



PRODUCER ORIENTATION

Industrial Hemp Program

Updated April 2022

Agriculture.Mo.Gov

Welcome Registered Producers!

This document will cover:

- Communication & resources
- Pre-plant considerations
- What is a “lot”?
- Reporting requirements
- Voluntary disposal
- Sampling & testing
- Destruction
- Inspections
- Non-compliance
- Renewals
- And much more!

Lots of information!

Take your time & revisit as needed



Missouri Department of Agriculture

COMMUNICATION WITH MDA



Industrial Hemp Program

General Contact: (Email is best contact method)

Email: hempprogram@mda.mo.gov

Office: (573) 522-0351

Registered/Permit/Certification Reporting Contact:

Email: reporting.hemp@mda.mo.gov

Communication from MDA

- Email is primary method of communication
 - Please let us know if you need materials *mailed* instead
 - Ensure the email(s) you used on your application are frequently checked throughout the year (even if you do not plant anything)
- Read your emails - if we send it, it is important!

Program Emails

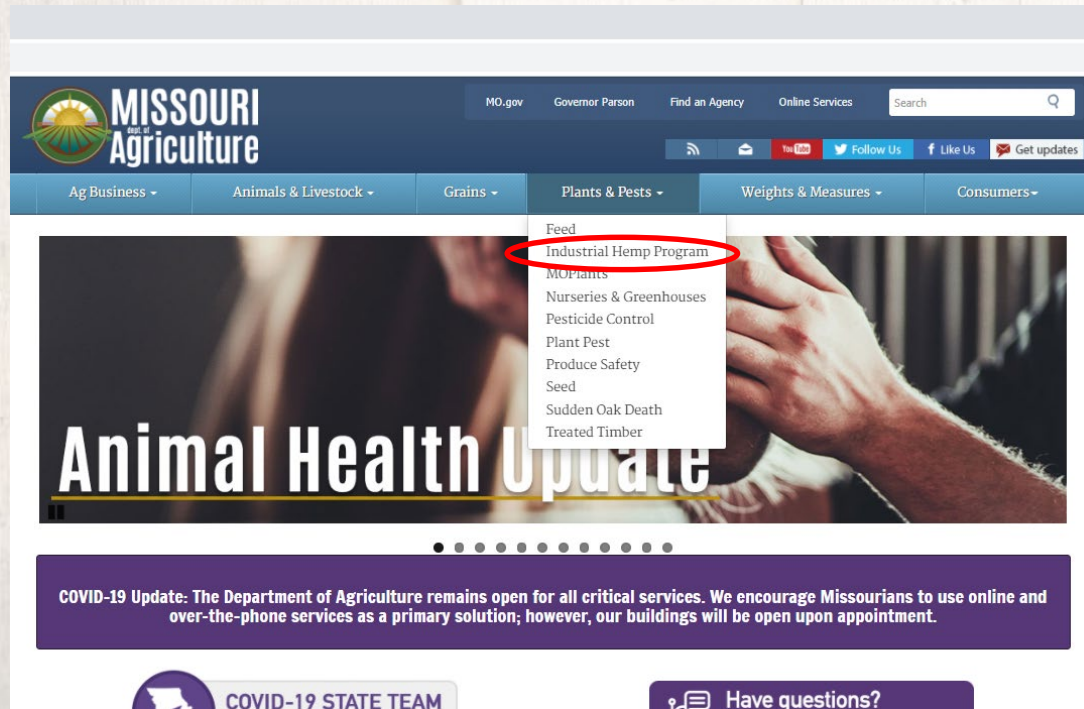
- Emails may come from:
 - HempProgram@mda.mo.gov
 - Reporting.Hemp@mda.mo.gov
 - Or, our GovDelivery subscription list
 - mda@momda.dmarc.public.govdelivery.com

Add each to your “approved senders” lists to ensure delivery to your inbox

Questions?

- Program website has many resources
 - Including links to external resources & many guidance documents to help answer frequently asked questions
- If you have a question, ASK US!
 - Do not rely on others to give you accurate regulatory information about this evolving industry; and remember, every state is different!

MDA Website



Agriculture.mo.gov

- “Plants & Pests” tab
- Choose “Industrial Hemp Program”

Program Website

Industrial Hemp Program

The Missouri Department of Agriculture's Industrial Hemp Program regulates the production and sales of viable industrial hemp in accordance with federal and state law. Viable industrial hemp is any industrial hemp that is living or capable of living, including but not limited to plants, clones, seedlings and seed.

