Baltimore Regional Transportation Board

Regional Bicycle and Pedestrian Counts

BPAG

January 17, 2024

BMC

Regional Bicycle and Pedestrian Count Program

- **Weeklong counts conducted throughout the region on a project specific basis**
- **Before/after counts**
  - Measures the affect of infrastructure improvements on active transportation use
- **Potential permanent counter locations**
  - Measures active transportation use to assist in permanent counter site selection
- **Safety assessments**
  - Measures active transportation use which can be used to quantify exposure and develop crash rates as part of safety analysis

Why Count?

- **Quantitative data for bicycle and pedestrian planning is increasingly important to support performance-based approaches**
- **Assist in understanding the role bicyclists and pedestrians play in transportation network**
- **Support regional, local, and state planning activities:**
  - Inform the public and decision makers about actual usage and travel patterns
  - Track and analyze travel trends
  - Plan for new or improved facilities
  - Measure impacts of specific projects (before and after)
  - Support funding applications
  - Increase understanding of safety concerns and exposure rates

Regional Bicycle and Pedestrian Count Program Goals

- Inform prioritization of bike/ped improvements
- Track before/after volumes in locations with improvements
- Determine user type (commuter, recreational, mix)
- Assist in the selection of continuous count locations
- Contribute to statewide bike/ped count database

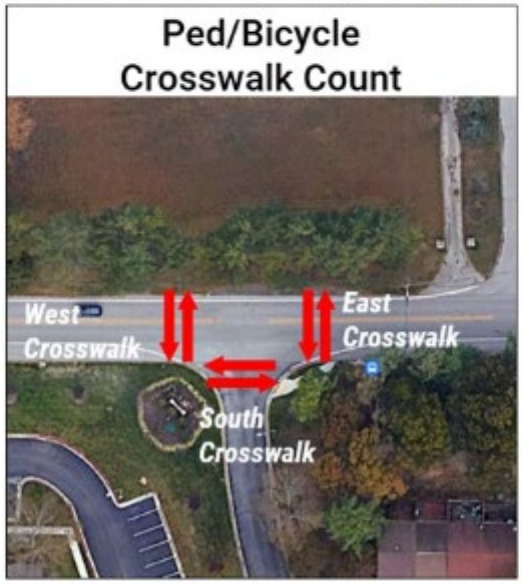
Count Technology

- **Technology**
  - Scout Video Units (SVU)/MioVision Non-Intrusive and power packs
  - Mount to pole or tree
  - Cannot attach to u-channel poles, speed cameras, ped crossing, traffic signal poles
  - Telescopic arms lifts the camera
- **Data Limitations**
  - Rain can obscure data collection
  - Daylight/illuminated area at night required
- **Data Reliability**
  - Data reviewed by person at 2-3x speed, spot checked by 2-3 people

Regional Bicycle and Pedestrian Counts

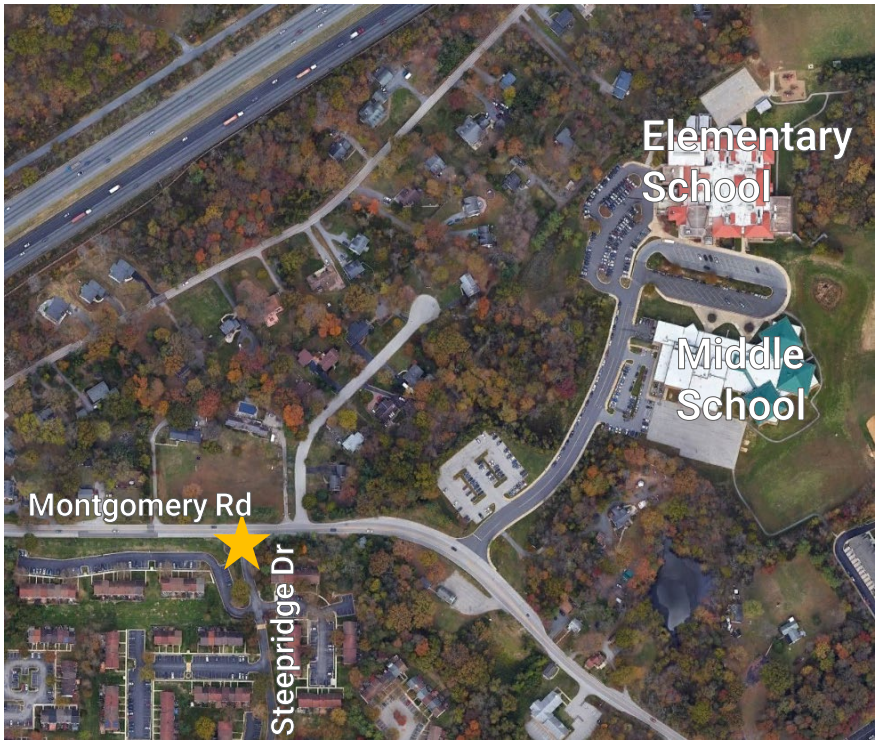
- **Data Collection**
  - Directional volume
  - User type - bicyclist, pedestrian, scooter user
  - Helmet usage
  - Mid-block crossing
- **Final Product**
  - Data in the same format as MDOT counts
  - Aerial view interactive PDF
  - RAW video files
- **Count Duration and Cost**
  - One day
  - Two day
  - Seven day

