



1/16/2024

Argosy International



ARGOSY INTERNATIONAL
DELIVERING PERFORMANCE

Thank you for your interest and investment in Trella's trees. These trees in China are part of global work stabilizing the climate.

There are 100 trees in your Trella tree portfolio. They have already removed 0.01 tons of carbon from the atmosphere and when they are 25 years old they will hold approximately 13.8 tons of stored carbon. Trees incorporate carbon into the wood of their roots, stems, and branches where it's held until the wood decomposes or burns. The durability of wood makes carbon sequestration by trees an appealing and effective climate supporting action.

Our carbon, pollution, and stormwater runoff removals are science-based estimates, customized to China. The environmental benefits provided by each tree will vary with tree growth, health, and local environmental conditions like rainfall, temperature, length of growing season, and pollution levels. We estimate the pollution removal your trees provide is 0.1 kg per year. This includes the tiny particles of PM2.5, ozone, nitrous oxide, and sulfur dioxide that lodge deep in the lungs and contribute to cardiopulmonary disease, and cancer. The leaves, stems and roots also help to slow and remove stormwater runoff in the urban forest. We estimate your trees have a 60 m3 impact.

Measurements of the space trees occupy is an easy way for people to understand the impact of urban trees in a city. It's why we talk about a forest in terms of area replanted. We build that idea into the urban forest by assigning each tree 25 m2 of space and then convert that to hectares (10000 m2 per ha). Your trees occupy 0.3 hectares in the city. When you look out a high-rise window, you understand the benefit provided by the trees stories below, or down the block. Your trees are only going to get better with age, and they represent real biodiversity increase in the urban forest canopy. Your portfolio has 1 China native species. International scientists use the biological vulnerability of each species to classify them. Growing trees threatened or endangered with extinction helps preserve the species. And trees with flowers pollinated by insects provide food sources for native pollinators.

The social and ecological benefits provided by the trees in your portfolio come together in your tree impact report below. Contact us to boost your ownership or to sponsor more trees in one of our upcoming programs.

Thanks for your support,

Trella team

Client ID:999976



Trella Impact Report

1/16/2024

2023 Impact Summary of Owned and Sponsored Trees for

Client ID:999976



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Owned & sponsored China native trees	100
Tons carbon offset ¹ , current	0.02
Tons carbon offset ¹ , 25 year projection	14
2023 tons carbon offset added with new trees, 25 year projection	-
Clean air impact	
Pollution removal kg/year ²	0.0
Clean water impact	
Stormwater runoff avoided m ³ /year ³	60
Urban impact - hectares equivalent	0.3
Total owned trees	100
Sponsored trees - purchased and given away	-
Sponsored in 2023	-

Prepared for: Argosy International (999976)

Impact of your Trella trees	<u>2022</u>	<u>2023</u>	<u>%</u>
Total owned & gifted trees	100	100	0%
Owned trees	100	100	0.0%
Tons carbon offset, current	0.01	0.02	33.3%
Tons carbon offset - 25 year projection	14	14	0.0%
Sponsored trees	-	-	-
Tons carbon offset, current	-	-	-
Tons carbon offset - 25 year projection	-	-	-

Biodiversity Impact of Trella Trees ⁴	<u>Owned</u>
Native tree species	1
Rare native species	-
Trees in vulnerable ecological status	-
Near threatened ecological status trees	-
Trees with endangered ecological status	-
Trees that aid pollinators	-

Economic & Social Impact of your Trella Trees

Education Programs	<u>2022</u>	<u>2023</u>	<u>%</u>
Sponsored schools	-	-	
Students impacted	-	-	
Sponsored programs	-	-	
People in programs outside schools	-	-	
Additional Sponsorship			
Events Sponsored	-	-	
People impacted	-	-	

¹ Tons of carbon offset estimate source: i-Tree Eco v6: version 6.0.23.

Carbon sequestration removes carbon dioxide from the air, splits the oxygen off and builds the carbon into the above-ground and below-ground wood of plants. The carbon is trapped there until the wood breaks down through decomposition or combustion. i-Tree uses biomass equations and estimated annual growth to make carbon sequestration and storage calculations. It's been found that tree dry-weight is 50 percent carbon. The allometric equations used estimate the dry-weight of a tree without requiring its destruction.

² Source of pollution removal estimate: i-Tree Eco v6: version 6.0.23, for aggregates PM2.5, O3, NO2, and SO2. It will vary each year with ambient pollution levels. The values here are an estimation of pollution removal, not actual values.

³ Source of estimated avoided stormwater runoff: i-Tree Eco v6: version 6.0.23. The values here are estimates and will vary annually with rainfall and location.

⁴ Urban impact - hectares equivalent is an estimate of each tree's physical presence in the urban forest. We use 25 m², though arguably the impact of trees in the urban environment extends over a much broader area.

⁵ The Biodiversity Impact statements are meaningful together because they are metrics for measuring the health of the urban forest. The majority of trees used in cities like Shanghai are from just a handful of species, many not native to China. Trella's native and rare species represent real biodiversity increase in the urban forest canopy. And Trella trees that are considered vulnerable, near threatened and endangered by the international scientific community have even greater impacts. Trees with flowers pollinated by insects, birds and other animals have direct measurable impact on pollinator populations. Getting more native pollinator visited trees into China's cities will maintain and increase biological diversity. Other common measurement metrics, like percent canopy cover are outside Trella's current reach.