BACKGROUND

Tennessee primarily grows upland cotton in the western part of the state. County-level harvested cotton acreages, production and yields for 2022 are shown in Figures 1, 2 and 3, respectively. U.S. state-level marketing year average cotton and cottonseed prices from August 1 to July 31 are indicated in Figure 4 and Figure 5, respectively. For Tennessee in 2022, the state-level marketing year average price for cotton and cottonseed were $0.930 per pound and $345 per ton, respectively (USDA/NASS, 2023a).
Figure 1. County-Level Cotton Harvested Acres in Tennessee, 2022
Source: USDA/NASS, 2023a

Figure 2. County-Level Cotton Production in Tennessee, 2022
Source: USDA/NASS, 2023a

Figure 3. County-Level Cotton Yields in Tennessee, 2022
Source: USDA/NASS, 2023a
Figure 4. U.S. State-Level Cotton Prices Received, 2022
(Market Year Average) ($/lb)

Source: USDA/NASS, 2023a
CASH RECEIPTS

For Tennessee’s agricultural producers in 2021, cotton cash receipts at $223.4 million ranked 6th (preceded by corn, soybeans, broilers, cattle and calves, and miscellaneous crops) for the agricultural commodities produced in the state. Compared to other states for 2021, Tennessee ranked 10th in cash receipts from cotton and 7th for cottonseed (USDA/ERS, 2023).
MULTIPLIER EFFECTS

Accounting for all cotton farming for the state, and including multiplier effects, the industry in 2021 contributed an estimated $418.0 million in economic activity.¹ This economic activity was comprised of an estimated 3,909 individuals working part- or full-time in industries that support cotton farming, with a labor income of $111.0 million. The 2021 economic activity and employment multipliers were 1.53 and 1.22, respectively. If cotton production increased total industry output (economic activity) by $1 million, the state’s economy would increase by an estimated $0.53 million overall, and for each job supported in the same industry, an estimated 0.22 jobs would be supported in other industries (IMPLAN Group, LLC, 2021; Menard, 2023).

TRADE

Bulk agricultural trade for Tennessee’s cotton in 2021 totaled $628.1 million. China, Turkey, Pakistan, and Vietnam are Tennessee’s largest trading partners for cotton (USDA/FAS, 2023).²

COTTON PRODUCTION

Tennessee’s harvested cotton acreage from 2012 to 2022 is displayed in Figure 6. The average harvested acreage was 294,545.5 acres. Tennessee cotton production for that same time frame is displayed in Figure 7. Average production was 627,000 bales, based on 480-pound net weight bales. From 2012 to 2022, Tennessee cotton yields averaged 1,017.3 pounds per acre (Figure 8), with a marketing year average price of $0.722 per pound (Figure 9). Tennessee’s cottonseed production for that same time frame is displayed in Figure 10. Average production was 196,636.4 tons, with a marketing year average price of $224.1 per ton (Figure 11) (USDA/NASS, 2023a).

¹Calculations based on IMPLAN’s direct value of production of $273.0 million, which includes on-farm consumption and is net of inventory changes. IMPLAN’s cotton farming corresponds to NAICS codes 111920—establishments primarily engaged in growing cotton (US Census Bureau, 2023).
²USDA/FAS state export data limitations for agricultural shipments: 1) origin of movement is not necessarily the transportation origin (inland state intermediaries shipping agricultural commodities down the Mississippi River to the port in New Orleans may report Louisiana as the state of origin of movement, resulting in understating exports from agricultural states and overstating exports for others); and 2) consolidated shipments will reflect the state of origin where consolidated (USDA/FAS, 2023).
Compared to other states for 2022, Tennessee ranked 9th for planted cotton acreage and 8th for harvested. The state ranked 8th in yields and production for that time frame (USDA/NASS, 2023b). Texas ranked first in planted and harvested acreages, as well as production. California ranked first in yields. For cottonseed production, Tennessee ranked 8th. Texas ranked first.

Figure 6. Tennessee Harvested Cotton Acres, 2012-2022
(Source: USDA/NASS, 2023b)

Figure 7. Tennessee Cotton Production, 2013-2023
(Source: USDA/NASS, 2023b)
Figure 8. Tennessee Cotton Yields, 2012-2022
(Source: USDA/NASS, 2023c)

Figure 9. Tennessee Marketing Year Average Cotton Prices Received, 2012-2022
(Source: USDA/NASS, 2023c)
Figure 10. Tennessee Cottonseed Production, 2012-2022
(Source: USDA/NASS, 2023c)

Figure 11. Tennessee Marketing Year Average Cottonseed Prices Received, 2012-2022
(Source: USDA/NASS, 2023c)
COTTON PRODUCTION SUGGESTED READING

FIELD CROP BUDGETS


- Current Weekly Crop Comments and Market Highlights Information. Available at arec.tennessee.edu/extension/crop-economics.

CROP ECONOMICS


IRRIGATION


REFERENCES


