



# **REGIONAL BICYCLE AND PEDESTRIAN STUDY**

*A Strategic Vision for Walking and Bicycling in the  
Greater Nashville Region*

## **Count Procedures Manual**

Technical Memorandum 3B

November 2009

## TABLE OF CONTENTS

1.0	INTRODUCTION .....	1
2.0	COUNT DATES AND TIMES .....	2
2.1	TIMES .....	2
2.2	RATIONALE FOR TIME PERIODS .....	2
2.3	WEATHER .....	2
3.0	COUNTS.....	3
3.1	COUNT METHOD.....	3
3.2	COUNT INSTRUCTIONS .....	3
3.3	OPTIONAL STEPS AND TASKS.....	6
4.0	CONCLUSIONS .....	7

## APPENDIX

Appendix A Background Data Sheet and Instructions

Appendix B Counter Instructions

Appendix C Count Forms

Appendix D Instructional PowerPoint Presentation for Counters

Appendix E Pilot Count Program Summary and Results

## 1.0 INTRODUCTION

One of the greatest challenges facing the bicycle and pedestrian field is the lack of documentation on usage and demand. Without accurate and consistent demand and usage figures, it is difficult to measure the positive benefits of investments in these modes, especially when compared to the other transportation modes such as the private automobile.

In 2004, the Institute of Transportation Engineers (ITE) Pedestrian and Bicycle Council initiated the National Bicycle & Pedestrian Documentation Project (NBPD). The project began as a response to the lack of national walking and biking data. The NBPD concept is to provide materials and instructions to agencies such as the Nashville Area Metropolitan Planning Organization (MPO) to conduct counts and surveys in a consistent manner, provide standard count dates and times, provide a location where information can be sent, and make the information available to the public.

This document serves as a manual to assist the Nashville Area MPO and its member jurisdictions in creating a structure and process for conducting an annual bicycle and pedestrian count program, in which the data can be shared locally, regionally, and nationally. This document was developed as part of the Regional Bicycle and Pedestrian Study. Detailed instructions on conducting bicycle and pedestrian counts are provided in this manual. The document first reviews the proposed dates and times, and then provides recommendations for counts. This manual is meant to help the MPO develop an effective annual count program in which the data can be utilized to evaluate fund requests for facility improvements, prioritize improvements, and show the impacts of recent improvements. The NBPD methodology and structure were closely followed in the development of this manual in order to maintain consistency between the Nashville region and the national bicycle and pedestrian data.

Finally, a pilot program utilizing this instructional manual was undertaken in the greater Nashville region in conjunction with the 2009 NBPD bicycle and pedestrian count effort during the week of September 7, 2009. Several minor modifications were made to the manual and count forms based on the pilot initiative and are reflected in this manual. The results of the pilot count program along with the count instruction materials are included in the Appendix of this document.

## 2.0 COUNT DATES AND TIMES

September is the accepted annual national bicycle and pedestrian count period. Each year three weekdays and a weekend in September are selected as the national count/survey days. To reduce the chance that data are skewed by weather, sports events, or other outside factors, it may be desirable to count some locations on more than one day. The 2009 national count/survey days are Tuesday, September 8 through Thursday, September 10. Optional weekend count days are also selected for Saturday, September 12 and Sunday, September 13. September was selected because it represents a peak period for walking and bicycling, both work and school-related. Weather conditions are generally conducive to walking and bicycling, schools have been underway for several weeks, and people have returned from vacations and are back at work.

It is recommended that the MPO's count program coincide with the NBPD dates for data consistency and also to promote awareness by participating in the national count effort. The NBPD posts the selected national count/survey days on its website each year, which is [www.bikepeddocumentation.org](http://www.bikepeddocumentation.org).

### 2.1 TIMES

Recommended time periods are identified below. The recommended time periods represent the likely busiest periods for bicycling.

***RECOMMENDED TIMES:***

Weekday – (7-9 AM)

Weekday – (4-6 PM)

Weekend – (12-2 PM)

### 2.2 RATIONALE FOR TIME PERIODS

Weekday PM peak periods were chosen since the afternoon peak typically has the largest volume of travelers, with commuters, school children and people running errands. Weekday AM peak periods were chosen since the work commute period coincides with the school commute period. Counts conducted during these periods will provide an excellent snapshot of bicycling and walking during the peak periods of the year, particularly for commuters. The weekend recommended times were chosen in order to capture primarily recreational bicycling and walking.

### 2.3 WEATHER

Weather may be a determinant in selecting which dates to conduct counts, but for most cases it is not viewed as a major determinant. Weather conditions will be recorded for each count in the Background Data Sheet and can be considered as a factor in future analysis. Over time, future counts and surveys will average out and overall trends in activity will become apparent.

## 3.0 COUNTS

The proposed counts are intended to identify the numbers of bicyclists and pedestrians passing a specific point: on a sidewalk (both sides of street), on a path (both directions of travel), and on on-street bikeways (both directions of travel). A person who passes by a point more than once is counted *each time* they pass by the point.

### 3.1 COUNT METHOD

There are several methods to conduct the counts. Probably the most popular is by trained manual counters, usually volunteers. Other methods include video and infrared detection. Both of these methods require purchase or lease of the devices, which may limit the number of locations that can be counted at once. Each device requires mounting, set-up, and calibration. The infrared detection is primarily utilized in recreational locations rather than urban settings. The use of videos to count bicycle and pedestrian activity is useful since the data are recorded and can be watched at a later date. A combination of all three methods can also be utilized. For cost comparison purposes, it should be noted that cost of an infrared automatic people counter is approximately \$900. For the purposes of this manual, instructions for organizing and conducting the counts with trained counters are provided.

### 3.2 COUNT INSTRUCTIONS

The MPO should designate a Count Coordinator who will serve as the primary contact and manager of the count effort. The Count Coordinator will be responsible for selecting the count locations, organizing the count program, obtaining and training the count staff, and managing the data tabulation.

#### **STEP 1: OBTAIN MATERIALS**

Count forms, Counter Instructions, and the Background Data Sheet are provided in the Appendix of this manual. The MPO should check for updates to the forms on the NBPD website each year located at [www.bikepeddocumentation.org](http://www.bikepeddocumentation.org).

#### **STEP 2: SELECT GENERAL COUNT LOCATIONS**

The following considerations and suggested criteria are provided to help in the selection of general count locations:

- bicycle and pedestrian activity areas or corridors (downtown, near school campuses, parks, large workplaces, etc.)
- representative locations in urban, suburban, and rural locations
- key corridors that can be used to gauge the impacts of future improvements
- locations where counts have been conducted historically
- locations where collisions involving bicyclist and/or pedestrians are high
- gaps and pinch points for bicyclists and pedestrians (potential improvement areas)

The best locations are those that meet as many of the criteria as possible.

### **STEP 3: SELECT SPECIFIC COUNT LOCATIONS**

Once general locations have been selected, the Count Coordinator will need to inspect the sites to determine exactly where counters can be positioned.

Guidelines for this inspection trip include:

- For multi-use paths and parks, locations near the major access points are best.
- For on-street bikeways, counts are to be conducted for both sides of the street. Locations where there are few if any alternative parallel routes are best.
- For traditional downtown areas, a mid-block location near the center of the downtown is best. Bicycles and pedestrians are to be counted in one direction of travel only.
- For large-scale employee campuses, either on the main access roadway or near off-street multi-use paths is best. The count should include everyone in both directions at one access point.
- For residential areas, locations near higher density developments or near parks and schools are the best. The count should include everyone in both directions at one access point, typically a sidewalk and street.

For all locations:

- Counters will need to be in a safe, visible location and should be on public property in a location that does not block pedestrians or bicyclists.
- If the count is to be conducted on private property, written permission from property owners must be obtained.
- If at all possible, the counters should be located in an area that will be comfortable for them (shade on hot days, shelter from wind/rain/etc during inclement weather).

### **Rationale for Locations**

The recommended locations are based on finding places where bicyclists and pedestrians can be expected to be counted, either now or after improvements have been made. The purpose of the counts is to understand peak bicycle and pedestrian activity on a typical day; while it may be useful to conduct a few counts where bicyclists and pedestrians are not expected, it is preferable to understand existing use.

### **STEP 4: COMPLETE THE BACKGROUND DATA SHEET**

This sheet will provide valuable information on the setting and conditions in which the counts take place. The MPO will be able to cross-tabulate things such as usage with land use, density, and weather. A Background Data Sheet should be completed for each count location. The Background Data Sheet along with instructions on how to complete the sheet, are provided in the Appendix.

