

# Hampton Roads Regional Travel Delay Study

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# INTRODUCTION

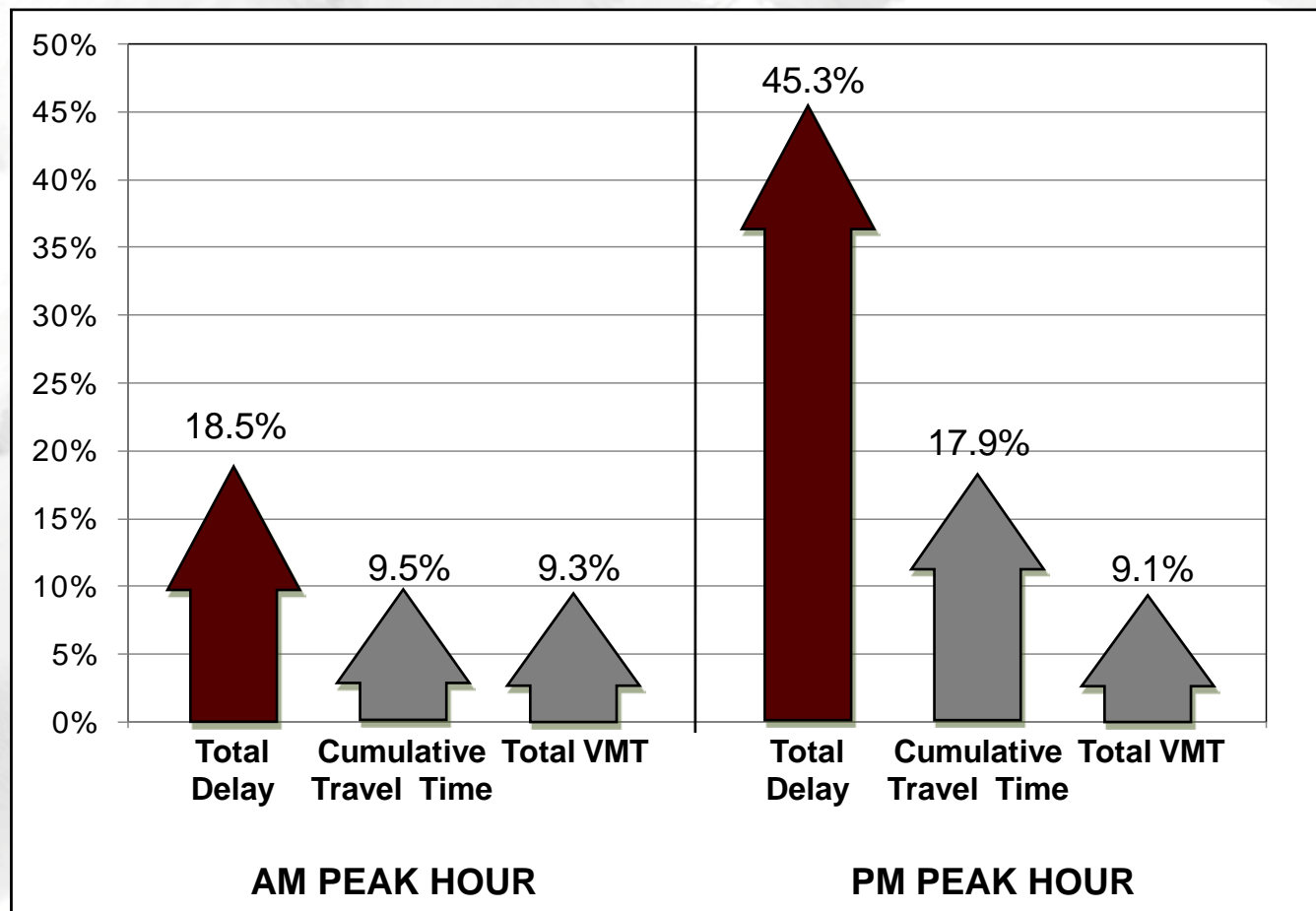
- **USDOT estimates that congestion costs America \$200 billion annually. In Hampton Roads it is estimated that roadway congestion cost Hampton Roads travelers an estimated \$467 million in 2005**
- **The purpose of this study is to analyze travel delay on roadways in Hampton Roads**
- **The Regional Travel Delay Study is divided into two distinct sections**
  - **Historical Travel Time Analysis**
  - **Freeway Delay Analysis**

