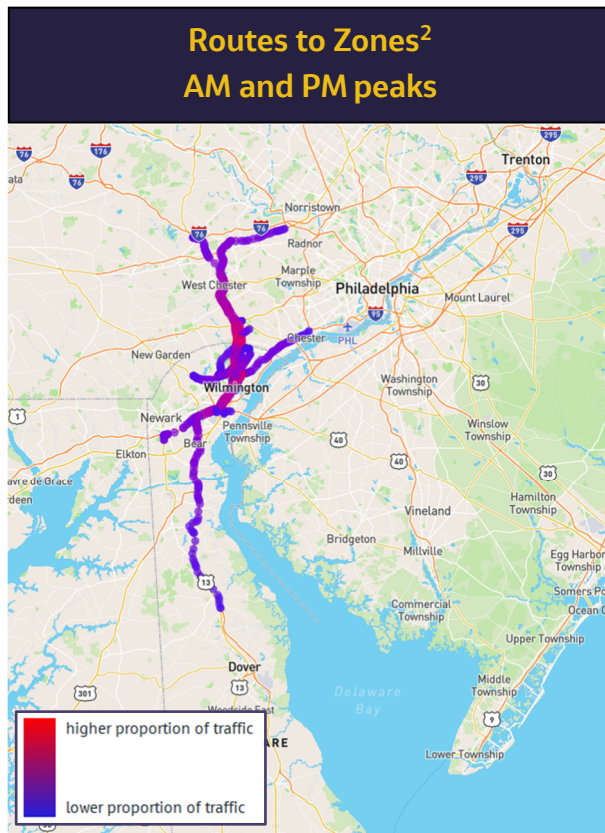


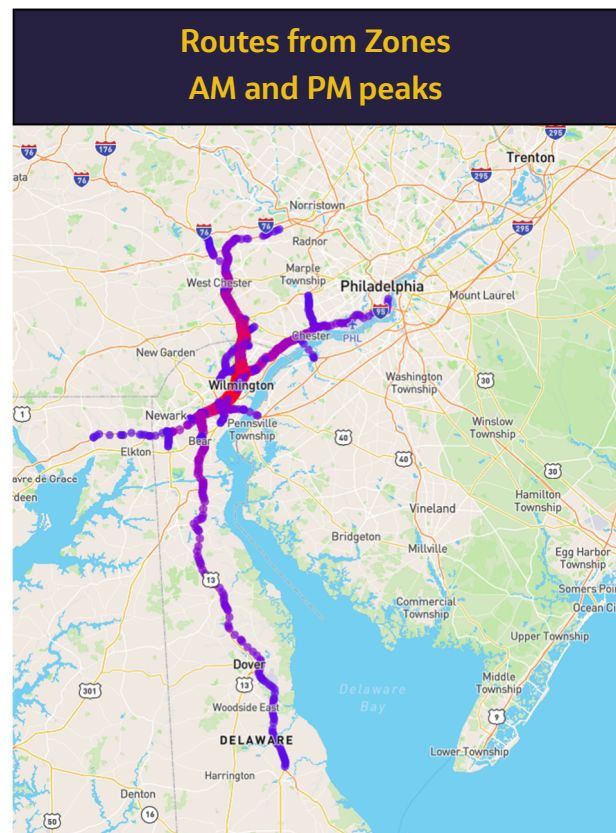
# US 202 BETWEEN PA AND I-95

## Origin-destination travel pattern analyses<sup>1</sup>

The congestion management process (CMP) corridor for US 202, also known as Concord Pike, is made up of a 5.1 mile stretch of US 202 from the Pennsylvania state border to I-95. This area is known by Delawareans and their neighbors to the north for its shopping centers. More recently it has also been the center of mixed-use residential development projects. Additionally, US 202 serves as one of the primary points of access to I-95 for traffic originating in Pennsylvania. Nearly fifty percent of all jobs along the corridor come from the “wholesale, retail, transportation and utilities” and “health and education” employment categories, and 79.3% of American Community Survey respondents in the area said they use a single occupancy vehicle to bring them to work. US 202 is a core Transportation Investment Area for WILMAPCO, and understanding the travel patterns in and around the CMP corridor will help to prioritize studies and investments for the area.



During weekday peak hours, US 202 serves both local and regional traffic. Vehicles come from as far as Smyrna, DE along SR 1 from the south, Newark, DE from the west, I-476 from the east via I-95, and King of Prussia to the north.



During weekday AM and PM peak hours, travel patterns from the US 202 are similar to those traveling to the area; however, we can see that travelers continue further along regional roads.

