

Wastewater Infrastructure Data Gap: An Inventory of OWTS Data at State and Local Scales

Mallory A. Jordan*, Mark O. Barnett, and Stephanie R. Rogers | Auburn University
 *maj0062@auburn.edu

30% of the contiguous U.S. has land parcel scale OWTS data

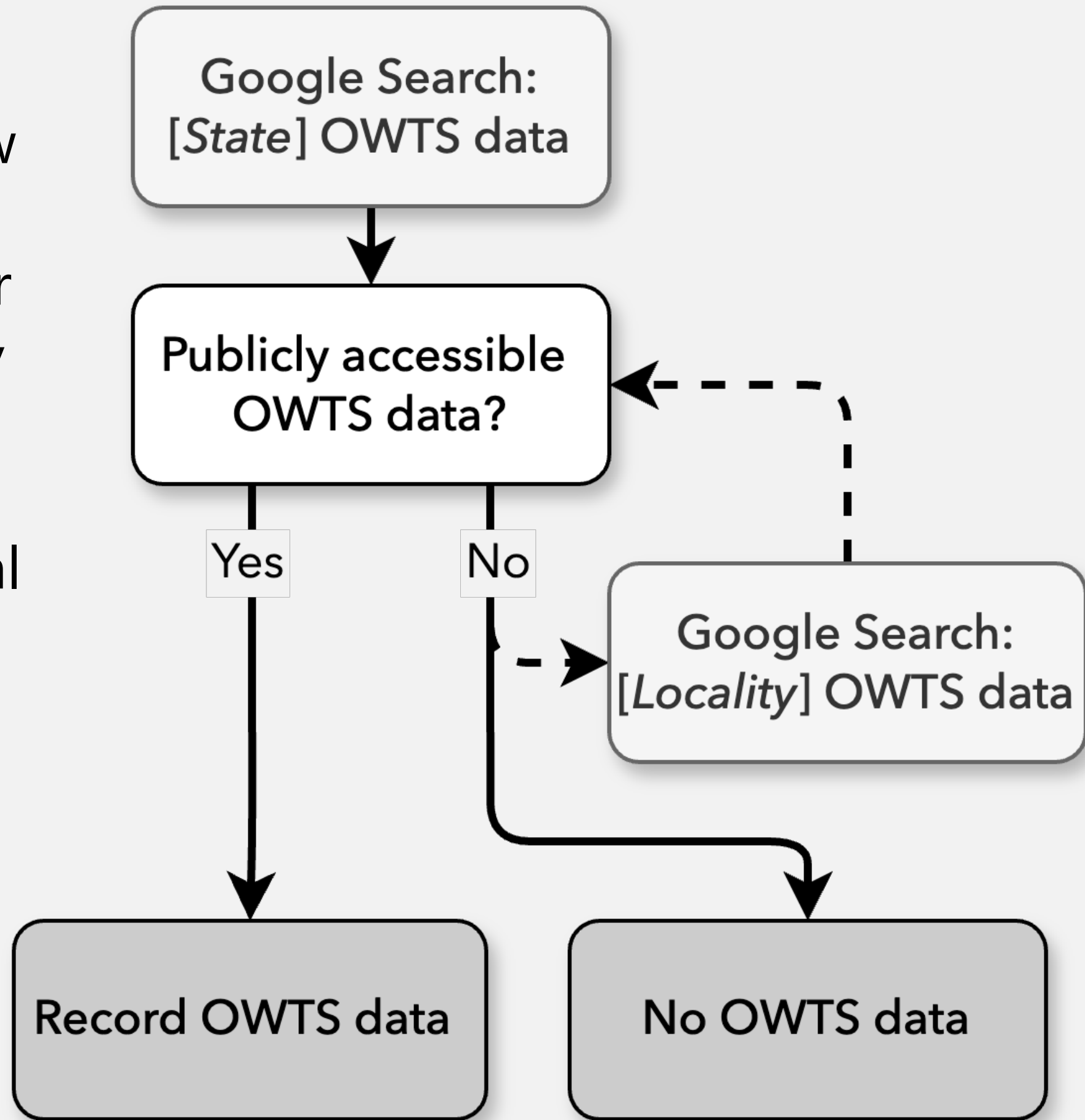
Background

- Onsite wastewater treatment system (OWTS) data are critical for identifying and addressing wastewater infrastructure gaps
- OWTS data are limited and can be difficult to acquire
- There is no inventory of OWTS data at state or local scales in the United States

Objective: Create an inventory of OWTS data to inform the development of a national OWTS data repository

Methods

Figure 1. Search workflow for OWTS data at the state and local (county or township) scales. Publicly available OWTS data are OWTS permits, land parcel utility data, or local counts of the number of systems that can be accessed without a submitting a record request, Freedom of Information Act (FOIA) request, or payment.



