ODA Hemp Program

2022 Laboratory Sampler Training Emily Roque Hemp Testing Specialist





Agenda

- Hemp Overview
- ODA Hemp Program
 Overview
- Grower Requirements
- Sample Requests
- Sampling Protocols
- Reporting to ODA
- Rule Updates
- Questions





What is Hemp?

- Cannabis with a total THC concentration at or below 0.3%.
- Hemp and Marijuana are different varieties of the same plant, *Cannabis sativa*.
- Hemp varieties have higher concentrations of CBD cannabinoids and lower concentrations of THC.



ODA Hemp Program



- Licenses hemp growers, handlers and agricultural hemp seed producers.
- Ensures the proper testing requirements are met by licensees.
- The Hemp Program regulates hemp using Oregon Administrative Rules (OAR) 603-048.



Hemp Grower Testing Requirements

- All licensed hemp production areas must be sampled and tested by a laboratory accredited by the Oregon Health Authority (OHA) and licensed by the Oregon Liquor and Cannabis Commission (OLCC) prior to harvest.
 - Growers must:
 - Complete and send a sample request form to the lab prior to sampling.
 - Ensure that their test reports and sampling documents are submitted to ODA.
 - Harvest area sampled within 30 days from sample date.



Sample Request Form

Key Points:

- A grow site can have multiple production areas.
- If the grower is licensed under a business name, the correct business name must be provided.
- If the grower is dividing a production area, they must use the harvest lot designation.
- Grower must submit a complete sample request form for each harvest lot being sampled.



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Hemp Sampling Request

To request sampling and testing, submit a complete copy of this form for each harvest lot or production are Submit it to an OLCC-licensed and ORELAP -accredited laboratory of your choice according to the laboratory's procedures for requesting sampling. To request ODA sampling and testing, submit the form to: hemotestreports@oda.state.or.us

For a list of accredited laboratories, please visit: https://oda.direct/CannaLabs

Grower Information

GROWER NAME: BUSINESS NAME (IF APPLICABLE):		DATE:	
PU/ME-	E LAND-	LICENSE NUMBER	
PHONE	EMAIL	LICENSE NUMBER	

Hemp Sampling Area - Must be a licensed growing area. Do not combine production areas. Sampling area may

contain only cannabis of the same variety or strain to be harvested in a distinct time frame

GROW SITE NAME:	PRODUCTION AREA NAME:		HARVEST LOT NAME:
			-2022-00_ (Production area name) (Lo
PHYSICAL ADDRESS:	епте	ZIPCODE	TOTAL SIZE OF PRODUCTION AREA: ACRES OR SQUARE FEE
GPS COORDINATES: LATITUDE: (MUST BE IN DECIMAL FORMA)	LONGITUDE: T, EG: 45.123456, -123.4	15623)	SIZE OF AREA TO BE SAMPLED: ACRES OR SQUARE FEE
AREA TYPE: (e.g. field, greenhouse, indoor)	INTENDED USE: (e.g. flower, biomass)	STRAIN TYPE:	DECLARED HARVEST DATE: (must be within 30 days from date of sampling)



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Written Description: Describe the location of the production area or harvest lot such that the growing area is apparent from a visual inspection of the premises and is easily discernable from other production areas and harvest lots:

Visual Depiction: Oriented north, map or sketch the production area or harvest lot, showing at least one prominent feature (road, building, etc.). Please outline and label all surrounding harvest lots and production areas, including areas left untested. May be hand drawn

Grower Request for Sampling and Testing

ι,	, request pre-harvest sampling and testing of production area(s) or harvest
lot(s) of hemp as descr	ibed in the attached hemp sampling request description(s) for THC analysis in accordance
with OAR 603-048. Sa and forms.	mpling and testing must comply with all requirements of OAR 603-048 including all exhibits
Signature:	Date:

Date:	

Fees will apply. Laboratories or ODA may have backlogs for sampling and testing. It is the grower's responsibility to ensure timely sampling and testing.

Updated 1/2022

Sampling & Testing Protocols

To be sufficient to meet the requirement for pre-harvest THC sampling and testing under OAR Chapter 603, Division 48, testing must be conducted as described in Exhibit A & B Protocols.

