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| beaked hazelnut |
| *Corylus cornuta* Marsh. |
| Plant Symbol = COCO6 |

*Contributed By: USDA NRCS National Plant Data Center & the Biota of North America Program*

Alternate Names

California hazel, California hazelnut, California filbert (these names applying only to the Californian variety)

Uses

Beaked hazelnut is commercially grown for the edible nuts and used in wildlife habitat plantings to provide cover and nuts, which are eaten by squirrels, deer, grouse and pheasant. American Indians -- picked in early autumn, stored until fully ripe, and then roasted or eaten raw, also used the nuts. They were pounded into cakes with berries, meat, or animal fat and also boiled to extract the oil, which was used as flavoring. The nut's milk was used to cure coughs and colds, to heal cuts, and as an astringent. The wood was fashioned into arrows, fishing traps, hooks, and spoons and the long, flexible shoots were twisted into rope.

Beaked hazelnut has limited ornamental value and cultivars apparently have not been developed.

Status

Please consult the PLANTS Web site and your State Department of Natural Resources for this plant’s current status, such as, state noxious status, and wetland indicator values.

Description

*General:* Birch family (Betulaceae.: Native shrubs or small trees growing 1-8(-15) meters tall, rhizomatous and forming colonial thickets; main stems (or trunk) straight, with spreading, ascending branches, the twigs light brown, sometimes with glandular hairs. Leaves are deciduous, alternate, nearly round to narrowly ovate or ovate-oblong, with a heart-shaped or rounded base, often nearly angular and slightly lobed near the tip, 4-10 cm long, blunt to broadly acute, doubly serrate, usually pubescent on major veins and in vein axils, the petiole with or without glandular hairs. Male (staminate) and female (pistillate) flowers are separate, but both types present on each plant (the species monoecious); male flowers numerous in long, pendulous stalks (catkins) 4-6 cm long, in clusters of 2-3 near branch tips, appearing in the fall but opening the following spring; female flowers: several in a scaly bud, tiny and inconspicuous with only bright red stigma and styles protruding from the otherwise gray-brown buds, almost completely enclosed by bracts, near the end of the twigs. Fruit is an acorn-like nut about 2 cm in diameter, completely concealed by two, leafy, coarsely toothed (husk-like) bracts fused at the tip and forming an extended tubular beak. The common name refers to the bracteal beak of the fruit; “hazel” from the Old English name for filbert.



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*Variation within the species*: beaked hazelnut is divided into two distinct entities:

*Corylus cornuta* Marsh. var. *cornuta*

synonym: *Corylus rostrata* Ait.

*Corylus cornuta* var. *californica* (A. DC.) Sharp

synonym: *Corylus californica* Rose

synonym: *Corylus rostrata* var. *californica* A. DC.

synonym: *Corylus cornuta* var. *glandulosa* Boivin

Var. *californica* differs from var. *cornuta* in habit, leaf shape, the presence of glandular hairs, form and size of the involucre, geography, and other features, summarized in the contrast below.

1. Small to large shrubs; leaf blades ovate to narrowly elliptic, apex distinctly acuminate; twigs and petioles without glandular hairs; bracteal beak 2 times or more the fruit length.

…………..........………........... var. *cornuta*

1. Large shrubs or small trees; leaf blades nearly round or broadly elliptic, apex broadly acute to obtuse; twigs and petioles usually with glandular hairs; bracteal beak less than 2 times the fruit length.

................................................... var. *californica*

Preliminary studies of the beaked hazelnut complex world-wide, one North American species with two varieties or subspecies and one east Asian species with two varieties, indicate that *Corylus cornuta* var. *cornuta* is overall more similar in morphology to the east Asian *C. sieboldiana* Blume than to var. *californica*, suggesting that *C.* *cornuta* is better regarded as two separate species.

Distribution and Adaptation

**Var. *cornuta***: eastern north America from Alabama and Georgia (Appalachian) northward to Newfoundland, westward through Canada and the Great Lakes states to northeast British Columbia, with several disjunct population systems. Open woods or openings, edges of woods, thickets, fencerows, and roadsides and other disturbed areas, slopes and well-drained streamsides, at 100--500 meters elevation. Flowering early spring, before leafing; fruiting fall.

**Var. *californica***: from the northern half of California to Oregon, Washington, and southern British Columbia, along the pacific coast. Damp rocky slopes and stream banks in coastal mountain ranges, at 1000--2500 meters elevation. Flowering: very early spring, before leafing; fruiting: fall.

Establishment

No information available; probably similar to American hazelnut.

Management

Beaked hazelnut is removed by growers of commercial, closely managed forests, primarily because of its aggressive colonial habit and corresponding competition with timber trees.

Cultivars, Improved and Selected Materials (and area of origin)

Contact your local Natural Resources Conservation Service (formerly Soil Conservation Service) office for more information. Look in the phone book under ”United States Government.” The Natural Resources Conservation Service will be listed under the subheading “Department of Agriculture.”

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