

List of Allowed, Prohibited, and Restricted Substances for Produce and Livestock

The following is a list of some commonly-used substances that are Allowed, Restricted, and Prohibited in the CNG Program. This list is NOT exhaustive, but is meant to give producers and consumers a better idea of our standards and address some common questions.

Because certain substances are allowed for particular uses, but not others, this list is organized by use: Fertility and Soil Amendments, Plant Pests and Diseases, Weed Control, Livestock External Parasiticides, Livestock Feed Additives, and Livestock Health.

ALLOWED

Fertility and Soil Amendments - Allowed Substances

Animal and plant products such as

- bone, blood, and feather meal
- alfalfa and soybean meal
- fish emulsion
- molasses
- neem
- yucca

Compost- [NOTE: for plant materials, but be heated to at least 131°F (55°C) for at least 3 days. For compost containing animal and plant materials, must be heated to 131°-170°F for at least 15 days and must be turned 5 times.]

Compost tea – [NOTE: same restrictions as raw manure – “It may only be (i) applied to land used for a crop not intended for human consumption;(ii) incorporated into the soil not less than 120 days prior to the harvest of a product whose edible portion has direct contact with the soil surface or soil particles; or (iii) incorporated into the soil not less than 90 days prior to the harvest of a product whose edible portion does not have direct contact with the soil surface or soil particles.]”

Cover crops

Rock minerals such as

- High-calcium aglime
- Dolomitic limestone
- Rock phosphates
- Gypsum
- Sulfate of potash-magnesia
- Mined potassium sulfate
- Greensand or glauconite
- Glacial gravel dust
- Lava sand
- Granite meal

Plant Pests and Diseases - Allowed Substances

Biological and microbial products such as

- Bacillus thuringiensis* (Able©, Bt©, Dipel©, Deliver©, Foray©)
- Bacillus subtilis* (Serenade©)
- Beauveria bassiana* (Mycotrol©)
- Coniothyrium minitans* (Contans©)
- Myrothecium verrucaria* (DiTera©)

Diatomaceous earth

Hydrogen Peroxide - for plant disease control or disinfecting equipment only

Minerals such as

- Elemental sulfur
- Bicarbonate, potassium or sodium
- Kaolin clay (Surround WP©)

Oils - narrow range petroleum, vegetable and fish oils are allowed for insect and pest control during the dormant and growing seasons

Pheromones and pheromone traps

Plant-derived substances such as

- Neem
- Pyrethrum
- Caraway oil
- Seed fennel
- Corn gluten
- Garlic
- Quassia
- Equisetum
- Ryania

Soaps - non-detergent only; for food crops only; as a pesticide, fungicide, or algacide. If used as herbicide, must be used only on non-food plants or around buildings, roadways, etc.
Cannot be used for disease control

Streptomycin Sulfate and Tetracycline- only for fire blight in apples and pears

Sticky Traps

Sulfur dioxide—underground rodent control only (smoke bombs)

Vitamin D3 (Cholecalciferol) – for rodent control

Weed Control - Allowed Substances

Mulch such as

- Biodegradable plastic
- Paper that is not glossy and does not have colored ink
- Plastic mulch, so long as it is removed
- Straw

Livestock External Parasiticides - Allowed Substances

Biologicals such as

- Spinosaad (Natular™)

Botanicals such as

- Pyrethrum (Equisect™)

Essential oils

- Citronella
- Grapeseed
- Jojoba
- Lemongrass
- Soybean oil

Livestock Feed Additives - Allowed Substances

NOTE: these “may not be used in amounts above those needed for adequate nutrition and health maintenance at its specific stage in life. May not be used to stimulate growth or production.”

Diatomaceous earth

Fish meal

Kelp and seaweed meal

Minerals such as

- Calcium
- Carbon
- Cobalt
- Copper
- Iron
- Magnesium
- Manganese
- Phosphate
- Potassium
- Sodium
- Sulfur
- Zinc

Probiotics –NOTE: some products can be fed routinely, while others can only be administered in case of illness

Salt

Synthetic

- Phosphorus
- Selenium

Yeast

Yucca

Livestock Health - Allowed Substances

Aspirin - to reduce inflammation

Colostrum/Whey Antibodies

Essential oils such as

- Eucalyptus
- Lemon
- Oregano
- Thymol

Glycerin—“must be produced through the hydrolysis of fats or oils.”

Iodine -topical

Mineral oil -topical

Oxytocin

Probiotics –NOTE: some products can be fed routinely, while others can only be administered in case of illness

Vaccines

PROHIBITED

Fertility and Soil Amendments - Prohibited Substances

Ash from manure burning

Chemically-processed minerals, including quick lime, sugar lime

Compost with sewage sludge, synthetic compost starter, glossy paper, paper with colored ink

Synthetic fertilizers

Plant Pests and Diseases - Prohibited Substances

Rotenone

Detergent-based soap products

Synthetic wetting agents

Nicotine sulfate and other tobacco products

Heavy metal-based pesticides

Most synthetic insecticides, fungicides, miticides

Weed Management - Prohibited Substances

Most synthetic herbicides

Heavy metal herbicides

Micronutrient-based herbicides

Soap-based herbicides

Paper mulch with glossy paper or paper with colored ink

Livestock External Parasiticides - Prohibited Substances

Parasiticides are prohibited

Livestock Feed Additives - Prohibited Substances

Feed grown or treated with synthetic fertilizers or pesticides

Genetically modified feed or probiotics

Slaughter bi-products, urea and manure re-feeding

Livestock Health - Prohibited Substances

Invermectin (for slaughter stock)
Antibiotics
Genetically modified probiotics
Most conventional veterinary medications

RESTRICTED

Fertility and Soil Amendments – Restricted Substances

High salt content fertilizers such as sodium nitrate, potassium sulfate, potassium chloride –must have a plan to limit salt accumulation
Sodium (Chilean) nitrate -must not account for more than 20% of crop's total N requirement
Synthetic micronutrients – use is permitted if there is a documented deficiency
Micronutrients— may only be used for fertility, and there must be a documented deficiency.
Micronutrients made from nitrates or chlorides are prohibited
Raw manure – must be applied 120 days before harvest

Plant Pests and Diseases - Restricted Substances

Copper –must be used in a manner that prevents accumulation in the soil
Boric acid—only if there is no direct contact with organic food or crops
Soaps - non-detergent only; for food crops only; as a pesticide, fungicide, or algacide. If used as herbicide, must be used only on non-food plants or around buildings, roadways, etc.
Cannot be used for disease control

Weed Management - Restricted Substances

Herbicidal soaps – must not come into contact with crops, only for controlling weeds around buildings and roadways.

Livestock Health - Restricted Substances

Invermectin (for dairy stock and breeder stock) –only for emergency treatment, milk products from a treated animal may not be marketed as CNG for 90 days. For breeder stock, must not be used during the third trimester. It is prohibited for use on slaughter stock.
Atrophine –only by lawful written order of veterinarian and with a meat withdrawal period of 56 days for slaughter stock, and milk discard of 12 days for dairy
Butorphanol - only by lawful written order of veterinarian and with a meat withdrawal period of 42 days for slaughter stock, and milk discard of 8 days for dairy
Poloxalene - only for emergency treatment of bloat.
Methionine –“for use only in organic poultry production until October 1, 2012, at the following maximum levels of synthetic methionine per ton of feed: laying chickens—4 pounds; broiler chickens—5 pounds; turkeys and all other poultry—6 pounds.”