



Department of  
**Agriculture**

# BIENNIAL REPORT

19  
20



*table of*  
**CONTENTS**

COMMISSIONER'S MESSAGE .....	3
FY 2019 AGRICULTURE HIGHLIGHTS .....	4
2020 PANDEMIC RESPONSE .....	5
<b>FY 2020 AGRICULTURE STATISTICS</b>	
ADMINISTRATION, GRANTS, AND COMMODITIES .....	6
BUSINESS DEVELOPMENT .....	8
CONSUMER AND INDUSTRY SERVICES .....	10
FORESTRY .....	12
ANIMAL HEALTH AND LAB DIAGNOSTICS .....	14
USDA NASS STATISTICS .....	16

When thinking back on the last two years, it's difficult to summarize it all in a few short paragraphs. From 2019 to 2020, our world experienced immense change. The COVID-19 pandemic has touched every single one of us and continues to affect nearly every corner of the globe. In this biennial report, you will gain an understanding of how the Tennessee Department of Agriculture stepped up, pitched in, and held strong to our commitment to serve the citizens of Tennessee.

This new environment reinforces the fact that agriculture is vital for the most important aspects of our daily lives. Farmers, foresters, manufacturers, distributors, and retailers ensure community access to safe and abundant food, fuel, fiber, and wood products. The Department's priority remains protecting the safety and health of our staff and our customers while delivering the services you trust and expect. In the following pages you will see how agriculture in our state has continued to progress, positively impacting Tennessee's economy by billions of dollars even in the face of uncertainty.

Advancement of our rural areas is a primary focus. Investments in grant programs and projects to enhance farm incomes create positive outcomes in all of our communities. Even with budget cutbacks, we were able to keep those programs in place. And with federal assistance, we are proud to have offered the nation's most comprehensive pandemic recovery initiative to reinforce the agriculture industry. The Coronavirus Agricultural and Forestry Business Fund helped stabilize the food supply and agribusinesses, with \$55 million approved for financial relief to the individuals and organizations that needed it most.

There is no denying that our lives have been altered by this unpredictable and devastating virus. Yet no matter the challenges they face, farmers and foresters remain resilient. There is comfort in knowing that the agriculture community stands together in the face of the storm.

Thank you for your interest in and support of agriculture,

A white, handwritten signature of Charlie Hatcher on a dark red background. The signature is fluid and cursive, starting with a large 'C' and ending with a long, sweeping underline.

Charlie Hatcher, D.V.M.  
Tennessee Commissioner of Agriculture

# 2019 AGRICULTURE HIGHLIGHTS



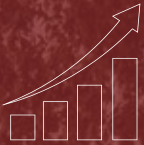
Invested \$28.7 million in agriculture grants for 8,203 projects



Paid \$17.7 million in 5,387 TAEP (Tennessee Agricultural Enhancement Program) projects



Awarded more than \$957K in Agricultural Enterprise Fund (AEF) grants to 27 recipients, creating 158 new jobs



The Agricultural Museum welcomed 12,000 visitors and hosted 4,100 students.



More than \$5 million provided in incentive funding for 2,313 erosion control and water quality projects



2,563 businesses registered with Pick Tennessee Products and \$1.4 billion in agriculture and forest products exported



Schools received 25 million pounds of food and the Emergency Food Assistance Program distributed an additional 34 million pounds.

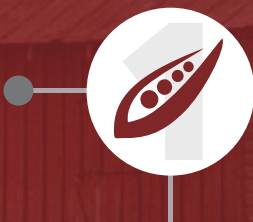


16,117 forest acres improved through woodland owner activity, and 3.5 million tree seedlings sold



99,172 fuel pumps inspected, 7,700 fuel samples tested, 14,550 food inspections conducted, 784 livestock welfare complaints addressed, and 1,160 Kord Lab necropsies performed

## TOP COMMODITIES



SOYBEANS  
**\$655M**



CATTLE/CALVES  
**\$548M**



BROILER CHICKENS  
**\$525M**



CORN  
**\$385M**

## Coronavirus Agricultural and Forestry Business (CAFB) Fund

The Tennessee Department of Agriculture established the Coronavirus Agricultural and Forestry Business (CAFB) Fund to help ensure stability of the food supply chain and agribusiness economy during the COVID-19 pandemic. The fund provided financial assistance to agricultural, food, forestry, and nonprofit agricultural entities in Tennessee. Tennessee's investment of federal assistance is the largest in the nation across the spectrum of agriculture, including forest and other related businesses.

