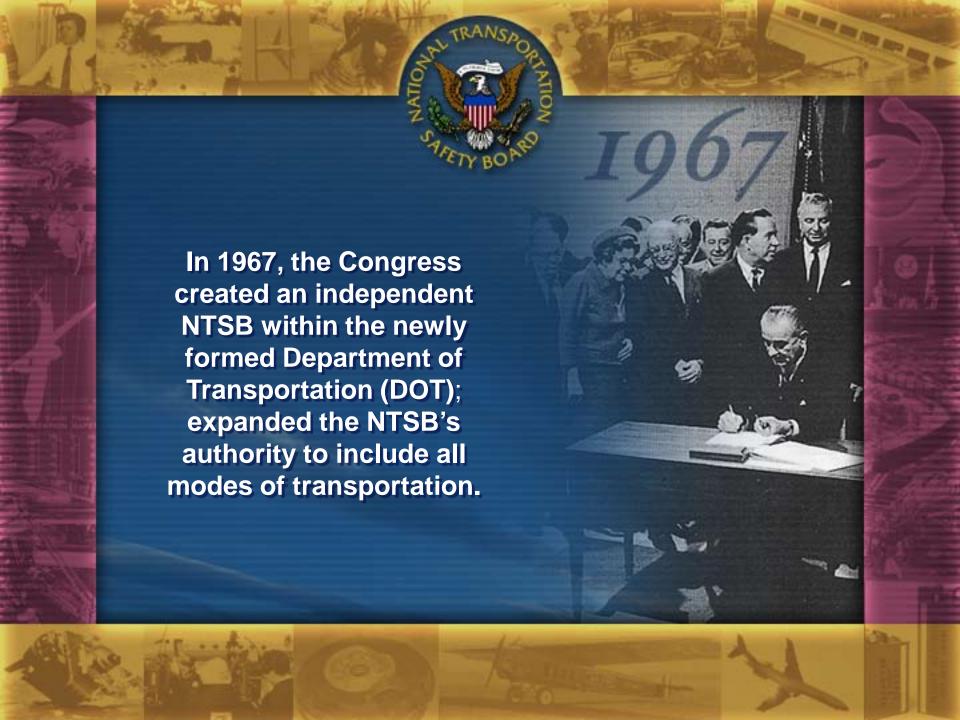


NTSB National Transportation Safety Board

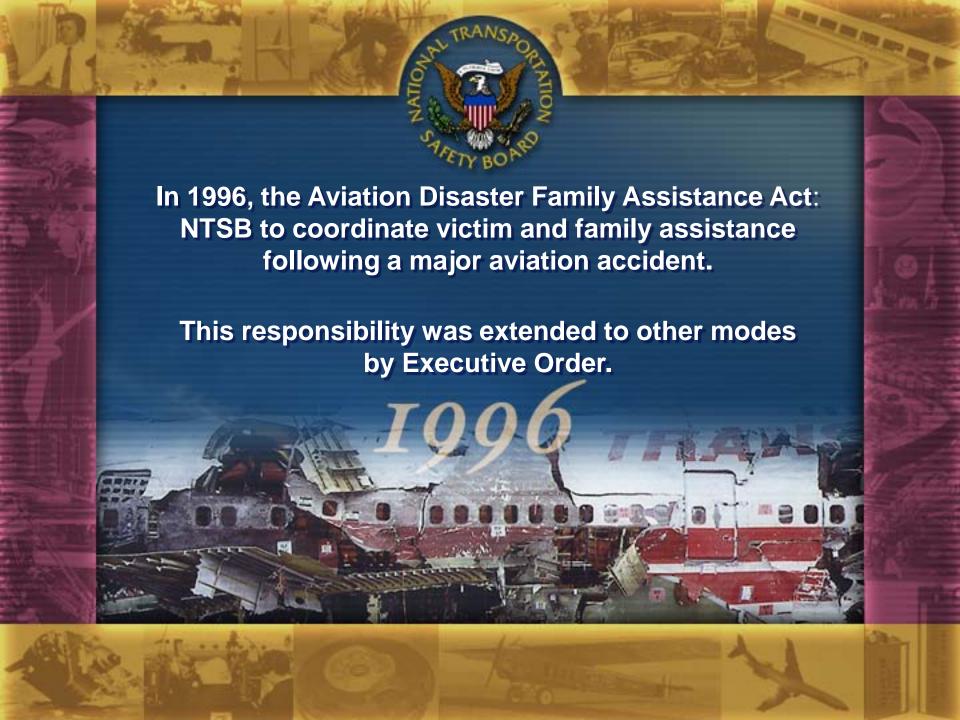
Enhancing Motorcycle Safety: An NTSB Perspective

