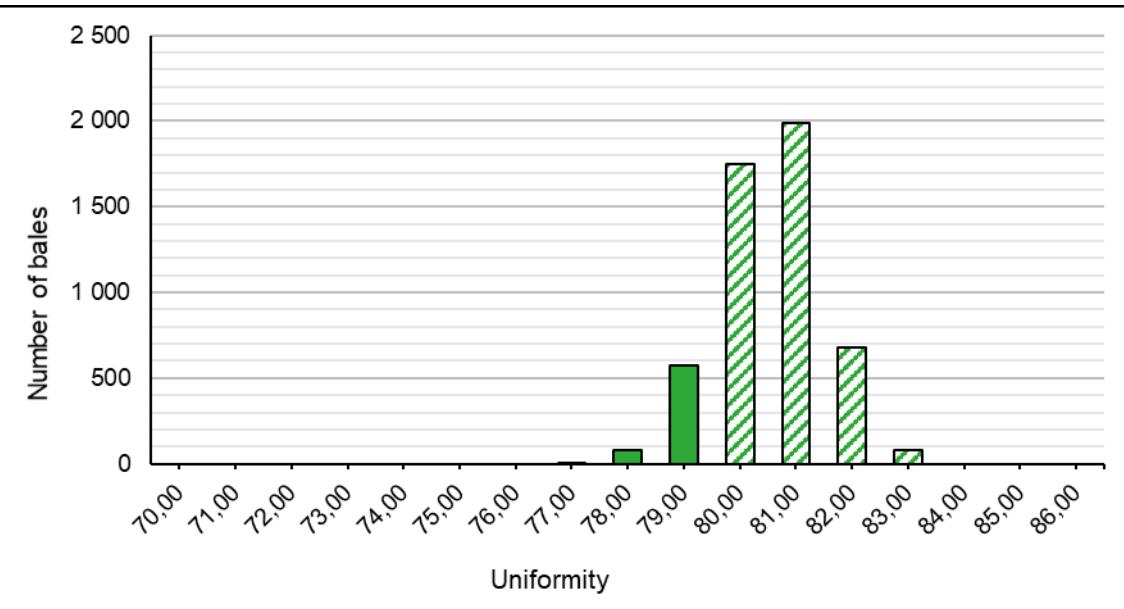


Figure 36: Distribution of DP 1541 by uniformity.

Table 37: Summary of the spinning consistency index achieved for DP 1541.

SCI	Number of bales	Percentage
0 - 99	2	0,0%
100 - 119	1 404	27,3%
120 - 130	2 688	52,2%
131 - 140	985	19,1%
141 - 150	73	1,4%
151 - 170	0	0,0%
Total	5 152	100%

