

# Pedestrian Injuries in Minnesota 2000-2008

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# Outline

- Background: National/State contexts
- Methods
- Findings
- Conclusions

# Background

# National Context

- MV–related injuries are the leading cause of death for people ages 1–34
- 11% of all traffic deaths are pedestrians
- A pedestrian is killed every 2 hours & injured every 8 minutes
- In 2000 alone:
  - Costs of pedestrian and pedalcycle injuries cost around 40 billion

# State Context

- Between 2000-2008:
  - 420 pedestrians killed
  - 9,586 pedestrians injured
- Mortality and morbidity rates of pedestrian crashes lower than national rates
- Economic impact is significant and increasing
  - Between 2000-2007:
    - Total hospital charges \$86 million
    - On average, median charge \$1,029

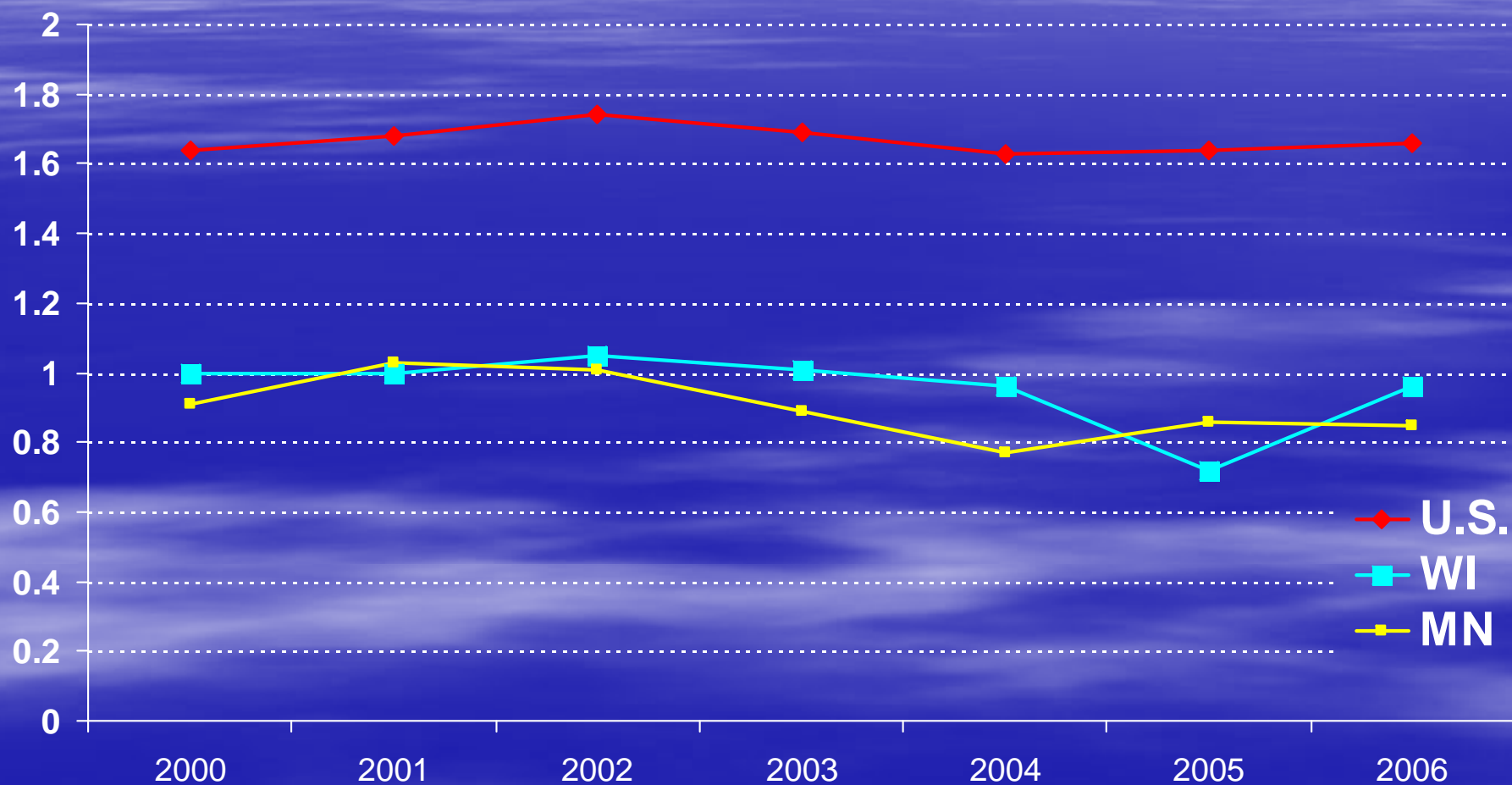
# Methods

- Hospital Data 2000-2007
- Crash Data 2000-2002; 2004-2008
- CODES 2000-2002; 2004-2005
  - (Crash Outcome Data Evaluation System)
- WISQARS 2000-2007
  - (Web-based Injury Statistics Query and Reporting System)
- MIDAS 1998-2007
  - (Minnesota Injury Data Access System)

