

ORGANIC LAND CARE STANDARD

Fifth Edition - 2013



**SOCIETY FOR
ORGANIC URBAN LAND CARE
(SOUL)**

This Standard was developed in 2001 by Jim Boughen, Glen Campbell, Michael Cowan,

Organic Land Care Standard
Fifth Edition - 2013
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This Standard is subject to change in the light of further experience with Organic Land Care. Proposals for improvement, including detailed reasons, may be submitted to the *Society for Organic Urban Land Care*,
e-mail: info@organiclandcare.org

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The Standard Review Committee of the Society for Organic Urban Land Care gratefully acknowledges the following resources consulted in the production of this Standard:

BC Landscape Standard, 7th Edition, 2008, British Columbia Society of Landscape Architects, and BC Landscape & Nursery Association, Vancouver, Canada

The IFOAM Norms for Organic Production and Processing, 2005 version, International Federation of Organic Agriculture Movements, Germany

Landscape Industry Fact Sheets, 2002, NSW Environment Protection Authority, Sydney, Australia

National Standard of Canada on “Organic Production Systems - General Principles and Management Standards”, CAN/CGSB-32.310-2006

National Standard of Canada on “Organic Production Systems - Permitted Substances Lists”, CAN/CGSB-32.311-2006

National Standard for Organic and Bio-dynamic Produce, edition 3.4, 2009, Organic Industry Export Consultative Committee, Canberra, Australia

NOFA Standards for Organic Land Care, 4th edition, 2009, NOFA Organic Land Care Committee, Northford, U.S.A.

Oregon Tilth Organic Land Care Policies & Standards, 1st edition, 2009, Oregon Tilth, Corvallis, USA

Guide to the Use of the Standard

This Standard was developed by the Society for Organic Urban Land Care (SOUL) in response to the need for clear guidelines for the creation and maintenance of landscapes for environmental, recreational and ornamental reasons, following organic principles.

This Standard aims:

- 1 to provide a clear definition of the practices and substances employed in Organic Land Care;
- 2 to provide guidance to Organic Land Care practitioners in their decision making processes;
- 3 to raise the awareness of the ecological requirements of landscapes;
- 4 to provide credibility for Organic Land Care professionals and to protect the public from misleading practices and claims.

This Standard is not intended to provide all the information needed for successful Organic Land Care. Such information must be obtained through formal education and practical experience.

This Standard has been drafted to address Organic Land Care requirements in **diverse** environments across many geographic regions. The requirements under this Standard must be implemented with utmost sensitivity to local environmental conditions.

Scope of the Standard

This Standard is the Code of Conduct adopted by Organic Land Care professionals certified by SOUL. This document also acts as a guideline and resource for all who are interested in Organic Land Care.

Where any requirement under this Standard conflicts with a legislated requirement in any jurisdiction, the legislated requirement shall prevail.

Principal Aims of Organic Land Care

Organic Land Care is the design, construction and maintenance of landscapes using practices and products that preserve and support the health of ecosystems and human communities.

Landscapes include natural and created environments including home gardens, parks, campuses, woodlands etc., in urban, rural and suburban settings under human management, and includes the use of edible and ornamental plants.

The Organic Land Care Practitioner:

- 1 Works with natural systems and processes to encourage and enhance biological diversity and native habitats;
- 2 Optimizes and maintains the life supporting properties of soil, air and water;
- 3 Utilizes renewable, biodegradable and recycled materials from local sources and minimizes waste;
- 4 Considers the wider social and ecological impacts of landscapes and the practices and products used to create and maintain them.

These principles are shared by the Northeast Organic Farming Association OLC, the Society for Organic Urban Land Care, and Oregon Tilth OLC. Please reference each organization's policies and standards to learn how these principles are applied.

Glossary

This is the definition of terms as used in this document.

Antibiotic

A substance containing any quantity of any chemical substance produced by a micro-organism, like penicillin, and that are administered to inhibit or destroy the growth of micro-organisms to prevent or treat disease.

Biodegradable

Capable of biological decomposition into simpler biochemical or chemical components.

Biodiversity

The number, variety and genetic variability of organisms found within a specified area.

Bio-dynamic

Agricultural practices based principally on the work of Rudolf Steiner and subsequent development derived from practical application, experience and research.

Botanical pesticide

Non-synthetic pesticide derived from plants or other organisms.

Buffer zone

An area designated to intercept or moderate adverse pressures or influences. A clearly defined and identifiable area that separates an organically managed landscape from other activities. Examples are: permanent hedgerows or plant windbreaks, solid fences, permanent roads and other adequate physical barriers.

Certification

The procedures by which a certifying agency or professional association provides written assurance that a practitioner, process or substance conforms to a standard.

Closed system

Self sustaining processes and practices within a defined area.

Composting

The art and science of combining organic materials under controlled conditions so that the assigned raw ingredients are transformed into humus.

Confined livestock operation

A fully caged system where livestock are unable to turn 360°, and/or are permanently kept in the dark.

Contamination

The presence of a prohibited substance in a product or in the environment.

Design

The underlying plan or conception that affects and controls the function and development of the landscape.

Ecosystem

The complex community created through the interaction of organisms, soil, water, air and other natural forces, functioning as an ecological unit.

Environment

All external factors to which an organism or ecosystem is exposed, and which ultimately determine its form and function.

EPA

Environmental Protection Agency

Fertilizer

A single or blended substance composed of one or more recognized plant nutrient(s).

Fungicide

A substance that kills fungi, or inhibits the growth of a fungus.

Genetic engineering

Techniques that change the genetic material of an organism in a way that does not occur naturally by multiplication and/or natural recombination. Examples of the techniques used in genetic engineering include but are not limited to

- recombinant DNA (rDNA) techniques that use vector systems
- techniques involving the direct introduction into the organism of hereditary materials prepared outside the organism
- cell fusion (including protoplast fusion) or hybridization techniques that overcome natural physiological, reproductive or recombination barriers, where the donor cells/protoplasts do not fall within the same taxonomic family

Unless the donor/recipient organism is derived from any of the above techniques, examples of techniques not covered by this definition include

- in vitro fertilization;
- conjugation, transduction, transformation, or any other natural process;

- polyploidy induction;
- cell fusion (including protoplast fusion) or hybridization techniques where the donor cells/protoplasts are in the same taxonomic family.

Genetically modified organism

An organism transformed by genetic engineering including, but not limited to plants, animals and microbes.

Green Manure

Crops or naturally occurring plants that are incorporated into the soil for the purpose of soil improvement.

Habitat

The area over which a species naturally exists; the area where a species occurs. Also used to indicate types of habitat, e.g. seashore, riverbank, wetland, woodland, grassland.

Herbicide

A substance that kills plants or inhibits plant growth.

IFOAM

International Federation of Organic Agriculture Movements

Ingredient

Any substance, including an additive, used in the manufacture or preparation of a product. The substance is present in the final product, possibly in a modified form.

Active Ingredient

A substance in a product with an action specific to the intended purpose of the product; the portion of a pesticide formulation which is the actual toxicant.

Inert Ingredient

A substance other than the active ingredient which is intentionally included in a product to make it easier to use or more efficient. Inert ingredients may have harmful or toxic effects.

Insecticide

A substance that kills insects or inhibits the growth of insect populations

Invasive

Marked by the tendency to intrude or encroach

Landscape Management Plan

A written integrated plan outlining the utilitarian, ecological and aesthetic objectives for a specific landscape, and the landscape management practices and products that will be employed

Manure

Livestock feces, urine and other excrement, and bedding used (or soiled) by livestock and that have not been composted.

Mulch

Naturally occurring materials, such as organic matter, rocks, etc., applied to the soil surface for soil fertility enhancement, soil protection, weed suppression and water retention

Nano-technology (Nano-technologie)

Nano-technology is a field described generally as the control and structuring of matter at dimensions typically between 1 and 100 nm to create materials, devices and systems with fundamentally new properties and functions.

Nano-scale chemical substances, or nano-materials, behave differently from their macro-scale counterparts, exhibiting different mechanical, optical, magnetic and electronic properties.

Nutrient Specific Fertilizer

A substance used to correct a nutrient imbalance in soil or a nutrient deficiency in plants; a substance containing one or more nutrients in proportions not normally found in living organisms or the products derived from them

OMRI

Organic Materials Review Institute

Organic

Of, relating to, or derived from living organisms; a holistic approach which emphasizes the importance of relationships between living organisms and their environment.

Organic Land Care

See: Principal Aims of Organic Land Care, page 8 of this document

Organic Matter

The remains, residues or waste products of any organism.

Organic Practices

An ecological management system that promotes and enhances biodiversity, biological cycles, and soil geological activity. It is based on minimal use of off-site inputs and employs practices that restore, maintain and enhance ecological harmony.

Pest

An organism causing damage to humans or to resources used by humans, such as some viruses, bacteria, fungi, weeds, parasites, arthropods, rodents and plants.

Pesticide

Any substance or mixture of substances intended to prevent, destroy, repel or mitigate any pests. An umbrella term for insecticides, herbicides, fungicides, etc.

pH Altering Substance

A substance that alters the soil pH.

Synthetic Substance

A man-made substance formulated or manufactured by a chemical process or by a process that chemically alters compounds extracted from plant, micro-organisms, and animal or mineral sources. This term does not apply to compounds synthesized or produced by biological processes, including heat and mechanical processing.

