## Manufacturing Of

# COTTON And LINEN fibre

- 1. Cutivation 180
- 2. Gathering of cotton pods
- 3. Ginning
- 4. Bailing

#### Process of Making Cotton Fabric

 Cotton is picked up from the fields. The seeds are separated by combing. This process is known as ginning.



Ginned cotton is compressed to form bales. These bales are sent to the spinning mills.



The cotton bales are loosened and cleaned. This process is known as carding.

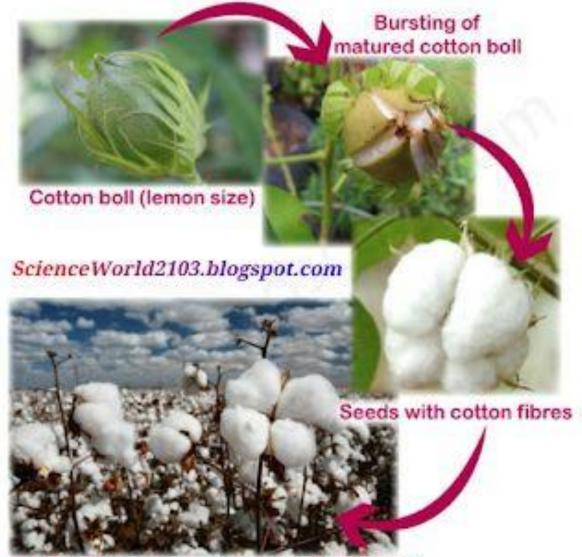


• The cotton fibres are then converted into rope-like loose strands. The strands/ slivers are twisted to make yarns. This process is known as the <u>spinning of cotton yarns</u>.



The yarns are then used to make fabrics by weaving and knitting.





Cotton field, looks as if covered with snow

# THE COTTON GIN Cotton bolls with seeds Seeds Brushes Clean cotton Cylinder Container for Container for cotton bolls clean cotton

#### BAILING





#### CARDING





#### COMBING







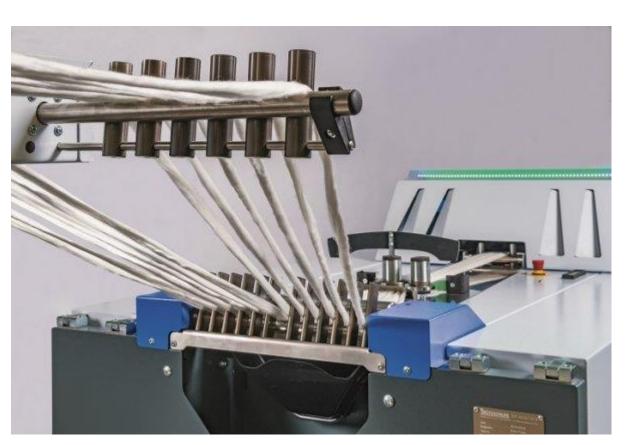
(a) (b)





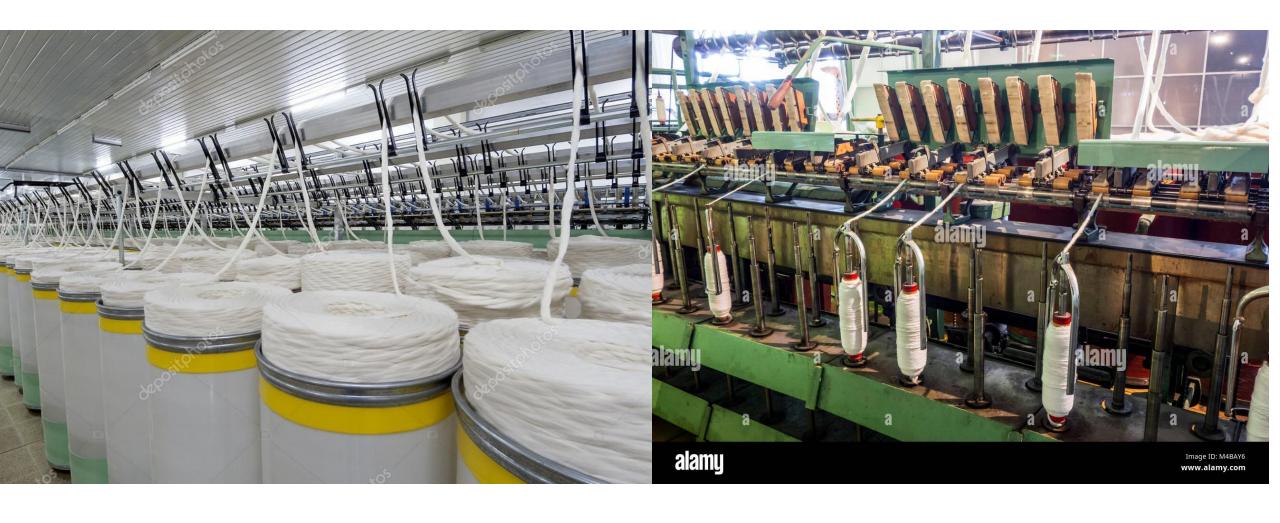
(c) (d)