# Findings

# MVT Pedestrian Mortality Rates 2000-2006

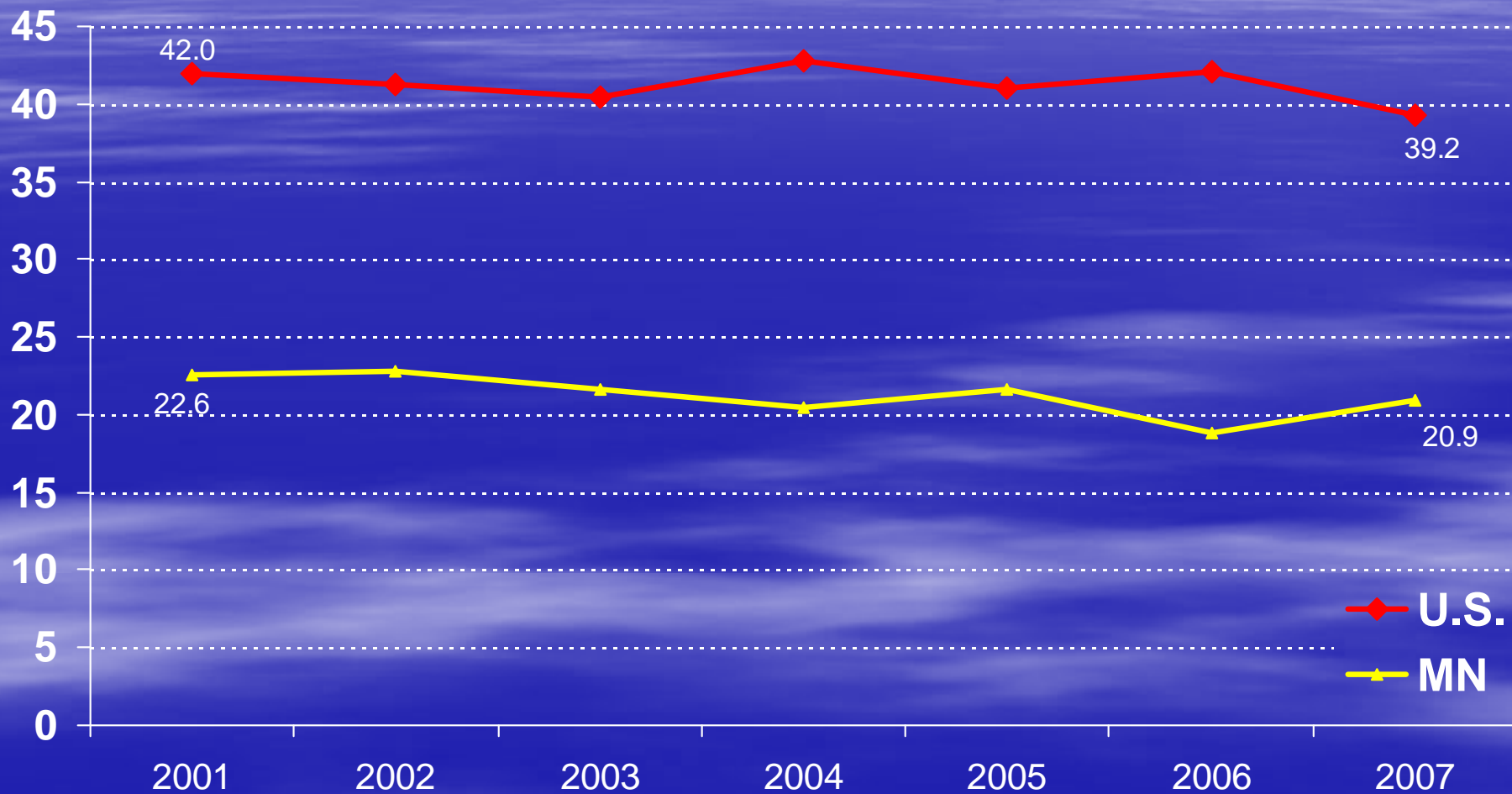
Age-adjusted rate per 100,000



Source: WISQARS

# MVT Pedestrian Nonfatal Injuries 2001-2007

Age-adjusted rate per 100,000



Sources: WISQARS; MIDAS

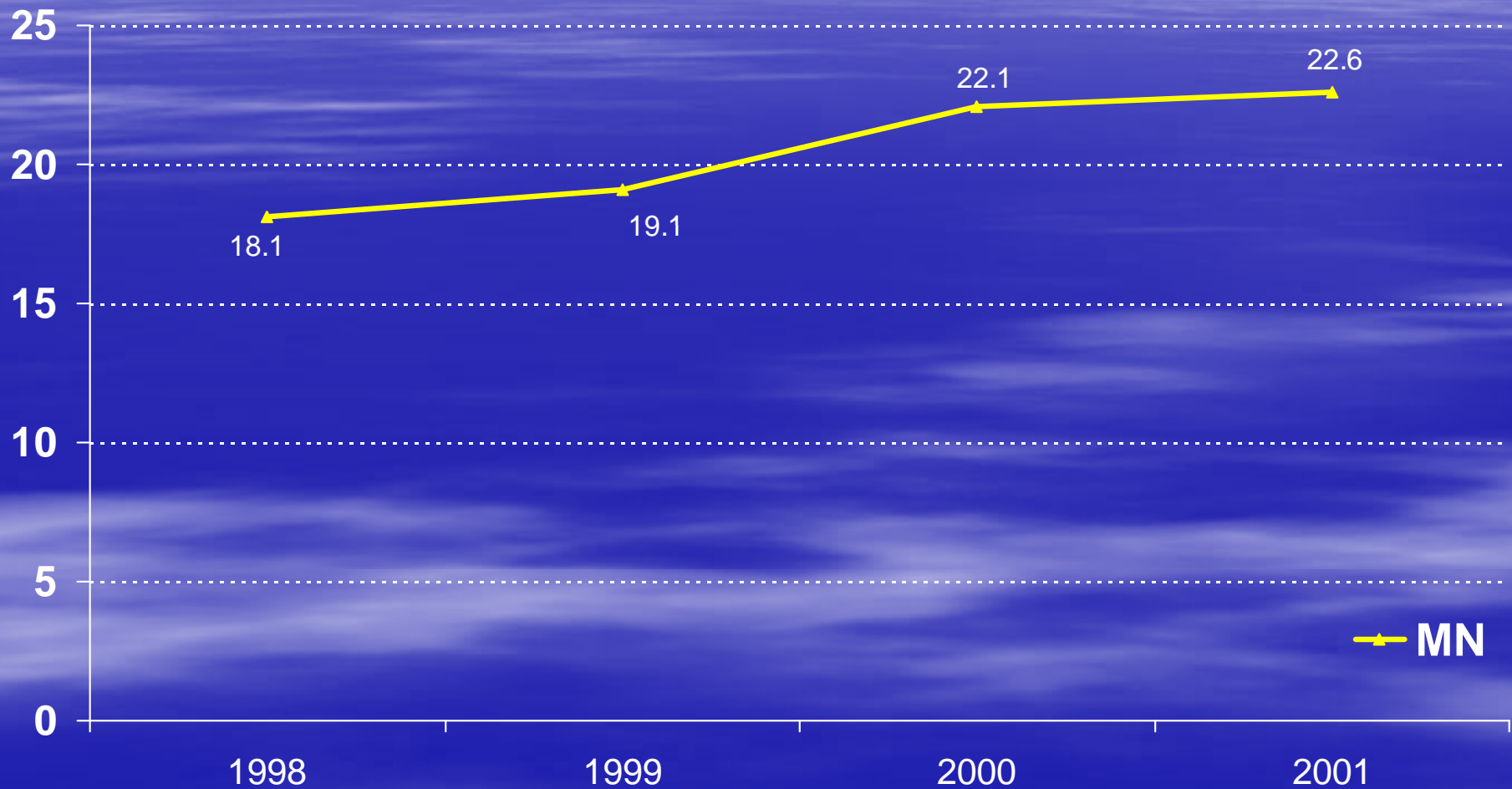


Are pedestrian injuries getting  
worse in Minnesota?