<sup>1</sup> Data used in origin-destination analyses is StreetLight InSight® aggregated GPS data from 9/1/23-8/31/24

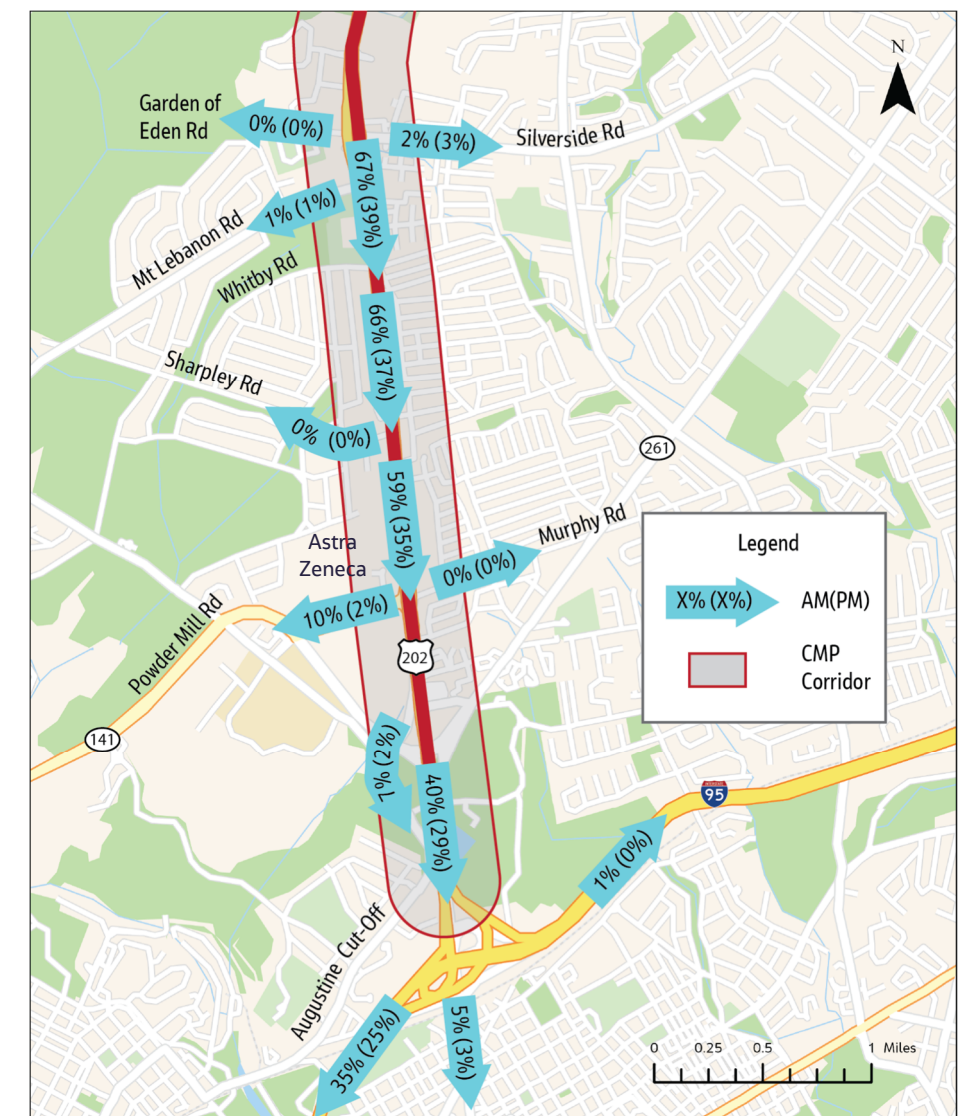
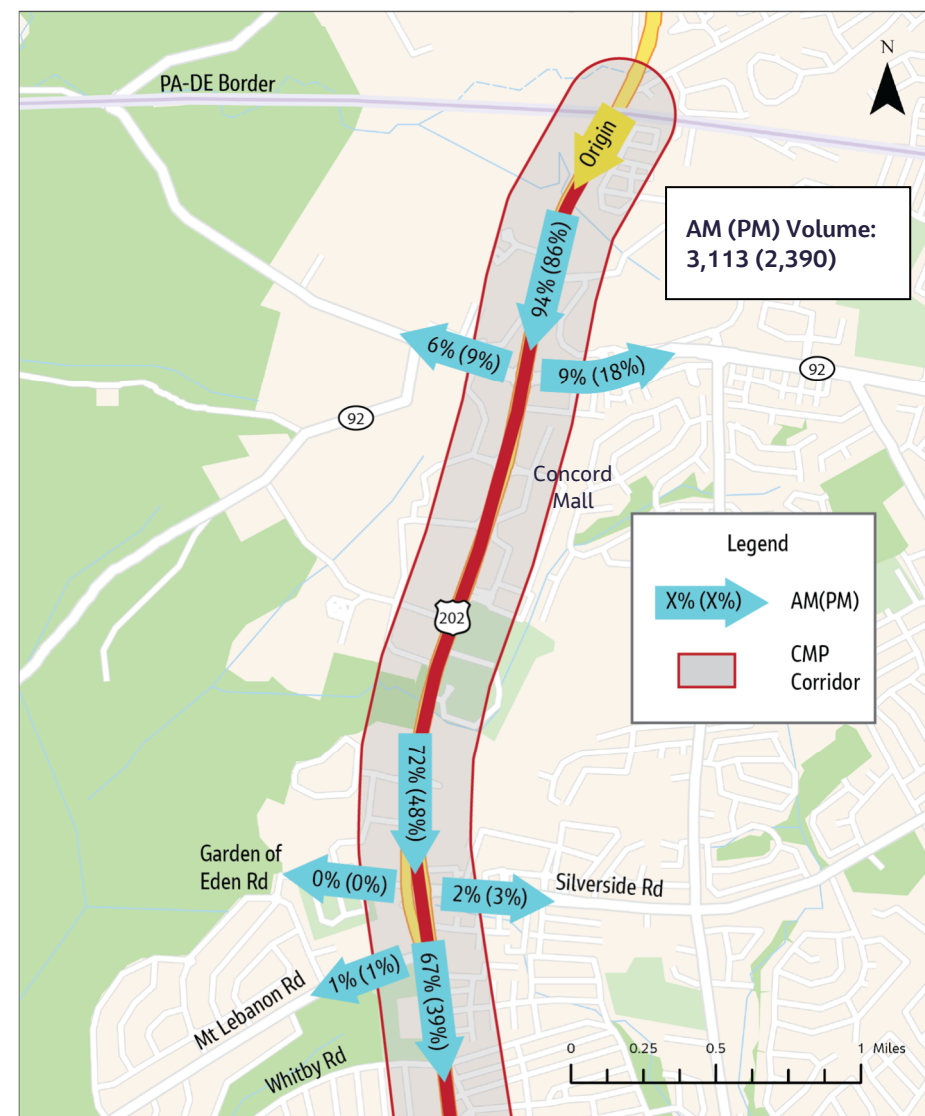
<sup>2</sup> Data used in top routes for zones analysis is StreetLight InSight® Connected Vehicle data from 6/1/22-5/31/23