### **STEP 5: OBTAIN COUNTERS**

Each location should require one counter, unless an extremely busy downtown intersection is selected. It is recommended a counter is identified and secured for each location plus one (1)

backup counter for every five (5) locations.

#### **STEP 6: TRAIN COUNTERS**

Counters will need to be trained how to complete forms and interpret field conditions. Trainings can be conducted directly prior to count times in the field, or at a separate prior training time, and re-briefed in the field. Counters need to be instructed how to respond to questions from the public on their activities. They should also be instructed on how to fill out the count forms, how to count bicyclists and pedestrians (specifically, every time a bicyclist or pedestrian passes by) and what not to count (e.g. foot or bicycle traffic on side streets adjacent to count, etc).

A PowerPoint presentation was developed to provide detailed training and instructions for the counters. The presentation includes pictures and examples of counting situations, instructions for completing the count forms along with a brief discussion of the project background and goals. Specific counter instructions and the PowerPoint presentation are included in the Appendix of this Manual and should be provided to each counter.

### **The Day of the Count**

#### **STEP 7: COUNTER EQUIPMENT**

Counters should be provided with data sheet(s) and written instructions prior to the count. Counters should be instructed to provide their own water, writing utensils, writing surface, and to dress appropriately for weather.

It may be ideal to provide one or two training sessions in each county prior to the counts to facilitate training and instructions, distribute count location assignments, and count materials.

#### **STEP 8: TRANSPORTING AND MANAGING COUNTERS**

Counters will need to arrive at the count locations at least 15 minutes ahead of schedule. The Count Coordinator should designate supervisors to visit each count location to ensure that counters are at the correct location, on schedule, and correctly recording the data.

#### **STEP 9: QUALITY CONTROL**

The Count Coordinator and any location supervisors should conduct a random review of counters during the count period to ensure they are on-duty and tabulating information correctly. Count results that vary significantly from one time period to the next or that are unusually consistent may need to be explained sufficiently to the Count Coordinator's satisfaction, or discarded.

#### **STEP 10: COLLECTING FORMS**

The collection of completed count forms from volunteer counters should be established prior to conducting counts. The Count Coordinator should either designate one person from each county, for which counts have been conducted, to collect the forms from volunteers or establish a process by which completed forms are provided back to the Count Coordinator within a specified time period (e.g. that day or the next morning).

#### **STEP 11: SUBMITTING DATA**

If the MPO chooses to share the data, the count forms and background data sheets for each location should be submitted to the NBPD at [data@bikepeddocumentation.org](mailto:data@bikepeddocumentation.org). The MPO can also submit tabulated data to the NBPD by tabulating the count forms and background data sheets in the Excel Data Spreadsheet provided by the NBPD.

### **3.3 OPTIONAL STEPS AND TASKS**

The NBPD also includes a survey effort that can be performed during the same times as the counts. The optional survey can require additional resources (e.g. volunteers), but usually occurs at many of the same locations as the counts. The MPO may in the future decide to incorporate the optional survey component into the count procedure once the count program has proven successful.

Additionally, it may be useful to include a questionnaire in the counter packet for the counters to complete after the count and return with the count forms. This questionnaire would be designed to evaluate the clarity of the instructions and count forms so that any necessary improvements to the procedure can be incorporated the following year.

Furthermore, the MPO could provide this manual to local jurisdictions to carry out the count effort in the future. In this case, each jurisdiction could select a Count Coordinator, who would be responsible for the program within their jurisdiction as well as supplying the tabulated data to the MPO once complete.

## 4.0 CONCLUSIONS

An annual bicycle and pedestrian count procedure will help the Nashville Area MPO and its member jurisdictions understand the current demand for non-motorized travel as well as pinpoint trends and growth throughout the region. Demand and usage data obtained through an annual count program can be utilized in funding and policy making for bicycle and pedestrian facilities. Currently, there is a lack of bicycle and pedestrian trip data within the region as well as nationally. This count procedure, which mirrors the NBPD Project, provides standardized procedures and count forms for any agency within the MPO area to utilize and share their local data both locally and nationally. This count procedures manual is based on the NBPD methodology, and the instructions on how to submit the Nashville Region's data to the NBPD are also included.

As outlined in this manual, an annual bicycle and pedestrian count program can be easily implemented in order to obtain vital data that can be used to provide information and support funding for non-motorized travel facilities. These data may also show the positive benefits of recent bicycle and pedestrian improvements and be used to promote awareness in the region. A pilot program utilizing this instructional manual was launched in the greater Nashville region in conjunction with the 2009 NBPD national bicycle and pedestrian count effort during the week of September 7, 2009. Along with the count instruction materials, the results of the pilot count program are included in the Appendix of this document. In the future, the MPO may choose to allow cooperative local jurisdictions to conduct the count program locally and be responsible for submitting the data to the MPO.

## **APPENDIX**

Appendix A Background Data Sheet and Instructions

Appendix B Counter Instructions

Appendix C Count Forms

Appendix D Instructional PowerPoint Presentation for Counters

Appendix E Pilot Count Program Summary and Results

## Appendix A

### Background Data Sheet and Instructions

NASHVILLE AREA  
METROPOLITAN PLANNING ORGANIZATION

NATIONAL BICYCLE AND PEDESTRIAN DOCUMENTATION PROGRAM						
BACKGROUND DATA SHEET						
Agency/Organization:			Enter here			
ID #:			Enter here			
Date sheet completed:			Enter here			
<b>Contact Information:</b>			Enter here			
Lead Person Name			Enter here			
Address			Enter here			
E-mail			Enter here			
Phone			Enter here			
<b>General Area Background:</b>			Local Community	County		Region
Name of jurisdiction(s):			Enter here	Enter here		Enter here
If County or Region, number of local agencies:			Enter here	Enter here		Enter here
Source of demographic data:			Enter here	Enter here		Enter here
Year of data:			Enter here	Enter here		Enter here
Population:			Enter here	Enter here		Enter here
Density (people per square mile):			Enter here	Enter here		Enter here
Bicycle Mode Share: US Journey to Work			Enter here	Enter here		Enter here
Pedestrian Mode Share: US Journey to Work			Enter here	Enter here		Enter here
Average Age:			Enter here	Enter here		Enter here
Average Income:			Enter here	Enter here		Enter here
Number of annual visitors to area:			Enter here	Enter here		Enter here
<b>Count Location Description:</b>			Loc. #1	Loc. #2	Loc. #3	Loc. #4
Type of facility:			Enter here	Enter here	Enter here	Enter here
Type of setting:			Enter here	Enter here	Enter here	Enter here
Scenic Quality:			Enter here	Enter here	Enter here	Enter here
Surrounding land uses:			Enter here	Enter here	Enter here	Enter here
Schools, parks, visitor destinations within 1 mile:			Enter here	Enter here	Enter here	Enter here
Quality of connecting facilities:			Enter here	Enter here	Enter here	Enter here
Length of facility:			Enter here	Enter here	Enter here	Enter here
Access:			Enter here	Enter here	Enter here	Enter here
Quality of overall network:			Enter here	Enter here	Enter here	Enter here
Traffic volumes (ADT):			Enter here	Enter here	Enter here	Enter here
Traffic speeds (posted):			Enter here	Enter here	Enter here	Enter here
Crossings and intersections:			Enter here	Enter here	Enter here	Enter here
Crossings and intersection traffic:			Enter here	Enter here	Enter here	Enter here
Crossings and intersection protection:			Enter here	Enter here	Enter here	Enter here
Condition			Enter here	Enter here	Enter here	Enter here
Topography:			Enter here	Enter here	Enter here	Enter here
<b>Count #1 Data:</b>						
Date Collected:			Enter here	Enter here	Enter here	Enter here
Time Period:			Enter here	Enter here	Enter here	Enter here
Weather:			Enter here	Enter here	Enter here	Enter here
Bicycles:			Enter here	Enter here	Enter here	Enter here
Pedestrians:			Enter here	Enter here	Enter here	Enter here
Other:			Enter here	Enter here	Enter here	Enter here
<b>Count #2 Data:</b>						
Date Collected:			Enter here	Enter here	Enter here	Enter here
Time Period:			Enter here	Enter here	Enter here	Enter here
Weather:			Enter here	Enter here	Enter here	Enter here
Bicycles:			Enter here	Enter here	Enter here	Enter here
Pedestrians:			Enter here	Enter here	Enter here	Enter here
Other:			Enter here	Enter here	Enter here	Enter here
<b>Count #3 Data:</b>						
Date Collected:			Enter here	Enter here	Enter here	Enter here
Time Period:			Enter here	Enter here	Enter here	Enter here
Weather:			Enter here	Enter here	Enter here	Enter here
Bicycles:			Enter here	Enter here	Enter here	Enter here
Pedestrians:			Enter here	Enter here	Enter here	Enter here
Other:			Enter here	Enter here	Enter here	Enter here

## BACKGROUND DATA SHEET INSTRUCTIONS

The Background Data Sheet is included in the Data Tabulation Form Excel Spreadsheet. The Spreadsheet is downloadable from the Alta Planning + Design Website at: [www.altaplanning.com](http://www.altaplanning.com).

