CSI Organic Field Crop System Plan

PLEASE ANSWER EACH QUESTION. IF A SECTION DOES NOT APPLY TO YOUR OPERATION, PLEASE INDICATE "Not Applicable". ***DO NOT LEAVE ANY PART OF THE SYSTEM PLAN BLANK.***

Please attach *the following:*

- *The completed* ***ORG_FAR_25_General Farm OSP****.*
- *A current farm map(s) detailing: all fields with field numbers; buildings and storage bins and facilities.*
- *On the map(s), identify land use of adjoining fields (i.e., conventional crops, residential area, etc.).*
- *Certificates for fields certified by another certification body.*
- *Field history sheets for any new fields not currently included under an organic certificate.*

Use additional sheets if necessary.

SECTION 1: GENERAL INFORMATION	
Applicant (Legal Name):	**Date:**

SECTION 2: FARM PLAN INFORMATION

FIELD HISTORY, LOCATION and STATUS

Please complete the **CSI Farm Field History Sheet (ORG_FAR_02_Farmfieldhistory)** for any field that is not currently certified to indicate:

- the fields included in your application
- their location and size
- their management status and history
- the date of the last application of a prohibited product for each organic standard you are applying for, and
- Please indicate which fields are not parts of the home farm.

If you have fields which have been certified by another CB to the ***same*** *standard you are making application to, please only complete the current year portion of the* ***Farm Field History Sheet (ORG_FAR_02_Farm Field History).*** *Please attach copies of any certificates and field lists you have been granted.*

If you are converting pasture or hay land to organic production or have rented or owned the fields for less than three years that are not currently certified, attach the ***CSI Land History Affidavit (ORG_FAR_01_Land History Affidavit)*** *or a signed statement from current or previous landowner regarding field history and application of prohibited materials including the date of the last application and the product name.*

Please describe below your transition plan for your farm to convert to full organic production.

© 2023 Centre for Systems Integration

Please indicate your yields by crop kind for the previous year (or attach records showing your yields), and also indicate your expected yield by crop kind for the coming year.

SECTION 3: SEED, SEEDLINGS AND PLANTING STOCK

- *Genetically engineered seed (as defined in the applicable scheme) is prohibited for use in organic production systems, as is seed treated with a substance prohibited according to the applicable scheme.*
- *Organic seed and planting stock must be used if commercially available.*
- *Annual seedlings must be produced according to the relevant scheme, i.e., they must be certified organic. Non-organic perennial plants (planting stock) must be managed organically for at least one year prior to sale of the plant as organically produced.*

Please complete the **Listing of Seeds, Seedlings and Planting Stock form (ORG_FAR_06_Seed listing)**, being sure to identify the organic standard to which the seeds, seedlings and/or planting stock are certified. Please ensure that the supplier information on the form is completed.

Non-Organic Seed and Planting Stock

Farm-saved seed from buffer strips is considered conventional seed.

If you did not use organic seed, please complete the ***CSI Commercial Availability Search Record (ORG_06_Commercial Availability Search)*** or provide equivalent supporting documentation.

If due to your commercial availability search you have sourced conventional, untreated seed of a crop kind which has a commercial GE type (e.g., corn, soybeans, canola), please have your seed supplier complete the ***CSI Affidavit of Non-GMO/GE Status of Product (ORG_02_Non-GMO Affidavit).***

If planting stock is perennial and non-organic, the producer must supply evidence that the planting stock was harvested after plants had been maintained in accordance with applicable standards for one year.

Please describe how you record what crop kind and/or variety is planted in each field.

Do you source any seedlings from off-farm? ☐ **Yes** ☐ **No**

If yes, please complete the subcontractor section in the CSI Organic Farm System Plan - General Information (ORG_FAR_25) and attach the current organic certificate for the seedling producer.

Seed Treatments

For seed treatments, including inoculants, complete ***ORG_FAR_07_Listing of Off-farm Inputs*** and submit it with the product labels for review and approval by CSI prior to applying any product to your seed.

SECTION 4: SOIL FERTILITY MANAGEMENT

© 2023 Centre for Systems Integration

Please complete ***ORG_FAR_07_Off-farm Inputs*** for any soil fertility or soil amendment products and submit it with the product labels and SDS for review and approval by CSI prior to applying any product to your land.

