



Mercer County Regional Planning Commission

*Mercer County
Congestion Management Processes*

PERFORMANCE MONITORING SUMMARY

CMP Corridor #203

PA 18 (Through Hermitage)

Data Date: Fall / Winter 2009

PERFORMANCE MONITORING SUMMARY FOR:

CORRIDOR # 203	Data Date:	Fall / Winter 2009
PA 18	Limits:	I-376 / PA 60 (Shenango Twp) to PA 518 & SR 3020 (Lamor Rd) (Hermitage)
	Length:	7.4 Miles
	Volume:	Daily = 4,100–21,200 veh/day; Hourly = 450-1,900 veh/hr

Applicable Type(s) of Congestion (✓)

✓	Commuter / Commercial Congestion	✓	Non-recurring Incident Congestion
✓	Town Center / Main Street Congestion		Non-recurring Special Event Congestion
✓	School Congestion	✓	Isolated Issues / Hot-Spots

Performance Measures (per travel time data or field recon)

---	PREVIOUS UPDATE (none) Total Delay (veh-hr) and (<i>County Rank</i>)	---	PREVIOUS UPDATE (none) Delay Rate (min / mi) and (<i>County Rank</i>)
(n/a)		(n/a)	
92	CURRENT UPDATE (2009) Total Delay (veh-hr) and (<i>County Rank</i>)	0.6	CURRENT UPDATE (2009) Delay Rate (min / mi) and (<i>County Rank</i>)
(2)		(9)	
14.7	Travel Time (minutes)	5.0	Stops (#)
4.5	Delay (minutes)	0.7	Stop Rate (# / mi)
3.1	Delay Ratio (%)	8	Total Flagged Considerations (#)
30	Average Speed (mph)	24	Estimated Sidewalk Completion (%)

Flagged Considerations (✓)

✓	National Highway System	✓	Tourism / Recreation / Special Events
✓	Transit		Community Concerns / Quality of Life
	Pedestrian	✓	Growth / Land Use / Economic Impacts
	Bicycle		Roadway Infrastructure (or related)
✓	Truck Freight	✓	Traffic Operations (or related)
	Rail Freight	✓	Access / Access Control
✓	Incident Management		Safety or Crash Activity

Adjacent Land Uses (% of corridor length based on segment-level occurrences)

57%	Residential	45%	Religious / Church / Cemetery
94%	Business / Commercial	5%	Health / Medical / Emergency Services
27%	Industrial / Manufacturing	5%	Government / Institutional
27%	Educational		Other:

Context Description

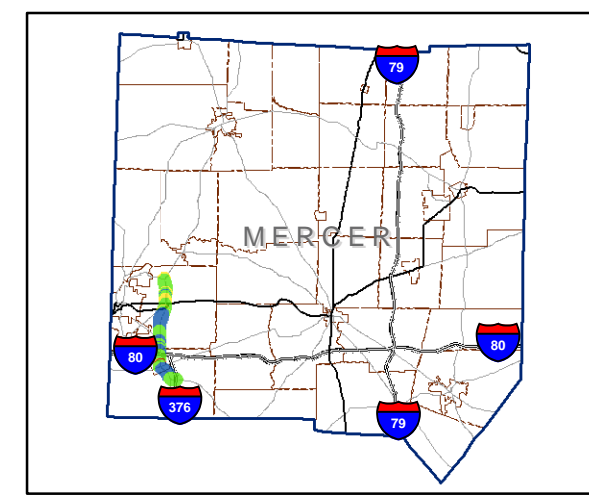
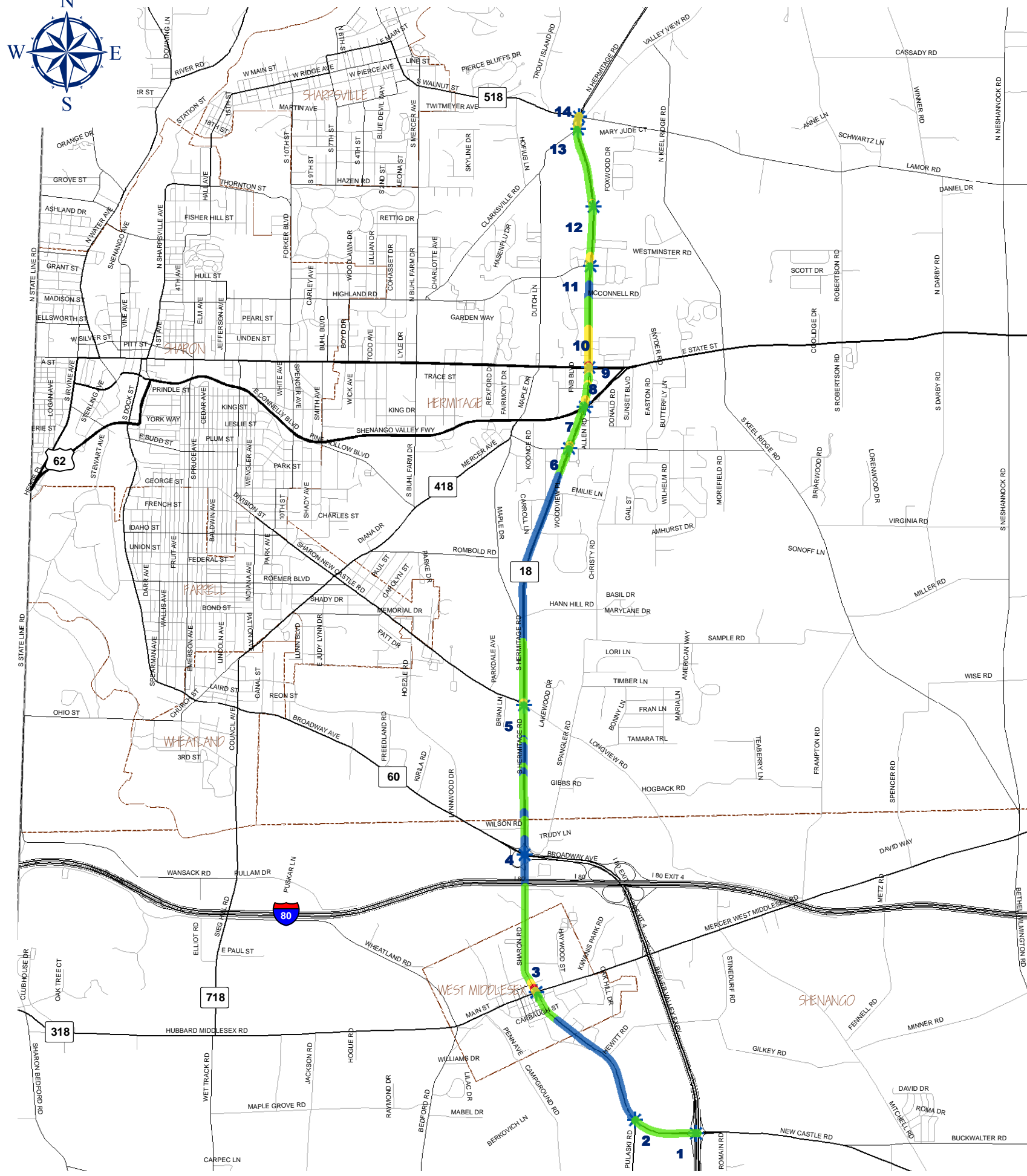
Most of this PA 18 corridor (north of PA 60 and through Hermitage) is a 35-40 mph “regional arterial” with typically 5 total lanes (2 lanes in each direction plus dedicated turn lanes) through a “suburban corridor” context. The southern portion of the corridor (south of PA 60 and through West Middlesex) functions more as a 35-45 mph “community arterial” with typically 2 total lanes (1 lane in each direction) through either a “rural places” or “town/village neighborhood” context. Overall, the corridor is heavily signalized, includes several school locations, and serves as the emergency detour route for portions of I-80 and PA 60. Peak periods of congestion typically occur during weekday afternoons as early as 3:00 PM based on school traffic and as late as 6:00 PM based on commuter / commercial traffic.

Other Highlights

- Potential traffic signal queuing, congestion, or side-street delays throughout the corridor, particularly crossing US 62, East State Street, and the mall area.
- Noticeable interruptions and slower-moving traffic in the curbside lane due to driveways and commercial access without dedicated right-turn lanes.
- Some parking and pedestrian activity due to the freshwater spring near PA 551.
- Sidewalk conditions or maintenance needs through West Middlesex.
- Possible isolated hot-spots:
 - Signal delays, queuing, or inefficiencies at PA 318 in West Middlesex
 - Side-street delays with no turn-lanes at PA 518 / Longview Road
 - Closely-spaced signal congestion from Dutch Lane to Lamor Road

Change Since Previous

- No change – data contained herein represents baseline conditions for Fall/Winter 2009 as defined during the CMP’s initial corridor assessments.
- Strategy Potential – An initial “Wish List” of Congestion Management Strategies has yet to be determined for this corridor.



Detail 1 - County Location (N.T.S.)



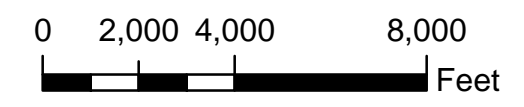
Detail 2 - US 62 & State Street Area (N.T.S.)

LEGEND

- Speed-Based Congestion Estimate**
- Slowed / Stopped (Significant Congestion)
 - Slowed (Moderate Congestion)
 - Free-Flowing (Minimal Congestion)
 - Free-Flowing (No Congestion)

Corridor Nodes, PA 18 @:

- * 14, PA 518, Lamor Rd (SR 3020)
- * 13, Dutch Ln (SR 3035)
- * 12, Wal-Mart Dr
- * 11, Highland Rd (SR 3014)
- * 10, Park Place MS, Mall
- * 9, E State St (SR 3008)
- * 8, Glimcher Blvd, Hermitage Square
- * 7, US 62, Shenango Valley Fwy
- * 6, Morefield Rd
- * 5, PA 518, Longview Rd
- * 4, PA 60, Beaver Valley Expy
- * 3, PA 318, Main St
- * 2, PA 551, Pulaski Rd
- * 1, I-376 / PA 60, Beaver Valley Expy



Mercer County CMP

PA 18 (Through Hermitage)
Speed Display Diagram for
Typical Weekday PM Peak (SB)