

Keshav Kranthi
ICAC Chief Scientist

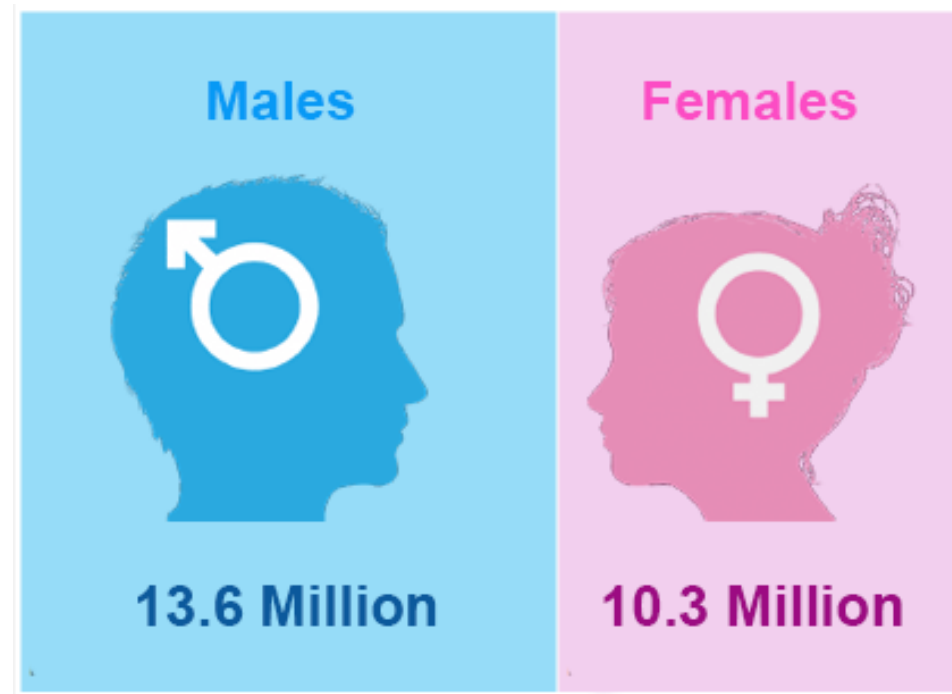
Cotton Sustainability Snippets -2023 Databook



