

Going Organic: Use of Organic Ingredients in Craft Beverages

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Ask any young woman 18–to–34 if she buys organic products, and she'll list off eve thing from baby lotion to shampoo, juice boxes to pastured chicken, bed linen to yoga A ording to data from the Organic Trade Association, many people in this demographic are ocuse on living organically—particularly parents, who intend to create more healther interval.

But when these parents have a date night, are they drinking rganic 'ult' everages? In Jeremy Kempter's experience, people sometimes forget the *i* portal 'e of r unity in what he calls "sin" products.

"Distillation and fermentation intensify the potenty of higher gredients. So it stands to reason the concentration of chemicals in non-orgatic gredients will increase, too," Kempter told *Beverage Master Magazine*. "We want a clear of the organic because we're striving for superior quality and smoothness."

Kempter is the 'ound, a. ______ ief distiller of Old Town Distilling Company (OTD) in Fort Collins, Colorao (old owndistilling.com). He and business partner Patrick Saul call themselves "crafters of disting ______ oations," all of which are certified organic and distributed in Colorado, New York and New Jersey. OTD's Old Standard whiskey, bourbon, and a new spirit, Native Nectar maize vodka, contain organic sweet corn and spicy winter rye from Motherlove Legacy Farm in the Colorado foothills. Motherlove is owned by agronomist R.J. Ottaviano, who reached out to OTD with an offer to try his grains.

Previously, Kempter imported organic rye malt from Germany, "which was very expensive," he said. "We experimented with Motherlove grains in a few batches, and ultimately switched our recipes to use them. We've never looked back."

What the Organic Designation Means

It's important to know what's behind the certified organic label. According to the standards established by the United States Department of Agriculture (USDA), an organic label on a food, beverage or other agricultural product indicates production through approved methods. A USDA-accredited certifying agent verifies that growers and crafters follow specific requirements before labeling products USDA Organic.

Some guidelines organic operations must adhere to include set g biodiversity, protecting natural resources and using only approved substances. F agric 1tt l commodity producers pursing certification for the first time, the process' egins ith sc quality—a transition that can take up to three years. During this time, crop farm vs must wall USDA National Organic Program mandates monitored by a third- vty agen P ducer can't label anything organic until they're fully certified.

By the weight ers, the efforts seem to pay off. The USDA's 2017 statistics indicate there are nearly 25,000 certified organic consumable operations in the US—a 13 percent increase between 2015 and 2016, and the highest rate of growth since 2008. Consumers are responding, too. A 2017 Organic Trade Association report reveals that in the US, organic sales totaled approximately 47 billion—an increase of nearly 4 billion from the previous year.

Not Trend, But Tradition

When growers and producers choose organic methods, it's often because the practice is rooted in a more holistic philosophy that fosters a business mission. Since the 1850s, members of the Koan family in Flushing, Michigan, have owned a three-point operation: a farm, Almar Orchards and an organic cider facility. Current patriarch Jim Koan, now in his 70s, manages the farm and orchards. His son, Zach, controls estate cider production.

JK's Farmhouse Ciders (jksfarmhouseciders.com) is the Koan's organic hard cider line. Small batch varieties are sold by keg, bottle and can in more than 30 U.S. states, and through international outlets in Canada, Scotland and Japan. The company's original estate cider, JK's Scrumpy, is considered entirely organic, produced with apples from the family's 150-year-old orchards and fermented with wild yeast.

The Koan's business partner and sales manager, Bruce Wright, believes the family's primary purpose is ethical sustainability. "Making a wholesome beverage from apples we grow and know are safe is important. We could produce a lot of cider cheap with imported concentrate, but that's not us," he said.

There's more risk in growing organically, and coaxing productive yields is difficult. "It would be much easier and less expensive to spray chemicals," said Wright. "But Jim is a steward of more than 500 acres of organic orchards and farmland. He wants to leave his land in better shape than when he started "He also wants to be secure in the knowledge that fruit he sells to his neighbors and makes in finite cited and healthy."

The Koans h_{1} or e^{-a} a ariety of effective traditional best practices. Instead of insecticides, a flock of guinea for 1 patro, the property. Heritage breed pigs scour the orchards and fields, providing pest con, h_{1} and h_{2} are making a meal from the refuse.

"I don't think you could rer ad ee hat we do," Wright said. "It's our land that affords us flavorful fruit to make unique be a set of the set o

Emerg 'ng 'p, 'ons for Brewers

For craft brewers, sourcing organic ingret into is often more challenging if brewers aren't also growers. The USDA's 2015 estimate for conventional telep production indicates only 25 percent is used for malting. Organic barley production is an extensive process, as it's highly prone to disease and crop proximity challenges. Insection organic farming appeals to a select few, and costs reflect the effort.

Before 2010, organic brewers weren't required by the USDA⁺ use regard hops. Then regulations changed, specifying beer could only be certified regard of the hops were too. This increased demand, but at press time, there are less than a dozen organ in growers in the US that can offer both small- and large-scale brewers a consistent supp' with a reasonable price point.