Each count and survey location will be identified by a Location Number that in turn is associated with a Background Data Sheet. If possible, include a numbered digital photo with each count and survey location. The Background Data Sheet is intended to allow researchers to test the impact of various background materials against count and survey results. Please fill out the data to the best of your ability. Most of this data is available through published sources such as the U.S. Census (demographics, journey to work), Bureau of Transportation Statistics (National Household Travel Survey), or by regional agencies.

The Bicycle Friendly Community website ([www.bicyclefriendlycommunity.org](http://www.bicyclefriendlycommunity.org)) website also provides direct links to most of the relevant U.S. Census and other data sources. You may leave these blank if you do not know the answers, or if the information is not available. The following key will help you fill in the required fields in the excel spreadsheet:

### General Area Background:

*General area is described as the jurisdictions where the counts are being conducted, which could range from a community to a region*

- Name of Jurisdiction: region, city, town, county, or community
- If County or Region, number of local agencies included in count or survey area
- Source of demographic data
- Year of data
- Population of survey or count area
- Density (people per square mile)
- Bicycle mode share: Journey to Work
- Pedestrian mode share: Journey to Work
- Average age
- Average income
- Number of annual visitors to area (if not published, enter best guess in round numbers)

### Count Location Description:

*To be completed for each count location.*

Type of facility:

- 1 = paved multi use path at least 8 feet wide
- 2 = unpaved trail
- 3 = bike lane with standard signing and striping
- 4 = signed bike route
- 5 = street or road with marked shoulders (min. 2 feet wide)
- 6 = street or road with no shoulders or less than 2 feet wide
- 7 = sidewalk (at least 4 feet wide)
- 8 = unimproved (dirt, gravel) shoulder

Type of setting:

- 1 = urban
- 2 = suburban
- 3 = rural

Scenic Quality:

- 1 = high scenic qualities (views, shaded, quiet, historical)
- 2 = neutral or better scenic qualities
- 3 = poor scenic qualities

Surrounding land uses (within 1 to 2 miles):

- 1 = residential
- 2 = rural/agricultural/open space
- 3 = retail
- 4 = office
- 5 = manufacturing/warehouse

Schools, parks, visitor destinations adjacent or close to the facility:

- 1 = none
- 2 = 1-2
- 3 = 3-5
- 4 = 6 and over

Quality of connecting facilities (paths, bike lanes, routes):

- 1 = no connections, poor access
- 2 = limited connections (one end only)
- 3 = good system connections (both ends)
- 4 = excellent system connections (both ends and intermediate)

Length of Facility:

- 1 = less than 1 mile
- 2 = 1-2 miles
- 3 = 2-5 miles
- 4 = 5-10 miles
- 5 = over 10 miles
- 6 = part of sidewalk network

Access:

- 1 = poor direct access from adjacent neighborhoods
- 2 = adequate access
- 3 = excellent access, including trailheads
- 4 = part of sidewalk system

Quality of overall network:

- 1 = poor community system of bikeways or walkways
- 2 = adequate community system (intermittent)
- 3 = good community system (continuous, good condition)

Traffic volumes (ADT) of adjacent road:

- 1 = under 2,500 ADT
- 2 = 2,500 – 7,500 ADT
- 3 = 7,500 – 15,000 ADT
- 4 = over 15,000 ADT

Traffic speeds (posted) of adjacent roads:

- 1 = 25mph
- 2 = 26-35 mph
- 3 = 36-45 mph
- 4 = 46-55mph
- 5 = 56mph or over

Crossings and Intersections (average number per linear feet):

- 1 = every 400 feet or less
- 2 = every 400-1,000 feet
- 3 = every 1,000-5,000 feet
- 4 = 5,000-10,000 feet
- 5 = none

Crossing and Intersection Traffic:

- 1 = all minor streets (less than 2,500 ADTs)
- 2 = minor to moderate traffic (2,501 – 7,500 ADTs)
- 3 = minor to high traffic (7,501 – 15,000 ADTs)
- 4 = minor to very high traffic (over 15,001 ADTs)

Crossing and Intersection Protection:

- 1 = inadequate (no crosswalks, stop signs, or signals)
- 2 = minimal: crosswalks only
- 3 = adequate: crosswalks, stop signs, and signals as needed

Condition:

- 1 = poor condition (rough surface, vandalism, debris, etc.)
- 2 = good condition (smooth surface, good maintenance)

Topography:

- 1 = level
- 2 = moderate grades
- 3 = steep topography

**Count Data**

*To be completed for each count*

Date: date of count

Time period:

1 = weekday, 7-9am

2 = weekend, 12-2pm

3 = weekday, 4-6pm

4 = weekday, 7am – 7pm

5 = weekend, 7am – 7pm

Weather:

1 = extreme (heavy rain, snow, freezing, very humid, over 95 degrees)

2 = poor (32-50 degrees, 90-95 degrees, light rain, wind)

3 = acceptable (50-90 degrees, no rain)

Bicycles: number of bicycles counted during period

Pedestrians: number of pedestrians counted during period

Other: number of equestrians, skaters, bladders, skateboards, and others counted

Appendix B  
Counter Instructions

## **INSTRUCTIONS FOR BICYCLE AND PEDESTRIAN COUNTERS**

**Dates:** Tuesday, Wednesday, or Thursday, September 8, 9, or 10. Saturday or Sunday, September 12 or 13. *(Indicate one by MPO)*

**Time(s):** Weekday: 7:00-9:00am or 4:00-6:00pm  
Weekend: 12:00-2:00 pm  
*(Indicate one by MPO)*

**Count Supervisor:** \_\_\_\_\_ (local contact/agency) ph#####  
*(Indicate by MPO)*

**Enclosures:** You should have the following in this packet:

- 1) a map showing your count location
- 2) a count form
- 3) a business-reply envelop to return the completed forms

**Other Items Needed:** Please make sure to bring:

- 1) a pen / pencil
- 2) something to write on (clipboard, portfolio, etc.)
- 3) some sort of timekeeping device (cell phone, watch)
- 4) weather-appropriate clothing, water

**Introduction:** This is an annual count taken through out the Nashville Metropolitan Region. Data collected from these counts will be used to monitor success in increasing bicycle and pedestrian travel as identified in the Nashville Area MPO Regional Bicycle and Pedestrian Plan.

**Assignments:** Each location will have at least one counter. Depending on the number of counters, some locations may have more than one counter. In these cases, please use only one count form per location. Since the locations with multiple counters are expected to be busier, it will work best if one person counts and the other person fills out the forms.

**Conducting the Count:** You have been provided with one copy of the count form. Please make sure to coordinate the correct time period with the correct box, as we want to measure variation in travel method over time. Also, please make sure to write your name and location on each form.

**The count itself is very simple:** place a hatch mark on the form for each passing cyclist, pedestrian, or other non-motorized transit. People in wheelchairs are to be counted as pedestrians. People walking their bicycles count as bicyclists. People on rollerblades, skateboards, scooters, and other non-motorized transport devices are to be counted as "Other".

**Whom do you count?** Only count those cyclists passing your post in the direction(s) indicated on your map! This includes anyone who is walking their bicycle past your post. Do not count passersby on nearby streets unless specifically instructed to do so, as this could result in double-counting.

**Returning the Count Forms:** Please submit to \_\_\_\_\_.  
ATTN: \_\_\_\_\_.

**Other Information:** The accuracy of the count depends largely on the coverage of all points during the entire morning and evening commute. Please make sure to get your location 15 minutes or more ahead of count time!

If you have any problems or know that you won't be able to make it, please call your count supervisor ASAP (see top for phone numbers). They or one of their colleagues will be coming around to check on you during the counts.

Thanks to everyone involved in this important data collection effort. This would not be possible without your help!