- *The Canadian standard requires an active management plan to build soil fertility and prevent soil erosion.*

Describe how you ensure the fertility program for each field is compliant with the requirements of the organic standard you are seeking certification to (e.g., your review of inputs, your record-keeping system for applying soil amendments, manure, or compost application, etc.).

A. GENERAL INFORMATION

What are your soil types?

What are your soil/nutrient deficiencies? ☐ **No deficiencies**

Please indicate how you have identified any soil deficiencies.

Rate the effectiveness of your soil fertility management program:

☐ **Excellent** ☐ **Satisfactory** ☐ **Needs improvement**

What changes do you anticipate?

What are the major components of your soil and crop fertility plan?

☐ biodynamic preparations ☐ compost ☐ conservation tillage ☐ crop rotation ☐ foliar fertilizers*****
☐ green manure, plow down, cover crops ☐ incorporation of crop residues ☐ inter-planting
☐ on-farm manure ☐ off-farm manure*****
☐ side dressing***** ☐ soil amendments***** ☐ soil inoculants * ☐ strip cropping ☐ sub-soiling
☐ summer fallow ☐ other _____

List each of the amendments/inputs starred (*) above on the form ***ORG_FAR_07_Off-farm Inputs.***

For off-farm manure, the supplier of the manure must complete ***ORG_24_A_Manure Source Declaration.***

© 2023 Centre for Systems Integration

If you use soil amendments which have high salt content, how do you manage your soil so as to prevent salt buildup?

☐ **Not applicable**

B. COMPOST: ☐ **Not applicable**

If you are using compost on your fields, it must meet the definition and/or conditions for "compost" found in the applicable standard (CAN/CGSB-32.311 section 4.2).

On-farm Compost

Please complete the CSI form ***Compost Feedstocks and On-farm Management Record (ORG_FAR_5A_On-farm compost record)*** or provide equivalent records to record the feedstocks, any testing conducted, and the management of the compost pile.

Off-farm Compost ☐ **Not applicable**

- *The compost shall not exceed the maximum acceptable levels of arsenic, cadmium, chromium, lead and mercury (mg/kg) and foreign matter (as per CCME Guidelines for Compost Quality);*
- *The compost shall not cause a buildup of heavy metals in soil over repeated applications.*
- *The compost shall meet the criteria for acceptable levels (MPN/g total solids) of human pathogens as per the CCME Guidelines for Compost Quality.*

If you will be applying off-farm compost to your land not approved as an input for organic agriculture, please ensure that you have analysis results from your supplier to confirm the following (according to the certification requested for each field on which the compost is to be applied):

☐ **Results on file**

Complete form ***ORG_FAR_07_Off-farm Inputs*** for any off-farm compost and submit it with the product labels for review and approval by CSI prior to applying any product to your land.

C. MANURE APPLICATION: ☐ **Not applicable**

What type of crops do you grow (check all that apply)?

☐ crops not used for human consumption

☐ crops for human consumption whose edible portion have direct contact with the soil

☐ crops for human consumption whose edible portion does not have direct contact with the soil

What forms of manure do you use?

☐ liquid ☐ semi-solid ☐ piled ☐ fully composted ☐ pelleted ☐ none

☐ other _____

Please complete the CSI form ***Manure Source and Application Record (ORG_FAR_5B_Manure Application)*** or an equivalent form to record manure sources and application details for both on-farm and off-farm sources.

☐ **On file**

© 2023 Centre for Systems Integration

Off-farm Manure ☐ **Not applicable**

For off-farm manure, the supplier of the manure must complete ORG_24_AAnnex I – Manure Source Declaration".

☐ **Attached**

How do you apply manure?

During what season(s) do you apply manure?

SECTION 5: ORGANIC CROP MANAGEMENT

The Canadian standard requires an active management plan to maximize soil and crop health, and to prevent weed, pest, and disease problems.

A. CROP ROTATION PLANS:

Please describe your general crop rotation plan below and attach details for each field. Crop rotation plans will be reviewed.