Not recently

# Nonfatal Hospital-treated Pedestrian Injuries Minnesota 1998-2001

Age-adjusted rate per 100,000

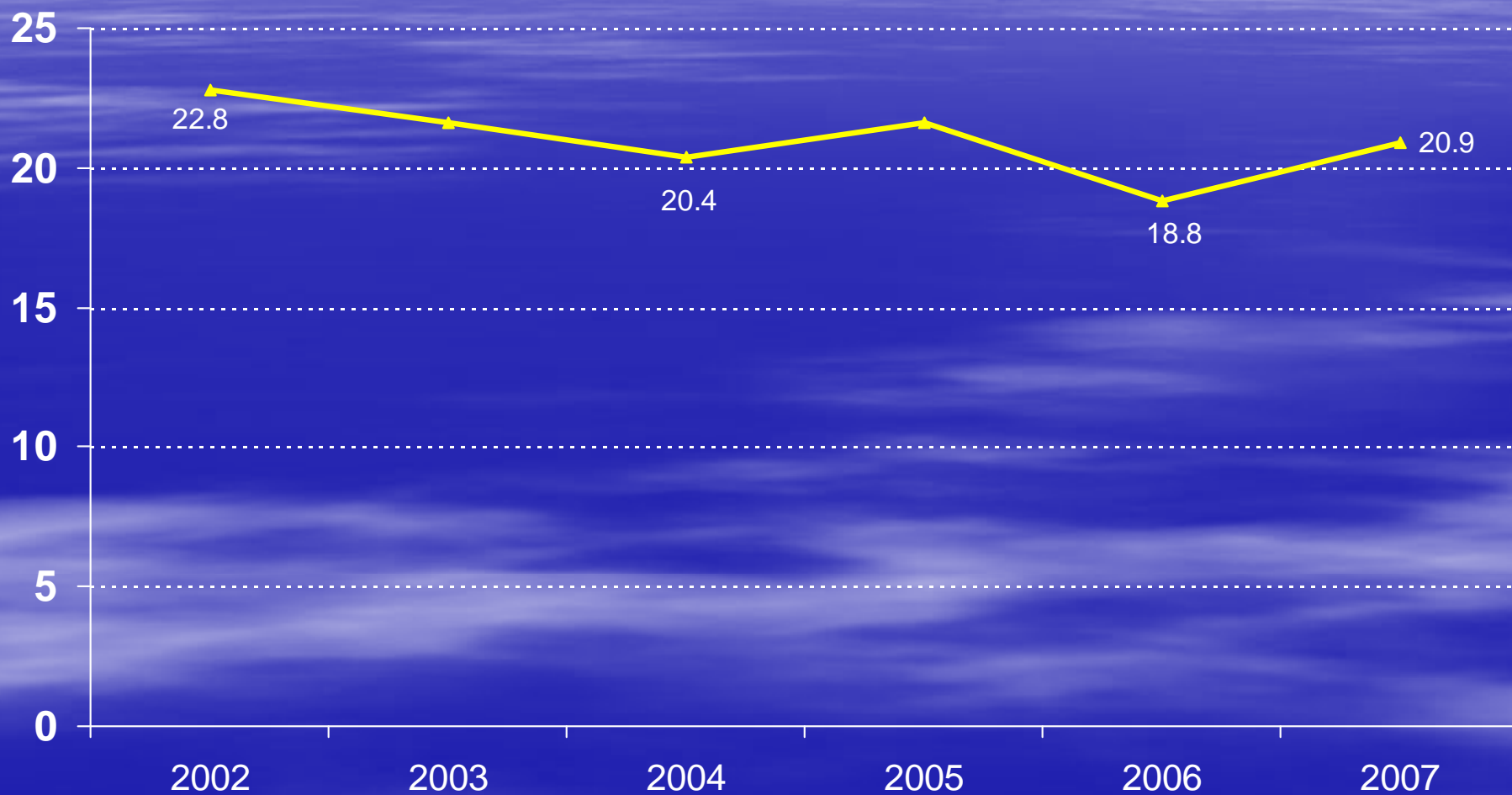


Sources: MIDAS

# Nonfatal Hospital-treated Pedestrian Injuries

## Minnesota 2002-2007

Age-adjusted rate per 100,000



