

Impact Summary

Washington High & Maryland Elementary Tree Plantings
Phoenix, AZ
Arizona Sustainability Alliance



Project Goals

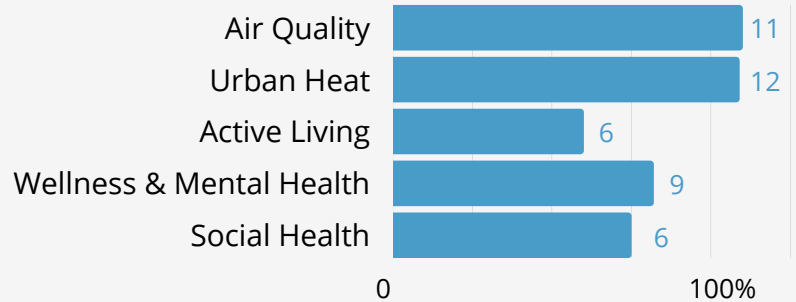
Arizona Sustainability Alliance, in partnership with American Forests and Bank of America, planted 56 trees at Maryland Elementary School and Washington High School in Phoenix, AZ in December 2022. Trees were planted around walking paths, sports fields, and play areas to encourage recreation, increase shade, and promote tree equity at two Title 1 schools in zip codes 85015 and 85021. Predominantly neighborhoods of color, these zip codes have a tree canopy of just 7%, half the city-wide average. With Phoenix among the fastest warming cities in America, this project represents one step towards improved cooling and greater tree equity for students and the community.



Human Health



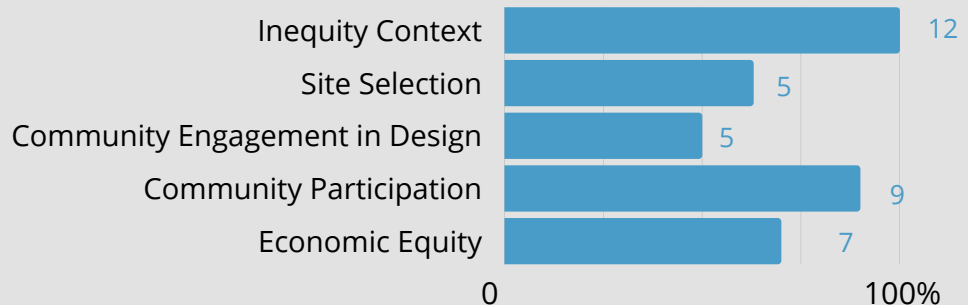
44/50
Exceptional



Social Equity



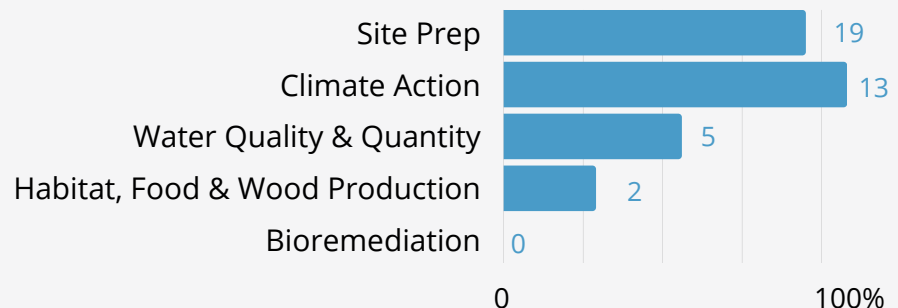
38/50
Excellent



Environment



39/50
Excellent



Impact Summary

Washington High & Maryland Elementary Tree Plantings



Credit: Arizona Sustainability Alliance

Promote tree equity, increase shade for outdoor recreation and play

To foster a sense of ownership for the trees and provide learning opportunities, AZSA engaged students, staff, and community members, including the Girl Scouts Arizona Cactus Pine chapter, to join the volunteer planting event. Long-term, AZSA will also involve students in their 5-year plan to monitor the growth and health of trees, ensuring the community reaps the promised benefits of these trees to promote active recreation, play, and greater well-being.

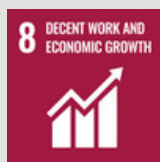
UN Sustainable Development Goals



Promote outdoor sports and play



Increase water capture and infiltration



Local sourcing of materials



Increase tree equity



Inclusive access to greenspaces



Reduce urban heat and energy needs



Deliver local climate action, quantify benefits



Enhance local habitat



Community-based partnerships

Quantified Benefits

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

Carbon Sequestration

40.9 metric tons of CO₂
\$1,022 (at \$25/ton)

Rain Interception

178 m³/year
\$226 per year

Air Quality

O₃: 0.0055 t/yr
NO_x: 0.0027 t/yr
PM₁₀: 0.0052 t/yr
\$141 per year

Energy Savings

Electricity - 7,476 kWh/yr
Natural Gas - 4,601 kBtu/yr
\$946 per year