



# HEMP

## “The Gateway Crop”

Tony Silvernail





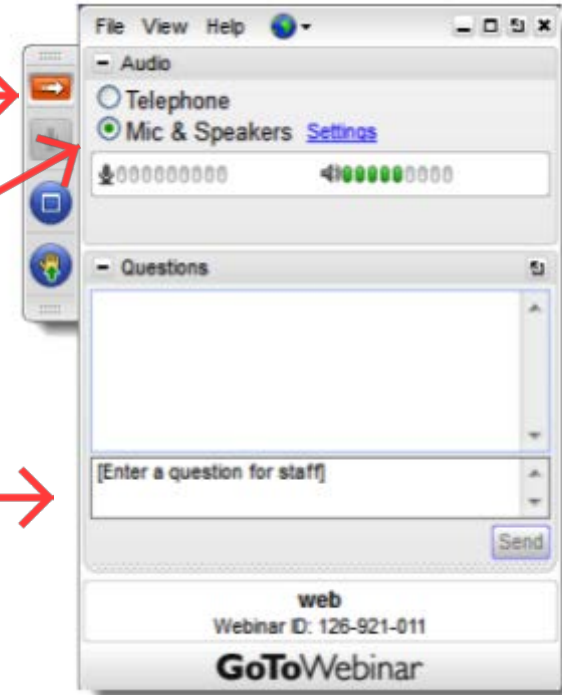


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# HEMP

## “The Gateway Crop”

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# The Gateway Crop

## Hemp In Kentucky

≈ 280 Hemp Lic.  
in 2018

≈ 1100 Hemp Lic.  
in 2019





# The Gateway Crop



## The Gateway Crop?

- ❖ Tremendous interest in Hemp
- ❖ Why **ORGANIC** Hemp?





## The Gateway Crop



## The Gateway Crop?

# Opportunity

- ❖ Interest in Hemp has pushed interest in ORGANIC
- ❖ Steep learning curve
- ❖ Fight the 'ALMOST'





# The Gateway Crop

## ORGANIC Association of Kentucky

- Non profit, membership based organization dedicated to improving the health of the environment and the citizens of Kentucky. Oak provides resources and educates Kentucky farmers and consumers who are interested in driving change for a more regenerative and organic food system
- <https://www.oak-ky.org/>
- Transition Training Program -2016
  - Free program to OAK Members





## The Gateway Crop



# ORGANIC Transition/OSP Development

- Fundamental principles of organic agriculture
- Practical Application
  - Navigate regulations
  - Farm transition plans
  - Practical details about organic crop, livestock, grain, and dairy production
  - Organic Seed, Fertilizer, Supplies, etc....

**Care**

**Ecology**

**Health**

**Fairness**





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## National Organic Program NOP (Ag Marketing Service, AMS)

- Organic Food Production Act of 1990,
- Final Rule establishing the NOP, 2000
  - Rules Established, October 2002
  - <https://www.ams.usda.gov/rules-regulations/organic>
- Organic Hemp



United States Department of Agriculture  
Agricultural Marketing Service  
National Organic Program

1491 Independence Avenue SW  
Room 3036 South Building  
Washington, DC 20250

NOP 2040  
Effective Date: August 23, 2016  
Page 1 of 1

### Instruction Organic Certification of Industrial Hemp Production

Links Updated: September 13, 2018

#### 1. Purpose and scope

This instruction clarifies U.S. Department of Agriculture (USDA) policy regarding the organic certification of industrial hemp production by certifying agents accredited by the USDA National Organic Program (NOP). This instruction applies to all NOP-accredited certifying agents, and replaces the February 2016 version of NOP 2040.

#### 2. Background

Section 7606 of the Agricultural Act of 2014 (Farm Bill) authorized institutions of higher education and state departments of agriculture to establish industrial hemp research pilot programs in states where the production of industrial hemp is legal and subject to certain other conditions. On August 12, 2016, the USDA, in consultation with the U.S. Drug Enforcement Administration and the U.S. Food and Drug Administration, published a [Statement of Principles on Industrial Hemp](#) regarding the applicability of Federal laws to activities associated with growing and cultivating industrial hemp.