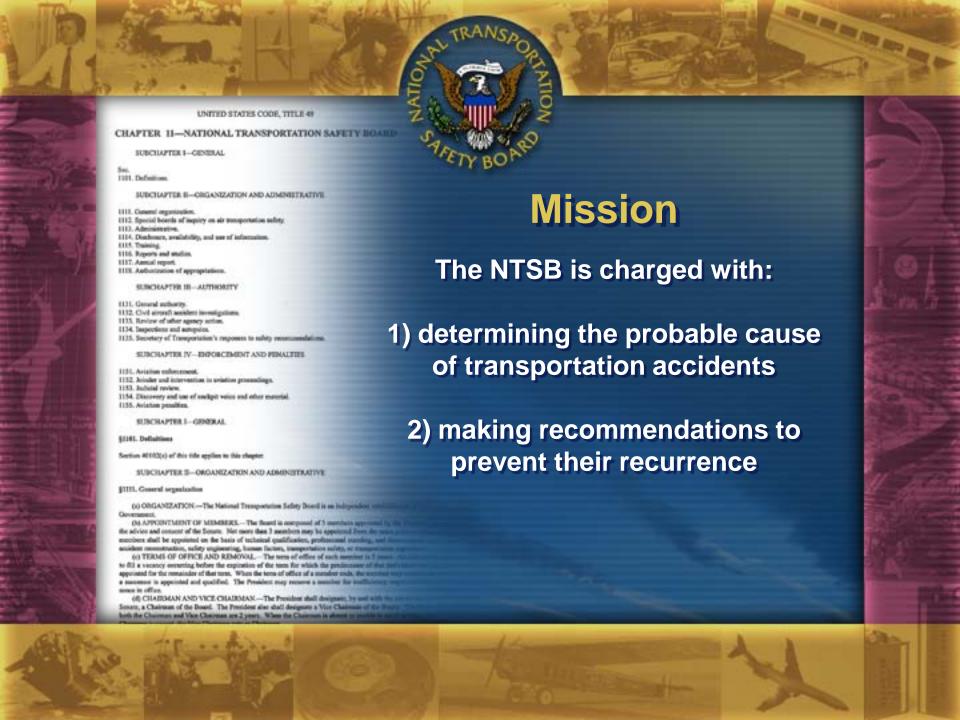
Motorcycle Industry Council 2010 Annual Communication Symposium