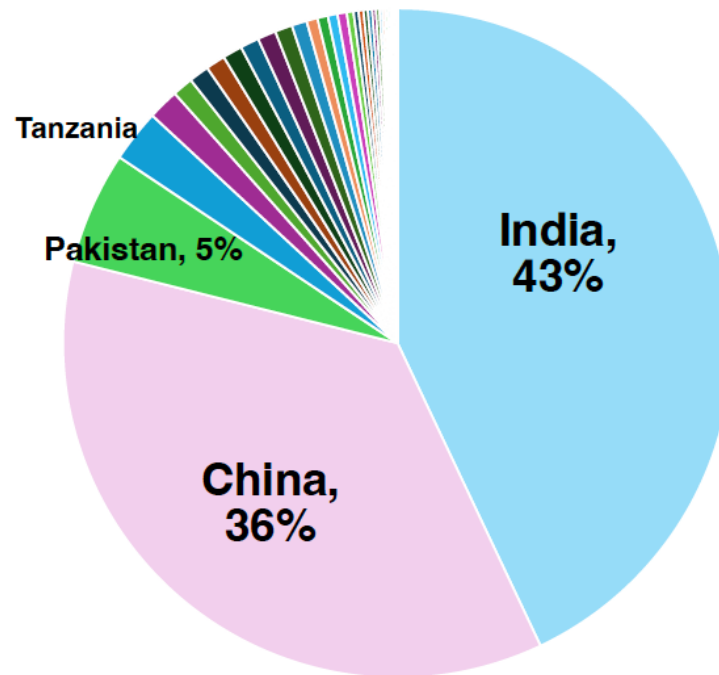
Sept 29 - Oct 3
Tashkent, Uzbekistan



There are 23.9 million cotton farmers in the World



86% of the Cotton Farmers are in Asia And 13% in Africa

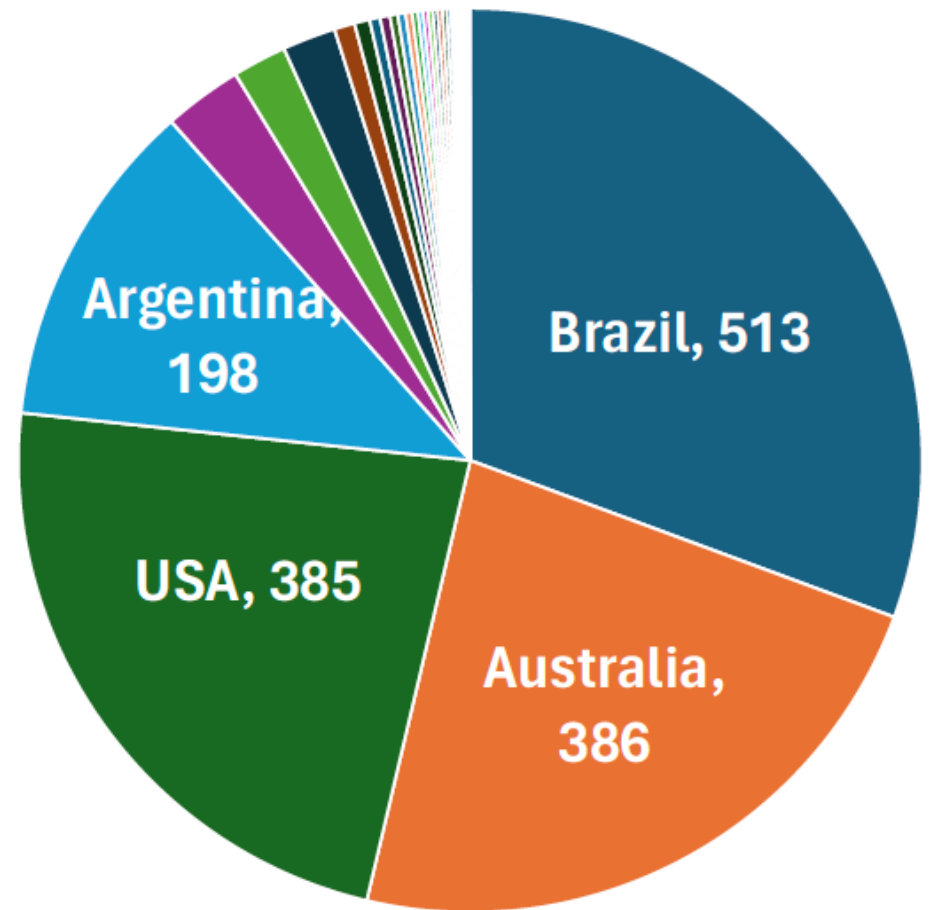


THE 82nd
PLENARY
MEETING
OF THE ICAC

Average Land Holding Size (Ha)

The global average land holding size is 1.33 Ha per farmer

