

U.S. COTTON SUSTAINABILITY & THE U.S. COTTON TRUST PROTOCOL

2019



COTTON USA™
THE COTTON THE WORLD TRUSTS

AGENDA

- **Introduction**
- **COTTON USA Objectives**
- **U.S. Cotton's Sustainability**
- **U.S. Cotton Trust Protocol**
- **My Family Farm**
- **Summary**



A photograph of three people standing in a field of low-lying plants, possibly cotton, under a blue sky. The image is overlaid with a solid blue color. The text 'INTRODUCTION & OBJECTIVES' is centered in white, bold, sans-serif capital letters.

INTRODUCTION & OBJECTIVES

INTRODUCTION

- 18,000 family cotton growers in the U.S
- We are excited about showing our customers how we grow cotton in the U.S. to meet your corporate goals!



COTTON USA OBJECTIVES

- World leader for sustainable cotton
- Supplier of choice for responsibly produced cotton



A blue-tinted photograph of three people standing in a cotton field, viewed from behind. The person in the center is wearing a plaid shirt and a cap, and is reaching out towards the person on the left. The person on the right is wearing a dark jacket and a cap. The field is filled with cotton plants, and the sky is a clear blue.

U.S. COTTON'S SUSTAINABILITY

SUSTAINABILITY DEFINITION

- **The ability to meet the needs of the present without compromising the ability of future generations to meet their own needs.**

Source: Gro Harlem Brundtland, Chairperson of the World Commission on Environment and Development.



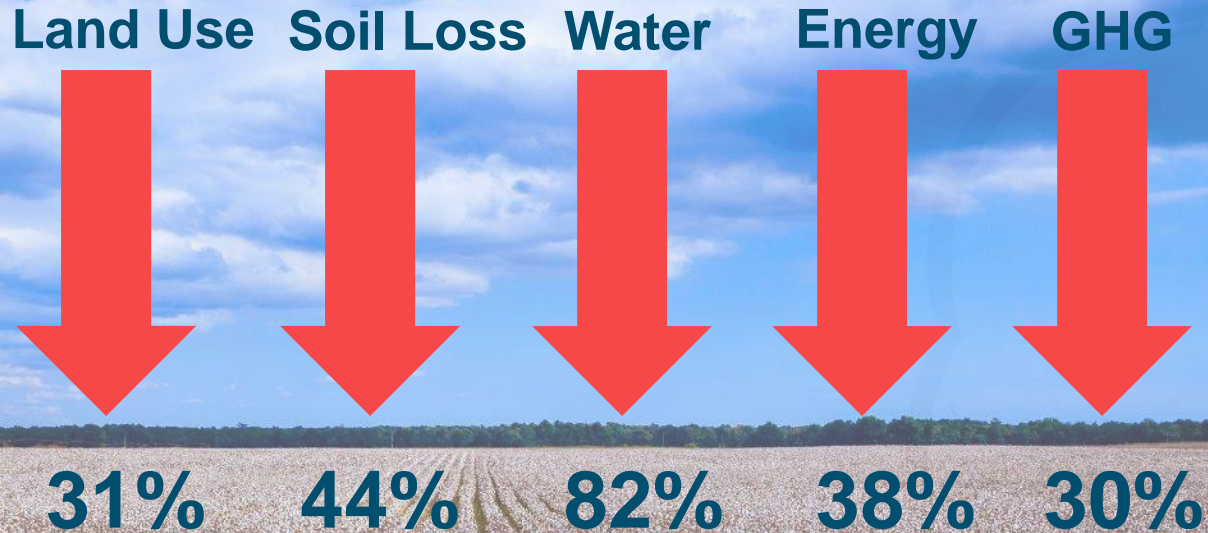
WHERE WE ARE TODAY

The U.S. produces the most sustainable cotton of any country in the world through:

