



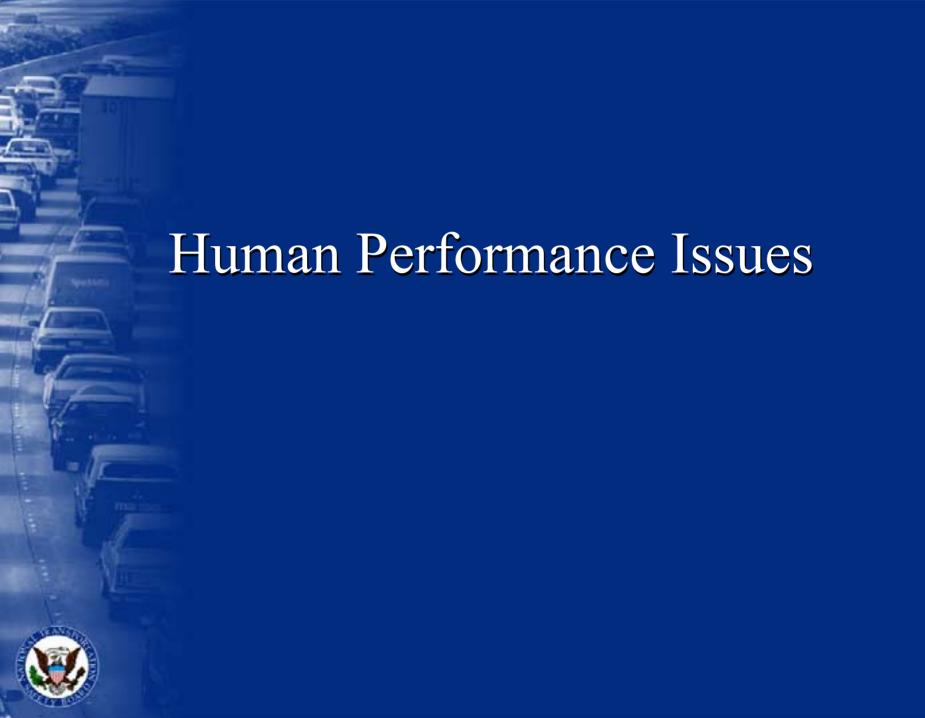


Santa Monica Accident • 10 fatalities • 63 minor to serious injuries Buick driver and Mercedes driver and passenger uninjured

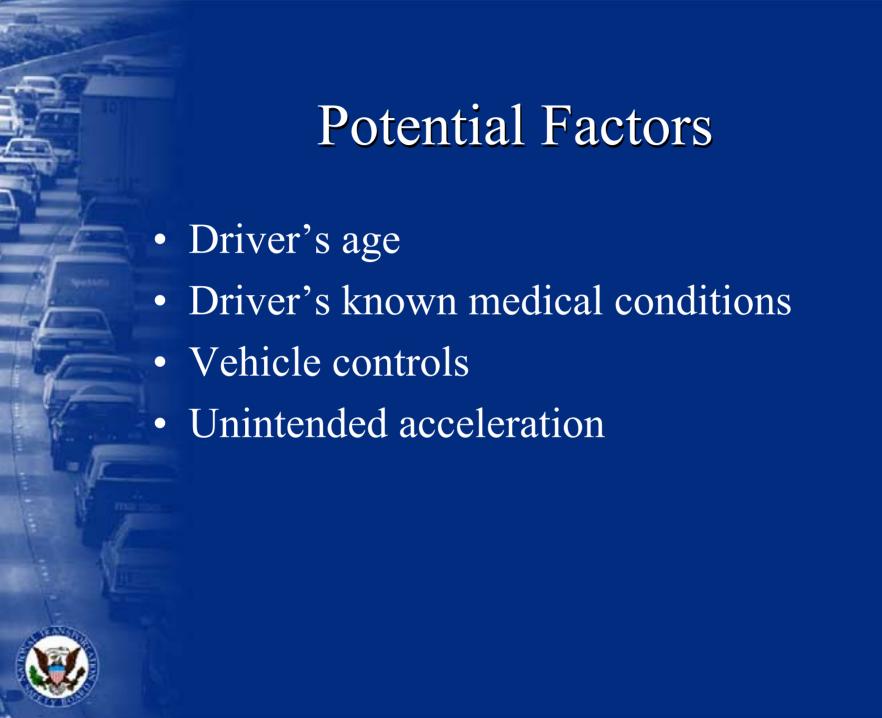
- No problems with weather, fatigue, alcohol, or drug use by driver
- No mechanical problems with vehicle