Source: MIDAS

# Nonfatal Hospital-treated Pedestrian Injuries Type of Care, Minnesota 2002-2007

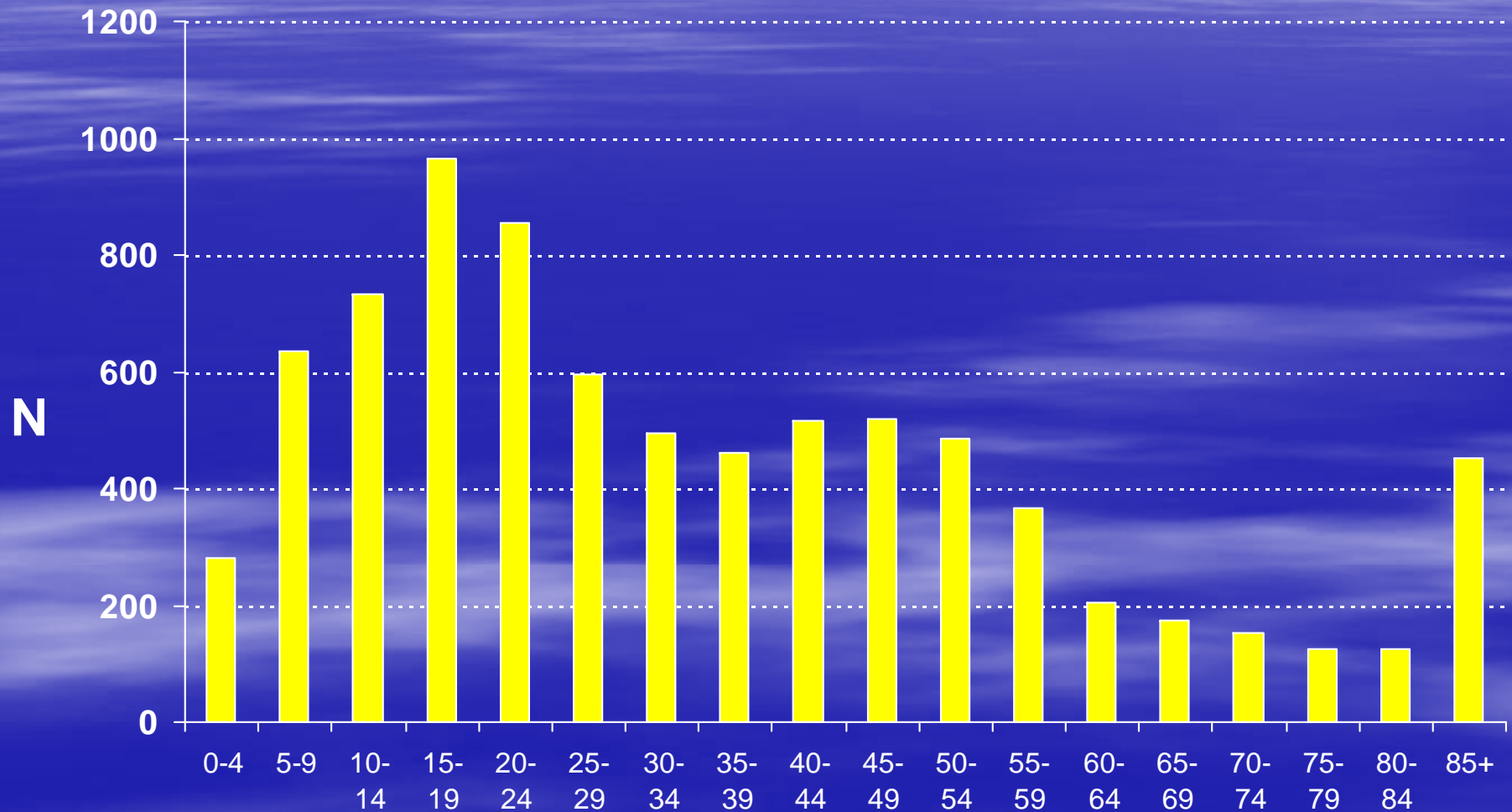
Age-adjusted rate per 100,000



Source: MIDAS

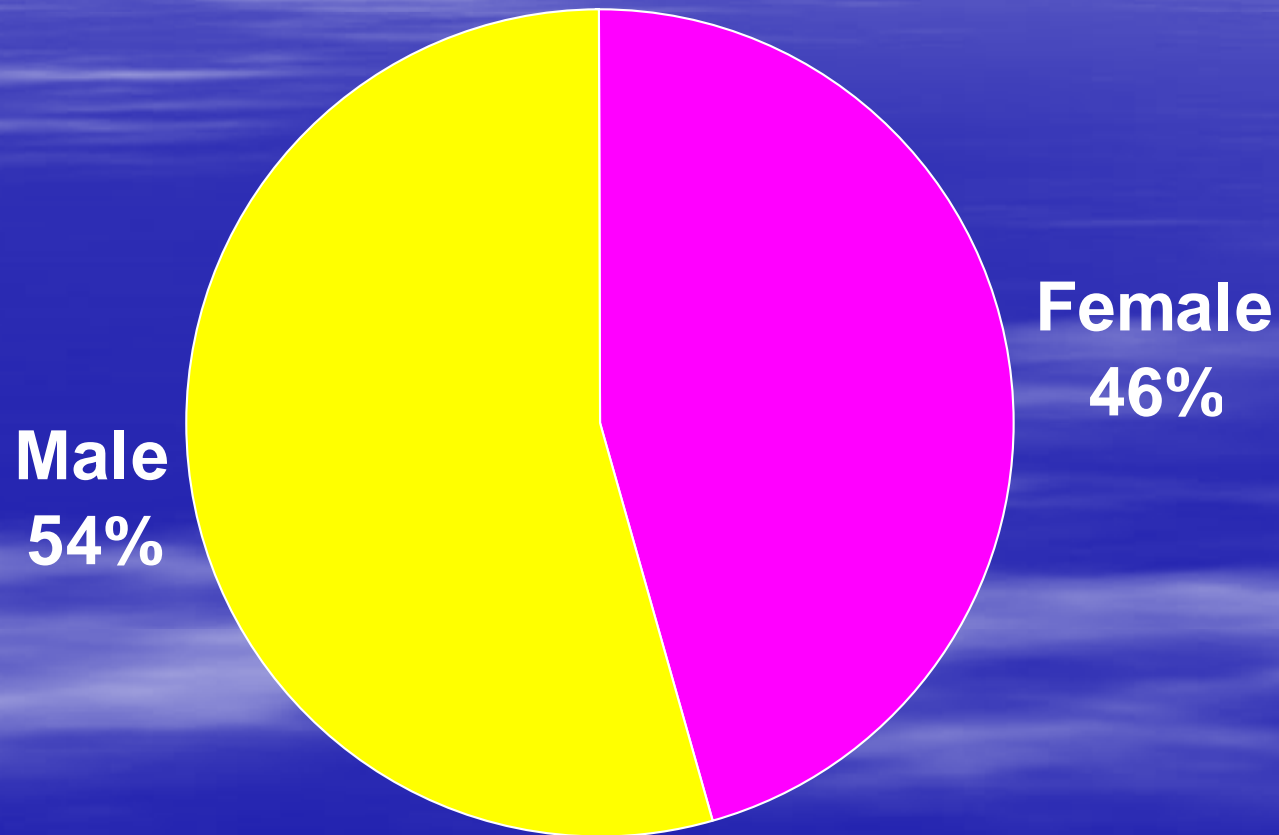