#### 3. Policy

For hemp produced in the United States, only industrial hemp, produced in accordance with the 2014 Farm Bill, as articulated in the [Statement of Principles on Industrial Hemp](#) issued on August 12, 2016 by USDA, may be certified as organic, if produced in accordance with USDA organic regulations. USDA accredited certifiers should direct questions regarding the guidance to their Accreditation Manager. For imported hemp, existing regulations and guidelines continue to govern whether products may be certified as organic.

#### 4. References

USDA Organic Regulations ([7 C.F.R. Part 205](#))  
7 C.F.R. § 205.501 General Requirements for Accreditation.



# The Gateway Crop

## ORGANIC Certification

### ➤ 5 Challenges of Transition/Certification

1. Defining the Farm and Fields
2. Production Practices
3. Organic Sourcing
4. Accepted and Prohibited
5. Records



Kentucky Department of Agriculture

Revised 12/2018



### 2019 Crop/Farm Organic System Plan\*

Please fill out this Organic System Plan completely if you are requesting organic crop certification, crops include pasture land for livestock. Use additional sheets if necessary. Sign this form. You must submit farm maps and field history sheets with this form. Attach all other supporting documents (labels, rented or recently purchased land histories, etc.). If completing this form electronically, navigate the fields using the down arrow key or the mouse.

This form is to be submitted along with an application for new or renewal applications. **RENEWAL DEADLINE March 1**

#### SECTION 1: General Information

Name: Anthony Silvermail		KDA Organic Certification Number: (if renewal) 14-037-561
Total Acres In your Farm Operation: 52		
Total Organic Acres: 52	Total Transitional Acres: 0	Total Conventional Acres: 0
Total Organic Greenhouse(s): 0	Total Organic High Tunnel(s): 4	Total Conventional Greenhouse/High Tunnel(s):
Have you managed all fields for 3 or more years? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If No, you must submit signed statements from the previous owner/manager stating the use and all inputs applied for the previous three years on all newly acquired fields. KDA has a "previous Land Use Declaration" form you may use. The form can be found on our website or you may contact us for a copy.		

#### New Crop Organic System Plan (OSP) Forms for 2018

This complete Crop/Farm Organic System Plan (OSP) will contain the following Sections, along with other necessary attachments. Renewal applicants will only be required to submit updates and may reuse portions of the previous year's forms if still accurate.



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# ORGANIC Production

## ➤ Where does HEMP(CBD) fit in?

1. Rotations
2. Nutrient Requirements
3. Production Practices
4. Post Harvest





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## ORGANIC Production

### ➤ Rotations

Dr Shawn Lucas – Kentucky State University

1. Small Grains, Pastures, Vegetables.....?
2. What Works?





## The Gateway Crop

# ORGANIC Production

## ➤ Hemp: CLONE vs SEED

Craig Lee

Jane Harrod

A 'Passionate Debate'





# The Gateway Crop

## ORGANIC Production



Planting, Maintenance, Harvest





# The Gateway Crop

## ORGANIC Sourcing

### ➤ Production Supplies

- Seeds
- Planting Stock
- Fertilizers
- Pest Control
- Miscellaneous Supplies





# The Gateway Crop



## Organic Sourcing

- Production Supplies
  - Seeds
  - Planting Stock

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Electronic Code of Federal Regulations  
e-CFR

### Related Resources

The Code of Federal Regulations (CFR) annual edition is the codification of the general and permanent rules published in the Federal Register by the departments and agencies of the Federal Government produced by the Office of the Federal Register (OFR) and the Government Publishing Office.