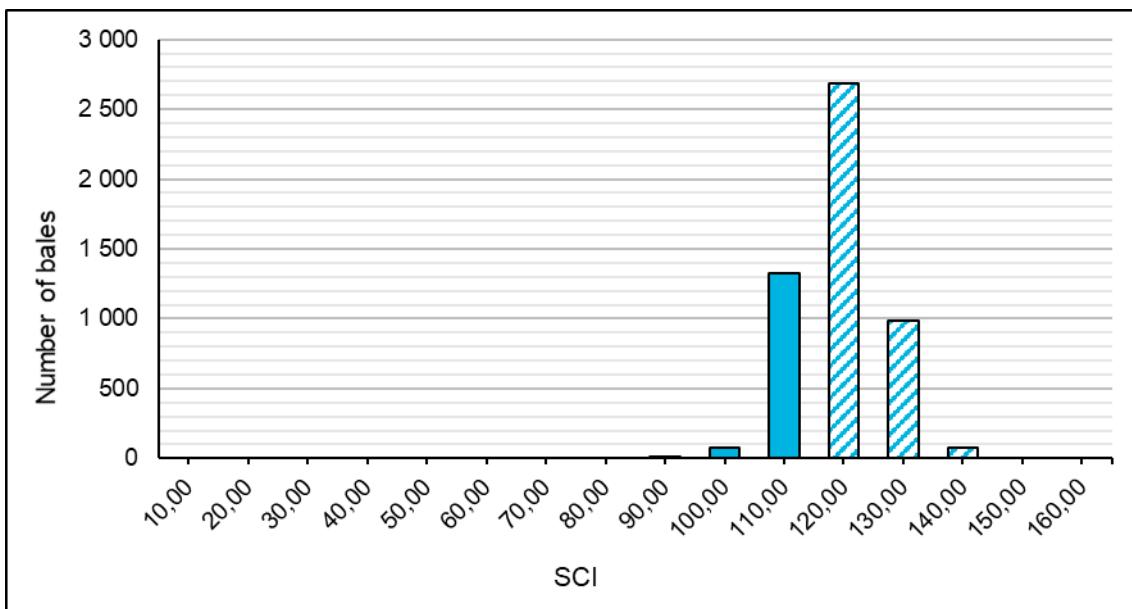


Figure 37: Distribution of DP 1541 by spinning consistency index.

PM 3225 (Paymaster)

Table 38: Summary of the grade achieved for PM 3225.

Grade	Number of bales	Percentage
Good Middling (GM)	159	28,6%
Strict Middling (SM)	342	61,5%
Middling (MIDD)	55	9,9%
Strict Low Middling (SLM)	0	0,0%
Low Middling (LM)	0	0,0%
Strict Good Ordinary (SGO)	0	0,0%
Total	556	100%

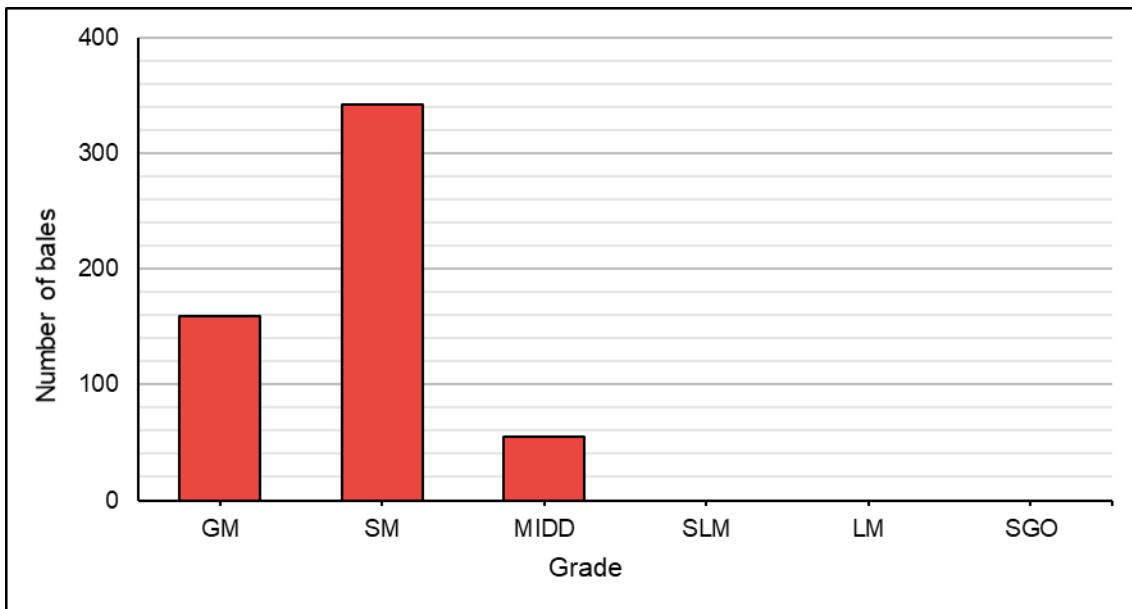


Figure 38: Distribution of PM 3225 by grade.

Table 39: Summary of the length achieved for PM 3225.