**\$55 MILLION**  
TOTAL FUNDING APPROVED



BREWERIES

**FOOD PROCESSORS**  
\$4,520,268

**MEAT PROCESSORS**  
\$11,166,752



**FORESTRY SAWMILLS**  
\$5,746,404

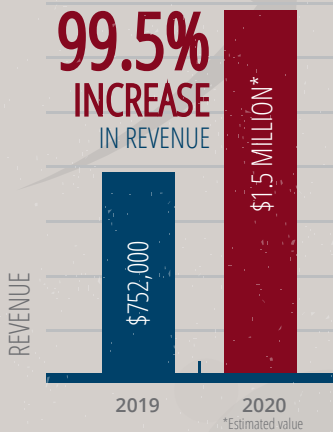
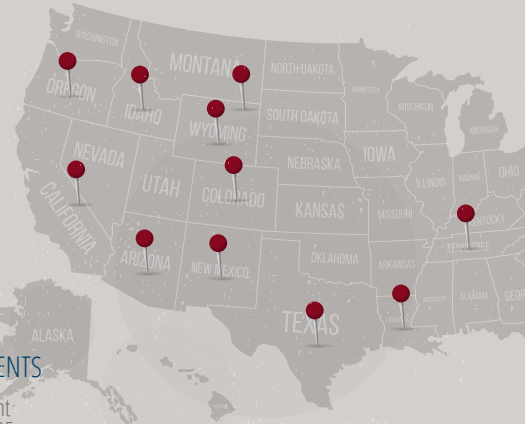
**FORESTRY LOGGERS**  
\$5,300,947

EVENTS

TOP CATEGORIES AWARDED

## Out-of-State Deployments

One of the highest priorities within the Department's Division of Forestry is to strengthen emergency response capabilities by increased implementation of the National Incident Management System and greater development of the Division's incident management teams. Accelerated participation in out-of-state emergency fire deployments during the last two years has provided an intensive, hands-on approach in meeting this priority.



**400% INCREASE**  
IN EQUIPMENT DEPLOYMENTS

In 2019, we utilized 5 equipment resources. In 2020, we utilized 25 resources, including bulldozers and fire engines.



**552% INCREASE** IN PERSONNEL DEPLOYMENTS

In 2019, 25 personnel were deployed to 3 states. In 2020, 163 personnel were deployed to 11 states.

## Laboratory Testing

The C. E. Kord Animal Health Diagnostic Laboratory provides testing to support healthy animals in Tennessee. Monitoring animals in close contact with people aids in detection of emerging diseases, supporting the vital worldwide collaboration among public and animal health officials known as the One Health initiative.



### Chronic Wasting Disease

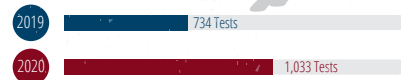
In 2020, for the first time CWD testing capabilities were added and conducted in-state by TDA. Chronic wasting disease (CWD) is a disease that affects deer, elk, reindeer, sika deer and moose. In 2020, Kord Lab performed 3,200 CWD tests. Of those tests, 107 were positive.

ZERO  
IN-STATE  
TESTS

3,200  
TESTS IN 2020



### Seneca Valley Virus & Foot-and-Mouth Disease



Foot-and-mouth disease (FMD) is a severe and highly contagious viral disease in cows, pigs, sheep, goats, deer, and other animals with divided hooves currently not found in the U.S. Seneca Valley Virus (SVV) is a less severe disease that circulates among the pig population but mimics FMD. In 2020, TDA received a \$250K federal grant to develop a first-of-its-kind rapid test for FMD in partnership with Vanderbilt University that has the potential to transform early disease detection on a national scale.

