Tennessee Hemp Team

Anni Self

Plant Certification Administrator 615-837-5313

Denise Woods

Hemp Program Coordinator 615-837-5326

Mike Studer

State Apiarist 615-517-4451

Steve Powell

State Plant Entomologist 615-837-5139

Katherine Kilbourne

State Plant Pathologist 615-767-0918

Administrative Assistance

Julia Craig

ASA II 615-837-5137 **Emily Dillahay**

ASA IV 615-837-5163 **Bonnie Connell**

ASA II

615-837-5132

Tennessee State Inspectors

https://www.tn.gov/content/tn/agriculture/farms/hemp-industry/hemp/hemp-inspectors.html





Introduction

Our Vision

For Tennessee to become a national leader in agriculture and forestry through economic advancement, innovation, and natural resource stewardship by commitment to service, family, farms, and healthy living.

Our Mission

To serve all the citizens of Tennessee by providing options for responsible use of our agricultural and forest resources, developing economic opportunities, safeguarding food and fiber, and ensuring equity in the marketplace





History of Tennessee Hemp

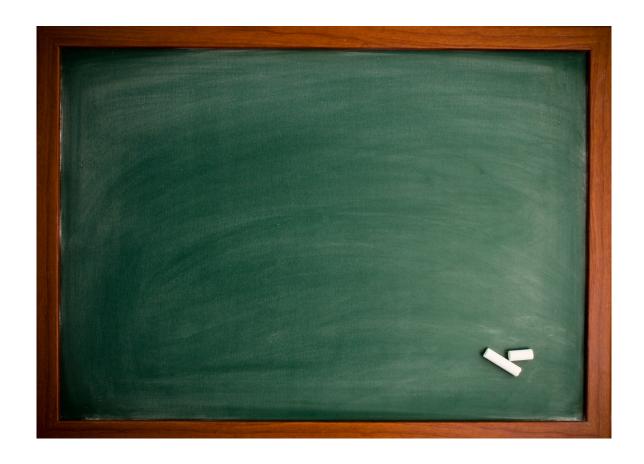
- Hemp has been an important crop throughout the history of the U.S. In 1700, it was illegal for farmers to not grow hemp.
- The history of hemp production in Tennessee dates to the early 19th century with the arrival of pioneer families.
- Tennessee's first commissioner of agriculture, Joseph Killebrew, reported that hemp was widely grown throughout Middle Tennessee.
 - Bedford, Coffee, Jackson, Marshall, Maury, Sumner and Williamson counties were particularly noted for having suitable soils for hemp production.
 - In Maury County, hemp was used for ropes and bagging for cotton.
 - In the 1870 census, Sumner County (including present day Trousdale County) reported producing 150 tons of hemp.
- Hemp production and processing declined after World War II for many reasons.
- Hemp continued to be ill-favored, being classified as a Schedule I drug in 1970.

"In response to this demand, hemp came to be one of the staple crops in Maury County, and rope walks and hemp factories were quite as common in the county as cotton gins are now," according to the report.



Hemp

For decades, Hemp in Tennessee has been a blank slate...





Hemp

... then Congress passed the **Agricultural Act of 2014**, also known as the 2014 Farm Bill, which opened the door for states to establish an agricultural pilot program to study the growing, cultivation, or marketing of industrial hemp.





Agricultural Act of 2014

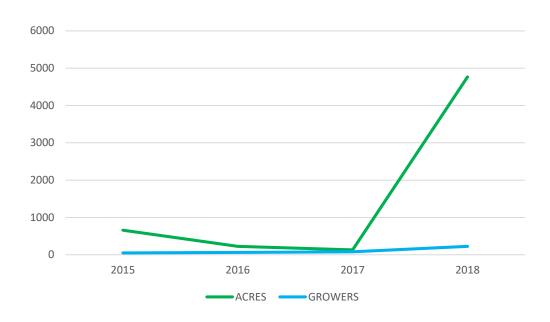
- Hemp as a possible agricultural commodity
- Public Chapter 916 became effective on July 1, 2014, creating Tennessee's
 INDUSTRIAL HEMP RESEARCH PILOT PROGRAM
 - The Department promulgated rules and issued licenses for growing hemp.
 - Hemp was cultivated for market and growth research only. No hemp plants or products could legally cross state lines.