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## Electronic Code of Federal Regulations

e-CFR data is current as of February 8, 2019

Title 7 → Subtitle B → Chapter I → Subchapter M → Part 205 → Subpart C → §205.204

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Title 7: Agriculture

PART 205—NATIONAL ORGANIC PROGRAM

Subpart C—Organic Production and Handling Requirements

### §205.204 Seeds and planting stock practice standard.

(a) The producer must use organically grown seeds, annual seedlings, and planting stock: Except That,

(1) Nonorganically produced, untreated seeds and planting stock may be used to produce an organic crop when an equivalent organically produced variety is not commercially available: Except That, organically produced seed must be used for the production of edible sprouts;

(2) Nonorganically produced seeds and planting stock that have been treated with a substance included on the National List of synthetic substances allowed for use in organic crop production may be used to produce an organic crop when an equivalent organically produced or untreated variety is not commercially available;

(3) Nonorganically produced annual seedlings may be used to produce an organic crop when a temporary variance has been granted in accordance with §205.290(a)(2);

(4) Nonorganically produced planting stock to be used to produce a perennial crop may be sold, labeled, or represented as organically produced only after the planting stock has been maintained under a system of organic management for a period of no less than 1 year; and

(5) Seeds, annual seedlings, and planting stock treated with prohibited substances may be used to produce an organic crop when the application of the materials is a requirement of Federal or State phytosanitary regulations.

(b) [Reserved]

Kentucky Department of Agriculture

Revised 12/2018

### SECTION 3: Seeds and Seed Sources

### NOP Rule 205.204

NOP Rule requires the use of certified organic seeds, unless the variety is not commercially available. If using non-organic seeds, you must have records of your attempts to source organic seed. Synthetic seed treatments are prohibited unless included on the National List. Genetically engineered/modified (GMO) seeds and inoculants are prohibited in organic production. NOP Rule uses the phrase "excluded methods" to refer to GMO products. **Please save all seed and inoculant labels, and documentation of commercial unavailability of organic seeds to show the inspector.**

List all seeds used or planned for use in the current season, including cover crops and greenhouses. Check the appropriate boxes and provide other information as needed. Attach additional sheets if necessary.

☐ NO SEEDS USED (Go to section 4) ☐ ANY GMO SEEDS USED? ☐ Yes ☒ No

**\*\*If any conventional untreated (not certified organic) seeds were used, describe your seed source attempts in order to document commercial unavailability here:**



SEED & VARIETY	CERTIFIED ORGANIC (✓)	CONVENTIONAL UNTREATED** (✓)	COMPANY PURCHASED FROM	TYPE OR BRAND OF COATING OR INOCULANT (IF ANY)
**Please See Attached Seed List	<input type="checkbox"/>	<input type="checkbox"/>		



# The Gateway Crop



## Organic Sourcing

### ➤ Production Supplies

- Seeds
- Planting Stock

Kentucky Department of Agriculture

#### Organic Hemp Policy

January 23, 2019

#### Overview:

Currently, KDA will certify hemp and hemp processors as organic. Our policy to become organically certified for hemp production is as follows:

- Must be a license holder, and be in good standing with KDA's hemp program.
- KDA will certify the production of hemp for floral material extract (example CBD oil or full spectrum hemp extract).
- KDA will certify hemp seed/grain and hemp fiber production and processing.
- Seedlings must come from a certified organic greenhouse.
- KDA will not certify products marketed for animals (example: hemp floral material extract treats for dogs, hemp grain for poultry feed, hemp fiber for horse bedding), until such products are approved by the Association of American Feed Control Officials and/or the U.S. Food & Drug Administration
- For a hemp product to be certified organic, both the crop and the processor must be certified organic.
- Must use organic seeds, unless commercial unavailability is documented.
- Cuttings (hemp clones) must be organic, unless commercial unavailability is documented.
  - If commercial unavailability is determined, non-organic planting stock may be used. The non-organic planting stock (example: a mother plant) would be considered conventional, but anything added to the cutting after rooting must be approved for organic use and documented on the OSP for the cutting to be approved for organic production.
  - 2nd generation cuttings taken from the 1<sup>st</sup> generation cutting would then be considered organic planting stock.
- Organic mother plants could also be obtained by starting from seed and using only organic approved inputs on the plant.
- Per guidance document 5029 4.3.3, feminized seeds would be allowed for use in organic production with a documented seed search.
  - Producers who wish to collect their own feminized seeds would be allowed to do so. The products used to induce this process do not require review.



