BACKGROUND

Tennessee grows winter wheat primarily in the western and middle part of the state. Soft red winter wheat is the dominant type of wheat produced in Tennessee. County-level wheat harvest acreage, production and yields for 2022 are shown in Figures 1, 2 and 3, respectively. U.S. state-level marketing year average wheat prices from June 1 to May 31 are indicated in Figure 4. For Tennessee in 2022, the state-level marketing year average price for wheat was $8.40 per bushel (USDA/NASS, 2023a).
Figure 1. County-Level Wheat Harvested Acres in Tennessee, 2022
Source: USDA/NASS, 2023a

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

Figure 3. County-Level Wheat Yields in Tennessee, 2022
Source: USDA/NASS, 2023a
For Tennessee’s agricultural producers in 2022, wheat cash receipts ranked 8th at $186.0 million (preceded by soybeans, broilers, cattle and calves, corn, miscellaneous crops, cotton, and hay) for the agricultural commodities produced in the state. Compared to other states for 2022, Tennessee ranked 19th in cash receipts from wheat (USDA/ERS, 2023).
MULTIPLIER EFFECTS

Accounting for all wheat farming for the state, and including multiplier effects, the industry in 2022 contributed an estimated $402.3 million in economic activity. This economic activity was comprised of an estimated 3,284 individuals working part- or full-time in industries that support wheat farming, with a labor income of $81.9 million.\(^1\) The 2022 economic activity and employment multipliers were 1.94 and 1.58, respectively. If wheat production increased total industry output (economic activity) by $1 million, the state’s economy would increase by an estimated $0.98 million overall, and for each job supported in the same industry, an estimated 0.58 jobs would be supported in other industries. Flour milling in 2022 contributed an estimated $984.6 million in economic activity and was comprised of 2,961 employees, with a labor income of $160.4 million (IMPLAN Group, LLC, 2022).

TRADE

Bulk agricultural trade for Tennessee’s wheat in 2022 totaled $2.3 million. Mexico was Tennessee’s largest trading partner for wheat (USDA/FAS, 2023).\(^2\)

WHEAT PRODUCTION

Tennessee’s planted and harvested wheat acreages from 2012 to 2022 are displayed in Figure 5. The average planted and harvested wheat acreages were 415,455 and 343,636 acres, respectively. Tennessee wheat production for that same time frame is displayed in Figure 6. Average production was 23.5 million bushels. From 2012 to 2022, Tennessee wheat yields averaged 67.8 bushels per acre (Figure 7), with a marketing year average price of $5.96 per bushel (Figure 8) (USDA/NASS, 2023a). Compared to other states for 2022, Tennessee ranked 19\(^{th}\) for both planted and harvested wheat acreages. The state ranked 18\(^{th}\) in production and

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\(^1\) Calculations based on IMPLAN’s 2022 direct value of production of $207.5 million, which includes on-farm consumption and is net of inventory changes. IMPLAN’s grain farming corresponds to NAICS codes 111130, 111140, 111150, 111191, and 111199—establishments primarily engaged in raising small grains (wheat), corn, and sorghum (US Census Bureau, 2023).

\(^2\) USDA/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).
12th in yields for that time frame (USDA/NASS, 2023b). Kansas ranked first in planted and harvested acreages. North Dakota ranked first in production, with Arizona ranking first in yields.
Figure 7. Tennessee Wheat Yields, 2012-2022
(Source: USDA/NASS, 2023c)

Figure 8. Tennessee Marketing Year Average Wheat Prices Received, 2012-2022
(Source: USDA/NASS, 2023c)
WHEAT PRODUCTION SUGGESTED READING

FIELD CROP BUDGET


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

CROP ECONOMICS


REFERENCES

IMPLAN Group LLC, IMPLAN System (2022 data and Cloud Platform V. 7.0 software), 16905 Northcross Dr., Suite 120, Huntersville, NC  28078. Available at implan.com.


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