ICAC COTTON DATA BOOK 2022

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A Report by the
Technical Information Section of the
International Cotton Advisory Committee

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Bangladesh	248	Ethiopia	404	Mozambique	639	Turkmenistan	816
Benin	266	Greece	422	Myanmar	656	Uganda	502
Brazil	280	India	441	Nigeria	672	USA	840
Burkina Faso	301	Indonesia	517	Pakistan	681	Uzbekistan	877
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ICAC COTTON DATABOOK 2022

EDITORIAL: Knowledge is power. Data provides knowledge. This Data-book-2022 has almost all important facets of information on cotton production and the value chain. It builds on the format and structure presented in the Data-book-2021. This version focuses on many new aspects especially details on pesticides, weather and crop evapotranspiration. (ETc). There are trade graphs that show a full list of importing and exporting countries. A lot of information was sourced from our own web site of the ICAC, ITC Trade-map, FAO, USDA and countless number of Government web sites. Bayer Crop Science generously shared a few datasets that provide great insights into the use of pesticides across the world. My grateful thanks to them and countless friends who provided data. Mr. Mengani, Redfrox Hyderabad, helped with weather data. Dr Sandhya Kranthi, Projects Consultant, ICAC did a lot of calculations for the book. Ms. Lorena Ruiz, Economist, ICAC provided data on trade. Many researchers and Government agencies provided reams and reams of data sets. It was indeed a challenge to go through different numbers on the same aspect received from different sources. Though it takes time to validate the data obtained from multiple sources, requesting many of you for information on a common aspect is a task that I personally enjoy doing; because it connects me to all of you and helps me learn more about cotton. This edition has a few datasets such as on spacing, stalks-usage, tillage practices etc., that haven't changed much over the data-book-2021. What has changed mostly is the data on trade, area, production, productivity, water usage, fertilizer usage, pesticide usage and cost of cultivation. Though all the information pertains to 2021-22 season, a few data sets on pesticides and fertilizers were available only up to 2020, as mentioned in the respective graphs and tables. I enjoyed working on preparing the Data-book. Hope you will enjoy using it too. Making a 949 pages book such as this with thousands of graphs was a marathon task indeed. Mistakes are human, especially when handling so much of data. Please do not hesitate to point out errors if any. It helps us to improve and of course to serve you better.

WATER: Data on irrigation water (Blue) and rainwater (Green) was collected from databases, web sites, research publications, researchers, farmers and officials. Irrigation data is the most difficult to get. I discussed with several colleagues to arrive at the best possible numbers. Nevertheless the data has limitations and must be considered only as indicative.

- **Irrigation water footprint** (Litres per Kg lint produced) = Total irrigation water provided / Total lint produced (Kg).
- **Rainwater footprint** (Litres per Kg lint produced) = Total effective rainfall received / Total lint produced (Kg).
- **Effective rainfall** was calculated from the total seasonal rainfall based on the soil type of the region and ranged from 60 to 90% of the seasonal rainfall.
- **Crop Evapotranspiration (ETc)** was calculated from meteorological data by means of the FAO Penman-Monteith equation.

FERTILISERS: Data on fertiliser usage either as total quantities used in cotton or per hectare of NPK was provided by officials and researchers. The table on fertilisers is based on calculations derived from the data provided by the above sources .

COST OF CULTIVATION & PRODUCTION: Cost of cultivation data was provided by officials and researchers. Data of Australia, USA and India were drawn from official websites. All values were converted from local currencies to US$ based on the prevalent conversion rates of 2021.

Production cost of Kg lint = (Cost of cultivation + ginning cost - seed value) / Lint produced (Kg)
Production cost of Kg seed cotton = (Cost of cultivation) / Seed-cotton produced (Kg)

Keshav Kranthi
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Figure 1a. **COTTON GROWING REGIONS OF THE WORLD**