Appendix C  
Count Forms

## STANDARD SCREENLINE COUNT FORM

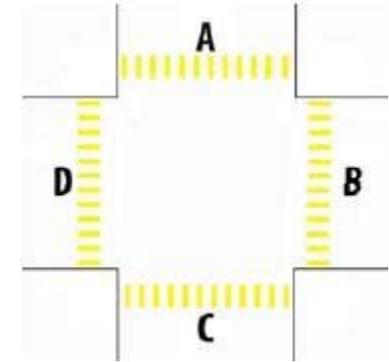
Name: \_\_\_\_\_ Location: \_\_\_\_\_  
Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

Please fill in your name, count location, date, time period, and weather conditions (sunny, fair, rainy, very cold). Count all bicyclists and pedestrians crossing your screenline under the appropriate categories.

- Count for two hours in 15-minute increments.
- Count bicyclist who ride on the street and on the sidewalk.
- Count the number of people on the bicycle, not the number of bicycles.
- Pedestrians include people in wheelchairs or others using assistive devices, children in strollers, etc.
- People using equipment such as skateboards or rollerblades should be included in the "Others" category.

15-Minute Time Period	Bicyclists		Pedestrians		Others	
	Female	Male	Female	Male	Female	Male
00-:15						
15-:30						
30-:45						
45-1:00						
1:00-1:15						
1:15-1:30						
1:30-1:45						
1:45-2:00						
<b>Total</b>						

## STANDARD BICYCLE COUNT FORM



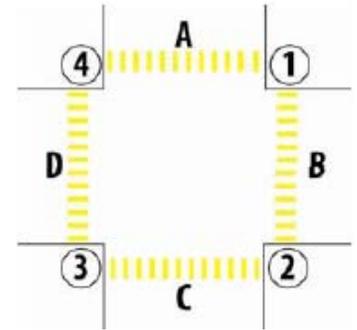
Name: \_\_\_\_\_ Location: \_\_\_\_\_  
Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

Please fill in your name, count location, date, time period, and weather conditions (sunny, fair, rainy, very cold).

- Count for two hours in 15-minute increments.
- Count bicyclist who ride on the street and on the sidewalk.
- Count the number of people on the bicycle, not the number of bicycles.

Bicycle Counts												
15-Minute Time Period	Leaving Leg A			Leaving Leg B			Leaving Leg C			Leaving Leg D		
	A to B	A to C	A to D	B to C	B to D	B to A	C to D	C to A	C to B	D to A	D to B	D to C
00-:15												
15-:30												
30-:45												
45-1:00												
1:00-1:15												
1:15-1:30												
1:30-1:45												
1:45-2:00												
Total												
Total Leg												
Street Name A to C:												
Street Name B to D:												

## STANDARD PEDESTRIAN COUNT FORM



Name: \_\_\_\_\_ Location: \_\_\_\_\_ # \_\_\_\_\_  
Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

Please fill in your name, count location, date, time period, and weather conditions (sunny, fair, rainy, very cold).

- Count for two hours in 15-minute increments.
- Pedestrians include people in wheelchairs or others using assistive devices, children in strollers, etc.
- People using equipment such as skateboards or rollerblades should be included in the "Others" category.

Pedestrian Counts																
15-Minute Time Period	Leaving Leg A				Leaving Leg B				Leaving Leg C				Leaving Leg D			
	1 to 2	4 to 3	1	4	1 to 4	2 to 3	1	2	2 to 1	3 to 4	2	3	3 to 2	4 to 1	3	4
00-:15																
15-:30																
30-:45																
45-1:00																
1:00-1:15																
1:15-1:30																
1:30-1:45																
1:45-2:00																
<b>Total</b>																
<b>Total Leg</b>																
<b>Street Name A to C:</b>																
<b>Street Name B to D:</b>																

## Appendix D

### Instructional PowerPoint Presentation for Counters

# Nashville Area Metropolitan Planning Organization Bicycle and Pedestrian Plan

## Volunteer Count Instructions



## Study Area

- Five County Region and Portions of Maury and Robertson Counties
- 11 counts in Davidson
- 3 counts each in Rutherford, Sumner, Williamson, & Wilson



## Why Do Counts?

- Non-motorized modes do not have consistent, uniform data collection and analysis system
- Result = harder to justify funding, document benefits, understand what influences walking and biking



## How will the counts be used?

- Establish a Regional database of bicycle and pedestrian count information
- Understand the facility needs and uses of bicyclists and pedestrians
- Share data with National Bicycle and Pedestrian Documentation Project



## Selecting Count Times

- Choose peak walking & biking season
- School in session
- Conducive weather conditions
- Not during prime vacation time
- Typical weekday (Tues, Wed, or Thurs)
- Commute time periods



## Selecting Count Locations

- Historical count locations
- Bicycle facility
- Greenways
- High collision area
- Smart growth area
- Transit facility
- Planned project
- Mix of land uses
- Stakeholder recommendations



## Count Day Information

**Day:**  
**Tuesday, September 8, 2009**  
***National Count/Survey Week***

**Time:**  
**2 Hour AM Peak (7:00-9:00am)**  
**2 Hour PM Peak (4:00-6:00pm)**  
***Arrive 15 minutes prior to count start.***



**Back-up:**  
**Thursday, September 10, 2009 (Rain Day)**

## Items to Bring

- Location/Time Assignments (Provided via email)
  - Instructions
  - Location Map
  - Count Forms
  - Letter from MPO
- Watch/Stop watch
- Clipboard
- Pen/Pencil & spare
- Optional: Hat, sunscreen, jacket, folding chair, water, snacks



## Your Safety is Important

- Locate yourself in a safe spot for the count.
- Do not assume parking is available nearby.
- Be aware of private property. Stay in the public right-of-way during the count.
- Make sure you can see the intersection or roadway clearly (even if you stay in your car).

## Screenline Location Type

15-minute Example



### STANDARD SCREENLINE COUNT FORM

Name: \_\_\_\_\_ Location: \_\_\_\_\_ # \_\_\_\_\_  
Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

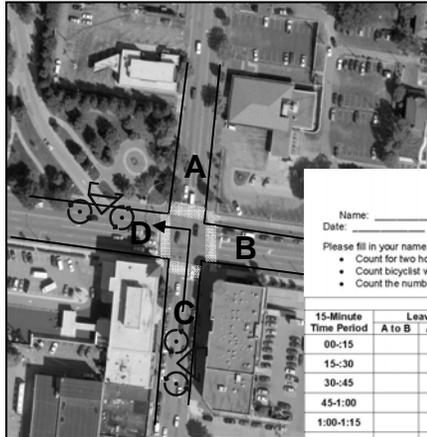
Please fill in your name, count location, date, time period, and weather conditions (fair, rainy, very cold). Count all bicyclists and pedestrians crossing your screen line under the appropriate categories.

- Count for two hours in 15 minute increments.
- Count bicyclists who ride on the sidewalk.
- Count the number of people on the bicycle, not the number of bicycles.
- Pedestrians include people in wheelchairs or others using assistive devices, children in strollers, etc.
- People using equipment such as skateboards or rollerblades should be included in the "Other" category.

	Bicycles		Pedestrians		Others
	Female	Male	Female	Male	
00-15					
15-30					
30-45					

## Intersection Location Type – Bicycle Form

15-minute Example



Scenario: Bicyclist travels on Leg C, turns left onto Leg D.

**STANDARD BICYCLE COUNT FORM**

Name: \_\_\_\_\_ Location: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

Please fill in your name, count location, date, time period, and weather conditions (sunny, fair, rainy, very cold).

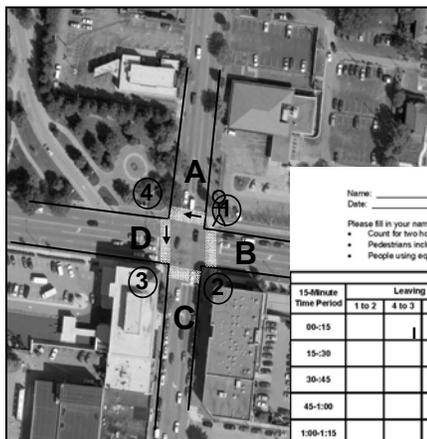
- Count for two hours in 15-minute increments.
- Count bicyclist who ride on the street and on the sidewalk.
- Count the number of people on the bicycle, not the number of bicycles.

