

ICAC COTTON DATA BOOK 2021

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

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Data on Countries: Cotton Production & Trade

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Australia	157	Egypt	263	Mexico	374	Turkey	482
Bangladesh	167	Ethiopia	252	Mozambique	393	Turkmenistan	496
Benin	175	Greece	271	Myanmar	402	Uganda	503
Brazil	181	India	283	Nigeria	409	USA	513
Burkina Faso	196	Indonesia	319	Pakistan	415	Uzbekistan	529
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PRODUCTION DATA

INTRODUCTION: This edition of the cotton data book has data on cotton production and cotton trade of 38 major cotton producing and consuming countries. Cotton production data include information from different cotton-growing provinces, states or regions of each of the countries. All the national average values presented in the data book are weighted means derived from the states, provinces and regions. The data book covers aspects related to number of farmers, area, production, productivity (yield), seed processing, tillage methods, planting methods, stalk usage, weeding practices, methods of harvesting and ginning, spray application methods, fertilizer usage, cropping systems, water footprint, cost of production, cost of cultivation etc. Government coordinating agencies and researchers kindly provided the data. A few countries publish their production data on web sites that was accessed as official source.

WATER: Data on irrigation water (Blue) and rainwater (Green) was collected from databases, web sites, research publications, researchers, farmers and officials. Irrigation data of USA was of 2018 and most countries of 2019 or 2020 but the calculations of water footprint were based on production of 2020. Therefore, 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 75% 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 .

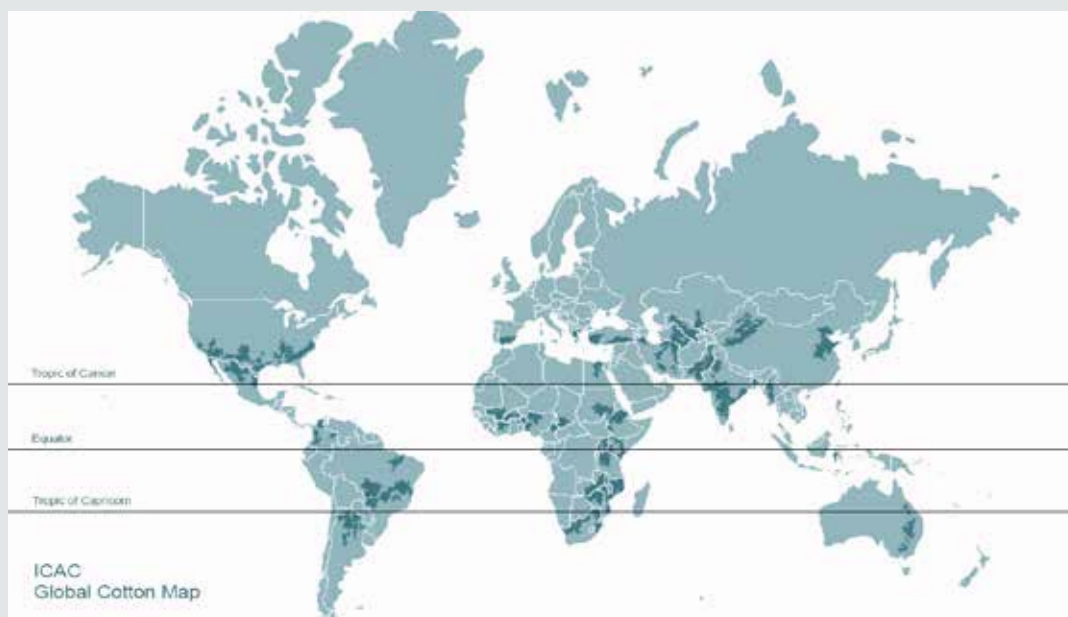
COST OF CULTIVATION & PRODUCTION: Cost of cultivation data was provided by officials and researchers. Data of Australia, USA and India were drawn from official websites. All values were converted from local currencies to US\$ based on the prevalent conversion rates of 2020.

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)

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



TRADE DATA

INTRODUCTION: In order to provide a larger scope of information and data analysis to inform member governments of the current situation in the world textile and apparel market, the ICAC Secretariat has included information about fibre, yarn, textile, and apparel trade statistics in this second issue of the annual ICAC COTTON DATA BOOK 2021. Data is provided in the form of graphs for major cotton producing, consuming, and trading countries over the period 2001 through 2018. The selection of the sampling period was based on data availability. The ICAC Secretariat has also included information about the composition of textile and apparel industry, employment and production of sustainable and organic cotton by country. The ICAC Secretariat hopes that all these data points provide insights that enhance countries' ability to make decisions that will benefit their industries and help to identify new markets. We also hope that this report will be the primary source of information for all those who want to know more about the global cotton sector.

DATA SOURCE: The main data source of our statistics come from a questionnaire-based survey of the main cotton producing, consuming and trading countries conducted by the ICAC Secretariat, as well as public sector institutions and the ITMF. Most of the trade data come from the Trade Map, International Trade Centre and data reported by Trade Data Monitor, TDM. For the most part, trade statistics are provided in both quantity and value terms. However, for some years, blanks were left when data was unavailable. Gross domestic product per capita by country was taken from the International Monetary Fund-IMF. The ICAC Secretariat conducted a survey across the cotton identity programs or initiatives to update data on the cotton produced under these initiatives.

DATA UNITS: Data for cotton lint and yarn trade is given in metric tonnes (thousand or million) and in US\$ dollar on calendar year basis (January-December). Statistical data also provides trade flows of cotton lint and cotton yarn by origin and destination. Textiles and Apparel trade statistics are provided in current US\$ dollars only. Import and export data are not necessarily reconcilable at the world level due to timing issues, estimation errors or lack of data for some countries. The average price of traded fibre and yarn was calculated as the ratio of value to volume of traded fibre and yarn, both for imports and exports (US\$/Kg). Cotton consumption by country is provided in marketing year (August-July). Gross Domestic Product-GDP per capita is expressed in current prices in international dollars per capita.

Trade data is broken down into different categories based on the Harmonized System (HS) Code: cotton fibre (HS code 5201), cotton yarn (HS codes 5204-5207), woven cotton fabrics (HS codes 5208-5212), knitted cotton fabrics (HS codes 6001.21, 6001.91, 6003.20, 6005.21, 6005.22, 6005.23, 6005.24, 6006.21, 6006.22, 6006.23, 6006.24), and textile and apparel products (HS codes 50-63).

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Figure 1b. **COTTON GROWING COUNTRIES OF THE WORLD**

