



## Organic Foods: What You Need to Know

The Benefits and Basics of Organic Food and How to Keep It Affordable

[Español \(/es/articulos/alimentos-saludables/alimentos-organicos.htm\)](/es/articulos/alimentos-saludables/alimentos-organicos.htm)



Organic food has become very popular. But navigating the maze of organic food labels, benefits, and claims can be confusing. Is organic food really better for your mental and physical health? Do GMOs and pesticides cause cancer and other diseases? What do all the labels mean? This guide can help you make better choices about shopping organic, including what to focus on and how to make eating organic more affordable.

### What does "organic" mean?

The term “organic” refers to the way agricultural products are grown and processed. While the regulations vary from country to country, in the U.S., organic crops must be grown without the use of synthetic pesticides, bioengineered genes (GMOs), petroleum-based fertilizers, and sewage sludge-based fertilizers.

Organic livestock raised for meat, eggs, and dairy products must have access to the outdoors and be given organic feed. They may not be given antibiotics, growth hormones, or any animal by-products.

#### Organic vs. Non-Organic

Organic produce:

Conventionally-grown produce:

Organic vs. Non-Organic	
Grown with natural fertilizers (manure, compost).	Grown with synthetic or chemical fertilizers.
Weeds are controlled naturally (crop rotation, hand weeding, mulching, and tilling).	Weeds are controlled with chemical herbicides.
Pests are controlled using natural methods (birds, insects, traps) and naturally-derived pesticides.	Pests are controlled with synthetic pesticides
<b>Organic meat, dairy, eggs:</b>	<b>Conventionally-raised meat, dairy, eggs</b>
Livestock are given all organic, hormone- and GMO-free feed.	Livestock are given growth hormones for faster growth, as well as non-organic, GMO feed.
Disease is prevented with natural methods such as clean housing, rotational grazing, and healthy diet.	Antibiotics and medications are used to prevent livestock disease.
Livestock must have access to the outdoors.	Livestock may or may not have access to the outdoors.

## The benefits of organic food

How your food is grown or raised can have a major impact on your mental and emotional health as well as the environment. Organic foods often have more beneficial nutrients, such as antioxidants, than their conventionally-grown counterparts and people with allergies to foods, chemicals, or preservatives often find their symptoms lessen or go away when they eat only organic foods.

**Organic produce contains fewer pesticides.** Chemicals such as fungicides, herbicides, and insecticides are widely used in conventional agriculture and residues remain on (and in) the food we eat.

**Organic food is often fresher** because it doesn't contain preservatives that make it last longer. Organic produce is often (but not always, so watch where it is from) produced on smaller farms near where it is sold.

**Organic farming is better for the environment.** Organic farming practices reduce pollution, conserve water, reduce soil erosion, increase soil fertility, and use less energy. Farming without pesticides is also better for nearby birds and animals as well as people who live close to farms.

**Organically raised animals are NOT given antibiotics, growth hormones, or fed animal byproducts.** Feeding livestock animal byproducts increases the risk of mad cow disease (BSE) and the use of antibiotics can create antibiotic-resistant strains of bacteria. Organically-raised animals are given more space to move around and access to the outdoors, which help to keep them healthy.

**Organic meat and milk are richer in certain nutrients.** Results of a 2016 European study show that levels of certain nutrients, including omega-3 fatty acids, were up to 50 percent higher in organic meat and milk than in conventionally raised versions.

**Organic food is GMO-free.** Genetically Modified Organisms (GMOs) or genetically engineered (GE) foods are plants whose DNA has been altered in ways that cannot occur in nature or in traditional crossbreeding, most commonly in order to be resistant to pesticides or produce an insecticide.

## Organic food vs. locally-grown food

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Unlike organic standards, there is no specific definition for "local food". It could be grown in your local community, your state, your region, or your country. During large portions of the year it is usually possible to find food grown close to home at places such as a farmer's market.

### The benefits of locally grown food

**Financial:** Money stays within the local economy. More money goes directly to the farmer, instead of to things like marketing and distribution.

**Transportation:** In the U.S., for example, the average distance a meal travels from the farm to the dinner plate is over 1,500 miles. Produce must be picked while still unripe and then gassed to "ripen" it after transport. Or the food is highly processed in factories using preservatives, irradiation, and other means to keep it stable for transport.

**Freshness:** Local food is harvested when ripe and thus fresher and full of flavor.

Small local farmers often use organic methods but sometimes cannot afford to become certified organic. Visit a farmer's market and talk with the farmers to find out what methods they use.

## Understanding GMOs

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The ongoing debate about the effects of GMOs on health and the environment is a controversial one. In most cases, GMOs are engineered to make food crops resistant to herbicides and/or to produce an insecticide. For example, much of the sweet corn consumed in the U.S. is genetically engineered to be resistant to the herbicide Roundup and to produce its own insecticide, Bt Toxin.

GMOs are also commonly found in U.S. crops such as soybeans, alfalfa, squash, zucchini, papaya, and canola, and are present in many breakfast cereals and much of the processed food that we eat. If the ingredients on a package include corn syrup or soy lecithin, chances are it contains GMOs.

### GMOs and pesticides

The use of toxic herbicides like Roundup (glyphosate) has increased 15 times since GMOs were introduced. While the World Health Organization announced that glyphosate is "probably carcinogenic to humans," there is still some controversy over the level of health risks posed by the use of pesticides.

#### Are GMOs safe?

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While the U.S. Food and Drug Administration (FDA) and the biotech companies that engineer GMOs insist they are safe, many food safety advocates point out that no long term studies have ever been conducted to confirm the safety of GMO use, while some animal studies have indicated that consuming GMOs may cause internal organ damage, slowed brain growth, and thickening of the digestive tract.