The Program issues registrations and permits, and certifies samplers for Missouri's industrial hemp industry. A *Producer Registration* is for persons looking to produce viable industrial hemp. An *Agricultural Hemp Propagule and Seed Permit* is for persons looking to sell, distribute or offer for sale viable industrial hemp including but not limited to clones, seedlings and seed. An *Industrial Hemp Sampler Certification* is for persons looking to collect compliance samples for Registered Producers. The Program does not regulate non-viable industrial hemp, including publicly marketable products, and does not offer a processor, transporter or handler license. Questions about products for human consumption may be directed to the **Missouri Department of Health and Senior Services**.

Missouri State Plan – Approved by USDA in Sept. 2020 📄

Missouri Industrial Hemp Statute: RSMo. 195.740 – 195.773

Missouri Industrial Hemp Program Rules: 2 CSR 70-17.010-17.130 📄

- Applications
- Registered Producers
- Permit Holders
- Certified Sampler
- Frequently Asked Questions
- Additional Resources

Plants & Pests

- Plants & Pests
- Feed
- Industrial Hemp
 - Applications
 - Registered Producers
 - Permit Holders
 - Certified Sampler
 - Frequently Asked Questions
 - Additional Resources
- Integrated Pest Management
 - Noxious Weeds
- Nurseries & Greenhouses
- Pesticide Control
 - Certification & Licensing
 - Database Searches
 - Endangered Species
 - Enforcement & Inspections
 - Registering Pesticides
 - Worker Protection

More
information
available from
these menus

<https://agriculture.mo.gov/plants/industrial-hemp/>

Agriculture.Mo.Gov



Registered Producers Tab

- ***Main information hub for producers***
 - Become familiar with this website & check it often
 - Includes:
 - Reports/forms
 - Additional guidance & “How to” documents
 - Summary of requirements/deadlines
- Available from menus pictured on previous slide, or:
<https://agriculture.mo.gov/plants/industrial-hemp/registered-producer.php>

Permit Holders Tab

- ***Main information hub for permit holders***
 - Become familiar with this website & check it often
 - Includes:
 - Reports/forms
 - Additional guidance & “How to” documents
 - Summary of requirements/deadlines
- Available from menus pictured on previous slides, or:
<https://agriculture.mo.gov/plants/industrial-hemp/permit-holder.php>







Additional Resources Tab

<https://agriculture.mo.gov/plants/industrial-hemp/resources.php>

Includes a variety of resource types:

- MDA regulatory resources
- Federal resources
- Missouri-specific resources
 - University of Missouri Extension
 - Lincoln University Extension
- Resources from other states' University/Extension services

MDA Industrial Hemp Program - Guidance Series

- GS2001 – Mapping Guidelines 
- GS2002 – How to Create a Map 
- GS2003 – Farm Service Agency (FSA) Guidance 
- GS2101 – How to Complete the MDA Planting Report 
- GS2102 – Origin Documentation 
- GS2103 – Certificate of Analysis Guide 

Federal Resources

- USDA Federal Hemp Program Page
- USDA Programs for Producers
- Farm Service Agency (FSA) Office Locator
- AAFCO Guidelines on Hemp in Animal Food  
- FDA Regulation of Cannabis and Cannabis-Derived Products, Including Ca

Missouri Higher Education Resources

- University of Missouri Extension 
 - Industrial Hemp Pesticides for Use in Missouri 
 - Report: Missouri Industrial Hemp Production 
 - Report: Value Chains for the Missouri Industrial Hemp Industry 



COMMUNICATION WITH OTHERS



Other Resources

- For *non-regulatory* questions, consult Missouri Extension staff from:

Lincoln University

<https://bluetigerportal.lincolnu.edu/web/hemp-institute/home>

University of Missouri

<https://extension.missouri.edu/programs/industrial-hemp/>

Non-regulatory topics may include production recommendations, pest or disease identification, harvest methods, etc.

Proactive Communication

- Prior to planting, Registered Producers are highly encouraged to have an **open line of communication** with:
 - Law enforcement (especially local)
 - Neighbors

Public Listing

- License information is publicly available

<https://agriculture.mo.gov/plants/industrial-hemp/registrations-and-permits.pdf>

- ‘Approved Operations’ list online includes:
 - License number
 - Individual or business name (depending on application)
 - Business city, state, zip code
- *Other information available through Missouri Sunshine request*
 - You may receive communications from suppliers, buyers, laboratories, consultants, etc.



