

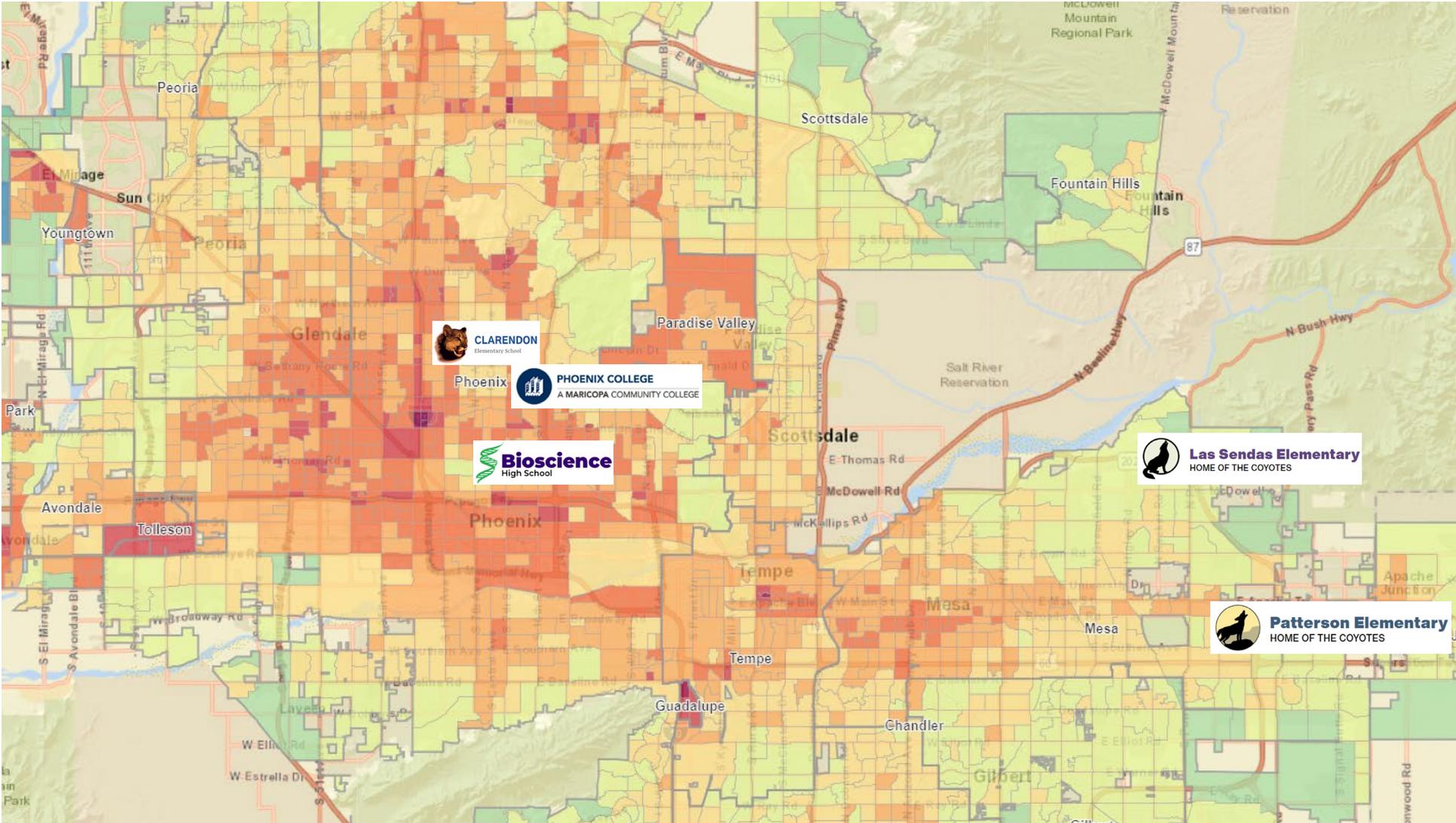


Storm Smart Schools



Empowering school communities
to design and install urban forests
with green stormwater
infrastructure