Example Count Types



Howard County: Montgomery Road at Steepridge Drive

- **Before/After Count**
  - Spring 2022
  - Infrastructure improvements
  - Fall 2023
- **Description**
  - New sidewalk installed on both sides of Montgomery Rd between Rowanberry Dr and Timberlee Rd
  - New pedestrian crossing on Montgomery Rd with refuge island just west of Steepridge Dr
- **Purpose**
  - Quantify change in bicycle and pedestrian volumes after implementation of new sidewalks and pedestrian crossing



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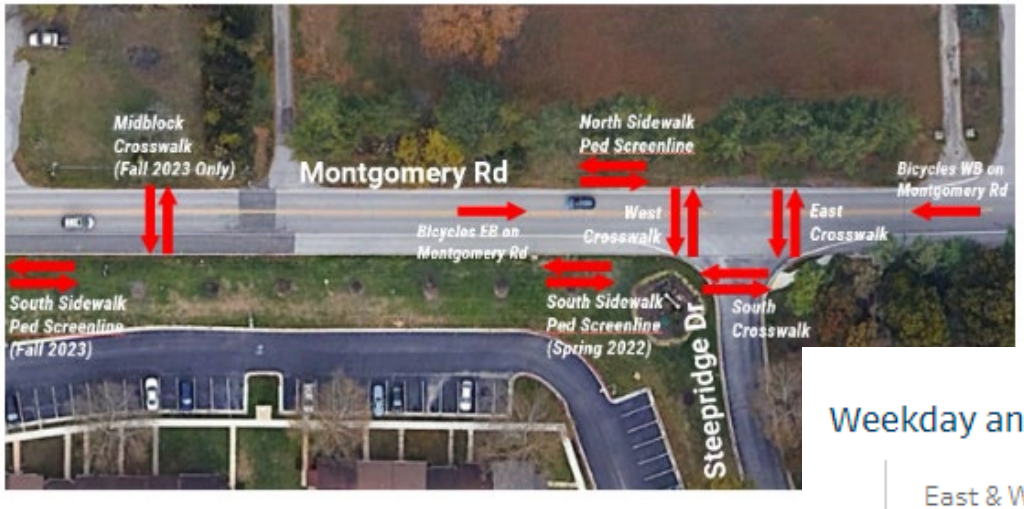
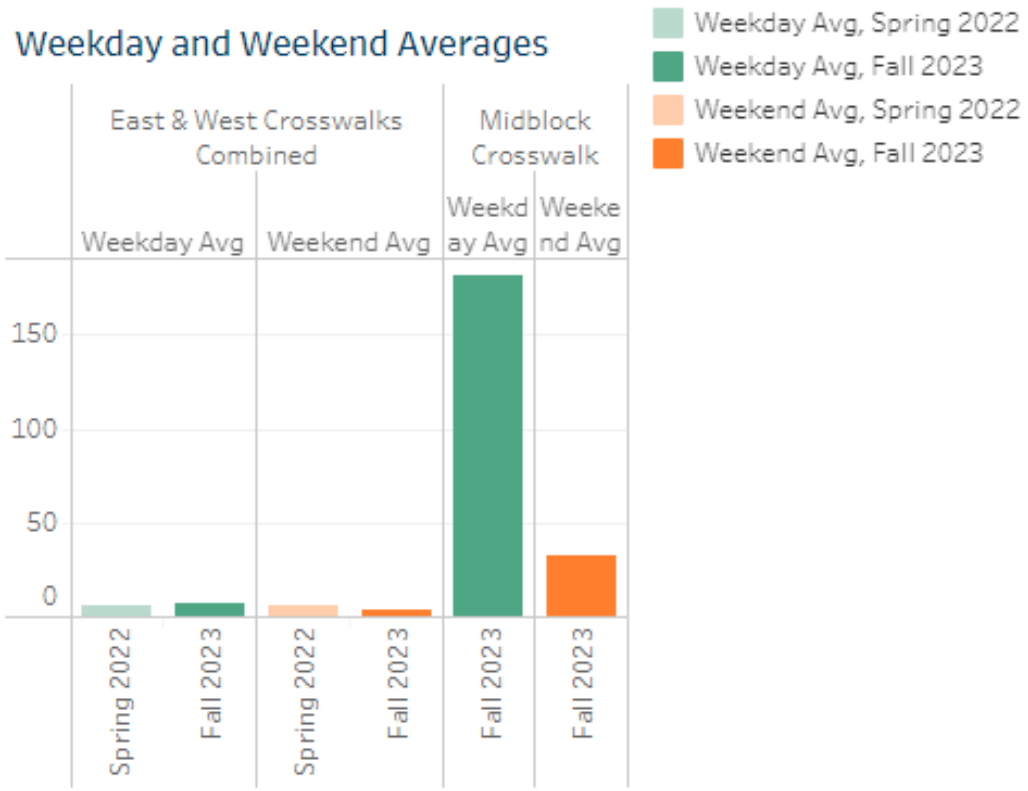


