

**From:** SHOEMAKER Justin D  
**To:** Gaoying Vigoa; Alex Campbell; yalrashdi@rvcoq.org  
**Cc:** ROBERTS Thomas D \* Dan  
**Subject:** RE: CMAQ POLLUTANTS REDUCTION  
**Date:** Friday, May 30, 2025 8:33:45 AM  
**Attachments:** image001.png

Justin Shoemaker  
Region 3 – Transportation Project Manager  
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**From:** Gaoying Vigoa <gvigoa@cityoftalent.org>  
**Sent:** Wednesday, May 28, 2025 2:59 PM  
**To:** SHOEMAKER Justin D <Justin.D.SHOEMAKER@odot.oregon.gov>; Alex Campbell <acampbell@cityoftalent.org>; yalrashdi@rvcoq.org  
**Cc:** ROBERTS Thomas D \* Dan <Thomas.D.ROBERTS@odot.oregon.gov>  
**Subject:** CMAQ POLLUTANTS REDUCTION

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Hi Justin,

Using the tool I have derived these data:

## Bicycle and Pedestrian Improvements

This calculator will estimate the reduction in emissions resulting from improvements to bicycle and pedestrian infrastructure and associated mode shift from passenger vehicles to bicycling or walking, including but not limited to sidewalks, dedicated bicycle infrastructure, improved wayfinding, mid-block crossing installations, bike share systems, and bike parking improvements.

INPUT

User Guide

(1) What is your project evaluation year?

2025

Reset Interface

(2) Estimate the shift in daily motorized passenger vehicle trips to non-motorized travel due to the bicycle and pedestrian project.

Daily Passenger Vehicle Trips

Before	After	Change
9504	9254	250

(3a) Select the data type used for entering the typical one-way trip distance of passenger vehicles below:

Trip Distance Source

Average

< Fill National Values

(3b) If you selected "Average" above, enter the typical one-way trip distance. If you selected "Distribution" above, enter the typical distribution of one-way trip distances.

Typical Trip Distance  
(miles one way)

1.3

Distribution of Trip Distances (daily fraction per mileage bin)

x < 1	1 ≤ x < 2	2 ≤ x < 3	3 ≤ x < 4	4 ≤ x ≤ 5	Sum

OUTPUT


Calculate Output

EMISSION REDUCTIONS

Pollutant	Total	*Units in kg/day unless otherwise noted
Carbon Monoxide (CO)	1.119	
Particulate Matter ≤2.5 μm (PM <sub>2.5</sub> )	0.004	
Particulate Matter ≤10 μm (PM <sub>10</sub> )	0.015	
Nitrogen Oxides (NOx)	0.057	
Volatile Organic Compounds (VOC)	0.045	
Carbon Dioxide (CO <sub>2</sub> )	119.306	
Carbon Dioxide Equivalent (CO <sub>2</sub> e)	120.086	
Total Energy Consumption (MMBTU/day)	1.613	

Please let me know if you have any questions.

Best Regards,



**Gaoying Zhang Vigoa**  
**P.E.**  
**Public Works Director**  
**City of Talent**  
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