1. Family Farms
2. Precision Agriculture
3. Regulations
4. Monitoring
5. Quantifiable Goals



35 YEARS OF REDUCED ENVIRONMENTAL IMPACT



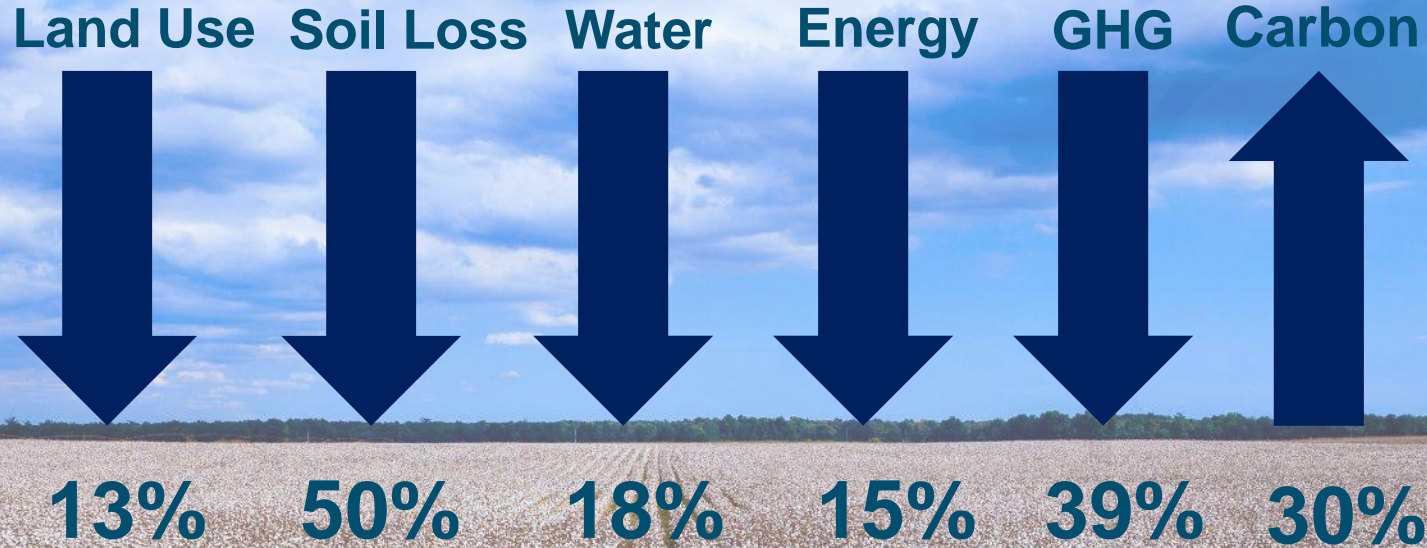
Source: Field to Market 2016 Environmental and Socioeconomic Indicators Report. Available at: www.fieldtomarket.org.



WHAT'S NEXT?