Exhibit A: https://www.oregon.gov/oda/shared/Documents/Publicatio ns/Hemp/SamplingProtocol.pdf Exhibit B: https://www.oregon.gov/oda/shared/Documents/Publicatio ns/Hemp/HempTestingProtocol.pdf



On-Site Sampling

- Only samples taken by and remaining in the chain of custody of authorized labs qualify for testing.
- Sampling must produce a representative sample of the harvest lot.
- Avoid contamination.
- Disinfect tools after finishing all sample collections.
- Only sample plants with flowers when a purpose of the harvest lot is to produce flower.
- This is a pre-harvest test. Sampling of harvested hemp is not allowed.





Arriving On-Site

- Meet with site representative and go over sample request form.
- Survey the site choose the best sampling pattern for the harvest lot.
- Complete the on-site sample form.

Equipment & Supply List:

- Forms (including extra sample request forms)
- Paper bags for samples
- Permanent pens for marking on paper sample bags
- Pruning shears for collecting foliar samples
- Single-use Coveralls
- Gloves, disposable
- Boots or booties (waterproof recommended)
- Rain gear (recommended)
- Boxes for storing sample equipment and samples
- Bleach, 10% solution or other acceptable surface disinfectant for cleaning tools or boots between fields
- Clipboard
- Clicker to count the number of samples collected (optional)



Sampling Patterns



On-Site Sampling Form

Helpful to include:

- Number of samples taken.
- Obstacles or barriers that prevent the ability to sample in a sawtooth pattern.
- Harvest lots that remain unsampled.



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Hemp On-Site Sampling Form

For laboratory use only. Complete one copy of this form for each harvest lot or production area.

Laboratory Information

LABORATORY NAME:	SAMPLER NAME (PRINTED):	DATE:
O ROWER NAME:	OROWER BUSINESS NAME IF APPLICABLEE	NUMBER OF HARVEST LOTS SAMPLED:
TIME SAMPLING STARTED:	REPRESENTATIVE (PRESENT AT THE TIME OF S	SAMPLING):

Hemp Sampling Area - Must be a licensed growing area. Do not combine production areas. Sampling area may



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Written Description: Describe the location of the production area or harvest lot such that the growing area is apparen from a visual inspection of the premises and is easily discernable from other production areas and harvest lots:

Visual Depiction: Map or sketch each harvest lot or production area at the time and date of sampling to show the location of the grow area. This must include the sampling pattern. The description and depiction must be sufficient such that the growing area of the harvest lot is apparent from a visual inspection of the premises and is easily discernable from other harvest lot growing areas.

GROW SITE NAME:	PRODUCTION AREA NAME:		SITE NAME: PRODUCTION AREA N	IAME:	HARVEST LOT NAME: -2022-00 (Production area name) (Lot
PHYSICAL ADD RESS:	CITY:	ZIPCODE	TOTAL SIZE OF PRODUCTION AREA: ACRES OR SQUARE FEET		
GPS COORDINATES: LATITUDE: (MUST BE IN DECIMAL FORM/	LONGITUDE: AT, EG: 45.123456, -123	.45623)	SIZE OF AREA TO BE SAMPLED: ACRES OR SQUARE FEET		
AREA TYPE: (e.g. field, greenhouse, indoor)	INTENDED USE: (e.g. flower, biomass)	STRAIN TYPE:	DECLARED HARVEST DATE: (must be within 30 days from date of sampling)		

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The ibed in the harvest lot on-site sampling description(s) included with this form accurately reflect the harvest lot location(s) and description(s) and the sampling conducted by the sampler. The licensed grower agrees to the sampling as described in the attached descriptions.

Grower/representative signature

Name:

Sampler signature:

Name: Updated 1/2022

Sample Collection



- Cut approximately five to eight inches in length from the main stem (that includes the leaves and flowers), the terminal bud (that occurs at the end of a stem) or central cola (cut stem that could develop into a bud).
- Avoid sampling dead, diseased, or mechanically injured plants.
- Take one sample per plant, randomly throughout the harvest lot. Place each sample in a paper bag.
- Since they are a measure of the entire harvest lot, all samples from the harvest lot are collected into a single bag.



