

OPEN JOURNAL  
SYSTEMS

JOURNAL HELP

USER

Username

Password

Remember me

JOURNAL CONTENT

Search

All

Search

Browse

- By Issue
- By Author
- By Title

FONT SIZE

INFORMATION

- For Readers
- For Authors
- For Librarians

ARTICLE TOOLS



Print  
this  
article



Indexing  
metadata



How  
to cite  
item



Email  
this  
article  
(Login  
required)



Email  
the  
author  
(Login  
required)

RELATED ITEMS



Author's work

Related studies

Book reviews

Pay-per-view

Surveys

Soc sci data

Social theories

Book searches

Databases

Relevant portals

Online forums

Legal materials

Government policy

Media reports

Web search



# Show all

## NOTIFICATIONS

- View
- Subscribe

[Home](#) > [Vol 6, No 1 \(2013\)](#) > [Lovejoy](#)

Measuring the impacts of local land-use policies on vehicle miles of travel: The case of the first big-box store in Davis, California

*Kristin Lovejoy, Gian-Claudia Sciara, Deborah Salon, Susan L Handy, Patricia Mokhtarian*

### Abstract

Concerns over climate change have brought new impetus to the goal of reducing vehicle travel through land-use policy. To determine the degree to which land-use policies are effective in reducing vehicle travel, studies are needed that measure and compare vehicle travel both before and after a land-use policy

change. The opening of the first big-box retail store in Davis, California, represented a major change in the retail landscape and an unusual opportunity to study its effect on shopping travel. Surveys of residents' shopping behavior conducted before and after the opening of the store revealed a significant shift in where people shopped and a measurable reduction in overall vehicle miles traveled (VMT) for shopping. Although the observed change in VMT is specific to the Davis context, the findings support the general proposition that bringing retail destinations closer to residences could help reduce vehicle travel, particularly where the comparable alternatives for the newly introduced store are far away. The study also offers important insights into the challenges of conducting before-and-after studies of the impact of local land-use changes.

#### Keywords

travel behavior, vehicle-miles traveled, retail travel

Full Text:

**PDF**

DOI: <http://dx.doi.org/10.5198/jtlu.v6i1.336>

The Journal is housed at the University of Minnesota and sponsored by the Center for Transportation Studies

Contact JTLU | ISSN: 1938-7849

All contents licensed under [Creative Commons by-nc 3.0](https://creativecommons.org/licenses/by-nc/3.0/). © 2007-2014 Journal of Transport and Land Use

The Journal of Transport and Land Use is indexed in [DOAJ](https://www.doaj.org/), [Google Scholar](https://scholar.google.com/), and [Scopus](https://scopus.com/).