# US 202 SOUTHBOUND – WEEKDAYS (TUES-THURS)

## US 202 from south of PA border to I-95

### Key Takeaways

- **AM peak period (7 AM – 9 AM) volumes are approximately 30% higher** than the PM peak period (4 PM – 6 PM) volumes.
- US 202 southbound provides a critical connection to the interstate system.
  - Approximately **40% of AM peak and 29% of PM peak southbound traffic reach the I-95 interchange area**. These percentages represent the proportion of southbound traffic crossing the PA border that use US 202 as a regional bypass.
  - During both peaks approximately 88% of the traffic that reaches the I-95 interchange turns onto I-95 southbound.
- Over **half of PM peak travelers exit off US 202 prior to reaching the Garden of Eden Rd/Silverside Rd intersection**. This is compared to 28% of travelers during the AM peak. Shopping areas such as the Concord Mall and the Brandywine Town Center are likely destinations for the PM peak traffic.
- Travelers proceeding beyond the DE 92/Naamans Road intersection are most likely to either end their trip at a place of work/retail area located alongside US 202 or continue to I-95. Relatively small percentages of people are seen turning off the corridor and continuing their trips on other roadways.



Peak Period	Origin	Destination											
		DE 92 WB West of US 202	DE 92 EB East of US 202	Garden of Eden Rd WB	Silverside Rd EB	Mount Lebanon Road WB	Sharpley Rd WB	Murphy Rd EB	Powder Mill Rd Ext WB	Augustine Cut Off	I-95 SB	I-95 NB	US 202 SB South of I-95
AM (7 AM - 9 AM)	US 202 South of PA State Line	6.4%	8.9%	0.1%	1.9%	0.9%	0.1%	0.2%	9.7%	7.1%	34.9%	0.5%	4.5%
PM (4 PM - 6 PM)	US 202 South of PA State Line	9.0%	17.6%	0.3%	3.0%	1.2%	0.1%	0.4%	1.9%	2.2%	25.4%	0.4%	3.1%