Hemp

Hemp's emergence onto Tennessee's agricultural stage was relatively a quiet one
with only 49 licensed growers in its first year, 2015.

Hemp was slow and steady for the next two years.



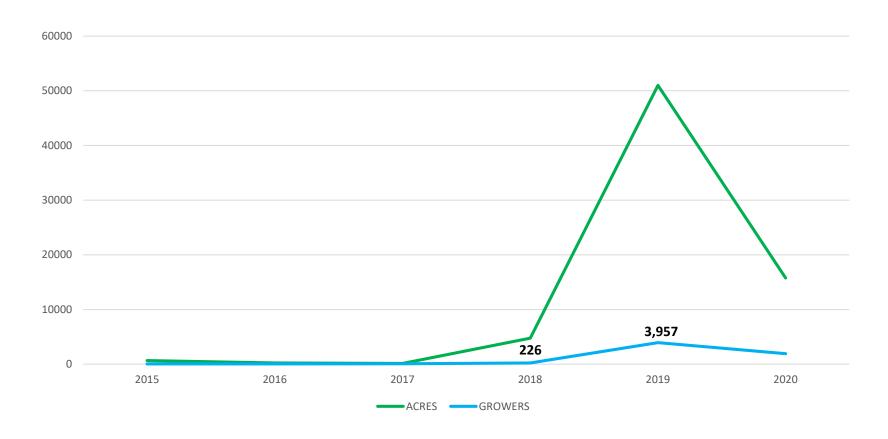


Agricultural Improvement Act of 2018

- The 2018 Farm Bill
- Section 7605: Phased out industrial pilot programs established under the 2014 Farm Bill
- Section 10113: Amended the Agricultural Marketing Act of 1946 to allow States and Indian tribes to regulate hemp production or participate in a USDA hemp regulation program
- Section 10114: Ensured the unencumbered interstate movement of hemp
- Section 12619: Removed hemp plants and hemp products, including CBD, from the Controlled Substances Act (CSA)
- Did not affect or modify rules and regulations of the federal Food and Drug Administration (FDA) or the interstate movement of articles regulated by FDA
- Other major changes:
 - Hemp farmers may now have access to crop insurance and participate in USDA programs and grants in 2020.

Hemp

With the passing of the 2018 Farm Bill, Hemp crescendoed into a whopping 3,957 growers with over 51,000 licensed acres making Tennessee Hemp Program the largest in the country.



