The Regional Transportation Safety Picture

Crashes, Deaths, & Injuries

Briefing to the Transportation Safety Subcommittee
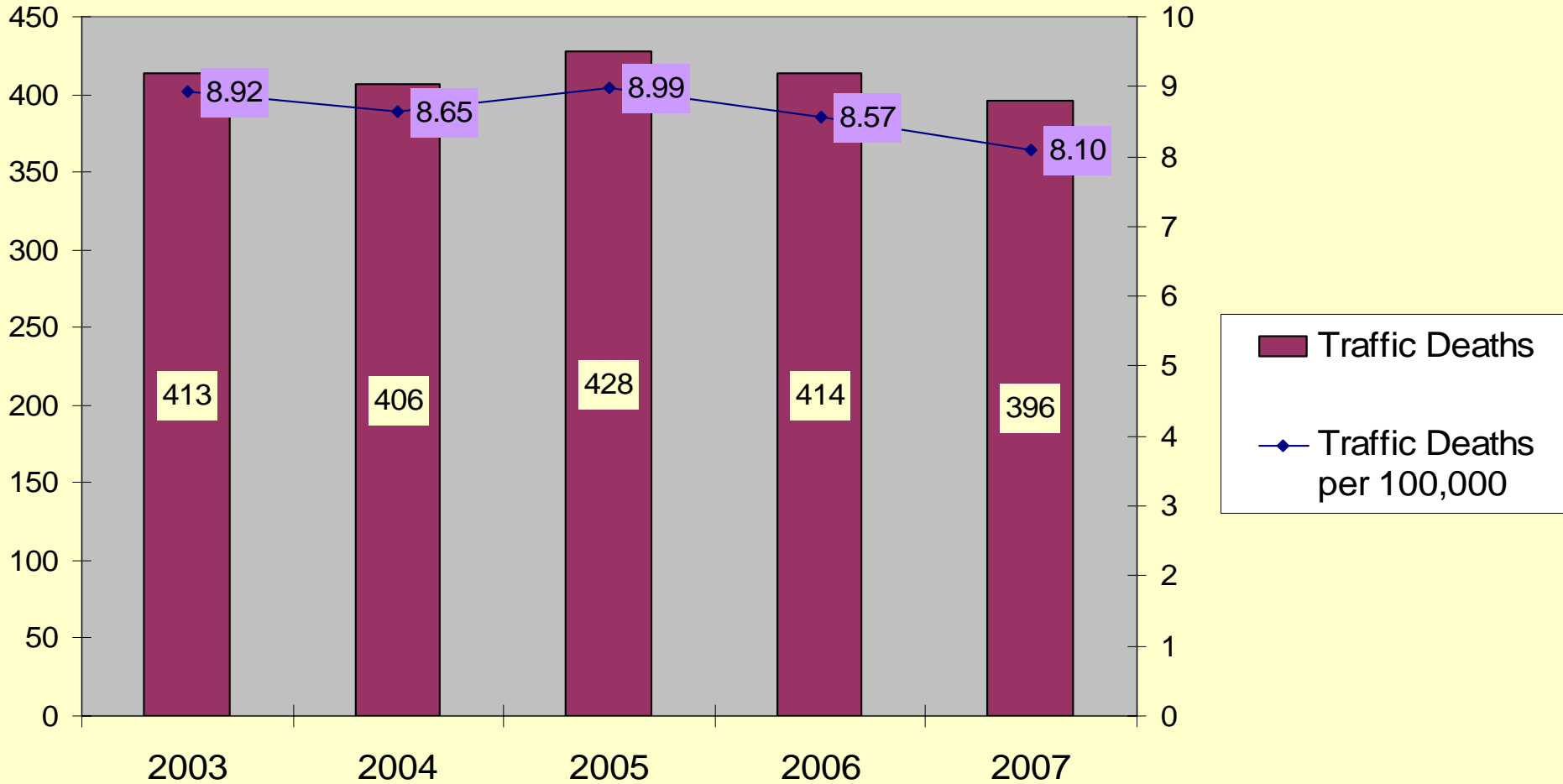Thursday, June 18, 2009
Item #4

Safety Element of the Long-Range Transportation Plan

- A Federal requirement

- Common goals of the State Strategic Highway Safety Plans (SHSP)s of DC, Maryland, & Virginia goals are incorporated into the CLRP Safety Element

- A regional look at Transportation Safety
  – Transportation Planning Board Area