PRE-PLANT CONSIDERATIONS



Site Considerations

- **Can produce anywhere within your registered parcel**
 - *Except:* production cannot occur within a residential structure, including starting seedlings, rooting cuttings, etc.
- No security requirements (fencing, cameras, signage, etc.)
- No zoning or setback limits
- **But check with your local, city, or county officials for any requirements they may have**

Sourcing Seed and Propagules

- **Can be purchased from:**
 - Missouri Agricultural Hemp Propagule and Seed Permit holder
 - Supplier with applicable hemp license in another state/territory
 - Supplier approved by USDA for international import

Variety Selection

- No approved varieties list or other requirements (such as AOSCA Certified seed) – but **DO YOUR HOMEWORK!**
- **Keep your “origin documentation”**
 - Such as COAs (from supplier), invoices, yield or THC ‘guarantees’, etc.
 - More information available in [GS2102: Origin Documentation](#)

Other Considerations

- **You do not have to plant**
 - “No plant” notification required by Aug 1, if applicable
<https://stateofmissouri.wufoo.com/forms/industrial-hemp-no-plant-notification/>
- **Do not put more in than you are willing to lose**
 - Destruction & unharvestable crops are very common
 - Insurance options are limited
 - Ensure any profit estimate resources you are basing decisions on reflect *accurate/current market prices*



WHAT IS A “LOT”?



First, What is a “Variety”?

- A “**variety**” or “**strain**” is a subcategory of a plant species with the same unique traits

Ex: *Cannabis sativa* ‘Cherry Blossom’

Genus

Species

Variety



<https://www.washingtonpost.com/local/marijuana-news/east-coasts-first-outdoor-commercial-cannabis-harvest-underway/2019/10/07/86ff7b38-854e-11e9-a331-2f1246666666/>

What Is A “Lot”?

A “**lot**” is a group of plants of the same variety or strain grown in a continuous area



<https://www.pexels.com/photo/bird-s-eye-view-of-river-in-middle-of-green-fields-1483880/>

Identifying Your Lot(s)

Once you have planted, you will assign each lot a “Lot ID” name on the *MDA Planting Report*.

This will be used to reference during sampling and testing (more on this in later slides).

REGISTRATION #			NAME			DATE COMPLETED
LOT ID ¹	VARIETY	PLANTING ² DATE(S)	AMOUNT PLANTED ³	GPS OF FINAL PLANTING AREA		NOTES
				LAT (XX.XXXXX)	LONG (-YY.YYYYY)	
			<input type="checkbox"/> ACRE <input type="checkbox"/> SQ FT			
			<input type="checkbox"/> ACRE <input type="checkbox"/> SQ FT			
			<input type="checkbox"/> ACRE <input type="checkbox"/> SQ FT			



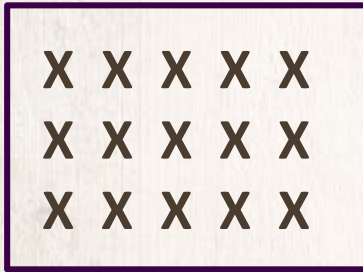
Note: MDA Planting Report was previously titled “Lot Identification Form”

Agriculture.Mo.Gov

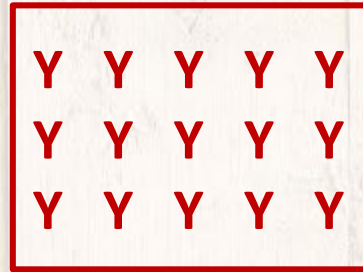


Example of Lots

Lot 1



Lot 2



Individual letters represent plants

Lot 1 = Cherry Blossom

Lot 2 = Grape Soda

Lot 3 = Futura 75



Lot 3

3 lots; each must be separated and labeled in the field

Clear Separation of Lots

PREFERRED METHOD

Clear Separation & Grouping

X X X X X
X X X X X
X X X X X

Y Y Y Y Y
Y Y Y Y Y
Y Y Y Y Y

Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z

NOT RECOMMENDED

Mixed Rows

X X X X X X X X X X X X X X
X X X X Y Y Y Y Y Y Y Y Y Y
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z
Z Z Z Z Z Z Z Z Z Y Y Y Y Y Y Y
X X X X X X X X X X Y Y Y

Impacts of “Lot”

- Each lot requires its **own pre-harvest compliance sample** and test
- All plants within a lot must be **harvested within 30 days** after compliance sampling
 - Regardless of if your test results are returned yet

Size of a “Lot”

- There is no minimum or maximum size per lot
- After your planting is broken down by variety and continuous area, you can break down the lots further if desired
 - Consider the pros and cons of lot sizes

Example

Lot 1

X	X	X	X	X
X	X	X	X	X
X	X	X	X	X

Lot 2

Y	Y	Y	Y	Y
Y	Y	Y	Y	Y
Y	Y	Y	Y	Y

Can be additionally subdivided if desired, even if the same variety

Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z
Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z	Z

Lot 3a

Lot 3b

Mitigating Risk

- Large lots may be broken into smaller portions to mitigate risk

Example: A 10-acre field of the same variety is broken into ten 1-acre lots & sampled separately. When the results are returned, 8 out of 10 lots “pass” the THC test, but 2 do not. Therefore, only the 2 “fail” lots will face remediation/destruction (rather than all 10 acres).*

