# **Urban Landscape Trees: Spatial Patterns of Water Use**

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### Goals

- Characterize the patterns of landscape tree diversity, density, and size in Heber Valley, a developing urban area, according to neighborhood type
- Relate species-specific tree water-use data to neighborhood planting patterns

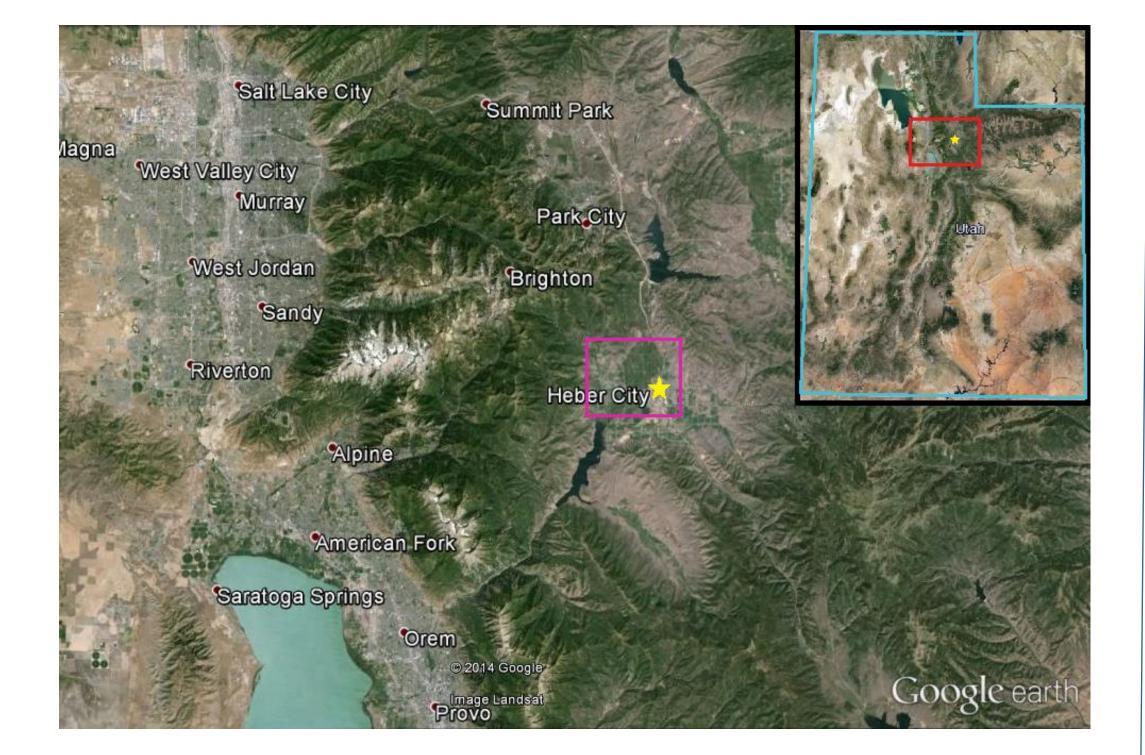


Figure 1. Location of Heber Valley, UT



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# Methods

- Create a stratified, georeferenced survey of landscape trees in four dominant neighborhood types in Heber City and Midway
- Collect species and size data using accepted forestry techniques for each tree in randomly selected lots

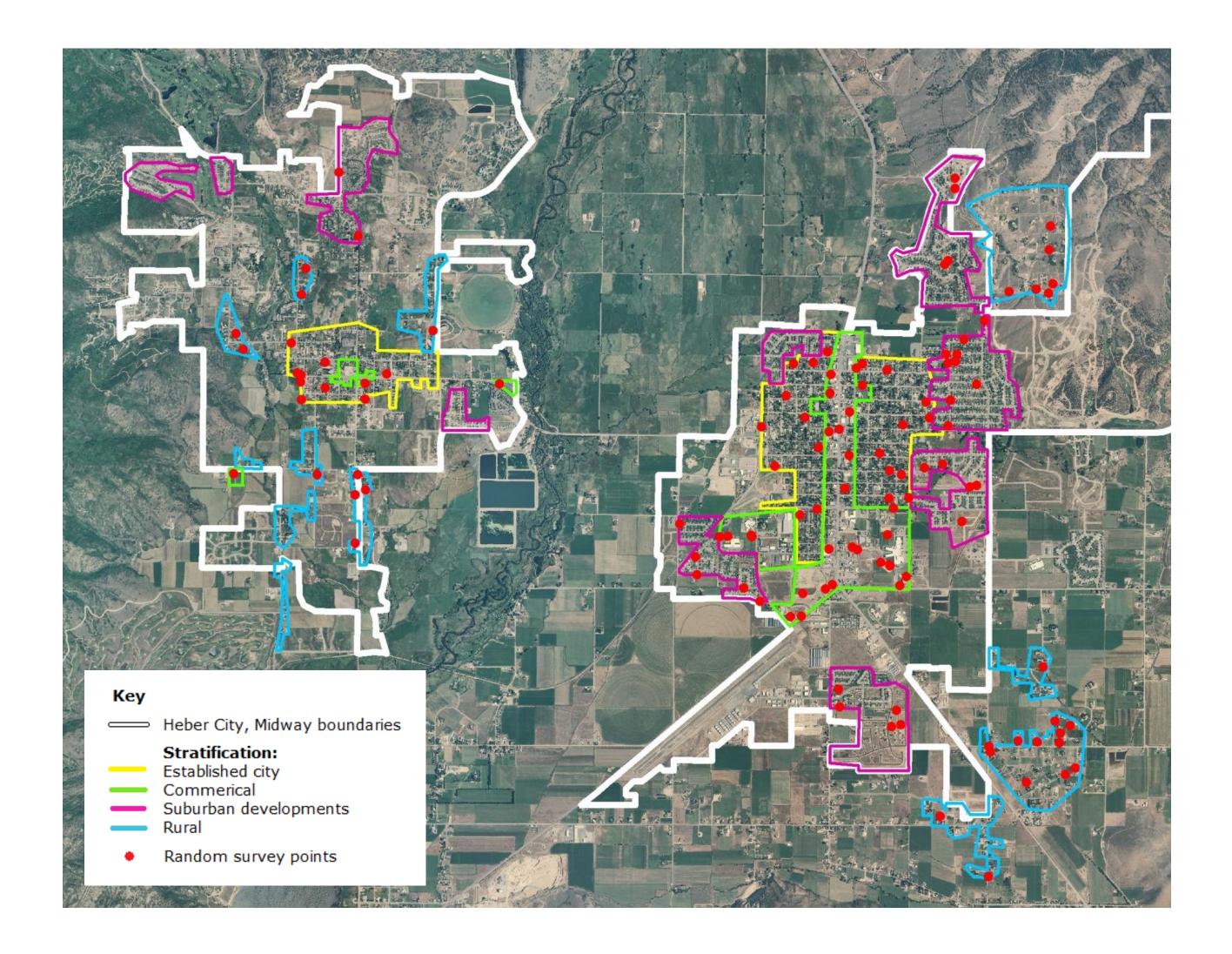


Figure 2. Map of stratified survey design in Heber City and Midway





## Impact

- Landscape trees are an important factor in urban water use, especially where water conservation is an objective.
- Species diversity and size, and consequently water use, are expected to vary by neighborhood type - planting patterns may have significant implications for water use in a developing area



Figure 3. A row of trees in a commercial lot