Only Brazil, Australia, USA & Argentina have an average of >100 Ha per farmer





INPUTS & SUSTAINABILITY

Water
Fertilizers
Pesticides



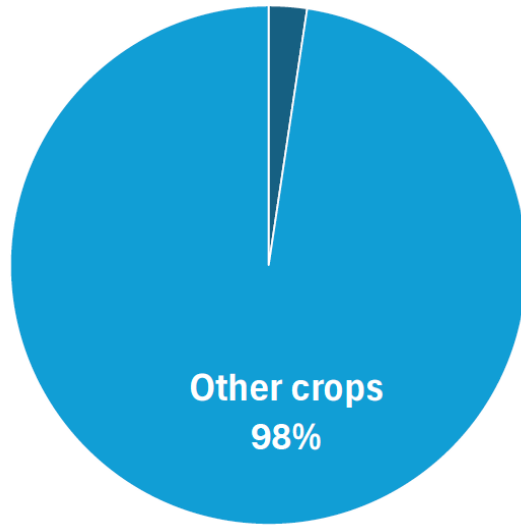
THE 82nd
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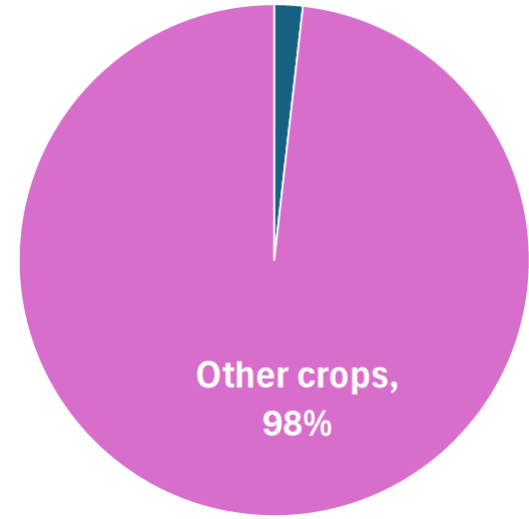
COTTON'S SHARE OF GLOBAL IRRIGATION WATER IS LOW