✓	✓	✓	X	✓
X	✓	✓	✓	✓

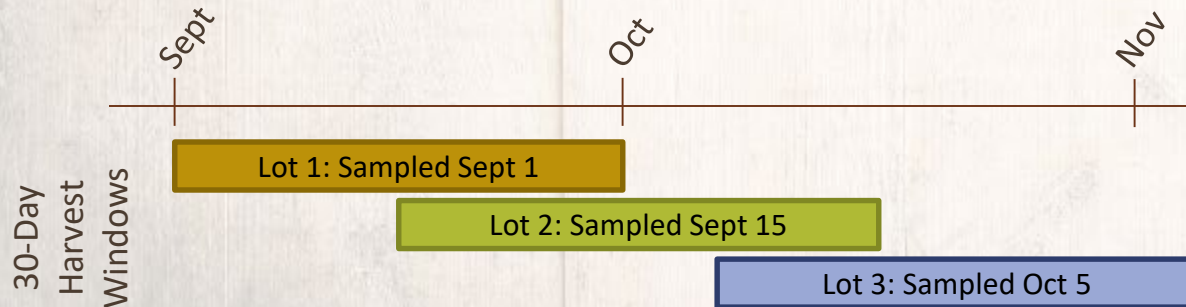
May also consider this concept to separate unique areas, such as a low spot, on a hill, next to the road, etc. *Lot sizes do not have to be even.*

*Lots must be clearly identifiable and not commingled.

Staggered Harvest

- Lots may be broken into smaller portions to spread out harvest; plan ahead, but can be done later in season too

Example: A 3-acre field of the same variety is broken into three 1-acre lots, with staggered sampling to stretch the overall harvest window to allow for sufficient labor.



Clear Separation & Labeling



- **Clear separation & labeling** of lots is imperative to compliance
 - Especially if one of your lots comes back “hot” (>0.3% total THC)
 - If lots are commingled or not clearly identifiable, destruction orders *may include other lots*
 - Throughout production, harvest, drying, storage, etc.

Range of Acceptable Labeling Options





REGULATORY REQUIREMENTS REPORTING



Reporting

- **“No Plant” notification**
- **Planting Report**
 - MDA
 - FSA
- **Other Reports**
 - Lot Report
 - Distribution & Sales Report
 - Annual Report



Planting Reports

- **Did not plant?**

- “No Plant” notification due Aug 1 (will be open June 1)

- <https://stateofmissouri.wufoo.com/forms/industrial-hemp-no-plant-notification/>

- **Did plant?**

- Submit *Planting Reports* to MDA and FSA

- (See next slides)

MDA Planting Report

- Report to Missouri Department of Agriculture (MDA) **within 30 days after planting**
 - Plantings of *any size* and *for any purpose* must be reported
 - See [GS2101: How to Complete the MDA Planting Report](#)
- Email submission preferred
 - Reporting.hemp@mda.mo.gov

MDA Planting Report

- Form(s) & “how to” guide available on the Registered Producers website tab
 - Guide covers how to name lots, what “planting” means, etc.
 - Some updates for 2021 - review carefully if returning producer
- <https://agriculture.mo.gov/plants/industrial-hemp/registered-producer.php>



REGISTRATION #			NAME		DATE COMPLETED	
LOT ID ¹	VARIETY	PLANTING ² DATE(S)	AMOUNT PLANTED ³	GPS OF FINAL PLANTING AREA		NOTES
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			<input type="checkbox"/> ACRE <input type="checkbox"/> SQ FT			

FSA Planting Report

- **Farm Service Agency (FSA)**
 - Separate agency & reporting requirement from the MDA Planting Report
 - Set up account ASAP (if you do not already have one)
 - Contact your local FSA office for reporting details
 - Reporting deadlines will vary based on your operation and/or participation in other USDA programs

<https://www.farmers.gov/service-center-locator>

Other Reporting: Lot Report

- **Lot Report**
 - Modeled as a crop notebook
 - One for each lot
 - Record of planting, sampling, testing, & harvest
 - Not submitted to MDA unless requested directly, but must be completed as you go throughout season
 - **Will be reviewed upon inspection** (including previous years' crops) – regulatory requirement

Other Reporting: Distribution & Sales Report

- **Distribution & Sales Report**
 - Record of sales transactions
 - Only required for sales/distribution of *viable* hemp (such as seeds & clones); this action requires a permit
 - Not submitted to MDA unless requested directly, but must be completed as you go
 - **Will be reviewed upon inspection** (including previous years' sales)

Other Reporting: Annual Report

- **Annual Reports**
 - Basic summary of activities
 - Total acres planted, harvested, destroyed, etc.
 - Instructions provided each fall



VOLUNTARY DISPOSAL



Voluntary Disposal

- Lots (or portions of lots) may not be harvested for a multitude of reasons, including pest or disease damage, flood or hail damage, poor performance, undesired preliminary test results, lack of labor to harvest, etc.