Ecosystem Health:

Does your operation include measures to promote and protect ecosystem health on the operation? Indicate which of the following features are incorporated on your operation:

☐ Pollinator habitat

☐ Insectary areas

☐ Wildlife habitat

☐ Maintenance or restriction of riparian areas or wetlands

☐ Other measures which promote biodiversity, please describe:

Soil Erosion: ☐ **No erosion problems**

What soil erosion problems do you experience and where are they in terms of farm location?

© 2023 Centre for Systems Integration

How do you prevent soil erosion? ☐ **Not applicable**

☐ conservation tillage ☐ contour farming ☐ firebreaks ☐ permanent waterways

☐ riparian management ☐ terraces ☐ tree lines ☐ windbreaks

☐ retention ponds ☐ other _____

B. PEST CONTROL PRODUCTS:

Note that the use of pest control products (insect or weed control products) must be compliant with the certification requirements of CAN/CGSB-32.311 section 4.3.

C. WEED MANAGEMENT PLAN: ☐ **No weed problems**

What are your problem weeds?

What weed control methods do you use?

☐ corn gluten ☐ crop rotation ☐ field preparation ☐ flame weeding ☐ hand weeding

☐ mechanical cultivation ☐ mowing ☐ natural mulch* ☐ prevention of weed seed set

☐ plastic mulch ☐ smother crops ☐ soil sterilization ☐ stale seedbed

☐ steam weeding ☐ use of hand tools ☐ use of approved products*

☐ use of restricted products* ☐ limited use of prohibited products*

☐ other

If you are using any weed control products, please complete the CSI form **"Listing of Off-Farm Input Products" (ORG_FAR_07_Off-farm Inputs)**. Permission must be obtained from CSI prior to using any weed control product.

Rate the effectiveness of your weed management program: ☐ **excellent** ☐ **satisfactory** ☐ **needs improvement**

What changes do you anticipate?

Mulch ☐ **Not applicable**

Note: *Any biodegradable mulch that you wish to use must be reviewed by CSI and approved for use in organic production.*

If natural mulch is used in your operation and is obtained off-farm, what is the source of the mulch?

Is documentation maintained to verify that the off-farm mulch is free of pesticides and other contaminants? ☐ **Yes** ☐ **No**

If mulch is used (plastic or natural), please describe the management of the mulch (when is it applied, how is it used, is it removed, etc.).

© 2023 Centre for Systems Integration

D. PEST MANAGEMENT PLAN: ☐ **No pest problems**

What are your problem pests?

☐ insects (list)

☐ birds ☐ gophers ☐ rodents ☐ other animals: _____

Do you work with a pest control advisor? ☐ **Yes** ☐ **No**

If yes, give the name of the contractor:

What strategies do you use to control pest damage to crops? ☐ **None**

☐ bird houses ☐ bat houses ☐ beneficial habitat ☐ companion planting _ ☐ crop rotation

☐ frog ponds ☐ hand picking ☐ IPM ☐ monitoring ☐ physical barriers

☐ physical removal ☐ resistant varieties ☐ release of beneficials ☐ timing of planting

☐ traps ☐ trap crops ☐ use of approved products*

☐ use of restricted products* ☐ limited use of prohibited products*

☐ other _____

If you are using any pest (insect or rodent) control products, please complete the CSI form **"Listing of Off-Farm Input Products" (CSI ORG_FAR_07_Off-farm Inputs)**. Permission must be obtained from CSI prior to using any insect control product.

Rate the effectiveness of your pest management program: ☐ **excellent** ☐ **satisfactory** ☐ **needs improvement**

What changes do you anticipate?

E. DISEASE MANAGEMENT PLAN: ☐ **No disease problems**

What are your problem crop diseases?

What disease prevention strategies do you use? ☐ **None**

☐ crop rotation ☐ field sanitation ☐ resistant varieties ☐ timing of planting/cultivating

☐ plant spacing ☐ vector management ☐ use of approved materials ☐ use of restricted materials

☐ soil balancing ☐ solarization ☐ companion planting ☐ compost tea

☐ other _____

If you are using any disease control products, please complete the CSI form **"Listing of Off-Farm Input Products" (ORG_FAR_07_Off-farm Inputs)**. **Permission must be obtained from CSI prior to using any disease control product**.