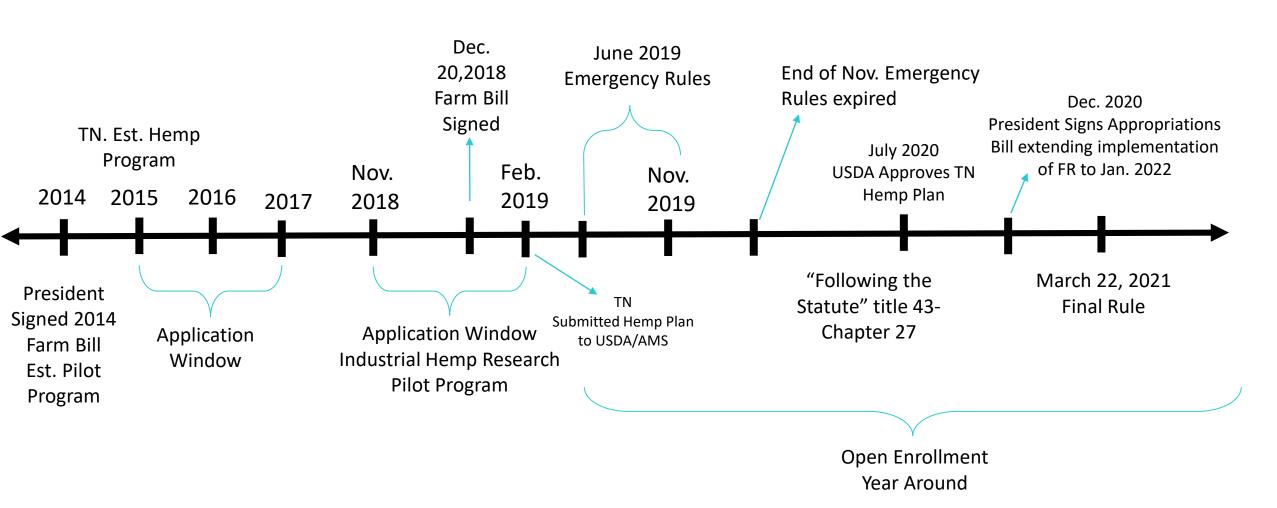


Hemp Legislative Progression

- Feb. 2014 = 2014 Farm Bill Passed
- July 2014 = TN Hemp Pilot Program established by legislature
- January 2015 = TN filed rules consistent with 2014 Farm Bill
- April 2015 = TN rules went into effect
- May-June 2018 TN emergency rule extended application period for licenses
- July 2018 = TN rules amended
- October 2018 = TN amended rules went into effect
- December 2018 = 2018 Farm Bill passed
- April 2019 = TN industrial hemp pilot program repealed, and new hemp law passed consistent with 2018 Farm Bill
- June-November 2019 = TN emergency rule repealed previous rules as required under new state law
- October 2019 = USDA promulgated as Interim Final Rule for the Establishment of Domestic Hemp Program, Interim final rule to be effective from October 31, 2020
- September 2, 2020 = TN rule and program approved by USDA and filed with state
- September 8, 2020 = USDA extended comment period and effective date of Interim Final Rule November 2021
- October 21, 2020 = TDA withdraws rule
- December 2020 = USDA again extended effective date of Interim Final Rule to January 2022
- January 15, 2021 = USDA set March 22, 2021 as effective date for Interim Rule



Regulatory Timeline



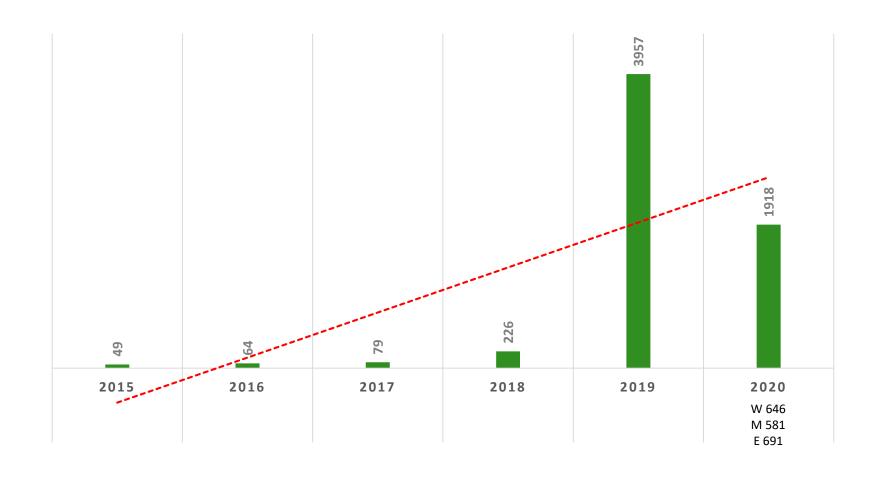


Hemp 2020

								-
		Industrial Hemp Licensed Growers 2020						
	Qty	Licensed Acres	#Less than 5 Acres (Qty)	>5 Licensed Total Acres	#of5-20 Acres (Qty)	5-20 Licensed Total Acres	# of Greater than 20 Acres (Qty)	>20 Licensed Total Acres
Total Growers	1918	15721.8	1563	2614	239	2754.3	116	10353.4
East	691	4937.6	586	977.1	70	860.8	35	3099.7
Middle	581	4574.3	478	875.2	69	729.8	34	2969.2
West	646	6209.9	499	761.7	100	1163.7	47	4284.4
			Industrial Hemp Actual Grow Areas 202					
	Total Grow Areas (Qty)	Total Grow Area Acres	Outdoor Grow Areas (Qty)	Outdoor Acres	Indoor Grow Areas (Qty)	Indoor Acres	Indoor Sq Ft.	
TN Grow Areas Total	3714	4835.6	2498	4653.9	1216	181.6	7,910,496	
East	1373	2209.7	853	2102.5	520	107.1	4,665,276	
Middle	940	727.5	692	707.5	248	20	871,200	
West	1401	1898.3	953	1843.8	448	54.4	2,369,664	
	_							