Synthetically compounded or simulated

Derived through a process which chemically changes a material extracted from naturally occurring plant, animal, microbial or mineral sources, excepting microbiological, mechanical and heat processes.

Organic Land Care Standard

Organic Land Care Practices

This Standard classifies practices according to their ability to achieve the principal aims of Organic Land Care. As such it sets out objectives, but does not generally prescribe how these objectives are to be achieved, as each landscape is unique, and specific activities or methods may produce different results in different circumstances.

Example: This Standard does not discuss the merits of specific methods for pruning plants. Instead it only directs that any landscape maintenance practice "**avoid or minimize permanent injury to plants**", and "**prevent the introduction or spread of undesired organisms**".

Conversely, seemingly identical situations may require different intervention.

Example: The required landscape design practice "**protecting and enhancing biodiversity**" can be achieved through many different methods, including: diverse multi-storey plantings, creating wildlife habitat, increasing soil organic matter, protecting the landscape from traffic, introducing predacious insects, etc.

Organic Land Care practitioners must have the knowledge and experience to choose the most appropriate methods and activities to achieve the landscape design and management objectives under this Standard.

Classification of Organic Land Care Practices

This Standard classifies practices as **required**, **preferred**, and **prohibited**.

Required: Organic Land Care practitioners shall use these practices.

Preferred: Organic Land Care practitioners should use these practices where possible.

Prohibited: Organic Land Care practitioners shall not use these practices.

General Requirements

Required:	<ul style="list-style-type: none">• Employing practices for their ability to enhance and support natural processes within healthy landscape ecosystems• Maintaining tools and machinery in optimal working condition
Preferred:	<ul style="list-style-type: none">• Preparing and / or working to a landscape management plan
Prohibited:	<ul style="list-style-type: none">• Using or introducing genetically modified organisms• Using or introducing intentionally manufactured nano-technology products

Resource Management

Resource management concerns itself with the management of **water, soil** and **air**.

Water Management

Water circulates through the environment, resulting in the adaptation of whole ecosystems to the relative presence and quality of water. Any practices that affect the quantity, quality or direction of flow of water directly affect not only the immediate environment, but ecosystems far removed from the origin of the disturbance.

For instance, applying manure can affect surface or ground water over a large area; redirecting natural water courses, or interrupting the circulation of water, affects whole ecosystems.

Landscape activities with a direct impact on water include:

- changing grades
- changing drainage patterns
- collecting and storing water
- modifying the soil environment
- changing the vegetation
- installing structures and impermeable surfaces
- irrigating landscapes
- using and disposing substances that dissolve in, or are carried with water.

None of these activities are intrinsically right or wrong, but must be employed for their ability to achieve the landscape design and management objectives with minimal impact on the quality and natural circulation of water.

Required:	<ul style="list-style-type: none"> ● Providing the appropriate quantity and quality of water to maintain the health of the landscape
Preferred:	<ul style="list-style-type: none"> ● Conserving and retaining water in the landscape through appropriate grades, structures, soil management, vegetation and water use where permitted under legislation
Prohibited:	<ul style="list-style-type: none"> ● Creating grades and drainage patterns that result in water being discharged onto neighbouring property without prior consent ● Using water in a manner that results in the degradation of soil fertility or biodiversity ● Draining or filling aquatic or wetland habitats, or degrading riparian areas ● Using, handling, storing or disposing of any substance or product in a manner that results in the contamination of water

Air Management

Life on earth, as we know it, has evolved because of the relative presence and combination of specific gases contained in the air. Air also acts as a carrier for small particles and organisms.

All processes and activities affect the composition and movement of air, and the presence and quantities of particles and organisms carried in the air. This affects the abundance, distribution and health of living organisms.

Landscape management activities with a direct impact on air include:

- selecting and placing plants and structures
- disposing of waste, including burning, dumping and composting
- compacting the soil

- changing water conditions in the soil and air
- using equipment and machinery
- emitting substances into the air

All landscape management practices must be employed for their ability to achieve the landscape design and management objectives in a way that protects and enhances the quality and circulation of air.

Required:	<ul style="list-style-type: none"> • Optimizing the circulation of air throughout the environment above and below ground
Preferred:	<ul style="list-style-type: none"> • Minimizing emissions into the air • Minimizing noise
Prohibited:	<ul style="list-style-type: none"> • Using, handling, storing or disposing of any substance or product in a manner that result in the contamination of air

Soil Management

The soil is a complex ecosystem in its own right: a diverse and interdependent biological, chemical and structural system composed of minerals, organic substances, air, water, microorganisms, plants and animals. Yet its processes are intricately linked with the larger ecosystem, of which soil is but one of many interrelated parts.

The structural and mineral components of the soil directly affect the diversity and health of the organisms dwelling there, including plants, while their biological processes in turn alter the structure and mineral composition of the soil. Each organism makes a unique contribution to this process: it is a delicate yet dynamic balance, fuelled by the constant recycling of organic matter.

The reduction of organic matter within the system results in a direct reduction of the biological activity of the soil. This in turn results in reduced plant growth and health, and the reduced vitality of the ecosystem as a whole.

It is a principal aim of Organic Land Care to work as much as possible within closed systems with regard to organic matter and nutrient cycling, as organic matter introduced into one system must inevitably be removed from another. Such practice is unsustainable from an overall ecological perspective.

Landscape management activities with a direct impact on soil include:

- changing the organic matter content of the soil
- changing the soil structure, texture and fertility
- changing the water conditions within the environment
- changing biodiversity above ground

All landscape management practices must be evaluated for their ability to achieve the desired landscape design and management objectives in a way that protects and enhances the long term biological activity of the soil.

Required:	<ul style="list-style-type: none"> ● Maintaining or increasing soil organic matter content ● Preventing soil erosion ● Preventing and / or relieving soil compaction in planted areas ● Applying nutrient specific fertilizers and pH altering products based on soil or tissue analysis
Preferred:	<ul style="list-style-type: none"> ● Using the existing soil from the site ● Recycling organic matter in place ● Composting and reusing organic matter on site ● Increasing biodiversity above and below ground
Prohibited:	<ul style="list-style-type: none"> ● Applying materials that inhibit the cycling of organic matter, air and water in planted areas ● Applying materials, or using practices that result in the degradation of soil fertility or soil structure in planted areas ● Applying materials, or using practices that result in the

	<p>degradation of soil biodiversity in planted areas</p> <ul style="list-style-type: none"> ● Using, handling, storing or disposing of any substance or product in a manner that results in the contamination of soil ● Disposing of organic matter in waste disposal facilities where composting alternatives exist
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Landscape Management

Landscape management involves the **design, construction and maintenance** of landscapes. It is a deliberate intervention in natural processes to obtain a specific ecological, utilitarian or aesthetic result.

Over the long term landscapes can only be maintained in good health if the practices, tools, products and substances chosen to create and maintain them support the diverse and interdependent relationships between all components of the environment.

Landscape Design

Landscape design is the conceptual creation of a landscape. This is the ideal time to consider the social and ecological impacts of the planned landscape, and the impacts of the practices, tools, products and substances used to create and maintain them.

Much of the success of the planned landscape depends on how well the vegetation has been matched to the unique conditions and the desired functions of the site. Landscape design requires the integration of knowledge from many different disciplines, and a thorough understanding of local conditions. Design considerations include:

- microclimates
- light conditions
- soil properties
- wind patterns and air circulation
- temperature range
- moisture characteristics
- condition of existing vegetation and wildlife
- physical limitations of the site

- relationship of the site to its environment
- intended use for the site
- cultural and space requirements of desired plants
- products and practices to install and maintain the landscape.

Required:	<ul style="list-style-type: none"> ● Optimizing biodiversity ● Developing a landscape management plan, which outlines the design objectives, and the practices and products that will be employed to achieve these design objectives
Preferred:	<ul style="list-style-type: none"> ● Leaving native ecosystems intact ● Creating ecosystems that are sustainable with minimal human intervention ● Specifying native plants ● Specifying plants adapted to local conditions and purchased from local suppliers where available ● Specifying plants whose characteristics and cultural requirements are appropriate for the site ● Creating appropriate conditions for plant health ● Creating appropriate barriers or buffer zones to protect organically managed landscapes from contamination through neighbouring non-organic practices ● Creating or maintaining natural buffers along watercourses and wetland habitat ● Communicating with neighbouring land owners about landscape modifications that may cause changes beyond the landscape boundary
Prohibited:	<ul style="list-style-type: none"> ● Selecting plants known to be invasive in the area or in similar environments

Landscape Construction

Landscape construction is the deliberate structural alteration of the environment to meet specific landscape design or management objectives.

The intervention required to achieve the desired objectives may be minimal or, at the other extreme, may involve the creation of a complete and fully functioning ecosystem in a highly disturbed site.

Landscape construction activities include removing and installing:

- soil
- plants
- water features and irrigation
- structures such as stairs, fences, retaining walls, arbours and trellises, buildings, decks, paths, driveways, etc.

The success of the landscape depends on how well the practices and materials employed in the construction of the landscape support the design objectives, and on their wider social and ecological impact on the environment.