Sample Collection

- Each composite sample should consist of a maximum of 30 plant heads of about 5-8 inches.
- For small fields or when sampling from a known number of plants, the Hypergeometric Table should be used.
- The sample size cannot be less than 4 ounces, which is the minimum amount necessary for laboratory tests and file samples.

Total number of pl	lants: Randomly select this number of plants to sample
1-13	Sample all plants
14-15	13
16-17	14
18-19	15
20-22	16
23-25	17
26-28	18
29-32	19
33-38	20
39-44	21
45-53	22
54-65	23
66-82	24
83-108	25
109-157	26
158-271	27
272-885	28
886-200,000	29



Sample Collection



- Do not sample non-contiguous areas.
 - More than one greenhouse
 - More than one hoop house
 - Fields with:
 - Roads (exception for standard driveways)
 - Non-accessible fields via fences
 - Irrigation ditches
 - Waterways (creeks)
 - Obstructing features
 - Tree lines
- The areas sampled should be consistent with the areas provided on the grower's license.



Preparation of Composite Sample



After placing all samples from the harvest lot into a paper bag, seal and record on the bag:

- Field name
- Harvest lot identifier
- Date of sampling
- Sampler signature
- Grower/ business name

Maintain custody and sample integrity during transport to the testing laboratory.



Reporting Results to ODA

Online

- Submit your pre-harvest test online
- Attach on-site sampling and sample request form once you've entered the results.
- Save the PDF of the test report generated.
- Send the test report, along with sampling documents to the grower who requested the testing.

Email

- Submit your ODA Hemp THC Report, along with the on-site sampling form and sample request form to the ODA via email at:
- <u>hemptestreports@oda.oregon.gov</u>
- Send the grower who requested testing the ODA Hemp THC Report and sampling forms.



Pre-Harvest THC Report



635 Capitol St, NE, Salem, OR 97301-2532 503.986.4652 hemp@oda.state.or.us Oregon.gov/ODA



HARVEST LOT INFORMATION: GROW SITE NAME:

ORDWSITE ADDRESS:

SAMPLED BY:

Hemp Program 635 Capitol St, NE, Salem, OR 97301-2532 503.986.4652 hemp@oda.state.or.us Oregon.gov/ODA

-2022-00_

(Lot #)

RECEIVED DATE:

HARVEST LOT NAME:

STRAIN TYPE:

RECEIVED BY:

DATE:

(Production area name)

Hemp Pre-Harvest THC Report

For laboratory use only. Complete one copy of this form for each harvest lot or production area.

 This form is only to be used for reporting total tetrahydrocannabinol (total THC) in pre-harvest tests of hemp as required by ORS 571.300 to 571.315; and OAR 603-048.

 IT IS NECESSARY TO LEGIBLY COMPLETE EVERY SECTION OF THIS FORM. Incomplete or illegible forms shall be returned and shall not be accepted until deficiencies are corrected.

 Complete a copy of this report for each harvest lot as defined by OAR 603-048-0010 (17). The form must be submitted to the ODA at hemptestreports@oda.oregon.gov and to the grower who submitted the request for testing.

 Completed copies of the Sampling and Testing Request Form and On-Site Sampling Form corresponding to the harvest lot must be submitted to ODA with this report.

GROWER INFORMATION:

PRIMARY LABORATORY TESTING:	SECONDARY LABORATORY T	ESTING (IF APPLICABLE):
IN DICATE [CHECK BOD] IF THIS IS A: FIRST TEST: SECOND TEST: THIRD TEST: RESAMPLE	ORDWER NAME IT FUSINESS,	LIST BUSINESS NAMEL
O ROWER LICENSE NUMBER:	GROWER PHONE NUMBER:	GROWER EMAIL:

ANALYTICAL REPORT FOR TETRAHYDROCANNABINOL(THC) CONTENT:

SAMPLE DATE:

CITY:

PRODUCTION AREA NAME:

METHOD REFERENCE:	ANALYTICAL RESULTS: %TOTAL THC	MEASUREMENT OF UNCERTAINTY*:
DATE TESTED:	CHECK BOX IF: PASS: FAIL**:	

LABORATORY TECHNICIAN NAME:

SIGNATURE: _____ DATE: _____ DATE: _____

SIGNATURE:

*Measurement of uncertainty means the parameter, associated with the result of the measurement, that characterizes the dispersion of the values that could reasonably be attributed to the particular quantity subject to measurement.