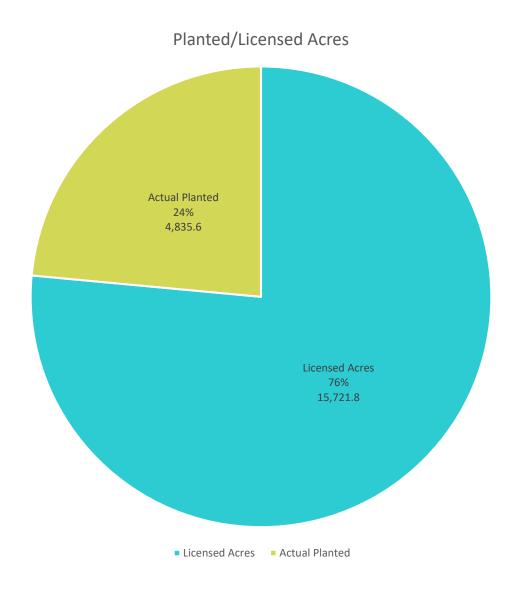


TN Hemp Growers





Hemp Acres 2020

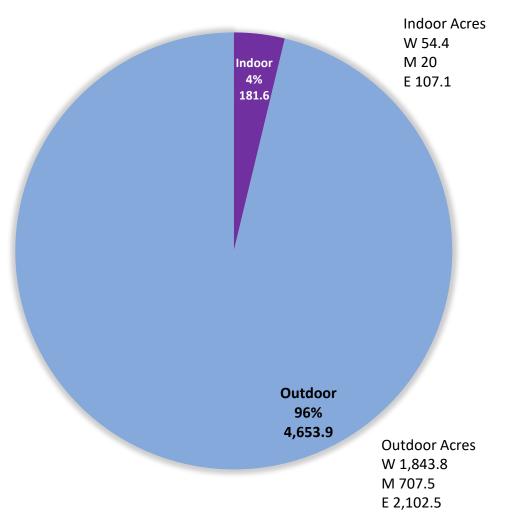




Hemp 2020 Grow Areas

OUTDOOR/INDOOR GROW AREAS

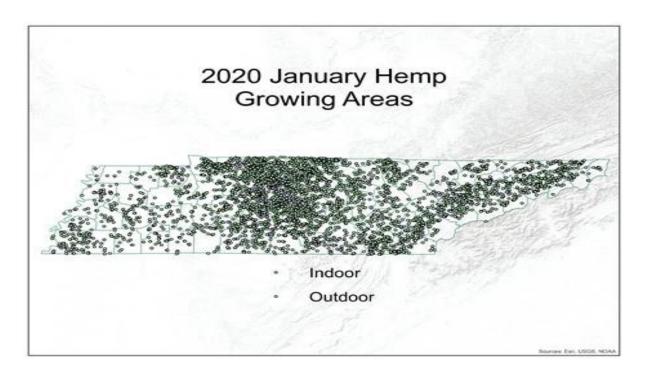




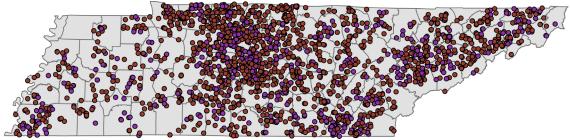




Hemp Growing Areas (Jan. 2020- Dec. 2020)



