Presented by



A Tour Through the Cotton Supply Chain

Mark Messura

Senior Vice President, Global Supply Chain Marketing Cotton Incorporated









Mission

Improve the demand for and profitability of cotton through research and promotion











- Not-for-profit company
- Science-based organization
- Worldwide sharing of research and knowledge







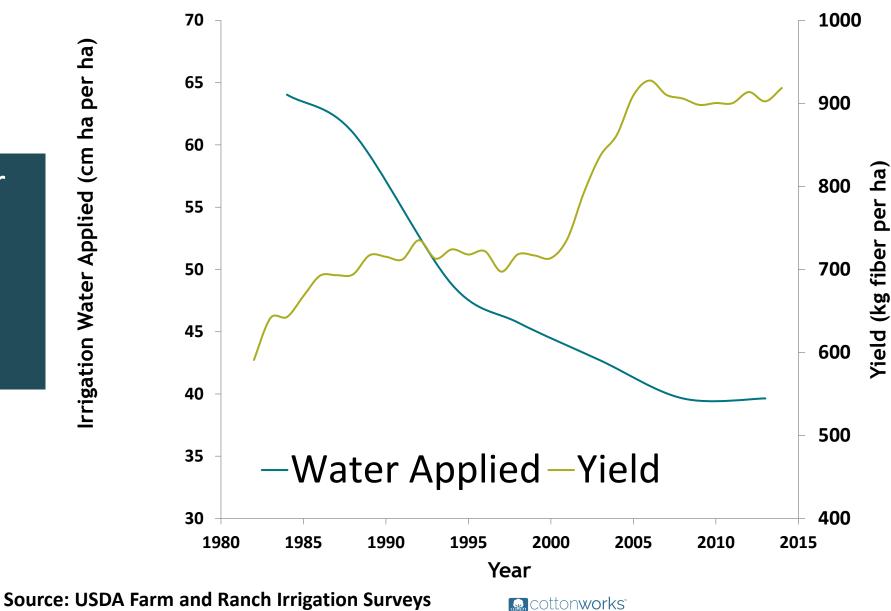
U.S. Water & Yield Trends

Decreased water use: **40%**

Irrigation Water Applied (cm ha per ha)

Increased yields: 50%





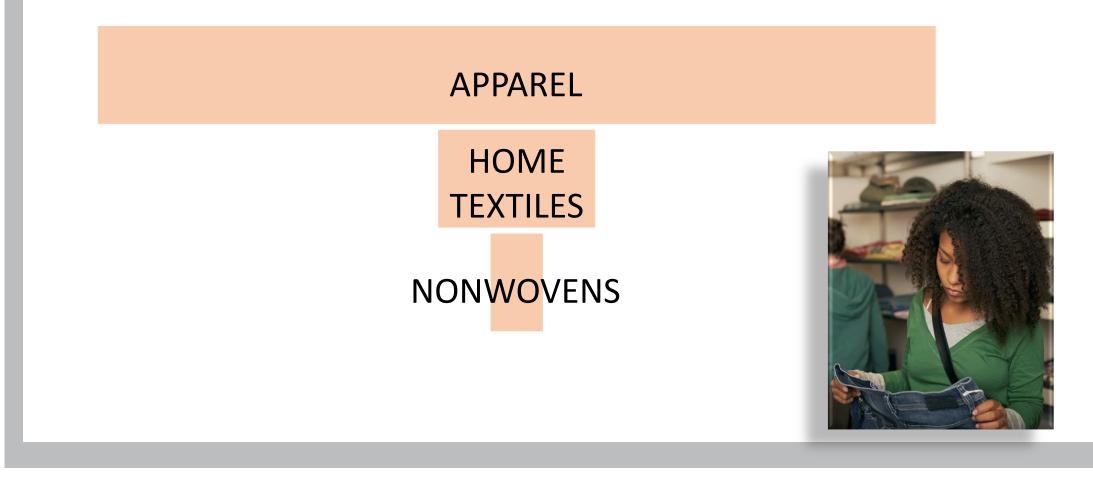


The Global Supply Chain for Cotton

_	Farm	Product	Consumers
	77 Countries	62 countries <u>export</u> cotton	
	Grow Cotton	81 countries <u>import</u> cotton	Almost all consumers use textile products
		Over 120 countries manufacture cotton products	
Ρ	CORPORATE RESPONSIBILITY	Source: USDA <i>Cotton: World Markets and Trade</i> , October 2020	© cottonworks PPA ONLINE ducation



End Uses for Cotton Fiber









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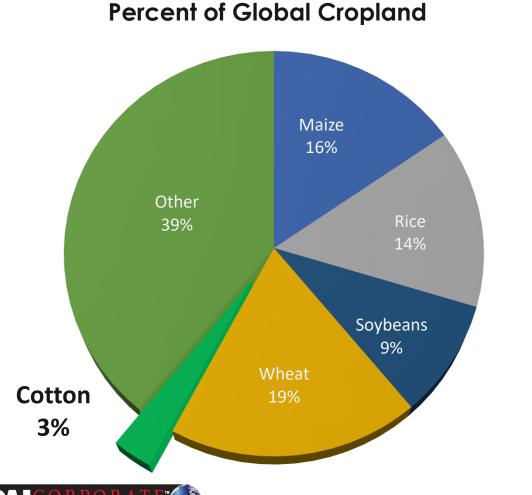
Cotton Production