# The burden of injuries in Minnesota

# Pedestrian Injuries by Age-group Minnesota 2000-2007 (N=9,586)



Source: DPS

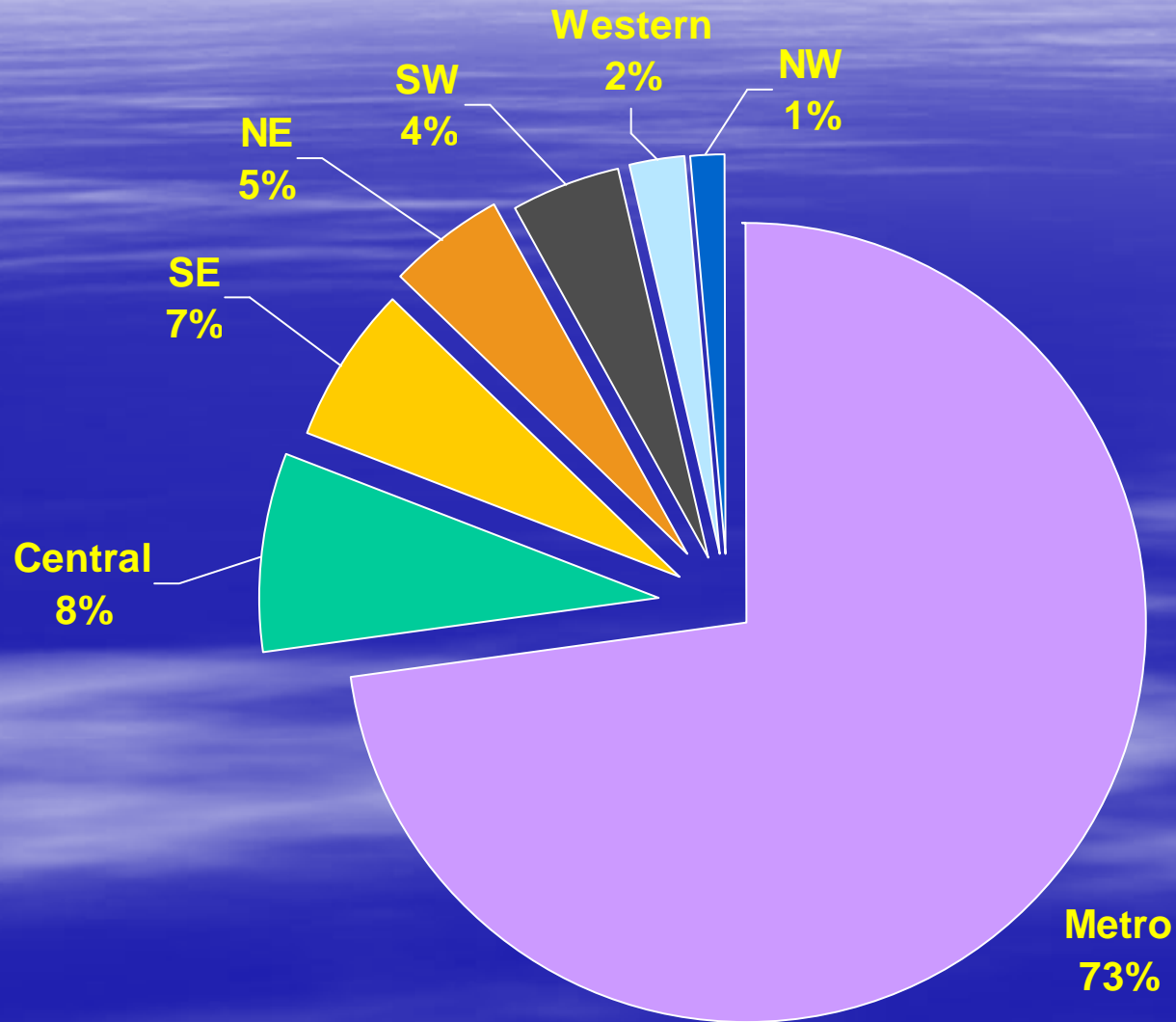
# Pedestrian Injuries by Gender Minnesota 2000-2007 (N=9,586)



Where are pedestrian crashes  
with MV happening?

