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Beer & Wine Making

History

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Aside from water, beer is thought to be the world's oldest beverage. Some anthropologists believe that beer How to Get Started consumption dates from the Neolithic era of the Stone Age (circa 9000 BCE), when prehistoric people stumbled Investment upon damp, fermented grains, which they ingested and enjoyed enough to figure out the brewing process. Materials Other beer-making supplies include Additional supplies for wine making Techniques Trends Time Beer and Wine Making for Fun vs. Profit Learning More Organizations Books Fun Facts

American Accent

considered the first drinking song, the "Hymn to Ninkasi," which doubled as a brewing recipe.

sixteenth century in England. Christopher Columbus introduced European beer to America, and soon observed the people who lived there making a maize-based brewed beverage that was similar to English beer. The history of wine is a bit foggier, but it is believed that the first intentionally made wine dates from around 6000 BCE, coincident with the

substance was perfect for storing and producing wine.



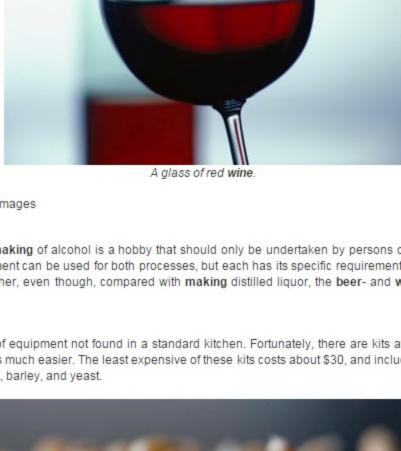
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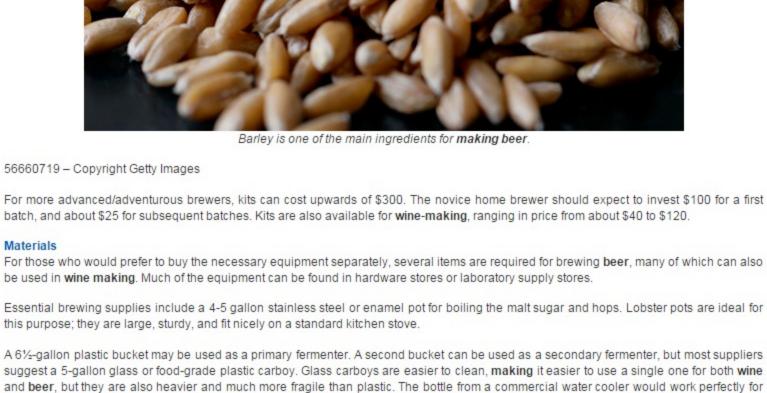
easy.

Investment

Materials

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Bottling supplies include refillable beer bottles, bottle caps, and capper. Commercial beer bottles may be used, provided they are not twistoff. They should be rinsed in hot water before use. A bottle brush and cleanser should also be used. Part of the original appeal of beer making was that the alcohol killed harmful bacteria that would otherwise grow in the water supply. Because of this happy arrangement, it is nearly impossible for anything harmful to grow in homebrewed beer. Nevertheless, if bacteria or natural yeasts are present in any

Other supplies include a long, narrow tube or jar to hold the wine while its gravity is checked. Hydrometers generally come in tubes, which may be used for this step of the process. A wine thief is a pipette used to remove the developing wine from the carboy. The wine may be

There are also two main types of wine: red and white. The difference in color is caused by the grape skins, which are used in the fermentation of red wine, but not white wine. Different varieties of grape are used for the different wines, and a wine's name usually comes

poured from the carboy into the other containers or bottles, but using a wine thief will make this process much easier and less messy.

equipment, the process will not be controlled, and the results will be unpredictable, and probably not very appetizing.

. Long-handled, non-wooden spoon that will fit in the opening of the carboy and reach the bottom

Other beer-making supplies include · Airlock (for the opening on the carboy)

 Racking tube and siphon hose · Hydrometer for testing gravity

. A long piece (at least 5 feet) of food-grade plastic tubing · Long-handled spoon Bottles and corks

Dairy thermometer

Hydrometer

Techniques There are two basic types of beer: lager and ale. Generally, ale is sweet, fruity, and full-bodied, while lager has a crisp, clean, often bitter taste. The difference between the two is determined by the type of yeast used, and the amount of time spent fermenting. There are also three types of grain ingredients: grain extract, partial mashes, and all-grain.

from the type of grape used.