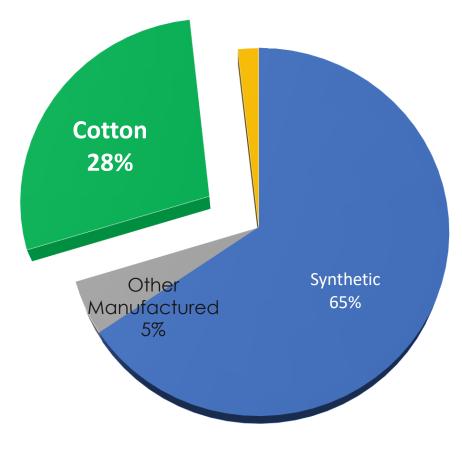
77 countries grow cotton 75% of world production from 5 countries India China U.S. Pakistan Brazil





Cotton meets 28% of the world's textile needs from 3% of the agricultural land





Worldwide Demand for Fibers



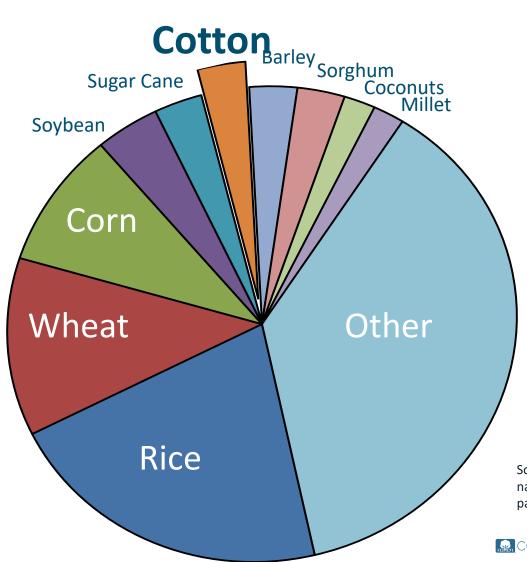
Land use: FAO, 2013; Fiber Use: Horn and Snowman, 2013

Cottonworks





Cotton's Global Water Use



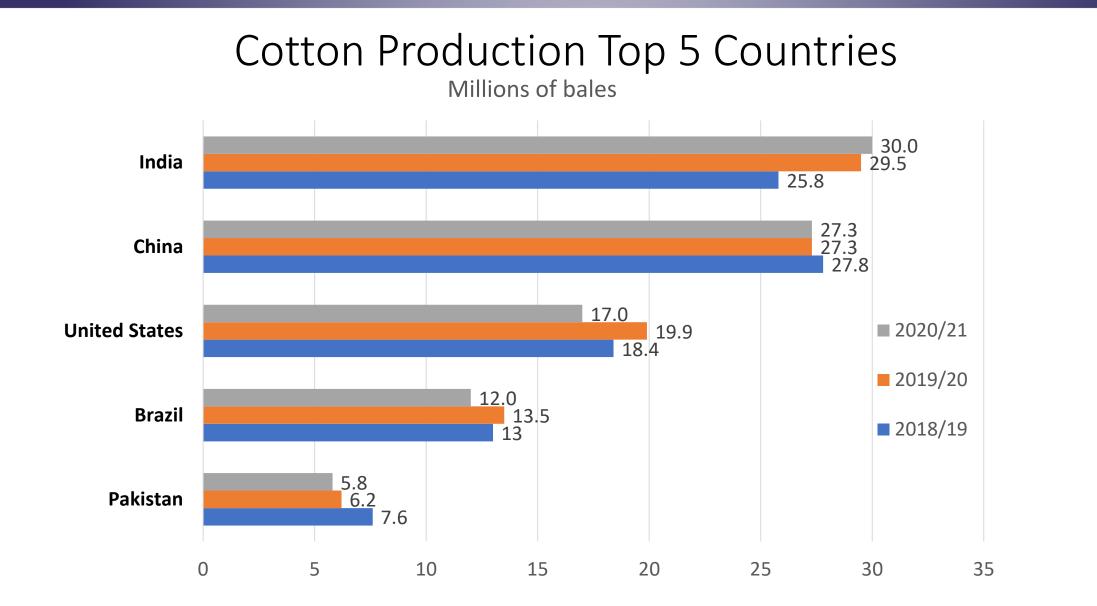
Cotton production uses

3% of the world's agricultural water

Source: Hoekstra, A. Y. & Chapagain, A. K. (2007). Water footprints of nations: water use by people as a function of their consumption pattern. *Water Resource Management*, (21)1, 35–48.