Required:	<ul style="list-style-type: none">● Using the least invasive construction methods and tools to achieve the landscape design objectives● Avoiding or minimizing injury to existing plants, above and below ground● Limiting soil compaction to areas required for structural support, and alleviating compaction in planted areas● Disposing of waste materials in the most environmentally sound manner available
Preferred:	<ul style="list-style-type: none">● Using the existing soil from the site● Using the most environmentally benign building materials available● Using renewable, biodegradable and recycled resources from

	<p>local sources</p> <ul style="list-style-type: none"> ● Using plants and seeds from certified organic sources ● Minimizing and recycling waste ● Sourcing plants and seeds that have been cultivated rather than removed from the wild, except where salvaged from an area where the vegetation will be destroyed for other reasons
Prohibited:	<ul style="list-style-type: none"> ● Damaging neighbouring properties and vegetation without prior permission

Landscape Maintenance

Landscape maintenance practices modify the environment to improve its health, function or appearance.

Landscape maintenance activities include:

- maintaining plants
- installing and removing plants
- managing the soil and water conditions of the landscape
- managing landscape pests and diseases

Organic Land Care seeks to prevent landscape problems by creating healthy ecosystems that provide for the needs of all the organisms contained therein. Organic Land Care is an integrated approach, in which all practices are evaluated and used for their ability to enhance and support the natural processes within the ecosystem, and to minimize damage to any part thereof.

The success of the landscape depends on how well the maintenance practices, tools, products and substances used support landscape health, and on their wider social and ecological impact on the environment.

Required:	<ul style="list-style-type: none"> ● Working to a landscape management plan
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	<ul style="list-style-type: none"> ● Maintaining or increasing ecosystem biodiversity ● Modifying the environment to increase the overall health of the ecosystem ● Avoiding or minimizing injury to plants, above and below ground
Preferred:	<ul style="list-style-type: none"> ● Preventing the introduction or spread of undesired organisms ● Employing biological, physical and mechanical methods to control undesired organisms ● Removing or replacing plants that are poorly suited for the environmental conditions ● Composting diseased plant parts

Organic Land Care Substances and Materials

Organic Land Care emphasizes management practices rather than the use of substances. Organic Land Care practitioners should minimize off-site inputs by employing landscape management practices that work in harmony with natural biological systems.

Organic Land Care practitioners should always use the most environmentally benign products available, and use, as much as possible, renewable, biodegradable and recycled resources from local sources. Material inputs should be viewed as supplementary tools, and are not be used to indefinitely support a poorly designed or badly managed landscape.

All materials, products and substances must be used with awareness and care for the environment, and for the health and safety of the workers involved and the community at large.

Classification of Organic Land Care Substances and Materials

The information in this list conforms to the Canada Organic Standards for Agriculture, **but is not identical**. The information has been selected for relevance to the Organic Land Care industry, and reorganized and cross referenced for easier use.

Substances and materials are classified as

- Allowed (A)
- Prohibited (X)

They are further classified by type:

- Building Materials and Related Materials (B)
- Cleaners (C)
- Fertilizers, Growing Media, Soil Amendments and Related Substances (F)
- Pest Management Substances (P)

Some products may be allowed for one use but restricted or prohibited for another.

Any product or material containing more than one ingredient is classified according to the status of the most restricted ingredient. Consideration must be given to prohibited formulants (see 'Formulants' listing) and inert ingredients, although inert ingredients are not commonly listed on the product label.

List of Organic Land Care Substances & Materials

Use	Type	Name of Material	ANNOTATION
A	C, P	Acetic acid	Cleaner: Non-synthetic food grade sources may be used to clean irrigation systems. Food grade forms of both non-synthetic and synthetic sources allowed as both equipment and structure cleaners. Pesticide: Non-synthetic food grade sources allowed as a herbicide, adjuvant or pH regulator for pesticide applications. As a herbicide, shall be used in a manner that does not lower soil pH.
A	P	Adhesives for sticky traps and barriers	Shall not contain prohibited pesticides or other prohibited substances.
<i>X</i>		<i>Alkaline copper quaternary (ACQ).</i>	<i>Prohibited.</i>
A	C, P	Alcohol	Cleaner: Non-synthetic ethyl alcohols (ethanol) may be used to clean irrigation systems, structures and equipment. Synthetic sources of ethyl and isopropyl alcohols may be used only as disinfectants. Pesticide: Non-synthetic ethyl alcohols are allowed as solvents to extract botanical insecticides.
A	F	Alfalfa meal & pellets	Use organic alfalfa unless commercially unavailable. Ensure non-organic alfalfa is not a product of genetic engineering.
		Algae	See 'Aquatic plant products'.
A	F	Amino acids, non-synthetic	Amino acids produced by plants, animals and micro-organisms that are not from genetic engineering, and are extracted or isolated by hydrolysis, or by physical or other non-chemical means are considered non-synthetic. Non-synthetic amino acids may be used as plant growth regulators or chelating agents.
<i>X</i>		<i>Amino acids, synthetic</i>	<i>Amino acids that are considered to be synthetically produced or produced from genetically modified organisms are prohibited.</i>
<i>X</i>		<i>Ammonia products</i>	<i>All ammonia products are prohibited for plant nutrition including: anhydrous ammonia, aqua ammonia, ammonium nitrate, ammonium phosphate, ammonium sulphate, and ammonium soaps.</i>
<i>X</i>		<i>Ammoniated micronutrients</i>	<i>Includes ammonium molybdate, ammonium pentaborate, ammoniated zinc chloride, and ferrous ammonium sulphate.</i>
<i>X</i>		<i>Ammoniated zinc chloride</i>	<i>Prohibited.</i>
A	P	Ammonium carbonate	For use as bait in insect traps and for monitoring purposes only. Shall not be in contact with plants or soil.
<i>X</i>		<i>Ammonium lignosulphate</i>	<i>Prohibited.</i>
<i>X</i>		<i>Ammonium molybdate</i>	<i>Prohibited.</i>
<i>X</i>		<i>Ammonium nitrate</i>	<i>Prohibited.</i>
<i>X</i>		<i>Ammonium pentaborate</i>	<i>Prohibited.</i>

X		<i>Ammonium phosphate</i>	<i>Prohibited.</i>
A	P	Ammonium soaps	Pesticide: May be used as an animal repellent -i.e. deer. Cannot be applied to soil or edible portions of plants. Nutrient: Prohibited as plant nutrient.
X		<i>Ammonium stillage</i>	<i>Prohibited</i>
X		<i>Ammonium sulphate</i>	<i>Prohibited.</i>
X		<i>Animal manure, un-processed</i>	<i>Unprocessed animal manure is prohibited for use in any areas or plantings exposed to human contact in urban environments, including food gardens.</i>
A	F	Animal manure, processed	Manures that are treated by mechanical and/or physical (including heat) methods and/or to which are added biological, mineral or other substances listed are allowed. The Organic Land Care practitioner must be assured that the best practices known to eliminate human pathogens during the treatment have been used.
X		<i>Anhydrous ammonia</i>	<i>Prohibited.</i>
X		<i>Antibiotics, synthetic</i>	<i>Synthetic antibiotics are prohibited unless explicitly allowed.</i>
X		<i>Anti-coagulants</i>	<i>Prohibited. Includes diphacinone and chlorophacinone. May not be used directly or in bait stations.</i>
X		<i>Aqua ammonia</i>	<i>Prohibited.</i>
A	F	Aquatic plant products	Natural (non-synthetic) extracts are allowed. Extraction with synthetic solvents is prohibited except for potassium hydroxide or sodium hydroxide, provided the amount of solvent used does not exceed the amount necessary for extraction. Of the two products, potassium hydroxide is the preferred choice. Aquatic plant products are prohibited if they contain other synthetic preservatives, such as formaldehyde, or are fortified with otherwise prohibited plant nutrients.
X		<i>Aromatic petroleum solvents</i>	<i>Prohibited.</i>
X		<i>Arsenate-treated lumber</i>	<i>Includes copper chromium arsenate. Existing arsenate-treated lumber does not need to be removed and since problems with disposal of treated posts is part of the concern with them, recycling of existing posts within the landscape is allowed. Arsenate-treated lumber cannot be in contact with soil used to grow vegetables (boxed beds).</i>
X		<i>Arsenic</i>	<i>Prohibited.</i>
		Arthropod pathogens	See 'Biological organisms'.
		Arthropod predators and parasitoids	See 'Biological organisms'.
		Arthropods	See 'Biological organisms'.
A	C, F, P	Ascorbic acid	Cleaner: May be used to clean irrigation systems, structures and equipment. Neutralizer: To neutralize chlorine and chloramine treated water for live culture preparations Nutrient: Allowed as a natural growth promoter (non-synthetic).