# HISTORICAL TRAVEL TIME ANALYSIS

- **This section examines changes in travel delay on the regional roadway network from 2000 to 2005**
  - **Data was collected and analyzed on 1,400 miles of roadway in each direction during the peak hours**

# REGIONAL TRAVEL DELAY

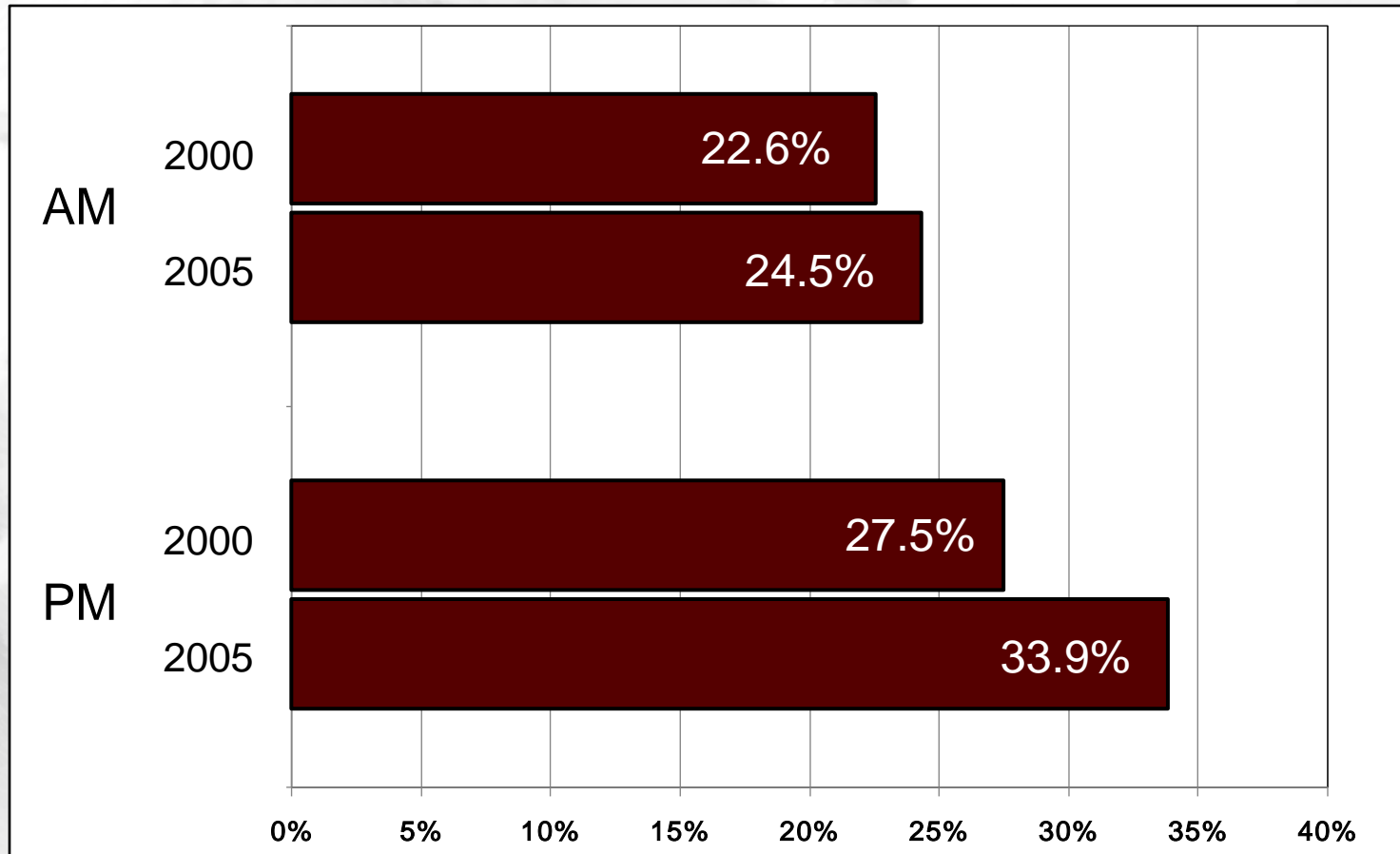
## Percent Change in Total Delay, Cumulative Travel Time, and Vehicle-Miles of Travel, 2000 to 2005



Data includes only those roadways included in the travel time analysis. Data source: HRMPO.