15-Minute Time Period	Leaving Leg A				Leaving Leg B				Leaving Leg C				Leaving Leg D			
	A to B	A to C	A to D	B to C	B to D	B to A	C to D	C to A	C to B	D to A	D to B	D to C				
00-15																
15-30																
30-45																
45-1:00																
1:00-1:15																
1:15-1:30																
1:30-1:45																
1:45-2:00																
<b>Total</b>																
<b>Total Leg</b>																

Street Name A to C: \_\_\_\_\_  
 Street Name B to D: \_\_\_\_\_

## Intersection Location Type – Pedestrian Form

15-minute Example



Scenario #1: Pedestrian arrives at Corner 1 along Leg B, crosses Leg A, then crosses Leg D

**PEDESTRIAN INTERSECTION COUNT FORM**

Name: \_\_\_\_\_ Location: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

Please fill in your name, count location, date, time period, and weather conditions (sunny, fair, rainy, very cold).

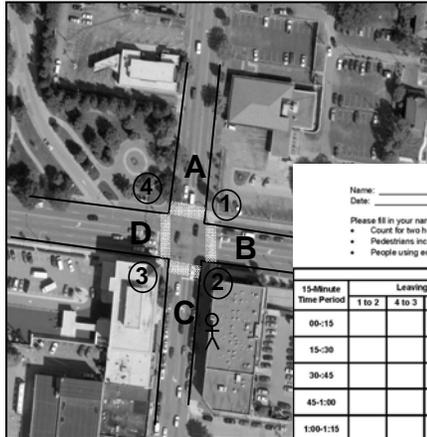
- Count for two hours in 15-minute increments.
- Pedestrians include people in wheelchairs or others using assistive devices, children in strollers, etc.
- People using equipment such as skateboards or rollerblades should be included in the "Others" category.

15-Minute Time Period	Leaving Leg A				Leaving Leg B				Leaving Leg C				Leaving Leg D			
	1 to 2	4 to 3	1	4	1 to 4	2 to 3	1	2	2 to 1	3 to 4	2	3	3 to 2	4 to 1	3	4
00-15																
15-30																
30-45																
45-1:00																
1:00-1:15																
1:15-1:30																
1:30-1:45																
1:45-2:00																
<b>Total</b>																
<b>Total Leg</b>																

Street Name A to C: \_\_\_\_\_  
 Street Name B to D: \_\_\_\_\_

## Intersection Location Type – Pedestrian Form

15-minute Example



Scenario #2: Pedestrian arrives at Corner 2 along Leg C and then turns right onto Leg B

**PEDESTRIAN INTERSECTION COUNT FORM**

Name: \_\_\_\_\_ Location: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

Please fill in your name, count location, date, time period, and weather conditions (sunny, fair, rainy, very cold).  
 • Count for two hours in 15-minute increments.  
 • Pedestrians include people in wheelchairs or others using assistive devices, children in strollers, etc.  
 • People using equipment such as skateboards or rollerblades should be included in the "Others" category.

15-Minute Time Period	Leaving Leg A		Leaving Leg B				Leaving Leg C				Leaving Leg D					
	1 to 2	4 to 3	1	4	1 to 4	2 to 3	1	2	2 to 1	3 to 4	2	3	3 to 2	4 to 1	3	4
00-15																
15-30																
30-45																
45-1:00																
1:00-1:15																
1:15-1:30																
1:30-1:45																
1:45-2:00																
<b>Total</b>																
Total Leg																
Street Name A to C:																
Street Name B to D:																

## General Form Input

### STANDARD SCREENLINE COUNT FORM

Name: \_\_\_\_\_ Location: \_\_\_\_\_ # \_\_\_\_\_  
 Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

Please fill in your name, count location, date, time period, and weather conditions (fair, rainy, very cold).  
 Count all bicyclists and pedestrians crossing your screen line under the appropriate categories.

- Count for two hours in 15 minute increments.
- Count bicyclists who ride on the sidewalk.
- Count the number of people on the bicycle, not the number of bicycles.
- Pedestrians include people in wheelchairs or others using assistive devices, children in strollers, etc.
- People using equipment such as skateboards or rollerblades should be included in the "Other" category.

	Bicycles		Pedestrians		Others
	Female	Male	Female	Male	
00-15					
15-30					
30-45					

### Fill Out:

- Name
- Location
- Date
- Time Period
- Weather

## Data Input: Screenline Count Form

### STANDARD SCREENLINE COUNT FORM

Name: \_\_\_\_\_ Location: \_\_\_\_\_ # \_\_\_\_\_  
Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

Please fill in your name, count location, date, time period, and weather conditions (fair, rainy, very cold).  
Count all bicyclists and pedestrians crossing your screen line under the appropriate categories.

- Count for two hours in 15 minute increments.
- Count bicyclists who ride on the sidewalk.
- Count the number of people on the bicycle, not the number of bicycles.
- Pedestrians include people in wheelchairs or others using assistive devices, children in strollers, etc.
- People using equipment such as skateboards or rollerblades should be included in the "Other" category.

	Bicycles		Pedestrians		Others
	Female	Male	Female	Male	
00-:15					
15-:30					
30-:45					

### Data:

- 15 minute intervals
- Use "Tick" marks
- Count from each direction
- Count by person
- Others include:
  - Skateboarders
  - Rollerbladers

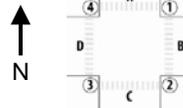
## Data Input: Intersection Count Form (Bicycle Counts)

### STANDARD BICYCLE INTERSECTION COUNT FORM

Name: \_\_\_\_\_ Location: \_\_\_\_\_  
Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather: \_\_\_\_\_

Please fill in your name, count location, date, time period, and weather conditions (fair, rainy, very cold).  
Count all bicyclists crossing your through the intersection under the appropriate categories.

- Count for two hours in 15 minute increments.
- Count bicyclists who ride on the sidewalk.
- Count the number of people on the bicycle, not the number of bicycles.



Time Period	Bicycle Counts											
	Leaving Leg A			Leaving Leg B			Leaving Leg C			Leaving Leg D		
	A to B	A to C	A to D	B to C	B to D	B to A	C to D	C to A	C to B	D to A	D to B	D to C
00-:15												
15-:30												
30-:45												
45-1:00												
1:00-1:15												
1:15-1:30												
1:30-1:45												
1:45-2:00												
Total												
Total Leg:												
Street Name A to C:							Location 1 (Total Leg A + Total Leg C) =					
Street Name B to D:							Location 2 (Total Leg B + Total Leg D) =					

Collect Turning Movements

Identify Street Names for Orientation

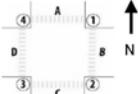
## Data Input: Intersection Count Form (Pedestrian Counts)

**PEDESTRIAN INTERSECTION COUNT FORM**

Name: \_\_\_\_\_ Location: \_\_\_\_\_  
 Date: \_\_\_\_\_ Time Period: \_\_\_\_\_ Weather Conditions: \_\_\_\_\_

Please fill in your name, count location, date, time period, and weather conditions (sunny, fair, rainy, very cold):

- Count for two hours in 15-minute increments.
- Pedestrians include people in wheelchairs or others using assistive devices, children in strollers, etc.
- People using equipment such as skateboards or rollerblades should be included in the "Others" category.



- Same person will count bicyclists & pedestrians at intersection locations
- Keep bicycle & pedestrian forms organized and separate

15-Minute Time Period	Pedestrian Counts															
	Leaving Leg A				Leaving Leg B				Leaving Leg C				Leaving Leg D			
	1 to 2	4 to 3	1	4	1 to 4	2 to 3	1	2	2 to 1	3 to 4	2	3	3 to 2	4 to 1	3	4
00-15																
15-30																
30-45																
45-1:00																
1:00-1:15																
1:15-1:30																
1:30-1:45																
1:45-2:00																
<b>TOTAL</b>																
<b>Total Leg</b>																
Street Name A to C:																
Street Name B to D:																

## Know How to Classify Users

Everyone is a Pedestrian



## Know How to Classify Users



**2 Bicyclists**



**2 Pedestrians**

## How to Respond to Questions from Public during the Count

- Conducting bicycle and pedestrian counts on behalf of the Nashville Area MPO.
- Data will be used to evaluate non-motorized travel needs and use
- Annual count program to identify growth
- Volunteer effort

***Maintain the count even if someone asks questions.***

## Returning the Data

Return completed count forms in any of 3 ways:

1. Mail to: Leslie Meehan  
Nashville Area MPO  
800 Second Avenue South  
Nashville, TN 37201
2. Scan & email to: [Leslie.Meehan@nashville.gov](mailto:Leslie.Meehan@nashville.gov)
3. Fax to: (615) 880-2450

**\*\*Please keep originals until we confirm the count forms have been received and are legible.\*\***

***Thank you for helping us in this important effort!!***

## Nashville Area Metropolitan Planning Organization Bicycle and Pedestrian Plan

### Contact Information:

Leslie Meehan – MPO Project Manager  
862-7211 or [Leslie.Meehan@nashville.gov](mailto:Leslie.Meehan@nashville.gov)  
[www.nashvillempo.org](http://www.nashvillempo.org)  
[www.walkbikeforum.blogspot.com](http://www.walkbikeforum.blogspot.com)

## Appendix E

### Pilot Count Program Summary and Results

## Pilot Count Program Summary

### Count Day:

- Tuesday, September 8, 2009

### 23 Locations Counted:

- 11 in Davidson County
- 3 in each of Rutherford, Sumner, Williamson, and Wilson Counties

### Location Types:

- Intersections
- Sidewalks/Bike Routes
- Greenways/Multi-use Paths

### Approximately 42 Volunteers:

- 2 Hours AM (7:00-9:00AM)
- 2 Hours PM (4:00-6:00PM)

### Count Results:

- Nearly 4,000 people counted
- 14% Bicyclists, 86% Pedestrians
- Greenways accounted for approximately 24% of those counted.
- 16 Locations counted more than 25 Pedestrians during two hours.
- 12 Locations counted more than 10 Bicyclists during two hours.