GMOs have been linked to increased food allergens and gastro-intestinal problems in humans. While many people think that altering the DNA of a plant or animal can increase the risk of cancer, the research has so far proven inconclusive.

## Does organic mean pesticide-free?

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As mentioned above, one of the primary benefits of eating organic is lower levels of pesticides. However, despite popular belief, organic farms do use pesticides. The difference is that they only use naturally-derived pesticides, rather than the synthetic pesticides used on conventional commercial farms. Natural pesticides are believed to be less toxic, however, some have been found to have health risks. That said, your exposure to harmful pesticides will be lower when eating organic.

### What are the possible risks of pesticides?

Most of us have an accumulated build-up of pesticide exposure in our bodies due to numerous years of exposure. This chemical "body burden" as it is medically known could lead to health issues such as headaches, birth defects, and added strain on weakened immune systems.

Some studies have indicated that the use of pesticides even at low doses can **increase the risk of certain cancers**, such as leukemia, lymphoma, brain tumors, breast cancer and prostate cancer.

**Children and fetuses are most vulnerable** to pesticide exposure because their immune systems, bodies, and brains are still developing. Exposure at an early age may cause developmental delays, behavioral disorders, autism, immune system harm, and motor dysfunction.

**Pregnant women are more vulnerable** due to the added stress pesticides put on their already taxed organs. Plus, pesticides can be passed from mother to child in the womb, as well as through breast milk.

The widespread use of pesticides has also led to the emergence of "**super weeds**" and "**super bugs**," which can only be killed with extremely toxic poisons like 2,4-Dichlorophenoxyacetic acid (a major ingredient in Agent Orange).

### Does washing and peeling produce get rid of pesticides?

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Rinsing reduces but does not eliminate pesticides. Peeling sometimes helps, but valuable nutrients often go down the drain with the skin. The best approach: eat a varied diet, wash and scrub all produce thoroughly, and buy organic when possible.

## The best bang for your buck when shopping organic

Organic food is often more expensive than conventionally-grown food. But if you set some priorities, it may be possible to purchase organic food and stay within your food budget.

### Know your produce pesticide levels

Some types of conventionally-grown produce are much higher in pesticides than others, and should be avoided. Others are low enough that buying non-organic is relatively safe. The Environmental Working Group, a nonprofit organization that analyzes the results of government pesticide testing in the U.S., offers a annually-updated list that can help guide your choices.

### Fruits and vegetables where the organic label matters most

According to the Environmental Working Group, a nonprofit organization that analyzes the results of government pesticide testing in the U.S., the following fruits and vegetables have the highest pesticide levels so are best to buy organic:

- Apples
- Sweet Bell Peppers
- Cucumbers
- Celery
- Potatoes
- Grapes
- Cherry Tomatoes
- Kale/Collard Greens
- Summer Squash
- Nectarines (imported)
- Peaches
- Spinach
- Strawberries
- Hot Peppers

### Fruits and vegetables you don't need to buy organic

Known as the “Clean 15”, these conventionally-grown fruits and vegetables are generally low in pesticides.

- Asparagus
- Avocado
- Mushrooms
- Cabbage
- Sweet Corn
- Eggplant
- Kiwi
- Mango
- Onion
- Papaya
- Pineapple
- Sweet Peas (frozen)
- Sweet Potatoes
- Grapefruit
- Cantaloupe

### Buy organic meat, eggs, and dairy if you can afford to

While prominent organizations such as the American Heart Association maintain that eating saturated fat from any source increases the risk of heart disease, other nutrition experts maintain that eating organic grass-fed meat and organic dairy products doesn't carry the same risks. It's not the saturated fat that's the problem, they say, but the unnatural diet of an industrially-raised animal that includes corn, hormones, and medication.

### What's in American meat?

According to Animal Feed, conventionally raised animals in U.S. can be given:

- **Dairy cows** – antibiotics, pig and chicken byproducts, growth hormones, pesticides, sewage sludge
- **Beef cows** – antibiotics, pig and chicken byproducts, steroids, hormones, pesticides, sewage sludge
- **Pigs** - antibiotics, animal byproducts, pesticides, sewage sludge, arsenic-based drugs
- **Broiler chickens** - antibiotics, animal byproducts, pesticides, sewage sludge, arsenic-based drugs
- **Egg laying hens** - antibiotics, animal byproducts, pesticides, sewage sludge, arsenic-based drugs

## Other ways to keep the cost of organic food within your budget

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**Shop at farmers' markets.** Many cities, as well as small towns, host a weekly farmers' market, where local farmers sell their produce at an open-air street market, often at a discount to grocery stores.

**Join a food co-op.** A natural foods co-op, or cooperative grocery store typically offers lower prices to members, who pay an annual fee to belong

**Join a Community Supported Agriculture (CSA) farm,** in which individuals and families join up to purchase "shares" of produce in bulk, directly from a local farm.

Local *and* organic!

### Organic food buying tips

**Buy in season** – Fruits and vegetables are cheapest and freshest when they are in season. Find out when produce is delivered to your market so you're buying the freshest food possible.

**Shop around** – Compare the price of organic items at the grocery store, the farmers' market and other venues (even the freezer aisle).

**Remember that organic doesn't always equal healthy** –Making junk food sound healthy is a common marketing ploy in the food industry but organic baked goods, desserts, and snacks are usually still very high in sugar, salt, fat, or calories. It pays to read food labels carefully.

### Why is organic food often more expensive?

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Organic food is more labor intensive since the farmers do not use pesticides, chemical fertilizers, or drugs. Organic certification is expensive and organic feed for animals can cost twice as much. Organic farms tend to be smaller than conventional farms, which means fixed costs and overhead must be distributed across smaller produce volumes without government subsidies.



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