			Pesticide: Allowed as a pH regulator.
A	F	Ash	Ash from plant and animal sources only. Ash shall not exceed the limits (category C1) for acceptable levels (mg/kg) of arsenic, cadmium, chromium, copper, lead and mercury specified in the Guidelines for the Beneficial Use of Fertilizing Residuals, published by the Quebec Ministère du Développement durable, de l'Environnement et des Parcs, Direction du milieu rural. Shall not cause buildup of heavy metals in soil over repeated applications.
<i>X</i>		<i>Ash (prohibited)</i>	<i>Ash from burning minerals, manure, coloured paper, plastics or other synthetic substances is prohibited.</i>
<i>X</i>		<i>Avermectin</i>	<i>Prohibited.</i>
		Azadiractin	See 'Neem' extract, powder and seeds'.
		Basalt	See 'Mined minerals, unprocessed'.
		Bacillus thuringiensis	See 'Biological Organisms'.
<i>X</i>		<i>Bactericides, synthetic</i>	<i>All synthetic bactericides that are not explicitly allowed or restricted are prohibited.</i>
A	P	Baits for rodent traps	Shall not contain synthetic substances
A	C, P	Baking soda	Sodium bicarbonate and potassium bicarbonate. Cleaner: May be used to clean irrigation systems, structures and equipment. Pesticide: Allowed
		Basic copper sulphate	See 'Copper products (allowed)'.
		Bentonite	Soil amendment: See 'Mined minerals, unprocessed'.
<i>X</i>		<i>Benzene</i>	<i>Prohibited.</i>
A	F	Biodynamic preparations for compost	Chamomile (Prep. 503), dandelion (Prep. 506), oak bark (Prep. 505), stinging nettle (Prep. 504), valerian (Prep. 507), and yarrow flowers (Prep. 502).
A	P	Biodynamic preparations for disease control	Horsetail spray (Prep 508) and horn silica (Prep 501).
A	F	Biodynamic preparations for soil & plants	Horn manure spray (Prep. 500) or horn silica (Prep. 501).
A	P	Biological organisms	Living organisms that benefit plant production by reducing pest populations, such as <i>Bacillus thuringiensis</i> , spinosad, granulosis (e.g. viruses, bacteria, protozoa, fungi, insects nematodes). No organisms from genetic engineering.
<i>X</i>		<i>Biosolids</i>	<i>Prohibited.</i>
		Biotite (iron, magnesium or aluminum silicates)	See 'Mined minerals, unprocessed'.
<i>X</i>		<i>Bird baits, poison</i>	<i>Prohibited.</i>
A	C	Bleach	Cleaners: a. Calcium hypochlorite; b. Chlorine dioxide;

			c. Sodium hypochlorite; d. Ozone; and e. Hydrogen peroxide. Not to exceed 10% solution by volume. Residual free chlorine levels for water applied to land shall not exceed the maximum limits under the applicable regulations for safe drinking water.
A	F	Blood and blood meal	Nutrient: Allowed only if sterilized. Pesticide: see 'Repellants'. <i>Note: it is questionable whether sterilization disables the spread of prion diseases.</i>
A	F	Bone meal	Allowed only if guaranteed free of specific risk materials (e.g. prions associated with Mad Cow Disease). <i>Note: it is questionable whether sterilization disables the spread of prion diseases.</i>
		Borate	See 'Boron products (allowed)' & (prohibited)'.
		Borax	Also known as sodium tetraborate. See 'Boron products (allowed)'.
		Bordeaux mixes	See 'Copper products (allowed)'.
A	P	Boric acid	May be used for structural pest control (i.e. ants). No direct contact with plants is allowed.
A	B, F, P	Boron products (allowed)	Nutrient: Sodium tetraborate (borax and anhydrous) and octaborate may be used to adjust nutrient imbalances but only with a known boron deficiency. Pesticide: Boric acid may be used for structural pest control (i.e. ants). No direct contact with plants is allowed. Wood preservative (pesticide): Sodium tetraborate (borax and anhydrous), and sodium octaborate may be used.
<i>X</i>		<i>Boron products (prohibited)</i>	<i>Ammonium pentaborate is prohibited.</i>
A	P	Botanical pesticides	Botanical pesticides must be used in conjunction with a Landscape Management Plan, and cannot be the primary method of pest control in the landscape. The least toxic botanicals shall be used in the least ecologically disruptive way possible.
		Burned lime	See 'Lime (allowed) & (prohibited)'.
<i>X</i>		<i>Calcium carbide</i>	<i>Prohibited.</i>
		Calcium carbonate	See 'Limestone'.
A	F, P	Calcium chloride	Nutrient and pesticide: Natural sources and food grade quality only. Can be used to adjust nutrient deficiencies and physiological disorders. Shall not cause buildup of salts in soil over repeated applications.
A	P	Calcium hydroxide (allowed)	Pesticide: May be used for disease control as a component of Bordeaux Mix. Also known as hot lime, hydrated lime or slaked lime.
<i>X</i>	<i>F</i>	<i>Calcium hydroxide (prohibited)</i>	<i>Nutrient: Prohibited. Also known as hot lime, hydrated lime or slaked lime.</i>
		Calcium ligninsulphonate	Construction: See 'Lignin sulphonates'. Nutrient: See 'Chelates (allowed)'.
<i>X</i>		<i>Calcium nitrate</i>	<i>Prohibited.</i>
		Calcium oxide	See 'Lime (allowed) & (prohibited)'.

		Calcium polysulfide	See 'Lime Sulphur'.
A	F	Calcium sources (allowed)	Natural sources such as shells from aquatic animals, limestone, dolomite (not slaked), aragonite, eggshell meal, lime from sugar processing and mined CaCO ₃ .
<i>X</i>	<i>F</i>	<i>Calcium sources (prohibited)</i>	<i>Calcium products which have been used in controlled atmosphere storage are prohibited as plant nutrients.</i>
		Calcium sulphate	See 'Gypsum (mined source)'.
<i>X</i>		<i>Calcium, synthetically derived</i>	<i>Prohibited.</i>
A	F	Cannery wastes (fish or vegetable)	Must be thoroughly composted before use and confirmed to be uncontaminated by pesticides and/or heavy metals.
		Canola seed meal	See 'Seed Meals'.
A	F	Carbon dioxide	For soil and greenhouse use.
<i>X</i>		<i>Carbonates</i>	<i>Prohibited.</i>
A	F	Cardboard	Cardboard that is not waxed or impregnated with fungicides or other prohibited substances may be used as mulch or compost feedstock.
<i>X</i>		<i>Cardboard, waxed</i>	<i>Prohibited.</i>
<i>X</i>		<i>Carpet</i>	<i>Prohibited.</i>
		Caustic potash	See 'Potassium hydroxide'.
		Caustic soda	See 'Lye'.
A	F	Chelates (allowed)	Natural chelates (such as amino acids, citric acid, tartaric acid, and other di- and tri- acid chelates) ,and lignin sulfonate are allowed. Synthetic chelating agents are not allowed with micronutrients unless they are specifically listed for such use.
<i>X</i>		<i>Chelates (prohibited)</i>	<i>Prohibited chelating agents include DTPA, EDTA, HEDTA, NTA, glucoheptonic acid and its salts, and synthetic amino acids.</i>
<i>X</i>		<i>Chilean nitrate</i>	<i>Prohibited.</i>
		Chloride of lime	See 'Calcium chloride'.
<i>X</i>		<i>Chlorinated hydrocarbons</i>	<i>Prohibited.</i>
		Chlorine	See 'Bleach'.
		Chlorine dioxide	See 'Bleach'.
<i>X</i>		<i>Chlorophacinone</i>	<i>Prohibited.</i>
		Cinnamon	See 'Repellants'.
A	C, P	Citric Acid	Cleaner: May be used to clean irrigation systems, structures and equipment. Pesticide: Allowed as a pH regulator.
		Citrus products	See 'Repellants'.
A	B, F	Clay	Construction: Allowed. Nutrient: Bentonite, perlite and zeolite as a soil amendment or seed pellet additive. See 'Mined minerals, unprocessed'.

		Coal	See 'Humic acid'.
		Codling moth Granulosis virus	See 'Biological organisms'.
A	F	Colloidal rock phosphate	Shall not be fortified or processed with synthetic chemicals. Cadmium shall not exceed 90 mg/kg P ₂ O ₅ .
A	F	Compost	Composting refers to the managed-process by which organic materials are digested by microorganisms over sufficient time and / or with sufficient heat to effectively stabilize the nutrients, reduce pesticide residues, and kill weed seeds and pathogens. Compost must be derived from allowed feedstocks. See 'Compost feedstocks (allowed) & (prohibited)'.
A	F	Compost feedstocks (allowed)	Acceptable feedstocks include: a. food waste, minimizing known genetically modified foods; b. animal manures (excepting domestic pet waste and manures derived from confined livestock operations), with preference for manures sourced from organic farming operations; manures shall be guaranteed to be free of specific risk materials; c. animal products and by-products (including fishery); d. plants and plant by-products (including forestry and source-separated yard debris, such as grass clippings and leaves); e. soils and minerals conforming to this standard.
X		<i>Compost feedstocks (prohibited)</i>	<i>Prohibited feedstocks include:</i> <i>a. sewage sludge;</i> <i>b. compost starter and feedstocks fortified with prohibited substances ;</i> <i>c. leather by-products;</i> <i>d. glossy paper;</i> <i>e. waxed cardboard;</i> <i>f. paper containing coloured ink.</i>
A	F	Compost tea	Compost used must be made from allowed feedstocks.
A	B	Concrete	Fresh concrete may temporarily change the soil pH in its vicinity. Appropriate protection measures should be taken.
		<i>Copper ammonia base</i>	<i>See 'Copper products (prohibited)'.</i>
		<i>Copper ammonium carbonate</i>	<i>See 'Copper products (prohibited)'.</i>
X		<i>Copper azole (CA)</i>	<i>Prohibited.</i>
X		<i>Copper chromium arsenate</i>	<i>Prohibited.</i>
		Copper hydroxide	Construction: See 'Wood preservatives (allowed)' and 'Copper products (allowed)'. Pesticide: See 'Copper products (allowed)'.
		<i>Copper nitrate</i>	<i>See 'Copper products (prohibited)'.</i>
		Copper oxide	Construction: See 'Wood preservatives (allowed)' and 'Copper products (allowed)'. Nutrient: See 'Copper products (allowed)'. Pesticide: See 'Copper products (allowed)'.

