# Industrial Hemp in North Carolina



Steve Troxler, Commissioner of Agriculture North Carolina Department of Agriculture & Consumer Services

# Quick Review: What is hemp

- > Cannabis sativa L. with a delta-9 THC level not to exceed 0.3%
- ➤ Used for fiber, as a food/grain, for CBD and other cannabinoids.
- ➤ North Carolina market dominated by CBD at this point.
- >Seed & Clones sourced at first overseas; now mostly domestic and much from within NC
- ➤US grew hemp in the 30/40's as a wartime effort.
- Some projections show industrial hemp markets exceeding that of recreational marijuana in less than 5 years but the future is uncertain.

# Quick Review: Role of NCDA & NCSU

- > NCDA:
  - ➤ Review applications
  - ➤ Make amendments
  - **≻**Outreach
  - **≻**Compliance Testing
  - ➤ Register Processors
  - ➤ Soil Testing
  - **≻**Agronomists
  - **≻**Other

- **≻**NCSU
  - **≻**PDIC
  - **≻**Outreach
  - **▶** Extension
  - **≻**Consumer Services

# Establishment of the Hemp Program

#### • 2014 Farm Bill

- Allows State Departments or Universities to cultivate but...
- Must be coupled with a research purpose
- Currently operating under these established rules

#### • 2018 Farm Bill

- Moves industrial hemp from DEA oversight to <u>USDA</u> oversight.
- Provides for hemp to be treated like any other Agricultural Commodity.
- The USDA will have to create a program structure.
- States will submit their plan to be in compliance with USDA's program.
- There remains a requirement for a license, permit, or registration.
- Language allowing testing methods that decarboxylate or other reliable methods.
- Allows transportation of hemp by currier/mail services.
- 2019 USDA Interim Final Rule\*
- Senate Bill 315\*

# Industrial Hemp & Law

- Legally bound to follow the rules set forth in the statutes.
- Violations of your license can result in civil or criminal penalty
- Required to disclose all locations for growing and storage
- Required to control volunteers
- Required to update the NCDA

- Required to disclose criminal convictions
- Felonies can prohibit involvement in program
- NCDA & LEO allowed on premises without warning.
- Legally must qualify as a farmer through tax documentation
- Required to alert us at flower initiation for testing.

# Common Hemp Law Issues

- Transportation
  - Personal Vehicle
  - USPS, FedEx, UPS, other logistics services
- Complaints
  - Smell
  - Lights
  - Report of Marijuana
- Theft
- Trespassing
- Hemp Destructions
- Processors & Stores

## Consumer Needs

### ➤ Likely questions include:

- ➤ How do I get a license
- ➤ How do I amend my license
- ➤ How do I schedule testing
- ➤ Where can I find more information
- ➤ Where do I sell my hemp

#### > Basic resources:

- www.ncagr.gov/hemp/
- https://industrialhemp.ces.ncsu.edu
- industrialhemprequests@ncagr.gov