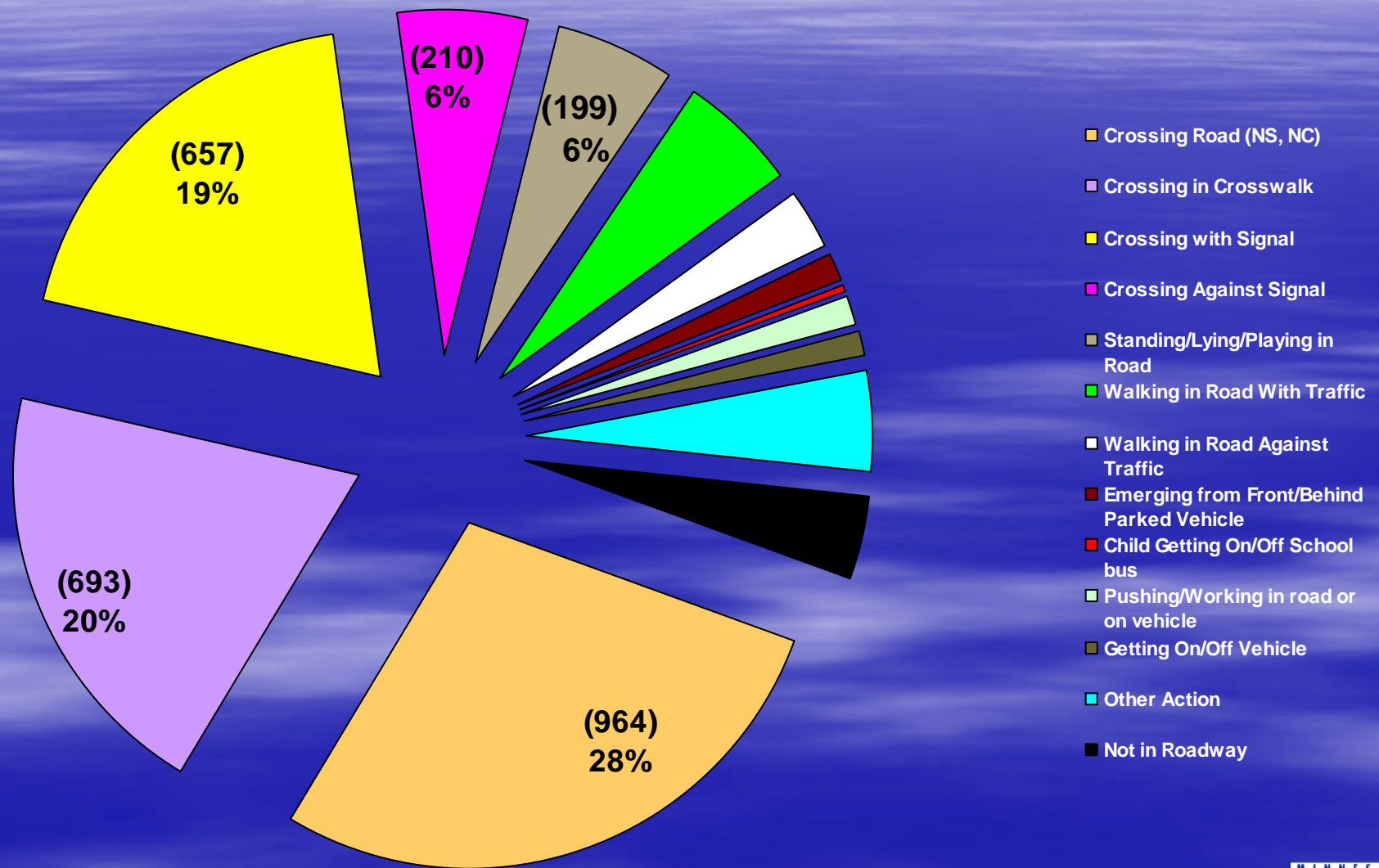
# Pedestrian Injuries in Minnesota

Regional burden 2000-2004 (N=4,553)