Global: 2,861 Trillion L
Cotton: 52 Trillion L

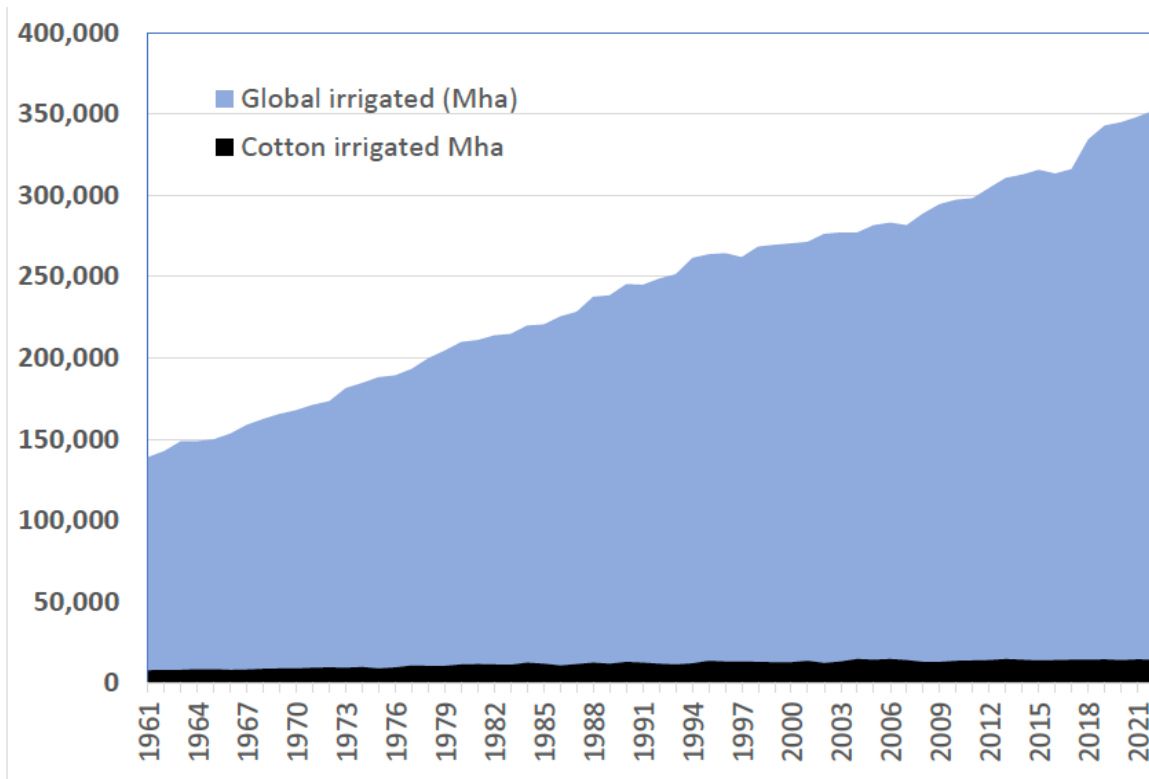
AREA
Cotton, **2.38%**



IRRIGATION WATER
Cotton, **1.8%**



Irrigated cotton occupies 4.0% of the global irrigated area



**Global
Irrigated Area:
350 Million Ha**

**Cotton
Irrigated Area:
14 Million Ha**

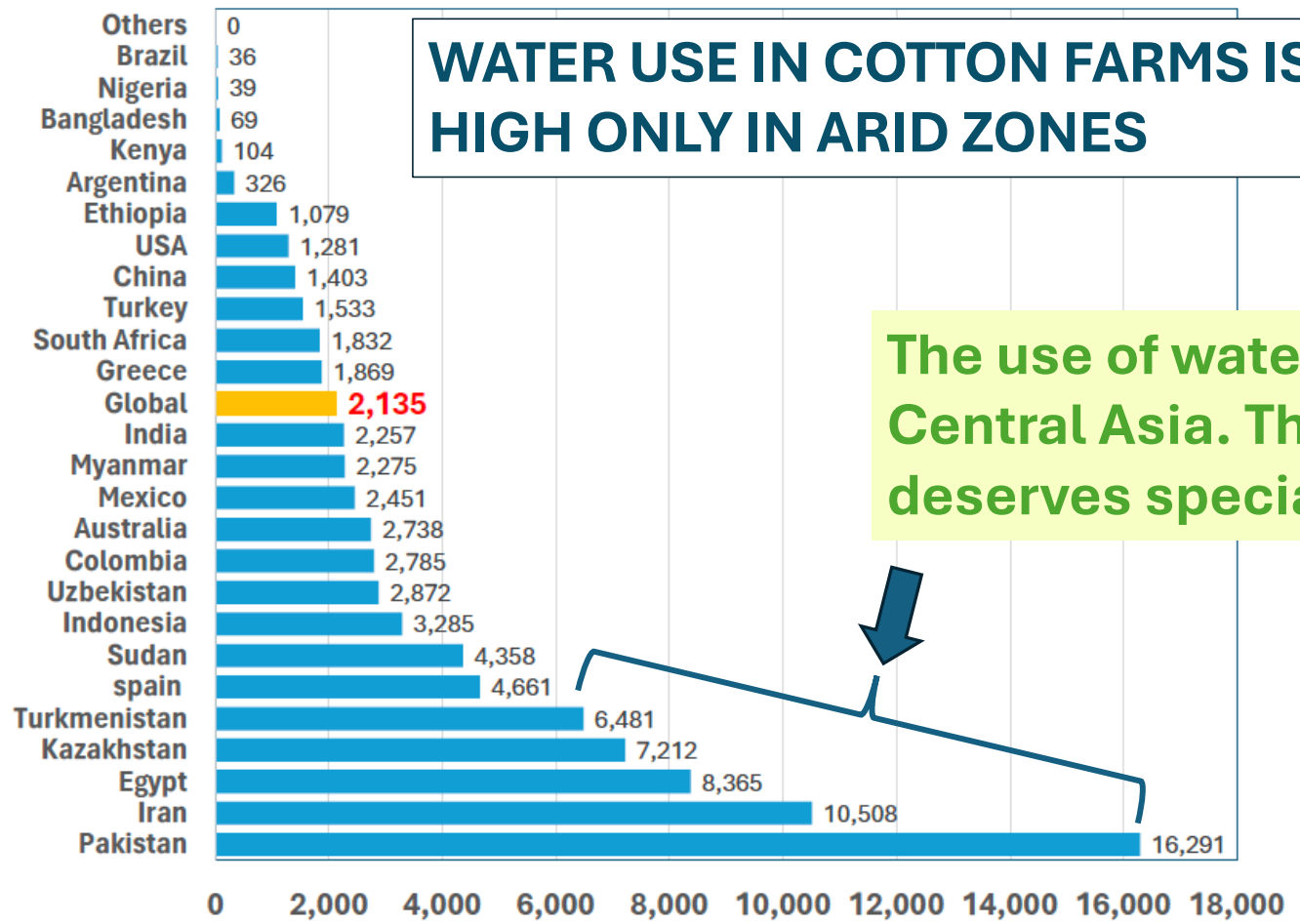
