U.S. EPA, Office Of Research and Development, Research Triangle Park, NC







## Background

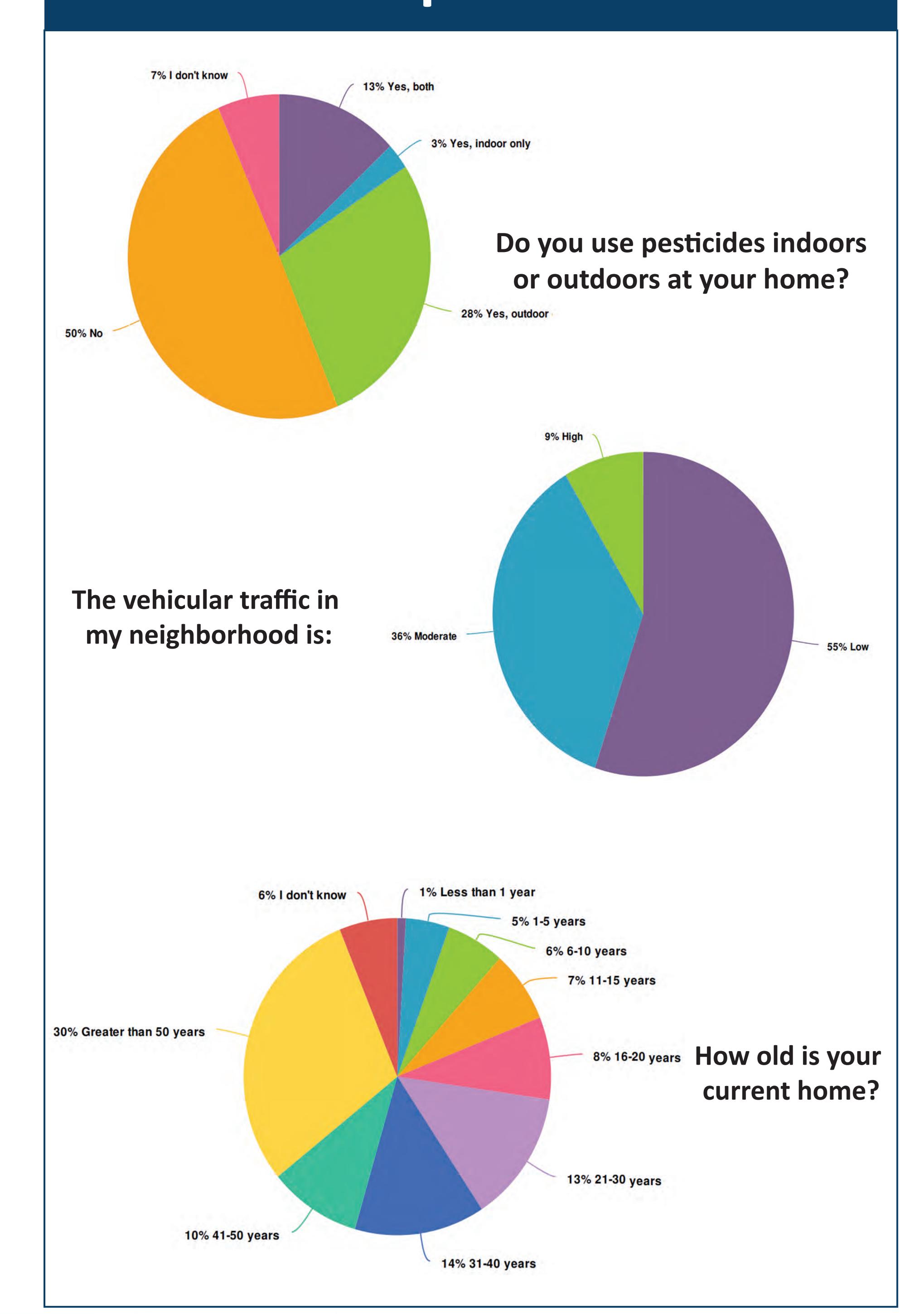
Over 55% of U.S. households own a pet dog or cat. Not only can these animals directly benefit their owners' health and well-being, but because they often share their owners' living spaces and have accelerated life spans, pets can also be important indicators of human exposure to chemicals and their potential health linkages.

