

UNC CAMPUS BICYCLING ENVIRONMENT

BECOMING A BICYCLE-FRIENDLY UNIVERSITY
ENST 698
SPRING 2011



UNC
INSTITUTE FOR
THE ENVIRONMENT

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Background

2

- ❑ Bicycling community on campus
- ❑ Benefits of bicycling
- ❑ Importance of examining University environment
 - ❑ Policies
 - ❑ Infrastructure
 - ❑ Public Opinion

Project Objectives

3

- ❑ Complete the LAB Bicycle-Friendly University application
- ❑ Investigate policies and peer institutions
- ❑ Survey the university population
- ❑ Compile a database/map of infrastructure
- ❑ Provide recommendations for the university

Policy Methods

4

- ❑ League of American Bicyclists (LAB) Bicycle-Friendly University application
- ❑ Evaluation of Peer Institutions document
- ❑ Recommendations for the University

LAB Application

Name of Applying Institution

* Name of institution/campus applying University of North Carolina at Chapel Hill

*How many campuses make up this institution? 1

*Does this application include all campuses? Yes

If no, which campuses are included in this application?

* City Chapel Hill

* State North Carolina

* President, Chancellor, or top official (include title) Chancellor Holden Thorp

* Website www.unc.edu

Applicant Profile

* Contact Name

* Title

* Address

* City

* State

* Zip

* Phone

* Email

Profile

The data in this section is gathered by the U.S. census. Click here to find the most recent information on your college/university.

1. Type of institution (link to US News definitions)

(Public/Private) option for each

National University

Liberal Arts College

Baccalaureate College (four year school with less than 50% of degrees in liberal arts)

Technical College

Community College

Career College

Other If other, describe

(50 word limit)

2. Type of Campus:

Urban (Small urban setting, town of approximately 50,000)

Suburban

Rural

Other If other, describe

(50 word limit)

3. Population

Infrastructure Methods

6

- ❑ Campus Inventory
 - ❑ Noted locations and types of bike racks, showers, lanes and the air pump.
- ❑ Visualization
 - ❑ Spatial analysis of bike amenities using ArcGIS
- ❑ LAB application

Infrastructure Findings

7

- ❑ Bike racks on campus:
 - ❑ 442 Racks
 - ❑ Total capacity 5170 Bikes
 - ❑ 100% of dorms/university apartments, libraries, administration and classroom buildings
 - ❑ 83% of recreation centers
 - ❑ 63% of parking garages
 - ❑ 60% of research labs
 - ❑ >1% of transit station bus stops
- ❑ Showers, bike pump, bike lane
 - ❑ Limited amenities

Bicycle Infrastructure Map

<http://www.gismaps.unc.edu/bike/>



Survey Analysis Group

9

Purpose: Assess the public opinion of cyclists, pedestrians motorists and Chapel Hill Transit users on the bicycling environment at UNC-Chapel Hill.



Survey Analysis Group

10

- ❑ Created a survey with the help of outside resources
- ❑ Surveyed in the Pit
- ❑ Piloted the survey with 20 people and collected 119 responses



This brief survey was designed by a UNC-Chapel Hill student team as a capstone project with the Institute for the Environment to assist in the completion of the League of American Bicyclist application. Your responses will help us develop a better assess the bicycling and walking environment on campus.

These surveys are anonymous and do not ask for persona identifying information. There is no personal benefit or harm to you.

For more information, contact: enstbicyclesurvey@gmail.com

Age: _____ Sex: M F Residence: Chapel Hill Carrboro Other

Classification:

- | | |
|---|---|
| <input type="checkbox"/> Student, full-time | <input type="checkbox"/> Staff, full-time |
| <input type="checkbox"/> Student, part-time | <input type="checkbox"/> Staff, part-time |
| <input type="checkbox"/> Faculty | <input type="checkbox"/> Staff, part-time |
| <input type="checkbox"/> Guest/visitor | |

1. By what mode do you typically travel to campus?

- | | |
|---------------------------------------|--|
| <input type="checkbox"/> Car or Truck | <input type="checkbox"/> Motorcycle or Scooter |
| <input type="checkbox"/> Bus | <input type="checkbox"/> Walk |
| <input type="checkbox"/> Bike | <input type="checkbox"/> Other |

2. How far is it from your home to your workplace or school?

- < 5 miles 5-10 miles > 10 miles I don't know

3. In a typical week, how many days do you commute to UNC? _____

4. What is your average time to get to work/school? (door to door) _____

5. What would encourage you to use an alternate form of transportation other than your car?

Please elaborate:

6. Do you use other forms of transportation, aside from cycling and/or walking to get to campus? If so, what?

- Yes No

7. If you are a cyclist, do you use the bike racks?

- Never Sometimes Often

Please elaborate:

8. Is your bicycle registered with the Department of Public Safety?

- Yes
 No

9. Do you have any request for the amount or location of bike racks?

- Yes
 No

Please elaborate:

10. How comfortable are you walking/cycling around campus, given the intermingling of cyclists and pedestrians?

- Not comfortable Relatively comfortable Comfortable

Please elaborate:

11. If you were to experience any problems with bike racks or air pumps, would you know how to report it?

- Yes
 No

Please elaborate:

12. Are you comfortable leaving your bike locked up on the bike racks on campus?

- Yes
 No

Please elaborate:

13. Are there any safety concerns that influence your walking/cycling?

- Yes
 No

Please elaborate:

14. How satisfied are you with the biking/walking facilities on the UNC campus?

- Not satisfied Relatively satisfied Satisfied

15. What issues do you encounter walking/cycling around campus?

Please elaborate:

16. What improvements would you like to see in the walking/cycling environment in the next five years?

Please elaborate:

17. What suggestions do you have for improving transportation to, from and on campus?

Please elaborate:

Findings

12

❑ Sex

- ❑ Male: 50
- ❑ Female: 69

❑ Residence

- ❑ Chapel Hill: 98
- ❑ Carrboro: 16
- ❑ Other: 6

❑ How far is it from your home to your workplace or school?

- ❑ < 5 miles: 108
- ❑ 5-10 miles: 4
- ❑ > 10 miles: 8

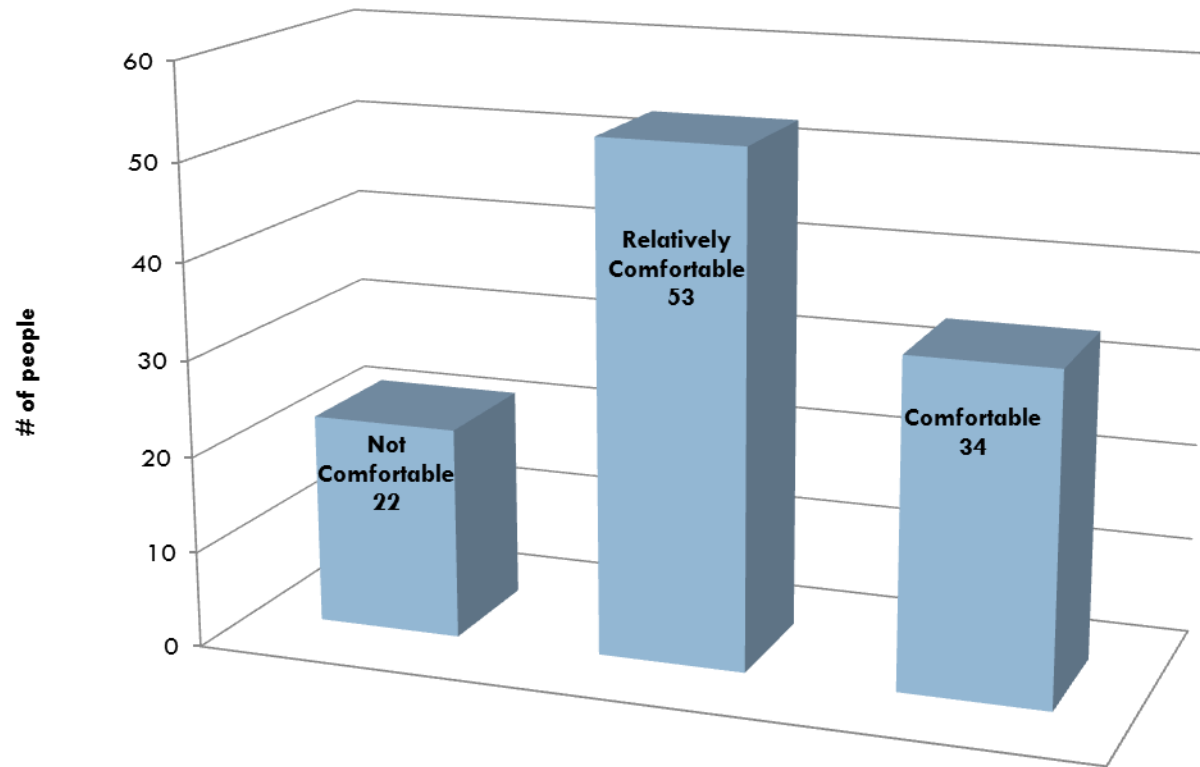
❑ By what mode do you typically travel to campus?