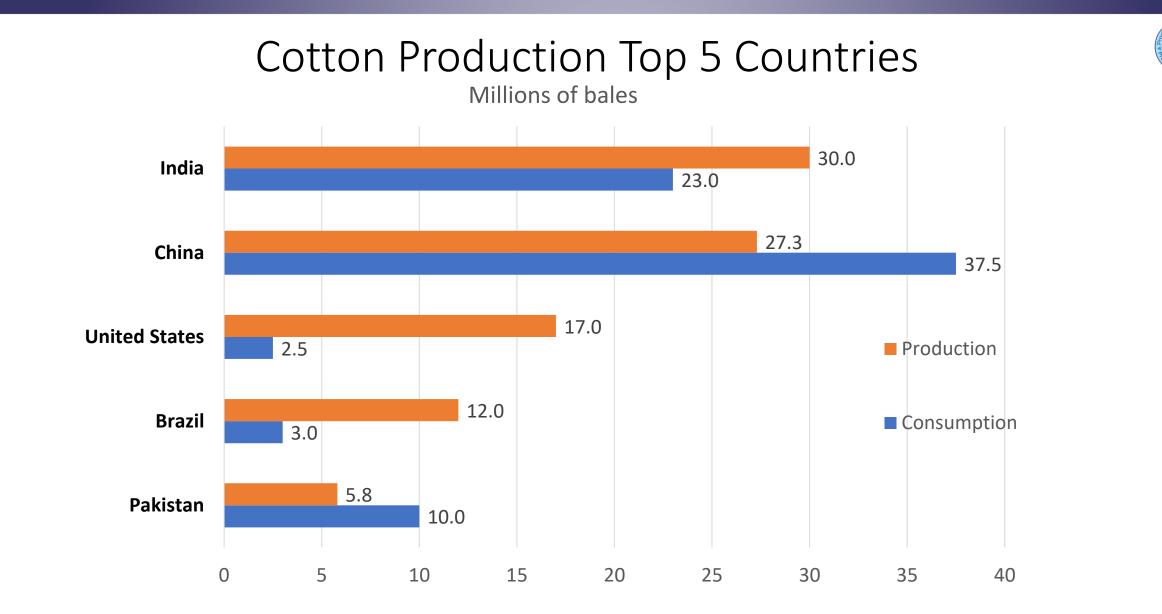
🔝 cottonworks







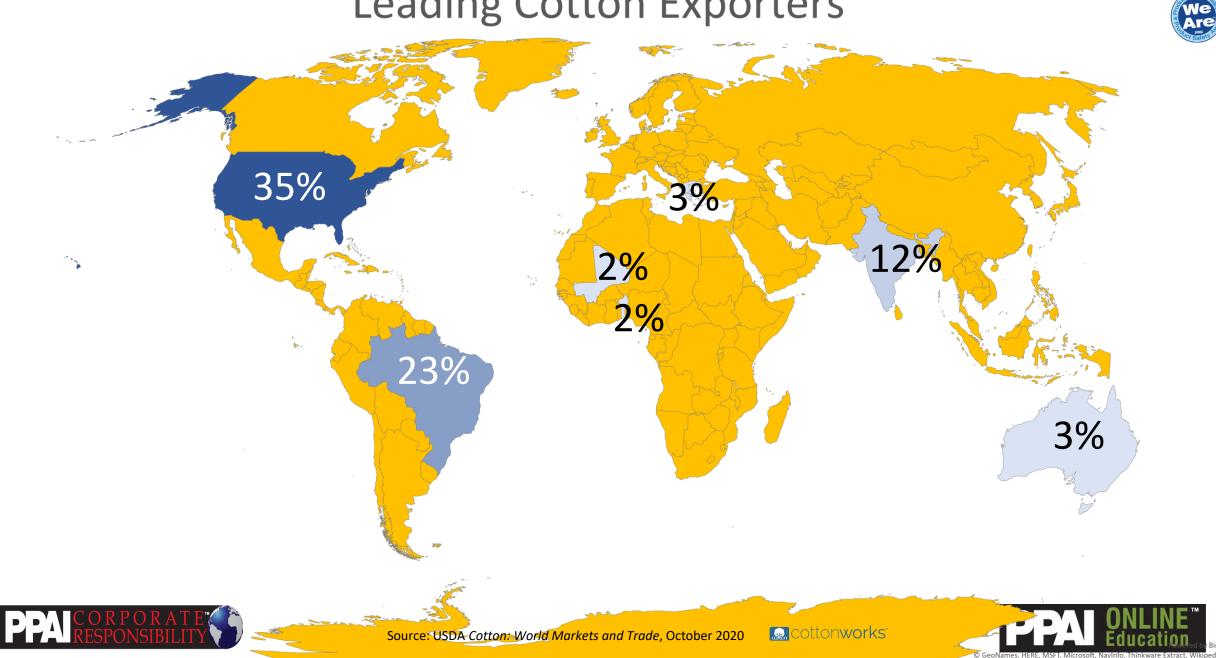






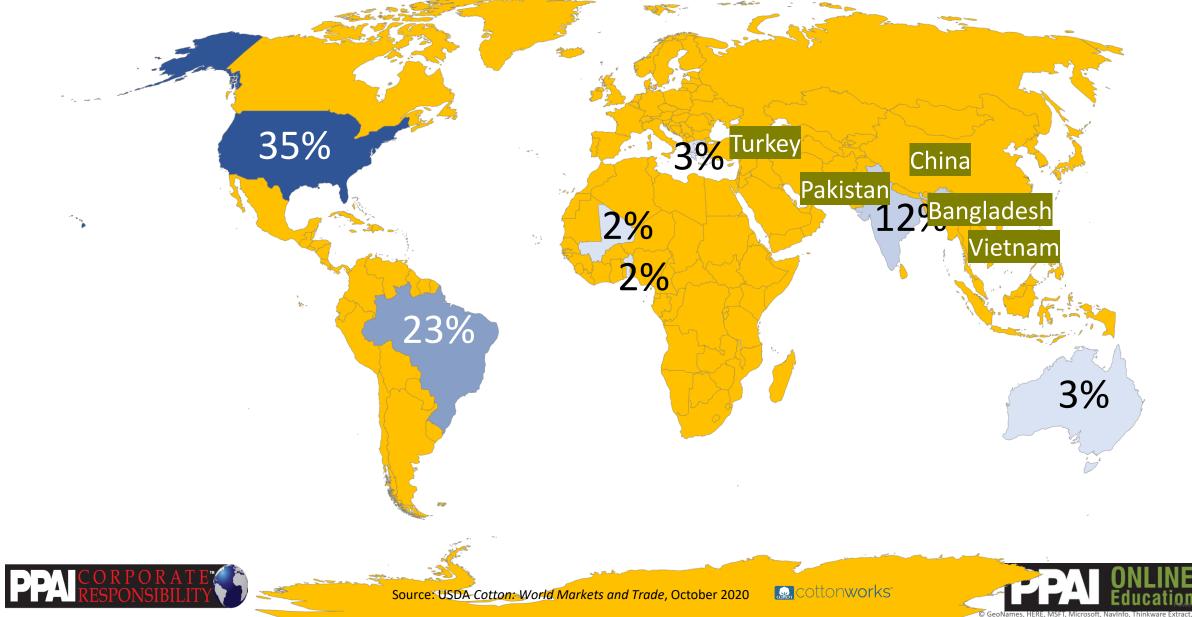


Leading Cotton Exporters

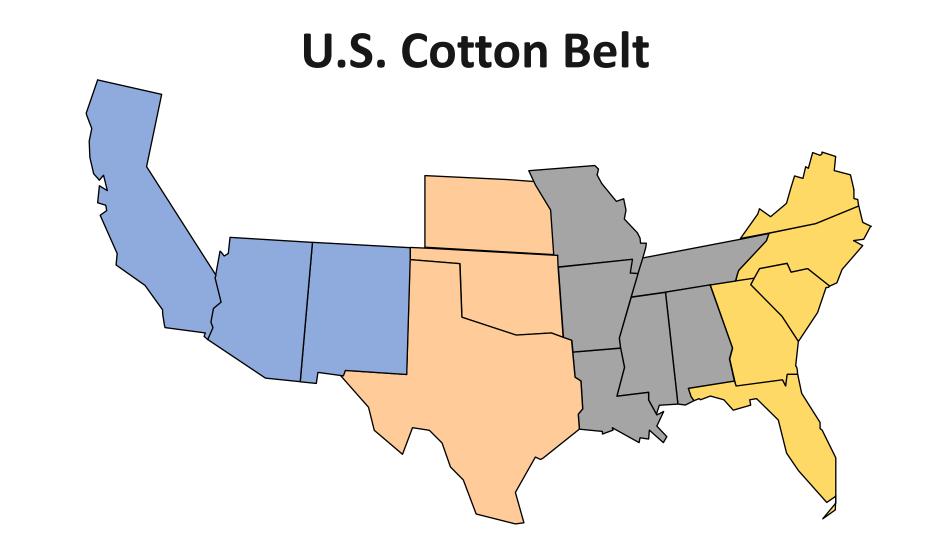