## What's on the Web?

#### > NCDA Website:

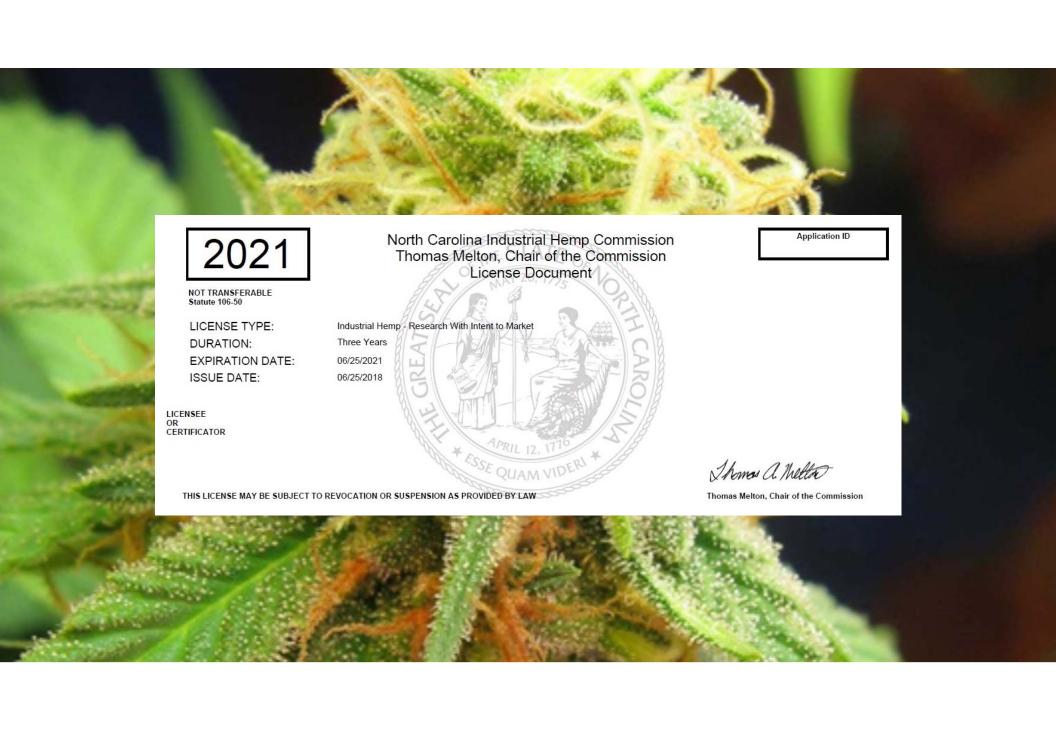
- Application
- > Rules
- Processor Registration
- > FAQ's
- > Sample Request & Other Forms

#### >NCSU Website:

- ➤Clone/seed sources (not vetted)
- ➤ Growing & other tips
- **≻**Hemp Connections
- ➤ Meeting Announcement & Periodic Articles

## Hurdles to licensure

- \*Applicants shall disclose the date and location of any conviction of any criminal offense (other than misdemeanor traffic offenses)
- committed in any jurisdiction. Failure to comply with this requirement in a complete and truthful manner shall be grounds for denial, suspension, or revocation of a permit, as may be determined by the Industrial Hemp Commission.
- \* The following applicants shall not be granted a permit:
- (1) Any applicants with any felony conviction in the prior 10
- years or; or
- (2) Any drug-related or controlled substance felony conviction
- at any time.
- (3) Applicants that fail to complete the application process...



## Hemp Testing

- Legal obligation of grower to alert us
- Inspector starts dialogue with grower so as to sample at appropriate maturity
- Sample buds from top 1/3 of the plant
- Numerous cuttings from field/greenhouse to make composite sample
- Samples dried, ground, homogenized, then extracted and tested
- We look at delta-9 THC after decarboxylation has occurred
- Failed tests get free confirmatory test
- 2<sup>nd</sup> failed test grower is given optional retest if material is unharvested
- Failed 3<sup>rd</sup> test results in destruction