- Update Fall 2009

6/18/2009

Common Emphasis Areas from the SHSP's

- Deaths, Injuries, & Crashes

  - Impaired Driving & Aggressive Driving

  - Occupant Protection (seatbelts)

  - Driver Competence and Licensing

  - Young and Older Drivers

  - Pedestrians

  - Motorcycles

  - Large Trucks

  - Run off the Road

  - Intersections

  - Work Zone

- Information and Decision Support Systems (Traffic Records)

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Traffic Deaths Per 100,000 Population in the Washington Region, 2003-2007

| Year	Traffic Deaths	Traffic Deaths per 100,000
2003	413	8.92
2004	406	8.65
2005	428	8.99
2006	414	8.57
2007	396	8.10

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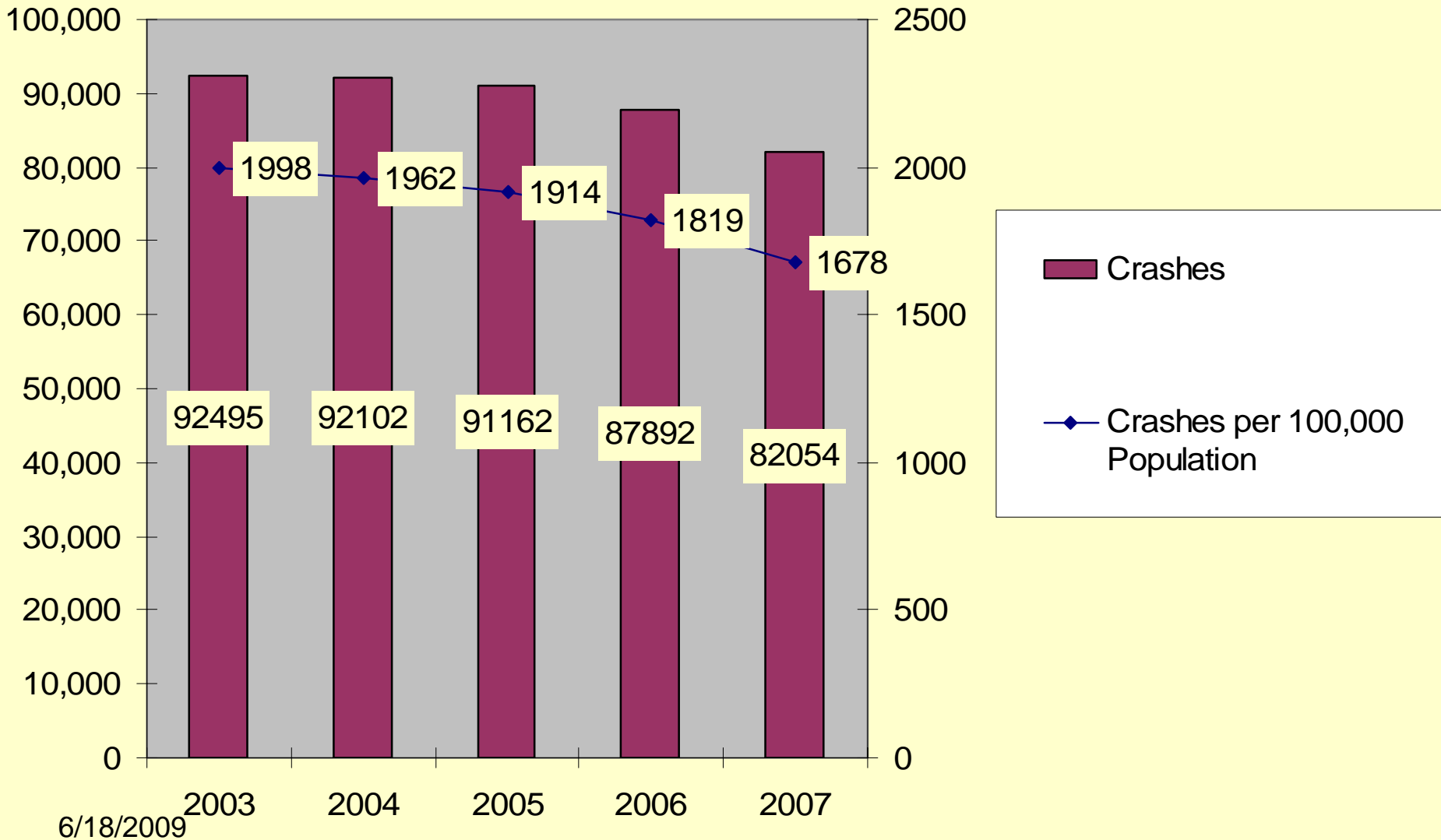**Traffic Injuries per 100,000 Population in the Washington Region, 2003-2007**