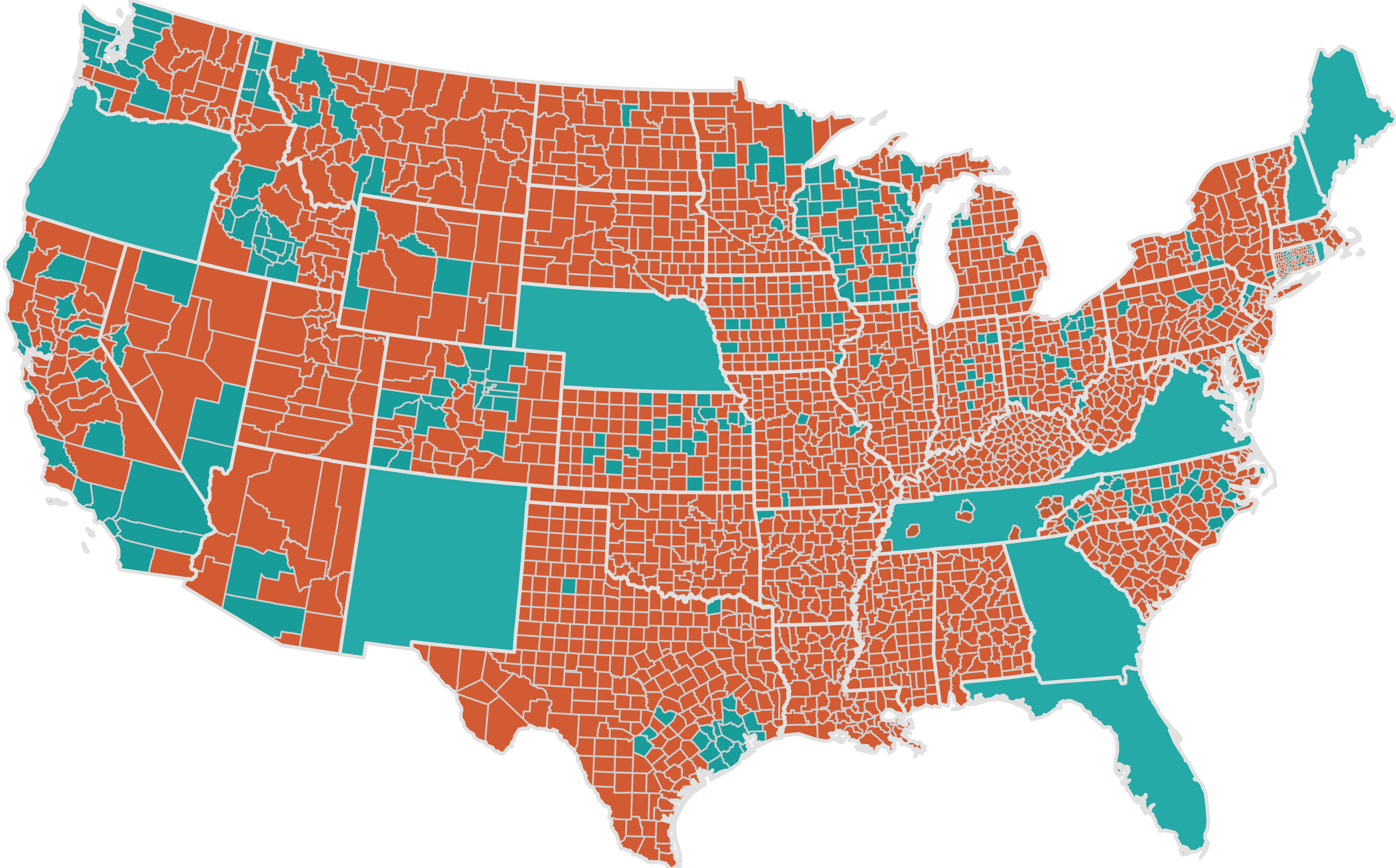
Key Results

16 states have *statewide* OWTS data, and

13 states' data are at the *land parcel scale*, and

7 states' data are in a *spatial format*

OWTS data formats vary Not all OWTS data can be easily downloaded



← Explore the data: Interactive webmap

Publicly Available Land Parcel Scale OWTS Data
 No Yes



Acknowledgements. This work was partially funded by Auburn University Presidential Graduate Research Fellowship and the USDA (TAT-RWTS 00-69526). This material is based upon work supported by the National Science Foundation (NSF) (NSF Grant #1922687). Any opinions, findings, and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the NSF. The materials being presented represent their own opinions, and do NOT reflect the opinions of NOWRA.

aub.ie/owtsdata