Leading Cotton Exporters











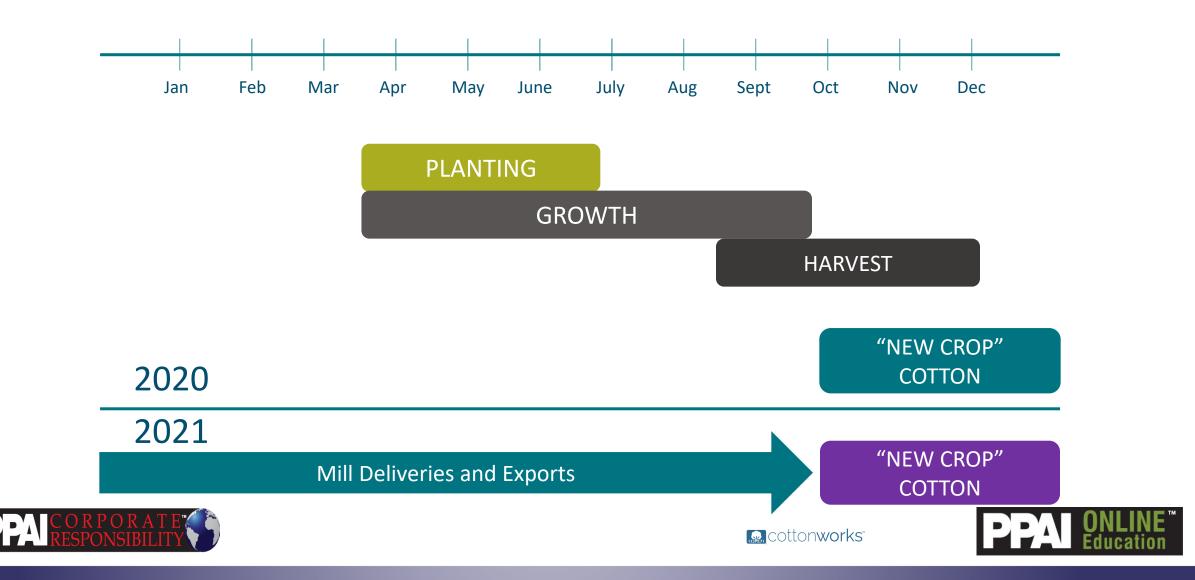




The Cotton Calendar and Production Process



Northern Hemisphere (approximately 90% of world production)