One producer, 100-year-old Roy Farms (RF) in Moxee, Washington, strives to be a change agent. A diversified, family-owned farm in the heart of the fertile Yakima Valley—home to nearly 75 percent of the US hop production—Roy Farms (royfarms.com) grows 5 million pounds of hops on 3,200 acres.

In 2006, the organization started the organic hop certification process with 25 acres. "There was a lot of trial and error," said Andy Roy, RF's accounts and contracts manager for hop sales. "We were making sure crops had the right nutrients to grow and ensuring yields were where we

needed them, given the limited amount of ferticides (organic fertilizers with organic pesticides) and pesticides we were allowed to use."

RF experimented with varieties throughout the years to find the right ones that "agronomically lend themselves to organic growing," Roy said. "We currently have 130 acres in active production—yielding 200,000 pounds—and a significant amount of land ready for trellis/planting." Varieties in its direct farm—to—brewer channel include, but aren't limited to, Organic Cascade, Organic Centennial, Organic Chinook and Organic El Dorado. "We're currently one of the largest organic hop growers in the country," said Roy.

As Roy evaluates the pros and cons of organic production, sustainability is the clear winner. "Like many hop growers in the region, we're multi-generational. It's up to all of us growers to ensure the land we've harvested these past 100+ years will be harvestable for future generations," Roy see, "That's one of the primary reasons 100 percent of our hops are Salmon-Safe certified, we're have applicants to protect potential run-off." A con is "having a drastically-redued 'we chest' of applicants to combat viruses and pests."

In 2013, RF's hops w re the f st in the nation to be certified GLOBALG.A.P. Roy explained this critical designatio. "O" JBALG.A.P. is a Global Food Safety Initiative compliant on-farm standard that covers certification of the entire crop process from planting and harvesting to transportation and storage," he is "GLOBALG.A.P. seeks to achieve a universal standard for product safety, environmentation" act and the health, safety and welfare of works worldwide. The certification reduces food safety in sector provides traceability, conserves natural resources and increases worker health and safety. In the interview of the products in the favority beers."

A connection to quality sourcing is what the maje ity of growers and crafters believe differentiates their products as more enthasiasts make a conscious choice.

Wright with JK's Farmhouse Ciders pointed or , "It see ns a greater number of people are more cognizant of what they consume. For example, 'e have 10t of people reviewing our ciders, with many making a pilgrimage to the farm," he said to nony, organic is important; to some, it's the lack of sulfites. But to all, it's the flavor."

Local Focus, Cost-Colorus

In an urban garden behind Mystery Brewing Company in Hills¹, ..., North Carolina, there's a small assortment of hops, vegetables and herbs. These homegrown elements provide distinctive characteristics not only for Mystery's rotating palette of beers but also for the diversity of its public house restaurant menu.

Eric Lars Myers, Mystery's founder, CEO and head brewer (mysterybrewing.com), doesn't produce all the ingredients for his tap list. He does embrace a perspective many growers and makers do: from ground to glass. "We enjoy producing our own ingredients. It significantly reduces cost and puts us in ultimate control of flavor, usage and how those ingredients are grown. It tells a great story about how involved we are in our beer," Myers said. He creates a

different saison, sessionable ale, hoppy beer and dark beer each season, which Mystery distributes throughout North Carolina in kegs and cans.

Myers believes locality matters. "I proudly display on my packaging that I use local vendors. It's really a part of our ethos. We're asking people to buy local and to prioritize a local business, and so we do our best to embody that," Myers said. "However, local for local's sake doesn't work. It has to be the right ingredient for the beer, it has to taste good, and it has to not be an enormous amount more expensive than the normal cost of goods."

Even with such a strong ethos, logic still governs his business practices. From the importance of supply consistency to the power of consumer choice, Myers' view of the organic marketplace makes him hesitant to convert his processes. "Organic ofter mean in the expensive," and that's not something I can sign on to. I need people to be able with ford in beer. For organic grain alone, we're seeing a 10-to-25 percent upcharge," I told Be the Master Magazine. "If organic ingredients were always the same price as real variable variable of the mean in the processes of the mean in the expensive of the processes of the

Roy understands this conflict. "We ve see, a flattening of organic brewers entering/staying in the market. This is due to " his en ost " procure organic raw materials and the never-ending battle for tap/shelf space," " "But a significant amount of current organic brewers are finding consister " tainable growth in their markets. It's our job to ensure they have organic hops readily av (lable) and consistent in quality for their demand."

Even though how is successfully established a small batch organic spirits line, Kempter's wish is that all A erision farmers and craft beverages would be organic. "The challenges come from the fact we don chave quite as many choices. Our hope is, as organic agriculture grows and becomes increasingly profitable, the selection will match that of non-organic ingredients," Kempter said.

"The paperwork to apply and comply as certified organic can be fairly intensive," he continued. "However, if you're used to the cumbersome record keeping required by the TTB (Alcohol and Tobacco Trade Bureau), you're capable of adhering to the USDA."

