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Data Services

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Southwest Center on Resilience for Climate Change and Health (SCORCH)

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DATA MANAGEMENT AND SHARING PLAN

Element 1: Data Type:

A. Types and amount of scientific data expected to be generated in the project:

This project will involve secondary data analysis utilizing land cover data and emergency department visits, hospitalization, and causes of death data sourced from the U.S. Geological Survey and Arizona Department of Health Services. A comprehensive greenspace morphology database for Phenix and Tucson City is expected to be generated.

B. Scientific data that will be preserved and shared and the rationale for doing so:

The analysis will result in the creation of novel spatial morphology measurements of greenspace. The resulting greenspace morphology dataset, generated as part of this study, will be made accessible for further research endeavors.

The health-related data will be preserved for future research but will not be shared.

C. Metadata, other relevant data, and associated documentation:

A codebook for each variable, including a brief description of each item, variable name, value labels, and standardized codes for missing values, including those indicating non-applicability. All documentation will be presented in a portable document format (PDF) for ease of access and utilization.

Element 2: Related Tools, Software, and/or Code:

Scientific data will be processed and analyzed with R, and shared in many widely accessible formats, including SAS, STATA, SPSS, dBase, Excel, and ASCII.

Element 3: Standards:

To facilitate data use, the study will use standard processing and documentation protocols adopted by Digitalcommons@USU for data formats and dictionaries as well as for variable names, descriptions, and labels. This is a trusted digital repository for the long-term preservation of digital objects and is the responsibility of Utah State University.

Each dataset deposited in Digitalcommons@USU will be accompanied by required metadata fields, including investigator name(s), measurement method and instrumentation, measurement precision and accuracy estimates, etc. Digitalcommons@USU will be responsible for reviewing all metadata for consistency and adherence to the repository's metadata standards.

For the restricted data, we will follow the same level of standards from Digitalcommons@USU but store the data in a password-protected Box system to better control accessibility. And follow the data handling requirements for protected data as required by the University.

Element 4: Data Preservation, Access, and Associated Timelines:

A. Repository where scientific data and metadata will be archived:

Access to greenspace-related data and associated documentation will be made available to the research community free of charge through Digitalcommons@USU and the Box enclave data system.

B. How scientific data will be findable and identifiable:

Datasets will be findable and identifiable through a study digital identifier. Links to sub-study datasets will be included in the publication.

C. When and how long the scientific data will be made available:

The data will be made available through Digitalcommons@USU and Box enclave following the standard review and release protocols. The data will be made available as soon as possible.

Element 5: Access, Distribution, or Reuse Considerations:

A. Factors affecting subsequent access, distribution, or reuse of scientific data:

For greenspace morphology data, external software may be required to view some datasets through Ditigalcommons@USU.

B. Whether access to scientific data will be controlled:

All de-identified study data, that are not designated as restricted use will be made available as public use data to the research community via Ditigalcommons@USU that anyone could access.

C. Protections for privacy, rights, and confidentiality of human research participants:

The study proposes to use only data that has already been de-identified. Shared data generated from this project will report only greenspace morphology metrics data with corresponding census tract ID or zip code number, which is aggregate information that can no longer be linked back to any individual's personal information.

Element 6: Oversight of Data Management and Sharing:

Monitoring and compliance with this Data Management and Sharing Plan will be the responsibility of the project's Principal Investigator. The plan will be implemented and managed by professional staff working under the direction of the PI.