The Cotton Calendar and Production Process



Northern Hemisphere (approximately 90% of world production)















• Need good soil moisture and warmer temperatures





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The Cotton Calendar and Production Process



Northern Hemisphere (approximately 90% of world production)



PLANTING			
GROWTH			















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We Are





Cottonworks











The Cotton Calendar and Production Process



Northern Hemisphere (approximately 90% of world production)















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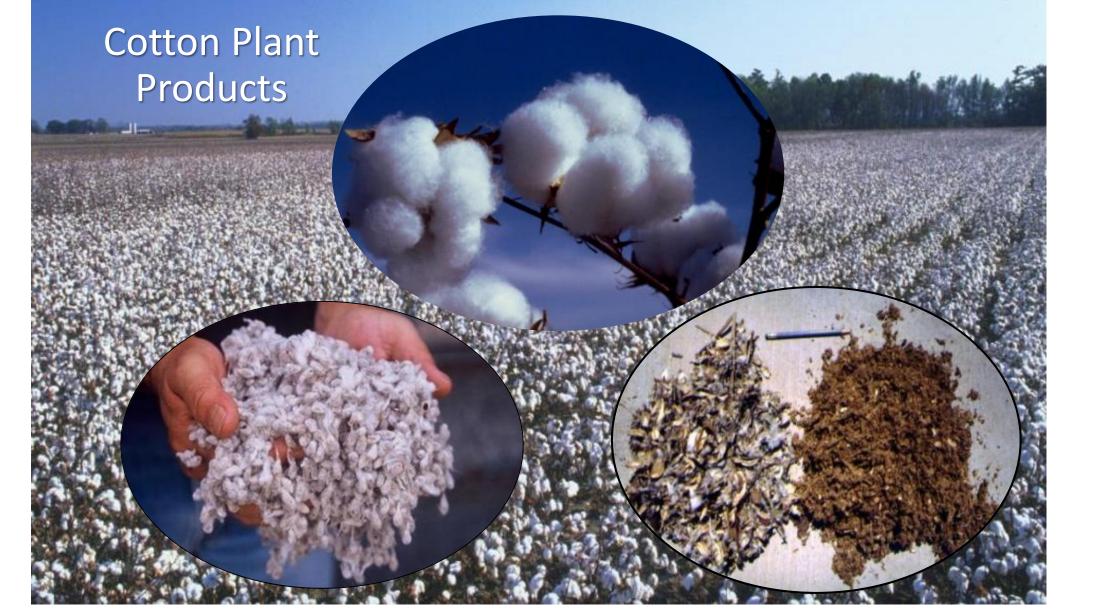


















We Are











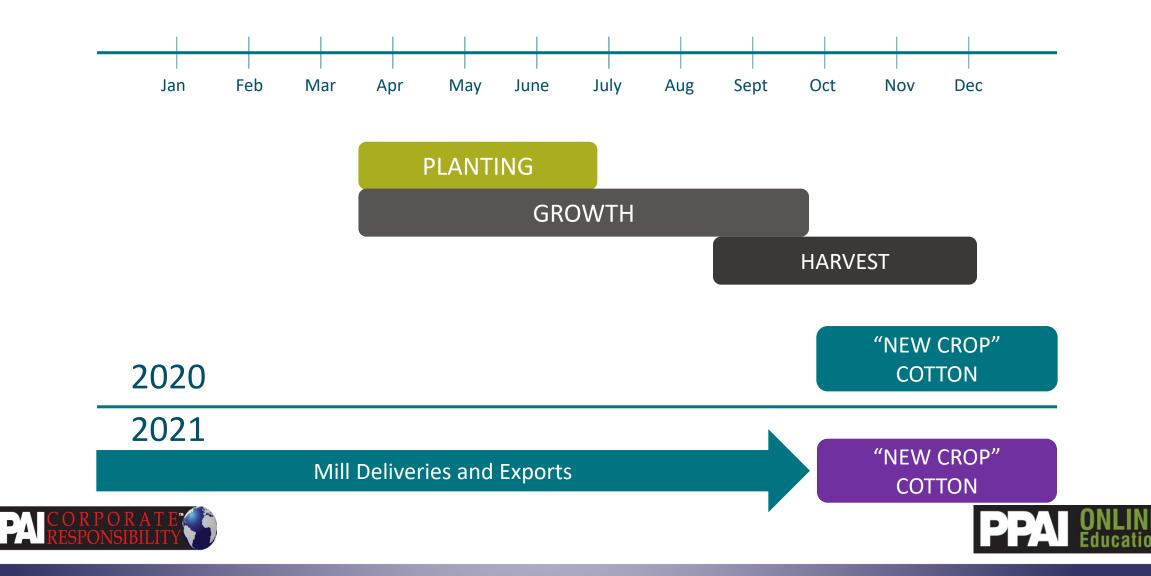




The Cotton Calendar and Production Process



Northern Hemisphere (approximately 90% of world production)





Cotton Production Methods





Cottonworks"



Cotton Production Methods

There are three basic production systems for growing cotton: biotech (GM), conventional, and organic.