The main objectives of this crowd sourcing project are:

- 1) to assess trends in pet diseases and health issues in and around residential settings and
- 2) identify spatial patterns or "hot spots" across the U.S.

The collected pet health data will be put into EnviroAtlas, a publicly available web mapping application, where citizen scientists will be able to view pet health information by specified areas, such as zip codes or states, in order to learn about emerging pet health issues in those geographic areas, and any correspondence with human health issues.

# Residential Exposures



### Become a citizen scientist, take the National Pet Health Survey!



Join us in a research effort to identify trends in pet health across the U.S.



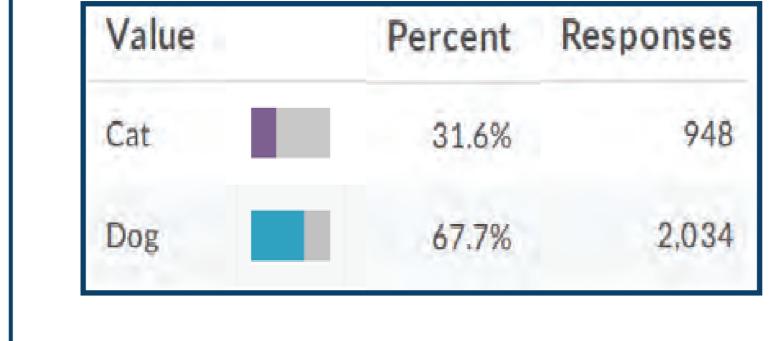
www.epa.gov/enviroatlas/national-pet-health-survey

7% 9

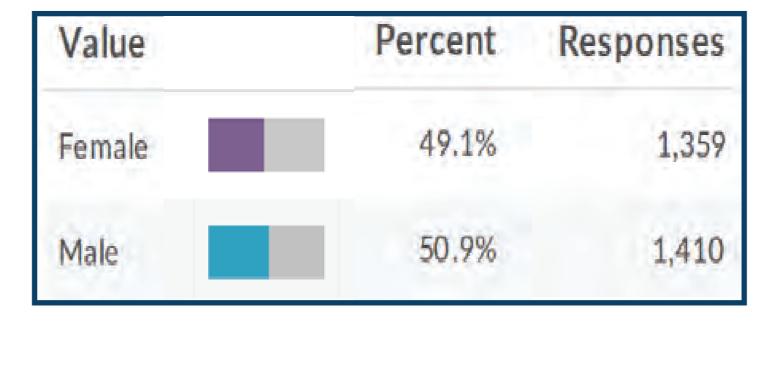
7% 8

### Pet Demographics

#### **Cats versus Dogs**



### Male versus Female



### 4% > 15 3% 14 7% 2 4% 13 6% 12 8%3 7% 11 7% 4 7% 10

Young versus Old (Age)