Driver Information • 86-year-old male • Long-term resident of area • Familiar with Farmers' Market Owned vehicle for over 10 years • Valid California license at time of accident



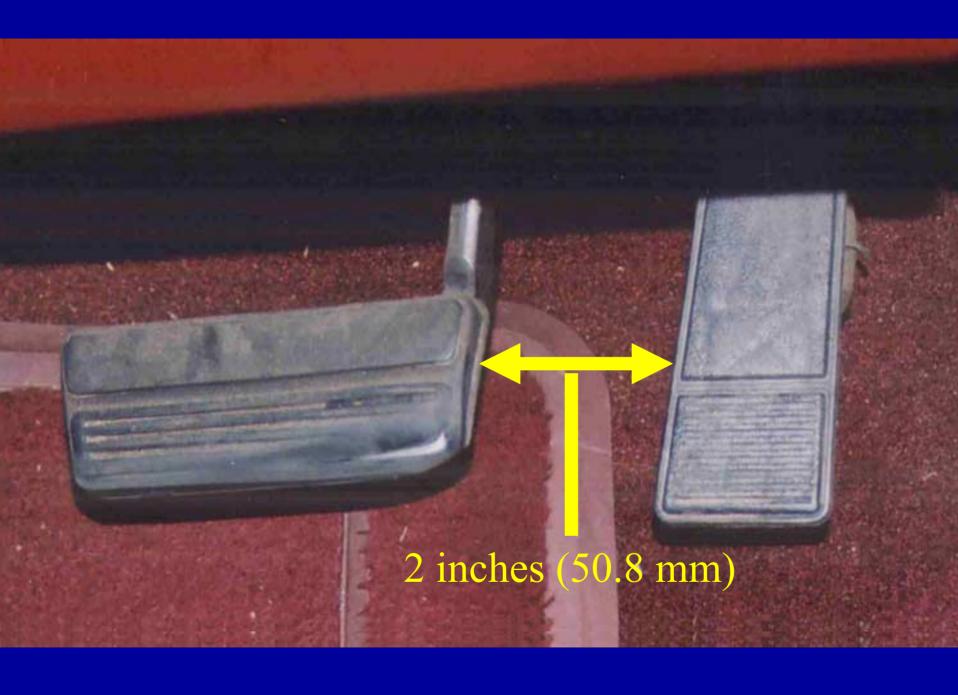
Driver's Age • 86 years old Physical and cognitive changes associated with age • No evidence of cognitive deficits No in-depth interview with driver

Known Medical Conditions

- Some impaired mobility but no link to driving ability or accidents
- Postaccident diagnosis of a heart condition
 - > No reported loss of consciousness
 - > Driver aware of market and took action
- No illicit or prescription performanceimpairing substances detected









Unintended Acceleration

- Vehicle accelerates suddenly for no apparent reason with seeming loss of braking
- No common mechanical defect
- Found to be driver-related
- Cognitive issue, not physical one
- Can happen to anyone



Components of Unintended Acceleration

- Inadvertent activation
 - Usually meant to press brake
 - > Due to position, force, speed, and so forth
- Failure to detect the error
 - > Panic/hypervigilance
 - > Habitual response
- Driver is certain correct control activated; error magnifies, increasing stress

Unintended Acceleration in This Accident

- Mercedes violated Buick driver's expectations
- Buick driver's rapid, forceful movement to brake resulted in execution error
- Stress increased
- Did not detect he was on accelerator
- Resorted to habitual response
- Witnesses report racing and revving engine





