



Who Follows Traffic Rules, Anyway? A Comprehensive Assessment of the UCSD Bicycle and Skateboard Policies

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Background

- UCSD is a large urban university with nearly 60,000 students, faculty, and staff
- Several heavily-used sidewalks and pathways where pedestrian traffic intersects with bicycle, skateboard, and motorized cart traffic
- To reduce the risk of injuries, UCSD has developed policies on vehicle use and posted campus signage, and UCSD police administer fines for infractions

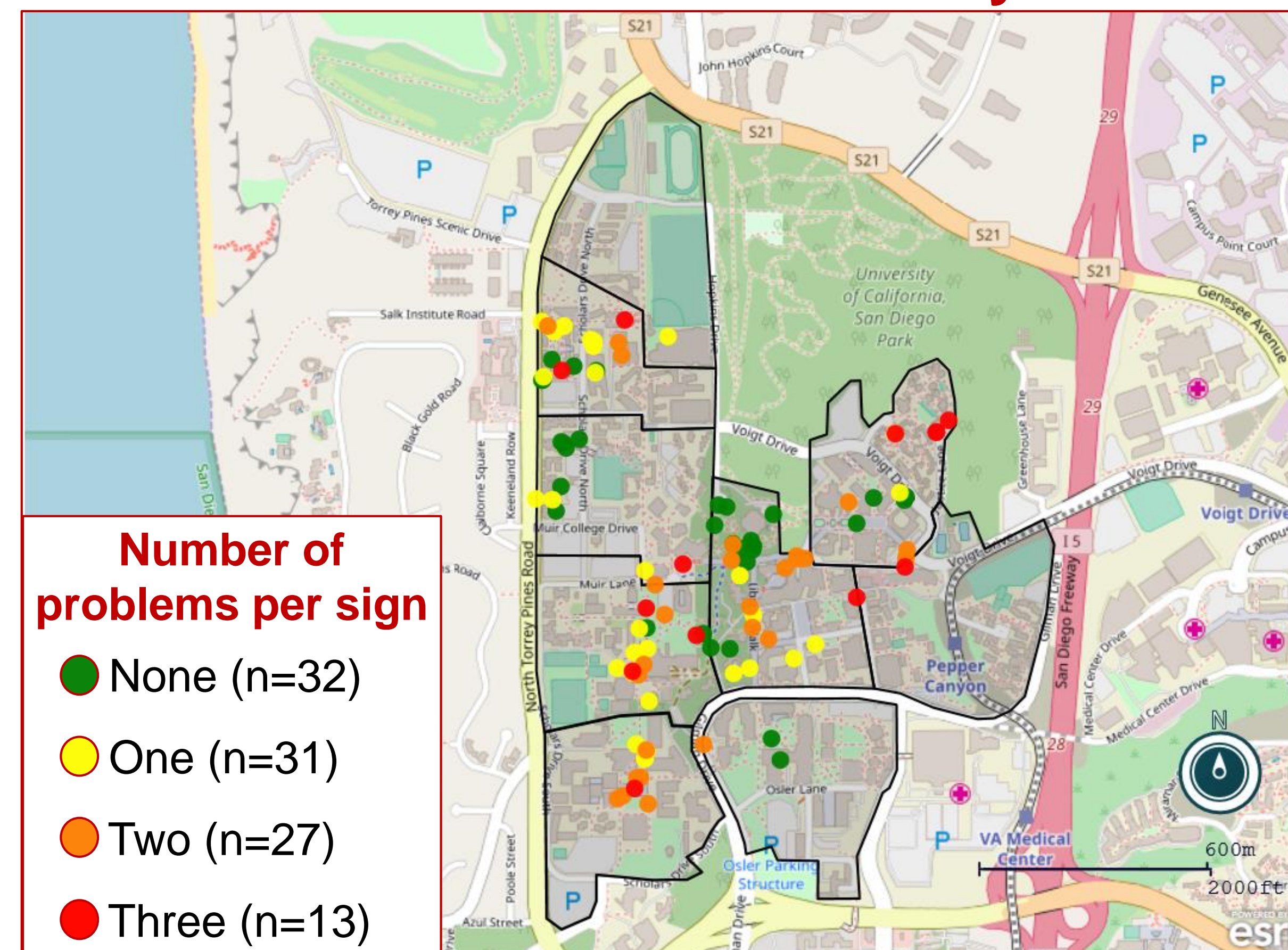
Objectives

- To evaluate:
- Distribution and condition of signage
 - Adherence to UCSD policies
 - Frequency of written warnings and fines