December Hemp Growing Areas 2020

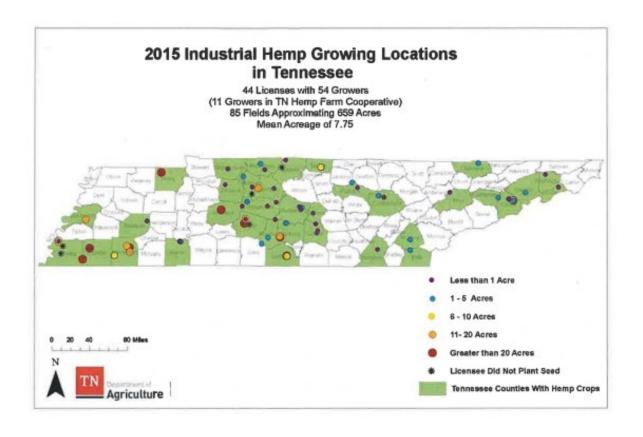


Growing Areas

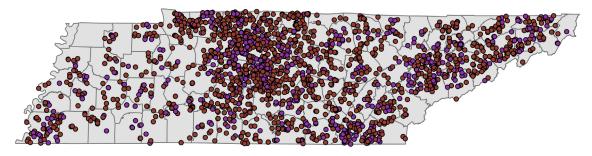
- Not Defined
- Indoo
- Outdoor



Hemp Growing Areas (2015- Dec. 2020)



December Hemp Growing Areas 2020



Growing Areas

- Not Defined
- Indoor
- Outdoor



Tech Service Lab – Hemp Sampling

# of	Samp	les

"Hot"