ORIGINAL MOUNTAIN PANT »> NOW 100% ORGANIC +*

WHY ORGANIC COTTON? CERTIFIED ORGANIC COTTON MEANS NO GMOS, FERTILIZERS, TOXINS, CHEMICALS OR AERIAL SPRAYING, THEREFORE REDUCING THE IMPACT ON OUR ENVIRONMENT.







We Are











Cottonworks



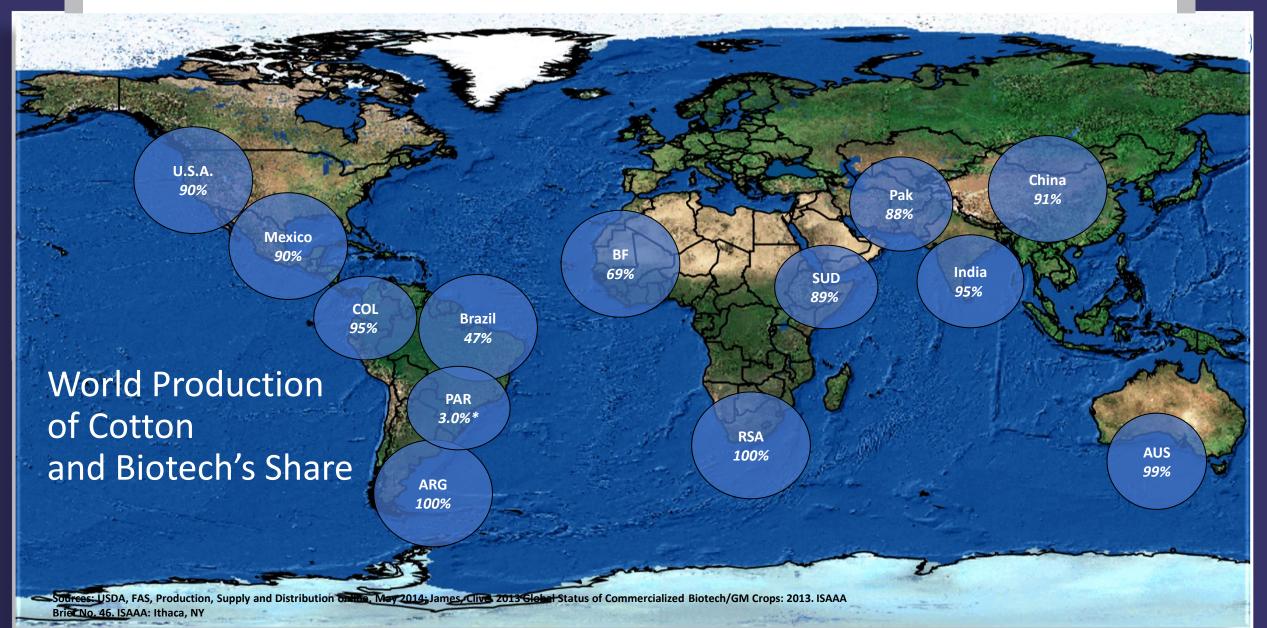
Cotton Production Methods

Most of the world's production uses biotech seed varieties.











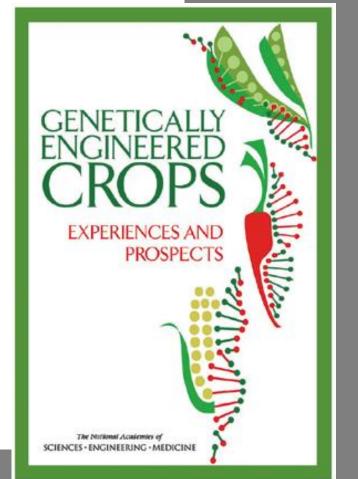






Genetically Engineered Crops: Experiences and Prospects

- No substantiated evidence of a difference in risks to human health between currently commercialized GE crops and conventionally bred crops.
- No conclusive cause-and-effect evidence of environmental problems from the GE crops.











Cotton Production Methods

Organic production is a <u>method of growing</u> cotton, not a different cotton.









Home > Topics > Raw Materials

NOVEMBER 2, 2020 6:00AM ET

GOTS Detects Evidence of Organic Cotton Fraud in India

By Arthur Friedman in f



Kitchen and bed textile made from organic cotton bolls.