# ADMINISTRATION, GRANTS, AND COMMODITIES

*BASED ON FISCAL YEAR 2020*

---

**8,704**

TOTAL AGRICULTURAL  
GRANTS



**\$33.9M**

TOTAL AGRICULTURAL  
GRANT FUNDING



**\$73.8M**

FOOD DISTRIBUTION  
FUNDING



**143**

FOOD DISTRIBUTION  
LOCATIONS



This information was developed by the Tennessee Department of Agriculture to share information about some of our largest grant programs. This data shows the aggregate number of projects and funding. The data provided is from FY 2019/2020 (July 1, 2019 to June 30, 2020).

## TENNESSEE AGRICULTURAL ENHANCEMENT PROGRAM

**\$21.3M**

TOTAL PAID



**\$129.9M**

ECONOMIC IMPACT



**5,807**

PROJECTS

## FORESTRY GRANTS



**224,708**

WILDFIRE MANAGEMENT  
& PREVENTION GRANTS



**63,570**

URBAN FORESTRY  
GRANTS



**193,958**

RURAL FORESTRY  
GRANTS

## LAND AND WATER STEWARDSHIP

**\$6,172,873**

TOTAL  
INVESTMENTS



**2,353**

CONSERVATION  
PRACTICES



**95**

COUNTIES

# BUSINESS DEVELOPMENT

*BASED ON FISCAL YEAR 2020*

---



**2,700+**

PICK TENNESSEE  
PRODUCTS BUSINESSES



**5,807**

TENNESSEE AGRICULTURAL  
ENHANCEMENT PROGRAM PROJECTS



**\$56.7 M**

AGRICULTURAL ENTERPRISE FUND  
ECONOMIC IMPACT

This information was developed by the Tennessee Department of Agriculture to share information about programs within the Business Development Division. The data provided is from FY 2019/2020 (July 1, 2019 to June 30, 2020). The AEF economic impact data is cumulative from the year of program origination, beginning in August of 2017.



## TENNESSEE AGRICULTURAL ENHANCEMENT PROGRAM (TAEP)



**\$5,853,050**

ROW CROP SOLUTIONS



**\$5,742,370**

HAY



**\$4,134,982**

LIVESTOCK EQUIPMENT



**\$1,836,411**

LIVESTOCK SOLUTIONS



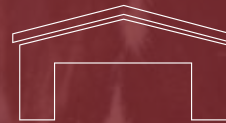
**\$1,088,189**

PRODUCER DIVERSIFICATION



**\$1,046,270**

LIVESTOCK GENETICS



**\$920,100**

WORKING FACILITY  
STRUCTURES



**\$372,940**

POULTRY GROWER



**\$340,570**

HERD HEALTH

## AGRICULTURAL ENTERPRISE FUND (AEF)



**45**

AWARD RECIPIENTS

**\$2M**

TOTAL INVESTMENTS



**307**

NEW JOBS

# CONSUMER AND INDUSTRY SERVICES

BASED ON FISCAL YEAR 2020



**14,952**

LICENSED INDIVIDUALS  
(As of June 30, 2020)



**38,880**

LICENSED FACILITIES  
(As of June 30, 2020)



**45,683**

TOTAL INSPECTIONS  
(FY 2020)

The licensing and inspections data was developed by the Tennessee Department of Agriculture to share information about the functions performed by the Consumer and Industry Services Division. It includes regulatory inspections performed and licenses issued as required by law and rule. The data contains licenses and inspections within the State of Tennessee. The term "license" represents permits, certifications, charters, and professional licenses. The data provided is based on the last day of FY 2020 (June 30, 2020). Inspections are based on FY 2019/2020 (July 1, 2019 to June 30, 2020).