**Source: ICAC Cotton
Databook: 2023**



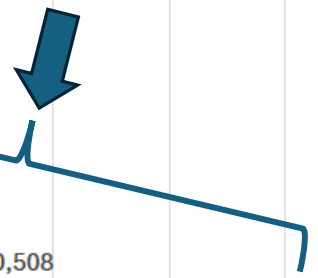


WATER USE IN COTTON FARMS IS HIGH ONLY IN ARID ZONES

2022-23

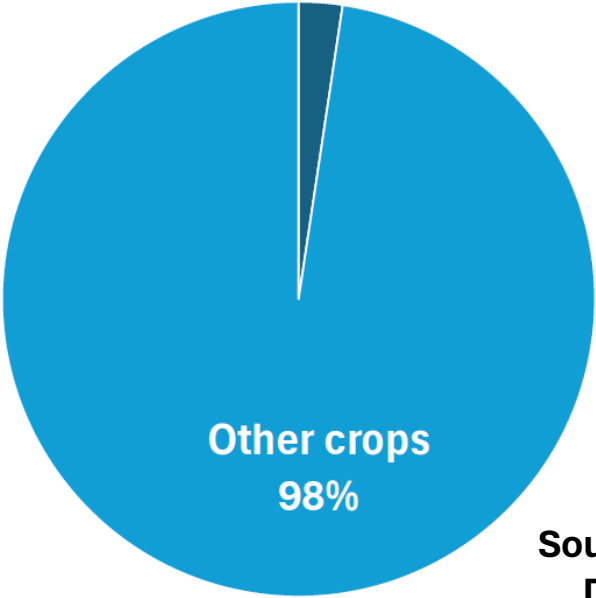


The use of water is high in Central Asia. The concern deserves special attention

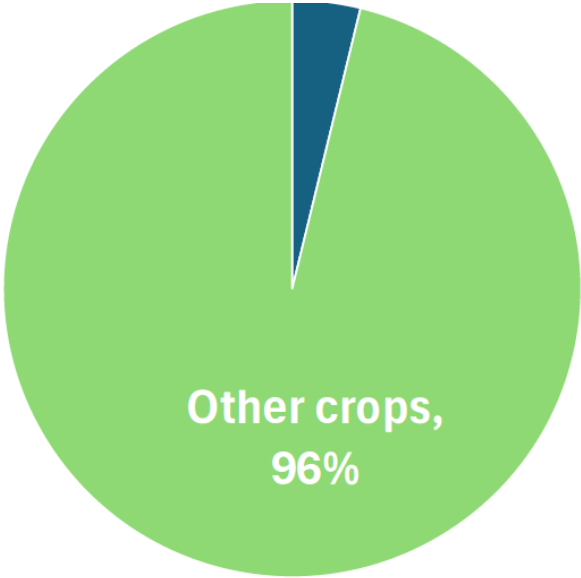


FERTILIZER SHARE IS MODERATE IN COTTON: 2023