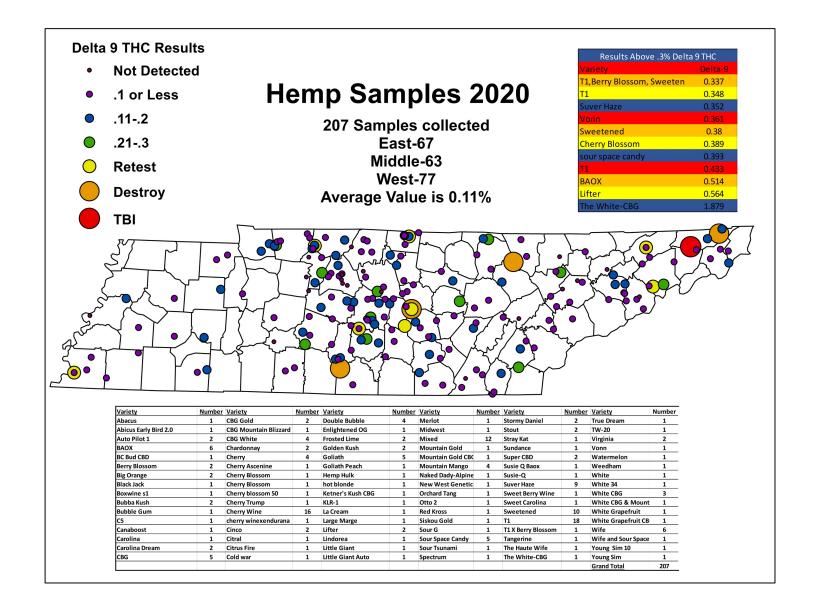
Destroyed

TBI

2015	2016	2017	2018	2019	2020
56	39	38	317	950	209
					4
					1

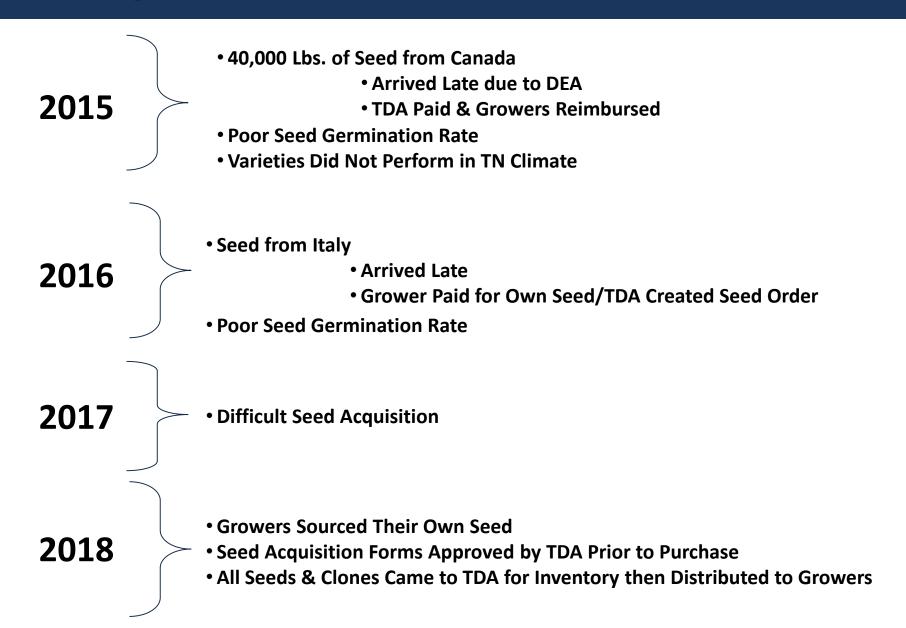


Hemp Sampling





Seed Acquisition





Movement Permits



FENNESSEE DEPARTMENT OF AGRICULTURI

SION OF CONSUMER & INDUSTRY SERVICES

ENNESSEE HEMP MOVEMENT PERMIT

ender Information:

2015 – 2018 Grower Contacted TDA for Movement Permit Approval

June 28, 2019 Launched Online Movement Permits = 2,805 issued permits

2020 = 1,568 issued permits

License Plate: T00-00V			Color: red		
Year: 2015	Make: ford	Model: f150			
Receiver Inform	mation:				
Name: misses shelton (Processor or grower)			License No.: ENY-BG ZW (Only if receiving rooted hemp)		
	1000 nowhere street				
	Street anywhere		TN		

By submitting this application for a Tennessee Hemp movement permit, I certify that the information contained in this application is true and accurate to the best of my knowledge. I agree to move hemp only as authorized herein and in conformance with state law. I understand that a movement permit is required per vehicle per day and that each cannabis plant or plant product moved not in conformity with state law may constitute a separate violation, resulting in civil penalties of up to \$1,000 per violation and possible criminal charges. I agree to accept responsibility for any violations committed by persons operating under this license.

Electronically signed by mister shelton on 10 / 30 / 2019



Hemp Pathology

Hemp Disease Samples Submitted to TDA
2020
Bot Canker
Botrytis
Curvularia Leaf Spot
2019
Rhizoctonia web blight
Phytophthora root rot

^{*}Data was not gathered prior to 2019.

2018

Disease issues for 2018 included bud rot, fungal leaf spots, root rot, southern blight, and powdery mildew.

2017

There was no report of any disease issues for 2017 and no samples were submitted.

2016

Diseases (Southern Blight, Powdery Mildew, Fusarium sp., and Curvularia leaf spot



Hemp Entomology

Hemp Insect Samples Submitted to TDA				

2018

Insects of concern for growers include: corm worm, aphids, mites, caterpillars, thrips, white flies, slugs, grasshoppers, fungus gnats, and a variety of beetles.

2017

Pests of concern for growers include: insects (fungus gnats, stink bugs, cutworms,

Japanese Beetles, flea beetles, cabbage worms and aphids) and wildlife (deer and doves).

2016

Pests of concern for growers include: insects (cutworms, cabbage worms and aphids), wildlife (deer, horses, turkey and doves).



Hemp Community Outreach

- From the beginning, the Hemp Program has required extensive public outreach for many reasons.
 Hemp is an inclusive and diversified program drawing interest across communities, from experienced farmer to folks who had never grown anything.
- Programs were developed and presented across the state in conjunction with The University of Tennessee to meet the needs and answer the questions of growers.
- The attendance to these meetings reached over 4,500. Interest in hemp remains strong today because of its sustainability, environmental and commercial possibilities.



Plant Cert. Employees

Administrative
Coordinator
Inspectors

	2015	2016	2017	2018	2019	2020
e					1	2
					1	1
					4	4



2021 Hemp Program

- 2021 Operate as we did last year
 - at least one inspection and sampling for the year/one variety
 - only reporting Delta 9 THC
 - 30-day sampling window
 - State contracted with 3rd party to sample (DEA approved)
 https://www.hemptesthats.com/
- Looking to 2022
 - Begin January 2022, USDA Final Rule
 https://www.ams.usda.gov/rules-regulations/hemp
 - Total THC
 - Every variety sampled/Performance Based Sampling
 - Work with FSA