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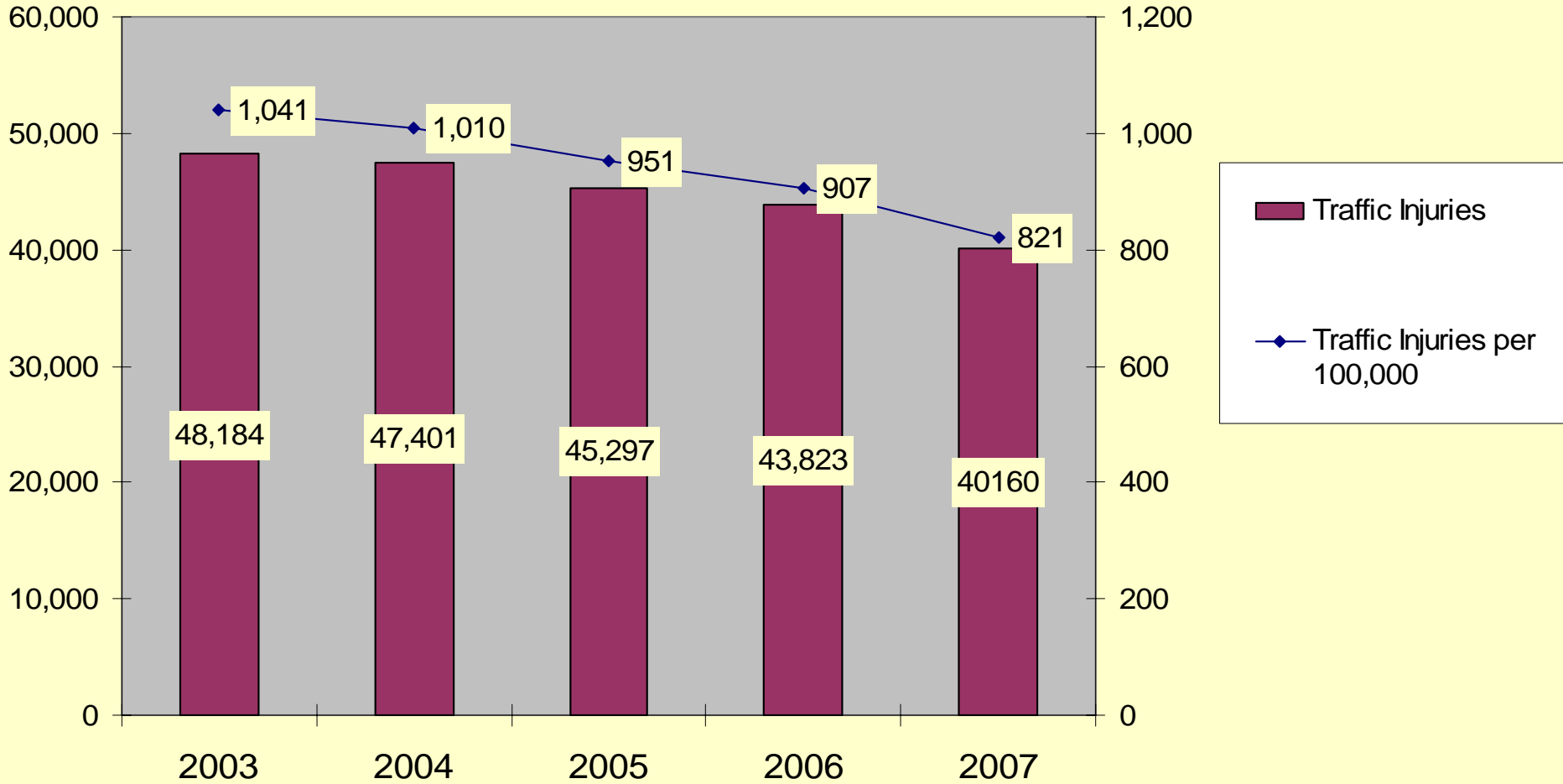
Average Annual Traffic Deaths Per 100,000 Population, 2005-2007
