



# Land Grant Report

2019-20

Pursuant to Tennessee Code Annotated Section 49-7-218, the Tennessee Higher Education Commission shall produce by February 15 of each year a report to the General Assembly detailing, for the immediately preceding academic year, the amount of any federal appropriations made to, and the amount of any matching funds received by, each federal land-grant institution of higher education in this state for each of the agricultural research, extension, education, and related programs established under:

- (1)** Section 1444 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. § 3221);
- (2)** Section 1445 of the National Agricultural Research, Extension, and Teaching Policy Act of 1977 (7 U.S.C. § 3222);
- (3)** Sections 3(b) and (c) of the Smith-Lever Act (7 U.S.C. § 343); and
- (4)** The Hatch Act of 1887 (7 U.S.C. § 361a et seq.).

The commission's report:

- (1)** Must include the amount of any state appropriations made to each federal land-grant institution of higher education in this state for agriculture education; and
- (2)** May include any additional information that may assist the general assembly in providing equitable funding to each of the federal land-grant institutions of higher education in this state.

### **Acknowledgements**

The Tennessee Higher Education Commission gratefully acknowledges the institutions and agencies that provided the information necessary to compile the Tennessee Higher Education Land Grant Report. Original data is sourced from the United States Department of Agriculture and verified by the University of Tennessee and its institutions and Tennessee State University.

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2019-20 Commission Members**

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## History of Tennessee's Land Grant Universities

The Morrill Land-Grant Act, introduced by Representative Justin Morrill (VT) and passed by President Abraham Lincoln in 1862, provided an education-based solution to local labor market demands of the time. This act provided land and funds to establish universities focused on practical education teaching agriculture, military tactics, mechanic arts as well as classical studies. The newly established institutions were envisioned as an opportunity to provide working class families the necessary training to enter into more sustainable careers. In Tennessee, the 1862 Morrill Act established the University of Tennessee – Knoxville.

In 1890, the federal government passed the second Morrill Act. States with segregated land-grant institutions would be eligible to receive support for institutions serving only black students. The 1890 Morrill Act bestowed land-grant status to Tennessee State University. A third Morrill Act, enacted in 1994, granted land-grant status to Native American Tribal Colleges.<sup>i</sup> Tennessee has no tribal colleges and is therefore not a recipient of funds made available by the third Morrill Act.

The United States Department of Agriculture (USDA) National Institute of Food and Agriculture (NIFA) offers capacity grants to support research and extension activities. The grant amounts are primarily distributed to land-grant institutions and are based on statutory formulas which include share of state population living in rural areas and percent of land dedicated to farming activity.<sup>ii</sup> Many of these grants—and all of the grants included in this report—require institutions provide matching funds from a non-federal source that are equal to or greater than the federal appropriation awarded. The non-federal source can be a singular source or collection of sources such as private organizations, state appropriations or county-level appropriations. In Tennessee, state government has historically appropriated matching funds to the land-grant institutions.

## Funds Allocated to Land Grant Units

### Total Capacity Grant Investment

The capacity grants of interest in this report are the Agriculture Extension Programs at 1890 Institutions, Agricultural Research at 1890 Land-Grant Institutions, the Smith-Lever Capacity Grant, the Hatch Act of 1887, and the McIntire-Stennis Capacity Grant. Federal guidelines require institutions garner a one-to-one match of federal and non-federal funds to be in compliance with the requirements of these federal grant programs. In fiscal year 2018-19—the most recent verifiable year of federal data—Tennessee State University and University of Tennessee secured their required non-federal match funds and received their federal allocations of \$6.6 million and \$16.6 million, respectively. The most recent five years of federal appropriations, matching funds required, and status of the match requirement are outlined in the tables below.

Total TSU				
		Federal Appropriation	Matching Funds Required	Match Met by State Allocation
FY 2015	TSU	\$6,403,868	\$6,403,868	No <sup>1</sup>
FY 2016	TSU	\$6,471,432	\$6,471,432	No <sup>2</sup>
FY 2017	TSU	\$6,459,191	\$6,459,191	Yes
FY 2018	TSU	\$6,465,918	\$6,465,918	Yes
FY 2019	TSU	\$6,670,266	\$6,670,266	Yes

Source: United States Department of Agriculture, verified by Tennessee State University.