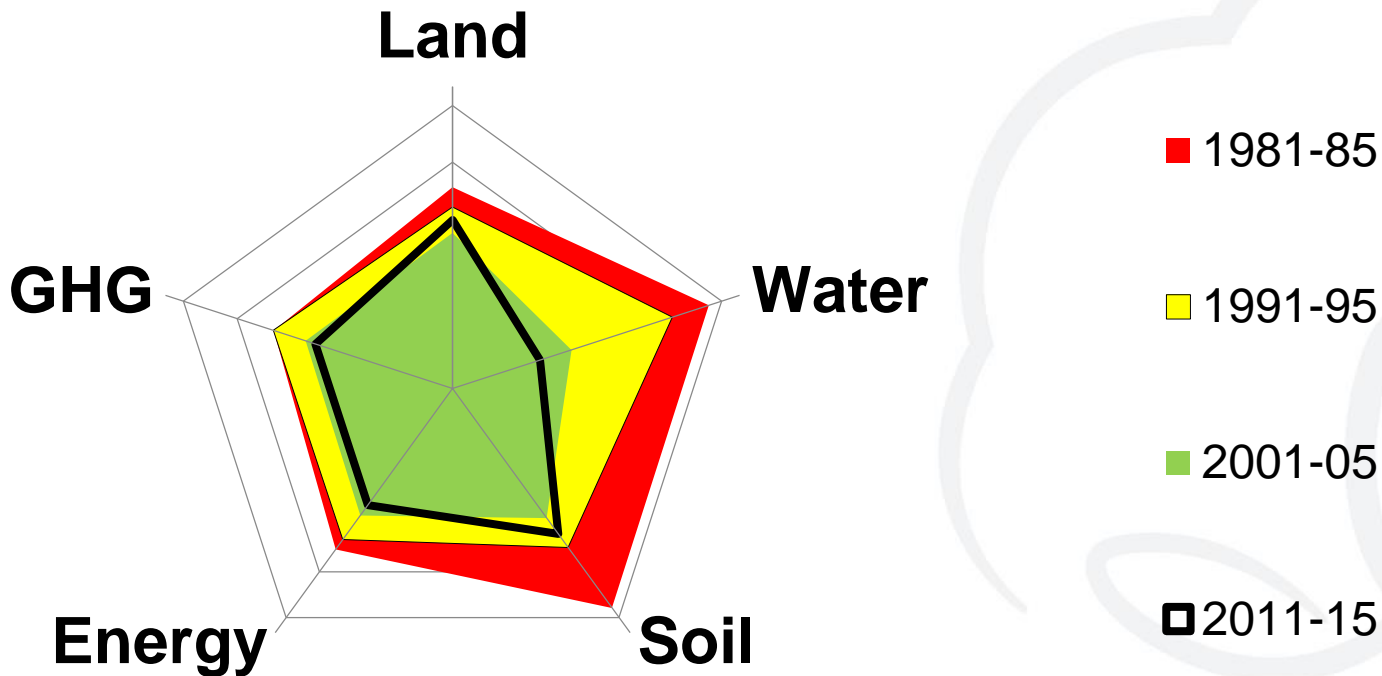
COTTON USA SUSTAINABILITY TASK FORCE SETS NATIONAL GOALS

2025 GOAL –ADDITIONAL IMPACTS

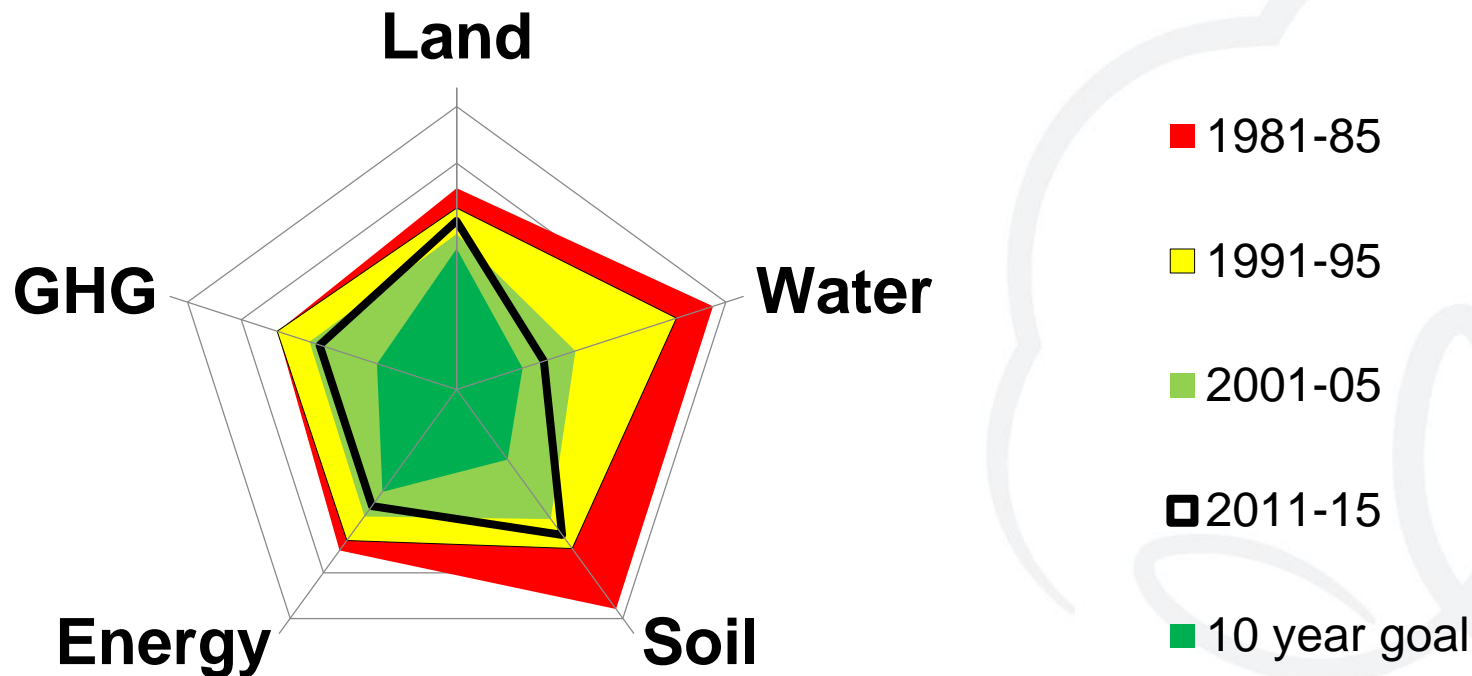


U.S. COTTON NATIONAL GOALS FOR CONTINUED IMPROVEMENT

ACHIEVING 10-YEAR GOALS WOULD DEMONSTRATE IMPROVEMENT IN KEY METRICS



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HOW WILL U.S. COTTON ACHIEVE THESE GOALS?

- **New technologies**
- **Producer-funded research**
- **A continuous improvement program through the
U.S. Cotton Trust Protocol[®]**

A blue-tinted photograph of three people standing in a cotton field. The person in the center is wearing a plaid shirt and overalls, pointing towards the left. The person on the left is wearing a plaid shirt and a hat. The person on the right is wearing a plaid shirt and a hat. They are standing in the middle of a field of cotton plants. The text "THE U.S. COTTON TRUST PROTOCOL" is overlaid in white, bold, sans-serif font.