Length	Description	Number of bales	Percentage
0,0 - 0,97	less than 1"	0	0,0%
0,98 - 1,04	1 1/32"	69	12,4%
1,05 - 1,07	1 1/16"	267	48,0%
1,08 - 1,10	1 3/32"	169	30,4%
1,11 - 1,13	1 1/8"	43	7,7%
1,14 - 1,16	1 5/32"	5	0,9%
1,17 - 1,40	1 3/16" and greater	3	0,5%
Total		556	100%

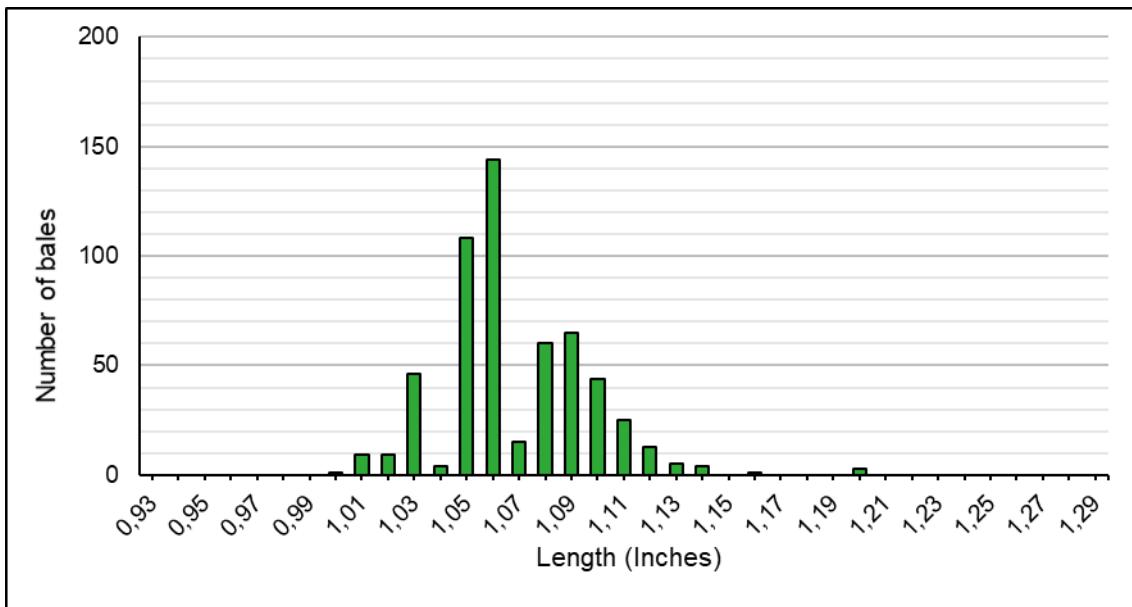


Figure 39: Distribution of PM 3225 by length.

Table 40: Summary of the strength achieved for PM 3225.

Strength	Description	Number of bales	Percentage
0,0 - 21,99	Very weak	0	0,0%
22,0 - 24,49	Weak	8	1,4%
24,5 - 27,99	Medium	144	25,9%
28,0 - 29,99	Strong	334	60,1%
32,0 - 45,00	Very strong	70	12,6%
Total		556	100%