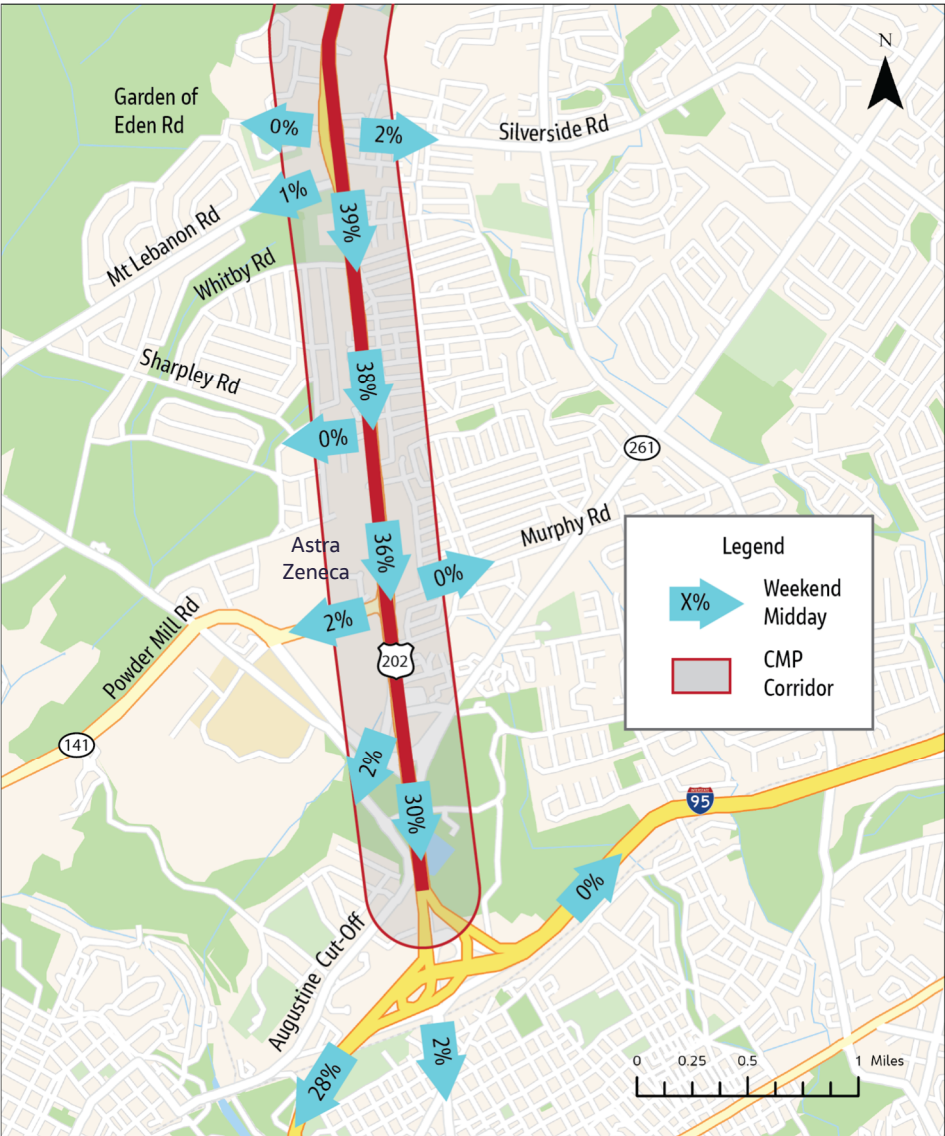
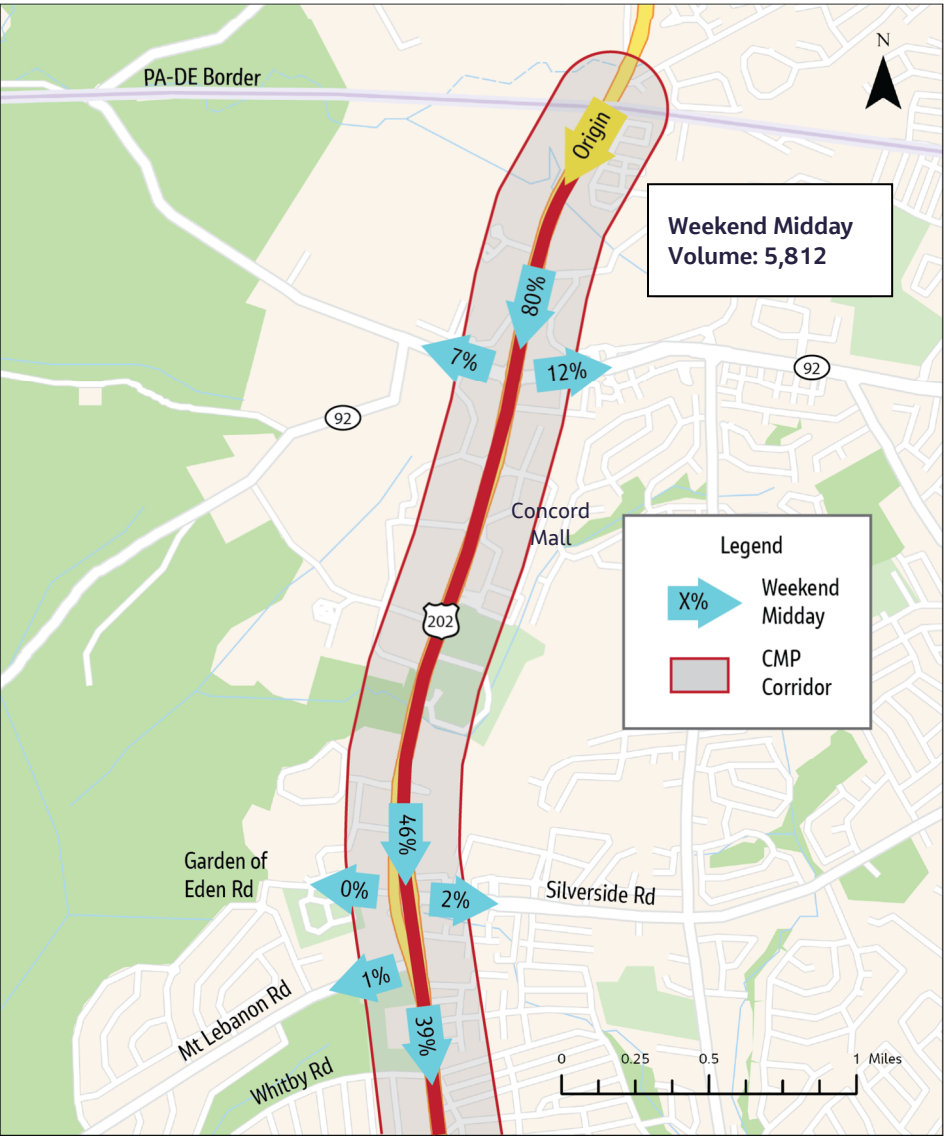


