

Scientific Name: *Quercus palustris*

Common Name: Pin Oak

Environmental Conditions:

Hardiness Zone: 5a

Soil Moisture:

VERY WET			VERY DRY								
occasionally saturated or very wet soil			consistently moist, well drained soil			occasional periods of dry soil			prolonged periods of dry soil		
2	3	4	5	6	7	8	9	10	11	12	

Sun/Shade: full sun

Salt: sensitive

pH: ≤ 7.0 (iron chlorosis in high pH soils)

Insect/Disease Factors: over planting has encouraged problems, including gypsy moth, oak wilt, galls, and cankers, resistant to anthracnose

Growth Characteristics:

Height: 50'-70' (can reach 100'+)

Width: 40'-50'

Form/Habit: pyramidal in youth, oval with age, strong central leader, distinct branching habit – upper branches upright, middle branches horizontal, and lower branches descending

Rate: fast for an oak

Ornamental Characteristics:

Flower: pale yellow-green catkins, spring as leaves emerge

Fruit: acorns

Seasonal Foliage Color: glossy dark green (if soil has appropriate pH) in summer, scarlet in fall

Bark: gray-brown, thinner, smooth, develops narrow ridges and shallow furrows with age

Other: young trees hold leaves throughout winter

Transplant Issues: only transplant B&B, moderately difficult to transplant bare root, better success in transplanting bare root in fall, do not attempt to transplant > 2" caliper trees bare root

Management Issues: acorns may be a litter problem certain years, descending lower branches may need pruning where clearance is needed

Suggested Uses: wide street tree lawns/pits or parks preferred due to size

Cultivars: 'Green Pillar' (also called 'Emerald Pillar', columnar form, delayed graft incompatibility may be a problem), 'Crownright' and 'Sovereign' (lower branches are more upright) were taken out of production due to delayed graft incompatibility problems

