Huckleberries and Bilberries

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For more information on these crops and Huckleberry and Bilberry Association

the huckleberry industry, check out the

Western



What are Huckleberries and Bilberries?

Confused about what a huckleberry or bilberry is? Don't f eel alone. These common names ar e applied to many different plants growing around the world.

Eastern Huckleberries

Two species commonly called huckleberries are foun d in eastern North America. Black huckleberry (Gaylusaccia baccata) is widespread from the southern United States into Canada. Box huckleberry (G. brachycera) is found in the entral Appalachians. The fruits resemble blueberr ies and western huckleberries , but the flavor is typically poor to fair and the fruits contain ten large, hard seeds. Although widespread in eastern North America, the fruits have not proven commercially important. When it came time to domesticat e blue fruits for eastern North America, breeders chose highbush, rabbiteye, and lowbush bluebe rries. Like western huckleberries and domestic blueberries and cranberries, Gaylussacia huckleberries are acid-loving plants found in the heath family (Ericaceae).

Garden Huckleberries

"Garden huckleberries" are closely relate d to tomatoes and nightshade, and are commonly available from garden seed suppliers. Whether they are "true hucklebe rries" or not depends on who you talk to. Suffice it to say, they do not resemble and are not related to eastern or western huckleberries. Solanum melanocerasum is most commonly called garden huckleberry, but other Solanum species are, as well. These annuals or short-lived perennials grow quickly from seed, producing abundant crops of blue berries in a few mont hs. The flavor is often described as less than palatable and pects are poor. For more information on the berries can be toxic if not fully ri pe and prepared properly. Commercial pros garden huckleberries. click here

Western Huckleberries and Bilberries

In western North America, the common names hucklebe interchangeable. It is not unusual for a single plant to be call a single plant to have many different common names. And co

rry, bilberry, whortleberry, and blueberry are largely ed by two or more of these names. It is also not unusual for ntrary to some, these plants rate as true huckleberries.

Like their cousins in eastern North America, western huckleberries and bilberries are woody, perennial shrubs in the heath family. Also like their eastern cousins, western huckleberries and bilberries require acidic soils.

Unlike their eastern cousins, western huckleberries and bilb erries are found in genus Vaccinium, as are domestic highbush and lowbush blueberries, as well as cranberries. Worldwide, there are approximately 400 species of Vaccinium, about 26 of them being native to North America. The 26 North American species are further divided in to taxonomic sections. If you are interested in botany and taxonomy, read The Genus Vaccinium North America by Dr. S.P. Vander Kloet (Publication 1828, Canadian Government Publishing Centre).

Western huckleberries are in di fferent taxonomic sections (Myrtillus, Vaccinium, and Pyxothamnus)) than highbush and lowbush blueberries (Cyanococcus). Section Myrtillus species produce single berries in the axils of leaves on new shoots, while section Vaccinium and Pyxothamnus species produce small clusters of fruits. Highbush and lowbush blueberries develop relatively large clusters of be rries on one-year-old wood, producing greater yields than do huckleberries. The section Myrtillus contains eight species. Sections Vaccinium and Pyxothamnus each contain one species. Some species are found not only in North America, but also in Europe, Asia, and Greenland.

While western huckleberry and bilberry species are not thre resource. These crops were historically and remain today America. They have been harvested commercially from the w century for culinary products.

atened with extinction, they do represent a dwindling very important to some Nati ve Peoples in western North ild in the northwestern United States for more than a

Today, market demand is increasing sharply, nationally and internationally, for both culinary and nutritional uses. At the

same time, harvests from wild stands have declined due to pr otection of endangered species, such as caribou and grizzly bear; forest management practices; and residential and commercial development. Increasing demands and declining wild harvests have lead to overharvesting in some areas. This demand, however, also create sopportunities for commercial production on managed forest stands and in field cultivation. Both production sy stems can provide economic benefits to rural areas hurt by declining logging, mi ning, and other natural resource industries. Producing fruits from managed stands and field cultivation can also help protect sensitive environmental resources now being threatened by overharvesting.

Beginning in 1994, the University of Id aho began a program to better manage wild stands of huckleberries and to develop improved varieties and cultural practices that enab le people to grow these crops as we do blueberries. Our research has two basic goals:

- x Protect wild stands from overharvesting and preserve the scale processors. berries for recreational pick ers, tribal uses, and small-
- x Produce fruit commercially from managed forest stands and in field cultivation for processors and export.

For more information on our huckleberry research, click here .