6500 Casitas Pass Road, Ventura, CA 93001  
p. 805 684 6494 f. 805 684 2787  
info@occert.com  
www.organiccertifiers.com

### CERTIFICATE According to NATIONAL ORGANIC PROGRAM

Issued to:

**GREEN CHERRY ORGANICS LLC**  
900 NORTH TAFT HILL ROAD, FORT COLLINS, COLORADO, 80521  
UNITED STATES

Certified to the USDA organic regulations 7CFR Part 205.

Once certified, a production or handling operation's organic certification continues in effect until  
suspended, terminated, or revoked.



Organic Production Category: Crops  
Product(s): 100% Organic Industrial Hemp  
Site(s): 900 N. Taft Hill Rd., Fort Collins, Colorado,  
80521





# The Gateway Crop

## ORGANIC Sourcing

- Production Supplies
  - Pest Control





# The Gateway Crop



## Record

### ➤ What Do Need to Keep Track of.....

- Inputs
- Receipts
- Field Activity
- Sales

Date	Invoice	Buyer	Lettuce	Spinach	Swi
4/13/2016	2038	Good Foods		21.5	
4/20/2016	2041	Good Foods		31	
4/26/2016	2042	Good Foods		20	
5/1/2016	2046	Good Foods		21	
5/7/2016	2047	Good Foods		31.5	
5/14/2016	2048	Good Foods		9	
10/25/2016	3000	Good Foods		8.5	
10/31/2016	3001	Good Foods		15.5	
11/8/2016	3004	Good Foods		23.5	

Field Logs				
High Tunnel 1				
Date	Operation	Operator	Equip	Notes
4/12/2016	Weed/Water	Family	Drip/Hoes	Quick weed and a 2hr water
4/16/2016	Harvest	Tony	.	
4/23/2016	Harvest	Tony		
30-Apr	Weed/Harvest	Family		
5-May	Harvest/Water	Tony	Drip	3 hr
10-May	Harvest	Tony		Last Harvest
***Due to the warm weather in late April and early May the lettuce started to bolt real early				
25-May	Flail Mowed all Tunnels	Tony	BCS	Knocking all of the overgrown vegetation down



# The Gateway Crop

## Kentucky ORGANIC Hemp Co-op

- Why a Co-op?
  - Secretive Industry
  - Crazy “Wild West” business
  - Tough going to small 1-10ac growers
  - Credit availability
  - Seed, clone sourcing
  - Finally.... “P----- Off”





# The Gateway Crop

## Kentucky **ORGANIC** Hemp Co-op

- Organized in 2019
  - Small
  - 75% of Members getting certified for the first time in 2019
  - Support
  - Open Flow of Information
  - SOIL to OIL Certified **ORGANIC**
  - Better Income





# The Gateway Crop



- **National Organic Program (NOP)**
  - <https://www.ams.usda.gov/rules-regulations/organic>
- **Other Resources**
  - **Oregon Tilth**  
<https://tilth.org/>
  - **OAK**  
<https://www.oak-ky.org/>
  - **ATTRA**  
<https://attra.ncat.org/>
  - **Moses (Midwest Organic and Sustainable Education Services)**  
<https://mosesorganic.org/>
  - **Rodale**  
<https://rodaleinstitute.org/>





# The Gateway Crop



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UPCOMING WEBINARS

TILTH.ORG/EVENTS

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#TILTHNATION