# REGIONAL TRAVEL DELAY

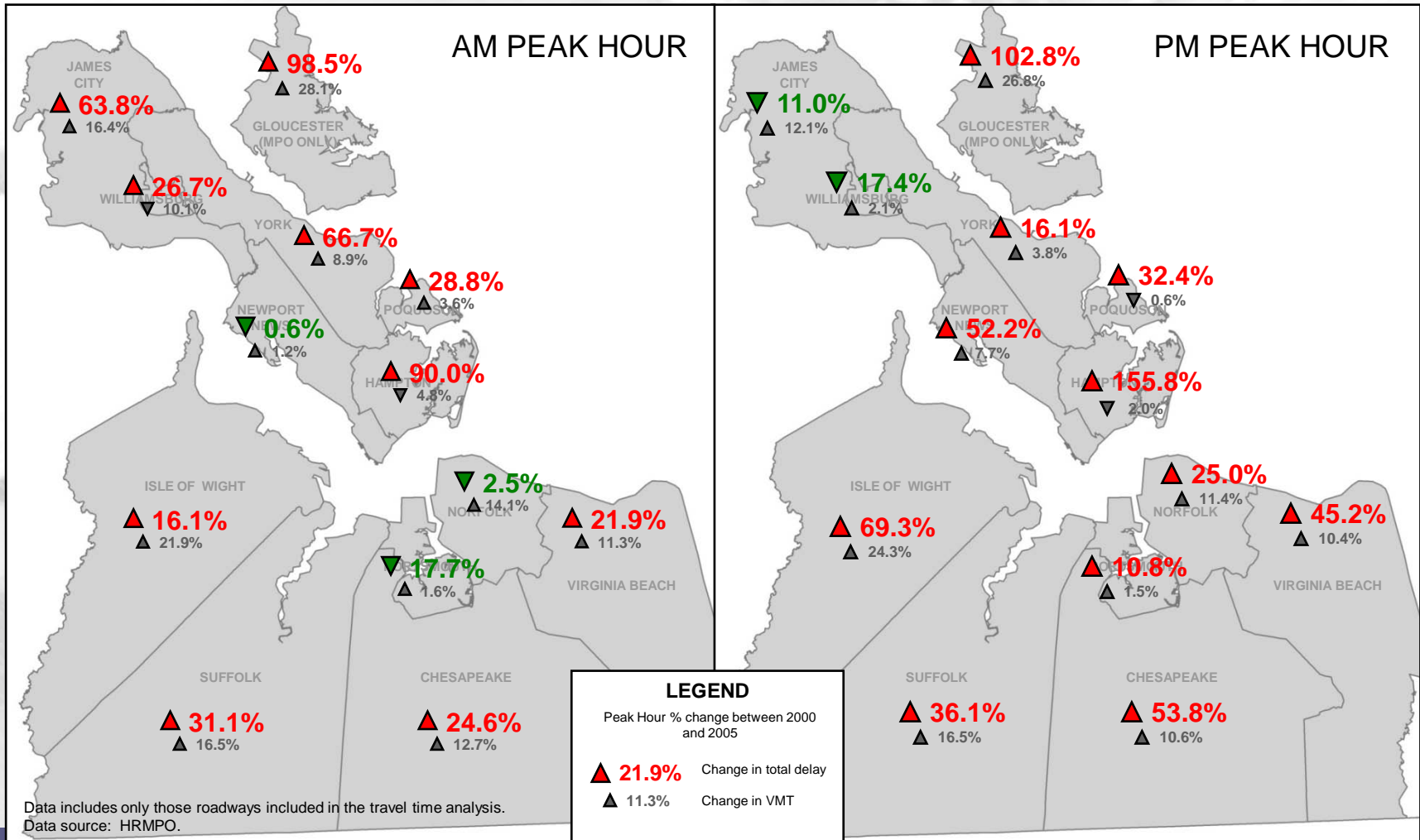
## Percent of Regional Peak Hour Travel Time Due to Delay 2000 and 2005



Data includes only those roadways included in the travel time analysis. Data source: HRMPO.