Highway Issues





Temporary Traffic Control Plan

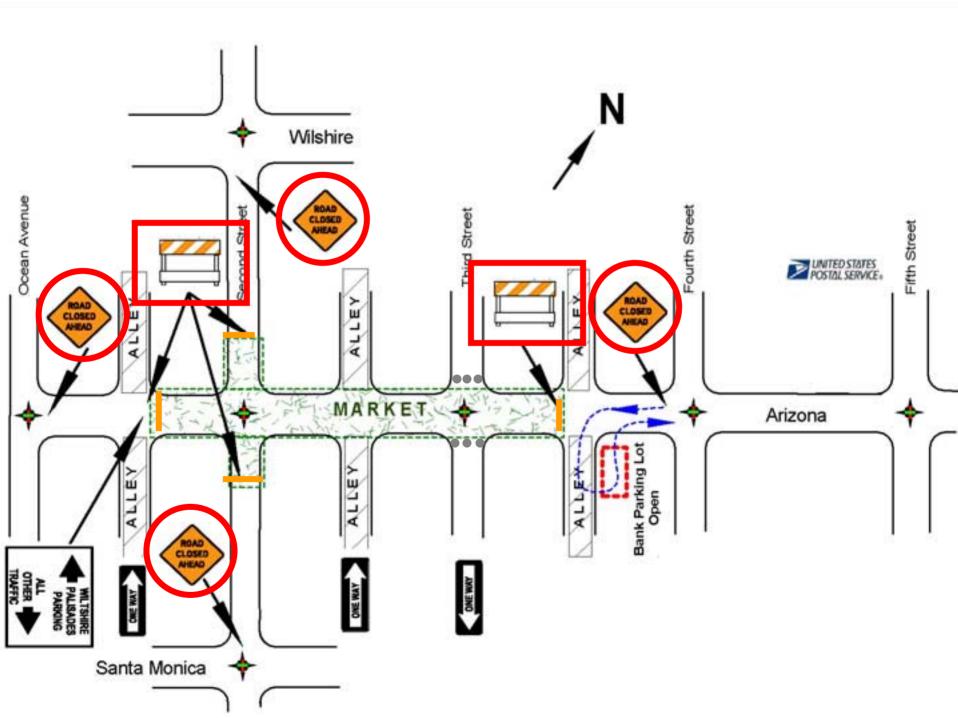
- Developed in 1981
- Updated in 1986
- Did not conform to MUTCD,
 Caltrans Traffic Manual, or Santa Monica's WATCH manual

