

# Heirloom plant

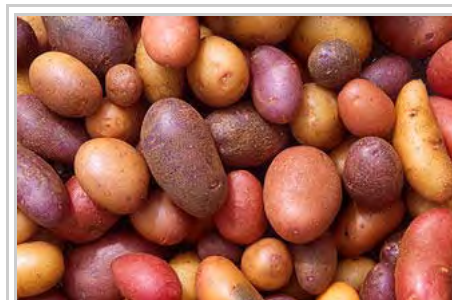
From Wikipedia, the free encyclopedia

An **heirloom plant**, **heirloom variety**, **heritage fruit** (Australia and New Zealand), or (especially in Ireland and the UK) **heirloom vegetable** is an old cultivar that is maintained by gardeners and farmers, particularly in isolated or ethnic minority communities in western countries.<sup>[1]</sup> These may have been commonly grown during earlier periods in human history, but are not used in modern large-scale agriculture.

In some parts of the world, notably the European Union, it is illegal to sell seeds of cultivars that are not listed as approved for sale.<sup>[2]</sup> The Henry Doubleday Research Association, now known as Garden Organic, responded to this legislation by setting up the **Heritage Seed Library** to preserve seeds of as many of the older cultivars as possible.

However, seed banks alone have not been able to provide sufficient insurance against catastrophic loss.<sup>[2]</sup> In some jurisdictions, laws have been proposed that would make seed saving itself illegal.<sup>[3]</sup>

Many heirloom vegetables have kept their traits through open pollination, while fruit varieties such as apples have been propagated over the centuries through grafts and cuttings. The trend of growing heirloom plants in gardens has been returning in popularity in North America and Europe in recent decades.



Only a few of the many varieties of potato are commercially grown; others are heirlooms.

## Contents

- 1 Origin
- 2 Requirements
- 3 Benefits
- 4 Collection sites
- 5 UK and EU law and national lists
- 6 US state law
- 7 Examples
- 8 See also
- 9 References
- 10 Further reading
- 11 External links

## Origin

Before the industrialization of agriculture, a much wider variety of plant foods were grown for human consumption. During the 19th and early 20th centuries the diversity was huge. Old nursery catalogues were filled with plums, peaches, pears and apples of numerous varieties.<sup>[4]</sup> In modern agriculture in the industrialized world, most food crops are now grown in large, monocultural plots. In order to maximize consistency, few varieties of each type of crop are grown. These varieties are often selected for their

productivity, their ability to withstand mechanical picking and cross-country shipping, and their tolerance to drought, frost, or pesticides.

Heirloom gardening is a reaction against this trend. In the Global South, heirloom plants are still widely grown, for example, in the home gardens of South and Southeast Asia. Before World War II, the majority of produce grown in the United States were heirlooms.<sup>[5]</sup>

In the 21st century, numerous community groups all over the world are working to preserve historic varieties to make a wide variety of fruit trees available again to the home gardener, by renovating old orchards, sourcing historic fruit varieties and encouraging community participation.



A selection of heirloom tomatoes

## Requirements

The definition and use of the word *heirloom* to describe plants is fiercely debated.

One school of thought places an age or date point on the cultivars. For instance, one school says the cultivar must be over 100 years old, others 50 years, and others prefer the date of 1945, which marks the end of World War II and roughly the beginning of widespread hybrid use by growers and seed companies. Many gardeners consider 1951 to be the latest year a plant could have originated and still be called an heirloom, since that year marked the widespread introduction of the first hybrid varieties. It was in the 1970s that hybrid seeds began to proliferate in the commercial seed trade. Some heirloom varieties are much older; some are apparently pre-historic.

Another way of defining heirloom cultivars is to use the definition of the word *heirloom* in its truest sense. Under this interpretation, a true heirloom is a cultivar that has been nurtured, selected, and handed down from one family member to another for many generations.

Additionally, there is another category of cultivars that could be classified as "commercial heirlooms": cultivars that were introduced many generations ago and were of such merit that they have been saved, maintained and handed down – even if the seed company has gone out of business or otherwise dropped the line. Additionally, many old commercial releases have actually been family heirlooms that a seed company obtained and introduced.

Regardless of a person's specific interpretation, most authorities agree that heirlooms, by definition, must be open-pollinated. They may also be open-pollinated varieties that were bred and stabilized using classic breeding practices. While there are no genetically modified tomatoes available for commercial or home use, it is generally agreed that no genetically modified organisms can be considered heirloom cultivars. Another important point of discussion is that without the ongoing growing and storage of heirloom plants, the seed companies and the government will control all seed distribution. Most, if not all, hybrid plants, if regrown, will not be the same as the original hybrid plant, thus ensuring the dependency on seed distributors for future crops.

## Benefits

Typically, heirlooms have adapted over time to the climate and soil they have been grown in. Due to their genetics, they are often resistant to local pests, diseases, and extremes of weather.<sup>[6]</sup>

## Collection sites

The heritage fruit trees that exist today are clonally descended from trees of antiquity. Heirloom roses are sometimes collected (nondestructively as small cuttings) from vintage homes and from cemeteries, where they were once planted at gravesites by mourners and left undisturbed in the decades since. Modern production methods and the rise in population have largely supplanted this practice.

## UK and EU law and national lists

In the UK and Europe, it is thought that many heritage vegetable varieties (perhaps over 2,000) have been lost since the 1970s, when EU laws were passed making it illegal to sell any vegetable cultivar not on the national list of any EU country. This was set up to help in eliminating dishonest seed suppliers selling one seed as another and to keep any given variety true. Thus, there were stringent tests to assess varieties, with a view to ensuring they remain the same from one generation to the next.