# US 202 SOUTHBOUND – WEEKENDS (SAT-SUN)

## US 202 from south of PA border to I-95

### Key Takeaways

- 20% of weekend midday (10 AM – 3 PM) southbound traffic is bound for shopping areas north of DE 92 like the Brandywine Town Center.
- An additional 19% of traffic turns off US 202 at the DE 92 intersection. 7% of traffic turns right onto DE 92 westbound, and 12% of traffic turns left onto DE 92 eastbound.
- Similar to the PM peak, slightly over 50% of traffic finds its destination prior to reaching the intersection of Garden of Eden Rd/Silverside Rd. This indicates retail shopping is a significant driver of traffic during the weekend midday peak.
- US 202 remains as a critical connection to I-95 southbound on weekends. Approximately 30% of US 202 traffic crossing the Pennsylvania border into Delaware reaches the I-95 interchange. 28% of southbound traffic continues onto I-95 southbound, or 93% of the southbound traffic that reaches the I-95 interchange.
  - Since just 39% of traffic continues beyond Mt Lebanon Rd, approximately 75% of traffic proceeding beyond Mt Lebanon Rd reaches the I-95 interchange. The difference in traffic patterns north and south of Mt Lebanon Rd is more drastic than during the weekday AM peak, likely due to the outsized influence of retail shopping in the northern portion of the corridor.