**THE BREAKDOWN**  
(As of June 30, 2020)



**380**  
AG INPUT  
LICENSES



**13,843**  
PESTICIDE RELATED  
LICENSES



**7,893**  
BEEKEEPER  
LICENSES



**7,955**  
PLANT RELATED  
LICENSES



**564**  
DAIRY RELATED  
LICENSES



**4,749**  
TOBACCO ENFORCEMENT  
INSPECTIONS

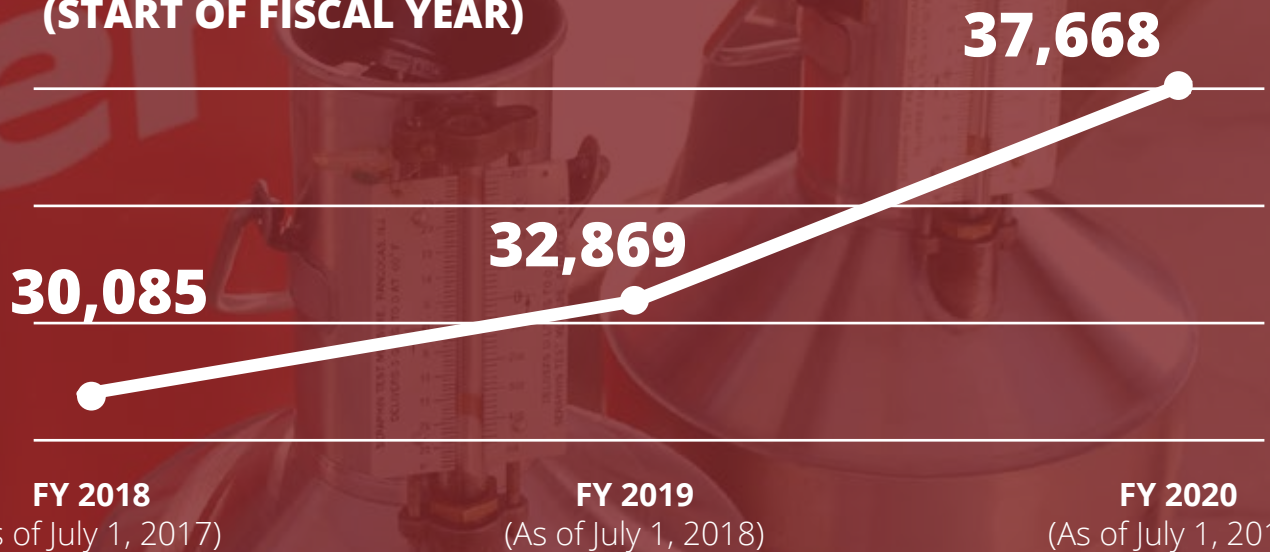


**10,481**  
FOOD RELATED  
LICENSES



**12,716**  
FUEL RELATED AND  
WEIGHTS & MEASURES  
LICENSES

**FACILITY LICENSE TRENDS  
(START OF FISCAL YEAR)**



# FORESTRY

BASED ON FISCAL YEAR 2020

---



**734**

FOREST MANAGEMENT  
PLANS IMPACTING

**67,255 ACRES**



**2,389,928**

TREE SEEDLINGS SOLD



**21**

FORESTRY AGRICULTURAL  
ENTERPRISE FUND AWARD  
RECIPIENTS TOTALING

**\$1,033,104**

This information was developed by the Tennessee Department of Agriculture's Division of Forestry to share information about various functions and operations. All data is from FY 2019/2020 (July 1, 2019 to June 30, 2020).