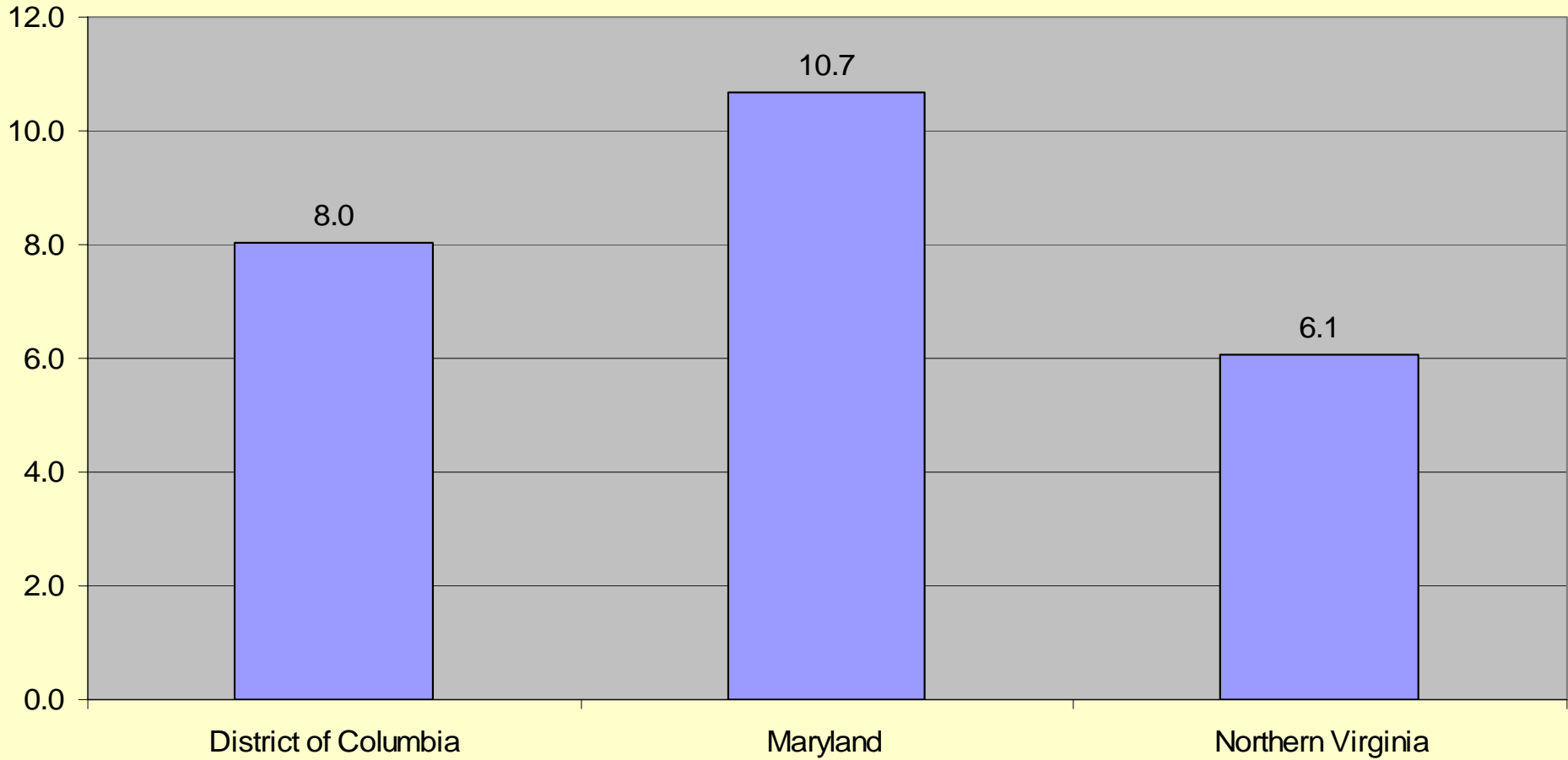
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Average Annual Traffic Injuries per 100,000 Population, 2005-2007