THE U.S. COTTON TRUST PROTOCOL



U.S. COTTON
TRUST PROTOCOL

SUSTAINABILITY



U.S. COTTON TRUST PROTOCOL SUSTAINABILITY

- Voluntary
- Supports 10-year goals
- Phase one in 2019 crop
- Implementation in 2020 crop



U.S. COTTON TRUST PROTOCOL SUSTAINABILITY

KEY PRINCIPLES:

Standards

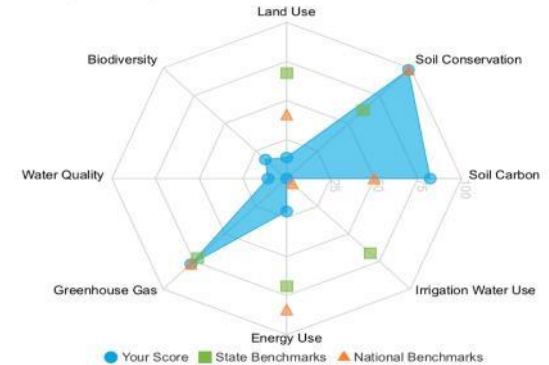
Measurement

Verification

Data provided to the supply chain

REQUIREMENTS FOR GROWERS

- Checklist of practices
- FieldPrint data tool
- Continuous improvement plan



CHECKLIST

BEST MANAGEMENT PRACTICES

(9 CATEGORIES -120 QUESTIONS)

- 1) Soil Health
- 2) Plant Nutrition
- 3) Water
- 4) Plant Protection
- 5) Harvest
- 6) Biodiversity & Wildlife
- 7) Fiber Quality & Traceability
- 8) Farm Worker Fairness
- 9) Healthy Farmstead