AREA
Cotton, 2.38%



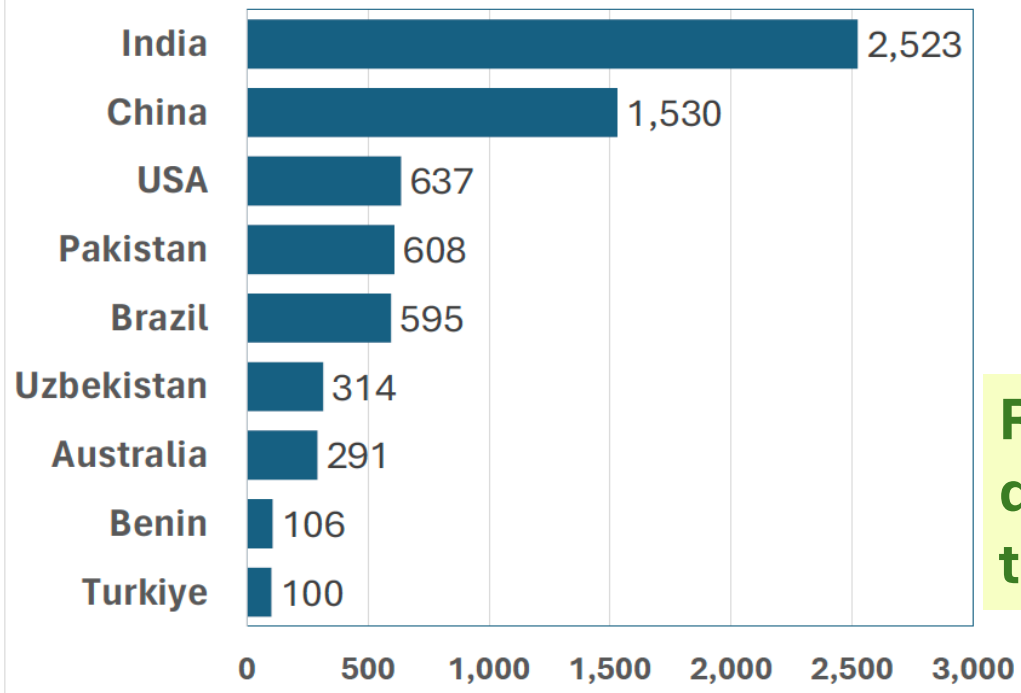
FERTILIZERS
Cotton, 3.8%



Source: ICAC Cotton Databook: 2023



Nine countries consume 94% of NPK fertilizers used in Cotton



Source: ICAC Cotton
Databook: 2023

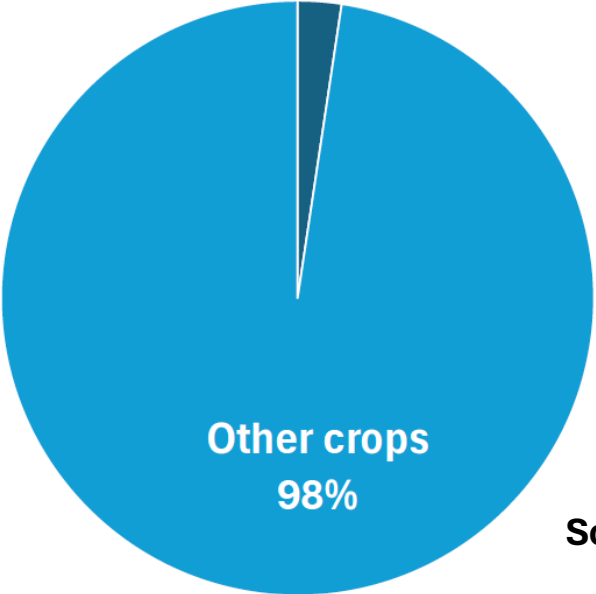
Rejuvenating Soil Health
deserves high priority in
these countries



