Range Of Vegetation Preferences In Historic Goodyear

A Method For Evaluating The Success Of Demonstration Gardens

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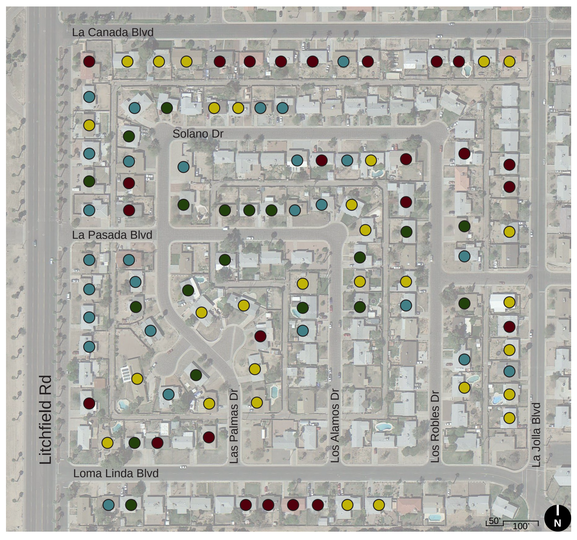
The City of Goodyear is planning a demonstration garden to exhibit water **efficient** landscaping techniques to residents; the goal being to reduce water consumption. This study determines the **range** of vegetation types within a neighborhood in Historic Goodyear, and looks at the vegetation **choices** being made, in terms of estimated water usage.

Evaluated Homes



Method

1] 100 residential front yards are photographed.

2] All plant species within each yard are identified.

3] A **vegetation score** is given to each plant.

4] The average score for each yard is determined.

5] A total **yard score** is given.

Scoring Based on Estimated Water Consumption

Vegetation Score		Yard Score	
0 | Very Low 1 | Low 2 | Moderate 3 | High	The vegetation score is a number assigned to each plant species present in a front yard. This number is based on the plants' typical water consumption.	0.00-1.00 | Low 1.01-2.00 | Moderate 2.01-3.00 | High	The yard score is the average created from the compilation of the vegetation scores. Each home receives a yard score which represents the type of vegetation residents are planting.

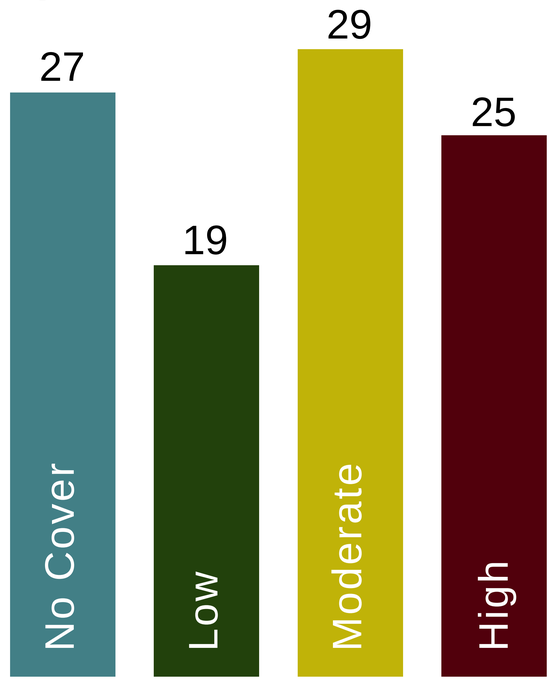
Vegetation	Score
Granite	0
Yard Score	**0**

Vegetation	Score
Granite	0
Trachycarpus fortunei	3
Nerium oleander	2
Pinus canariensis	1
Rhus lancea	1
Fouquieria splendens	0
Aloe x 'Blue Elf'	0
Ferocactus wislizenii	0
Pachycereus marginatus	0
Yard Score	**0.78**

Vegetation	Score
Granite	0
Dalbergia sissoo	2
Dalbergia sissoo	2
Lantana montevidensis	2
Lantana montevidensis	2
Lantana montevidensis	2
Nerium oleander	2
Nerium oleander	2
Nerium oleander	2
Nerium oleander	2
Nerium oleander	2
Nerium oleander	2
Nerium oleander	2
Nerium oleander	2
Yard Score	**1.86**

Vegetation	Score
Turf	3
Prunus cerasifera	3
Rosa	3
Rosa	3
Rosa	3
Citrus aurantium	2
Tecoma capensis	2
Tradescantia pallida	2
Aspidistra elatior	2
Yard Score	**2.56**

Most yards in this neighborhood display **moderate** water usage vegetation.



This neighborhood can be reevaluated, at periodic intervals, once the demonstration park is constructed. These future studies will determine the **impact** that this demonstration park has on residents' **behavior**. In addition, this can be used as a model to **evaluate** the success of future demonstration parks.

Acknowledgment

Mark Holmes | Sandra Rode [City of Goodyear]
Ted Cook | Kristian Kelley [Faculty Mentors]

This material is based upon work supported by the National Science Foundation under Grant No. SES-0951366 Decision Center for a Desert City II: Urban Climate Adaptation (DCDC). Any opinions, findings and conclusions or recommendation expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation (NSF).