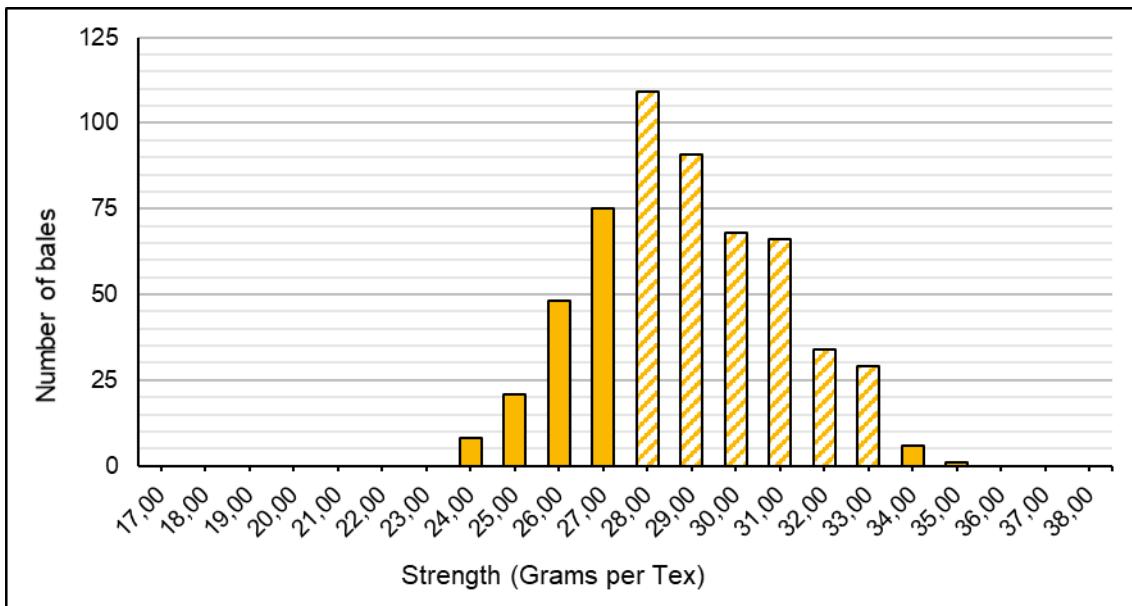


Figure 40: Distribution of PM 3225 by strength.

Table 41: Summary of the micronaire achieved for PM 3225.

Micronaire	Description	Number of bales	Percentage
0,0 - 2,99	Very fine	7	1,3%
3,0 - 3,79	Fine	299	53,8%
3,8 - 4,79	Medium	247	44,4%
4,8 – 5,4	Coarse	3	0,5%
Total		556	100%

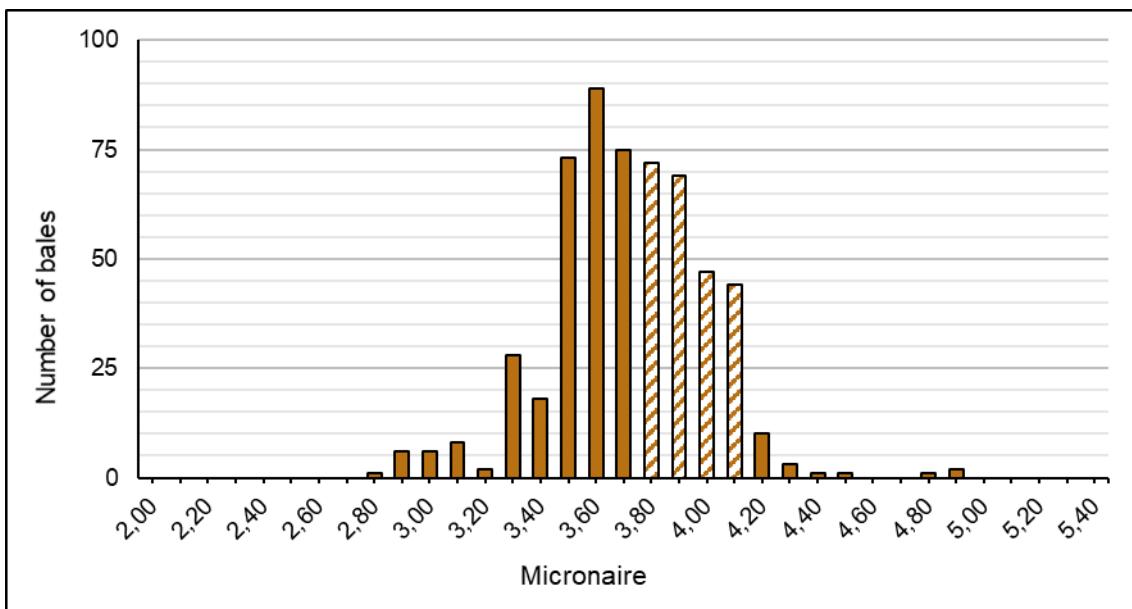


Figure 41: Distribution of PM 3225 by micronaire.

Table 42: Summary of the short fibre index achieved for PM 3225.