		Copper oxychloride	Construction: See 'Wood preservatives (allowed)' and 'Copper products (allowed)'. Nutrient: See 'Copper products (allowed)'. Pesticide: See 'Copper products (allowed)'.
A	B, F, P	Copper products (allowed)	<u>Wood preservative</u> : Bordeaux mix, Copper hydroxide, copper oxychloride, copper oxide. <u>Pesticide</u> : Bordeaux mix, Copper hydroxide, copper oxychloride, copper oxide, copper sulphate. <u>Nutrient</u> : Basic copper sulphate, copper oxide, copper sulphate and copper oxysulphate may be used to correct known copper deficiencies. All shall be used in a manner that prevents excessive copper accumulation in the soil. Buildup of copper in soil may prohibit future use. Use with caution. No visible residue shall be allowed on plant surfaces.
		Copper oxysulphate	See 'Copper products (allowed)'.
<i>X</i>		<i>Copper products (prohibited)</i>	<i>Copper ammonia base, copper ammonium carbonate, copper nitrate and cuprous chloride are prohibited.</i>
		Copper sulphate	Nutrient: See 'Copper products (allowed)'. Pesticide: See 'Copper products (allowed)'. Wood preservative: See 'Wood preservatives (prohibited)'.
<i>X</i>		<i>Copper zinc chromate</i>	<i>Prohibited.</i>
		Corn gluten meal	See 'Seed Meals'.
		Corn meal	See 'Seed Meals'.
		Cotton seed meal	See 'Seed Meals'.
A	F	Crab shells	Allowed.
		Cuprous chloride	See 'Copper products (prohibited)'.
		Cytokinins	See 'Growth regulators for plants (allowed)'.
<i>X</i>		<i>Creosote</i>	<i>Prohibited.</i>
A	C	Detergents	Biodegradable only (whose biodegraded components are not more harmful than the original components). On equipment.
		Di-acid chelates	See 'Chelates (allowed)'.
A	P	Diatomaceous earth	Only non-heated forms may be used. Shall not contain synthetic pesticides or synergists.
<i>X</i>		<i>Diphacinone</i>	<i>Prohibited.</i>
<i>X</i>		<i>Dolomite, fired</i>	<i>Prohibited.</i>
A	F	Dolomite, mined	Magnesium carbonate and calcium carbonate. May cause build-up of magnesium. Use with caution. Must be from a natural source. See 'Limestone'.
<i>X</i>		<i>Dolomite, slaked</i>	<i>Prohibited.</i>

A	P	Dormant oils	Allowed for use as a dormant spray on woody plants only. Shall not contain any prohibited insecticides or other ingredients.
A	C	Drip irrigation cleaners (allowed)	Preferred drip irrigation cleaners include vinegar, citric acid, other naturally occurring acids, and include bleach and detergents. See 'Bleach' and 'Detergents'.
<i>X</i>		<i>Drip Irrigation cleaners (prohibited)</i>	<i>Prohibited drip irrigation cleaners includes nitric, phosphoric, and sulphuric acids.</i>
<i>X</i>		<i>DTPA</i>	<i>Prohibited.</i>
A	B	Dust suppressants (allowed)	Water, lignin sulphonates and non-synthetic plant, mineral, or animal based materials. See 'Lignin sulphonates'.
<i>X</i>		<i>Dust suppressants (prohibited)</i>	<i>All materials for dust suppression not specifically allowed are prohibited including, but not limited to asphalt and all petroleum products.</i>
<i>X</i>		<i>EDTA</i>	<i>Prohibited.</i>
A	F	Egg shell meal	Allowed.
		Eggs	See 'Repellants'.
A	F	Enzymes	Acceptable if derived microbiologically from natural substances and not fortified with synthetic plant nutrients. Shall not be obtained from genetic engineering.
		Epsom salts	See 'Magnesium sulphate'.
		Essential oils	See 'Plant Extracts'
		Ethanol	See 'Alcohol'.
A	C	Equipment cleaners (allowed)	Allowed substances include acetic acid, carbonic acid, citric acid, hydrogen peroxide, soap, water and other non-synthetic cleaners. Bleach and detergents are restricted for cleaning spray tanks, irrigation drip lines, structures and other farm equipment. See 'Acetic acid', 'Bleach', 'Citric acid', 'Detergents' and 'Soaps' for any additional restrictions.
<i>X</i>		<i>Equipment cleaners (prohibited)</i>	<i>All synthetic equipment cleaners that are not explicitly allowed or restricted are prohibited.</i>
		Ethyl Alcohol	See 'Alcohol'.
A	F	Feather meal	If composed of feather meal only and unadulterated with non-allowed materials.
		Feldspar	See 'Mined minerals, unprocessed'.
		Ferric and ferrous compounds	See 'Iron products (allowed) & (prohibited)' and 'Trace elements (micronutrients)'
<i>X</i>		<i>Ferric chloride</i>	<i>Prohibited.</i>
		Ferric oxide	See 'Iron products (allowed)' and 'Trace elements (micronutrients)'
		Ferric sulfate	See 'Iron products (allowed)' and 'Trace elements (micronutrients)'
<i>X</i>		<i>Ferrous ammonium sulphate</i>	<i>Prohibited.</i>
		Ferrous sulphate	See 'Iron products (allowed)' and 'Trace elements (micronutrients)'
A	F	Fertilizers, blended (allowed)	If composed entirely of allowed materials. See classification for each separate ingredient. Inert ingredients for pelletizers, etc. must be individually approved or be from natural sources.

<i>X</i>		<i>Fertilizers, blended (prohibited)</i>	<i>If the product contains any prohibited materials.</i>
		Fish emulsion or solubles	See 'Fish products'.
—		Fish farm wastes	Shall be composted
		Fish hydrolysate	See 'Fish products'.
		Fish meal, powder	See 'Fish products'.
A	F	Fish products (allowed)	Natural substance or those derived from natural substances without the addition of ethoxyquin or other chemically synthesized substances or chemical treatment. Liquid fish products can be pH adjusted using (in preferential order) organic vinegar, organic citric acid, or phosphoric acid. The amount of acid used cannot exceed the minimum amount needed to lower the pH to 3.5.
<i>X</i>		<i>Fish products (prohibited)</i>	<i>Fish products are prohibited if they contain synthetic preservatives other than those specifically allowed, or are fortified with otherwise prohibited plant nutrients.</i>
A	P	Flame torches	Allowed for vegetation control.
		Flax seed meal	See 'Seed Meals'.
<i>X</i>		<i>Formaldehyde</i>	<i>Prohibited.</i>
A	P	Formulants (allowed)	Only formulants that are classified by the Pest Management Regulatory Agency (PMRA) in Regulatory Note REG2007-04 as List 4A or 4B or are non-synthetic may be used with substances in this list that are applied directly to plants. Formulants classified as List 3 in PMRA Regulatory Note REG2007-04 may be used with passive pheromone dispensers.
<i>X</i>		<i>Formulants (prohibited)</i>	<i>Formulants classified as List 1 or List 2 in PMRA Regulatory Note REG2007-04 are prohibited.</i>
		Fulvic acid	See 'Humates'.
<i>X</i>		<i>Fungicides, synthetic</i>	<i>Prohibited unless specifically allowed.</i>
		Garlic	See "Repellants".
<i>X</i>		<i>Genetically modified organisms</i>	<i>Prohibited</i>
A	P	Geotextiles	Shall not contain any prohibited substances. Construction: Allowed in the construction of paving, retaining walls, and irrigation. Weed control: Allowed as seasonal or temporary soil cover. Shall not be incorporated into the soil or left to decompose: shall be removed at the end of the growing season. Prohibited as a mulch in planted areas.
A	F	Gibberellic acid	Acceptable if made from a fermentation process and not fortified with prohibited synthetic substances. The fermentation process shall not use genetically modified organisms. See 'Growth regulators for plants

			(allowed)'.
		Glauconite	Also known as Greensand. See 'Mined minerals'.
X		<i>Glucuheptonic acid</i>	<i>Glucuheptonic acid and its salts are prohibited .</i>
		Granite dust (allowed)	See 'Mined minerals'.
X		<i>Granite dust (prohibited)</i>	<i>Sources that are mixed with petroleum products, such as from stone engraving, are prohibited.</i>
		Granulosis	See 'Biological organisms'
		Grass clippings	See 'Plants'.
		Green manure	See 'Plants'.
		Greensand	Also known as Glauconite. See 'Mined minerals'.
A	F	Growth regulators for plants (allowed)	Natural plant hormones such as gibberellic acid, indole acetic acid (IAA) and cytokinins are allowed. Vitamin B1 is also allowed. Must not contain prohibited synthetic substances.
X		<i>Growth regulators for plants (prohibited)</i>	<i>All synthetic growth regulators not explicitly allowed are prohibited. Includes all formulations of the propagation hormone IBA (Indol-3-butyric acid) as well as the growth regulator NAA (1-Naphthalene acetic acid).</i>
A	F	Guano, bat or bird	Shall be decomposed and dried deposits from wild bats or birds. Domesticated fowl excrement is considered manure, not guano. See 'Compost' for the definition of compost.
X		<i>Gypsum, by-product</i>	<i>Gypsum produced as a by-product of superphosphate manufacture (the reaction of rock phosphate and sulphuric acid), from precipitation of sulphur dioxide gas with limestone, or from dry-wall rejects is prohibited.</i>
A	F	Gypsum, mined source	Mined source; for correcting calcium and/ or sulfur deficiencies and for amending soil salinity problems documented by soil and / or plant tissue testing. Sulphates produced using sulphuric acid are prohibited.
		Hair	See 'Repellants'.
		Hay	See 'Plants'.
X		<i>HEDTA</i>	<i>Prohibited.</i>
x		<i>Herbicides, synthetic</i>	<i>Prohibited unless specifically allowed.</i>
		Hormones	See 'Growth regulators for plants (allowed) & (prohibited)'.
		Hot lime	See 'Calcium hydroxide (allowed) & (prohibited)'.
X		<i>Human excrement</i>	<i>Prohibited.</i>
<u>A</u>	<u>F</u>	Humates, humic and fulvic substances	Permitted if extracted by microbial fermentation or potassium hydroxide. Shall not exceed the limits (category C1) for acceptable levels (mg/kg) of arsenic, cadmium, chromium, copper, lead and mercury specified in the Guidelines for the Beneficial Use of Fertilizing Residuals, published by the Quebec Ministère du Développement durable, de l'Environnement et des Parcs, Direction du milieu rural. Potassium hydroxide levels used in the extraction process may not exceed the amount required for extraction.
		Humic acid	See 'Humates'.