PROTOCOL SOIL HEALTH REQUIREMENTS

- Assure farm meets strict “Conservation Compliance” provisions of the U.S. Farm Law

SAMPLE RECOMMENDATIONS:

- Utilize conservation tillage
- Prevent compaction
- Use vegetation to minimize plant damage from erosion
- Windbreaks
- Plant cover crops to increase soil microbiome



PROTOCOL FIBER QUALITY AND TRACEABILITY REQUIREMENTS

- Permanent Bale Identification
- USDA Classification



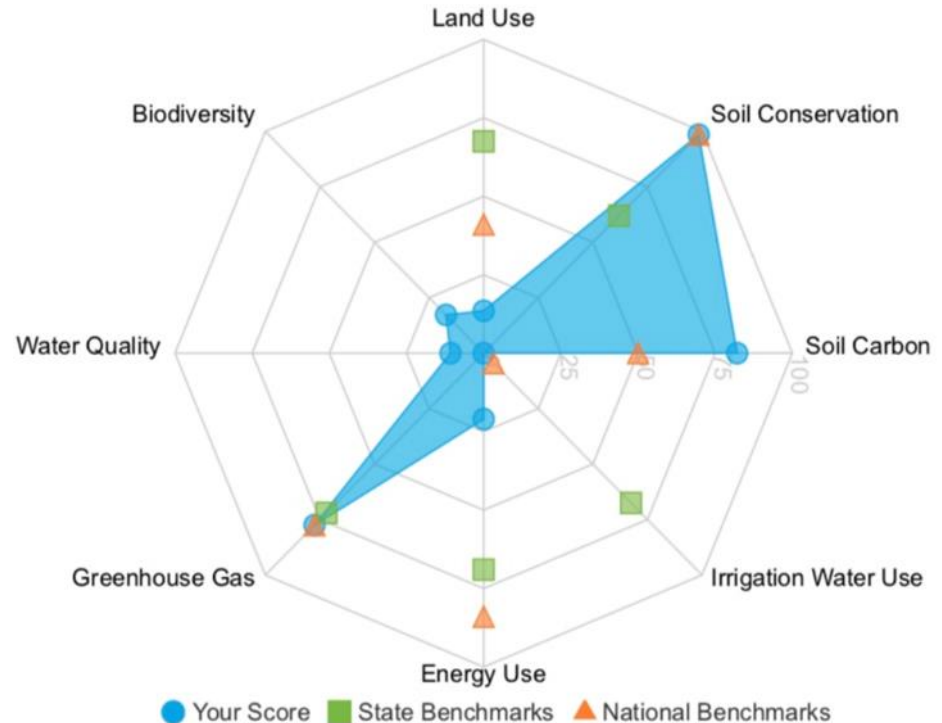
PROTOCOL FARM WORKER FAIRNESS REQUIREMENTS

- Fair wages
- Fair treatment
- Safe working environment
- No forced labor
- Training



PROTOCOL MEASUREMENT REQUIREMENT

- Annual quantitative measurement sustainability metrics



VERIFICATION

- Second party assurance
- Third party on-farm visit





U.S. COTTON TRUST PROTOCOL SUSTAINABILITY

- PBI Bales or mass balance
- National database
- Private farmer data
- Track to goals

BEST MANAGEMENT PRACTICES HELP ACHIEVE INDUSTRY GOALS

			Industry's 10-Year Goals For Environmental Metrics					
			Reduce Land Use by 13%	Increase Irrigation Efficiency by 18%	Reduce GHG by 39%	Reduce Energy Use by 15%	Reduce Soil Loss by 50%	Increase Soil Carbon by 30%
Best Management Practices	Environmental	Soil Health	✓	✓	✓	✓	✓	✓
		Nutrient Management	✓		✓	✓		
		Water Management	✓	✓	✓	✓		
		Crop Protection	✓		✓	✓		
		Harvest Preparation			✓		✓	✓
		Wildlife/Biodiversity			✓			
	Social	Worker Relations	Provide a safe work place for all employees, assure fair treatment and compensation.					
		Farm Management	Maintain household and farmstead operations which assure safety for family, workers, farm animals and the environment.					
		Fiber Quality/Traceability	Work to assure fiber quality is maximized by selecting appropriate varieties, managing for fiber quality consistent with yield goals and preserving quality during harvest and ginning.					