SFI	Description	Number of bales	Percentage
0,0 - 5,99	Very low	0	0,0%
6,0 - 9,99	Low	455	81,8%
10,0 - 13,99	Medium	101	18,2%
14,0 - 17,99	High	0	0,0%
18,0 - 30,00	Very high	0	0,0%
Total		556	100%

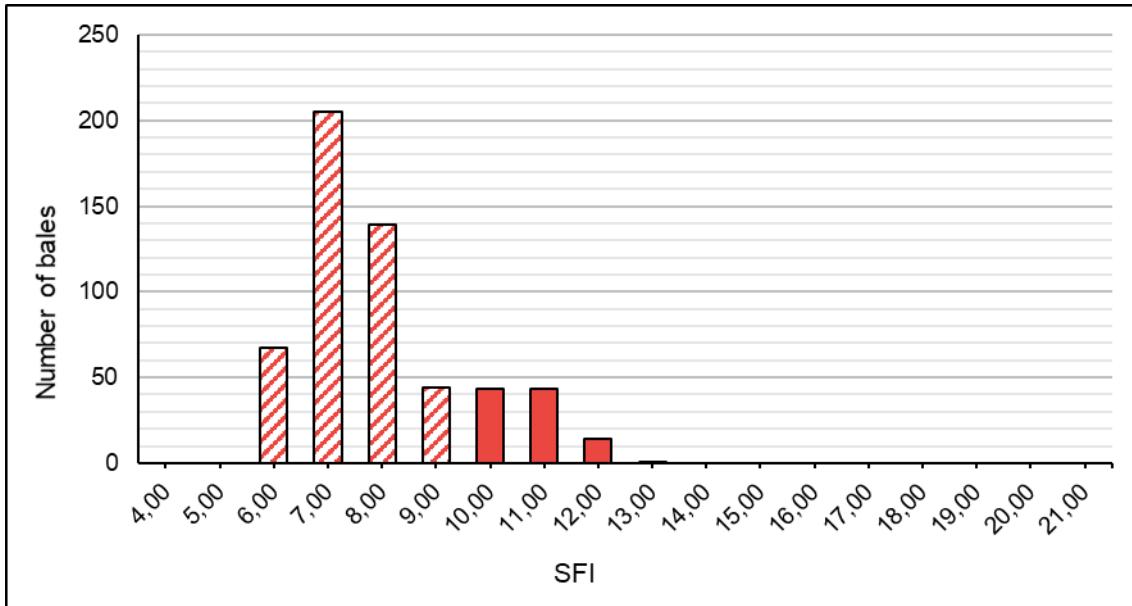


Figure 42: Distribution of PM 3225 by short fibre index.

Table 43: Summary of the uniformity achieved for PM 3225.

UI	Description	Number of bales	Percentage
0,0 - 76,9	Very low	0	0,0%
77,0 - 80,9	Low	149	26,8%
81,0 - 84,9	Medium	407	73,2%
85,0 - 89,0	High	0	0,0%
Total		556	100%

