Online Non-motorized Traffic Count Archive

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Portland State University

Liz Stolz, Sprinkle Consulting
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- National Institute for Transportation and Communities (a national UTC)
- Oregon Department of Transportation
- FHWA
- City of Boulder, CO
- City of Eugene, OR / Lane Council of Governments
- City of Austin, TX
- Bend, OR / Jackson County
- Cycle Oregon
- Metro (Portland MPO)
Agenda

• Project Overview
• Project Scope
• Progress
• Next Steps
Proposal Overview
The Problem

Cities and Counties
Ped/Bike counts live here and die here.

State Agencies
Some ped/bike counts live here.

Federal (FHWA)
No ped/bike counts live here.
The Solution

Cities and Counties

Ped/bike counts

State Agencies

Ped/bike counts

Federal (FHWA)

TMAS
Existing Clearinghouses

• Central Lane Metropolitan Planning Organization
• Portland (Portal)
• Delaware Valley Regional Planning Commission (DVRPC)
• LA Metro
• Arlington
• Austin
• Seattle
• Boulder
Regional Bicycle Count Program

The Central Lane Metropolitan Planning Organization (CLMPO) recently began a Regional Bicycle Count Program (RBCP) in fall of 2012 using the experience gained from preliminary testing done during the summer. Count data collection and data storage and processing protocols were established that will make ongoing data collection more efficient and seamless. Count locations for the RBCP were selected using local knowledge in collaboration with local agency partners as well as data collected through travel survey and a smart phone application.

Read the full report

Download daily data in .csv format
Download hourly data in .csv format

Explore the map below on a full web page

[Tips: hover the mouse pointer over a location to read the counts, pull down the menu “Basic Background” to access the map layers showing the different data collection seasons]
Portland
## DVRPC - Pedestrian Count

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**Pedestrian Seasonal Factor:** 1.003  **Factor:** 1.0622  **ADP:** 512
Welcome to the Bike Count Data Clearinghouse!

What is the Bike Count Data Clearinghouse?

The Bike Count Data Clearinghouse is a one-stop repository for bicycle count data throughout LA County and beyond. This tool allows users to easily view, query, and download bicycle count volumes. Bicycle count data collected in Los Angeles County prior to December 2012 is already loaded into the clearinghouse. Going forward, local agencies throughout the Southern California Association of Governments (SCAG) region and beyond can upload their count data to the clearinghouse website.

The goal of this collaborative effort is to streamline and enhance the use of count data in active transportation planning and policy.

SCAG has also developed a bicycle count training manual, which provides guidance and standardized methodologies that municipalities, nonprofits, and consultants should use when conducting bicycle and pedestrian counts. As an additional component of the Bike Count Data Clearinghouse effort, SCAG assessed the potential for bicycle counts to inform and validate travel demand modeling, as well as estimations of reductions in emissions.

This project is co-sponsored by SCAG and the Los Angeles County Metropolitan Transportation Authority (Metro).

Contact: BikeClearinghouse@luskin.ucla.edu

Bike Count Data Clearinghouse Project Documents

1) Conducting Bicycle and Pedestrian Counts: A Manual for Jurisdictions in Los Angeles County and Beyond
2) Recommended Count Form - Supervisor Form
3) Recommended Count Form - Tally Form
4) Literature Review
5) Bike Counts, Travel Demand Modeling, and Benefits Estimation: a White Paper
6) Union Station Bike Count Report

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Why aggregate the data?

Data are worth more together than alone.
Vision: Online Count Data Archive

Qualities of the Archive:
- Cross Jurisdictional
- Online Input in Multiple Formats
- Manual and Automated Data
- Online Data Output
Technical Presentation & Discussion
Tasks
1. Review the State of the Practice
2. Establish Non-motorized Data Collection Methods and Formats Used by Partner Agencies
3. Develop an Online Tool
4. Stakeholder Engagement
5. Research Deployment
1. Review the State of the Practice

- Assessment
- Inventory Existing Data Formats
- Inventory Existing Datasets
Data Types

Hard copy data and other data in diverse formats.

TRAFx and other data in standard formats.

EcoCounter data.

Tier 2

Tier 3

Tier 4

Data already in the correct format.
2. Establish Non-motorized Data Collection Methods and Formats Used by Partner Agencies

- Data Collection
- Formatting Data
- QA/QC
3. Develop an Online Tool

• Functional Requirements
• Software Development
  – Input Tool
  – QA/QC Tool
  – Output Tool
  – Archive Documentation and Metadata

Keep it simple and robust!
Progress
Advisory Committee Survey

• Surveyed Technical Advisory Committee members
  – Clear preference for automated count data (>24-hrs)
  – Still want to allow shorter counts, but with lower data quality ranking
  – Need to integrate other data (weather, landuse)
Developing Schema

- Focusing on automated counts on roads/paths
- Including some facility information
- Developing user interface for inputting station and counter data
- Preparing test data
Data Processing

• 2 Interns working on formatting difficult data
Next Steps
Next Steps

- Present to Advisory Committee at end of July
- Iterative software development process
  - Develop web-based user input
  - Populate database
  - Quality Control
  - Data Output
    - Map
    - Graph
    - API
STAY TUNED!