# 2017, 2018, & 2019 Sample Results

➤ 2017: 135 Tests; 14 Fails; approx. 10% fail rate

➤ 2018: 437 Tests; 47 Fails; approx. 10% fail rate

➤ 2019\*: 2247 Tests; 250 Fails; approx. 10% fail rate

➤ Why do they fail? Poor genetics, stress, other



# Risks in the Hemp Industry

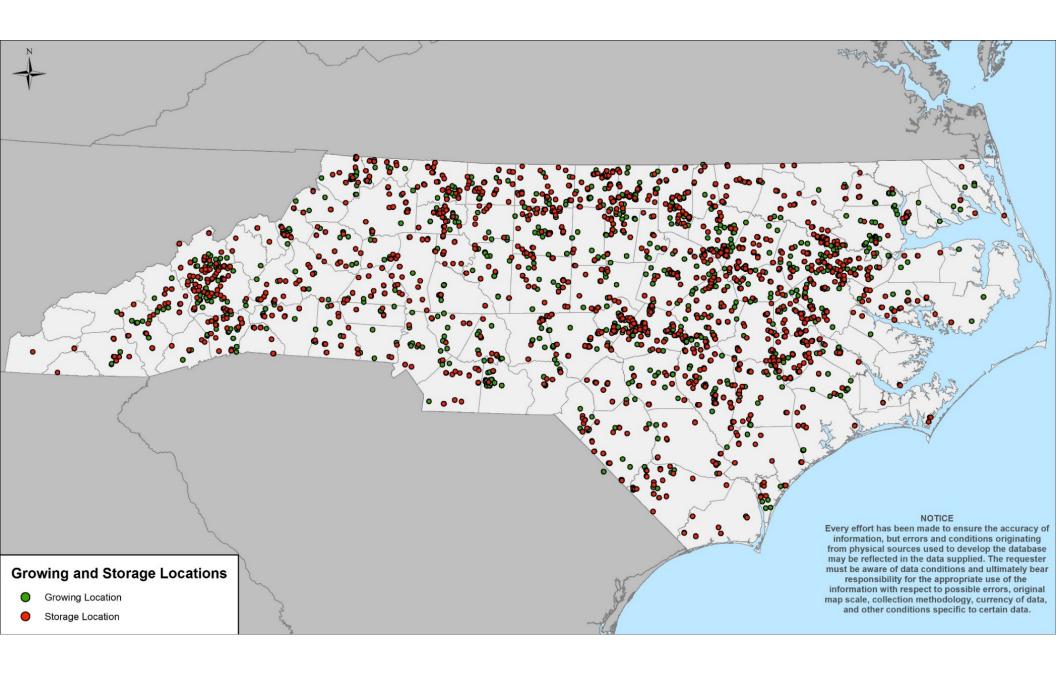
- Growing hemp is expensive and labor intensive.
- Hemp genetics do not have the years of testing that other crops have, especially in our climate.
- Hemp has insect pests, gets disease, and doesn't like wet feet.
- If you fail your THC compliance tests your crop will be destroyed.
- If your crop is healthy and passes testing, your end product may not be marketable if THC content goes high after State testing or due to pesticide/heavy metal residues, or other factors.
- Hemp can be difficult to dry especially in regards to eliminating/preventing mold issues.
- Dynamic law & regulation base