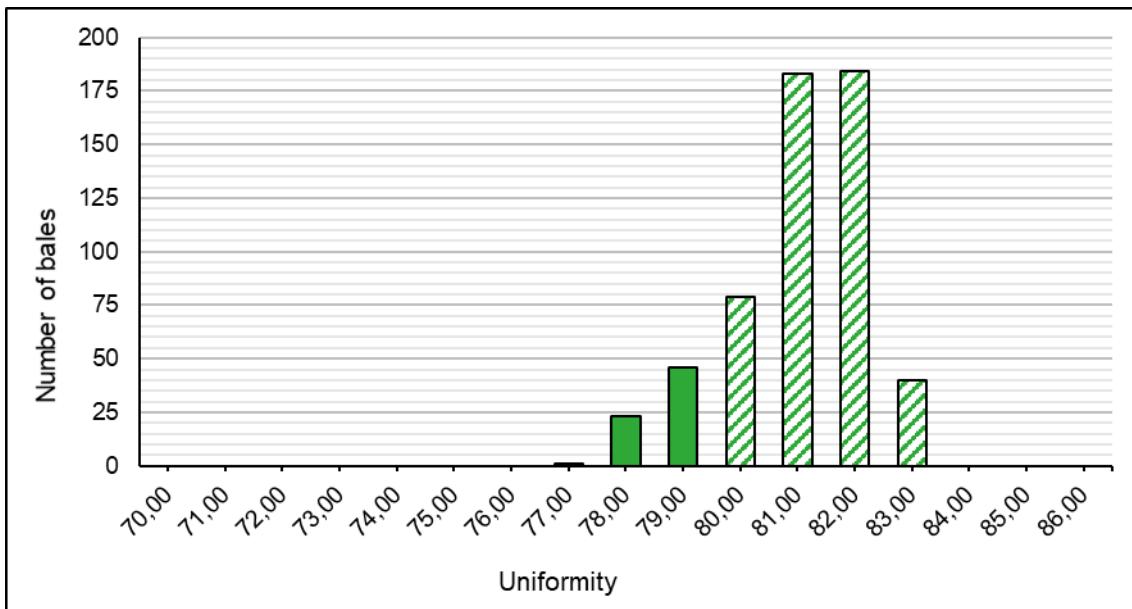


Figure 43: Distribution of PM 3225 by uniformity.

Table 44: Summary of the spinning consistency index achieved for PM 3225.

SCI	Number of bales	Percentage
0 - 99	5	0,9%
100 - 119	115	20,7%
120 - 130	155	27,9%
131 - 140	205	36,9%
141 - 150	73	13,1%
151 - 170	3	0,5%
Total	556	100%

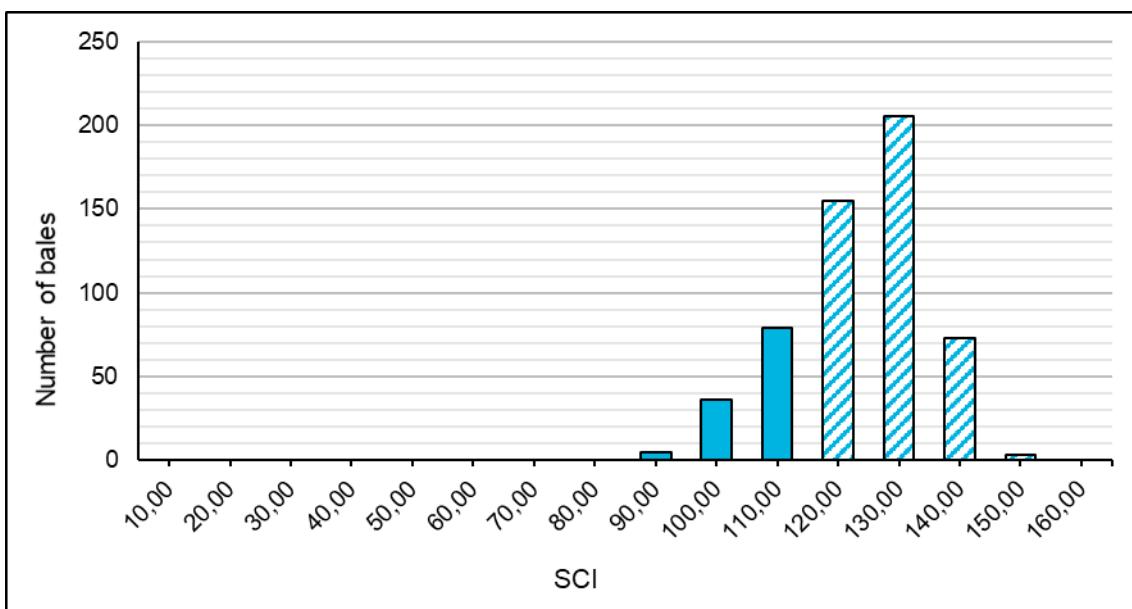


Figure 44: Distribution of PM 3225 by spinning consistency index.

References

Uster Technologies AG. 2008. *Uster HVI 1000 Application Handbook*. Switzerland: Uster Technologies AG.