These tests (called **DUS**) assess "distinctness", "uniformity", and "stability". But since some heritage cultivars are not necessarily uniform from plant to plant, or indeed within a single plant—a single cultivar—this has been a sticking point. "Distinctness" has been a problem, moreover, because many cultivars have several names, perhaps coming from different areas or countries (e.g., carrot cultivar Long Surrey Red is also known as "Red Intermediate", "St. Valery", and "Chertsey"). However, it has been ascertained that some of these varieties that look similar are in fact different cultivars. On the other hand, two that were known to be different cultivars were almost identical to each other, thus one would be dropped from the national list in order to clean it up.

Another problem has been the fact that it is somewhat expensive to register and then maintain a cultivar on a national list. Therefore, if no seed breeder or supplier thinks it will sell well, no one will maintain it on a list, and so the seed will not be re-bred by commercial seed breeders.

In recent years, progress has been made in the UK to set up allowances and less stringent tests for heritage varieties on a B national list, but this is still under consideration.

One worldwide alternative is to submit heirloom seeds to a seedbank. These public repositories in turn maintain and disburse these genetics to anyone who will use them appropriately. Typically, approved uses are breeding, study, and sometimes, further distribution.

## US state law

In 2014, the Pennsylvania Department of Agriculture caused a seed-lending library to shut down and promised to curtail any similar efforts in the state.<sup>[7]</sup> The lending library, hosted by a town library, allowed gardeners to "check out" a package of open-pollinated seed, and "return" seeds kept from the crop grown from those seeds. The Department of Agriculture said that this activity raises the possibility of "agri-terrorism", and that a Seed Act of 2004 requires the library staff to test each seed packet for germination rate and whether the seed was true to type.<sup>[7]</sup> In 2016 the department reversed this decision, and clarified that seed libraries and non-commercial seed exchanges are not subject to the requirements of the Seed Act.<sup>[8]</sup>

## Examples

- Bhutanese red rice
- Black rice
- Heirloom tomato



Wikimedia Commons has media related to ***Heirloom plants***.

## See also

- Ark of Taste
- Biodiversity
- Community gardening
- History of gardening
- Association Kokopelli
- Landrace
- List of organic gardening and farming topics
- Local food
- Orthodox seed
- Rare breed
- Recalcitrant seed
- Seed saving
- Seedbank
- Slow Food
- Kyoyasai, a specific class of Japanese heirloom vegetables originating around Kyoto, Japan.

## References

1. Whealy, K. (1990). "Seed Savers Exchange: preserving our genetic heritage". *Transactions of the Illinois State Horticultural Society*. **123**: 80–84.
2. Powledge, F. (1995). "The food supply's safety net: If global agricultural crises occurred, could the international germplasm community survive a run on its genebanks?". *BioScience*. **45** (4): 235–243. doi:10.2307/1312415. JSTOR 1312415.
3. "Colombia farmers' uprising puts the spotlight on seeds". GRAIN. 3 September 2014. Retrieved 1 August 2014.
4. "FRUIT VARIETIES AVAILABLE IN VICTORIA DURING THE 19TH CENTURY". Archived from the original on 30 Nov 2012.
5. Boden, Sarah (September 8, 2014). "Heirlooms Passed Down By Seed Savers Exchange". Nebraska Educational Telecommunications. Retrieved 25 December 2014.
6. O'Donnell, Nancy (September 23, 2006). "Heirlooms Spice Up the Garden, and Life Itself". San Francisco Chronicle. Retrieved December 2, 2014.
7. Naomi Creason (July 31, 2014). "Department of Agriculture cracks down on seed libraries". *The Sentinel*. Retrieved December 2, 2014.
8. *Seed Libraries in Pennsylvania Allowed to Engage in Free Seed Exchange*, March 15, 2016, retrieved March 31, 2016

## Further reading

- Coulter, Lynn. *Gardening with Heirloom Seeds: Tried-and-True Flowers, Fruits, & Vegetables for a New Generation*.
- Cavagnaro, Sue Stickland ; foreword by Alan Gear ; photographs by David (1998). *Heritage vegetables : the gardener's guide to cultivating diversity*. London: Gaia Books. ISBN 1-85675-033-7.

## External links

- What is an heirloom vegetable? (<http://www.halcyon.com/tmend/define.htm>)
- Heirloom Vegetables (<http://www.clemson.edu/extension/hgic/plants/vegetables/gardening/hgic1255.html>) from the Home and Garden Information Center at Clemson University
- FAO/IAEA Programme Mutant Variety Database (<http://mvgs.iaea.org/AboutMutantVarieties.aspx>)

- FDA Statement of Policy - Foods Derived from New Plant Varieties (<http://www.fda.gov/Food/GuidanceRegulation/GuidanceDocumentsRegulatoryInformation/Biotechnology/ucm096095.htm>)
- DEFRA - Plant varieties and seeds (<http://archive.defra.gov.uk/foodfarm/growing/crops/varieties/>)

Retrieved from "[https://en.wikipedia.org/w/index.php?title=Heirloom\\_plant&oldid=748836958](https://en.wikipedia.org/w/index.php?title=Heirloom_plant&oldid=748836958)"

Categories: [Domesticated plants](#) | [Garden plants](#) | [Biodiversity](#) | [Rare breed conservation](#)

---

- This page was last modified on 10 November 2016, at 17:53.
- Text is available under the Creative Commons Attribution-ShareAlike License; additional terms may apply. By using this site, you agree to the Terms of Use and Privacy Policy. Wikipedia® is a registered trademark of the Wikimedia Foundation, Inc., a non-profit organization.