Impact Summary

Downtown Louisville Tree Canopy Improvement Louisville, KY TreesLouisville, Inc.



Project Goals

TreesLouisville, in partnership with Bulleit Bourbon, American Forests, and the City of Louisville, planted 35 trees along East Witherspoon Street in Louisville's Central Business District (CBD). The CBD currently has the lowest tree canopy cover of any neighborhood, measuring only 9%. Trees will provide shade along a wide pedestrian pathway, mitigate stormwater in an area with a higher-than-average percentage of impervious surfaces, and intercept air pollutants and particulate matter emitted from the highway. It will allow residents greater access to green space and create a more welcoming environment for thousands of individuals and families to play, exercise, and travel.

Human Health

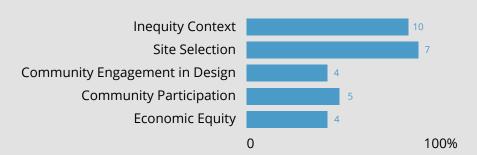




Social Equity



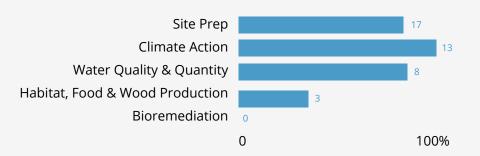
30/50 Excellent



Environment



41/50
Exceptional



Impact Summary

Downtown Louisville Tree Canopy Improvement





Credits: TreesLouisville

Provide shade, filter air, and promote recreation

This planting ties into a larger, concentrated effort by Louisville Metro Urban Forestry to strategically increase tree canopy in the Central Business District. Louisville has been ranked the fifth-unhealthiest city in the U.S. by the American College of Sports Medicine, in large part due to the high rates of obesity among its residents. Improving quality of and access to green spaces will encourage active lifestyles and a respite from busy city life. The broad, dense canopy of the Swamp White Oaks will cool and clean the air, and the Green Giant Arborvitae will buffer noise and air pollution from nearby high-traffic roads.

UN Sustainable Development Goals



Improve health and well-being for residents and trail users



Mitigate stormwater runoff



Support local businesses



Increase tree canopy and benefits for all



Promote wellness and livability



Reduce urban heat and energy needs



Deliver local climate action, quantify benefits



Support wildlife, climate resilience



Enhance downtown improvement efforts



Multi-partner project, community based tree care

Quantified Benefits

Projected values (avoided costs) for ecosystem benefits per year in 25 years

Carbon Sequestration

35.95 metric tons of CO2 \$898.83 (at \$25/ton)

Rain Interception

541.49 m3/year \$886.89 per year

Air Quality

O3 - 0.010 t/yr NOx - 0.002 t/yr PM10 - 0.004 t/yr \$30.42 per year

Energy Savings

Electricity - 3,026.04 kWh/yr Natural Gas - 8,244.59 kBtu/yr \$285.46 per year