1 - State allocation in FY 2014-15 was \$5,566,800. The remaining \$1,101,611 of federally required match was met through additional non-federal funds.

2 - State allocation in FY 2015-16 was \$5,731,300. The remaining \$1,071,560 of federally required match was met through additional non-federal funds.

Total UT				
		Federal Appropriation	Matching Funds Required	Match Met by State Allocation
FY 2015	UT	\$15,678,098	\$15,763,001	Yes
FY 2016	UT	\$15,701,583	\$15,785,498	Yes
FY 2017	UT	\$15,646,959	\$15,725,064	Yes
FY 2018	UT	\$15,469,466	\$15,716,650	Yes
FY 2019	UT	\$16,331,742	\$16,559,424	Yes

Source: United States Department of Agriculture, verified by University of Tennessee Institute of Agriculture.

## Section 1444 of the National Ag Research, Extension, and Teaching Policy Act of 1977

The Agriculture Extension Program at 1890 Land-Grant Institutions capacity grant supports agricultural and forestry extension activities at the 1890 land-grant institutions. This grant is limited to the 1890 land-grant institutions, statutorily excluding 1862 land-grant institutions like the University of Tennessee. Recipients must receive a 100 percent match from non-federal sources or apply for and receive a waiver. The program supports practical, research-based educational opportunities aligned with statewide and local needs, often funding small- to medium-size farms, helping them place their products in local, national, and international markets. Funds also support training for minority farmers and landowners in acquiring capital, adopting new technologies, and improving financial efficiencies.<sup>iii</sup>

Agricultural Extension Programs at 1890 Institutions (Section 1444)				
		Federal Appropriation	Matching Funds Required	Match Met by State Allocation
FY 2015	TSU	\$2,904,030	\$2,904,030	Yes
FY 2016	TSU	\$2,938,031	\$2,938,031	Yes
FY 2017	TSU	\$2,938,031	\$2,938,031	Yes
FY 2018	TSU	\$2,938,031	\$2,938,031	Yes
FY 2019	TSU	\$3,012,128	\$3,012,128	Yes

Source: United States Department of Agriculture, verified by Tennessee State University.

## Section 1445 of the National Ag Research, Extension, and Teaching Policy Act of 1977

The Agriculture Research at 1890 Land-Grant Institutions, or Evans-Allen, capacity grant supports agricultural research at the 1890 land-grant institutions. As with the Section 1444 grant, this grant is limited to the 1890 land-grant institutions, statutorily excluding 1862 land-grant institutions like the University of Tennessee. Recipients of this grant must provide a 100 percent match from a non-federal source or apply for and receive a waiver. The funds from this grant are intended to support agricultural research and ensure capital capacity necessary for conducting agricultural research.<sup>iv</sup>

<b>Agricultural Research at 1890 Land-Grant Institutions (Section 1445)</b>				
		Federal Appropriation	Matching Funds Required	Match Met by State Allocation
FY 2015	TSU	\$3,380,111	\$3,380,111	No <sup>1</sup>
FY 2016	TSU	\$3,412,660	\$3,412,660	No <sup>2</sup>
FY 2017	TSU	\$3,403,914	\$3,403,914	Yes
FY 2018	TSU	\$3,410,347	\$3,410,347	Yes
FY 2019	TSU	\$3,532,650	\$3,532,650	Yes

Source: United States Department of Agriculture, verified by Tennessee State University.

1 - State allocation in FY 2014-15 was \$2,278,500. The remaining \$1,101,611 of federally required match was met through other non-federal funds.

2 - State allocation in FY 2015-16 was \$2,341,100. The remaining \$1,071,560 of federally required match was met through other non-federal funds.

