



CRC

for

Premium

Quality

Wool

Staple Sampling

Produced for the CRC for Premium Quality Wool undergraduate program by;
Angus Ireland, Australian Wool Testing Authority Ltd.



Standards

- **IWTO - 38 - 91:**
 - Method of grab sampling greasy wool from bales.
- **IWTO - 7 - 92:**
 - Sub-sampling staples from grab samples.
- **IWTO - 30 - 98:**
 - Determination of staple length & staple strength.

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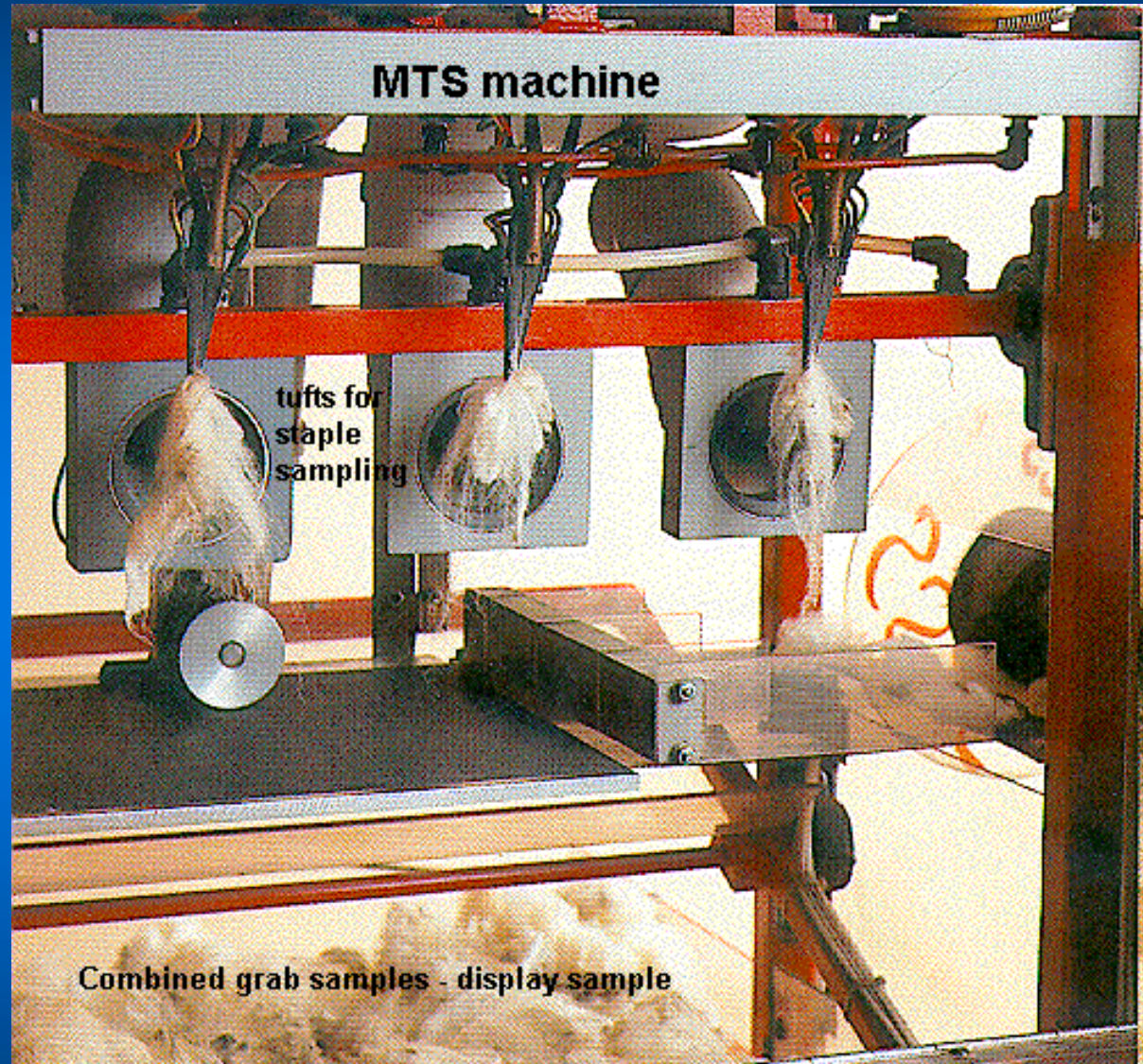
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**Tuft
sampling of
display
sample for
subsequent
staple
sampling**



Angus Ireland



Rules to assist staple preparers obtain representative staples

“SQP”

- Separate tufts into 20 sets of 3
- Quickly obtain the first staple end identified
- Prepare the staple by removing obvious wisps

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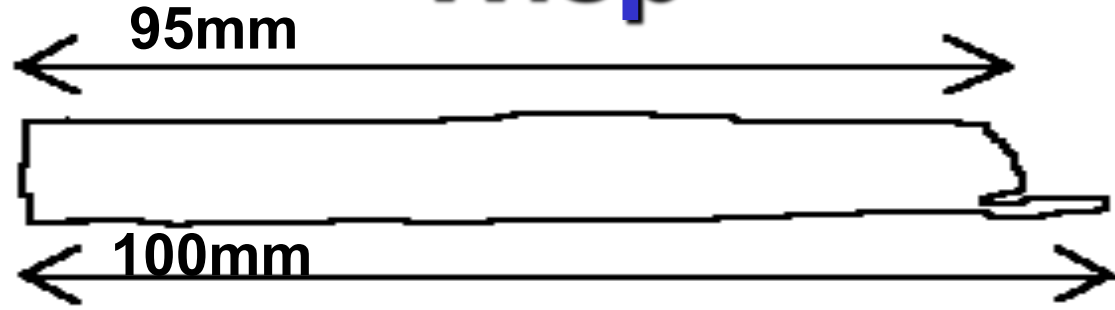


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Tray

- Allows staple to recover; and
- Ensures staple is straight

Wisp



Conditions

- 10%RH = 95mm
- 90%RH = 100mm



Assessing Representative Samples

Within laboratory trials

- All preparers prepare the same lot

Between laboratory trials

- Several labs routinely prepare and measure the same lots

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Representative Sample Improvement

- Prepare more staples
- Use more staple preparers
- Use a machine
 - Automatic Staple Preparer (ASP)

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