Rate the effectiveness of your disease management program**:** ☐ **excellent** ☐ **satisfactory** ☐ **needs improvement**

What changes do you anticipate?

© 2023 Centre for Systems Integration

SECTION 6: WATER SOURCE AND IRRIGATION

Irrigation water should not contaminate organic land or crops with prohibited materials. Methods to conserve water usage should be part of the irrigation plan.

☐ **Not applicable**

A. TYPE OF WATER USE:

☐ foliar sprays ☐ irrigation ☐ washing crops

☐ other _____

B. SOURCE OF WATER:

☐ irrigation district* ☐ municipal/county * ☐ on-site well ☐ river/creek/pond ☐ spring

☐ other _____

Name of municipality / conservation authority / irrigation district:

C. TYPE OF IRRIGATION SYSTEM:

☐ drip ☐ flood ☐ center pivot ☐ **None**

☐ other _____

What input products other than water are applied through the irrigation system? ☐ **None**

What products do you use to clean irrigation lines/nozzles? ☐ **None**

If you are using any off-farm inputs or cleaners, please complete the CSI form **"Listing of Off-Farm Input Products" (CSI ORG_FAR_07_Off-farm Inputs)**. Permission must be obtained from CSI prior to using any disease control product.

How do you conserve irrigation water?

☐ drip irrigation ☐ laser leveling/land forming ☐ micro-spray ☐ scheduling ☐ tensiometer/monitoring

☐ other _____

Known contaminants in your irrigation water: *(Attach residue analysis and/or salinity test results if available.)*

_____

SECTION 7: MAINTENANCE OF ORGANIC INTEGRITY

A. ADJOINING LAND USE:

Organic production areas must be protected from contamination by prohibited substances (e.g., pesticide drift from neighbouring fields, GE pollen contamination). Buffer areas may change annually, depending on contamination potential from adjoining land uses. Crops at risk of contamination from commercialized GE crops shall be protected from cross-pollination. Mitigation strategies shall be implemented unless generally accepted isolation distances for the at-risk crop type are present.

© 2023 Centre for Systems Integration

If there is a risk of contamination to your crops from neighbouring GE crops, please describe the risk mitigation strategies you are using to minimize the contamination potential to your crops.

If your field maps do not indicate all buffer areas, please describe them below. ☐ **Not Applicable**

LOCATION/FIELD NOs	TYPE OF BUFFER (I.E. TREELINE, HEDGEROW, WILDLIFE PLANTING, GRASS STRIP, CROPLAND*)

If crops are harvested from the buffer zones, describe their harvest, storage and sales (ensure records are available to show the disposition of the harvested material):

What additional safeguards do you use to prevent accidental contamination? ☐ **None**

Written notification to: ☐ aerial spray companies/airports ☐ drainage commissions ☐ electric companies ☐ farm service office ☐ highway departments ☐ neighbors ☐ other _____

Have you posted signs along roadsides that adjoin organic fields? ☐ **Yes** ☐ **No**

How do you monitor for crop contamination? ☐ visual observation/scouting ☐ residue analysis ☐ GMO testing ☐ other (please specify) _____

Do any fields or portions of fields flood frequently (more than once every ten years)? ☐ **Yes** ☐ **No**

If yes, give field numbers:

Do any fields contain wood or fence posts treated with prohibited substances? ☐ **Yes** ☐ **No**

For new installations or replacement purposes, fence posts or wood treated with prohibited substances are prohibited.

© 2023 Centre for Systems Integration

Alternatives such as metal, plastic, concrete, or protective sleeves, may be used.

B. SPLIT AND PARALLEL PRODUCTION:

- *The farm operator must demonstrate the ability to keep crops separate in a split operation.*
- *Specific records must be kept for documenting all crops, inputs, harvest, storage, and sales for farms involved in split and/or parallel production.*
- *Split production is a farm that produces both organic and conventional crops.*
- *Parallel production is organic and conventional product of the same crop type, only permitted in accordance with the conditions set out in the standard.*
- *Parallel production crops are to be inspected just prior to harvest and an audit of all parallel production crops is to occur after harvest.*

Which category best describes your current operation?