Source: DPS

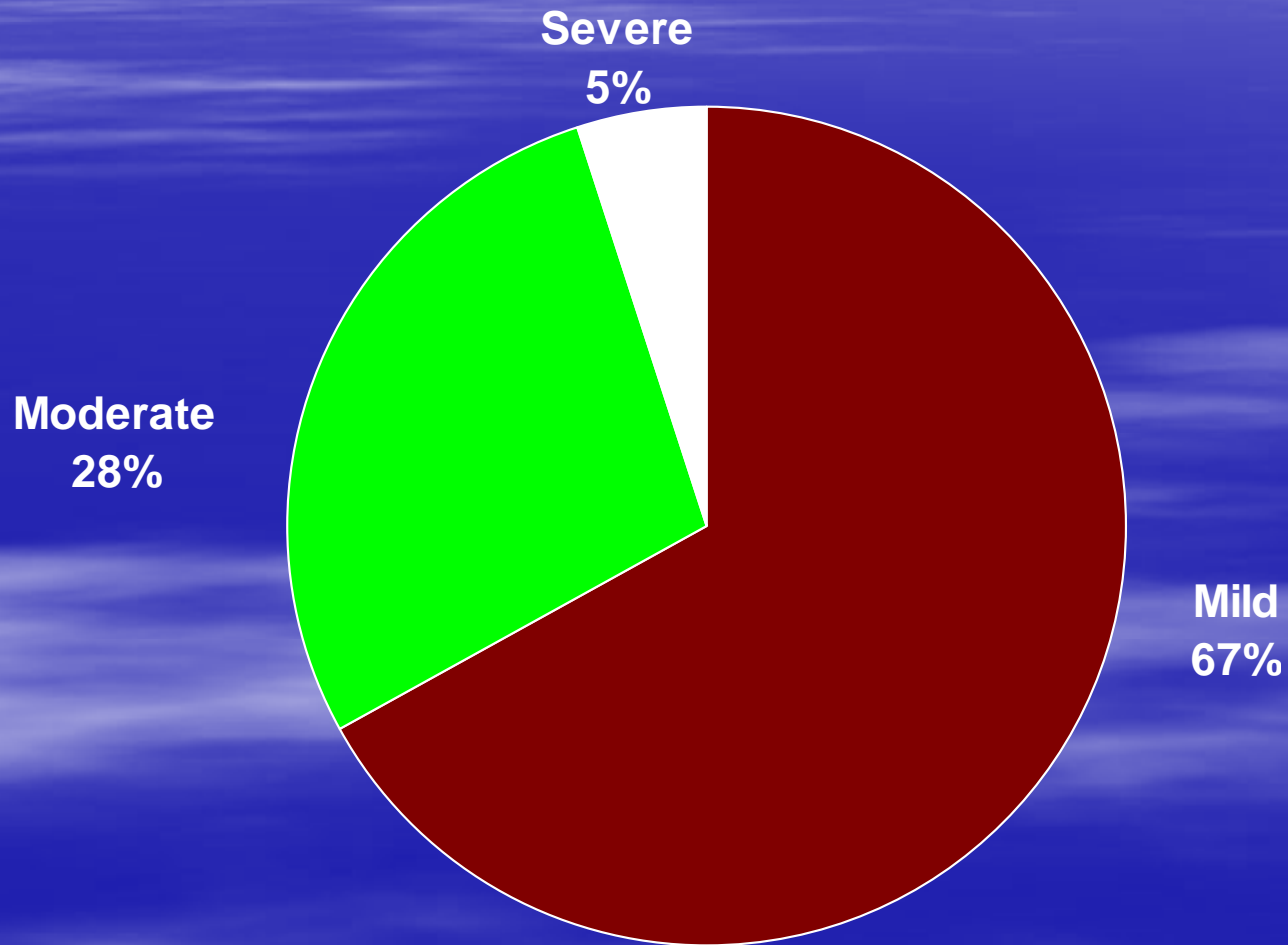
# Prior Action of Pedestrians Injured Minnesota 2004 – 2008 (N = 3,448)