		Humus from worms and insects (vermi-compost)	See 'Worm castings'.
		Hydrated lime	See 'Calcium hydroxide (allowed) & (prohibited)'.
-		Hydrated magnesium sulphate	See 'Magnesium sulphate'.
A	P	Hydrogen Peroxide	Pesticide: Allowed for use as a fungicide. Cleaner: See 'Bleach'.
		IAA (Indole acetic acid)	See 'Growth regulators for plants (allowed)'.
<i>X</i>		<i>IBA (Indole-3-butyric acid)</i>	<i>Prohibited.</i>
A	P	Infra-red radiation (heat, light)	Allowed for vegetation control.
		Inoculants	See 'Microbial products (allowed) & (prohibited)'.
		Insecticidal soap	See 'Soap'
A	C	Iodine	Non-elemental only; not to exceed 5% solution, e.g. iodophors. May be used to clean irrigation systems, structures and equipment.
A	P	Ionizing radiation (allowed)	Ionizing radiation is allowed for use on peat moss carrier only, before addition of microbial inoculants.
<i>X</i>	<i>P</i>	<i>Ionizing radiation (prohibited)</i>	<i>Radiation is prohibited except as specified under 'Ionizing radiation (allowed)'.</i>
		Iron citrate	See 'Iron products (allowed)'.
A	F	Iron products (allowed)	Ferric oxide, ferric sulphate, ferrous sulphate, iron citrate, iron sulphate or iron tartrate may be used where a soil or plant nutrient deficiency is documented by soil or tissue testing. Sulphates produced using sulfuric acid are prohibited. All iron products are prohibited for pest or weed control purposes.
<i>X</i>		<i>Iron products (prohibited)</i>	<i>Includes ferrous ammonium sulphate, ferric chloride, iron nitrate and synthetic iron phosphate. See 'Trace elements (micronutrients)'.</i> <i>All iron products are prohibited for pest or weed control purposes.</i>
		Iron (ferric) sulphates	See 'Iron products (allowed)'.
		Iron tartrate	See 'Iron products (allowed)'.
A	B	Irrigation products	Polyethylene (Poly) and polyvinyl chloride (PVC) products are allowed.
		Isopropyl Alcohol	See 'Alcohol'.
		Kaolin clay	See 'Mined minerals, unprocessed'.
		Kainite	See 'Muriate of potash'
		Kelp and kelp products	See 'Aquatic plant products'.
		Kieserite	See 'Magnesium sulphate'.
<i>X</i>		<i>Killed microbial pesticides</i>	<i>These have been genetically modified and are therefore prohibited.</i>

		Landscape fabric	See 'Geotextiles'.
		Langbeinite (sulphate of potash magnesia)	See 'Mined minerals'.
		Latex paint, interior	See 'Plant protectants (allowed)'.
		Leaf mould	See 'Plants'.
<i>X</i>		<i>Leather by-products</i>	<i>Residues from hide processing. Likely to be highly contaminated with synthetic metals or solvents which are used in leather processing. Includes leather meal, leather tankage, and leather dust.</i>
		Leonardite	See 'Humates'.
A	B, F	Lignin sulphonate	Construction: Also known as lignosulphonic acid, calcium lignosulphate and sodium lignosulphate. Allowed as a formulant ingredient and a dust suppressant. Nutrient: See 'Chelates (allowed)'.
		Lignosulphonic acid	See 'Lignin sulphonate'.
		Lignite	See 'Humates'.
		Lignosulfonic acid	See 'Chelates (allowed)'.
		Lime, burned or burnt	Also known as calcium oxide or quicklime. See 'Lime (allowed)' & (prohibited)'.
A	C	Lime (allowed)	Also known as calcium oxide, burnt lime, or quicklime. May be used to clean irrigation systems, structures and equipment.
<i>X</i>		<i>Lime (prohibited)</i>	<i>Also known as calcium oxide, burnt lime, or quicklime. Prohibited as a nutrient source.</i>
		Lime, hot	See 'Calcium hydroxide (allowed) & (prohibited)'.
		Lime, hydrated	See 'Calcium hydroxide (allowed) & (prohibited)'.
		Lime, slaked	See 'Calcium hydroxide (allowed) & (prohibited)'.
A	P	Lime sulphur	Allowed as a fungicide, insecticide and acaricide (mite control) on plants."
A	B, F	Limestone	Construction: Allowed where the resulting pH change of the soil has no or minimal negative impact on the environment. Nutrient: Magnesium carbonate and calcium carbonate. May cause build-up of magnesium. Use with caution. Shall be from natural source. Oyster shell flour, limestone, dolomite (not slaked), aragonite, eggshell meal, lime from sugar processing and mined CaCO ₃ are allowed. Calcium products that have been used in controlled atmosphere storage are prohibited.
A	C	Lye	Also known as caustic soda and sodium hydroxide.
		Magnesium carbonate	Naturally occurring in dolomite and magnesite. See 'Limestone'.
		Magnesium chloride	Natural sources only. See 'Limestone'.
<i>X</i>		<i>Magnesium oxide</i>	<i>Prohibited.</i>

A	F	Magnesium rock	Natural substance or those derived from natural substances without addition of chemically synthesized substances or chemical treatments. See 'Mined minerals'.
A	F	Magnesium sulphate	Allowed for use with a known magnesium deficiency. Mined as kieserite or epsom salts (see also 'Mined minerals, and unprocessed mined minerals') or synthetically produced epsom salts. Sulphates produced using sulfuric acid are prohibited.
A	F	Manganese products (allowed)	Manganous oxide and manganese sulphate may be used to correct documented manganese deficiencies. See 'Trace elements (micronutrients)'.
X		<i>Manganese products (prohibited)</i>	<i>Manganese chloride, manganese nitrate and potassium permanganate are prohibited.</i>
X		<i>Manganese chloride</i>	<i>Prohibited.</i>
X		<i>Manganese nitrate</i>	<i>Prohibited.</i>
A	F	Manganese sulphate	May be used to correct documented manganese deficiencies.
A	F	Manganous oxide	May be used to correct documented manganese deficiencies.
		Manure	See 'Animal manure, unprocessed and processed'
X		<i>Methyl alcohol</i>	<i>Prohibited.</i>
X		<i>Methyl bromide</i>	<i>Prohibited.</i>
X		<i>Methyl sulphoxide</i>	<i>Prohibited.</i>
		Mica	See 'Mined minerals, unprocessed'.
		Microbial inoculants	See 'Microbial products' (allowed) & (prohibited).
A	F, P	Microbial products (allowed)	Allowable microbial products include Rhizobium bacteria, mycorrhizal fungi, Azolla, yeast and other microorganisms on compost, plants, seeds, soils and other components of the organic operation.
X		<i>Microbial products (prohibited)</i>	<i>Genetically modified organisms or viruses are prohibited.</i> <i>Microbial products are prohibited if the final product contains synthetic preservatives such as sodium sulphite, or they are fortified with otherwise prohibited plant nutrients.</i>
		Micronutrients	See 'Trace elements (micronutrients)'.
A	F, P	Milk	Shall not contain substances that are not allowed.
A	F, P	Mined minerals, and unprocessed mined minerals	A mined mineral must not have undergone any change in its molecular structure thorough heating or combining with other substances. Acceptable if the substance is not processed or fortified with synthetic chemicals. Mined minerals are regarded as supplements to a balanced organic soil building program. Some of the minerals that are mined can also be made synthetically or are byproducts of industry; investigate the source of any new substance. Sodium nitrate is prohibited.
		Mineral oils	See 'Dormant oils'.
A	F	Molasses	Shall be organic molasses unless not commercially available.