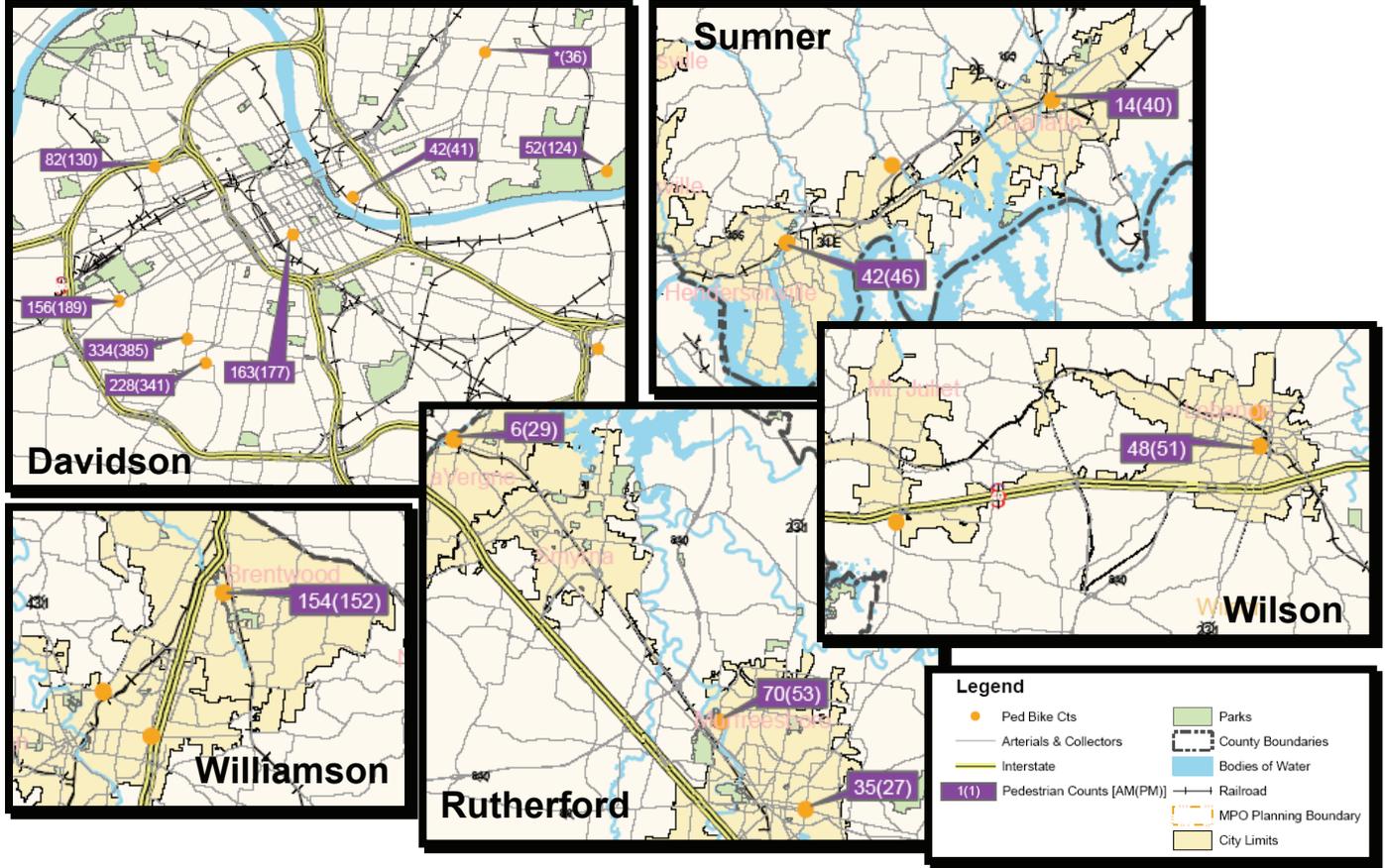
### 2009 Nashville Area MPO Bicycle & Pedestrian Count Program Results

#	Location	AM Pedestrian Total*	AM Bicyclist Total*	PM Pedestrian Total*	PM Bicyclist Total*
<b>Davidson County Summary</b>					
1	21st Avenue @ Blakemore Avenue	334	40	385	39
2	Belmont Boulevard @ Portland Avenue	228	53	341	52
3	West End Avenue near Centennial Park	156	25	189	18
4	Demonbreum Street @ 8th Avenue	163	19	177	16
5	Harding Place @ Nolensville Pike	15	0	54	4
6	Jefferson Street @ DB Todd	82	6	130	14
7	Shelby Bridge Pedestrian Bridge	42	17	41	13
8	Shelby Bottoms Greenway	52	6	124	38
9	Lebanon Road just west of Old Hickory Boulevard	7	1	5	6
10	Murfreesboro Road near Spence Lane	6	0	6	1
11	Gallatin Road south of Douglas Avenue	**	**	36	12
<b>Rutherford County Summary</b>					
1	Murfreesboro Road in LaVergne	6	3	29	2
2	Stones River Greenway near Thompson Lane	70	15	53	2
3	MTSU Boulevard near E. Main Street	35	13	27	17
<b>Sumner County Summary</b>					
1	South Water Avenue in Gallatin	14	2	40	2
2	Trail around Drake's Creek Park	42	3	46	7
3	Lower Station Camp @ Bison Road	1	0	3	8
<b>Williamson County Summary</b>					
1	Mack Hatcher @ Franklin Road	0	6	0	4
2	Mallory Lane @ Liberty Pike	6	2	15	4
3	Trailhead by YMCA off Concord Road	154	22	152	41
<b>Wilson County Summary</b>					
1	N. Castle Heights Avenue @ Coles Ferry Pike	5	2	1	7
2	Cumberland Drive @ S. Greenwood Street	48	4	51	11
3	Mt Juliet Road near Providence	3	0	3	1
<b>Nashville Area MPO Total</b>		<b>1,469</b>	<b>239</b>	<b>1,908</b>	<b>319</b>