☐ 100% organic ☐ predominantly organic ☐ predominantly conventional crop production

Do you grow the same crops organically, in transition and/or conventionally: ☐ **Yes** ☐ **No**

Have you planted organic fields and transitional fields with the same crop type? ☐ **Yes** ☐ **No**

Have you planted organic fields and conventional fields that are part of the same production unit with the same crop type?

☐ **Yes** ☐ **No**

Where you have planted organic and non-organic fields with the same crop type, are the varieties visually distinguishable?

☐ **Yes** ☐ **No**

© 2023 Centre for Systems Integration

Prevention of commingling of organic crops with conventional crops is accomplished by:

☐ Time

Explanation:

☐ Space (different farms, bins, etc.)

Explanation:

Records must be made available at the time of inspection which describes any prohibited soil amendment / herbicide / pesticide use on conventional production fields.

☐ **Not applicable**

Describe the storage location of the conventional and organic soil amendments/herbicides/pesticides (e.g., on-farm, off-farm, etc.):

C. EQUIPMENT:

Equipment used in organic crop production must not contaminate fields or organic crops. Contamination includes risk from oil, fuel, and hydraulic fluids. Equipment used for both organic and conventional farming should not contaminate organic fields or crops.

A list of all equipment used for planting, spraying and harvesting must be maintained, including information on ownership (owned, rented or custom), use (organic, conventional or both) and clean-out.

☐ **On file**

Do you contract for custom work? ☐ **Yes** ☐ **No**

If yes, please ensure **Section 2 A of the Farm System Plan -General Information is completed**.

If yes, do you obtain clean out records from the custom operator prior to work being done? ☐ **Yes** ☐ **No**

Clean-out logs (including method and frequency) must be kept for all equipment that is used in both organic and conventional production.

Is your equipment maintained so that fuel, oil, and hydraulic fluid do not leak? ☐ **Yes** ☐ **No**

D. HARVEST CONTAINERS:

How are your organic crops harvested? ☐ mechanical ☐ by hand

What containers are used for harvesting? ☐ gravity wagons/boxes _____ ☐ truck boxes

☐ cardboard/waxed boxes ☐ wooden totes

☐ plastic containers ☐ other _____

© 2023 Centre for Systems Integration

Are the harvest containers cleaned prior to organic crop harvesting? ☐ **Yes** ☐ **No** ☐ **Not applicable**

Are the harvest containers used for organic crops only? ☐ **Yes** ☐ **No** ☐ **Not applicable**

What potential contamination or co-mingling problems do you have with harvest or transport of organic crops?

E. CROP STORAGE: ☐ **No organic crop storage**

A list must be maintained of all storage areas associated with the farm (both on-farm and off-farm sites) that allows for a running inventory of organic product.

Describe the identification system you have established for your storage area to permit traceability and prevent any commingling or contamination of the organic product.

Do you use the same storage areas for organic, transitional, and conventional crops? ☐ **Yes** ☐ **No**

If yes, describe how you segregate organic crops from non-organic crops?

If yes, describe how you clean storage units prior to storage of organic crops?

Does your clean-out of your storage area prevent:

- commingling with other organic products not certified to the same standard, ☐ **Yes** ☐ **No**
- commingling with conventional product, and ☐ **Yes** ☐ **No**
- contamination of organic crops from non-approved substances. ☐ **Yes** ☐ **No**

F. POST-HARVEST APPLICATIONS: ☐ **No post-harvest applications**

What applications to stored crop have you used in the last three years? ☐ None

☐ coloring agents ☐ growth regulators ☐ oils ☐ preservatives ☐ ripeners ☐ synthetic fumigants

☐ sprouting inhibitors ☐ waxes ☐ other _____

© 2023 Centre for Systems Integration

Are any of these products used for organic crops? ☐ **Yes** ☐ **No** If you are using any product as a post-harvest application, please complete the CSI form **"Listing of Off-Farm Input Products"** (ORG_FAR_07_Off-farm Inputs)**.**
Please submit a copy of your completed system plan and all attachments to: **Seeds Canada dba Centre for Systems Integration** **85 Albert Street, Suite 1100** **Ottawa, Ontario** **K1P 6A4** **1-800-516-3300** **Email:** info@seeds-canada.ca

© 2023 Centre for Systems Integration