

What is Organic Farming?

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The USDA defines organic agriculture as "a production system that is managed to respond to site-specific conditions by integrating cultural, biological, and mechanical practices that foster cycling of resources, promote ecological balance, and conserve biodiversity."

More specifically, organic farming entails:

Use of cover crops, green manures, animal manures and crop rotations to fertilize the soil, maximize biological activity and maintain long-term soil health.

Use of biological control, crop rotations and other techniques to manage weeds, insects and diseases.

An emphasis on biodiversity of the agricultural system and the surrounding environment.

Using rotational grazing and mixed forage pastures for livestock operations and alternative health care for animal wellbeing.

Reduction of external and off-farm inputs and elimination of synthetic pesticides and fertilizers and other materials, such as hormones and antibiotics.

A focus on renewable resources, soil and water conservation, and management practices that restore, maintain and enhance ecological balance.

Many organic farmers, including Wende Elliott and Joe Rude of Colo, Iowa, view organic production as a means to work with the environment and maintain the balance of their ecosystem. "Natural systems work hard if you incorporate biodiversity into your operation instead of fighting it," said Rude, who co-farms 125 acres of pastured poultry, corn, hay and alfalfa.

Using nature as a model for the agricultural system – recycling nutrients, encouraging natural predators to manage pests, increasing plant densities to block weeds – organic farmers don't merely substitute non-toxic materials for pesticides and fertilizers, but rather consider the farm

as an integrated entity, with all parts interconnected.

When livestock and poultry are incorporated into organic systems, the potential for diversification and integration is even greater: Livestock feed on grasses and mixed forages, both of which help improve soil structure. At the same time, livestock provide manure to fertilize soil, and can be used to "cull" any non-harvestable crops.

Elliott and Rude, like many organic farmers, want to raise food free of hormones, antibiotics and pesticides. For many years, organic producers and proponents have claimed that organic farming is gentler on the environment. Research now confirms this:

The Sustainable Agriculture Farming Systems (SAFS) project at the University of California-Davis, a 12-year research station experiment comparing conventional and organic systems, showed water infiltration rates to be 50 percent higher in the organic system. The project, supported by a grant from USDA's Sustainable Agriculture Research and Education (SARE) program, also showed that the organic system had one-third the amount of water movement into surface and groundwater as the conventional system. The organic system was more efficient at storing nitrogen and had positive effects on soil quality, including higher biological activity and a doubling of organic matter in 10 years.

An organic cropping system consumed three to four times less energy than a conventional system, while also producing six times more biomass per unit of energy consumed in a South Dakota State University comparative trial at the Northeast Research Station near Watertown.

A SARE-funded study evaluating pesticide and nutrient loads in subsurface drainage on organic and conventional farms in Illinois found less nitrate, chloride and atrazine in the water draining from the organic fields.

More recent research also shows that organic farming systems can be equally productive and economically competitive with conventional systems, and in some cases, more resilient. Consider that:

A study comparing long-term established organic and conventional tomato farms in California's Central Valley found comparable yields.

An article published in the Organic Farming Research Foundation Bulletin reviewing data from seven universities and two research station experiments verified that organic corn, soybean and wheat yielded, on average, 95 percent of conventional.

Many studies have shown that organic systems perform better than conventional ones under drought conditions.

What Makes a Successful Organic Farmer?

The old image of an organic farmer as a small "back-to-the-land" type is long gone. Some organic operations have been so successful that they have been gobbled up by large multinationals such as Kraft and General Mills, which have recognized the powerful market potential for organic goods. Other organic farmers have organized into successful cooperatives. The largest organic cooperative in the country, Organic Valley, has more than 500 organic farmer-members across 13 states and successfully markets organic dairy products, beef, pork and poultry.

For many farmers, a driving force to convert to organic production is economic: Organic crops can fetch a price premium of anywhere from 25 percent to 200 percent or more over conventionally grown products, according to USDA's Economic Research Service.

However, most organic farmers produce crops and livestock organically because they believe their methods are better for the environment. Many seek a safer food supply. "The main motivation for us going organic is out of a certain stewardship ethic toward the soil, the earth and

ultimately, for mankind," said Altfred Krusenbaum, a Wisconsin farmer who began the transition to organic corn, soybeans, wheat and alfalfa in 1990. Krusenbaum was profiled in the University of Wisconsin's College of Agriculture and Life Sciences Quarterly.

In fact, switching to organic farming requires a major philosophical shift. Said Joe Rude, an Iowa poultry and crop farmer, "It's about trying to get the ecological system harmonious and working with it, rather than overriding it." Farmers who turn to organic farming solely to capture market premiums often fail because it does not mean simply substituting one type of inputs for another, such as replacing a synthetic pest control with Bacillus thuringiensis or applying organic fertilizers in place of synthetic ones.

