

ABQ Streets: Creating Alternative Residential Street Designs Dataset

Dataset available at: <https://doi.org/10.5281/zenodo.4270653>

(This dataset supports report **ABQ Streets Project: Creating Alternative Residential Street Designs**)

This U.S. Department of Transportation-funded dataset is preserved in the Zenodo Repository (<https://zenodo.org/>), and is available at <https://doi.org/10.5281/zenodo.4270653>

The related final report **ABQ Streets Project: Creating Alternative Residential Street Designs**, is available from the National Transportation Library's Digital Repository at <https://rosap.ntl.bts.gov/view/dot/58867>.

Metadata from the Zenodo Repository record:

Title: ABQ Streets: Creating Alternative Residential Street Designs

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Description: This research evaluates opportunities for retrofitting residential streets with alterative designs with the overall goal of improving their function, reducing their negative impacts, and reducing maintenance costs. This is accomplished through three main research tasks. First, we conduct a comprehensive review of the street design literature with a focus on studies that report how alterative or unique designs that are relevant to the residential street context affect travel behavior, traffic flow, safety, crime and environmental impacts. We then survey residential streets in several study neighborhoods to measure typical design features and cross sections. With this information we then evaluate which alterative street designs could be used to retrofit typical Albuquerque residential streets within currently used right of way. For this subset of alternatives, we estimate the expected benefits and construction and maintenance costs using information from our literature review and the city's unit construction cost data. Findings suggest that street lighting may provide significant benefits in terms of both traffic safety and crime reduction, while design alternatives using curb can realize considerable traffic safety benefits while keeping annual costs low. The complex woonerf design that combined multiple alternatives had the highest benefit-to-cost ratio. Pavement treatments including permeable asphalt and white asphalt sealant had costs that outweighed direct environmental benefits.

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Dataset description:

This dataset contains 1 file described below.

19PPUNM01_Data.xlsx:

The .xlsx file type is a Microsoft Excel file, which can be opened with Excel, and other free available software, such as OpenRefine.

National Transportation Library (NTL) Curation Note:

As this dataset is preserved in a repository outside U.S. DOT control, as allowed by the U.S. DOT's Public Access Plan (<https://ntl.bts.gov/public-access>) Section 7.4.2 Data, the NTL staff has performed *NO* additional curation actions on this dataset. NTL staff last accessed this dataset at <https://doi.org/10.5281/zenodo.4270653> on 2022-01-12. If, in the future, you have trouble accessing this dataset at the host repository, please email NTLDataCurator@dot.gov describing your problem. NTL staff will do its best to assist you at that time.