



CRC

for

Premium

Quality

Wool

Standards for Fibre Diameter Measurement

Produced for the CRC for Premium Quality Wool undergraduate program by;
Michael Bow, retired, CSIRO Division of Wool Technology and,
David Petrie, The University of New South Wales,



Current Standards

- **IWTO- 6:** Method of test for the determination of the mean diameter of wool fibres in combed sliver using the Airflow apparatus
- **IWTO- 8:** Method of determining fibre diameter & percentage of medullated fibres in wool & other animal fibres by the Projection microscope
- **IWTO - 12:** Measurement of the mean & distribution of fibre diameter using the Sirolan-Laserscan fibre diameter analyser.
- **IWTO - 28:** Determination by the Airflow method of the mean fibre diameter of core samples of raw wool.
- **IWTO - 47:** Measurement of the mean & distribution of fibre diameter of wool using an optical fibre diameter analyser (OFDA)
- **AS/NZS 4492:** Wool-Fleece testing and measurement

CRC

for

Premium

Quality

Wool



Test Method Specifications

- **Accuracy**
 - standard atmosphere
 - regain and temperature
 - instrument
 - calibration
- **Precision**
 - sampling
 - number of instruments
 - adoption of precision level
 - maximum differences

CRC

for

Premium

Quality

Wool



Inter-Laboratory Round Trials

- monitor between laboratory effects
- can apply to ANY standard
- **INTERWOOL LABS**
 - Standard Calibration Tops
 - Performance information
 - Data on testing variance

CRC

for

Premium

Quality

Wool