"In organic farming, a mind shift is essential," agreed Brad Brummond, North Dakota State University extension agent from Walsh County, who specializes in organic production. "You must go from treating problems to treating the causes of the problems and recognize that every decision you make will affect other aspects of your system."

When deciding if organic farming might be right for you, consider the list of characteristics shared by successful organic farmers:

A commitment to a safer food supply and protection of the environment

Patience and good observation skills

An understanding of ecological systems

Good marketing skills and motivation to spend time seeking out markets

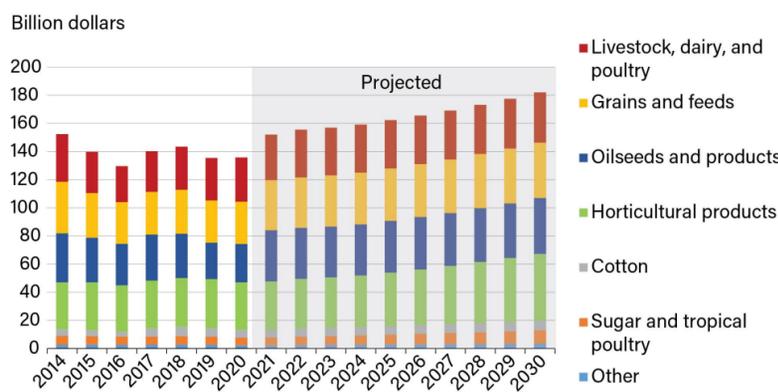
A willingness to share stories of successes and failures and to learn from others (information networks are often underdeveloped for organic farmers).

Flexibility and eagerness to experiment with new techniques and practices.

U.S. ag exports projected to strengthen

Historical and projected U.S. agricultural exports by commodity group, 2014-30

USDA Economic Research Service
U.S. DEPARTMENT OF AGRICULTURE



Note: Exports are presented by fiscal years, October through September. Source: USDA, Economic Research Service.

U.S. agricultural exports in fiscal year 2021 are expected to increase to \$152 billion, up 12 percent from the previous year, and nearing the record set in 2014. Through 2030, exports are expected to grow 1.9 percent annually as the world's economies rebound from the COVID-19 pandemic, resuming

an expansion near the pre-pandemic growth path. Key to these trade projections are the outlook for the rebound and the longer-term resumption of robust economic growth in Asia, Africa,

the Middle East, and Latin America, important developing country markets where food import demand is most sensitive to rising incomes. Rising 2021 export values are also supported by higher

near-term prices for a range of commodities, including soybeans, cotton, wheat, and meat products. The near-term price trend is anticipated to be followed by generally stable prices through 2030. High-value products, a category that includes horticultural and animal products, as well as processed and semi-processed grains and oilseeds, accounted for 69 percent of U.S. agricultural exports in 2020. That share is expected to drop to 64 percent in 2021 as export values of bulk commodities such as soybeans, cotton, and wheat surge. Exports of high-value agricultural products are expected to resume outpacing the growth in bulk commodities in fiscal years 2022 through 2030, while foreign competition is projected to continue to limit growth in U.S. bulk commodity exports over that same time period. This chart is taken from USDA Agricultural Projections to 2030, released in February 2021.

5 Farm Safety Tips for Spring

After a long, cold and dreary winter, spring has finally arrived. The days are longer, calving season begins and planting season is approaching. Spring is a busy season for many FFA members, and there is no better time to keep safety in mind. Between chapter banquets and evening chores, follow these five farm safety tips to ensure a successful transition to summer break.

1. Avoid driving tractors and ATVs on the road at dawn and dusk.

This is the peak time for drivers commuting to and from work. If you must be on the road, make sure your equipment has plenty of reflective material, use your headlights, wear your seatbelt and carry your license and insurance cards. When possible,

have a friend or family member act as an escort vehicle.

2. Watch where you step.

It's not just the cow pies in the field you should watch out for. When working in potential risky spaces like manure pits, grain bins or logging areas, pay extra attention to your surroundings to avoid dangerous gases, loose footing or falling hazards.

3. Follow the label.

Whether you are working with pesticides, vaccinations or fertilizers, always follow the label exactly. Be sure to wear the proper personal protective equipment, handle and store materials appropriately, and keep all supplies away from young children.

4. Create a Farm Aid Kit.

While many farmers keep duct tape and baling twine

handy during the spring, adding a few other materials can create an essential Farm Aid Kit. Grab a travel bag and add a fire extinguisher, bottles of water and basic first aid materials. Keep an information card on hand that includes emergency contact numbers as well as written directions on how to get to the farm, field and other work areas.

5. Take care of yourself.

Long hours in the field can lead many farmers to neglect basic self-care. Make eating regular meals and getting an adequate amount of sleep priorities this spring to prevent careless accidents. As the temperatures rise, remember to stay hydrated both in and out of the field.

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