[Additional analysis of the data]



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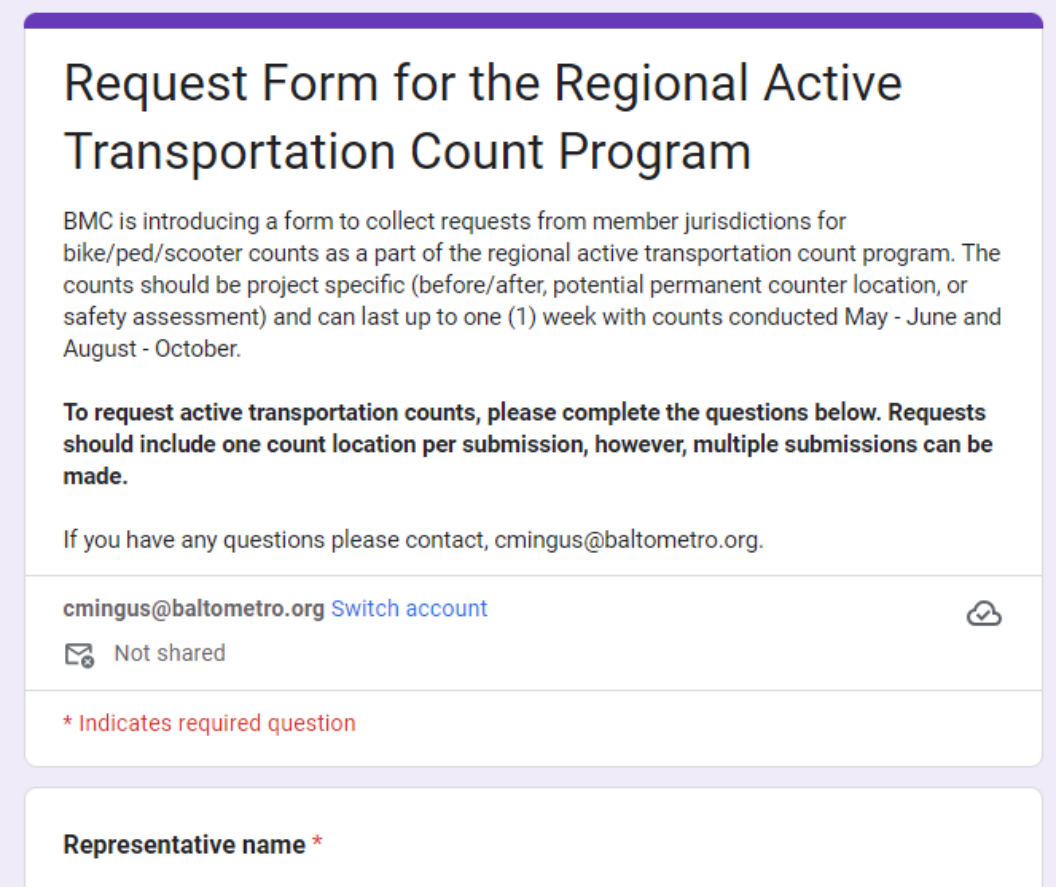
Count Request Form

- Submission Form



Request Form for the Regional Active Transportation Count Program

BMC is introducing a form to collect requests from member jurisdictions for bike/ped/scooter counts as a part of the regional active transportation count program. The counts should be project specific (before/after, potential permanent counter location, or safety assessment) and can last up to one (1) week with counts conducted May - June and August - October.

To request active transportation counts, please complete the questions below. Requests should include one count location per submission, however, multiple submissions can be made.

If you have any questions please contact, cmingus@baltometro.org.

cmingus@baltometro.org Switch account

Not shared

* Indicates required question

Representative name *

Next Steps

January - March	Local jurisdictions submit count locations
April	Spring 2024 count locations reviewed and selected
May - June	Counts held
July	Consultant processes count data and delivers to BMC
July - August	BMC reviews and analyzes data
	Data and analysis provided to local jurisdictions

For More Information

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