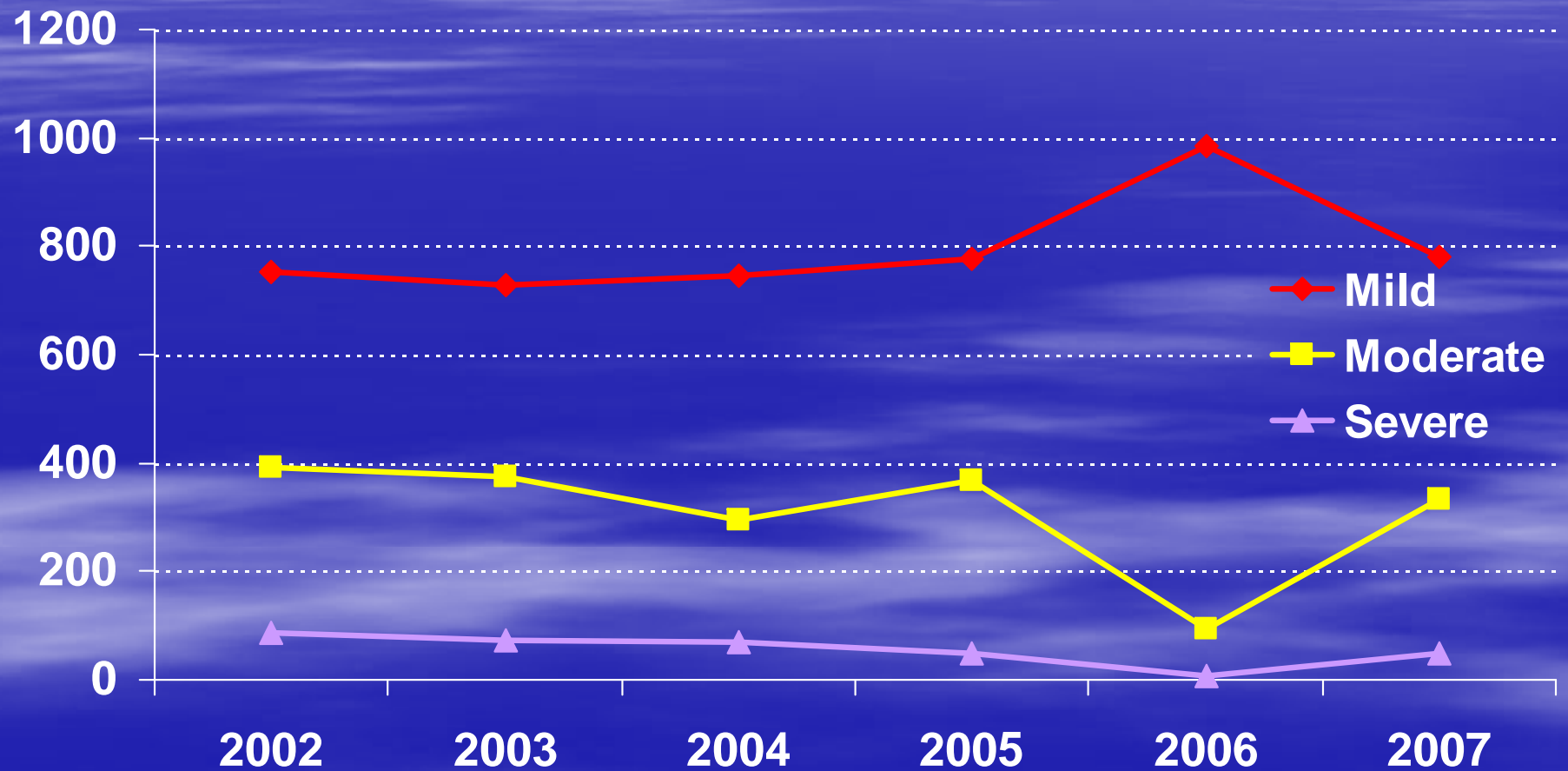
Source: DPS

# Pedestrian Injury Severity

# Severity of Hospital-treated Pedestrian Injuries Minnesota 2000-2007 (N=9,328)



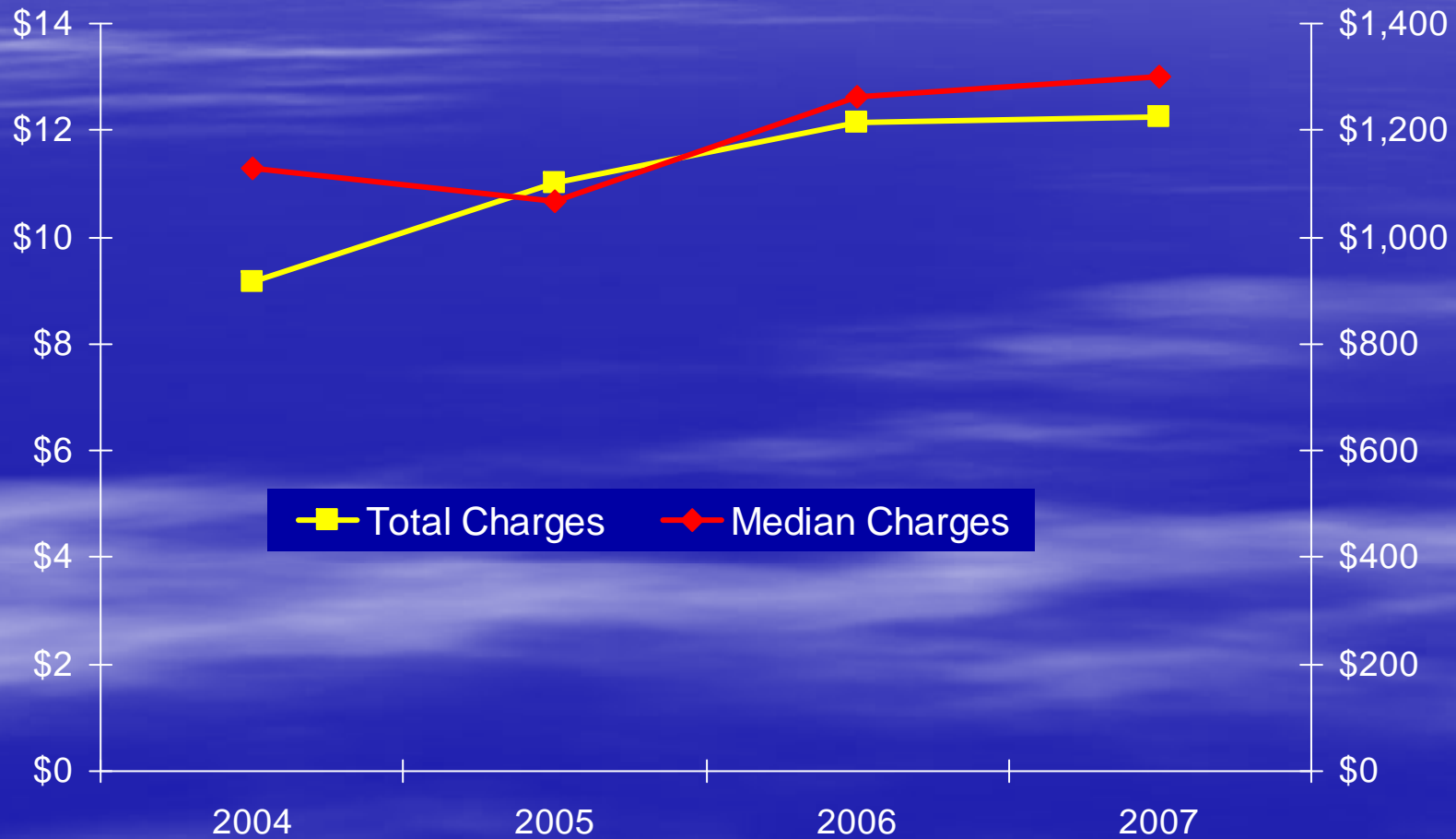
# Hospital-treated pedestrian injuries Minnesota 2002-2007 (N=9,328)



# Hospital charges Minnesota 2004-2007

Total  
charges/millions

Median  
charges



# Limitation

- Exposure Data

# Conclusions

- N and rate of pedestrian injuries 
- Severity of pedestrian injuries 
- Males and teenagers 15-19 years old
- $\frac{3}{4}$  in the metro area
- $\frac{1}{2}$  in Crosswalks and Roadways with NS/NC
- Economic impact 