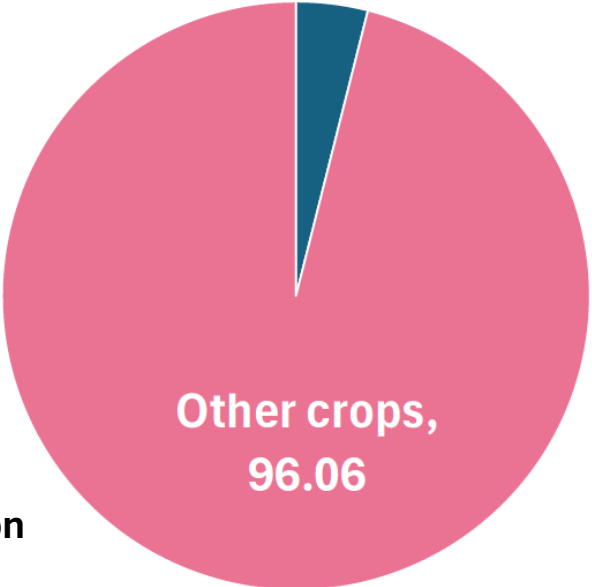


PESTICIDE SHARE IS MODERATE IN COTTON : 2023

AREA
Cotton, 2.38%



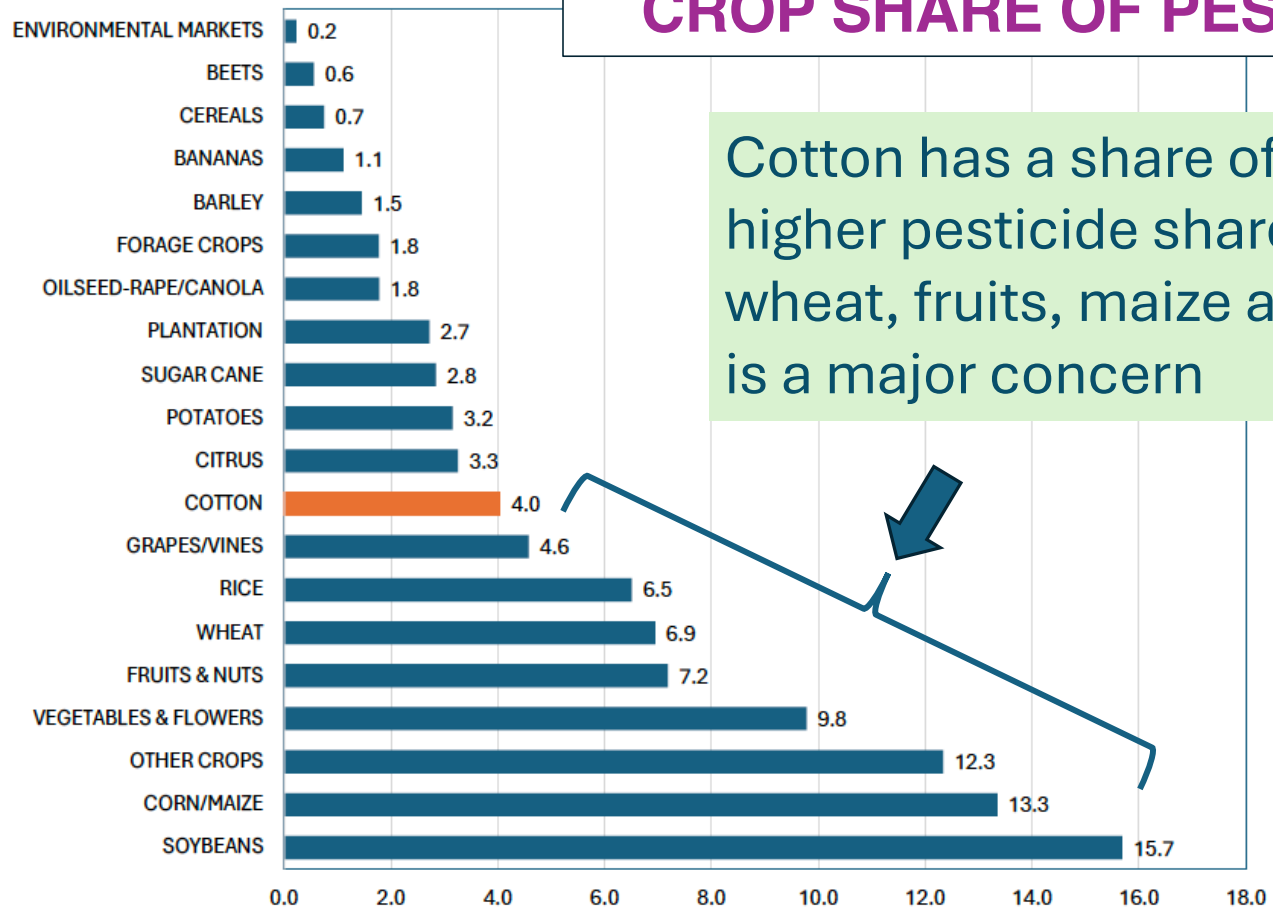
PESTICIDES
Cotton, 3.94%



Source: ICAC Cotton Databook: 2023



CROP SHARE OF PESTICIDES %

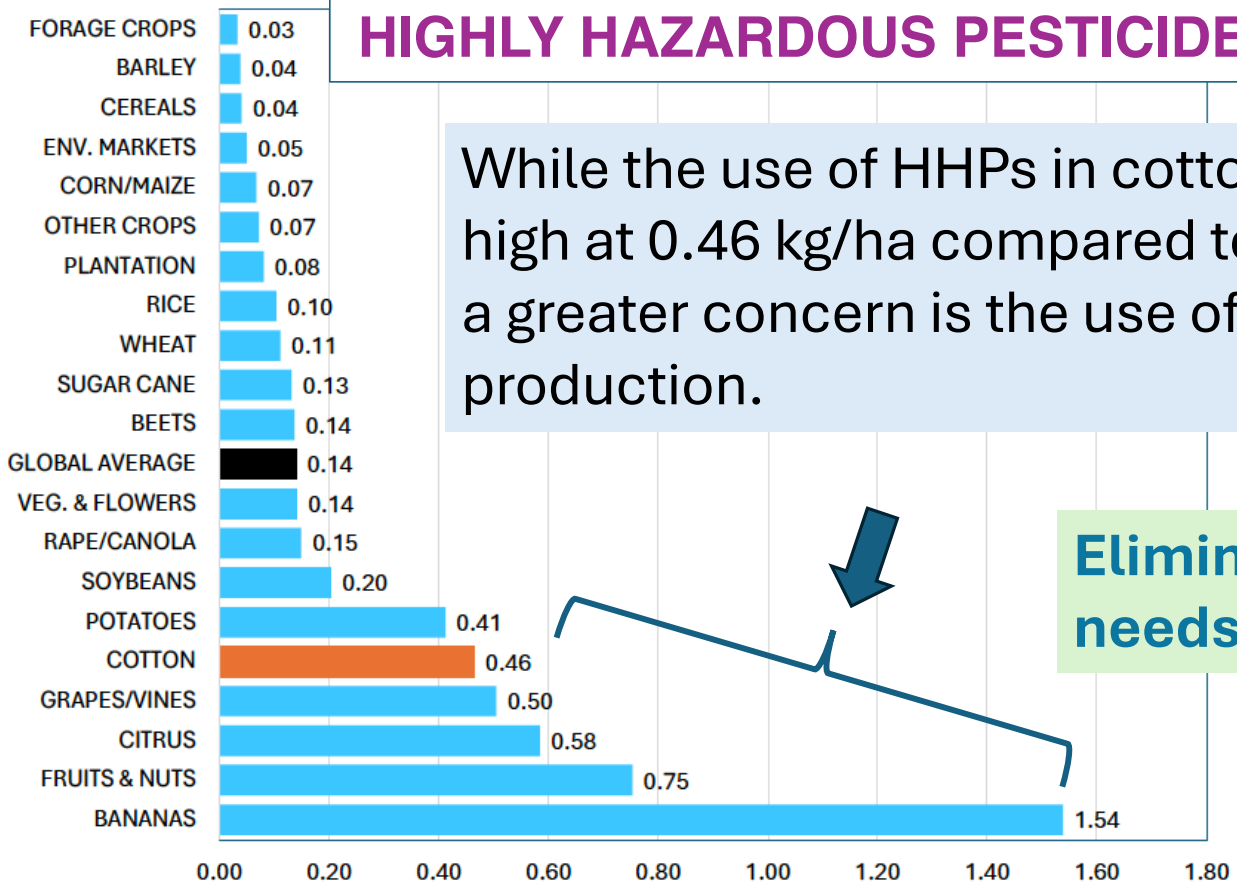


Cotton has a share of 3.9%, but higher pesticide share of rice, wheat, fruits, maize and soybeans is a major concern





HIGHLY HAZARDOUS PESTICIDES (HHP) Kg/ha



While the use of HHPs in cotton is relatively high at 0.46 kg/ha compared to many crops, a greater concern is the use of HHPs in fruit production.

Eliminating HHPs needs Priority

SPECIAL ISSUES ON PESTICIDE USE IN COTTON

March 2024

June 2024



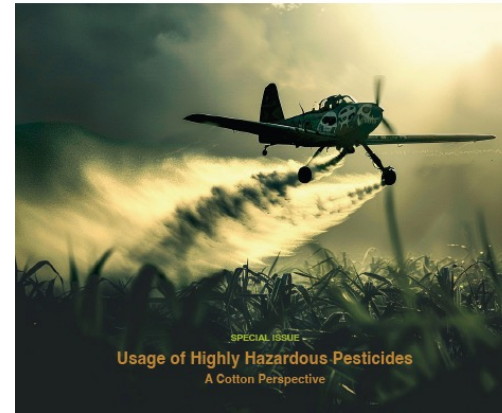
International Cotton Advisory Committee



SPECIAL ISSUE
Pesticide Usage in Cotton and Other Crops
A Global Perspective



International Cotton Advisory Committee



SPECIAL ISSUE
Usage of Highly Hazardous Pesticides
A Cotton Perspective



SUMMARY

- 99% of cotton farmers are smallholders in Asia and Africa.
- Cotton occupies 4% of global irrigated land but uses only 1.8% of global irrigation water, with high usage in arid regions.
- Despite covering 2.38% of global cropland, cotton accounts for 3.8% of global fertilizer use, with India and China leading in fertilizer consumption.
- Cotton's pesticide use is 3.9%, but crops like rice, wheat, fruits, maize, and soybeans use more, raising greater concern.
- While the use of highly hazardous pesticides in cotton is high at 0.46 kg/ha, the use in fruit production is more worrisome..



Thank you!



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