- ❑ Car or truck: 12
- ❑ Bus: 41
- ❑ Bike: 29
- ❑ Walk: 54

Findings

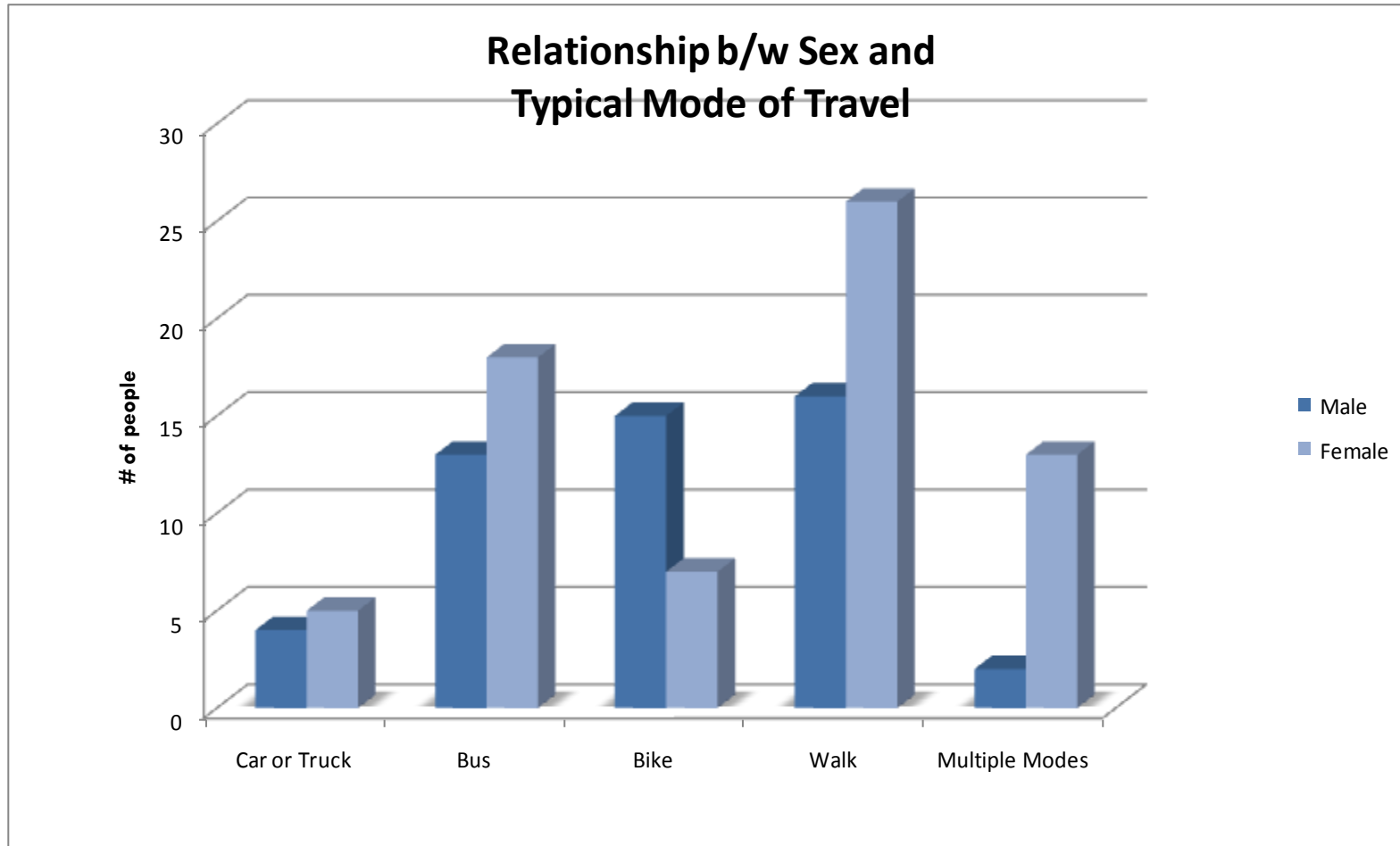
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How comfortable are you walking/cycling around campus, given the intermingling of cyclists and pedestrians?