## WILDFIRE STATISTICS



**64**

PERSONNEL DEPLOYED  
TO FIGHT WILDFIRES  
OUT-OF-STATE



**34**

PERSONNEL DEPLOYED  
IN-STATE TO ASSIST  
WITH EMERGENCY  
RESPONSE



**448,223**

BURN PERMITS  
ISSUED FOR  
34,546 ACRES



**443**

WILDFIRES SUPPRESSED  
THAT BURNED  
3,668 ACRES

## OTHER FORESTRY STATISTICS



**436**

VOLUNTEER FIRE  
DEPARTMENTS

**27**

FIREWISE  
COMMUNITIES



**264**

SAWMILLS  
STATEWIDE



# ANIMAL HEALTH AND LAB DIAGNOSTICS

*BASED ON FISCAL YEAR 2020*

---



**190,638**

LIVESTOCK PRODUCER  
TESTS



**\$5.8M**

ESTIMATED MARKET VALUE  
OF LIVESTOCK TESTS



**1,097**

NECROPSY  
EXAMINATIONS

This information was developed by the Tennessee Department of Agriculture's Animal Health Division to share information about the functions performed by the Division and the C.E. Kord Animal Health Diagnostic Laboratory. It includes the laboratory testing data, licensure data, Tennessee animal exports and imports, and other Animal Health program functions overseen by the Division. The data provided is from FY 2019/2020 (July 1, 2019 to June 30, 2020).

**OTHER ANIMAL DATA**



**51**

LICENSED  
LIVESTOCK  
MARKETS



**\$110,465**

ANIMAL  
FRIENDLY  
GRANTS



**83**

LICENSED  
LIVESTOCK  
DEALERS

**MOVEMENT OF LIVE ANIMALS**



**53.8 MILLION**

TOTAL ANIMALS EXPORTED



**48.2 MILLION**

TOTAL ANIMALS IMPORTED

# 10,800,000 ACRES 70,000 FARMS

*by commodity*

## PRODUCTION

			NATIONAL RANK	
	2019	2020	2019	2020
Corn	161,070,000 bu.	140,250,000 bu.	16	15
Wheat	14,405,000 bu.	13,570,000 bu.	17	18
Soybeans	64,390,000 bu.	81,000,000 bu.	16	16
Hay, Alfalfa	48,000 tons	74,000 tons	31	31
Hay, Other	4,025,000 tons	4,066,000 tons	4	5
Cotton	960,000 bales	610,000 bales	8	8
Tobacco, Burley	6,400,000 lbs.	4,340,000 lbs.	3	3
Tobacco, Dark Air	6,450,000 lbs.	8,510,000 lbs.	2	2
Tobacco, Dark Fire	17,640,000 lbs.	16,530,000 lbs.	2	2
Cattle, All	1,810,000 head	1,790,000 head	16	16
Cattle, Beef	909,000 head	900,000 head	11	12
Cattle, Milk	31,000 head	30,000 head	31	31
Hogs & Pigs	250,000 head	260,000 head	20	20
Sheep, All	49,000 head	53,000 head	30	27
Goats, Meat & Other	100,000 head	96,000 head	2	2
Goats, Milk	7,000 head	7,000 head	18	20
Broiler Chickens				
Number of Farms	70,000	70,000	9	9
Land in Farms	10,800,000 ac.	10,800,000 ac.	25	25
Average Farm Size	155 ac.	155 ac.	42	42

Source: USDA's National Agricultural Statistics Service



## by commodity

# CROP PRODUCTION

2020	Harvested	Yield Per Acre	Production	Value (1)
Corn (2)	825,000 ac.	170.0 bu.	140,250,000 bu.	\$617,100,000
Soybeans (2)	1,620,000 ac.	50.0 bu.	81,000,000 bu.	\$923,400,000
Wheat, Winter (2)(3)	230,000 ac.	59.0 bu.	13,570,000 bu.	\$73,957,000
Cotton (4)	275,000 ac.	1,065 lbs.	610,000 lbs.	\$192,370,000
Hay, All	1,749,000 ac.	2.37 tons	4,140,000 tons	\$483,574,000
Hay, Alfalfa	19,000 ac.	3.90 tons	74,000 tons	\$15,984,000
Hay, All Other	1,730,000 ac.	2.35 tons	4,066,000 tons	\$467,590,000
Tobacco, All	12,300 ac.	2,389 lbs.	29,380,000 lbs.	\$76,536,000
Tobacco, Burley	2,800 ac.	1,550 lbs.	4,340,000 lbs.	\$8,637,000
Tobacco, Dark Fire-Cured	5,800 ac.	2,850 lbs.	16,530,000 lbs.	\$46,284,000
Tobacco, Dark Air-Cured	3,700 ac.	2,300 lbs.	8,510,000 lbs.	\$21,615,000

(1) Preliminary

(2) Area harvested represents grain.