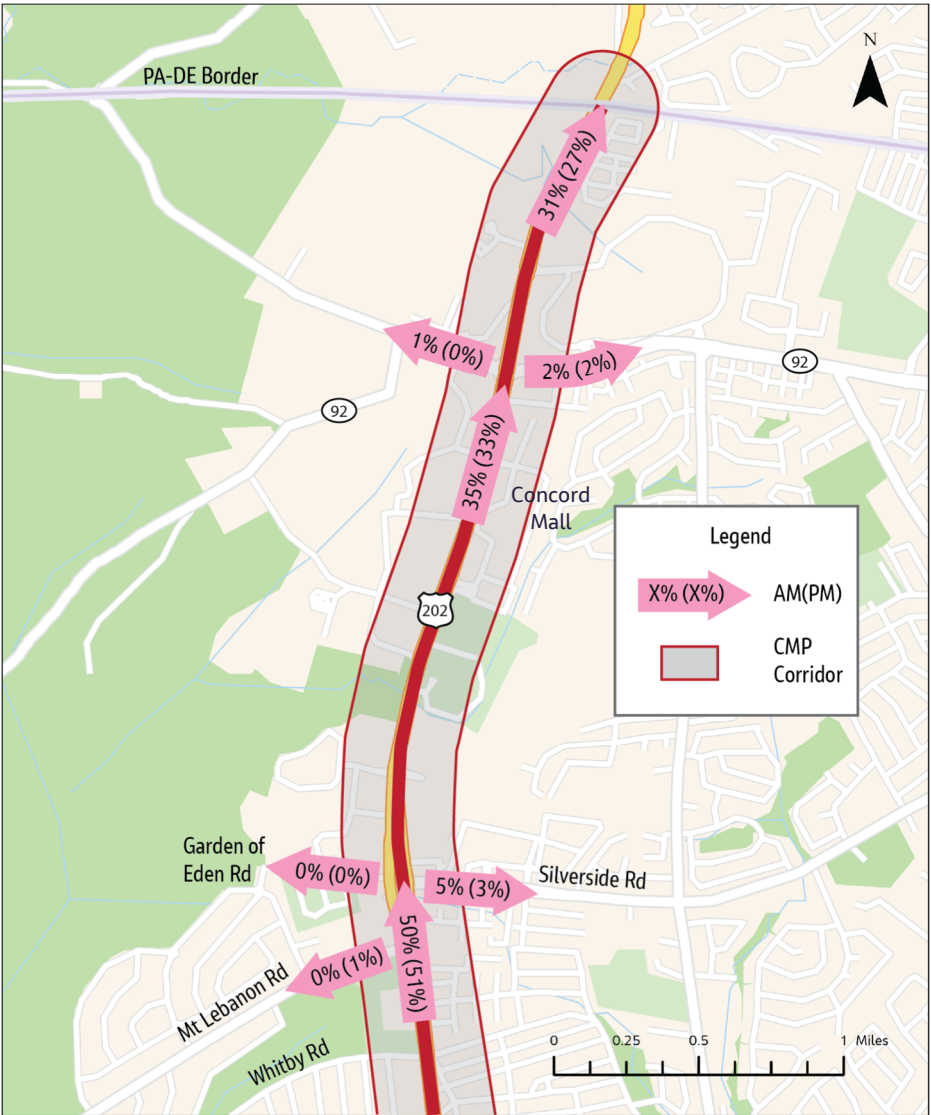
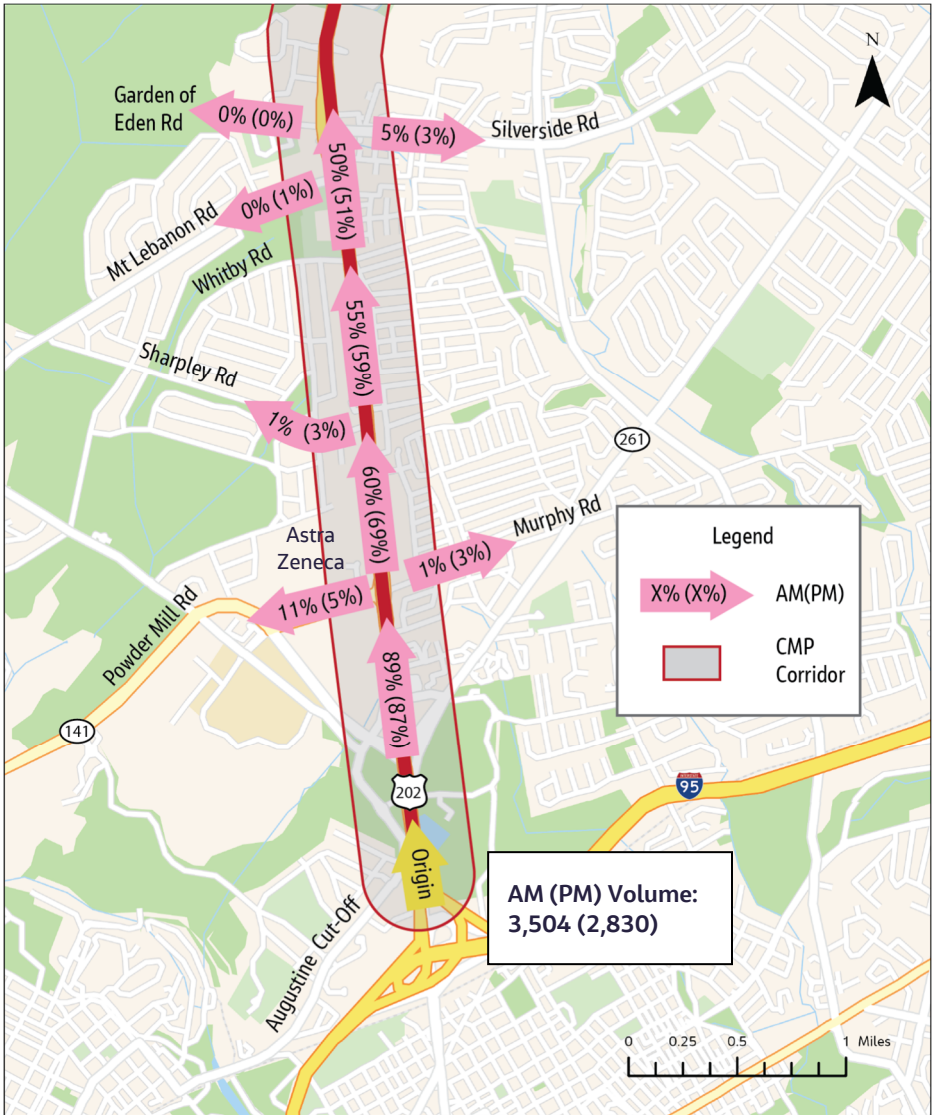
Peak Period	Origin	Destination											
		DE 92 WB West of US 202	DE 92 EB East of US 202	Garden of Eden Rd WB	Silverside Rd EB	Mount Lebanon Road WB	Sharpley Rd WB	Murphy Rd EB	Powder Mill Rd Ext WB	Augustine Cut Off	I-95 SB	I-95 NB	US 202 SB South of I-95
WE (10 AM - 3 PM)	US 202 South of PA State Line	7.2%	12.1%	0.3%	2.0%	1.0%	0.1%	0.3%	2.2%	1.8%	28.1%	0.3%	1.9%