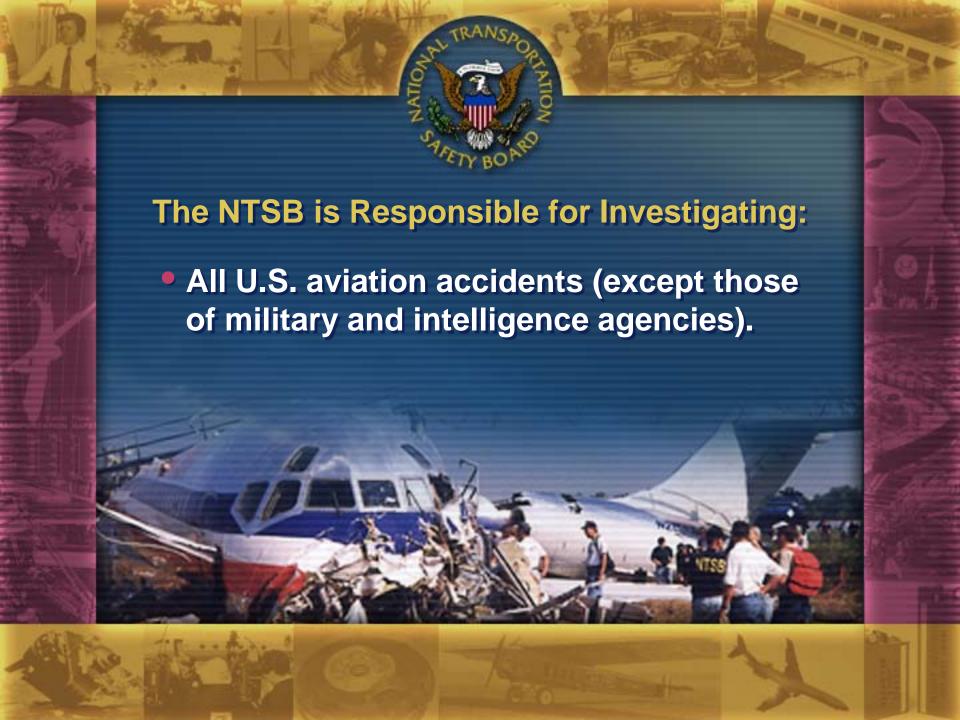
Mark R. Rosekind, Ph.D. Board Member



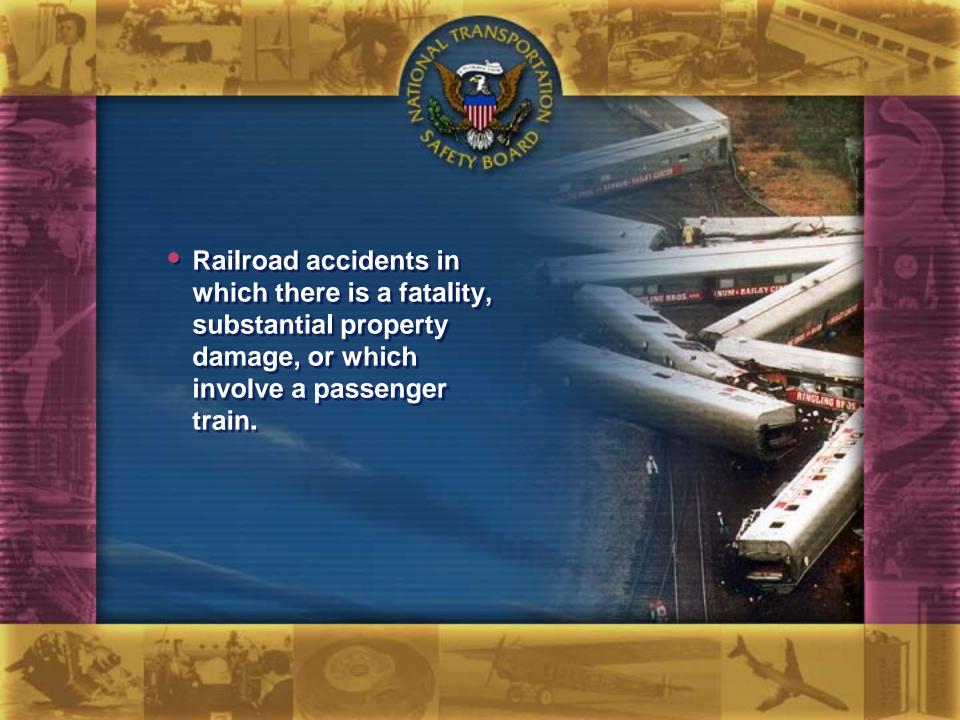




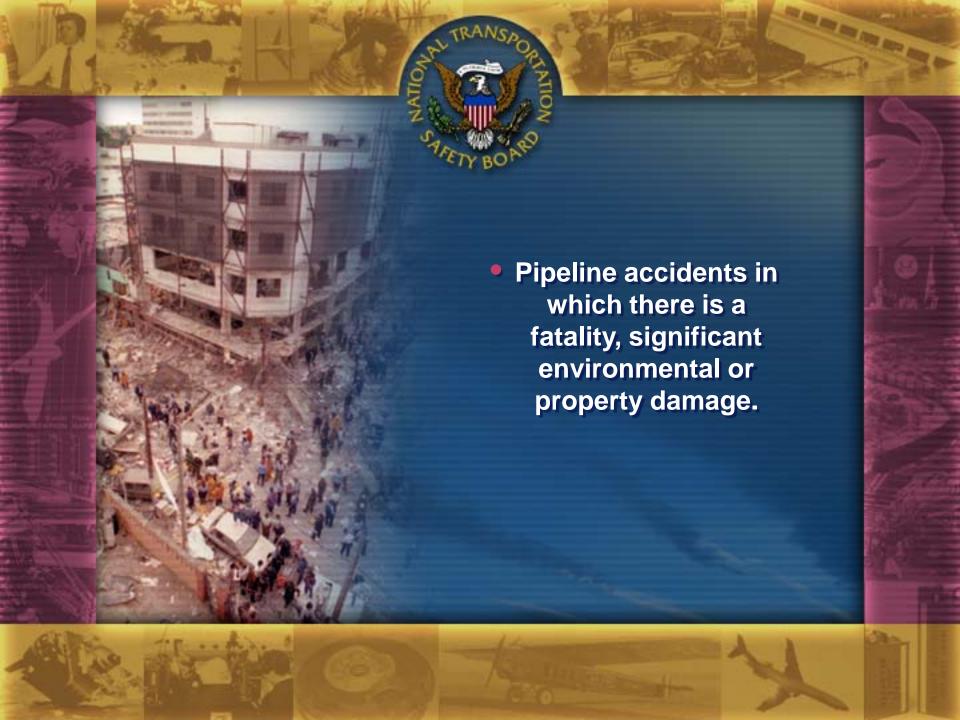








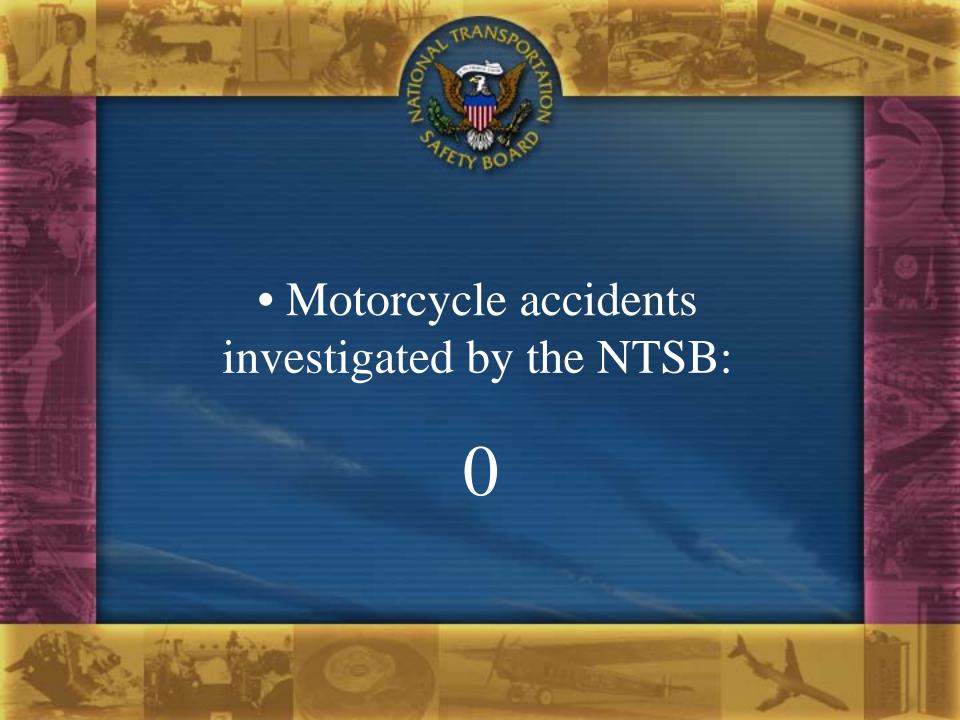












NTSB Interest in Motorcycle Safety

- Past decade, motorcycle fatalities increased by over 100%
- Motorcycle non-fatal injuries increased by over 95%
- Motorcycle fatalities >2X # of deaths in aviation, rail, marine, pipeline combined!