(3) Includes area planted in preceding fall. (4) Production in 480-lb. net weight bales.

Source: USDA's National Agricultural Statistics Service

# \$3,583,709,000

## by commodity **CASH RECEIPTS**

	2019	2020
All Commodities	\$3,405,924,000	\$3,583,709,000
Animals and Products	\$1,281,996,000	\$1,234,742,000
Crops	\$2,123,928,000	\$2,348,968,000
Soybeans	\$623,075,000	\$719,446,000
Corn	\$457,373,000	\$541,565,000
Cattle and Calves	\$487,665,000	\$512,466,000
Miscellaneous Crops	\$390,356,000	\$390,472,000
Broiler Chickens	\$ 457,715,000	\$376,206,000
Cotton Lint, Upland	\$224,370,000	\$281,765,000
Hay	\$153,010,000	\$156,684,000
Dairy Products, Milk	\$105,924,000	\$100,768,000
Hogs	\$91,620,000	\$99,313,000
Tobacco	\$85,167,000	\$75,874,000
Wheat	\$79,790,000	\$72,677,000
Mushrooms	\$72,565,000	\$72,565,000
Chicken Eggs	\$59,194,000	\$64,413,000
Cottonseed	\$37,934,000	\$37,347,000
Turkeys	\$16,612,000	\$18,754,000
Trout	\$1,641,000	\$2,134,000
Honey	\$2,152,000	\$1,567,000
All Other Animals and Products*	\$59,760,000	\$59,692,000

(\*) Includes rapeseed, farm chickens, mohair, wool, and all other animals and products.

Values are rounded to the nearest thousand. Data as of September 2, 2021.  
Source: USDA's National Agricultural Statistics Service - Economic Research Service

# summary per head LIVESTOCK

	2019	2020
All Cattle and Calves	1,830,000	1,800,000
Cows and Heifers That Have Calved	950,000	950,000
Beef Cows	910,000	914,000
Milk Cows	40,000	36,000
Calves Under 500 Pounds	430,000	410,000
Steers 500 Pounds and Over	150,000	130,000
Heifers 500 Pounds and Over		
Beef Cow Replacements	135,000	145,000
Milk Cow Replacements	25,000	25,000
Other Heifers	80,000	75,000
Bulls 500 Pounds and Over	60,000	65,000
Calf Crop	860,000	860,000
Total Hogs	250,000	260,000
All Meat & Other Goats	89,000	100,000
All Milk Goats	7,000	7,400
All Sheep & Lambs (1)	48,000	49,000
Lamb Crop (2)	34,000	37,000
All Layers	1,409,000	1,618,000
Total Pullets	1,047,000	1,432,000
Other Chickens	145,000	137,000
All Chickens	2,601,000	3,187,000

(1) All sheep includes new crop lambs. New crop lambs are lambs born after September 30, the previous year.

(2) Total for the year. Lamb crop defined as lambs marked, docked or branded.

Source: USDA's National Agricultural Statistics Service



Tennessee Department of Agriculture  
Ellington Agricultural Center  
440 Hogan Road | Nashville, TN 37220

(615) 837-5103  
[tn.gov/agriculture](http://tn.gov/agriculture)



See what's happening in agriculture and forestry where you live. The Tennessee Department of Agriculture offers free, interactive data online. Live dashboards show the most requested data and key metrics from a statewide overview down to the county level.



Tennessee Department of Agriculture, Authorization No. 325529, 200 copies, April 2021. This public document was promulgated at a cost of \$2.80 per copy.