CREDIT: Adobe





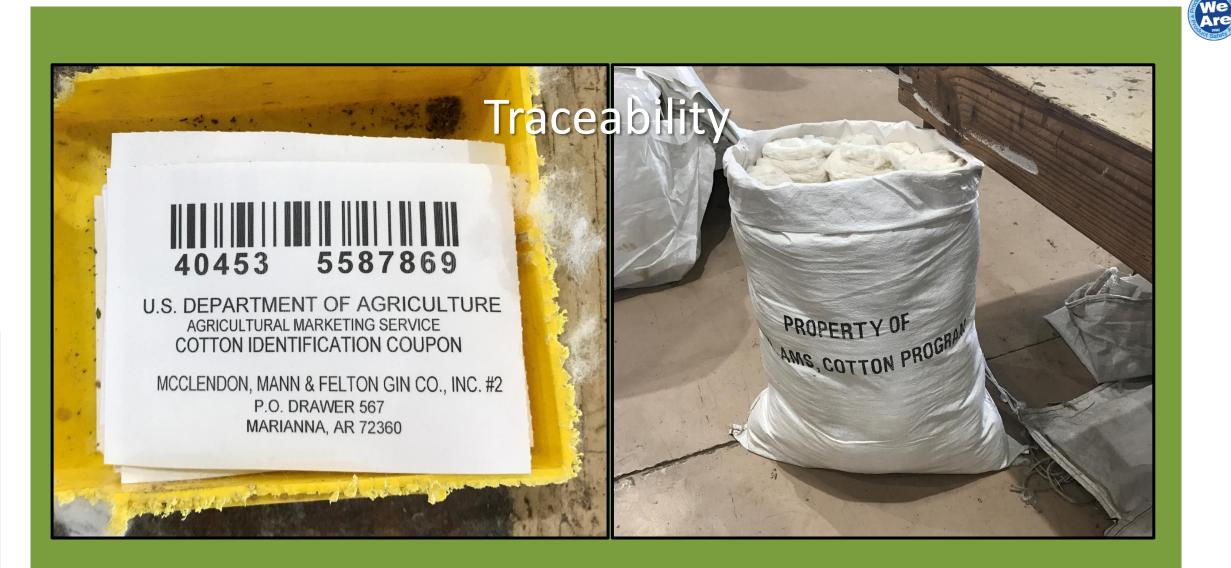






















Traceability













Traceability

Every bale of U.S. cotton has a permanent bale identification tag.

Textile mills anywhere in the world can purchase a uniquely identified bale with complete fiber quality information.







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Textile mills don't just buy tons or bales of cotton; they buy cotton based on fiber qualities.

Traceability









BloombergMarkets

Target Severs Ties

Target Severs Ties With Welspun Over Egyptian-Cotton Dispute

Target Severs Ties With Welspun Over Egyptian-Cotton Dispute

by Shannon Pettypiece

August 19, 2016, 10:30 AM EDT Updated on August 19, 2016, 11:22 AM EDT

- → Retailer says supplier's sheets used inferior material
- → Discount-store chain will offer customers refunds on purchases

Target Corp. is ending all business with Welspun India Ltd., one of the world's big textile manufacturers, after saying the supplier was sending it phony Egyptian cosheets.



The retailer said it discovered last month that 750,000 s and pillowcases labeled as Egyptian cotton were actual with another type of cotton. The retailer pulled the items from

Traceability

SEPTEMBER 10, 2016

BUSINESS

WALMART JOINS TARGET IN PULLING WELSPUN'S EGYPTIAN SHEETS FROM SHELVES

TRISHA FAULKNER







Environment Common ground

How your clothes are poisoning our oceans and food supply

New studies show that alarming numbers of tiny fibers from synthetic fabrics are making their way from your washing machine into aquatic animals