#### DRAWING AND SLIVERING





## ROVING (Twist)



#### **SPINNING**



#### MANUFACTURING OF LINEN FIBRE

- Cultivation
- Pulling
- Drying and Rippling
- Retting
- Breaking and scotching
- Hackling and combing
- Spinning





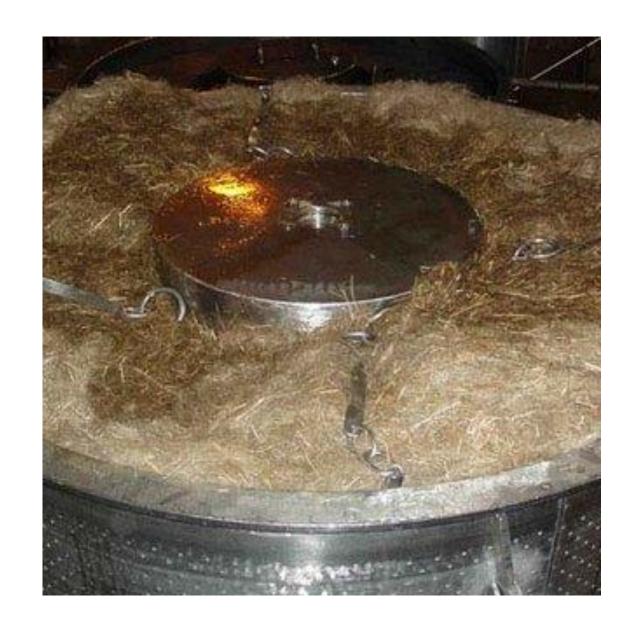
#### Water Retting



### Dew Retting



#### Wooden Vat Retting



## Pool retting



#### Breaking and Scutching





#### Hackling and Combing



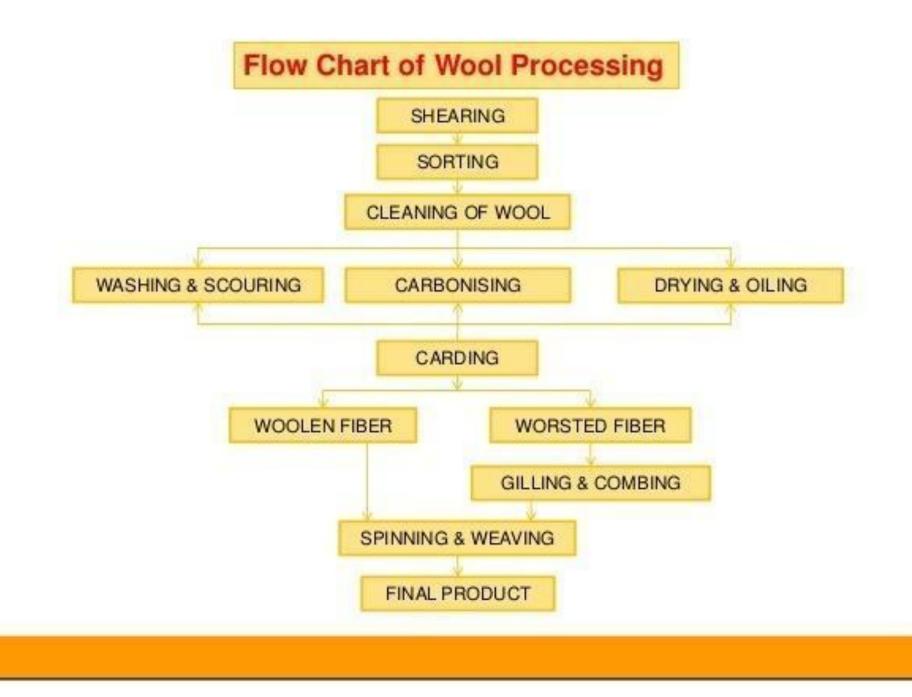


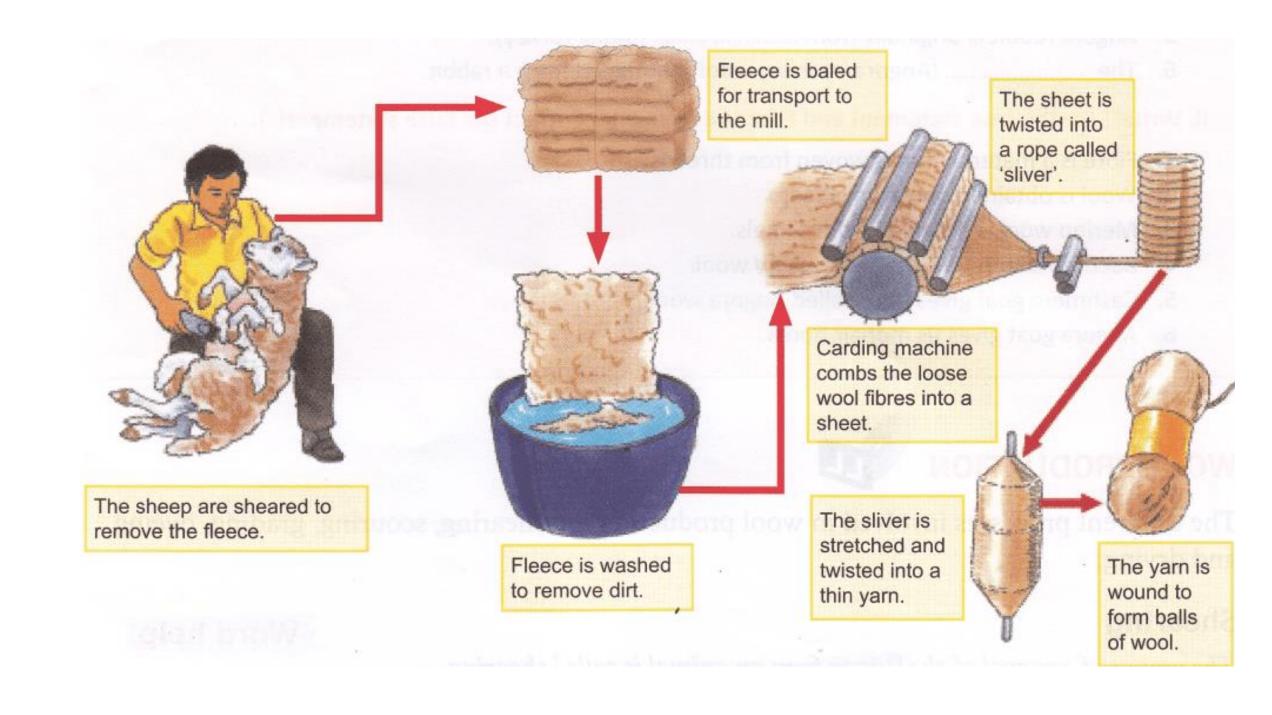


#### Linen Fibres



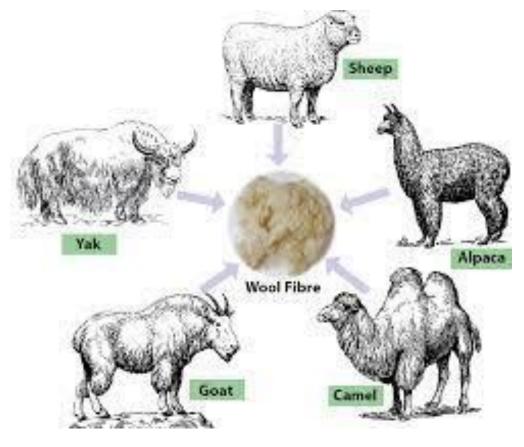
# WOOL FIBRE





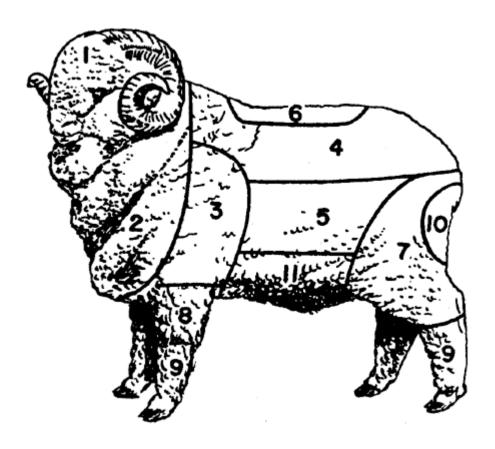


#### WOOL FIBRE

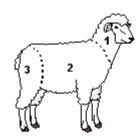




#### Sorting and Grading



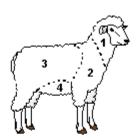
#### **FINENESS**



Three groups of fineness, with rankings from finest to coarsest:

- The head wool,
- 2. The dominant or bulk wool over the body, and