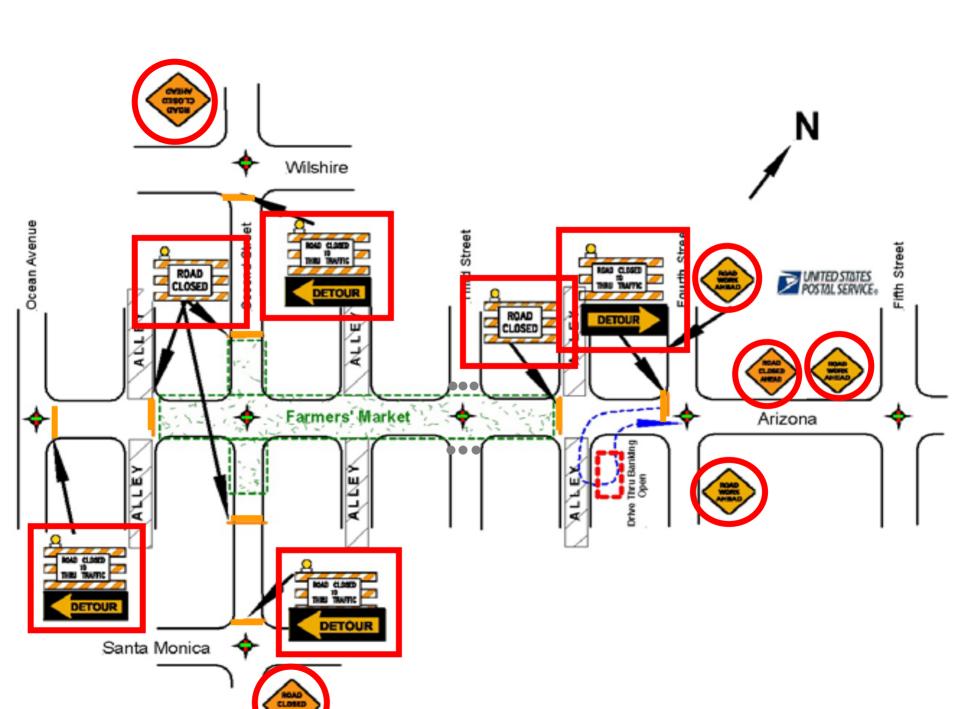












Rigid Barrier Systems

- Additional signs and Type III
 barricades would not have prevented
 accident
- Separating pedestrians from vehicular traffic is key
- Market operated on regular basis since 1981
- Rigid but removable barrier system possible

Bollards

Thick, low vertical post to exclude or

divert motor vehicles



Santa Monica



New Orleans





Event Data Recorders



1992 Buick LeSabre

Additional Data from Event Data Recorder

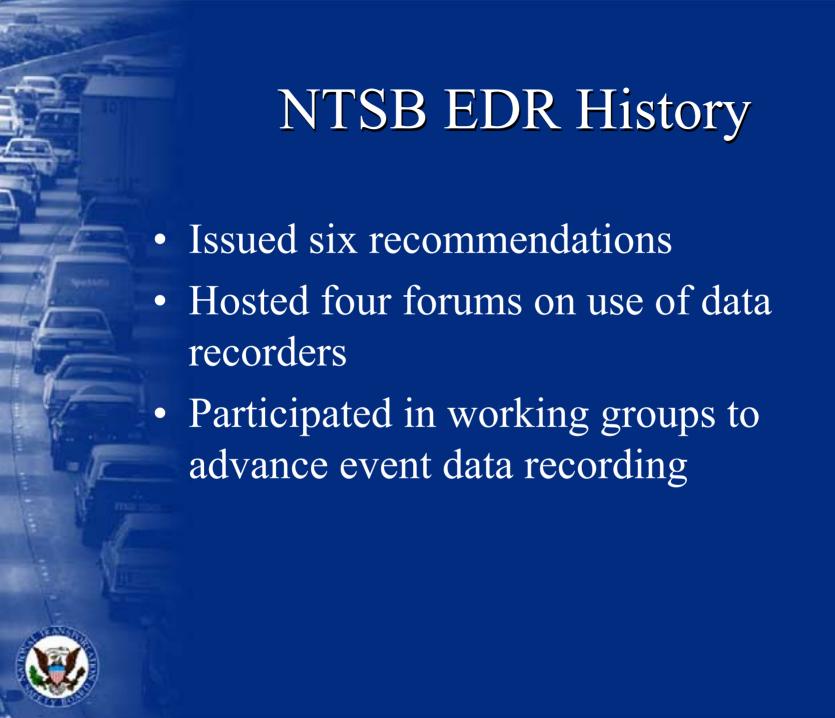
- Driver's actions
 - > As he left the post office
 - Regarding Mercedes collision
 - ➤ While traversing market
- How the vehicle was brought to a stop





Electronic Data Recorders

- Manufacturers installing
- No standards
- Vary among manufacturers





NHTSA EDR Notice of Proposed Rulemaking

- Aid in investigation of crashes and injuries
- Assist to better define and address safety problems
- Improve safety systems and standards
- No requirement for installation or use



NHTSA EDR Notice of Proposed Rulemaking

- Data elements
- Data format
- Survivability
- Publicly available to crash investigators
- Standard statement in owner's manual
- Applicable to voluntarily installed EDRs
- No requirement for EDR installation