Methods

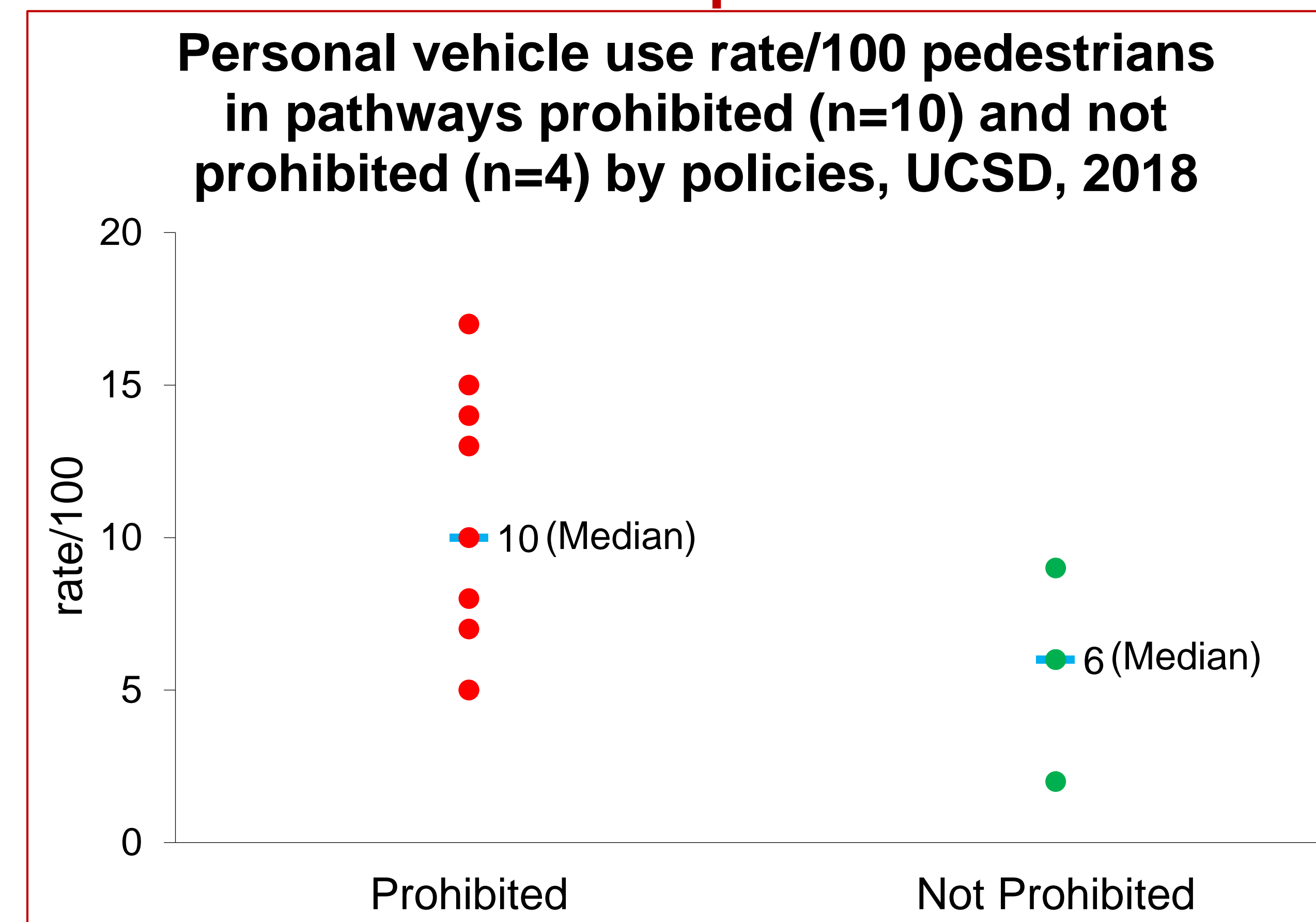
- Comprehensive inventory of signage in nine areas: the six colleges, University Center, the medical school, and North campus during January 2018
 - Locations geo-mapped
 - Signs photographed and classified as intact, weathered, unreadable, and/or having graffiti
 - Acreage for density calculations obtained from UCSD campus map
- 15-minute video recordings conducted in fourteen pathways from February to April 2018
 - Counted pedestrians and personal vehicle riders (e.g. bicycle, skateboard, scooter)
- Infraction data provided by campus police
- Data entry and analysis performed using Epi Info and R

Where are the signs on campus and what condition are they in?



Results

Does the UCSD population adhere to policies?



How many warnings and fines are being issued?

Enforcement of bicycle and skateboard policies, UCSD, 2017		
Method	n	% of total
Verbal Warning		
Bicycle	281	75%
Skateboard	28	7%
Written Warning		
Bicycle	15	4%
Skateboard	2	1%
Citation (fine)		
Bicycle	50	13%
Skateboard	1	1%
TOTAL	377	100%

Problems among the 71/103 (69%) damaged signs



Pathways

Pathways	# vehicles	# pedestrians	rate/100
Prohibited			
Revelle Plaza	229	1330	17
Ridge Walk 1	147	996	15
Ridge Walk 2	113	804	14
Ridge Walk 3	138	1028	13
Library to Marshall	134	1315	10
Warren Mall to PC	141	1398	10
Warren Mall	153	1814	8
Career Services	155	2209	7
Library Walk 1	120	2517	5
Library Walk 2	159	3471	5
Not Prohibited			
Side of Center Hall	87	953	9
Side of Bookstore	73	1126	6
Town Square 1	27	455	6
Town Square 2	17	893	2
TOTAL	1693	20309	8

Conclusions

- Bicycle and skateboard signage is neither equally distributed nor adequately maintained
- Citations and fines are rarely issued
- Pathways that prohibit personal vehicles have a higher ratio of vehicle to pedestrians than those where they are allowed
- Efforts are needed to augment and replace damaged signage, educate personal transport riders, and conduct additional enforcement



No Problems



Weathered



Graffiti



Unreadable