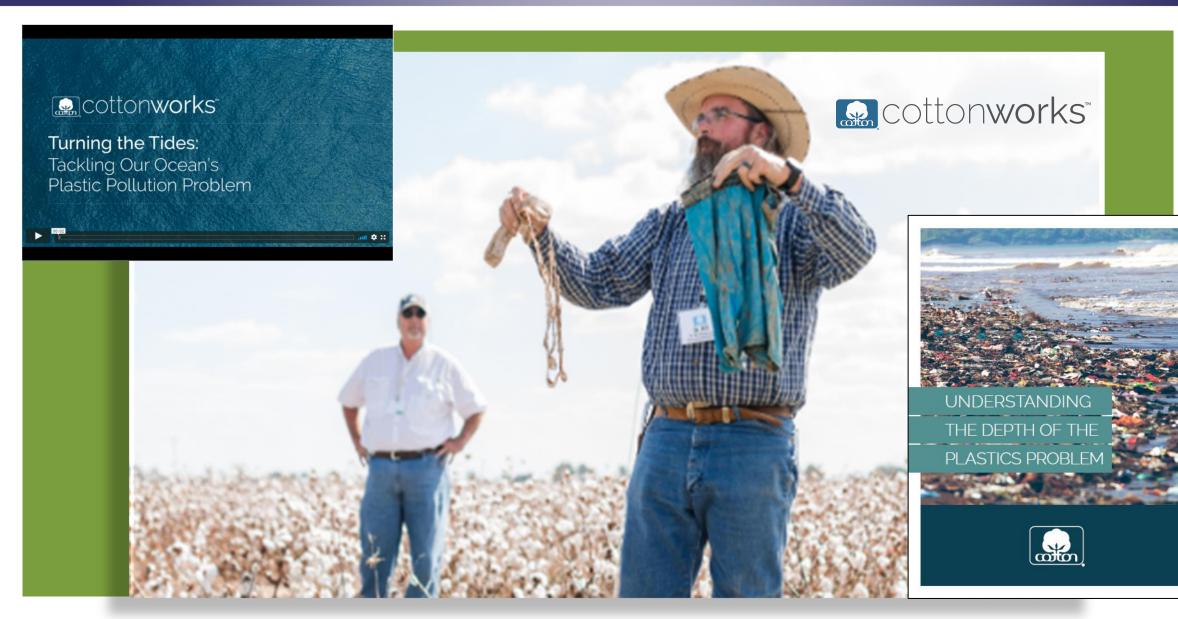




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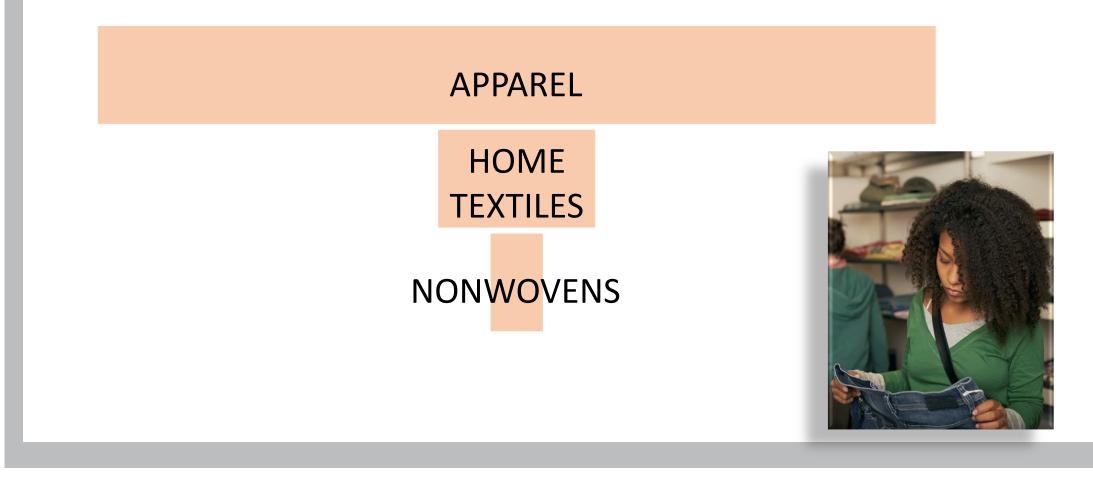




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End Uses for Cotton Fiber



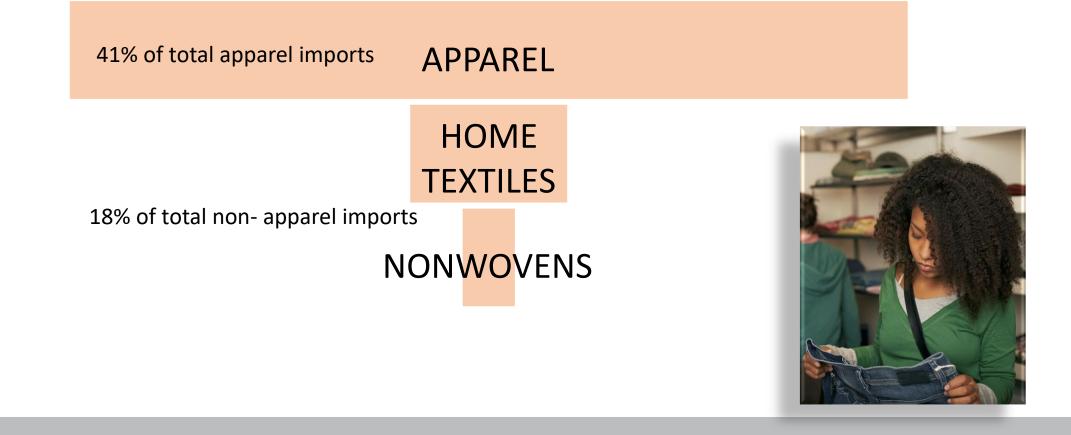








End Uses for Cotton Fiber





Source: OTEXA, Major Shippers Report, SME basis, 2019











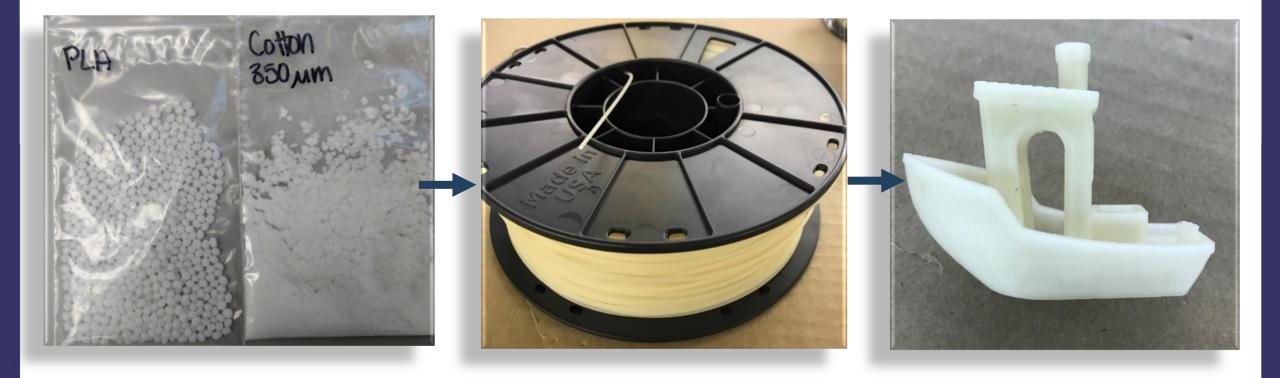




New Products For Cotton



3D Printing and Injection Molding





Source: Cotton Incorporated

Cottonworks





Travel mugs containing 7% and 2.5% cotton – goal is 30%

Toothbrush handles. White (3rd from left consists of 30% cotton flock material with PLA)





Sunglass frames



Source: Cotton Incorporated





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