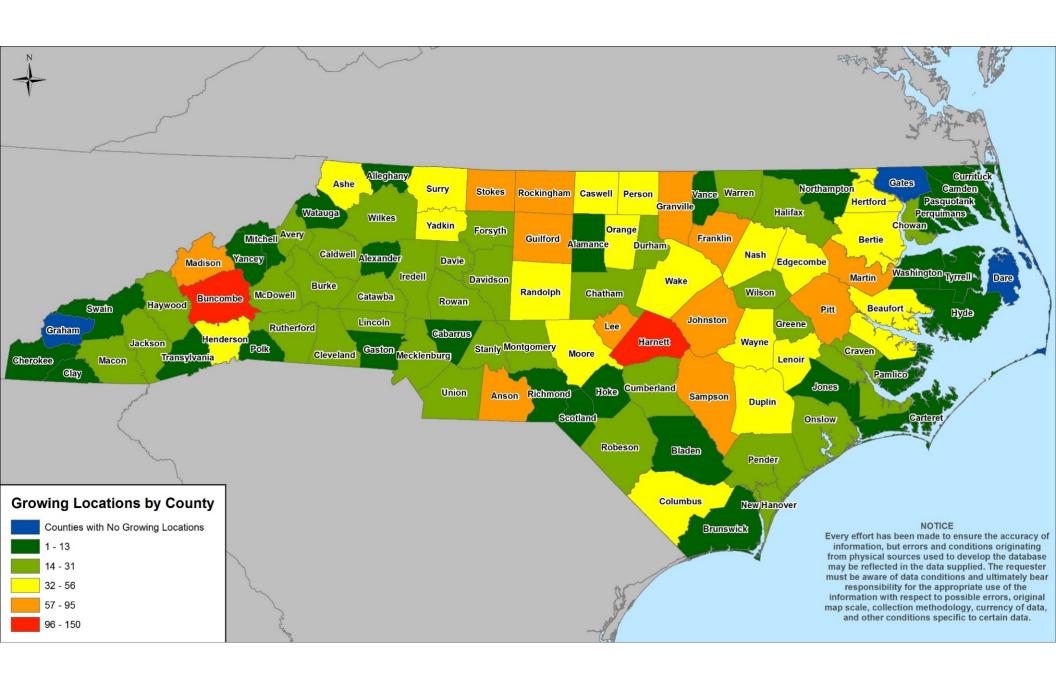
# **Dynamic Law & Regulation**

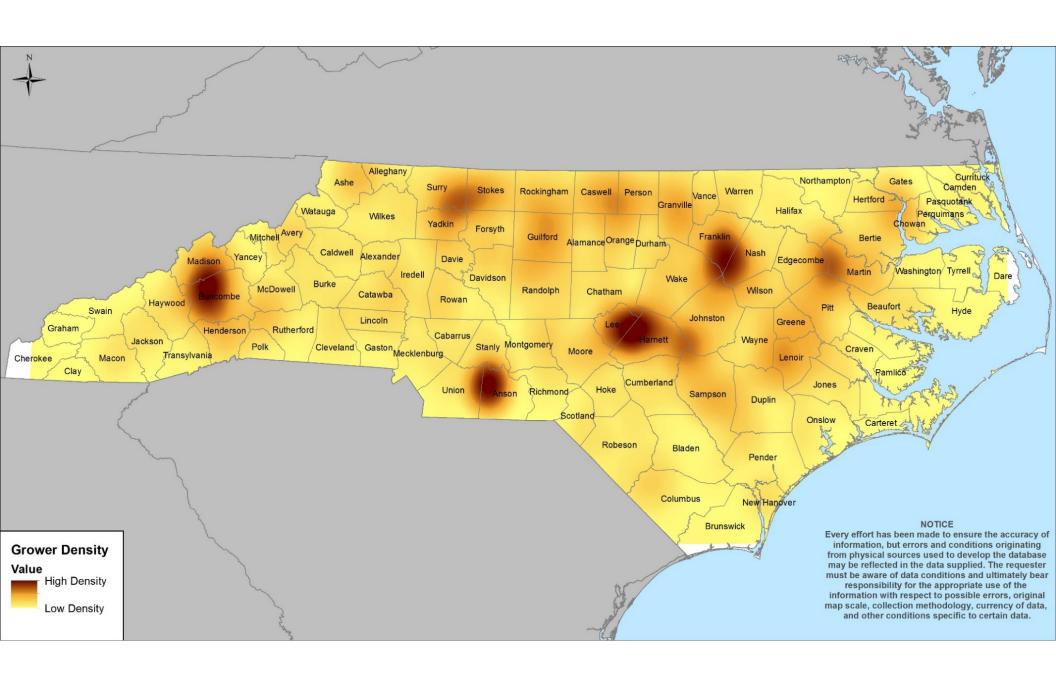
- Intent is to be under pilot program through 2020 growing season; October 30<sup>th</sup>, 2020
- Senate Bill 315 could potentially change that; contains smokable hemp ban; not currently law
- Come November 1<sup>st</sup> 2020 pilot program license MAY not be valid any longer; reapplication into new program could be required; hoping to transfer licenses into new program
- 2021 will see an entirely new rule set governing hemp; many similarities but some key differences; USDA interim rule in stone for 2 years hence the rule changes; changes after?
- TAKE HOME MESSAGE: Still under IHPP; same testing; same protocols; until further notice

# **Program Stats**

- 1404 Licensed Industrial Hemp Growers
- 17,589 Licensed Field Acres
- 6,900,337.59 Licensed Square Feet of Greenhouse production
- 989 registered processors







# **Program Contacts**

Phil Wilson – Director, Plant Industry Division 919-707-3732 (Office), 919-920-1316 (Cell) or phil.wilson@ncagr.gov

www.ncagr.gov/hemp/

NCSU - industrialhemp@ncsu.edu; https://industrialhemp.ces.ncsu.edu

Paul Adams, Industrial Hemp Program Manager, Seed and Fert. Section 919-707-3735 (Office), 910-604-1276 (Cell)

Paul.Adams@ncagr.gov

industrialhemprequests@ncagr.gov

www.ncagr.gov/hemp/