District of Columbia	Maryland	Northern Virginia
1213	875	820
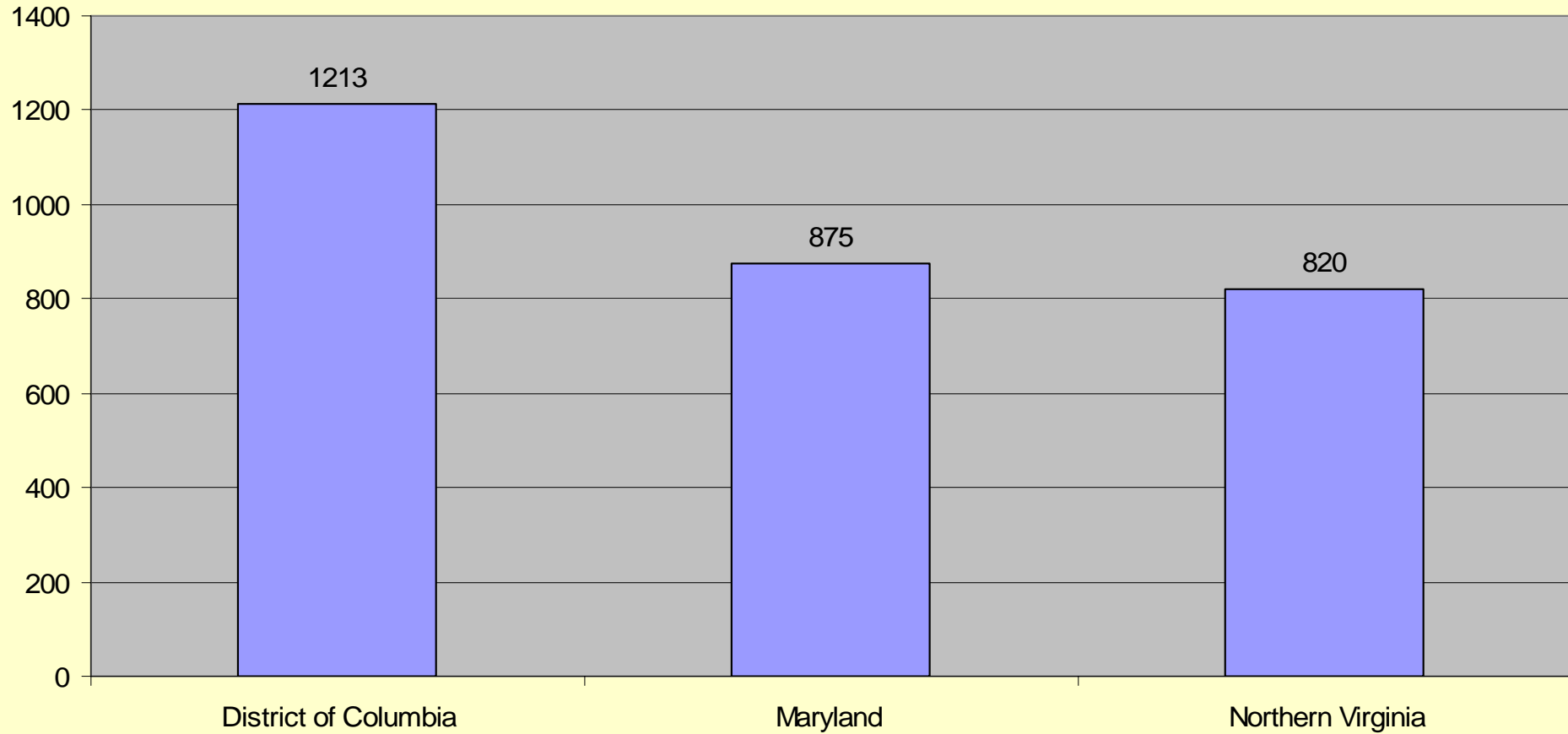
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All Crashes and Crashes per 100,000 Population in the Washington Region 2003-2007