ENVIRONMENTAL CONCERN

MICROFIBERS

Unintended Consequences of Laundering

- Every load of wash releases microfibers into the wastewater
- Some microfibers are filtered out at a waste water treatment plant
- Many microfibers continue on through rivers and streams to the oceans



MICROFIBERS IN THE NEWS

Google search results for "microplastics in the ocean".

microplastics in the ocean

All Images **News** Videos Shopping More Settings Tools

About 32,000 results (0.19 seconds)

This 12-Year-Old Girl Built a Robot That Can Find Microplastics In the ...
Smithsonian - Oct 23, 2018
The apparatus doesn't actually collect the **microplastics**, but it does ... Du first read about the challenge of locating **ocean microplastics** that, ...

Ministry to urge firms to cut use of microplastics amid marine pollution ...
The Japan Times - 7 hours ago
"It's almost impossible to retrieve **microplastics** from the **ocean**," one of the experts noted. The draft also called on fishermen to ensure they do ...
Gov't to urge companies to curb use of **microplastics**
Japan Today - 2 hours ago
[View all](#)

Volvo Ocean Race provides global microplastic map
What'sUpNewsp - 5 hours ago
Photo: Leg 11, from Gothenburg to The Hague, start day, 21 June, 2018. Ainhoa Sanchez/Volvo Ocean Race. Only three of the 75 samples ...

Yuck! There's a 90 percent chance your tasty sea salt contains plastic ...
USA TODAY - Oct 17, 2018
That **sea** salt you sprinkle on your gourmet meat or dessert might contain a not-so-desirable additive – **microplastic**. That's according to a new ...
Your fancy **sea** salt may include a dose of **microplastics**
CBS News - Oct 17, 2018



ETHICAL SUSTAINABILITY

- We are supporters of the **Partnership for Sustainable Textiles**.
- We encourage our customers to join us to achieve social, ecological and economic improvements alongside the entire textile supply chain.







SUSTAINABLE DEVELOPMENT GOALS



A blue-tinted photograph of three people, likely a family, standing in a field of cotton plants. The person in the center is wearing a plaid shirt and overalls, and is pointing towards the left. The person on the left is wearing a plaid shirt and a hat. The person on the right is wearing a plaid shirt and a hat. The text "MY FAMILY FARM" is overlaid in white, bold, sans-serif capital letters across the middle of the image.

MY FAMILY FARM















A blue-tinted photograph of three people standing in a field of low-lying plants, possibly cotton. The person in the center is wearing a plaid shirt and overalls, with their arm around the person on the left. The person on the right is wearing a dark jacket and a cap. The word "SUMMARY" is overlaid in white capital letters in the center of the image.

SUMMARY

SUMMARY

- U.S. cotton is committed.
- Thank you for using U.S. cotton!

THANK YOU!

COTTON USA

Gin Code 28113 Gin Bale 3442792
3442792
Planters Gin Co. of St. Joseph, Inc., St. Joseph, La.
***** DO NOT REMOVE *****
USA Permanent Bale Id.
Gin Code 28113 Gin Bale 3442792
3442792
Planters Gin Co. of St. Joseph, Inc., St. Joseph, La.
WAREHOUSE NO.
417205
WHOLE
BALE NO.
3442792
TENSAS WAREHOUSE, INC., ST. JOSEPH, LA.

The background of the slide is a monochromatic blue image. It depicts a wide, flat field, possibly a crop field, with a series of tracks or furrows running from the bottom center towards the horizon. The horizon is a dark, straight line. Above the horizon is a sky filled with soft, textured clouds. The overall mood is contemplative and open.

QUESTIONS?