Findings

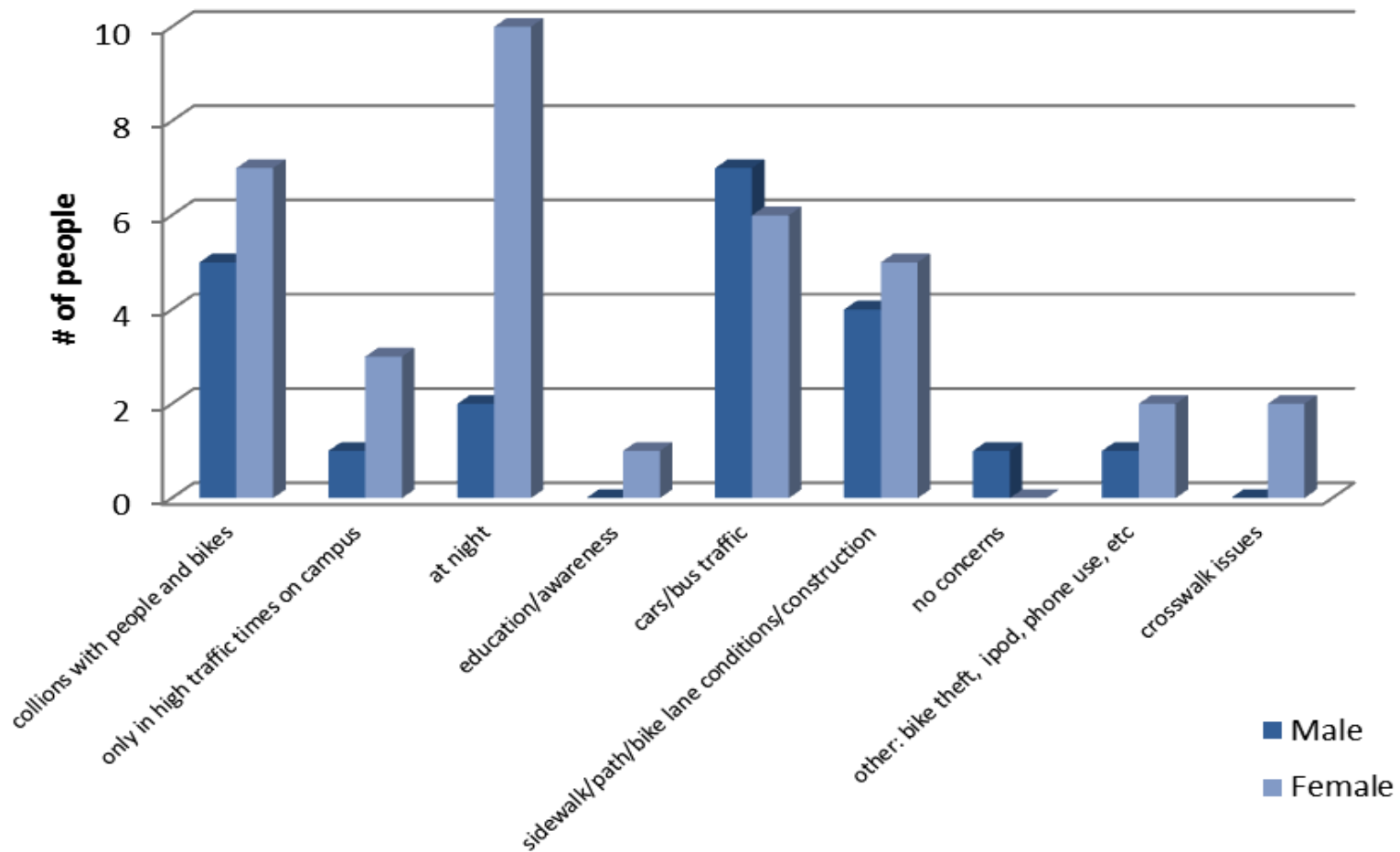
14



Findings

15

Relationship with Sex and Safety Concerns



What improvements would you like to see in the walking/cycling environment in the next five years?

16

Six reoccurring themes in the responses

1. Better sidewalks / ground conditions
2. More bike lanes
3. Better night lighting for safety purposes
4. Separate / designated locations for pedestrians and walkers
5. More bike facilities
6. Wider sidewalks

Recommendations

17

- ❑ Administrative structure
 - ❑ Reorganize duties, 1 person in charge of bicycling
 - ❑ Clear committee structure, feedback mechanism
- ❑ Policy and planning
 - ❑ Clearer registration, impoundment policies
 - ❑ Bicycle master plan
- ❑ Infrastructure
 - ❑ Service stations, covered/secure bicycle parking
 - ❑ “Sharrows” or bicycle lanes

Recommendations

18

- ❑ Advocating for bicycle use
 - ❑ Information to incoming students
 - ❑ Bicycle safety education
- ❑ Enforcement
 - ❑ Enforce bicycle laws
 - ❑ Stricter standards for motorists
- ❑ Town/University relations
 - ❑ Collaboratively plan, jointly review projects

Recommendations

19

- ❑ Resources
 - ❑ Website with bicycling resources
 - ❑ Maps
- ❑ Pedestrian/bicyclist relations
 - ❑ Dismount zone
 - ❑ Traffic laws

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