Evergreen, Shot, or Blackwinter Huckleberry

Vaccinium ovatum is native along the Pacific coast from southern California to Central British Columbia and belongs to Vaccinium section Pyxothamnus . This species is found in coniferous forest s along roadsides and the edges of clearings. The bushes grow one to twelve feet ta II and form dense stands. The stiff, serra

Red Huckleberry or Red Bilberry

V. parvifolium is native to western Oregon, Washington, California, been reported in interior and eastern British Columbia. This section Myrtillus species grows from sea level to 3,500 feet elevation in and around clearings. The bu shes grow from three to more than twen ty feet tall. The red, waxy fruits were popular in jams and preserves with all coas tal Indian tribes, although the flavor tends to be sour. Berries can hang on the branches until early winter. The fruit contains low concentrat ions of anthocyanins and low antioxidant capacity, although it is rich in p-hydroxybenzoic acid. Red huckleberries woul d probably be among the easiest of the western species to cultivate and there is some commercial demand for the fruits.

Grouse Whortleberry, Small-leaved Huckleberry,
V. scoparium is native throughout western North America in alpi ne and subalpine meadows an d at edges of coniferous woods from 3,000 to 11,000 feet el evation. It belongs to section Myrtillus . The rhizomatous plants grow three to eighteen inches tall, fo rming dense, extensive colonies. The berries are tiny with fair to good flavor. They are not harvested commercially due to sma II fruit size and soft berries.

Dwarf Huckleberry, Dwarf Blueberry, Dwarf Bilberry, or Dwarf Whortleberry

V. caespitosum is native throughout North America and belongs to section Myrtillus . The plants grow three to twenty-four

inches tall and bear bright blue berries with excellent flavor. This species is adap table and is found on dry or wet acidic sites from sea level to 10,000 feet. It can form extensive colonies. Although used for food and trade by Native Americans, commercial pickers do not presently target it due to small berry size.

The University of Idaho is presently cond ucting research on this species and deve loping cultivated varieties. The most likely immediate application will probably be for edible landscaping, rather than commercial fruit production.

Bilberry, Dwarf Bilberry, Dwar f Huckleberry, or Whortleberry

V. myrtillus is native to North America, Europe, and Asia. It is found in open, moist wood s, usually above 2,000 feet elevation in North America. In Europe, this species grows to near sea level and often forms large, dominant colonies. Plants grow six to twenty-four inches tall. The berries cont ain antioxidants and compounds beneficial to human health and are popular in Europe for culinary and medicinal use.

Although bilberry is not presently harvested commercially in No rth America, it is harvested commercially from the wild in Finland and other European countries. Limited attempts have been made to grow the crop in cultivation. Commercial prospects for medicinal and nutritional supplement products are promising.

The University of Idaho is working to develop cultivated varieties of this crop and we presently have 28 early or advanced selections in our cultivar development program.



Alpine Bilberry, Bilberry, Bog Bilberry or Tundra Bilberry

V. uliginosum is native to North America, Europe, and Asia from 38 ° to 78 ° north latitudes and from sea level to 9,000 + feet elevation. It belongs to genus Vaccinium section Vaccinium . This species grows on wet or dry, acidic, organic or mineral soils and is often found at the edges of lakes and streams. The plants grow from several inches to about 36 inches tall, bearing single berries or clusters of two or three glaucous, blue berries one-fourth inch in diameter. The flavor is good, but yields are often low. Alpine bilberry is harvested from the wild for domestic and commercial use in Asia and northern Europe. Some attempts have been made in Europe to cultivate the crop. Alpine bilberry is not

Cascade Huckleberry, Cascade Bilberry, or Blue Huckleberry

V. deliciosum is native to California, Oregon, Washington, and coniferous woods at elevations from 2,000 to 6,000 feet. It belongs to section miches tall, although the procumbent canes can be six feet long or longer). The lateral outstanding flavor and aroma due to high concentrations of esters and ketones.

British Columbia in alpine meadows and subalpine myrillus. The plants grow six to thirty-six rge, bright blue, glaucous berries have yield potential may be low due to the fruit being borne only at the ends of the canes, although the is problem should be manageable through occasional pruning.

Adapted to wet soils and often found at edges of ponds, Ca form dense heaths covering hundreds to thousands of square

scade huckleberry also grows on drier upland soils and can feet. The berries are very po

Mountain Huckleberry, Mountain Bilberry, Black Huckleberry, Tall Huckleberry, Big

Huckleberry, Thin-leaved Huckleberry, Globe Huckleberry, or Montana Huckleberry

V. membranaceum is native to the northwestern U.S. and western Canada, with outcroppings in Arizona and Minnesota.

It belongs in section Myrtillus . The plants are usually found in coniferous woods from 2,000 to 11,000 feet elevation,

primarily in or around clearings. Canes grow one to nine feet tall. The bushes are rhizomatous (grow from underground