# US 202 NORTHBOUND – WEEKDAYS (TUES-THURS)

## US 202 from I-95 to PA border

### Key Takeaways

- Like southbound traffic, **AM peak period (7 AM – 9 AM) volumes are about 25% higher** than the PM peak period (4 PM – 6 PM) volumes.
- US 202 northbound provides a critical connection to the Philadelphia suburbs across the border in Pennsylvania.
  - Approximately **31% of AM peak and 27% of PM peak northbound traffic reach the Pennsylvania border**. These percentages represent the proportion of northbound traffic observed traveling just north of the I-95 interchange that use US 202 as a regional route to access Pennsylvania in lieu of the interstate system.
- The section of US 202 just north of Powder Mill Road, populated by **Avenue North, Astra Zeneca, and the Fairfax Shopping center attracts 28% of AM peak and 21% of PM peak traffic**. This means that the 31% of AM peak traffic that reaches the Pennsylvania border makes up over half of all northbound traffic that continues beyond the area and approaches the Sharpley Rd intersection.
- With approximately **10% of AM peak and 15% of PM peak traffic destined for the Concord Mall area just south of DE 92**, it is clear that the area attracts a larger percentage of southbound traffic at the state line than northbound traffic at I-95.



Peak Period	Origin	Destination							
		Murphy Rd EB	Powder Mill Rd Ext WB	Sharpley Rd WB	Mount Lebanon Road WB	Silverside Rd EB	Garden of Eden Rd WB	DE 92 EB East of US 202	DE 92 WB West of US 202
AM (7 AM - 9 AM)	US 202 North of I-95	1.4%	10.7%	1.2%	0.3%	4.6%	0.1%	1.9%	0.7%
PM (4 PM - 6 PM)	US 202 North of I-95	3.2%	4.6%	3.2%	0.8%	2.7%	0.1%	2.0%	0.4%



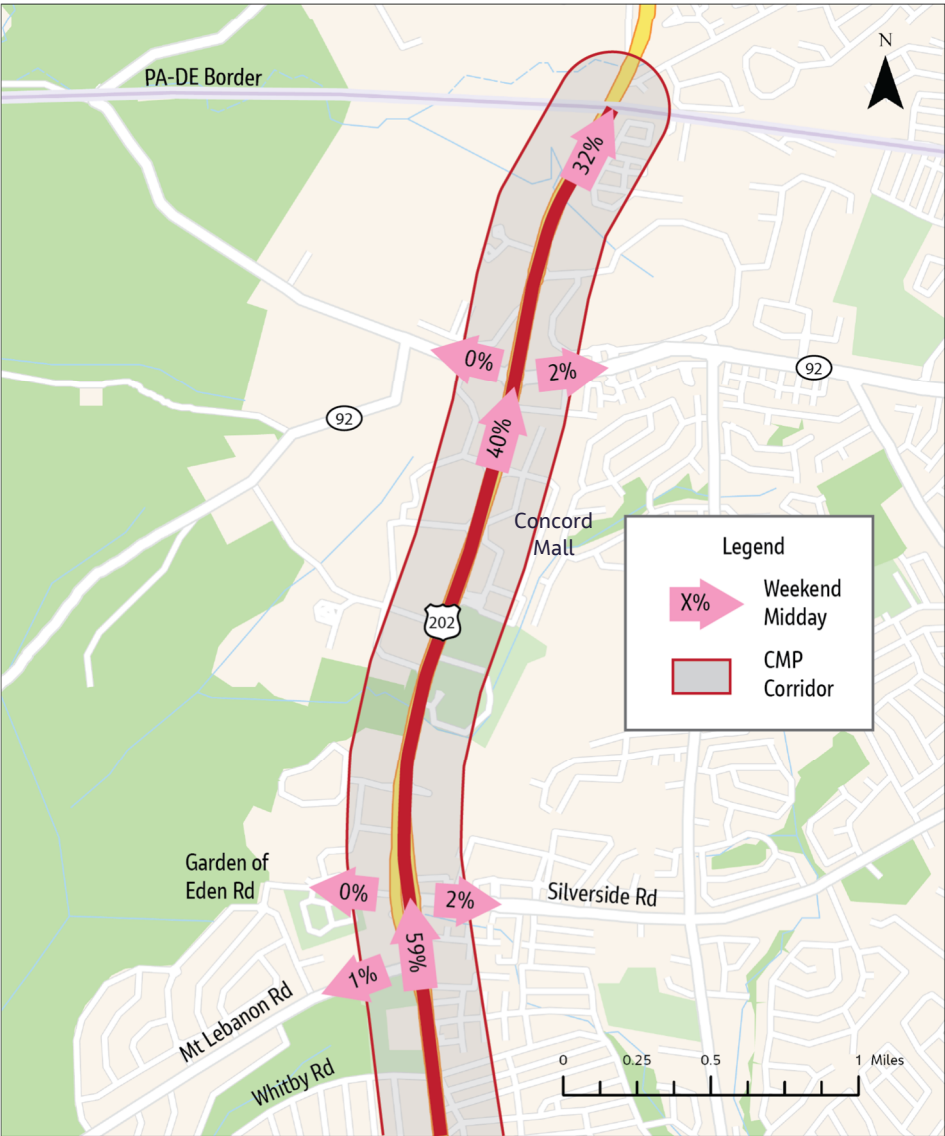
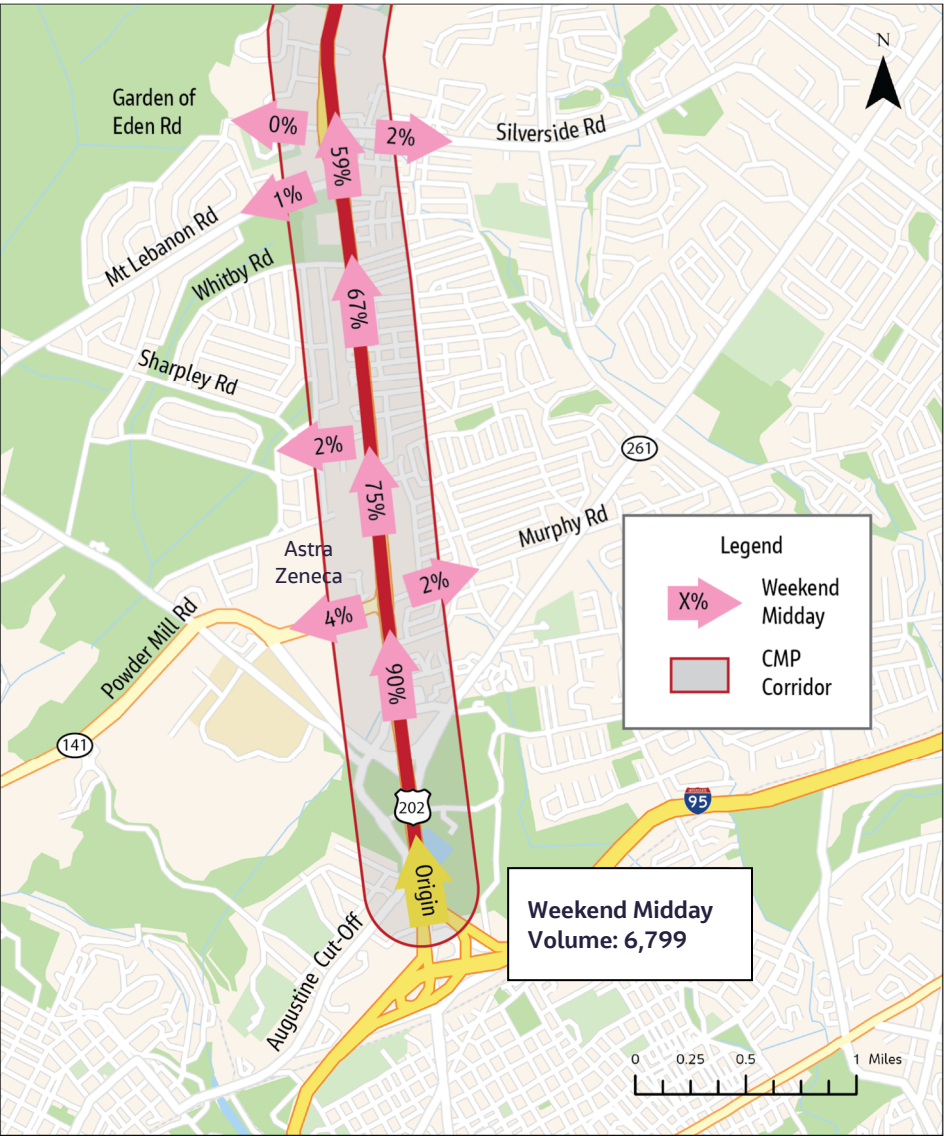
# US 202 NORTHBOUND – WEEKENDS (SAT-SUN)

