# The Phoenix Area Social Survey (PASS): New Possibilities for LTER Cross-Disciplinary Research in the Social and Ecological Sciences

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#### The PASS Research Team

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## **PASS** Questionnaire Topics

The survey content is aligned with CAP I TER's Integrated Project Areas listed below. The survey will measure people's perceptions of risk, attitudes, values, knowledge, and behaviors on each of these topics, thereby lending crucial insights about the preferences and actions of people that affect the environment as well as the impact of the socio-physical environment on the quality of human life in the Phoenix metropolitan area

#### Water Supply, Quality, and Conservation

Do you strongly agree somewhat agree somewhat disagree or strongly disagree with these statements about water use in and around your home

Household conservation does not make a difference for regional water availability

In the last year, I have sought or read information to help reduce my household water use

Using a lot of water at my home threatens the region's water supplies.



#### Air Quality and Transportation

Are you very concerned, somewhat concerned, slightly concerned, or not at all concerned about air pollution in the Valley

What about air pollution in your neighborhood?

Arizona State University

CAP LTER study region.

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usehold Surveys

U.S. Census

Air Temperature &

Moisture

o o i Iuman Evolution & Social Change

Phoenix Area Social Survey (PASS) 2006 and Beyond PASS is an interdisciplinary collaboration between researchers affiliated with the Central Arizona -Phoenix LTER (CAP LTER) and the Decision Center for a Desert City at Arizona State University. We

use social surveys of individuals in selected neighborhoods as methodology to explain the choices and

actions of households and communities that influence the biophysical environment and the feedbacks of

the environment to the quality of human life. After a successful pilot study in 2001-2002, data gathering

benchmark for planned long-term social monitoring that will complement ecological monitoring in the

PASS creates opportunities for the incorporation of other methodological approaches from the social sciences, such as ethnographic studies, historical demographic analyses, cultural analyses, spatial

analyses, and vulnerability assessments, into urban ecology. Social surveys at multiple LTER sites could serve as one basis for comparison and synthesis of socioecological changes across the LTER

network that result from population growth, residential mobility, and socioeconomic inequalities

PASS 2006 Neighborhoods

PASS 2006 targets 800 respondents from 40 neighborhoods located within CAP LTER's broader

Survey 200 study sites. Criteria for selecting PASS neighborhoods was based on location-core,

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PASS is the foundation for broadly interdisciplinary collaborative projects that will combine survey data with

biophysical and other geo-referenced data streams in order to help us understand the socio-ecological

neighborhoods are remotely sensed images of vegetation and surface temperature, air quality, land cover

Land Use

Water Consumption

PASS

Housing Quality

Remotely Sensed Surface

Temperature & Vegetation

systems of an arid rapidly urbanizing region. Examples of other CAP LTER data linked to PASS

classifications, environmental toxins, and bird surveys

fringe, suburban-as well as median household income, ethnic composition, and age.

for a much larger survey of 800 households in 40 neighborhoods is nearly completed. PASS 2006 is the

GLOBAL INSTITUTE

**SUSTAINABILITY** 

ABIZONA STATE UNIVERSITY

How do you usually get to work? Car, truck, van, bus, taxi cab, motorcycle, bicycle walk work at home



## **Climate Change and Urban Heat Island**

Do you think the Valley is or is not getting hotter over

### Land Use, Preservation, and Growth Management

Suppose you were offered a choice between two homes that are the same price but they differ in some other ways. Which home would you buy?

A small home with a 20 minute drive to work OR a large home with a 1 hour drive to work?

A home in a neighborhood that is a short walk to public transportation OR a home in a neighborhood that is a short drive to a freeway entrance?







Funding for these research projects is provided by the National Science Foundation. The Phoenix Area Social Survey is a joint project of CAP LTER and DCDC.



#### This poster reflects data collected from 710 completed surveys as of 9/13/06

#### Description of Respondents

Gender: 56.8 percent of respondents were female, 42.1 percent were male

Ethnicity: 73 percent White, 20 percent Hispanic, 7 percent Other

Median are: 8 percent of respondents <25 years old 18 2 percent 26-35, 17 6 percent 36-45, 21.5 percent 46-55, 16.4 percent 56-65, 18.3 percent >65

Median Household Income: 35.4 percent of households earn <\$40k, 27.9 percent between \$40k and \$80k 36.8 percent >\$80k

Education Level: 24.7 percent of respondents high school graduates, 16.9 percent some college, 44.1 percent college graduates

Median Years Lived in Valley: 20 years

Home Ownership: 75.4 percent of respondents own their current residence. 73.8 percent of respondents live in a single family detached home and 15.4 percent live in an apartment

Maricopa County Population (2004): 3,501,001

Arizona Population (2004): 5,743,834

encompasses an area of 1803 sq mi in central

- 60% of respondents are very concerned about

the amount of water used by people in the Valley

- 35% think air quality in the Valley is getting

- 35% think the climate is getting much hotter

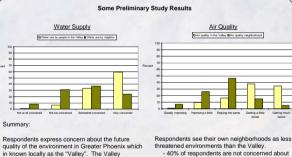
Climate Change

Summary

Arizona

much worse

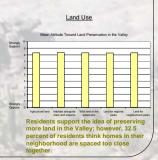
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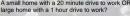


- 40% of respondents are not concerned about the amount of water their neighbors use

- 33% think that the air quality in their neighborhood is improving

- 24% think their neighborhood is cooler than others







temperature, a little warmer, or much warmer) than most other neighborhoods in the Valley?