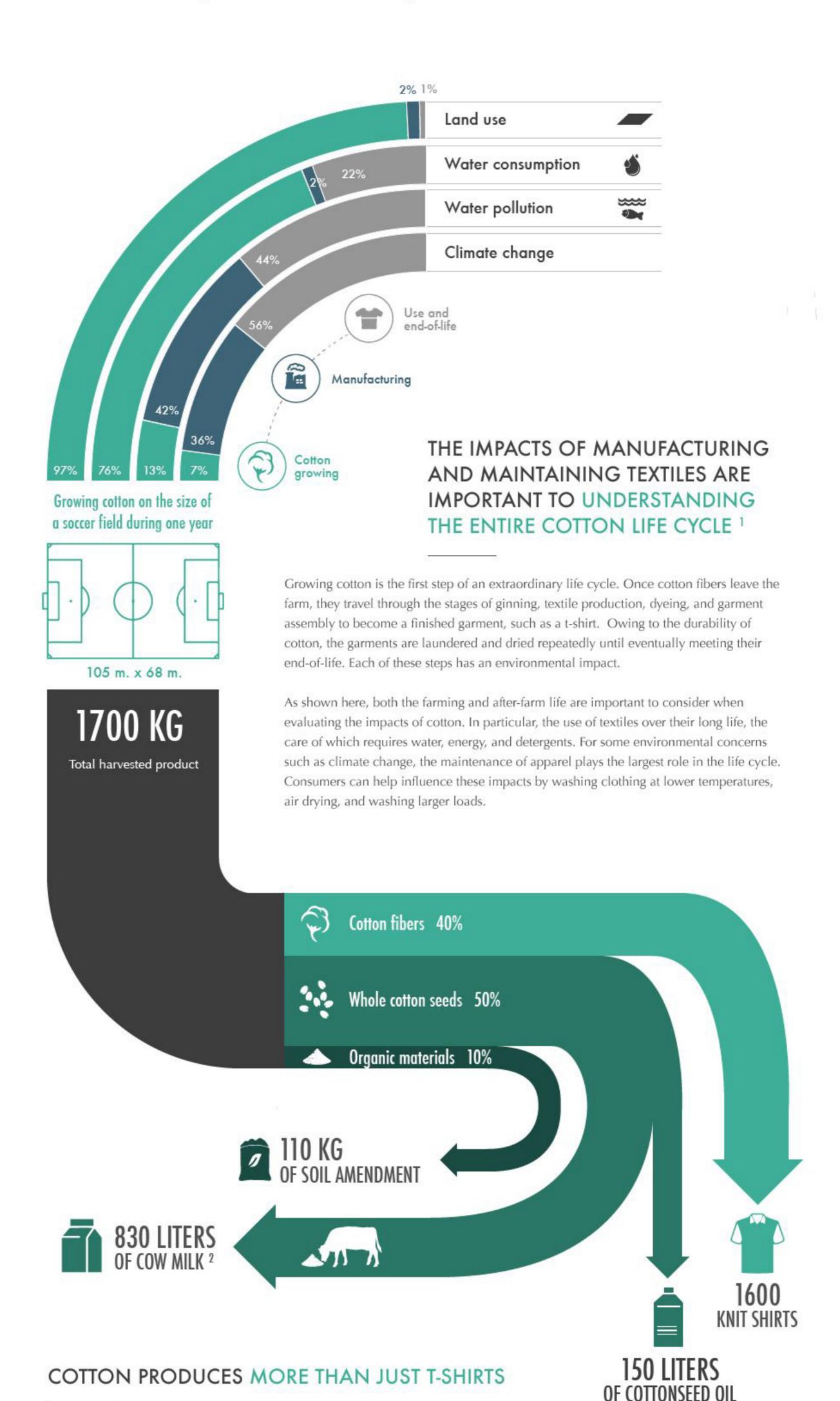
THE IMPACT OF GROWING COTTON TO THE GARMENT LIFE CYCLE

Environmental impact and economic output



It is not widely known, but each cotton harvest produces more cottonseed than cotton fiber. This seed has a variety of applications but is primarily used as a cattle feed supplement and for the production of edible oil. Other byproducts of the cotton harvest can be used as compost. Thus, cotton is simultaneously a fiber and a food crop.

The decrease of land use per kg of lint helped reduce other environmental impacts 1980 2011 -22% -30% -75% Climate change Land use Water consumption

COTTON IMPROVED ON ALL MEASURES OF RESOURCE "EFFICIENCY," WITH DECREASES IN PER KG OF FIBERS 3

A key indicator of these efficiencies is the increasingly favorable ratio of land area planted with cotton to the volume of cotton produced. As a rule, increased efficiency decreases environmental impact.

Water consumed to irrigate cotton has been reduced by 75% over the past 30 years and is equivalent to 20 cm of irrigation water applied to the football field. In fact, only 40% of cotton fields are irrigated currently. Cotton accounts 4% of total water volume used for irrigation used in the United States.

Climate change impact has also been reduced by 22%, down to 1,215 kg of CO2 equivalents for the football field, thanks to increased yield, better field practices and better management of fertilizers, among others.

COTTON INCORPORATED COMMITMENTS

Cotton Incorporated has a dedicated team of sustainability specialists and researchers working to improve cotton's environmental impact. They monitor the effects of cotton production on the environment and are continuously developing new solutions to lessen the impacts. The Cotton Incorporated sustainability strategy has three main axes, presented here.

Cotton as a food crop \$1 MILLION INVESTED PER YEAR Water management Fertlizer management

Sources: 1 http://cottontoday.cottoninc.com/sustainability-about/LCI-LCA-Cotton-Fiber-Fabric/

- 2 Adapted from Bouwman et al. 2005, Exploring changes in world ruminant production systems, Agricultural Systems 84: 121-153. This is a rough estimate and might vary depending on farming system, nutrient and protein content and constitution of feed, etc. It has here an illustrative purpose only.

Water pollution is calculated based on eutrophication and ecotoxicity impacts. The ecotoxicity indicator was calculated based on USEtox methodology.