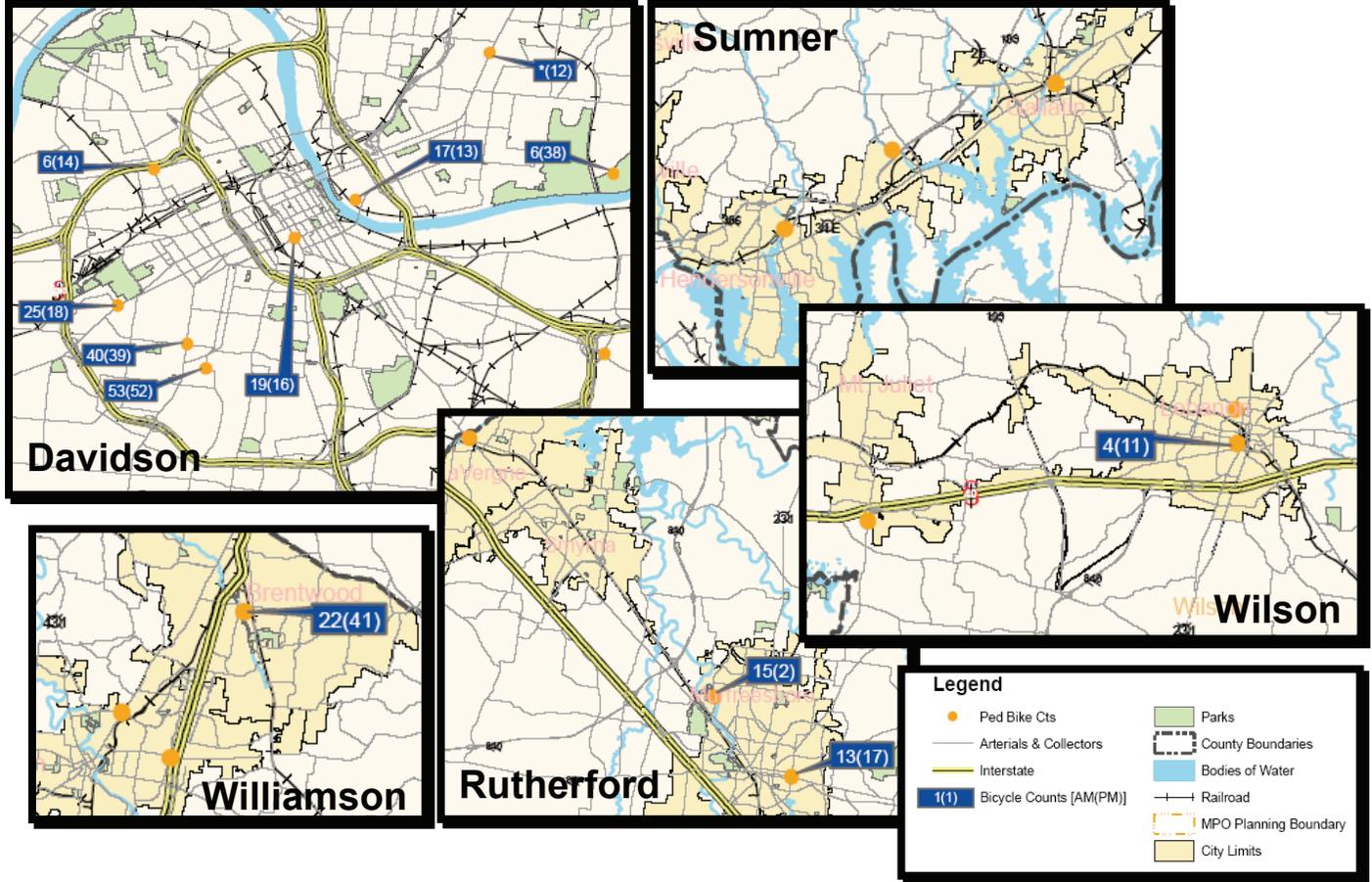
\* Totals represent the total of the 2-hour count time period (7-9AM & 4-6PM).

\*\* Count data forms were not received from volunteer.

## 2009 Pedestrian Counts



## 2009 Bicyclist Counts



NASHVILLE AREA  
METROPOLITAN PLANNING ORGANIZATION

NATIONAL BICYCLE AND PEDESTRIAN DOCUMENTATION PROGRAM												
BACKGROUND DATA SHEET												
Agency/Organization:	Nashville Area Metropolitan Planning Organization											
ID #:	Enter here											
Date sheet completed:	Enter here											
<b>Contact Information:</b>	<a href="http://www.nashvillempo.org">www.nashvillempo.org</a>											
Lead Person Name	Leslie Meehan											
Address	800 Second Avenue South, Nashville, TN 37201											
E-mail	<a href="mailto:Leslie.Meehan@nashville.gov">Leslie.Meehan@nashville.gov</a>											
Phone	615-862-7211											
<b>General Area Background:</b>	Local Community	County	Region									
Name of jurisdiction(s):	Davidson		Nashville Area MPO									
If County or Region, number of local agencies:												
Source of demographic data:	US Census 2000											
Year of data:	2009											
Population:	626,144											
Density (people per square mile):	1,243											
Bicycle Mode Share: US Journey to Work	0.18%											
Pedestrian Mode Share: US Journey to Work	3.78%											
Average Age:	36											
Average Income:	\$26,914											
Number of annual visitors to area:	11,500,000											
<b>Count Location Description:</b>	<b>Loc. #1</b>	<b>Loc. #2</b>	<b>Loc. #3</b>	<b>Loc. #4</b>	<b>Loc. #5</b>	<b>Loc. #6</b>	<b>Loc. #7</b>	<b>Loc. #8</b>	<b>Loc. #9</b>	<b>Loc. #10</b>	<b>Loc. #11</b>	
Type of facility:	7	3	7	4	7	4	1	1	3	6	7	
Type of setting:	1	1	1	1	1	1	1	3	1	1	1	
Scenic Quality:	2	2	3	2	3	2	1	1	2	3	2	
Surrounding land uses:	3	1	3	4	3	3	4	2	1	3	1	
Schools, parks, visitor destinations within 1 mile:	4	4	3	4	2	2	4	2	2	2	3	
Quality of connecting facilities:	4	2	4	3	1	2	4	3	2	1	1	
Length of facility:	6	3	6	3	1	2	1	4	3	4	6	
Access:	4	2	4	2	1	2	2	3	2	1	2	
Quality of overall network:	3	2	3	2	1	3	3	3	2	1	1	
Traffic volumes (ADT):	4	3	4	3	4	3	4	1	4	4	4	
Traffic speeds (posted):	2	2	2	2	3	2	5	1	3	3	3	
Crossings and intersections:	1	1	1	1	3	2	2	5	3	1	1	
Crossings and intersection traffic:	4	2	4	4	4	2	3	1	4	4	4	
Crossings and intersection protection:	3	3	3	3	2	2	3	3	3	1	3	
Condition:	2	2	2	2	2	2	2	2	2	1	1	
Topography:	1	1	1	2	1	1	2	2	1	1	2	
<b>Count #1 Data:</b>												
Date Collected:	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	
Time Period:	7-9am	1	1	1	1	1	1	1	1	1	1	
Weather:	3	3	3	3	3	3	3	3	3	3	3	
Bicycles:	40	53	25	19	0	6	17	6	1	0		
Pedestrians:	334	228	156	163	15	82	42	52	7	6		
Other:	0	0	0	0	0	0	0	0	0	0		
<b>Count #2 Data:</b>												
Date Collected:	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	9/8/09	
Time Period:	4-6pm	3	3	3	3	3	3	3	3	3	3	
Weather:	3	3	3	3	3	3	3	3	3	3	3	
Bicycles:	39	52	18	16	4	14	13	38	6	1	12	
Pedestrians:	385	341	189	177	54	130	41	124	5	6	36	
Other:	0	0	0	0	0	0	0	0	0	0	0	

NASHVILLE AREA  
METROPOLITAN PLANNING ORGANIZATION

NATIONAL BICYCLE AND PEDESTRIAN DOCUMENTATION PROGRAM						
BACKGROUND DATA SHEET						
Agency/Organization:	Nashville Area Metropolitan Planning Organization					
ID #:	Enter here					
Date sheet completed:	Enter here					
<b>Contact Information:</b>	<a href="http://www.nashvillempo.org">www.nashvillempo.org</a>					
Lead Person Name	Leslie Meehan					
Address	800 Second Avenue South, Nashville, TN 37201					
E-mail	<a href="mailto:Leslie.Meehan@nashville.gov">Leslie.Meehan@nashville.gov</a>					
Phone	615-862-7211					
<b>General Area Background:</b>	<u>Local Community</u>	<u>County</u>	<u>Region</u>			
Name of jurisdiction(s):		Rutherford	Nashville Area MPO			
If County or Region, number of local agencies:						
Source of demographic data:	US Census 2000					
Year of data:	2009					
Population:	249,270					
Density (people per square mile):	403					
Bicycle Mode Share: US Journey to Work	0.11%					
Pedestrian Mode Share: US Journey to Work	1.28%					
Average Age:	32.1					
Average Income:	\$ 23,635					
Number of annual visitors to area:	11,500,000					
<b>Count Location Description:</b>	<u>Loc. #1</u>	<u>Loc. #2</u>	<u>Loc. #3</u>			
Type of facility:	5	1	7			
Type of setting:	2	2	2			
Scenic Quality:	2	1	2			
Surrounding land uses:	1	2	1			
Schools, parks, visitor destinations within 1 mile:	2	1	2			
Quality of connecting facilities:	1	4	3			
Length of facility:	4	3	6			
Access:	1	3	4			
Quality of overall network:	1	3	3			
Traffic volumes (ADT):	4	1	4			
Traffic speeds (posted):	3	1	2			
Crossings and intersections:	3	5	2			
Crossings and intersection traffic:	2	1	3			
Crossings and intersection protection:	1	3	3			
Condition	2	2	2			
Topography:	1	1	1			
<b>Count #1 Data:</b>						
Date Collected:	9/8/09	9/8/09	9/8/09			
Time Period:	7-9am	1	1	1		
Weather:		3	3	3		
Bicycles:		3	15	13		
Pedestrians:		6	70	34		
Other:		0	0	1		
<b>Count #2 Data:</b>						
Date Collected:	9/8/09	9/8/09	9/8/09			
Time Period:	4-6pm	3	3	3		
Weather:		3	3	3		
Bicycles:		2	2	17		
Pedestrians:		29	53	24		
Other:		0	0	3		

