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for

Premium

Quality

Wool

# The Development of Raw Wool Metrology

Produced for the CRC for Premium Quality Wool undergraduate program by;  
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# Impetus for Raw Wool Metrology

- **International Wool Textile Organisation (IWTO)**
  - international trade in wool
    - standards & fair trading
  - includes major trading nations
  - Standards Australia TX/12 Raw Wool Committee
- **Industry**
  - Topmakers
  - Buyers
- **Australian Wool Research and Promotion Organisation (AWRAP)**
  - Australian Wool Testing Authority (AWTA)
  - CSIRO Division of Wool Technology (DWT)

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# History of Wool Metrology

- **Experience, Tradition**
  - mills acting independently
  - experienced processors and buyers
    - largely lost
- **Sale by Sample**
  - preferred marketing method (AWC)
    - cost saving
    - instruments available at required precision (CSIRO)
    - measurements available at reasonable cost (AWTA)



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# Sampling Methods

- **Core testing**
  - 1970's
    - diameter, CV diameter
    - yield, VM, scoured colour
    - curvature
- **Grab testing**
  - early 1980's
  - introduction of additional measurements
    - SS, SL, POB
    - CVSS, CVSL

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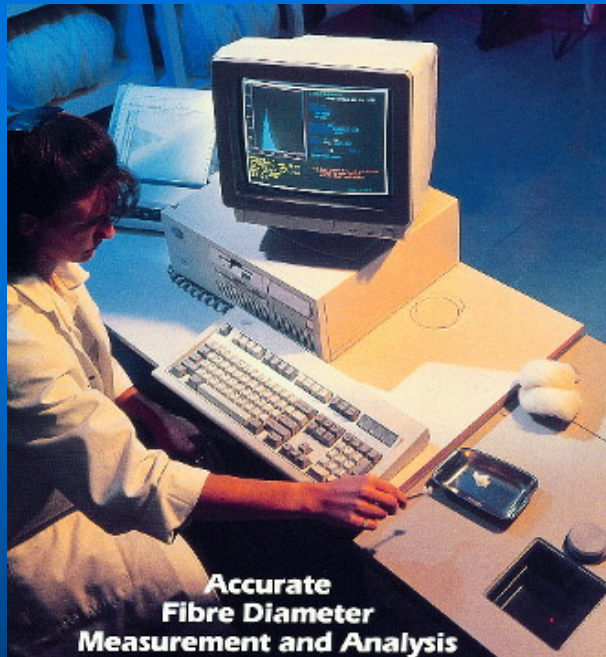
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# Future Metrology Developments

- **Diameter**
  - CV of Diameter
    - year 2000
      - LASERSCAN
      - OFDA
- **Style**
  - current
- **Curvature**
  - current
- **Sale by Description**
  - more specification required
- **electronic selling**
  - AWEX initiating
  - AWTA



**Accurate  
Fibre Diameter  
Measurement and Analysis**

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