A	F	Molybdenum products	To correct documented molybdenum deficiencies. See 'Trace elements (micronutrients)'.
<i>X</i>		<i>Moth balls / crystals</i>	<i>Naphthalene and paradichlorobenzene are prohibited.</i>
A	F, P	Mulches (allowed)	Organic matter in the form of plant residue from organic sources is preferred. Non-organic sources of straw, leaves, grass clippings or hay etc. shall be free of pesticides and other contaminants. Shells and other animal derived materials free of pesticides and other contaminants are allowed. For animal manure see 'Animal manure, processed' and 'Animal manure, un-processed'. Wood chips and sawdust shall be from wood that has not been painted or treated with prohibited substances. Rocks, stone etc. See 'Rock, natural'.
<i>X</i>		<i>Mulches (prohibited)</i>	<i>Glossy paper and paper with coloured inks are prohibited.</i> <i>Plastic sheeting and landscape fabric are prohibited in planted areas</i>
A	F	Muriate of potash	Mined potassium salts (e.g. sylvinite, kainite). Shall not cause buildup of salts in soil over repeated applications.
		Mushroom compost	See 'Compost'.
		Mustard seed meal	See 'Seed Meals'.
<i>X</i>		<i>NAA (1-Naphthalene acetic acid)</i>	<i>Prohibited.</i>
<i>X</i>		<i>Nano-technology products</i>	<i>Prohibited.</i>
<i>X</i>		<i>Naphthalene</i>	<i>Prohibited.</i>
		Naturally occurring biological organisms (e.g. worms) and their products	See 'Worm castings'.
A	P	Neem extract, powder and seeds	Allowed when registered for use in Canada
		Newspaper	See 'Paper (allowed) & (prohibited)'
<i>X</i>		<i>Nicotine</i>	<i>Prohibited.</i>
<i>X</i>		<i>Niter</i>	<i>Prohibited.</i>
<i>X</i>		<i>Nitrate of soda-potash</i>	<i>Prohibited.</i>
<i>X</i>		<i>Nitric acid</i>	<i>Prohibited.</i>
<i>X</i>		<i>NTA</i>	<i>Prohibited.</i>
		Oils, vegetable	See 'Vegetable oils'.
<i>X</i>		<i>Oil, petroleum based</i>	<i>Prohibited.</i>
<i>X</i>		<i>Organo-chlorines</i>	<i>Prohibited.</i>

<i>X</i>		<i>Organo-phosphates</i>	<i>Prohibited.</i>
		Oyster shell flour	Ground shells from oysters. See 'Limestone'.
		Ozone	See 'Bleach'.
A	F	Paper (allowed)	Plain paper and paper printed with vegetable based inks is allowed as a mulch or compost ingredient. May cause build-up of aluminum. Use with caution.
<i>X</i>		<i>Paper (prohibited)</i>	<i>Coloured or glossy paper</i>
<i>X</i>		<i>Paradichloro-benzene</i>	<i>Prohibited.</i>
A	F	Peat moss	Shall not contain synthetic wetting agents. Alternative locally sourced substances shall be used where available.
<i>X</i>		<i>Pelargonic acid</i>	<i>Prohibited.</i>
A	F, P	Pelletising materials (allowed)	Clay, gypsum or other non-synthetic coatings are allowed.
<i>X</i>		<i>Pelletising materials (prohibited)</i>	<i>Plastic polymers and other synthetic substances are prohibited.</i>
<i>X</i>		<i>Pentachlorophenol</i>	<i>Prohibited.</i>
A	C, P	Peracetic (peroxyacetic) acid	For use in disinfecting equipment, seed and asexually propagated planting material.
		Perlite	See 'Mined minerals, unprocessed'.
		Permanganate of potash	See 'Potassium permanganate (allowed)' and Potassium permanganate (prohibited)'.
<i>X</i>		<i>Pesticides, synthetic</i>	<i>Prohibited unless specifically allowed.</i>
<i>X</i>		<i>Petroleum distillates</i>	<i>Prohibited.</i>
<i>X</i>		<i>Petroleum solvents (aromatic)</i>	<i>Prohibited.</i>
A	F, P	pH buffers (allowed)	Natural sources of citric acid or vinegar may be used to adjust nutrient and pesticide solutions
<i>X</i>		<i>pH buffers (prohibited)</i>	<i>Lye and sulphuric acid are prohibited for use as pH buffers.</i>
A	P	Pheromones	For use in pheromone traps or dispensers. Pheromones shall be non-synthetic and shall not be combined with prohibited materials.
A	F	Phosphate rock	Shall not be fortified or processed with synthetic chemicals. Cadmium shall not exceed 90mg/kg P ₂ O ₅
A	C	Phosphoric acid (allowed)	As an equipment cleaner, only in accordance with the manufacturer's written instruction, provided no direct contact with organically managed land occurs.
<i>X</i>		<i>Phosphoric acid (prohibited)</i>	<i>Prohibited as a nutrient source.</i>
		Pine oil and resin	See 'Plant extracts'.
<i>X</i>		<i>Piperonyl butoxide</i>	<i>Prohibited as a synergist in botanical products. Although this material is</i>

			<i>derived from a plant source originally, it undergoes a substantial molecular change during its extraction and processing. Check the labels on botanicals to make sure this is not in the product.</i>
A	F	Plant (vegetative) by-products	Those derived from natural substances without the addition of chemically synthesized substances or chemical treatment. Organic sources shall be used unless commercially unavailable.
A	P	Plant extracts, oils and preparations	Allowed for pest and disease control as products are approved for that use in Canada
		Plant hormones	See 'Growth regulators for plants (allowed) & (prohibited)'.
A	P	Plant protectants, (allowed)	Substances that protect plants from harsh environmental conditions such as frost and sunburn, from infection, from the buildup of dirt on leaf surfaces, or from injury by a pest. Natural substances are allowed including diatomaceous earth, kaolin clay, pine oil, pine resin and yucca. Interior latex paint and white wash are allowed for use on trees to protect against sunburn and southwest disease.
<i>X</i>		<i>Plant protectants (prohibited)</i>	<i>All synthetic plant protectants are prohibited unless specifically allowed.</i>
A	F	Plants	Includes plant preparations of aquatic or terrestrial plants or parts of plants such as cover crops, green manure, crop wastes, hay, leaves and straw. Parts of plants used as soil amendments and foliar feeds are permitted. Use organic sources unless commercially unavailable. Plant wastes that potentially contain pesticide contaminants are prohibited. Sawdust, wood chips and shavings: permitted if they are from natural sources or derived from natural substances and if they are from wood, trees or logs that have not been treated with paint or substances prohibited by this standard.
A	P	Plastic sheeting	Allowed as seasonal or temporary soil cover. Shall not be incorporated into the soil or left to decompose: shall be removed at the end of the growing season. Use of polyvinyl chloride is prohibited for this application. Prohibited as a mulch in planted areas.
A	B	Polyethylene (Poly)	Allowed for irrigation systems.
A	B	Polyvinyl chloride (PVC) (allowed)	Allowed for irrigation systems where no alternatives exist.
<i>X</i>		<i>Polyvinyl chloride (PVC) (prohibited)</i>	<i>Prohibited as mulch or row cover.</i>
A	F	Pomaces	Shall be from organically grown fruits or vegetables, documented free of contaminants, or shall be aerobically composted before use.
		Potassium bicarbonate	See 'Baking soda'.
A	F	Potassium chloride (muriate of potash and rock potash)	Mined potassium salts (e.g. sylvinitite, kainite). Shall not cause buildup of salts in soil over repeated applications.
A	C	Potassium hydroxide	May be used to clean structures and equipment.
<i>X</i>		<i>Potassium nitrate</i>	<i>Prohibited.</i>
A	C	Potassium	Not to exceed 1% solution. May be used to clean irrigation systems,

		permanganate (allowed)	structures and equipment.
X		<i>Potassium permanganate (prohibited)</i>	<i>Prohibited as a nutrient source.</i>
A	F	Potassium rock powders	Includes basalt, biotite, mica, feldspars, granite and greensand. See 'Mined minerals, unprocessed'.
		Potassium sulphate, non-synthetic	Only from langbeinite or other natural sources. See 'Mined minerals, unprocessed'.
X		<i>Potassium sulphate, synthetic</i>	<i>Includes potassium sulphate produced by acidulation or chemical reaction.</i>
		Potassium sulfate magnesia (Langbeinite)	See 'Mined minerals'.
A	F	Potting soil	Shall not contain synthetic wetting agents or synthetic fertilizers.
		Predator scents	See 'Repellants'.
X		<i>Pressure treated lumber</i>	<i>Alkaline copper quatarnary (ACQ), Copper azole (CA), Copper chromium arsenate (CCA), creosote and pentachlorophenol treated lumbers are prohibited.</i>
X		<i>Pruning paints</i>	<i>Prohibited.</i>
A	F	Pumice	Allowed
X		<i>Pyrethroids</i>	<i>Prohibited.</i>
A	P	Pyrethrin	Pyrethrin is the active ingredient in products licensed for use as insecticides. Most commercial products contain prohibited Piperonyl butoxide.
A	P	Pyrethrum	Allowed.
		Quicklime	See 'Lime (allowed)' & (prohibited)'.
		Radiation	See 'ionizing radiation (allowed) & (prohibited)'.
A	P	Repellants	Acceptable if derived from a natural source such as sterilized blood meal, rotten eggs, hair or predator scents provided synthetic additives are not used.
A	B	Rock, natural	Allowed.
		Rock dusts (stone meal) unprocessed	See 'Mined minerals'.
A	F	Rock Phosphate	Shall not be fortified or processed with synthetic chemicals. Cadmium shall not exceed 90mg/kg P ₂ O ₂
A	F	Rock potash	Mined potassium salts (e.g. sylvinitite, kainite). Shall not cause buildup of salts in soil over repeated applications.
A	P	Rodent traps	Mechanical traps are acceptable but not with synthetic baits.
X		<i>Rodenticides, anti-coagulant</i>	<i>Prohibited</i>
		Rubbing alcohol (isopropyl)	See 'Alcohol'.
X		<i>Salt, table</i>	<i>Sodium chloride. Prohibited.</i>
A	F	Sand	Shall not contain prohibited substances
A	P	Saponins	Saponins derived from plants are allowed as wetting agents.