This is called **“voluntary disposal”**

Entire Lot – Voluntary Disposal

- If an **entire lot** is “voluntarily disposed of” AFTER you’ve reported planting:
 - Notify program staff by email as soon as practical
 - Reporting.hemp@mda.mo.gov
 - Include this result in your Annual Report totals (due in November)
 - Ex: 5 acres planted, 0 acres harvested, 5 acres voluntary disposal
 - Still keep required records of this lot
 - Planting Report, Lot Report, origin documentation, etc.
 - *Absolutely no portion of this lot may be sold or distributed*

Portion of Lot – Voluntary Disposal

- If a **portion of a lot** is “voluntarily disposed of” **AFTER** you’ve reported planting:
 - Not required to notify the program during the season
 - However, include this result in your Annual Report totals (due in November)
 - Ex: 5 acres planted, 4 acres harvested, 1 acre voluntary disposal
 - Make applicable notes in your Lot Report also
 - Use your best judgement for reporting threshold (or ask us!)
 - Normal cultural practices that result in a minor loss (such as rogueing males) are not necessary to report as voluntary disposal

Voluntary Disposal

- Any lot or portion of lot that is 'voluntarily disposed of' must be destroyed as if it was ordered for destruction
 - **Rendered unusable and non-retrievable**
- Methods include mulching, chipping, chopping, plowing, disking, etc. and burning (if allowed)



Voluntary Disposal

- Note: designating a lot or portion of a lot as voluntarily disposed of may result in a site inspection or other additional verification





CROP MONITORING

PRELIMINARY TESTING



Monitoring Cannabinoids

- It is ***highly recommended*** to have preliminary sampling & testing done in the weeks leading up to your intended harvest
 - Ex: Intended harvest is Oct 15; start preliminary testing in late August, & continue through September
- Cannabinoids can change significantly *in a matter of days*; careful monitoring can help prevent surprises at harvest
 - Includes *all* types of industrial hemp – floral for CBD, floral for CBG, fiber, grain, seed, etc.

Who Can Sample/Test?

- Preliminary “unofficial” samples can be **collected by anyone** (including producers, their employees, CIHS)
 - Recommended to still follow MDA Sampling Protocol
- Preliminary “unofficial” testing can be conducted at **any laboratory***
 - Recommended to utilize same laboratory you will use for compliance tests

Preliminary Test Results

- **Do not submit your test results (Certificates of Analysis, or COAs) for preliminary samples to MDA**
 - When possible, include the word “preliminary” on your lab order forms to prevent confusion
 - I.e., Batch Name = “Lot A1 Preliminary Week 7”
(will likely be listed on the COA itself)



REGULATORY REQUIREMENT COMPLIANCE SAMPLING



Compliance Sampling

- All industrial hemp lots are required to have compliance samples collected prior to harvest
 - Yes, this includes industrial hemp intended for fiber, grain, seed, flower, oil/extraction, etc.
 - Yes, this includes all sizes of operations/lots (even one plant!)
 - Yes, this includes commercial & non-commercial operations

Who Collects Compliance Samples?

- Compliance samples must be collected by a **Certified Industrial Hemp Sampler (CIHS)**
 - Third-party individuals who are hired by producers
 - *Not* employees, representatives, inspectors, or contractors of MDA
 - CIHS cannot collect samples for registrations:
 - In their name
 - In their employer's name
 - In which they are a key participant

Certified Sampler Requirements

To become certified:

- Training course
- Pass exam (80%+)
- Application & fee

To maintain certification:

- Maintain compliance
 - Including but not limited to collecting compliance samples in accordance with MDA Sampling Protocol
- Submit records annually
- Annual renewal & fee

Sampling Services

- MDA *does not* arrange sampling services
 - Producers may contact the samplers, or vice versa
- List of Certified Samplers available online
 - Includes phone and email
- Recommended to arrange appointment 30 days in advance to secure your date

Sampling Protocol

- The full MDA Sampling Protocol is available online; these slides are a summary



MISSOURI DEPARTMENT OF AGRICULTURE
PLANT INDUSTRIES DIVISION
INDUSTRIAL HEMP PROGRAM

SAMPLING PROTOCOL

Updated March 25, 2021 – Effective after USDA Approval on May 25, 2021

The Missouri Department of Agriculture anticipates continued regulatory changes in the coming years as state and federal rules are revised. Some of these changes may be reflected in procedures outlined in this document.

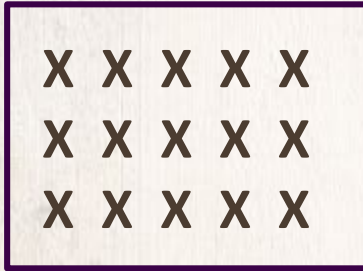
PRE-HARVEST COMPLIANCE SAMPLING

All industrial hemp lots must be sampled within **thirty (30) days prior to harvest** by a Certified Industrial Hemp Sampler. All compliance samples must follow this Sampling Protocol.

