

# Maintaining and Contributing to North Carolina's Non-Motorized Volume Data Program Workshop

NCDOT Sponsored Project

ITRE Workshop June 29, 2015 at NCSU

Contact:

Sarah O'Brien, ITRE

[skworth@ncsu.edu](mailto:skworth@ncsu.edu)

**Purpose:** To develop average daily traffic volumes (AADT) for non-motorized data (bike & Ped) and building a non-motorized data program

**Background:** Want a win-win for local needs

- Volumes help you get your funding
- Challenges to non-motorized volume counting-data not consistent
- Need a standardized method in NC to be useful
- Battling bike & ped having lower priority, will have some sort of performance measures
- Will help to rank and justify projects

**2 Types of Counts required to create AADT:**

- **Short Duration Count**-important because it helps to understand all of the pieces, 7 days are recommended, need day of week, hour of day, month of year (maybe not enough \$ for continuous count)
- **Continuous Count Stations**-day of week day of month

**With counts are able to discern:**

- Directional patterns
- Time of day
- Weather
- Commuter patterns
- Day of week patterns
- Seasonal patterns

**Types of Counters**(type of counter varies depending on whether short duration or continuous or if you are counting bikes or peds:

- Manual
- Infrared sensor
- Inductive loop detectors
- Magnetic Sensors
- Pressure sensors
- Pneumatic tubes

## Project Time Table

**Pilot Project-Phase I, started in 2013:** Divisions 7 & 9, with 13 sites for continuous counts, ITRE group worked with Dale McKeel at DCHC.

One of collection sites on MLK Blvd, in Chapel Hill-noticed a strange peak about 1-2am-was when the bars closed .

**Next Phase-Phase II**-to expand out from pilot area to Divisions 4,5,8,10 (20 counties)

**Want our help in gathering potential sites for these divisions-things like:**

- Pedestrian and bicycle activity areas or corridors
- Key corridors that can be used to gauge impacts of future improvements
- Where counts have been conducted historically
- Use our local knowledge

**Phase II Field visits by ITRE staff for likely sites** we have selected, Fall 2015

**Spring 2016-** Install Phase II CCSs

**Spring/Summer 2017** –AADT Statistics produced for Phase II

**Fall 2017-Final ITRE report for Phase I and II**, deliverable to NCDOT

**Resources on how to collect data:**

- **Traffic Monitoring Guide, FHWA 2013.** Chapter 4 is on non-motorized data  
<http://www.fhwa.dot.gov/policyinformation/tmguide/>
- **Guidebook to Pedestrian and Bicycle Volume Data Collection- NCHRP Report 797** (National Cooperative Highway Research Program) <http://www.trb.org/Main/Blurbs/171973.aspx>