- < 1% of traffic but 13% of total fatalities



Motorcycle Fatalities: 2009

- 16% decrease!!
- 5,312 (2008) to 4,462 (2009)
- 850 lives
- 1st decrease in 12 years

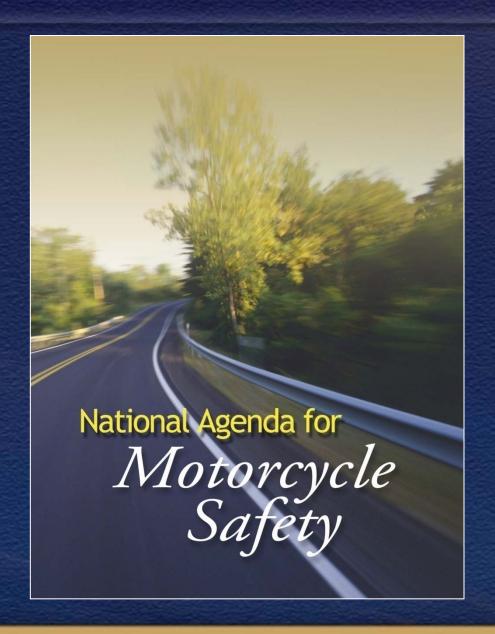


Motorcycle Injuries: 2009

- 6.3% decrease!
- 96,000 (2008) to 90,000 (2009)
- 6,000 fewer injuries



NAMS - November 2000





NAMS Recommendations

- 82 recommendations
- 3 categories:
 - urgent, essential, necessary
- No official mechanisms to:
 - track implementation
 - evaluate effectiveness