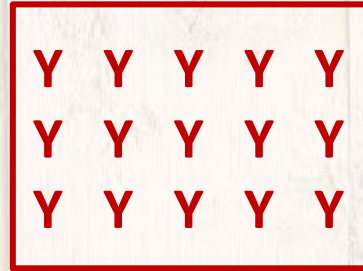


Compliance Sampling

Lot 1



Lot 2



Prior to harvest, each lot must have an ***official compliance sample*** collected

Example:

1 sample for Lot 1

1 sample for Lot 2

1 sample for Lot 3



Lot 3

Composite Samples

Each sample is actually a *composite* sample, comprised of several “cuttings” from multiple plants within the lot to create a *representative* sample



Sample Size

- The size of your sample depends on lot size
 - Larger lot = larger sample
 - Ex: ½ acre lot = minimum* of 6 cuttings
 - 1 cutting each from 6 different plants throughout the field
 - Ex: 5 acre lot = minimum* of 21 cuttings
 - 1 cutting each from 21 different plants throughout the field
 - Details are available in the Sampling Protocol

*You may choose to have the sampler collect more cuttings, but not less

Duplicate Samples

- You may choose to have your Certified Sampler create a “**duplicate sample**”
 - Certified Sampler can either:
 - Recollect a new compliance sample (go through the field again); or
 - Evenly split the sample already collected ($\frac{1}{2}$ in one bag, $\frac{1}{2}$ in another)
- Duplicate sample can only be used if original sample is lost in the mail or is otherwise unusable by the laboratory
 - Infrequent occurrence, but *has happened!*
- Only the producer (or a key participant of the registration) can retain the duplicate sample
 - Keep in climate-controlled storage to maintain quality

Shipping

- Anyone (usually the producer or the sampler) can ship or deliver the sample to the laboratory
 - Sampler will provide a Chain of Custody form that lists who is responsible for shipping; will be attached to the sample itself
- Samples must arrive at lab **within four (4) calendar days** of sample collection
 - Timeline includes physically getting to the carrier, shipping time, etc.
 - Check with laboratory – they may require faster shipping



COMPLIANCE TESTING



Testing Laboratories

- May select any testing laboratory that meets:
 - Qualifications:
 - **ISO/IEC 17025 accredited;**
AND
 - After 12/31/2022, lab must also be **DEA-Registered**
 - USDA reporting requirements
 - Testing requirements
 - Your business needs
 - Price, turnaround, other available tests (terpenes, metals), etc.

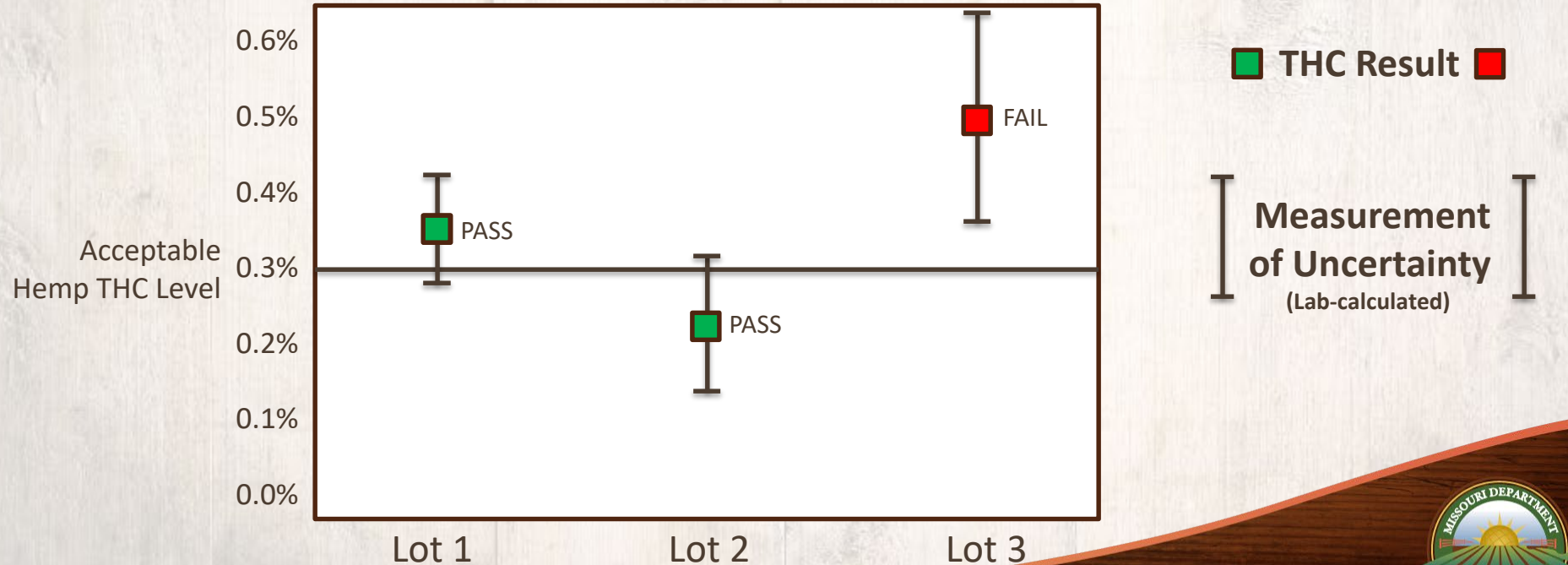
Can use out-of-state laboratory, if desired

