GROWING AND

HARVESTING

Australian cotton growers select cotton varieties that are bred to optimise yield

and fibre quality based on different climate conditions in

each region. Throughout the

180-day cotton plant growing

cycle, growers make decisions

to optimise fibre quality -

from planting to harvesting.

pest and weed management

Seed varieties, weather, water,

and harvest conditions are all

factors that affect fibre quality.

Australia's climate, system of research and development, infrastructure, regulatory framework and the competence of our farmers makes it an ideal place to grow cotton, right on the doorstep of the world's fibre market. Australia's cotton industry is efficient, modern, responsible and sustainable.



Australian cotton is valued for its low contamination, staple length, strength and micronaire – a measure of fibre fineness and maturity.



Seed cotton is picked from the plant, pressed into modules and transported to a cotton gin where the cotton lint is separated from the fuzzy seed, the cotton is classed for its quality, and then it is sold usually by a cotton merchant to a spinner located overseas.



selected to satisfy the requirements of a particular end use. They are then laid down, opened and loosened so the fibres can relax.

Bales are

The chosen bales (sometimes from multiple countries) are blended to ensure a consistent and homogenous blend of fibres.



OPENING

Carding individualises, aligns and further cleans the fibres, condensing them into a single continuous strand called a 'sliver'.

Blended fibre is passed

through machines which use

a number of different beaters

to remove any contaminants

from the lint (e.g. plant and

CLEANING

non-plant material).



Drawing and combing straightens the sliver to improve uniformity and evenness, eliminating short fibres.

AND COMBING



Spinning is the process

yarn of a certain weight.

There are three types

of spinning. Australian

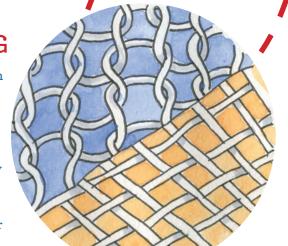
cotton is mainly spun on

ring spinning machines.

SPINNING

of twisting the fibres to a

Knitting machines join yarn together with interlocking loops to form knitted fabric. Weaving machines interlace yarns usually at right angles to each other to form woven fabric, generally either plain weave or twill weave fabric.



DYEING

Cotton can be

dyed many different

stages of processing.

colours at various

Finishing is the process that gives the fabric its final appearance, feel and practical attributes. Finishing can include softening, water repellence or permanent press.

FINISHING

UP

Woven fabrics are cut and sewn together to form garments, while knitwear pieces are 'linked' together to produce a final

After processing, the garments are abelled so consumers know how to care for their new cotton clothing, where it is made and sometimes even how it is grown.

> specify Australian cotton in their supply chains have confidence that their raw cotton is esponsibly produced

COTTON CLASSROOM

Cotton Australia's Cotton Classroom site has information, lessons, units, education kits, classroom videos, presentations and much more.

http://cottonaustralia.com.au/cotton-classroom

graphs courtesy: Heath McWhirter, Annette Coward, Joanne Campbell, Julie Reardon, Pete Johnson, Cotton Inc. Illustrations: Liz Grant



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