Abstract

Spatial Analysis of Line Distance Sampling Data
Track: Environment Solutions
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The desert tortoise is designated as a 'threatened' species, prompting research into tortoise habitat, population densities and threats. Line Distance Sampling (LDS) provides critical information for planning the continued viability of the tortoise. Incorporating data from LDS in a GIS will extend accessibility and analysis capabilities for research of tortoise habitat. Spatial analysis and inclusion of geomorphologic and land cover data will aid in the understanding, access, and communication of habitat conservation activities, and associated decision-making processes. By establishing a consistent methodology and automating many of the processing steps, future iterations of the project will produce a consistent, cost-effective database.

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