TENNESSEE AGRI-INDUSTRY BRIEF: HAY PRODUCTION FACT SHEET

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BACKGROUND

Tennessee produces hay in every county. County-level numbers of hay farms, harvested acreage, and production for 2017 are shown for both all hay and alfalfa in Figures 1 through 6. U.S. state-level marketing year average prices for all hay and alfalfa from May 1 to April 30 are indicated in Figures 7 and 8, respectively. For Tennessee in 2022, the state-level marketing year average price for all hay and alfalfa were $137 and $224 per ton, respectively (USDA/NASS, 2023a).
Figure 1. County-Level Hay Farms in Tennessee, 2017¹
Source: USDA/NASS, 2023a

Figure 2. County-Level Hay Harvested in Tennessee, 2017
Source: USDA/NASS, 2023a

Figure 3. County-Level Hay Production in Tennessee, 2017
Source: USDA/NASS, 2023a

¹County-level data for the 2022 Census of Agriculture will not be available until the summer of 2024.
Figure 4. County-Level Alfalfa Hay Farms in Tennessee, 2017
Source: USDA/NASS, 2023a

Figure 5. County-Level Alfalfa Hay Harvested in Tennessee, 2017
Source: USDA/NASS, 2023a

Figure 6. County-Level Alfalfa Hay Production in Tennessee, 2017
Source: USDA/NASS, 2023a
Figure 7. U.S. State-Level Hay Prices Received, 2022
(Market Year Average) ($/ton)

Source: USDA/NASS, 2023a
For Tennessee’s agricultural producers in 2022, hay cash receipts at $207.7 million ranked 7th (preceded by soybeans, broilers, cattle and calves, corn, miscellaneous crops, and cotton) for the agricultural commodities produced in the state. Compared to other states for 2022, Tennessee ranked 16th in cash receipts from hay (USDA/ERS, 2023).
MULTIPLIER EFFECTS

Accounting for all hay farming for the state, and including multiplier effects, the industry in 2022 contributed an estimated $318.3 million in economic activity.\(^2\) This economic activity was comprised of an estimated 19,514 individuals working part- or full-time in industries that support hay farming, with a labor income of $73.9 million. The 2022 economic activity and employment multipliers were 1.74 and 1.03, respectively. If hay production increased total industry output (economic activity) by $1 million, the state’s economy would increase by an estimated $0.74 million overall, and for each job supported in the same industry, an estimated 0.03 jobs would be supported in other industries (IMPLAN Group, LLC, 2022).

ALL HAY PRODUCTION

Tennessee’s harvested acreage for all hay from 2012 to 2022 is displayed in Figure 9. The average harvested acreage was 1.7 million acres. Tennessee hay production for that same time frame is displayed in Figure 10. Average production was 3.9 million tons. From 2012 to 2022, Tennessee average hay yields were 2.25 tons per acre (Figure 11), with a marketing year average price of $113.32 per ton (Figure 12) (USDA/NASS, 2023a). Compared to other states for 2022, Tennessee ranked 10\(^{th}\) for harvested hay acreages, 14\(^{th}\) for production and 29\(^{th}\) for yields (USDA/NASS, 2023b). For 2022, Texas ranked first for both harvested acreage and production, with Arizona ranking first for yields.

\(^2\)Calculations based on IMPLAN’s 2022 direct value of production of $182.7 million, which includes on-farm consumption and is net of inventory changes. IMPLAN’s all other crop farming corresponds to NAICS codes 111940—establishments primarily engaged in growing hay, alfalfa, clover, and/or mixed hay and 111998—other miscellaneous crop farming (e.g., hay and grass seed farming, hop farming, and spice farming, etc.) (US Census Bureau, 2023).
Figure 9. Tennessee Harvested Hay Acres, 2012-2022
(Source: USDA/NASS, 2023b)

Figure 10. Tennessee Hay Production, 2013-2023
(Source: USDA/NASS, 2023b)
Figure 11. Tennessee Hay Yields, 2012-2022
(Source: USDA/NASS, 2023c)

Figure 12. Tennessee Marketing Year Average Hay Prices Received, 2012-2022
(Source: USDA/NASS, 2023c)
Tennessee’s harvested acreage for alfalfa hay from 2012 to 2022 is displayed in Figure 13. The average harvested acreage was 15,363.6 acres. Tennessee alfalfa hay production for that same time frame is displayed in Figure 14. Average production was 53.3 tons. From 2012 to 2022, Tennessee alfalfa average hay yields were 3.46 tons per acre (Figure 15), with a marketing year average price of $217 per ton (Figure 16) (USDA/NASS, 2023a). Compared to other states for 2022, Tennessee ranked 34th for harvested alfalfa hay acreage. The state ranked 32nd in production and 23rd in yields for that time frame (USDA/NASS, 2023b). South Dakota ranked first for harvested alfalfa hay acreage. Idaho ranked first in production, with Arizona ranking first in yields.

**Figure 13. Tennessee Harvested Alfalfa Hay Acres, 2012-2022**
(Source: USDA/NASS, 2023b)
Figure 14. Tennessee Alfalfa Hay Production, 2013-2023
(Source: USDA/NASS, 2023b)

Figure 15. Tennessee Alfalfa Hay Yields, 2012-2022
(Source: USDA/NASS, 2023c)
Figure 16. Tennessee Marketing Year Average Alfalfa Hay Prices Received, 2012-2022
(Source: USDA/NASS, 2023c)

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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