Pinus brutia
(Turkish Pine)

"Two wild Pine species, the Aleppo and the Brutian Pines, grow in Lebanon in pure or mixed pine-oak forests at elevations up to 1800 meters above sea level. The trees can be up to 25 meters high, and their canopies are round, flat topped, or open, with irregular branches. The shapes of trees growing along the coast are often distorted by the wind. The two species are similar except for slight differences in cone shape and arrangement relative to the stem. The cone of the Aleppo Pine is attached to the branch by a stalk, and it grows parallel to the branch. The Brutian Pine cone has no stalk, and it grows perpendicular to the branch. Both Aleppo and Brutian Pines are native to Lebanon and the eastern Mediterranean."


<table>
<thead>
<tr>
<th>Landscape Information</th>
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<tbody>
<tr>
<td><strong>French Name:</strong> Pin de Calabre</td>
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<tr>
<td><strong>Arabic Name:</strong> صنوبر بروتي</td>
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<tr>
<td><strong>Plant Type:</strong> Tree</td>
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<tr>
<td><strong>Origin:</strong> Mediterranean</td>
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<tr>
<td><strong>Heat Zones:</strong> 1, 2, 3, 4, 5, 6, 7, 8, 9</td>
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<tr>
<td><strong>Hardiness Zones:</strong> 7, 8, 9</td>
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<tr>
<td><strong>Uses:</strong> Windbreak, Wildlife, Erosion control, Native to Lebanon</td>
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<tr>
<td><strong>Size/Shape</strong></td>
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<tr>
<td><strong>Growth Rate:</strong> Fast</td>
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<tr>
<td><strong>Tree Shape:</strong> Upright</td>
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<tr>
<td><strong>Canopy Symmetry:</strong> Irregular</td>
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<td><strong>Canopy Density:</strong> Open</td>
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<td><strong>Canopy Texture:</strong> Coarse</td>
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<tr>
<td><strong>Height at Maturity:</strong> 15 to 23 m</td>
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<tr>
<td><strong>Spread at Maturity:</strong> 10 to 15 meters</td>
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<tr>
<td><strong>Time to Ultimate Height:</strong> 20 to 50 Years</td>
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</tbody>
</table>
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### Botanical Description

#### Foliage
- **Leaf Arrangement:** Spiral
- **Leaf Venation:** Nearly Invisible
- **Leaf Persistence:** Evergreen
- **Leaf Type:** Simple
- **Leaf Blade:** 5 - 10 cm
- **Leaf Shape:** Needle
- **Leaf Margins:** Entire
- **Leaf Textures:** Waxy
- **Leaf Scent:** Pleasant
- **Color (growing season):** Green
- **Color (changing season):** Green

#### Flower
- **Flower Showiness:** False

#### Trunk
- **Trunk Susceptibility to Breakage:** Generally resists breakage
- **Number of Trunks:** Single Trunk
- **Trunk Esthetic Values:** Not Showy

#### Fruit
- **Fruit Type:** Cones
- **Fruit Showiness:** True
- **Fruit Size Range:** 7 - 10
- **Fruit Colors:** Brown
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## Horticulture Management

### Tolerance
- **Frost Tolerant:** Yes
- **Heat Tolerant:** No
- **Drought Tolerant:** Yes
- **Salt Tolerance:** Poor

### Requirements
- **Soil Requirements:** Clay, Sand
- **Soil pH Requirements:** Neutral, Alkaline
- **Water Requirements:** Low
- **Light Requirements:** Full, Part

### Management
- **Toxity:** No
- **Invasive Potential:** Yes
- **Susceptibility to Pests and Diseases:** No
- **Pruning Requirement:** No pruning at all
- **Fruit/Leaves/Flowers litter:** No
- **Surface Rooting:** No
- **Life Span:** More than 50
- **Edible Parts:** None
- **Plant Propagations:** Seed