Example NAMS Action Items

- Education and training
- Motorcycle safety awareness
- Driving under the influence
- Distractions
- Graduated licensing requirements
- Improved safety equipment requirements (e.g.,): gloves, leathers, shoes, armor



NTSB Comments on NAMS

- Reprioritize NAMS recommendations based on objective criteria; known safety outcomes
- NHTSA implement an action plan for states/others for high NAMS priorities
- Data collection needs





NTSB Public Forum

MOTORCYCLE SAFETY











September 12-13, 2006 NTSB Boardroom and Conference Center, Washington, DC



NTSB Recommendation: Data

- NTSB recommendation to FHWA:
 - improve ridership data
 - # of registered motorcycles
 - # of miles traveled
- Data gathering is ad hoc
- Data critical to measuring success



More Motorcycle Safety Efforts

- FHWA and NHTSA co-hosted Motorcycle Travel Symposium (October 2007)
- FHWA 2008:
 - Traffic Monitoring Guide
 - travel data collection
 - reporting practices



Efforts...

- NAMS, FHWA, NHTSA, NTSB . . .
- Industry groups/efforts!
 - Motorcycle Industry Council
 - Motorcycle Safety Administrators
 - Motorcycle Safety Foundation
 - Manufacturers
 - Distributors
 - Allied vendors
 - Many others
- Reduce ongoing toll of motorcycle crashes, injuries, and deaths



Helmets Save Lives

- DOT-compliant helmets:
 - reduce overall risk of dying in a crash by 37%
 - reduce the need for ambulance, hospitalization, intensive care, rehabilitation, long-term care

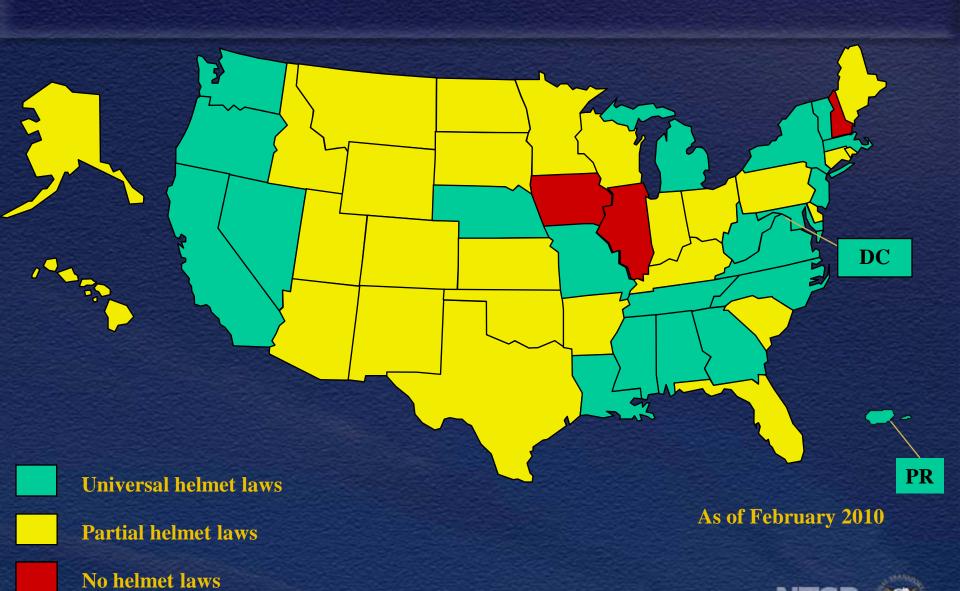


Helmets Affect Everyone

- Family and friends (death/injury)
- \$12+ billion economic costs
- \$310,000 cost/crash for unhelmeted riders
 - helmeted riders <1/4 this cost



Helmet Law Status for the United States



NTSB 😰

Repeal or Weaken Mandatory Laws

Helmet use declines

Dramatic increase in deaths

- Increase in traumatic head injuries
- Re-enact law: reduce deaths/injuries



NTSB Recommendation

 All states require all motorcycle operators and passengers to wear a helmet that meets federal standards

- One of the most controversial issues
 - in transportation safety
 - addressed by the NTSB



Success requires . . .

A culture change that supports different attitudes and behavior





NTSB