Compliance Testing Factors

- Compliance determined by:
 - **0.3% Total THC**
 - May be calculated by: $\text{Delta-9 THC} + (\text{THCa} \times .877)$; or
 - Directly measured as *decarboxylated* Delta-9 THC
 - Includes the conversion of THCa into Delta-9 THC
 - **Measurement of Uncertainty “MU”**
 - Lab-calculated; varies by lab
 - Similar to margin of error

Acceptable Hemp THC Level

Results that contain (or are below) the 0.3% Total THC threshold are a “pass”.



Interpreting Test Results

- **Be careful interpreting test results!**
 - “Pass” or “Fail” can mean different things in different states in different years; this is a changing industry
 - Review [GS2103 – Certificate of Analysis Guide](#)
 - Ask us if you are not sure!

Submitting COAs

- All compliance COAs must be submitted within seven (7) calendar days of receipt
 - Email submission preferred: reporting.hemp@mda.mo.gov
 - Do not submit preliminary/unofficial test results

Test Results: Compliant

- **Compliant ($\leq 0.3\%$ Total THC)**
 - Submit test results to MDA within seven (7) days
 - Submit to reporting.hemp@mda.mo.gov
 - Submit as attachment/image (no web links or drop box)
 - Once non-viable (harvested), it may enter commerce and is no longer regulated by the MDA Hemp Program
 - Products themselves may be regulated by other programs, agencies, or entities depending on their use

Test Results: Non-Compliant

- **Not compliant (>0.3% Total THC)**
 - Submit test results to MDA within seven (7) days
 - Submit to reporting.hemp@mda.mo.gov
 - Submit as attachment/image (no web links or drop box)
 - Producer may request for the lab to retest the sample already in the lab's possession
 - If no retest is requested or the retest is also “hot”, the lot must be remediated or destroyed



REMEDIATION



Pre-harvest Sample >0.3% Total THC

- **Remediation**

- Step 1: Remediation Method
 - Option A: Homogenizing
 - Option B: Destroying floral material only
- Step 2: Resampling/retesting

- **Destruction**

- Render unusable & non-retrievable
- More on this in the destruction section

Remediation by Homogenization

- **Option A: Homogenization**
 - Shred, chop, or grind the entire lot
 - Including flower, stalk, leaves, etc.
 - Create a uniform, homogeneous biomass
 - Certified Sampler (re)samples biomass



Remediation by Destruction of Floral

- **Option B: Destruction of Floral Material**
 - All flower & associated material destroyed
 - Bucking/separating flower & destroying
 - Retting fiber; allows flower to be destroyed by nature
 - Certified Sampler (re)samples leftover stalks & stems

Remediation Sampling

- **For both methods of remediation, a Certified Sampler (CIHS) must resample the remaining materials**
 - Separate section in the MDA Sampling Protocol for these processes

Remediation Sampling

- Containers (bales, totes, etc.) containing the remediated material must be **easily accessible** for the sampler

Remediation Sampling

- **Sample of remediated material will be tested at a testing laboratory**
 - All COAs submitted to MDA within 7 calendar days, regardless of results
 - Compliant ($\leq 0.3\%$ Total THC) = remediated materials may enter commerce*
 - No seeds may be used for propagation
 - Non-compliant ($> 0.3\%$ Total THC) = destruction

Remediated Materials

Seeds obtained from remediated
lots **cannot** be used for
propagation (replanting) purposes

Subject to Change – April 2022



HARVEST

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Harvest Window

- Harvest may begin immediately after the compliance sample is collected
- Harvest of the entire lot must be completed **within thirty (30) days of sampling**
 - Regardless of weather, labor issues, etc.

