# Swamp White Oak

*Quercus bicolor*

Mature

Native Range

## General Attributes

| | |
|---|---|
| **Type** | Deciduous Tree |
| **Height** | 35 - 70 Feet |
| **Spread** | 25 - 50 Feet |
| **Form** | Rounded |
| **Utility Lines** | Incompatible |
| **Growth Rate** | Medium |
| **Life Expectancy** | Medium |
| **USDA Zone** | 4 - 8 |
| **Root Pattern** | Deep Lateral |

## Plant Community

| | |
|---|---|
| **Sun** | Full Sun, Partial Sun |
| **Orientation** | North, South, East, West |
| **Soil Texture** | Loam to Clay |
| **Topography** | Upland, Lowland (Flood Prone), Lowland (Stable Water) |
| **Plant Community** | Forest, Wooded Swamp |
| **Succession** | Pioneer, Intermediate |
| **Origin** | MSA Zone 1, MSA Zone 2, MSA Zone 4, MSA Zone 6, Minnesota, North America |

## Flowers/Foliage/Fruits

| | |
|---|---|
| **Flower Color** | Yellow |
| **Flower Season** | Spring |
| **Fruit** | Nut |
| **Fruit Color** | Light Brown |
| **Fruit Season** | Fall |
| **Summer Texture** | Medium |
| **Winter Texture** | Medium |
| **Spring Foliage** | Green |
| **Summer Foliage** | Green |
| **Fall Foliage** | Yellow |
| **Winter Foliage** | Not Applicable |

## Soils

| | |
|---|---|
| **Salt Spray Tolerance** | Moderate |
| **Soil Salt Tolerance** | |
| **Compaction Tolerance** | Tolerant |
| **Water Table** | 24 Inches |
| **Drainage** | Poor, Moderate |
| **Flood Tolerance** | |
| **Drought Tolerance** | Tolerant |
| **Moisture Regime** | Dry, Moist, Wet |
| **pH** | 6.0 through 7.5 |
| **Windbreak Group** | |

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## Planting Ease

| | |
|---|---|
| **Spring Bareroot** | Easy |
| **Fall Bareroot** | |
| **Spring Container** | Easy |
| **Fall Container** | Easy |
| **Spring Seed** | |
| **Fall Seed** | |

## Maintenance

| | |
|---|---|
| **Formal** | Moderate |
| **Informal** | Low |
| **2,4-D Tolerance** | Sensitive |
| **Dicamba Tolerance** | Sensitive |
| **Picloram Tolerance** | Sensitive |
| **Clopyralid Tolerance** | |
| **Artificial Light** | |
| **Sulfur Dioxide** | |
| **Ozone Tolerance** | |
| **Hydrogen Flouride** | |
| **Nitrogen Oxide** | Tolerant |

## Pests/Problems

| | |
|---|---|
| **Allergens** | males 8, females 8 |
| **Invasiveness** | Non-Invasive |
| **Toxicity** | |
| **Cold Injury** | Moderately Susceptible |
| **Storm Damage** | Not Susceptible |
| **Biological Control** | |
| **Mechanical Control** | |
| **Chemical Control** | |

## Miscellaneous

| | |
|---|---|
| **Wildlife Rating** | High |
| **Insect Concerns** | Minor |
| **Disease Concern** | Minor |
| **Wildlife Concerns** | |

## Comments

Good transplant success because of less developed taproot. Good boulevard or shade tree. Requires acid soil or iron chlorosis is observed. Bare root plants require sweating; not recommended for fall planting.

Bark

Fall

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Flower

Immature

Leaf