White wine. By Evan Swigart from Chicago, USA (White Wine) [CC BY 2.0], via Wikimedia Commons Without several acres of prime cropland in a temperate climate, it is difficult to grow grapes specifically for wine making. Fortunately, many

vineyards sell concentrate from their grapes. Unpasteurized grape juice from the supermarket will also work, but it is relatively expensive and will not yield a specific variety of wine. Other kinds of fruits, such as plums and elderberries, can also be used. There are also several

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unique.

Beer flight at Twisted Manzanita Brewing Company, Santee, California. By Nehrams2020 (Own work) [CC BY-SA 3.0], via Wikimedia Commons Wine making is much simpler, but takes much longer to complete. The yeast has to sit in the juice for about two days before it begins the

fermentation process, then for another ten to fourteen days until the proper specific gravity is attained. Once fermentation is halted (by adding ascorbic acid or potassium sorbate), the wine needs to sit for another two weeks before being bottled. The filled bottles should be kept

Making beer or wine can be a rewarding and exciting hobby. Beer and wine making are both hobbies that are meant to be shared; serving

Unfortunately, since homebrews are not regulated or taxed by the government, selling them is illegal; this makes starting a homebrewing

upright for three days, and then on their side for at least a month if making white wine, and at least a year if making red wine.

American Homebrewers Association http://www.homebrewersassociation.org/ Books The American Wine Society Presents the Complete Handbook of Winemaking. Ann Arbor: G.W. Kent, Inc., 1993. Berry, C.J.J. First Steps in Winemaking. Ann Arbor: G.W. Kent, Inc., 1987.

• The term "honeymoon" is believed to come from an ancient Babylonian tradition. After a wedding, the bride's father would give the

Iverson, Jon. Home Winemaking Step by Step. Medford: Stonemark Publishing Co., 2002. Miller, Dave. Dave Miller's Homebrewing Guide. North Adams: Storey Publishing, 1995.

Nachel, Marty. Homebrewing for Dummies. Indianapolis: Wiley Publishing, Inc., 1997. Papazian, Charlie. Microbrewed Adventures. New York: HarperCollins Publishers, 2005.

Snyder, Stephen. The Brewmaster's Bible. New York: HarperCollins Publishers, 1997. Tibbetts, Stacy and Jim Parker. Basic Homebrewing. Mechanicsburg: Stackpole Books, 2006.

- William Shakespeare's father was a "conner" in Elizabethan England. A conner's job was to test the purity of ales by sitting in a puddle of the brew; impure or sugary beer would make the conner's leather pants sticky. · Louis Pasteur originally developed the pasteurization sterilizing process for use in beer production.
- properties, the beverage of choice morning, noon, and night.

By Alex K. Rich

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Database: Hobbies & Crafts Reference Center

Illustration of beer brewing process. 88021617 - Copyright Getty Images The earliest farmers' first crops were grains. For a grain to ferment, all that is required is moisture and yeast, both of which occur naturally and are likely to be in close proximity to grain crops. As people began to better understand the brewing process, it became more sophisticated.

By the third millennium BCE, beer had become an important part of human culture. The "Epic of Gilgamesh," one of the first known works of literature, describes beer as symbol of sophistication and intelligence. The master brewers in ancient Mesopotamia were mostly women, a fact that was reflected in the ancient Sumerians' belief in Ninkasi, the goddess of brewing. Archaeologists have discovered what could be

Early civilizations believed that the intoxicating effect of beer was the work of gods, and drunkenness was thought to be holy. The Babylonians, who succeeded the Sumerians, had as many as twenty different beer recipes. Ancient Egyptians improved on the brewing process, using bread dough and dates to make a better-tasting beer. The preservative power of bottling beer was discovered in the emergence of pottery. As people figured out how to mold and fire clay into pots and jars, they discovered that the porous surface of the