### Sections 3(b) and (c) of the Smith-Lever Act

Sections 3(b) and 3(c) of the Smith-Lever Act provide grant funds to 1862 land-grant institutions to conduct agricultural extension work. This grant is limited to the 1862 land-grant institutions, excluding 1890 land-grant institutions like Tennessee State University. Recipients of this grant must provide a 100 percent match from a non-federal source or apply for and receive a waiver.<sup>v</sup>

<b>Smith-Lever Capacity Grant</b>				
		Federal Appropriation	Matching Funds Required	Match Met by State Allocation
FY 2015	UT	\$8,921,886	\$8,921,886	Yes
FY 2016	UT	\$8,959,920	\$8,959,920	Yes
FY 2017	UT	\$8,952,851	\$8,952,851	Yes
FY 2018	UT	\$8,767,110	\$8,934,249	Yes
FY 2019	UT	\$9,209,028	\$9,356,373	Yes

Source: United States Department of Agriculture, verified by University of Tennessee Institute of Agriculture.

### The Hatch Act of 1887

The Hatch Act of 1887 funds programs at state agricultural experiment stations that conduct agricultural research. The research funded by this grant is intended to solve agriculture problems of local, state, regional, and national levels. Potential research topics include: soil and water conservation and use; plant and animal production, protection, and health; human nutrition; rural and community development; sustainable agriculture; molecular biology; and biotechnology.<sup>vi</sup>



The Hatch Act of 1887 Multistate Research Fund supports institutions conducting research described above where a state agricultural experiment station works with another state agricultural experiment station, the Agricultural Research Service, or a college or university to solve problems of concern to more than one state. This grant supports agricultural research efforts at 1862 land-grant institutions as well as state agricultural experiment stations.<sup>vii</sup>

Both Hatch Act of 1887 grants require a 100 percent match from a non-federal source and are granted primarily to 1862 land-grant institutions and state agricultural experiment stations. As with the Smith-Lever act, this grant is limited to the 1862 land-grant institutions, excluding 1890 land-grant institutions like Tennessee State University.

<b>Hatch Act 1887</b>				
		Federal Appropriation	Matching Funds Required	Match Met by State Allocation
FY 2015	UT	\$4,931,645	\$4,931,645	Yes
FY 2016	UT	\$4,911,103	\$4,911,103	Yes
FY 2017	UT	\$4,880,663	\$4,880,663	Yes
FY 2018	UT	\$4,884,203	\$4,884,203	Yes
FY 2019	UT	\$5,178,836	\$5,178,836	Yes

Source: United States Department of Agriculture, verified by University of Tennessee Institute of Agriculture.

<b>The Hatch Act of 1887 (Multistate Research Fund)</b>				
		Federal Appropriation	Matching Funds Required	Match Met by State Allocation
FY 2015	UT	\$1,146,117	\$1,231,020	Yes
FY 2016	UT	\$1,146,362	\$1,230,277	Yes
FY 2017	UT	\$1,149,054	\$1,227,159	Yes
FY 2018	UT	\$1,152,093	\$1,232,138	Yes
FY 2019	UT	\$1,232,780	\$1,313,117	Yes

Source: United States Department of Agriculture, verified by University of Tennessee Institute of Agriculture.

## **McIntire-Stennis Capacity Grant**

The McIntire-Stennis Capacity Grant provides funding to states that are leading forestry research and training of forest scientists. These scientists conduct research on managing land dedicated to crops and timber; improving conditions of water flow; protecting against floods and erosion; and protecting forest lands against fire, insects, diseases, or other destructive agents. Recipients of this grant must provide a 100 percent match from a non-

federal source or apply for and receive a waiver. Both 1862 and 1890 land-grant institutions are eligible to receive this grant.<sup>viii</sup>

<b>TSU – McIntire-Stennis Capacity Grant</b>				
		Federal Appropriation	Matching Funds Required	Match Met by State Allocation
FY 2015	TSU	\$119,727	\$119,727	Yes
FY 2016	TSU	\$120,741	\$120,741	Yes
FY 2017	TSU	\$117,246	\$117,246	Yes
FY 2018	TSU	\$117,540	\$117,540	Yes
FY 2019	TSU	\$125,488	\$125,488	Yes

Source: United States Department of Agriculture, verified by Tennessee State University.