3% < 1

7% 5

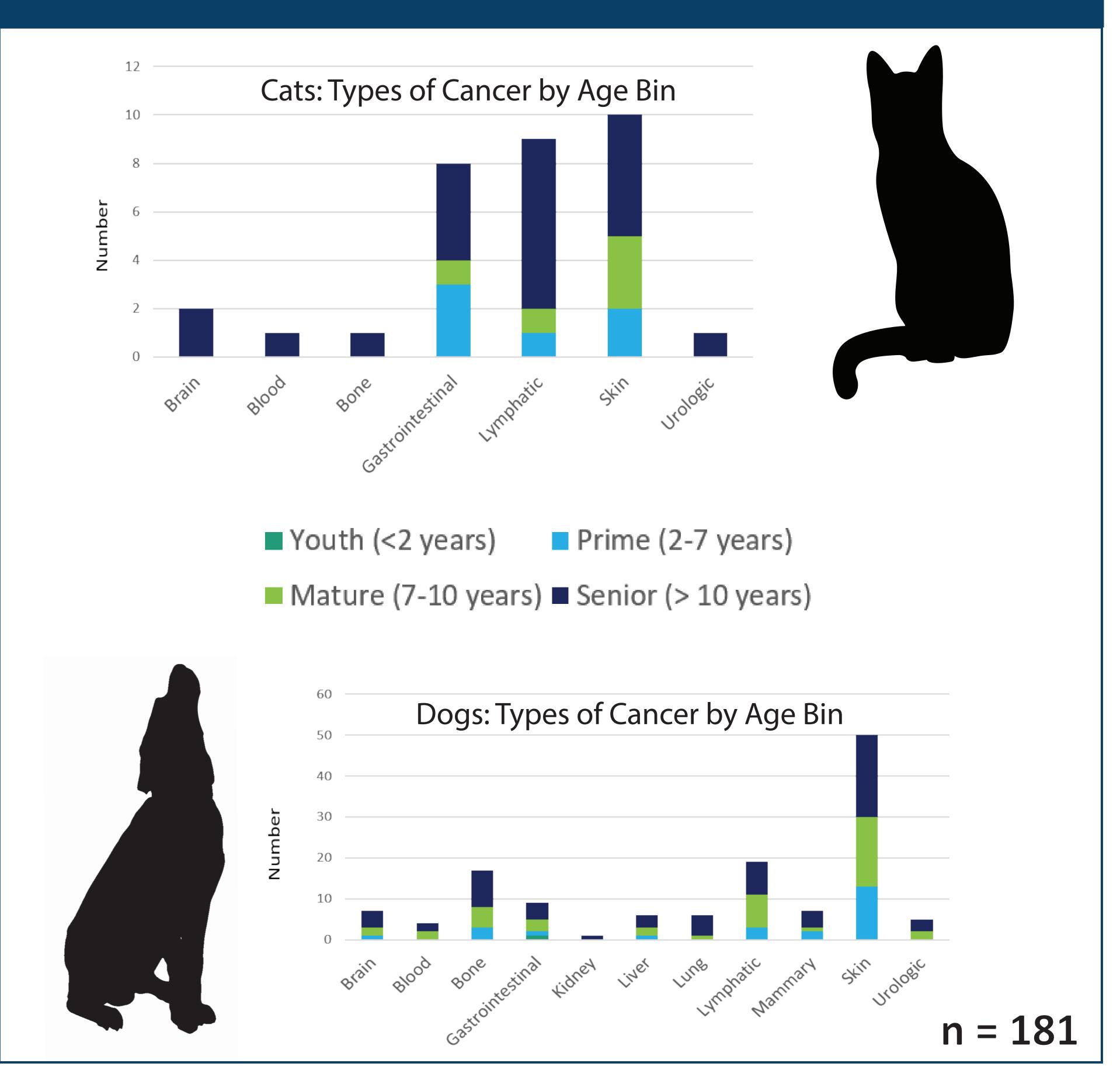
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### Summary