Wine most likely originated in the Middle East, and is mentioned as an important beverage in the Old Testament of the Bible. Romans brought wine into Western Europe, and eventually, wine was being produced on all inhabited continents. Almost all of the wine made in the world comes from a single species of grape, Vitis vinifera, from which more than 4,000 distinct varieties have been developed. Other species, including V. labrusca and V. rotundifolia, are occasionally used, but their sugar content tends to be too low to achieve the necessary alcohol content. Many factors affect the quality and characteristics of wines, including climate, soil type, and topography. Specific growing techniques used by growers or vineyards can also influence wine quality. Both beverages have evolved and developed over time, but the simple, physical process required for making both beer and wine has remained essentially the same since prehistoric people first observed it.

stk20341wne - Copyright Getty Images It goes without saying that the making of alcohol is a hobby that should only be undertaken by persons of legal drinking age. Many of the necessary materials and equipment can be used for both processes, but each has its specific requirements. For the beginner, it is probably better to stick with one or the other, even though, compared with making distilled liquor, the beer- and wine-making process is relatively A home brewery requires a lot of equipment not found in a standard kitchen. Fortunately, there are kits available online and in many craft stores and that make the process much easier. The least expensive of these kits costs about \$30, and includes all of the basic necessities for making beer, including the hops, barley, and yeast.

Wine-making supplies are similar to those used in brewing beer. An 8- gallon plastic bucket, with a lid, marked at the 6-gallon point, should be used for fermentation. Avoid using the same bucket for beer and wine, as the taste and fermentation will be affected. A 2-gallon carboy is also needed.

Additional supplies for wine making

· Airlock and bung (rubber stopper with a hole in it) for the carboy

Beer has only four basic ingredients (water, yeast, hops, and grain) which can be altered, substituted, or augmented for different types or flavors of beer. Wine, at its simplest, can be made with nothing more than fruit juice, water, and yeast.

Extracts are the easiest type to work with and have the smallest margin of error, so beginners should perfect this method before moving on to the more complicated, labor-intensive techniques. Extracts may be either powder or syrup, and need to be fully dissolved in boiling water before adding the other ingredients.

this, but those considering brewing seriously should probably invest in a glass carboy.

wine-based drinks, such as brandy and sangria, which can be made with finished wine.

Since the 1980s and 1990s, there has been a resurgence of microbreweries, particularly in the United States, to the point where microbrews are among the most famous beers in the country. This trend has resulted in more nuance and individuality in commercial beers, and grew directly out of the popularity of homebrewing during the 1970s. Today, so-called hybrid wines are becoming more popular among commercial and amateur winemakers. The process involves using more than one type of grape or grape juice to create a unique flavor not possible with just one kind of grape. Much of the fun of making both beer and wine is experimentation with ingredients and processes. Making a perfect facsimile of a Napa Valley pinot noir or a Red Hook lager is admirable, but the true satisfaction of homebrewing comes from concocting something that is Brewing and wine-making both involve a lot of waiting. Depending on the type of beer, the turnover time from grain to glass can be between four and twelve weeks. Lagers take about twice as long as ales.

business more difficult than simply printing up a homemade label and building a website. Most microbreweries are started by homebrewers looking to expand their hobby, but there are many matters, beyond legal concerns, that need to be considered when starting a brewery or a vineyard. As more and more hobbyists turn their craft into businesses, the market has become more competitive. The same hurdles involved in starting any business, including market research, real estate, and staffing, are augmented by the specifics of beer or wine making.

Higgins, Patrick; Maura Kate Kilgore; and Paul Hertlein. The Homebrewer's Recipe Guide. New York: Simon & Schuster, 1996.

up the first batch of homebrew to friends and family is a uniquely gratifying experience.

Fermenters International Trade Association http://fermentersinternational.org/about.html>

groom all the mead that he could drink. This month of drinking the fermented honey beverage came to be known as the "honey moon," because of the Babylonians' lunar calendar.

. During the fourteenth, fifteenth, and sixteenth centuries, Europe's lack of reliable, clean drinking water made wine, with its antiseptic

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Fun Facts

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