<b>UT – McIntire-Stennis Capacity Grant</b>				
		Federal Appropriation	Matching Funds Required	Match Met by State Allocation
FY 2015	UT	\$678,450	\$678,450	Yes
FY 2016	UT	\$684,198	\$684,198	Yes
FY 2017	UT	\$664,391	\$664,391	Yes
FY 2018	UT	\$666,060	\$666,060	Yes
FY 2019	UT	\$711,098	\$711,098	Yes

Source: United States Department of Agriculture, verified by University of Tennessee Institute of Agriculture.

## Current Funding of Land-Grant Institutions & Units

The state of Tennessee allocates funds to the units below which house each of the land-grant capacity funds requiring non-federal match funds.

State Appropriations					
	2014-15	2015-16	2016-17	2017-18	2018-19
UT Agricultural Experiment Station	\$25,557,800	\$26,380,600	\$27,625,600	\$29,048,400	\$30,435,300
UT Agricultural Extension Service	31,044,400	32,384,200	33,831,200	35,590,500	37,509,700
<b>UT Total</b>	<b>\$56,602,200</b>	<b>\$58,764,800</b>	<b>\$61,456,800</b>	<b>\$64,638,900</b>	<b>\$67,945,000</b>
TSU Institute of Ag. and Environmental Research	\$2,278,500	\$2,340,600	\$3,456,300	\$3,541,700	\$3,613,700
TSU Cooperative Extension	3,108,900	3,207,300	3,318,500	3,510,100	3,610,200
TSU McIntire-Stennis Forestry Research	179,400	183,400	189,400	193,300	196,200
<b>TSU Total</b>	<b>\$5,566,800</b>	<b>\$5,731,300</b>	<b>\$6,964,200</b>	<b>\$7,245,100</b>	<b>\$7,420,100</b>
<b>Total Land-Grant Funding</b>	<b>\$62,169,000</b>	<b>\$64,496,100</b>	<b>\$68,421,000</b>	<b>\$71,884,000</b>	<b>\$75,365,100</b>

Source: Tennessee Higher Education Commission.

## Endnotes

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- <sup>i</sup> Land-grant university FAQ. (n.d.). The Association of Public and Land-grant Universities (APLU). Retrieved from <http://www.aplu.org/about-us/history-of-aplu/what-is-a-land-grant-university/>
- <sup>ii</sup> Capacity grants. (n.d.). United State Department of Agriculture (USDA): National Institute of Food and Agriculture. Retrieved from <https://nifa.usda.gov/program/capacity-grants>
- <sup>iii</sup> Agricultural extension programs at 1890 institutions. (n.d.). United State Department of Agriculture (USDA): National Institute of Food and Agriculture. Retrieved from <https://nifa.usda.gov/program/agricultural-extension-programs-1890-institutions>
- <sup>iv</sup> Agricultural research at 1890 land-grant institutions. (n.d.). United State Department of Agriculture (USDA): National Institute of Food and Agriculture. Retrieved from <https://nifa.usda.gov/program/agricultural-research-1890-land-grant-institutions>
- <sup>v</sup> Smith-Lever Act capacity grant. (n.d.). United State Department of Agriculture (USDA): National Institute of Food and Agriculture. Retrieved from <https://nifa.usda.gov/program/smith-lever-act-capacity-grant>
- <sup>vi</sup> The Hatch Act of 1887. (n.d.). United State Department of Agriculture (USDA): National Institute of Food and Agriculture. Retrieved from <https://nifa.usda.gov/program/hatch-act-1887>
- <sup>vii</sup> The Hatch Act of 1887 (multistate research fund). (n.d.). United State Department of Agriculture (USDA): National Institute of Food and Agriculture. Retrieved from <https://nifa.usda.gov/program/hatch-act-1887-multistate-research-fund>
- <sup>viii</sup> McIntire-Stennis capacity grant. (n.d.). United State Department of Agriculture (USDA): National Institute of Food and Agriculture. Retrieved from <https://nifa.usda.gov/program/mcintire-stennis-capacity-grant>