## US 202 from I-95 to PA border

### Key Takeaways

Similar patterns continue during the weekend demonstrating that US 202 northbound still provides a critical connection to the Philadelphia suburbs across the border in Pennsylvania.

- **32% of weekend midday peak (10 AM – 3 PM) northbound traffic continues through to the Pennsylvania state line.** This represents 80% of the traffic that reaches the intersection of DE 92 near the Brandywine Town Center.
- **17% of weekend midday northbound traffic completes their trip in the vicinity of the Concord Mall.** This is, unsurprisingly, an increase when compared to weekday peak periods.
- Similar to the AM and PM peaks, **over 40% of traffic finds its destination prior to reaching the intersection of Garden of Eden Rd/Silverside Rd.**
- Overall, **northbound traffic during the weekend midday peak appears to travel further along US 202 than in either the weekday AM or PM peak periods.** This could be due to employment centers like the Astra Zeneca campus generating less traffic and due to increased shopping on the weekends. This could also speak to an increased willingness of travelers to take longer trips on the weekends when there are less obligations like school or work.



Peak Period	Origin	Destination							
		Murphy Rd EB	Powder Mill Rd Ext WB	Sharpley Rd WB	Mount Lebanon Road WB	Silverside Rd EB	Garden of Eden Rd WB	DE 92 EB East of US 202	DE 92 WB West of US 202
WE (10 AM - 3 PM)	US 202 North of I-95	1.8%	4.3%	1.8%	0.5%	2.0%	0.0%	2.2%	0.3%