**A sample fails testing when the application of the measurement of uncertainty to the amount of total THC of the sample calculated in accordance with OAR 333-064-0100(4) reported by a laboratory produces a distribution or range that does not include 0.3 percent or less on a dry weight basis. Updeted (/2022 2 2



Updated 1/2022

Upda

Common Issues



Not reporting test results or required documents.

Combining production areas for testing.

Sampling non-contiguous areas as one.

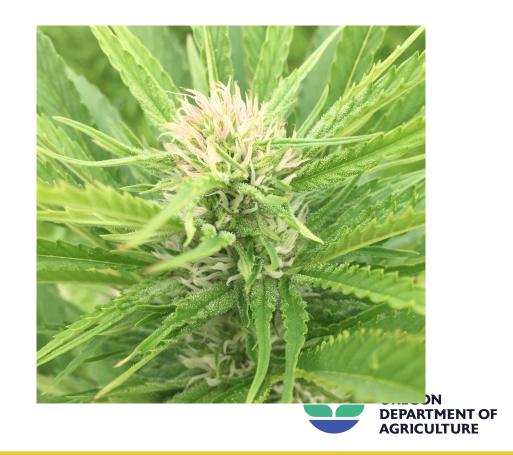
Combining two grower's fields that are adjacent.

Incorrectly advising growers on current rules and regulations. Illegible or incomplete paperwork.



Failed Pre-Harvest Tests

- Failed tests must be reported within 24 hours.
- Growers can:
- Have the file sample retested.
- Resample the failed harvest lot.
- If neither option is chosen, or if retesting/resampling fails, the harvest lot must be destroyed.
- ODA works through the retesting options and/or destruction with the grower.



Rule Updates effective 1/1/22

Harvest Lots by strain type





Harvest Lots by Strain Type

Prior to January 1, 2022, any combination of hemp strains could be planted in a single harvest lot.

On and after January 1, 2022, all harvest lots must have a single hemp strain variety.

• "Harvest Lot": Means a quantity of Cannabis of the same variety or strain harvested in a distinct timeframe..



Pass/Fail Criteria

Prior to January 1, 2022:

pass=≤0.34% total THC dry weight

fail= >0.34% total THC dry weight

On and after January 1, 2022

• fail: when the application of the measurement of uncertainty to the amount of total THC of the sample calculated in accordance with OAR 333-064-0100(4) reported by a laboratory produces a distribution or range that does not include 0.3 percent or less on a dry weight basis



Pass/Fail Example

Fail

Result: 0.36% total THC MU: 15% (0.36*15)/100= 0.054 Range= 0.36+0.054=0.41 0.36-0.054=0.31 Pass

Result:0.36% total THC MU: 17% (0.36*17)/100=0.0612 Range= 0.36+0.0612=0.42 0.36-0.0612=0.30



Harvest Window

Prior to January 1, 2022:

• Begin harvest in earnest within 28-days from date of pre-harvest testing.

On and after January 1, 2022:

 Sampling of the harvest lot must occur not more than thirty (30) days prior to harvest. Harvest must be complete within the applicable time period for sampling, or the grower must arrange for additional sampling of the unharvested cannabis in accordance with these rules.



(K-State Research and Extension, Flickr/Creative Commons)



Unrestricted Access

The grower or authorized representative must provide the sampler with unrestricted and unobstructed access to all hemp and other cannabis plants whether growing or harvested and all lands, buildings, and other structures used for cultivation, handling, and storage of all hemp and Cannabis and all other locations listed in the grower's license.

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USDA Reporting

Beginning January 1, 2022, the laboratory reports all results from preharvest testing to the United States Department of Agriculture. The test results report must contain the following information:

-Grower's license number -Grower's name -Business address of the grower -Harvest lot identifier -Name of the laboratory -Date of the test and report

Report using USDA heMP platform: https://www.ams.usda.gov/rulesregulations/hemp/hemp-emanagement-platform





Thank you!

Emily Roque

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