# JURISDICTIONAL TRAVEL DELAY

## Percentage Change in Total Delay and Vehicle-Miles of Travel 2000 to 2005

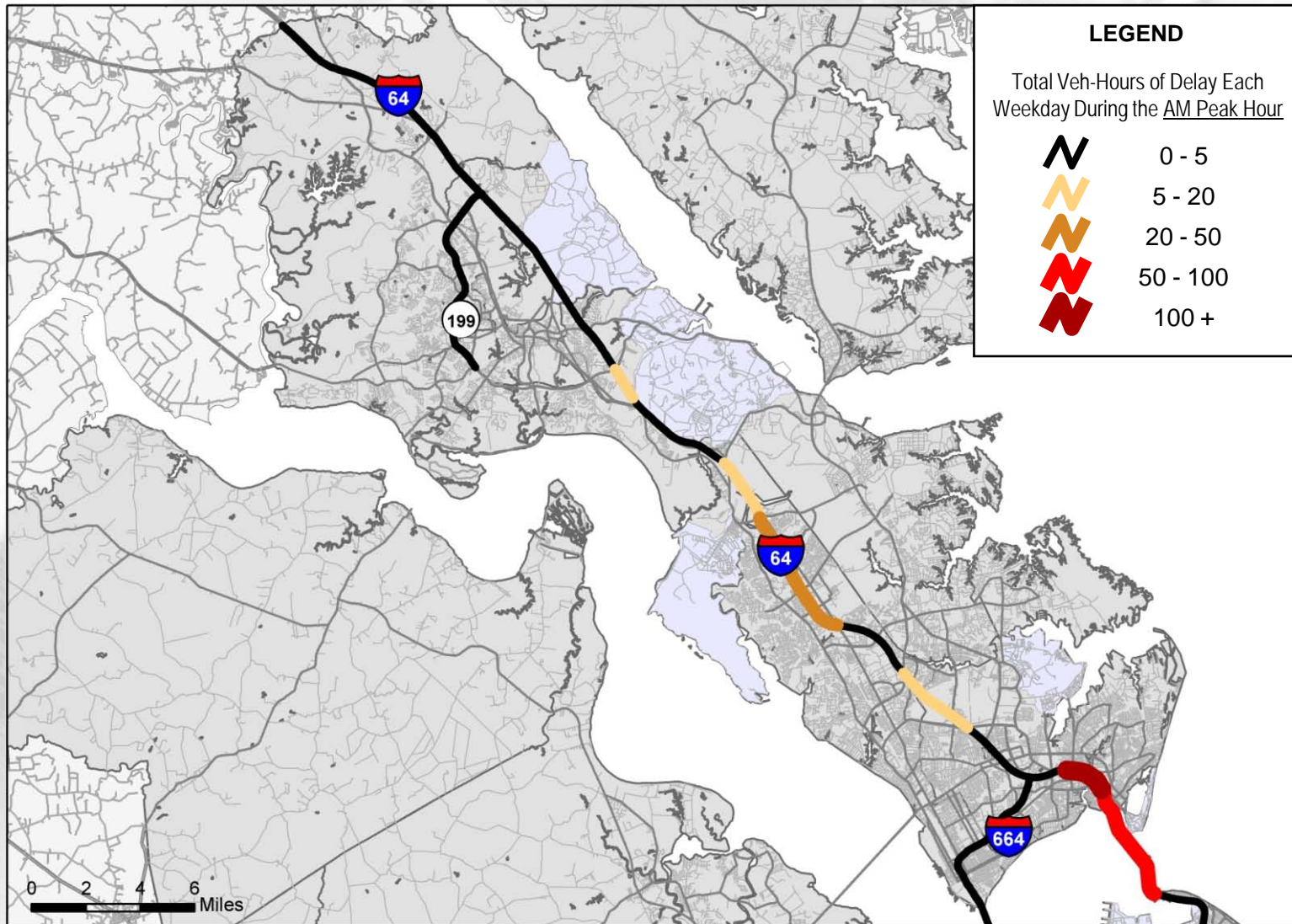


# FREEWAY DELAY ANALYSIS

- **Much of the congestion in Hampton Roads occurs on the freeway system**
- **Various causes for this congestion**
  - **Nonrecurring delay**
    - **Defined as delay due to various types of incidents including crashes, debris, work zones, inclement weather, special events, etc.**
    - **As much as 1/2 of all delay may be nonrecurring**
  - **Recurring delay**
    - **Defined as delay that regularly occurs due to capacity constraints**

