

Table 1. Sample morphological matrix for six species of oaks (*Quercus*) of North America.

OTUs	Bark (platy vs. ridged vs. polygonal)	Leaf shape (oval/elliptic vs. cross- like vs. spatulate)	Leaf lobe sinuses (shallow vs. deep)	Lobes (apically disposed vs. throughout)	Leaf tips (lacking bristles or with bristles)	Acorn cup texture (flat vs. knobby)	Cup scale (not fused vs. fused)	Acorn maturation (1 yr vs. 2 yrs)	Habitat (wet vs. dry)
A (<i>alba</i>)	Platy	Oval/Elliptic	Deep	Throughout	Lacking	Knobby	Not fused	1	Dry
B (<i>michauxii</i>)	Platy	Oval/Elliptic	Shallow	Throughout	Lacking	Knobby	Not fused	1	Wet
C (<i>montana</i>)	Ridged	Oval/Elliptic	Shallow	Throughout	Lacking	Flat	Fused	1	Dry
D (<i>stellata</i>)	Platy	Cross-like	Deep	Throughout	Lacking	Knobby	Not fused	1	Dry
E (<i>nigra</i>)	Tight	Spatulate	Shallow	Apically disp.	With	Flat	Not fused	2	Wet
F (<i>marilandica</i>)	Polygonal	Spatulate	Shallow	Apically disp.	With	Flat	Not fused	2	Dry