

Organic System Plan for Greenhouse/Hydroponic/Aquaponic Producers

Complete this form if you are applying for organic Greenhouse Production certification. This form must be accompanied by a separate Organic System Plan (OSP) for Producers. Write N/A for each question that does not apply to your operation. Facilities used for Greenhouse, Hydroponic or Aquaponic Production must be identified on the Facility Map provided for the Crop Production OSP.

List all seeds, seedlings and planting stock on the Seeds Table of the Crop Production OSP. Remember to sign this form.

G1 Organic Greenhouse Operation Profile

Applicant Name(s):	Operator #: (Provided by OnMark)	Date:
Type of Greenhouse Operation (check all that apply): <input type="checkbox"/> Greenhouse In-Ground <input type="checkbox"/> Greenhouse Medium in Trays <input type="checkbox"/> Hydroponics <input type="checkbox"/> Aquaponics <input type="checkbox"/> Other _____		
If In-Ground Greenhouse Production: List In-Ground Production crops on the Current Year Crop Production and Current Year Field History on the Crop Production OSP. For new production facilities (including those used for container production), complete the 3 Year Field History on the Crop Production OSP or complete a Prior Land Use Statement by the previous owner/site manager.		If Hydroponics/Aquaponics: Complete the following sections, as appropriate.

G2 Organic Production Facilities

List all facilities used for organic production on the following table:

Facility ID name/number	Type of Facility	Size (sq. feet/ acreage etc.)	Location	In-Ground (Yes or No)	Inspector Use Only: Verified
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

Updates to OSP: Date _____ Operator Initials _____

G3 Conventional Production Facilities Identification/ Organic Integrity☐ No Conventional Production

List all Non-organic production facilities on the table below. Facilities should also be identified on maps in the OSP.

Facility ID name/number	Type of Facility	Size (sq. feet/ acreage etc.)	Location	In-Ground (Yes or No)	Inspector Use Only: Verified
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>
					<input type="checkbox"/>

G4 Greenhouse/Hydroponic/Aquaponic Material Inputs

List all fertility inputs, soil amendments, soil mix ingredients, pest, weed and disease control products, water additives, forage inoculants, and other inputs used or planned for use in the current year. All products for use, must be approved by OMRI, WSDA, PCO or OnMark before use. OnMark must be notified immediately of any prohibited materials used whether intentionally or unintentionally.

List all inputs on the Material Inputs section of the Crop Production OSP.

G5 Maintenance of Organic Integrity

NOP requires that organic production areas have distinct boundaries and buffer zones to prevent unintended contamination of organic crops by the application of prohibited substances for non-organic production.

Describe how your operation prevents commingling or contamination of your facilities:

- ☐ Separate Facilities ☐ Separate Equipment ☐ Equipment clean-out prior to use with organic production
☐ Labeling of organic products ☐ Other: _____

Is lumber treated with prohibited materials used in any part of the organic production facilities (including tables, benches, posts or sill plates)? ☐ Yes ☐ No

If yes, what is the location and distance from in-ground production?

☐ N/A (No In-ground)

How do you ensure any inputs, cleaners or sanitizers do not result in contamination of organic products?

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G6 Hydroponics

☐ No Hydroponics

Hydroponics is the production of normally terrestrial, vascular plants with roots in nutrient rich solutions or in an inert, solid matrix bathed in nutrient solution. NOP requires a production system to be managed in accordance with all applicable standards to respond to site-specific conditions by integrating cultural, biological, and mechanical practices that foster cycling of resources, promote ecological balance, and conserve biodiversity.

Practices in place to support biodiversity and conserve natural resources must be described in the appropriate sections of the Crop Production OSP. There must be biological activity within the growing media, substrate, or planting mix.

Hydroponic production is prohibited by Canadian Organic Regulations (COR). The COR definition of hydroponic is: Cultivation of plants in aqueous nutrient solutions without the aid of soil.

Do you use a liquid nutrient solution to grow plants (including through aquaponic production)? ☐ Yes ☐ No

If no, go directly to Aquaponic section.

List all types of plants grown:

Describe the system type used for hydroponic production: ☐ aeroponic ☐ aquaponic ☐ bioponic
☐ wick ☐ water culture non-circulating ☐ flood and drain ☐ nutrient film technique ☐ other (describe)

Describe the containers and what they are made of:

Could the sealant or the containers be a risk of contamination if used for non-organic production or with prohibited substances?

☐ Yes ☐ No

If yes, what methods are used to ensure organic integrity?

Describe the type of medium used in the hydroponic system: (include all mediums on Material Inputs on the Crop OSP)

☐ none ☐ perlite ☐ vermiculite ☐ clay pellets ☐ coconut fiber (coir)
☐ peat moss ☐ gravel ☐ sand ☐ rockwool ☐ composted bark

☐ other: _____

Describe the nutrient solution used: (include all on the Material Inputs on the Crop OSP)

How often does the nutrient solution come into contact with the roots?

How are the nutrient levels monitored and balanced?

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G6 Hydroponics continued

☐ No Hydroponics

Hydroponics What is the nutrient solution temperature and how is it maintained?