		Sawdust & wood chips	See 'Mulches' and 'Compost feedstocks'.
A	F	Seed meals	Shall be from non genetically modified sources; includes canola, corn, cotton, flax, mustard, soy, sunflower, etc.
A	P	Seed treatments	Non-synthetic and allowed substances, such as microbial products, kelp, yucca, gypsum and various clays are allowed.
		Seaweed and seaweed products	See 'Aquatic plant products'.
A	P	Semiochemicals	Shall be non-synthetic and shall not be combined with prohibited materials.
<i>X</i>		<i>Sewage sludge</i>	<i>Prohibited.</i>
A	F	Shells from aquatic animals	Allowed.
		Slaked lime	See 'Calcium hydroxide (allowed) & (prohibited)'.
A	C, P	Soap-based algaecides (demossers)	May be used to clean irrigation systems, structures and equipment. Shall not contain prohibited or restricted substances.
A	C, P	Soaps	Soaps consisting of fatty acids derived from animal or vegetable oils are allowed.
		Soaps, ammonium	See 'Ammonium soaps'.
		Sodium bicarbonate	See 'Baking soda'.
A	C	Sodium borate	May be used to clean irrigation systems, structures and equipment.
A	C	Sodium carbonate (soda ash)	May be used to clean irrigation systems, structures and equipment.
<i>X</i>		<i>Sodium chlorate & sodium chloride</i>	<i>Prohibited.</i>
<i>X</i>		<i>Sodium fluoaluminate mined and/or reacted</i>	<i>Prohibited.</i>
		Sodium hydroxide	See 'Lye'.
		Sodium hypochlorite	See 'Bleach'.
		Sodium lignosulphate	Construction: See 'Lignin sulphonates'. Nutrient: See 'Chelates (allowed)'.
<i>X</i>		<i>Sodium nitrate (Chilean nitrate)</i>	<i>Prohibited.</i>
		Sodium octaborate	Construction: See 'Lignin sulphonates'. Nutrient: See 'Chelates (allowed)'.
<i>X</i>		<i>Sodium sulphite</i>	<i>Prohibited.</i>
		Sodium tetraborate	Construction: See 'Lignin sulphonates'. Nutrient: See 'Chelates (allowed)'.
A	F	Soil	Shall not contain any prohibited substances

<i>X</i>		<i>Soil fumigants, synthetic</i>	<i>Prohibited.</i>
A	F	Soybean meal	Use organic soybean sources unless not commercially available. Shall not be from genetically modified soybeans.
A	F	Sphagnum moss	Shall not contain synthetic wetting agents.
		Spinosad	See 'Biological organisms'.
A	C, P	Steam	Allowed for vegetation control and as a cleaner.
A	P	Sterile insect	Allowed for insect control
A	P	Sticky traps and barriers	Shall not contain prohibited pesticides or other prohibited substances.
A	F	Stillage and stillage extract	Ammonium stillage is prohibited.
		Straw	See 'Plants'.
<i>X</i>		<i>Streptomycin, Streptomycin sulphate</i>	<i>Prohibited.</i>
A	F	Sugar, organic	Organic sugar is allowed.
		Sulphate of potash magnesia	From langbeinite. See "Mined minerals"
A	F	Sulphates of zinc or iron	May be used only to correct for deficiencies determined by soil or plant tissue testing. Sulphates produced using sulfuric acid are prohibited. See iron products.
A	P	Sulphur dioxide	Allowed for use in sulphur smoke bombs for control of underground rodents. Shall be used in conjunction with other methods, and only when a full pest control program is maintained but temporarily overwhelmed
A	F, P	Sulphur, elemental	Nutrient: Sulphur may be used as a soil amendment where more buffered sources of sulphur are not appropriate, and for foliar application. Natural substance or those derived from natural substances without the addition of chemically synthesized substances or chemical treatment. Pesticide: Allowed.
A	P	Sulphur, smoke bombs	See 'Sulphur dioxide'.
<i>X</i>		<i>Sulphuric acid</i>	<i>Prohibited.</i>
A	P	Summer oils	Allowed as suffocating or stylet oils on foliage
		Sunflower seed meal	See 'Seed Meals'.
<i>X</i>		<i>Super phosphate</i>	<i>Prohibited.</i>
		Surfactants	See 'Soaps'.
		Sylvinite	See 'Muriate of potash'
<i>X</i>		<i>Terramycin</i>	<i>Oxytetracycline calcium complex. Prohibited.</i>
		Tartaric acid	See 'Chelates (allowed)'.
<i>X</i>		<i>Toluene</i>	<i>Prohibited.</i>
		Topsoil	See 'Soil'.
A	F	Trace elements	Includes micronutrients from natural sources that are unchelated or chelated

		(micronutrients)	by materials listed as allowed. To be used when soil and plant deficiencies are documented via soil and / or plant testing. Use as a defoliant herbicide or desiccant is prohibited.
<i>X</i>		<i>Transpiration blockers, synthetic</i>	<i>Prohibited.</i>
A	F	Transplanting & Potting media	Shall be composed entirely of allowed substances
A	P	Traps	May not be combined with otherwise prohibited synthetic pesticides.
A	P	Tree seals	Plant or milk-based paints may be used. Latex paint and whitewash may be used if there is no alternative. Synthetic grafting materials are permitted on planting stock provided that food products are harvested after such plants have been maintained in accordance with this standard for at least 12 months. Shall not be combined with fungicides or other synthetic chemicals.
		Tri-acid chelates	See 'Chelates (allowed)'.
<i>X</i>		<i>Urea</i>	<i>Prohibited.</i>
A	P	Vegetable oils	Allowed as spreader-stickers, surfactants and carriers. Shall not contain prohibited ingredients.
		Vermicasts	See 'Worm castings'.
A	F	Vermiculite	Allowed.
A	C, P	Vinegar, non - synthetic	Cleaner: May be used to clean irrigation systems, structures and equipment. Pesticide: Allowed as a herbicide, an adjuvant or a pH regulator.
A	P	Virus sprays	Codling moth Granulosis virus is acceptable. No genetically modified viruses are allowed.
A	F, P	Vitamins (allowed)	Nutrients: Non-synthetic sources of all vitamins and synthetic sources of vitamins B1, C, and E are allowed. Pesticide: Vitamin D-3 (Cholecalciferol) cannot be the sole means of rodent control. Precautions must be taken to prevent killing non-target animals
<i>X</i>		<i>Vitamins, synthetic</i>	<i>All synthetic vitamins not explicitly allowed are prohibited. Synthetic forms of vitamins B1, C and E are allowed.</i>
A	F	Water, reclaimed	May be used only on non-edible parts of food crops and crops not for human consumption. Use on edible plant parts and root crops is prohibited.
<i>X</i>		<i>Weed oils</i>	<i>Prohibited.</i>
A	P	Weed torches	Allowed for vegetation control.
A	F, P	Wetting agents	Natural wetting agents, including soaps, saponins and microbial wetting agents are allowed. See 'Soaps'.
		White wash	See 'Tree seals' and 'Plant protectants, natural'.
		Wood ash	See 'Ash (allowed) & (prohibited)'.
		Wood chips and shavings	See 'Mulches' and 'Compost feedstocks'.
A	B	Wood Preservatives (allowed)	Sodium octaborate and sodium tetraborate are allowed Copper hydroxide, copper oxides and copper oxychloride are allowed for use as wood preservatives. Shall be used in a manner that prevents excessive copper accumulation in the soil. Build up of copper in soil may prohibit future use. Use with caution.

<i>X</i>		<i>Wood preservatives (prohibited)</i>	<i>Alkaline Copper Quaternary (ACQ), Copper azole (CA), Copper chromium arsenate (CCA), copper sulphate, creosote, and pentachlorophenol are prohibited</i>
A	F	Worm castings	Allowed if made from organic manure. Compost made from non-organic manure by worms shall be demonstrated to be free of antibiotics. The Organic Land Care practitioner must be assured that the best practices known to eliminate human pathogens have been used.
<i>X</i>		<i>Xylene</i>	<i>Prohibited.</i>
		Yeast	See 'Microbial products'.
		Yucca products	Shall not contain prohibited ingredients. See 'Plant protectants'.
		Zeolite	See 'Mined minerals, unprocessed'.
<i>X</i>		<i>Zinc ammonium sulfate</i>	<i>Prohibited.</i>
<i>X</i>		<i>Zinc chloride</i>	<i>Prohibited.</i>
<i>X</i>		<i>Zinc nitrate</i>	<i>Prohibited.</i>
<i>X</i>		<i>Zinc pellets</i>	<i>Prohibited.</i>
A	F	Zinc products (allowed)	Zinc oxide and zinc sulphate may be used to correct a documented zinc deficiency. See 'Trace elements (micronutrients)'.
<i>X</i>		<i>Zinc products (prohibited)</i>	<i>Zinc ammonium sulphate, zinc chloride, zinc nitrate and zinc pellets are prohibited.</i>
		Zinc oxide	See "Zinc products (allowed)".
		Zinc sulphate	See "Zinc products (allowed)".