Legend:
- Crashes
- Crashes per 100,000 Population

Data labels (Crashes): 92495, 92102, 91162, 87892, 82054

Data labels (Crashes per 100,000 Population): 1998, 1962, 1914, 1819, 1678

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Average Annual Crashes per 100,000 Population
2003-2007

Location	Value
District of Columbia	8421
Maryland	4740
Northern Virginia	5255
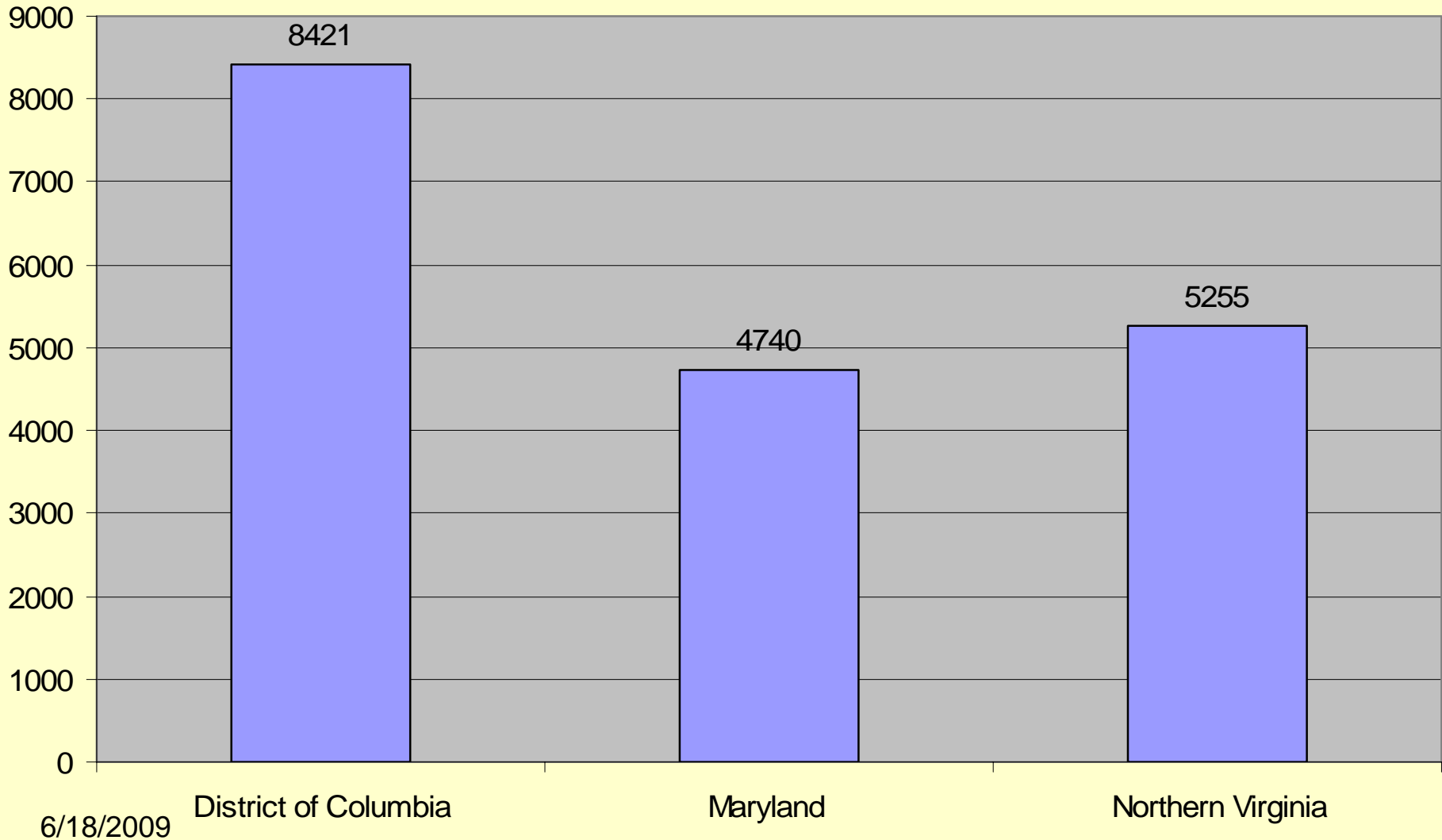
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2007 Crash Types in the Washington Region
(Total Crashes = 82,054)

Bar chart showing 2007 crash types in the Washington Region:

Crash Type	Crashes
Bicycle Crashes	716
Motorcycle Crashes	1,277
Pedestrian Crashes	2,065
Work Zone Crashes	2,988
Impaired Crashes	5,300
Truck Crashes	6,349
Speeding Crashes	6,353
Old Driver >65 Crashes	7,051
Signalized Intersection Crashes	18,525
Young Driver <21 Crashes*	21,514
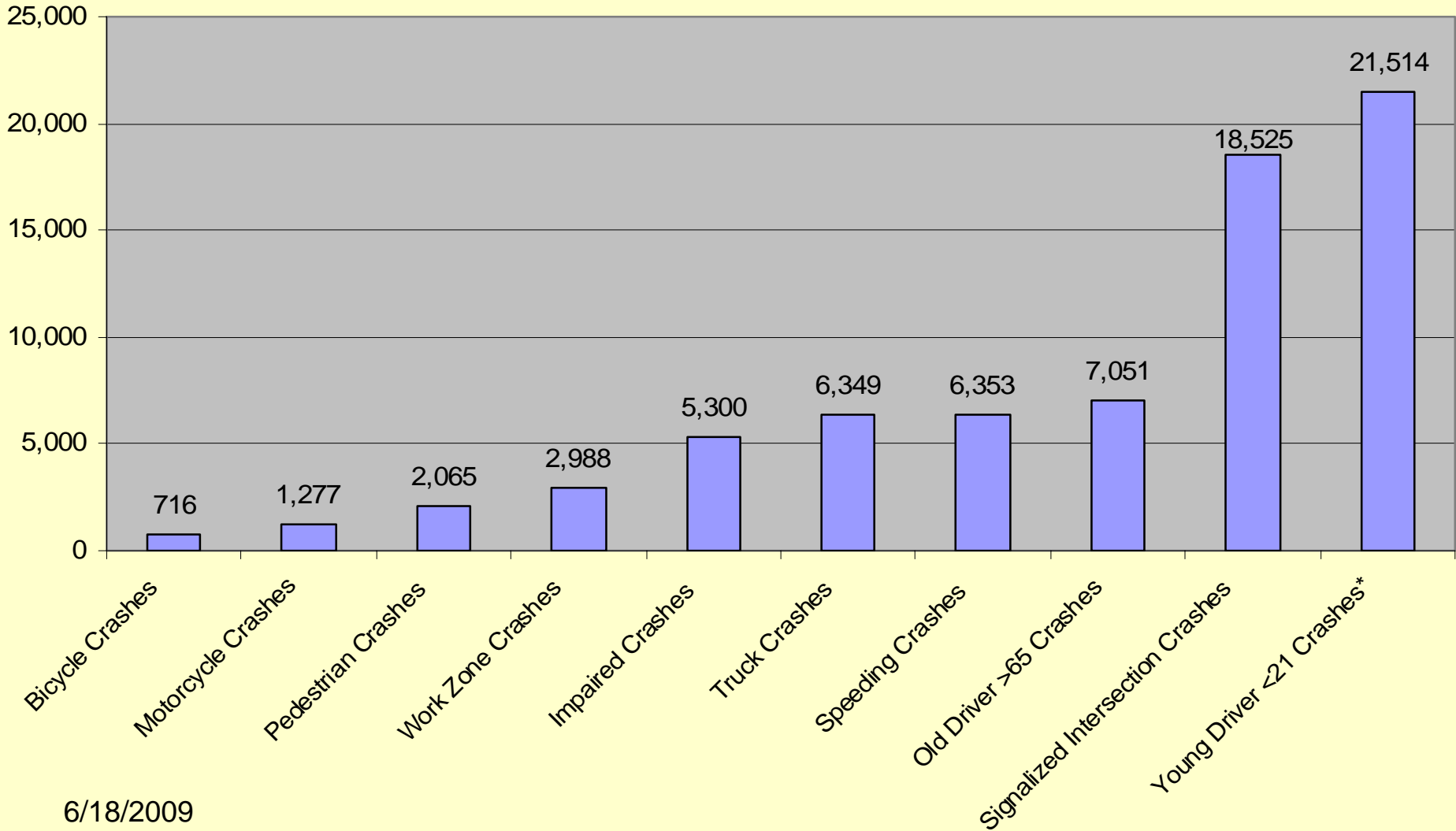
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2007 Crash Types as a Percent of Total Crashes in the Washington Region
(Total = 82,024)