What is the procedure to refresh the nutrient solution?

Describe how the waste is disposed of and how waste is managed to avoid environmental contamination:

What light source is used for hydroponic production: ☐ natural light

☐ artificial light (described): _____ ☐ other: _____

Describe any methods used to enhance the conditions for the plants grown in the hydroponic system: ☐ None

☐ nonsynthetic CO2 enhancement ☐ pollination techniques ☐ climate control ☐ Other: (describe)

G7 Aquaponics

☐ No Aquaponics

A management system in which fish and plants are grown in symbiosis, with fish waste and microbial activity creating soluble nutrients for the plants, and plants in turn preventing toxic nutrient accumulation for the fish. NOP allows plants grown aquaponically if the production is in compliance to be certified organic but not the fish used within the system.

Describe the nutrients flow through the system and location of plants and fish. Include the aquaponic system on the facility map including system components such as rearing tanks, settling basins, filters, pumps, etc.

Water additives used in the aquaponics system: (include all on the Material Inputs on the Crop OSP)

How are the nutrient levels monitored and balanced?

Do the edible parts of the plants come into contact with the nutrient solution? ☐ Yes ☐ No

Describe methods used to prevent fish manure solids from coming in contact with edible portion of organic plants:

Describe how the bacterial population in your system was established:

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G8 Seedling & Planting Stock Production

NOP §205.204

☐ Not Applicable

Annual seedlings must be certified organic unless they meet the requirement under NOP §205.204(a)(1)(3), §205.204(a)(5).

Do you grow organic seedlings or planting stock? (check all that apply) ☐ On-Farm ☐ Off-Farm

Where are they grown? (for example, greenhouse, hoop house, etc., including type and size of structure):

Are plant containers/flats off the ground? ☐ Yes ☐ No **Planted directly into the ground in the greenhouse?** ☐ Yes ☐ No

If treated wood is used in any part of your greenhouse, state date and location of treated wood installation:

Describe your watering system:

How do you prevent diseases and/or insect problems in seed and planting stock production?

Do you sell any of your organic seedlings or planting stock? ☐ Yes ☐ No

G9 Attached Supporting Documents

☐ None

Attachments, in addition to the OSP for Producers:

<input type="checkbox"/> Input product labels for products that are not pre-approved by OnMark	<input type="checkbox"/> Purchase Records	<input type="checkbox"/> Sales Records
<input type="checkbox"/> Production Records	<input type="checkbox"/> Facility Map(s)	<input type="checkbox"/> Other _____

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Affirmations - Initial each statement after reading

NOP §205.400/§205.401

Initial ALL:

- _____ I/We have reviewed the USDA National Organic Program (NOP) regulations in the Code of Federal Regulations (CFR) Part 205 relevant to my/our operation.
- _____ I/We have asked OnMark for clarification of any points that were unclear, such that I/we now understand the regulations as they apply to my/our operation. I/We agree to comply with all applicable organic production and handling regulations.
- _____ I/We affirm that the attached Organic System Plan (OSP) accurately describes all aspects of my/our current organic operation.
- _____ I/We will follow this plan and maintain all appropriate records and documentation.
- _____ I/We will submit updates to the certifying agent whenever substantive changes are made, thus ensuring that the application/OSP consistently reflects the practices of my/our current organic operation.
- _____ I/We have kept a copy of my/our application, OSP, and all applicable attachments and addenda.
- _____ I/We will immediately notify OnMark Certification of any change(s) in my/our certified operation, or portion of it, that may affect its compliance with the National Organic Policy Act or regulations.
- _____ I/We agree to immediately notify OnMark concerning any application, including drift, of a prohibited substance to any field, production unit, site, facility, livestock, or product that is part of my/our operation.
- _____ I/We will permit on-site inspections by OnMark and its designated representatives, with complete access to the production and/or handling operation, including non-certified production and handling areas, structures, and offices.
- _____ I/We understand that the operation may be subject to announced and/or unannounced inspections and/or sampling at any time, as deemed appropriate to ensure compliance with NOP Regulations.
- _____ I/We agree to maintain all records applicable to the organic operation for not less than five years beyond their creation, and to allow authorized representatives of the Secretary of Agriculture, applicable state organic program's governing state official, and certifying agent access to such records during normal business hours for review and copying to determine compliance.
- _____ I/We agree to submit applicable fees charged according to the fee schedule by OnMark.
- _____ I/We understand that a certifying agent's acceptance of this form in no way implies granting of certification.
- _____ I/We affirm that all information in this application/OSP is true and accurate to the best of my/our knowledge.
- _____ I/We grant permission and give consent for use of photographs taken of farm for press releases and promotional materials.

Signature of Operator(s): _____ **Date:** _____

Printed Name(s): _____

Keep a copy of everything you send to OnMark for your records (required to maintain for five years)

Mailing Information

Submit all applications and payments to:

OnMark Certification Services, LLC
60324 Missouri Avenue
Goshen, IN 46528

Phone: (574) 971-8479 Fax: (574) 971-5424 Email: office@onmarkcertification.com

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