

Introductory notice

This document includes the proceedings of the communications that were presented during the final seminar. Communications from external speakers from the Project CFC / ICAC / 11 are given *in extenso* under the author's responsibility. All communications relating Project results are presented in the form of the titles of the presentations. The general conclusion extracted from the Technical Report N°17 is recalled here.

Most of the technical information and results of the project are given in the following book in English language:

- Technical Report N° 17.

The same report exists in French under the following title:

- Rapport Technique n° 17.

More details can be found in the book:

- Technical Report on Research Activities, available on the Common Fund for Commodities and International Cotton Advisory Committee web sites.

Finally, the French version of these proceedings is given in the book:

- Proceedings of the Final Seminar.

All books are available at the Common Fund for Commodities or at Cirad.

This report has been produced by the project. The views expressed here in are not necessarily stored by the Common Fund for Commodities.

General abstract of the book

This seminar gave the opportunity to present all the acquired results up to now on the project labeled Improvement of the Marketability of Cotton Produced in Zones Affected by Stickiness funded the Common Fund for Commodities and the International Cotton Advisory Committee.

The Sudan Cotton Company, the Agricultural Research Corporation, the Institut Textile de France, and the Cotton Technology Laboratory of CIRAD-CA have been partners to accumulate all the results which were shown

Stickiness of cotton fibers is an important problem in economic terms for the cotton business, from the grower to the transformation stages in the textile industry. The ongoing researches were able to define, for the first time, the importance of the problems which occur during spinning. Clear effects of stickiness on the productivity of an industrial mill have been shown. The quality of the yarns, obtained through ring spinning or open end spinning is sensitive to stickiness.

The classification of the bales produced using the H2SD (High Speed Stickiness Detector) seems to be a valid solution, both in technical and economical terms at the production stage.

Some other solutions exist to suppress the effect of stickiness, but were not studied during this project. However, the effect of relative humidity and the effect of mixing sticky cotton with non-sticky cottons were studied at the laboratory scale.