NASHVILLE AREA  
METROPOLITAN PLANNING ORGANIZATION

NATIONAL BICYCLE AND PEDESTRIAN DOCUMENTATION PROGRAM						
BACKGROUND DATA SHEET						
Agency/Organization:	Nashville Area Metropolitan Planning Organization					
ID #:	Enter here					
Date sheet completed:	Enter here					
<b>Contact Information:</b>	<a href="http://www.nashvillempo.org">www.nashvillempo.org</a>					
Lead Person Name	Leslie Meehan					
Address	800 Second Avenue South, Nashville, TN 37201					
E-mail	<a href="mailto:Leslie.Meehan@nashville.gov">Leslie.Meehan@nashville.gov</a>					
Phone	615-862-7211					
<b>General Area Background:</b>	<u>Local Community</u>	<u>County</u>	<u>Region</u>			
Name of jurisdiction(s):			Sumner	Nashville Area MPO		
If County or Region, number of local agencies:						
Source of demographic data:	US Census 2000					
Year of data:	2009					
Population:	155,474					
Density (people per square mile):	294					
Bicycle Mode Share: US Journey to Work	0.13%					
Pedestrian Mode Share: US Journey to Work	1.25%					
Average Age:	37.5					
Average Income:	\$25,135					
Number of annual visitors to area:	11,500,000					
<b>Count Location Description:</b>	<u>Loc. #1</u>	<u>Loc. #2</u>	<u>Loc. #3</u>			
Type of facility:	5	1	6			
Type of setting:	2	3	3			
Scenic Quality:	2	1	1			
Surrounding land uses:	3	2	1			
Schools, parks, visitor destinations within 1 mile:	2	3	2			
Quality of connecting facilities:	1	1	1			
Length of facility:	2	3	3			
Access:	1	2	1			
Quality of overall network:	1	1	1			
Traffic volumes (ADT):	3	1	1			
Traffic speeds (posted):	2	1	1			
Crossings and intersections:	2	5	3			
Crossings and intersection traffic:	3	1	4			
Crossings and intersection protection:	1	3	1			
Condition	2	2	1			
Topography:	1	1	1			
<b>Count #1 Data:</b>						
Date Collected:	9/8/09	9/8/09	9/8/09			
Time Period:	7-9am	1	1	1		
Weather:		3	3	3		
Bicycles:		2	3	0		
Pedestrians:		14	42	1		
Other:		0	0	0		
<b>Count #2 Data:</b>						
Date Collected:	9/8/09	9/8/09	9/8/09			
Time Period:	4-6pm	3	3	3		
Weather:		3	3	3		
Bicycles:		2	7	8		
Pedestrians:		40	46	3		
Other:		0	0	0		

NASHVILLE AREA  
METROPOLITAN PLANNING ORGANIZATION

NATIONAL BICYCLE AND PEDESTRIAN DOCUMENTATION PROGRAM						
BACKGROUND DATA SHEET						
Agency/Organization:	Nashville Area Metropolitan Planning Organization					
ID #:	Enter here					
Date sheet completed:	Enter here					
<b>Contact Information:</b>	<a href="http://www.nashvillempo.org">www.nashvillempo.org</a>					
Lead Person Name	Leslie Meehan					
Address	800 Second Avenue South, Nashville, TN 37201					
E-mail	<a href="mailto:Leslie.Meehan@nashville.gov">Leslie.Meehan@nashville.gov</a>					
Phone	615-862-7211					
<b>General Area Background:</b>	<u>Local Community</u>	<u>County</u>	<u>Region</u>			
Name of jurisdiction(s):	Williamson		Nashville Area MPO			
If County or Region, number of local agencies:						
Source of demographic data:	US Census 2000					
Year of data:	2009					
Population:	171,452					
Density (people per square mile):	294					
Bicycle Mode Share: US Journey to Work	0.06%					
Pedestrian Mode Share: US Journey to Work	0.85%					
Average Age:	37.4					
Average Income:	\$41,383					
Number of annual visitors to area:	11,500,000					
<b>Count Location Description:</b>	<u>Loc. #1</u>	<u>Loc. #2</u>	<u>Loc. #3</u>			
Type of facility:	5	7	1			
Type of setting:	2	2	2			
Scenic Quality:	2	3	1			
Surrounding land uses:	1	3	1			
Schools, parks, visitor destinations within 1 mile:	2	1	3			
Quality of connecting facilities:	1	3	2			
Length of facility:	5	6	2			
Access:	2	4	3			
Quality of overall network:	1	2	2			
Traffic volumes (ADT):	4	4	4			
Traffic speeds (posted):	3	3	3			
Crossings and intersections:	3	2	5			
Crossings and intersection traffic:	4	4	1			
Crossings and intersection protection:	1	3	3			
Condition	1	2	2			
Topography:	2	2	1			
<b>Count #1 Data:</b>						
Date Collected:	9/8/09	9/8/09	9/8/09			
Time Period:	7-9am	1	1	1		
Weather:		3	3	3		
Bicycles:		6	2	22		
Pedestrians:		0	6	154		
Other:		0	0	0		
<b>Count #2 Data:</b>						
Date Collected:	9/8/09	9/8/09	9/8/09			
Time Period:	4-6pm	3	3	3		
Weather:		3	3	3		
Bicycles:		4	4	41		
Pedestrians:		0	15	148		
Other:		0	0	4		

NASHVILLE AREA  
METROPOLITAN PLANNING ORGANIZATION

NATIONAL BICYCLE AND PEDESTRIAN DOCUMENTATION PROGRAM						
BACKGROUND DATA SHEET						
Agency/Organization:	Nashville Area Metropolitan Planning Organization					
ID #:	Enter here					
Date sheet completed:	Enter here					
<b>Contact Information:</b>	<a href="http://www.nashvillempo.org">www.nashvillempo.org</a>					
Lead Person Name	Leslie Meehan					
Address	800 Second Avenue South, Nashville, TN 37201					
E-mail	<a href="mailto:Leslie.Meehan@nashville.gov">Leslie.Meehan@nashville.gov</a>					
Phone	615-862-7211					
<b>General Area Background:</b>	<u>Local Community</u>	<u>County</u>	<u>Region</u>			
Name of jurisdiction(s):	Wilson			Nashville Area MPO		
If County or Region, number of local agencies:						
Source of demographic data:	US Census 2000					
Year of data:	2009					
Population:	109,803					
Density (people per square mile):	192					
Bicycle Mode Share: US Journey to Work	0.04%					
Pedestrian Mode Share: US Journey to Work	0.81%					
Average Age:	37.4					
Average Income:	\$23,897					
Number of annual visitors to area:	11,500,000					
<b>Count Location Description:</b>	<u>Loc. #1</u>	<u>Loc. #2</u>	<u>Loc. #3</u>			
Type of facility:	7	6	4			
Type of setting:	2	2	2			
Scenic Quality:	2	1	2			
Surrounding land uses:	1	1	3			
Schools, parks, visitor destinations within 1 mile:	3	2	3			
Quality of connecting facilities:	2	1	2			
Length of facility:	1	1	4			
Access:	1	1	2			
Quality of overall network:	1	1	2			
Traffic volumes (ADT):	3	2	4			
Traffic speeds (posted):	2	5	3			
Crossings and intersections:	2	2	3			
Crossings and intersection traffic:	2	2	4			
Crossings and intersection protection:	1	2	2			
Condition	2	1	2			
Topography:	1	1	1			
<b>Count #1 Data:</b>						
Date Collected:	9/8/09	9/8/09	9/8/09			
Time Period:	7-9am	1	1	1		
Weather:	3	3	3			
Bicycles:	2	4	0			
Pedestrians:	5	48	3			
Other:	0	0	0			
<b>Count #2 Data:</b>						
Date Collected:	9/8/09	9/8/09	9/8/09			
Time Period:	4-6pm	3	3	3		
Weather:	3	3	3			
Bicycles:	7	11	1			
Pedestrians:	1	51	3			
Other:	0	0	0			