

Tree Report of 20646



Genus
Samanea

Species
saman


Common Name
Hujan-hujan

Date of report
27th January, 2026

Address
Jalan P11

Position
2.950127130531257, 101.67622484036427



 Static map of tree location



Tree Report of 20646



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Samanea

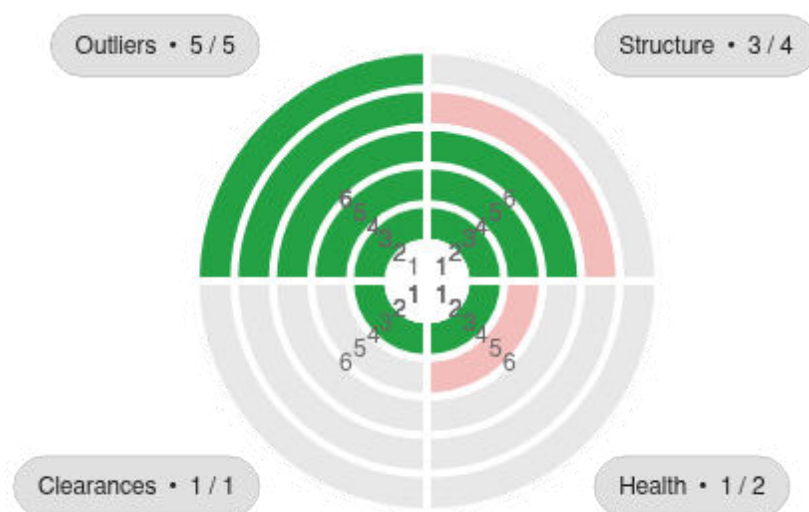
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Structural assessment

- ✗ Trunk stability (base)
- ✓ Crown Lean Angle
- ✓ Slenderness
- ✓ Dieback

Health & Vitality

- ✓ Dieback
- ✗ Foliage Transparency

Clearances

- ✓ Road

Outliers

- ✓ DBH vs Leaf Area
- ✓ Height vs Crown Volume
- ✓ DBH vs Height
- ✓ Leaf Area vs Crown Volume
- ✓ DBH vs Crown Volume

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Dimensions

Total Height	Very high	19.56 m	Crown Spread	Very large	18.59 m
Trunk Height	Medium	1.99 m	Tree Protection Zone	Very large	9.73 m
DBH	Very large	0.82 m	Root Protection Zone	Very large	14.6 m
Crown Height	Very large	11.6 m	Number Of Stems	Low	1

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Structural assessment

Stability

Slenderness	Low	24.13	Crown Lean Angle	Very high	19.18 °
Trunk Stability Index		2.15	Trunk Lean Angle	Very high	10.09 °
Critical Wind Speed		100 kmh			

Limbs

Number of Limbs	-	Fork Types	-
Codominant Stems	-	Cross-sectional shape	-
Included Bark	-		

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Health and vitality

Condition & Vigor

Dieback	Low	0.84%	Foliage Transparency	34.48%
Basal Area Increment	-		Leaf Area	Very large 918.02 m ²
NDVI	-		Leaf Area Index	Low 4.64

Foliage

Leaf Area Density	Low	0.47 m ² /m ³	Live Crown Ratio	Medium 59.3%
Crown Volume	Very large	1,986.24 m ³		

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Benefits

Water management

Avoided Water Runoff	Very high	0.74 m ³ /yr	Evaporation	Very high	12.98 m ³ /yr
Potential Evapotranspiration	Very high	80.15 m ³ /yr	Transpiration	Very high	15.38 m ³ /yr
Water Intercepted	Very high	13.07 m ³ /yr			

Ecosystem services

Carbon Storage	Very high	2,303.86 kg	CO Removal	Very high	29.02 g/yr
Carbon Sequestration	Very high	97.05 kg/yr	NO ₂ Removal	Very high	114.69 g/yr
Oxygen Production	Very high	256.44 kg/yr	O ₃ Removal	Very high	1,382.32 g/yr
PM _{2.5} Removal	Very high	72.18 g/yr	SO ₂ Removal	Very high	247.45 g/yr

Economical value

Cavat Value Very valuable 22,787.98 £

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Outlier information

Height / Crown Volume	No	Trunk Diameter / Height	No
Height / Leaf Area	No	Trunk Diameter / Leaf Area	No
Leaf Area Density Outlier	No	Overall Outlier Index	Low 0
Trunk Diameter / Crown Volume	No		

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Clearances

Building Clearance

⌵ Not available

Road Clearance

✅ No issue

Wire Clearance

⌵ Not available

Traffic Sign Clearance

⌵ Not available

Visibility Clearance

⌵ Not available

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