- The rump and britch wool.

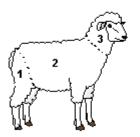
#### DENSITY



Three groups of fiber density with rankings from most dense to least dense:

- The head wool,
- The neck and shoulder wool,
- The dominant wool, and
- The belly wool.

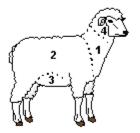
#### LENGTH



longest to shortest:

- The lower britch wool,
- The dominant wool, and
- The head wool.

#### CLEANWOOL YIELD



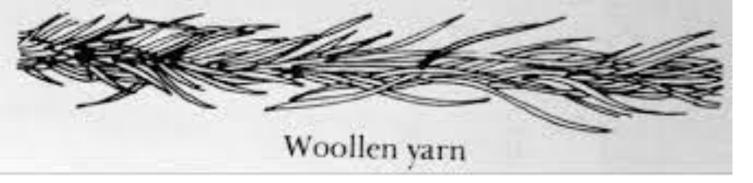
Three groups of fiber length with rankings from | Four groups of yield, with rankings from highest percent yield to lowest percent yield:

- The neck wool,
- The dominant wool,
- The belly wool, and
- The head wool.



### CARDING







Worsted yarn



#### What's the difference between Woolen and Worsted?

Woolen and worsted are two different classifications of wool fabrics and yarn. The table below list some of their characteristics:

Woolens	Worsted		
Spun from short wool fibers (1-3 inches long)	Spun from long wool fibers (more than 3")		
Spun from medium or coarse diameter wool fibers	Spun from fine diameter wool fibers		
Fibers are washed, scoured and carded	Fibers are washed, scoured, carded, combed and drawn		
lower tensile strength than worsteds	higher tensile strength than woolens		
low to medium twist	tighter twist		
Bulky, uneven yarn	Fine, smooth yarn		
Soft, fuzzy appearance	crisp, smooth appearance		
heavier weight	lighter weight		
not as durable as worsteds	More durable than woolens		
does not hold crease well	holds crease well		

#### COMBING









# Manufacturin g Of Wool

#### **Process**

- Washing of sheep
- Cleaning- Scouring and Carbonising
- Drying and Oiling
- Dyeing and Blending
- Carding for woolen and worsteds
- Combing for worsteds
- Gilling
- Drawing, Roving and Spinning

# Manufacturing Of Wool