Waiting for Test Results

- You are not required to wait until test results are returned to harvest
 - If you do harvest prior to results, make sure to keep lots separate!
 - Do not commingle materials, even those of the same variety
 - Remember, your 30-day harvest window **begins at sampling** (regardless of laboratory testing turnaround)

Extending Harvest

- If you cannot complete harvest within the allotted window, you must:
 - Redefine the remaining plants as a new “lot”;
 - Ex: Original lot was named “Lot 1”, remaining plants are “Lot 1-B”
 - Submit a revised MDA Planting Report
 - Must be received prior to testing
 - Have the new lot (remaining plants) **sampled and tested separately**; *do not commingle* with original group



DESTRUCTION



Destruction

- **Not uncommon; prepare for this potential risk**
 - Approximately 1 out of 10 planted acres were ordered for destruction in 2020 (Missouri)
 - Approximately 3 out of 10 planted acres were voluntarily destroyed prior to compliance testing in 2021 (Missouri)

Basics of Destruction Process

1. MDA issues Order of Destruction
 - A letter sent via Certified Mail outlining details & next steps
2. Producer completes destruction by approved method
3. Missouri State Highway Patrol (MSHP) certifies destruction is complete
 - MDA does not require an officer to be present during destruction
4. Producer submits Destruction Report back to MDA

Destruction Methods

- **On-site, common farm practices**
 - Mowing, chipping, chopping, plowing, disking, burying, composting, landfilling, burning (if allowed), etc.
- **Must render the *entire* lot unusable and non-retrievable**



Subject to Change – April 2022



RENEWALS

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Renewals

- **All licenses are valid for 3 years with continued compliance**
 - Annual fees due at the end of the anniversary month; dates are listed on your approval certificate

ISSUE DATE:	01-08-2020
ANNUAL FEE DATE:	01-31-2021
ANNUAL FEE DATE:	01-31-2022
EXPIRES:	01-31-2023

Renewal Notice

- **Approximately sixty (60) days prior to due date, MDA mails renewal letter & fee invoice**
 - Late fees assigned after due date
 - Revocation if no response
 - Withdraws all granted authorizations (obtain, possess, produce, sell, distribute, or offer for sale viable industrial hemp)



RECORDS



Retaining Records

Maintain all records for a minimum of

THREE (3) YEARS

Ex: copies of all submitted reports, origin documentation (such as COAs from suppliers), lot reports, sales invoices, test results, etc.

Records may be kept electronically, but must have readily available upon inspection

Inspections

- **Minimum of one inspection per 3-year license**
 - Randomly selected & as-needed
 - Appointment scheduled
- **Includes:**
 - Review of records (including previous years)
 - Crop inspection



OTHER REGULATORY CONSIDERATIONS



Pesticide Use on Hemp

- EPA has approved 58 products as of April 2022
 - <https://www.epa.gov/pesticide-registration/pesticide-products-registered-use-hemp>
- All products in the channels of trade in Missouri must also be registered in Missouri
 - Check here for MO registration status:
<https://apps.mda.mo.gov/moplants/ProductRegFSA/BrandSearch.aspx>
- MU Extension List of “Industrial Hemp Pesticides in Missouri”
 - <https://extension.missouri.edu/publications/g4705>
 - Note the last updated date when reviewing; products may have become eligible since the last edition

Transport

- Required when transporting *viable* hemp within MO:
 - Copy of license(s)
 - Bill of lading/sales invoice, if applicable
 - Certificate(s) of Analysis, if applicable
 - Chain of Custody, if applicable

Also recommended for transporting non-viable materials.

Consult with other states as needed, prior to transport.

Viable (Seed/Clone) Sales

- In order to sell or distribute industrial hemp seed or propagules (clones, cuttings, seedlings, etc.), you must have an Agricultural Hemp Propagule and Seed **Permit**
 - This action is **not** authorized by your Producer Registration, even if you produced the viable seed you are selling
- For example, in order to produce seedlings *and* sell them, you must have **both** a Producer **Registration** and an Agricultural Hemp Propagule and Seed **Permit**

Seed Labeling

- If you sell industrial hemp seeds, you must follow state and federal seed law, including but not limited to:
 - Purity testing (other seed/noxious weed content)
 - Germination testing
 - Labeling requirements
 - Read 2 CSR 70-17.130 for details
 - Resource: Missouri Crop Improvement Association

Saving Seed

- If you produce seed, you can retain for your **own future use***
 - Clearly label bag(s)/container(s)
 - Maintain access to pre-harvest compliance test results
 - Cannot sell (or distribute) without an Agricultural Hemp Propagule and Seed Permit
 - Caution against cross-breeding & unstable genetics

*If otherwise legal, authorized by the original supplier

Display Plants



- Plants that are utilized for “customer education” or display purposes must be included in a MDA Planting Report – even if not intended for harvest
- Cannot be kept on an unregistered site

Organic Certification

- Contact USDA for requirements to market products as “organic”
 - <https://www.ams.usda.gov/services/organic-certification>



QUESTIONS?

hempprogram@mda.mo.gov

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