



## Quercus muehlenbergii



<b>Height</b>	20 m
<b>Width</b>	15-20m
<b>Crown</b>	vase-shaped, half-open crown
<b>Bark and branches</b>	branches brownish grey to reddish brown: bark light grey, shallowly grooved or peeling off in small plates
<b>Leaf</b>	elongated, 6-18 cm long, glossy green to yellow-green, margins shallowly lobed to toothed
<b>Flowers</b>	catkins, inconspicuous
<b>Fruits</b>	oval acorn, 1-2 cm long, edible
<b>Spines/thorns</b>	None
<b>Toxicity</b>	usually not toxic to people, (large) pets and livestock
<b>Soil type</b>	clayed soil, loamy soil, sandy soil, calcareous soil
<b>Paving</b>	tolerates no paving
<b>Winter hardiness zone</b>	5b (-26,0 to -23,4 °C)
<b>Wind resistance</b>	moderate
<b>Other resistances</b>	resistant to frost (WH 1 - 6)
<b>Application</b>	industrial areas
<b>Shape</b>	clearstem tree

Quercus muehlenbergii is a large tree with a round crown up to 20 m. In exceptional cases, the tree can grow up to 30 m tall. At a young age, Q. muehlenbergii can grow strongly. The bark is light grey and shallowly grooved or detached in small plates. The leaves are oblong and glossy mid-green to yellow-green on the upper side. The underside is grey-green and thin, felt-like hairs. The leaf margin is shallowly lobed to toothed. The lateral veins always end in a short point, at the apex of each tooth or leaf lobe. The oval acorns measure 1-2 cm and are about half enclosed by the cup. This is studded with thick, hairy scales. The acorns are edible and taste sweet.

Q. muehlenbergii is not a rare species in nature, but is not found anywhere in large numbers. It is a typical species of continental USA and does not occur in coastal areas. The tree therefore does not tolerate sea breezes. Q. muehlenbergii prefers moist but well-drained soils. Nevertheless, the tree also tolerates drought. A neutral to calcareous soil is desirable for good growth.

The wood is hard and durable, but because the tree is not common it is little used.