Crash Type	Percent
Bicycle Crashes	0.9%
Motorcycle Crashes	1.6%
Pedestrian Crashes	2.5%
Work Zone Crashes	3.6%
Impaired Crashes	6.5%
Truck Crashes	7.7%
Speeding Crashes	7.7%
Old Driver >65 Crashes	8.6%
Signalized Intersection Crashes	22.6%
Young Driver <21 Crashes*	26.2%
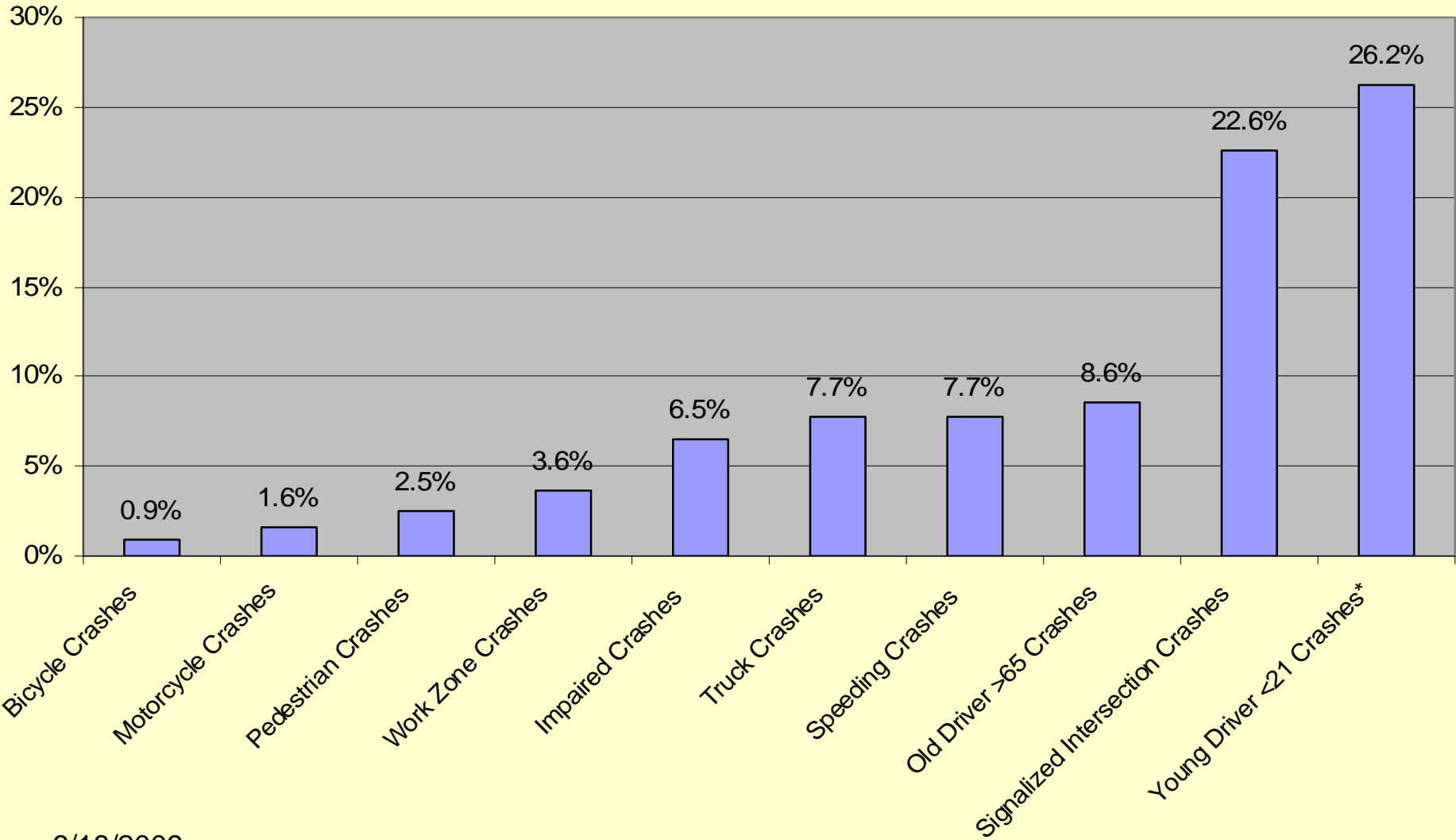
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Conclusions

- Regional Fatalities/100,000 are declining slowly
- Injuries/100,000 are declining a little faster
- Significant differences in Fatality, Injury & Crash rates between the States
  - Maryland has the highest death rate
  - DC has the highest injury rate
- As measured by crashes, young drivers and signalized intersections stand out as traffic safety issues

Sources

- DDOT – Traffic Safety Report Statistics (2005-2007), SHSP

- MHSO – County Spreadsheets, Issue Area Spreadsheets

- VDOT – Access database of Statewide crashes

Caveat Emptor

- Missing data
  - DC publishes deaths, injuries, and crashes by mode and crash type
  - Maryland publishes fatal *crashes*, injury *crashes,* and crashes by mode and crash type
  - Apples and Oranges
- VDOT Access Database
  - Good: Custom Queries
  - Bad: Unfamiliar database, software = opportunities for error

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Next Steps

- Get at least deaths and injuries for all modes and crash types
  - In many cases fatalities and injuries tell a different story from crash rates
  - Motorcyclists, pedestrians

- Check Access Queries
  - More than one route to an answer
  - Data quality may vary

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