CLARENDON
Elementary School



PHOENIX COLLEGE
A MARICOPA COMMUNITY COLLEGE



Bioscience
High School



Las Sendas Elementary
HOME OF THE COYOTES



Patterson Elementary
HOME OF THE COYOTES



Before

Total rooftop collection area: **2,400 sq ft**

Annual rainwater collection potential: **34,015 gallons**



Las Sendas Elementary
HOME OF THE COYOTES



After

Total landscape area transformed: **5,409 sq. ft.**

**Future Shade
Canopy Size**

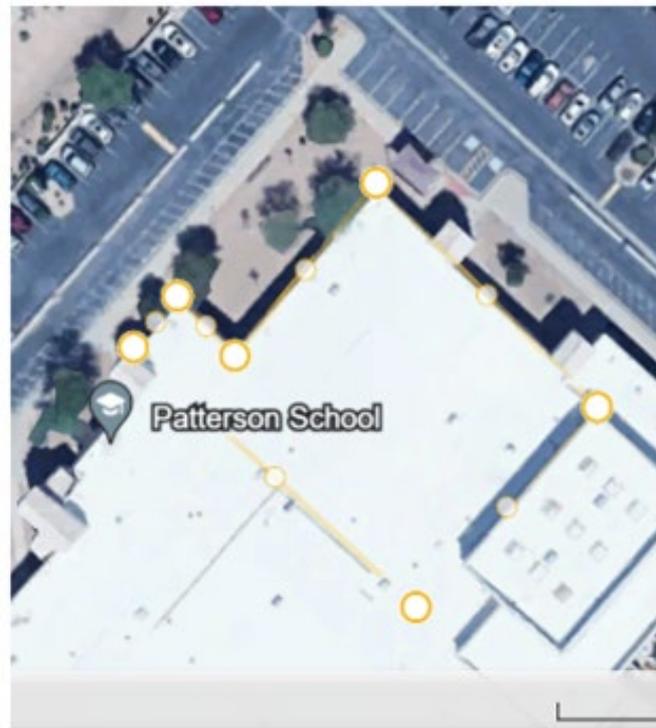
**2,098
Square Feet**



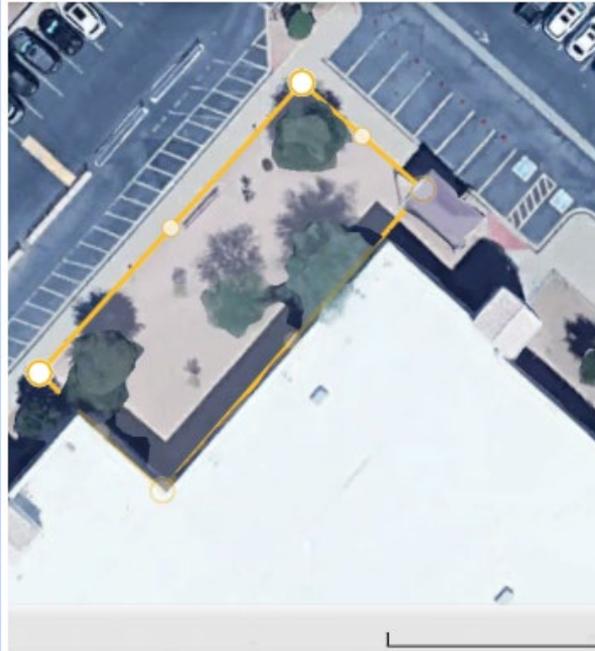
Las Sendas Elementary
HOME OF THE COYOTES

Calculating an Annual Water Budget

Total Collection Area (ft²) x annual rainfall amount (inches/12in) x 7.48 (ft³ to gallons conversion number) = annual water budget.



Rooftop collection area
 $1,689\text{m}^2 \times 10.764 = 18,180 \text{ sq ft}$



Landscape Collection Area
 $529\text{m}^2 \times 10.764 = 5,694 \text{ sq ft}$

Total collection area $5541 + 1735 = 7276$
 $23,874 \times .583 \times 7.48 = 104,111 \text{ gallons annually}$



*Students and community members construct **basins** to collect the water*

Impact

2,250

People engaged
in designing water
solutions

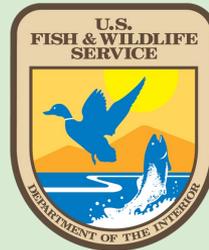
24,146

Square feet of
landscape
transformed

443,039

Gallons of
rainwater
harvested annually

Acknowledgments



ecoRise