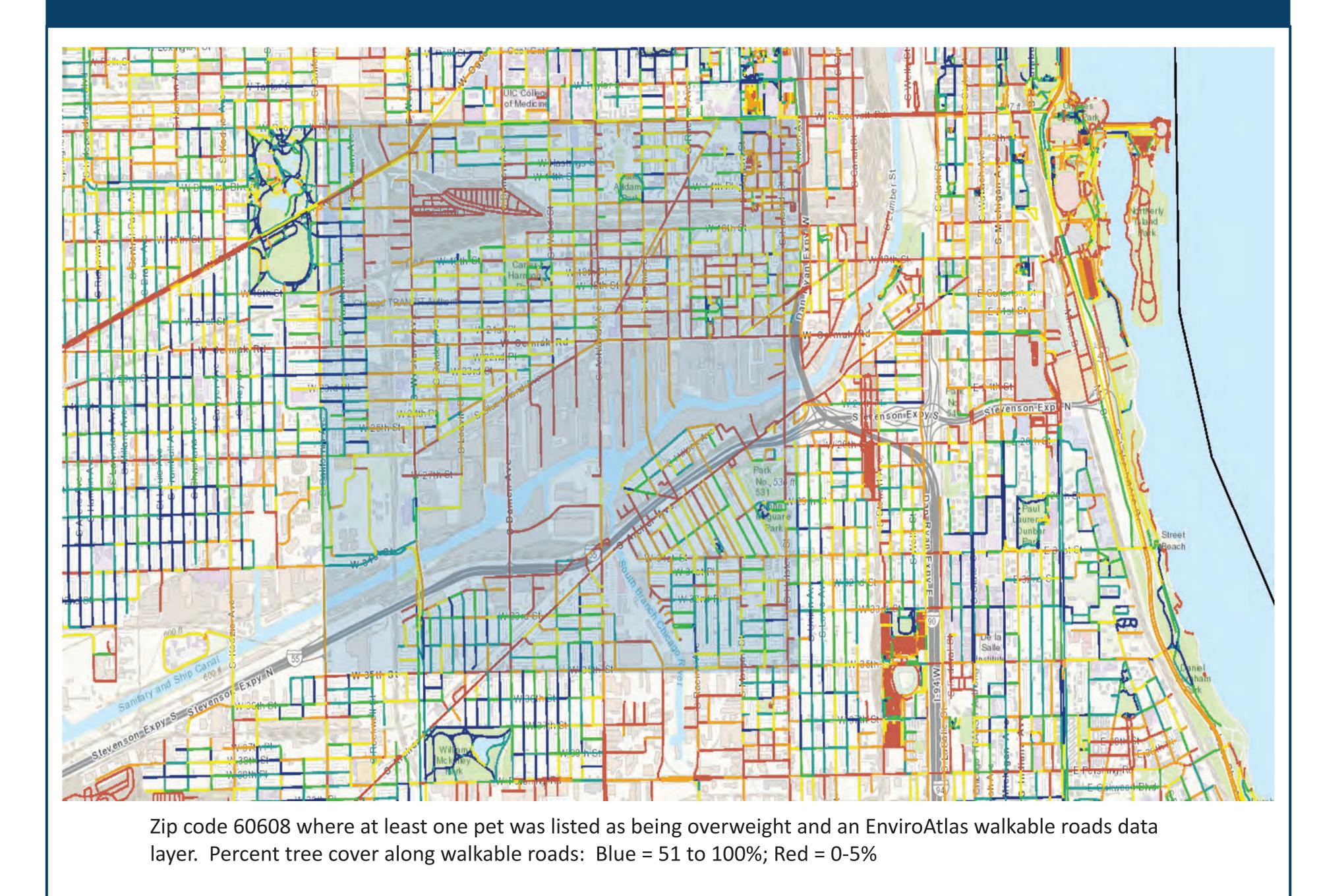
- Almost 3000 surveys completed
- Two-thirds of surveys have been for dogs
- A large variety of breeds
- Equal percent by gender
- Half the cats and 70% of dogs lived with at least one other pet in the home.



# Cancer Types by Age



### Community Environment



**Summary** At present, there are roughly 400 ecosystem service data layers available in the EnviroAtlas mapping application that could be usedto investigate the relationships between pet health, human health, and the environment. For example, lack of access to well shaded roads and sidewalks for exercise may exacerbate the issue of increasing weight in both people and their pets. Using data from the Pet Health Survey, researchers can corroborate human health trends with pet health trends in the same locations.

### Acknowledgements

The National Pet Health Survey was conducted under the auspices of the EnviroAtlas project as part of the Citizen Science Information Collection Request. It is a collaborative project developed by EPA, in cooperation with government, academic, and non-governmental organizations. In particular we would like to acknowledge Dr. Cheryl Stroud the Director of the One Health Commission for all her support of this research.