

USE OF THE WOOL BUYERS' FAULT REPORTS TO MONITOR THE INCIDENCE OF CONTAMINATION AND FAULTS IN THE SOUTH AFRICAN WOOL CLIP

J.L. Venter

National Wool Growers Association of South Africa, PO Box 4520, Bloemfontein 9300, South Africa

JL Venter janlouis@nwga.co.za

Background: South African wool is an internationally sought-after commodity. The wool price is determined by a number of factors, including contamination and classing faults. Whilst the South African clip is generally well-classed, contamination and classing mistakes is not only detrimental to the price of wool, but also conveys a negative image of the clip.

Table 1: Fault reports per category for the 2010/11 season to the 2022/23 season

Fault	Season												
	2010 11	2011 12	2012 13	2013 14	2014 15	2015 16	2016 17	2017 18	2018 19	2019 20	2020 21	2021 22	2022 23
1. Mixed lengths (>20mm variation in the line)	205	624	929	993	811	311	289	217	528	410	171	0	0
2. Mixed quality (poorly skirted)	19	18	69	67	48	0	0	0	0	0	0	0	0
3. Sweaty pieces in main line	0	1	0	0	0	0	0	0	0	0	0	0	0
4. Piece and belly lines urine/dung stained	0	15	1	4	1	1	0	0	0	0	2	0	0
5. Contamination: Baling twine, plastic	49	200	859	1287	1228	830	996	1542	281	270	426	243	230
6. Black hair	12	2	24	44	77	98	155	58	22	3	2	0	0
7. Kemp/medullated fibre	6	2	2	26	20	65	155	42	16	0	3	0	0
8. Contamination: Paint, marking ink	368	222	297	179	144	59	69	32	11	3	1	1	0
9. Contamination: Cigarette butts, etc.	1	2	0	1	0	0	0	0	0	0	0	0	0
10. Contamination: Metal wire, clips, etc.	4	1	2	9	0	3	1	7	0	0	0	1	0
11. Contamination: Other	303	16	27	48	10	21	31	50	19	10	4	8	4
Total faults	960	1103	1834	2658	2309	1388	1696	1948	877	696	609	253	234
Number of lots with faults	937	1096	1823	2636	2284	1317	1535	1891	859	696	607	252	234

Results: The main fault reported polypropylene and plastic contamination. Paint and marking ink, Kemp fibre contamination, and black hair were reported in significant numbers to the 2018/19 season. Over the last two years the number of faults declined to a single digit number. During the 2022/23 season no faults were reported. There was a marked decline in Baling twine and plastic contamination (1542 in the 2017/18 season to 230 in the 2022/23 season). Mixed lengths significantly decreased from 171 to zero. The total number of clip faults has drastically declined in comparison to previous years (1948 in the 2017/18 season to 234 in the 2022/23 season). One can only speculate that the drive for certification of producers (RWS, ZQ, SCWS and Abelusi) may have played a significant role in the decline through making producers aware of contamination issues.

Mixed lengths:

This fault increased over the seasons from 2010/11 to 2013/14 (205 to 929 incidences). Thereafter it steadily began to decrease over the next six seasons (811 to 217 incidences). A sudden increase occurred in the incidence of mixed lengths to 528 in the 2018/19 season. Fortunately, it declined

during the last three seasons (2019/20, 2020/21 and 2021/22) to 410, 171 and zero in the last two seasons.

Polypropylene, baling twine and plastic

The incidence of polypropylene, baling twine, and plastic contamination increased dramatically from the 2010/11 season to the 2013/14 season (49 to 1297 incidences). Following a penalty fine introduced by the industry for this type of contamination, incidence decreased to 1228 in the 2014/15 season and to 811 in the 2015/16 season. Unfortunately, in the 2016/17 and 2017/18 seasons this type of contamination increased again to 996 in the 2016/17 season and to an all-time high of 1542 in the 2017/18 season. This dropped significantly during the 2018/19 and 2019/20 season (281 and 270 respectively). Unfortunately, the 2020/2021 season saw an increase of 58% in this type of contamination (270 to 426). This type of contamination decreased in the last season (2022/23) to 230, the lowest in 13 years. Producers must still be very careful with a high incidence rate of these contaminants, as it tarnishes the appeal of the SA Clip.

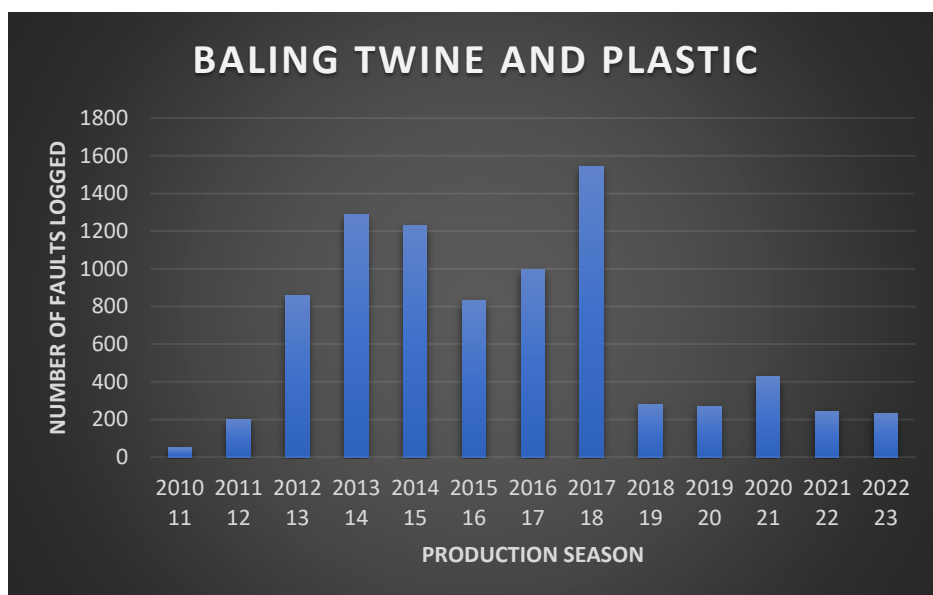


Fig 1: Incidence of Baling twine, Polypropylene, and plastic contamination over the 2010/11 to 2021/22 seasons

Paint and marking ink

Paint and marking ink contamination consistently decreased over this period (368 in 2010/11 to 1 incidence over the last 2 years to 0 for the 2022 23 season).

Producers reacted well to the efforts of brokers and extension personnel to curb this type of contamination.

Kemp/medullated fibres

Kemp steadily increased over this period until the 2016/17 season (6 in 2010/11 to a high of 155 incidences in the 2016/17 season). The incidences then dramatically decreased over the next five seasons, with 0 incidences reported from the 2022/23 season.

Black hair:

Black hair increased over the period from 12 in the 2010/11 season to 155 incidences in the 2016/17 season. Fortunately, this trend turned around and a dramatic decrease in black hair contamination, as 2 incidences were recorded in the 2020/21 season while zero incidences were recorded in the 2021/22 and 2023/23 season.

Conclusion

The overall incidence of clip faults is the lowest in 13 years and a total of 234 faults were recorded over the past year.