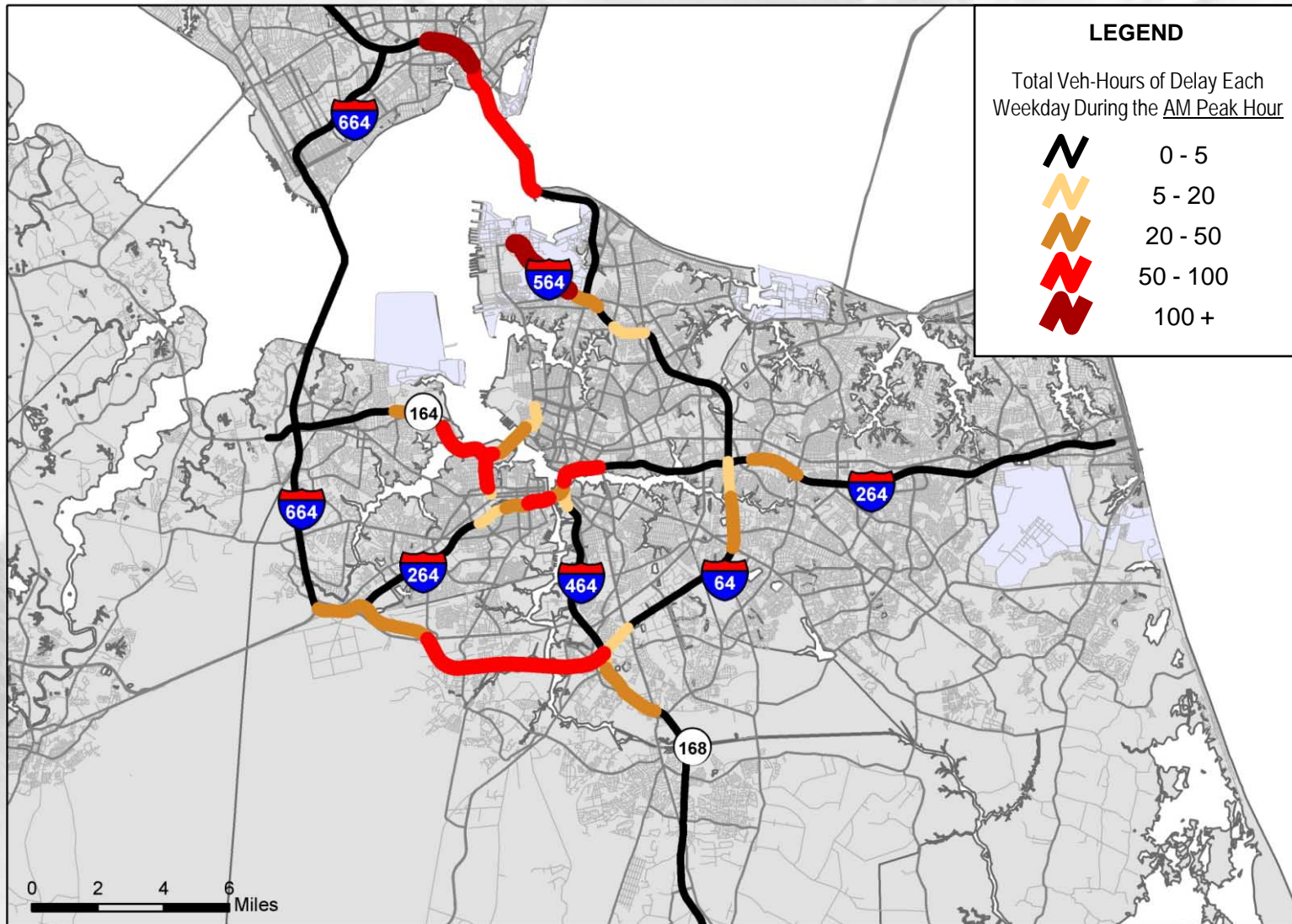
# RECURRING TRAVEL DELAY

## PENINSULA FREEWAYS



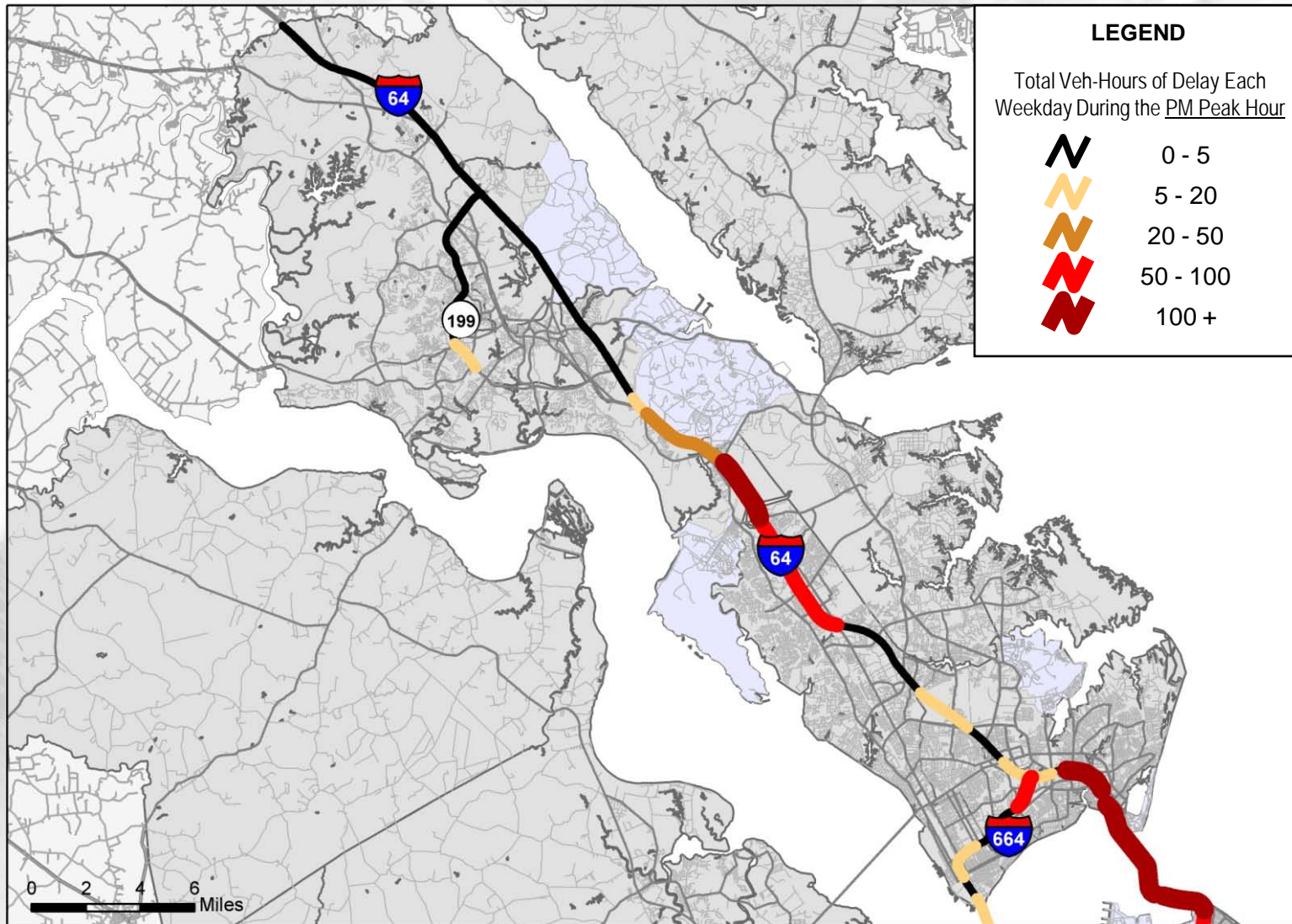
# RECURRING TRAVEL DELAY

## SOUTHSIDE FREEWAYS



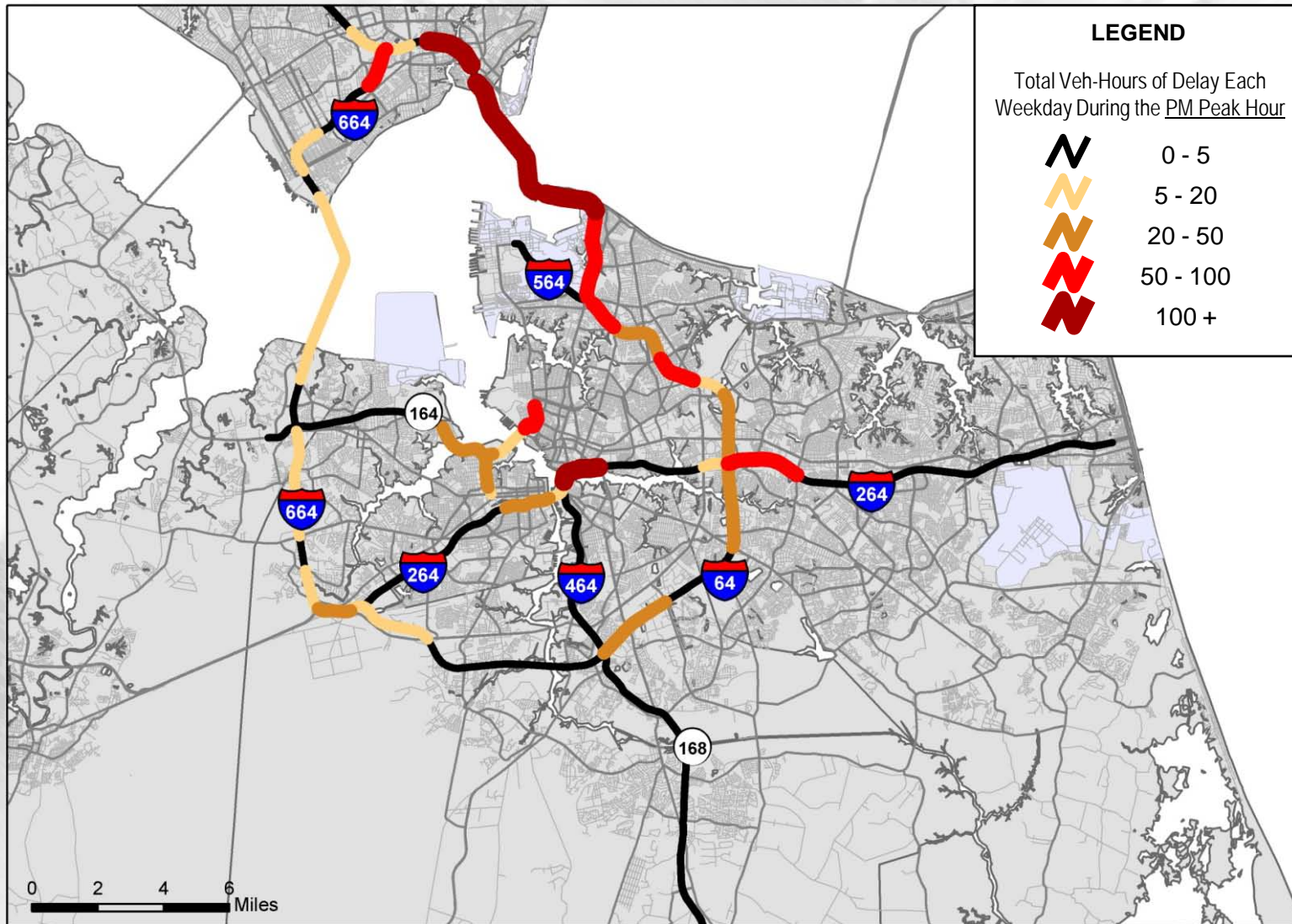
# RECURRING TRAVEL DELAY

## PENINSULA FREEWAYS



# RECURRING TRAVEL DELAY

## SOUTHSIDE FREEWAYS



# CONCLUSIONS

- **Delay in Hampton Roads increased 19% during the AM peak hour and 45% during the PM peak hour between 2000 and 2005**
- **Over a third of all travel time in the PM peak hour is due to delay**
- **The most delay on HR's freeways occur:**
  - **At the eastbound approach to the HRBT during the AM peak hour**
  - **At the westbound approach to the Downtown Tunnel during the PM peak hour**

# NEXT STEPS

- **Analyze possible “low cost” projects that could reduce recurring congestion**
- **Conduct additional analyses of non-recurring delay due to incidents**
- **Work closely with the Hampton Roads Incident Management Committee to decrease incident clearance times**
- **Approve the final report for distribution**



**HAMPTON ROADS**  
**MPO**  
METROPOLITAN PLANNING ORGANIZATION