A Data-Based Pedestrian Safety Program

David Henderson
Miami-Dade MPO

Rudin Center/FHWA Program on Pedestrian Safety Peer-to-Peer Workshop in Partnership with NACTO
September 28, 2010
The Projects

- Large City Jurisdiction Demonstration and Evaluation Program for Pedestrian Safety (NHTSA)

- Pedestrian Safety Engineering and Intelligent Transportation System-Based Countermeasures Program for Reduced Pedestrian Fatalities, Injuries, Conflicts and Other Surrogate Measure (FHWA)
GIS Data

Miami-Dade County Pedestrian Crashes 1996-2000
Ped. Crash

Miami-Dade County Pedestrian Crashes 1996-2000
Ped. Crashes per Acre
0 - 0.038
0.038 - 0.076
0.076 - 0.114
0.114 - 0.152
0.152 - 0.19
0.19 - 0.227
0.227 - 0.265
0.265 - 0.303
0.303 - 0.341
No Data

1 0 1 2 Miles

1 0 1 2 Miles
High-Crash Zones

Liberty City/Little Haiti

Little Havana

South Miami Beach

Miami-Dade High-Pedestrian Crash Zones
High-Crash Zones
High-Crash Zone Characteristics

Age of Pedestrian vs. No. of Crashes for Liberty City-Little Haiti, Little Havana, and South Beach.
Education: Children
Education: Children

- 144,000 students educated (2009)
- Trauma center admissions reduced 63%
Education: Transit Riders

Walk Safe. miami

How to read pedestrian signals

- Look, and wait for the signal.
- Be sure the signal is on the side you’re crossing.
- If the signal is off or broken, use the nearest signal.

Walk Safe. miami

What You Can’t See Can Hurt You!

- Be aware of your surroundings.
- Walk with purpose.
- Stay alert.

Walk Safe. miami

Turning Cars Can Come Out Of Nowhere

- Before you cross the street look for cars in all directions, including behind you.
- Don’t cross in front of a car unless you are sure the driver will stop.

Walk Safe. miami

MetroBus and MetroRail Users: Think about pedestrian safety before and after your transit trip. Don’t cross the street until you arrive at your destination.

Walk Safe. miami

Always look to the left, to the right, and left again before stepping off the curb.
Left-right-left is the best way to stay safe when crossing the street.

Walk Safe. miami

Half of the people killed while walking are out after dark. Stay safe by staying visible. When you use the night, these things can be a literal life saver.

- Wearing a white shirt or pants.
- Using bright lights for your vehicle or bicycle.
- Crossing at a marked crosswalk.
- Carrying a flashlight.
Education: The Elderly

Walking Through the Years
Pedestrian Safety for the Older (65+) Adult
National Highway Traffic Safety Administration
Federal Highway Administration

Caminando a Traves de los Anos
Seguridad para Peatones de Tercera Edad (65+)
Education
Education: Little Haiti

Kèk Ti Konsey Pou Pyeton Kapab Mache An Sekirite

Pandan Wap Travese Lari
Kontinye Gade Lan tout Direksyon Le Wap Travese Lari Pou Wa Le Machin Ap Vire

Anvan-W Travese Devan Yon Machin Ki Kanpe
Astre-W Chofe Machin Lan Wew Fe Atansyon Machin Kap Pase A Rebò Lot Machin Ki Kanpe

Anvan-W Travese Deyè Yon Machin
Si-W Genyen Pou Travese Deyè Yon Machin Astirè-W Ke Machin Lan Pap Fe Bak
Koute Si ou Tande Bri Motè Obyen Si Limyè Bak Machin Lan Limen
Pran Menm Prekonsyon Le-W Lan Yon Pakin
Enforcement
Engineering

South Miami Beach Pedestrian Crashes (1996-2000)

South Miami Beach High Pedestrian Crash Corridors
Engineering
Engineering
Engineering
Engineering
Engineering
Engineering

Most Dangerous Locations for Elderly Pedestrians - Miami Dade County

Legend
- Dangerous Locations for Elderly Pedestrians
- Major Roads

Percentage of Elderly Population
- 0 - 20%
- 20 - 40%
- 40 - 60%
- 60 - 80%

Legend
- Dangerous Locations for Elderly Pedestrians
- Major Roads

Percentage of Elderly Population
- 0 - 20%
- 20 - 40%
- 40 - 60%
- 60 - 80%

Legend
- Dangerous Locations for Elderly Pedestrians
- Major Roads

Percentage of Elderly Population
- 0 - 20%
- 20 - 40%
- 40 - 60%
- 60 - 80%
Results: Pedestrian Fatalities and Injuries

Pedestrian Fatalities and Injuries
Miami-Dade County 1990-2009

Ped. Fatalities
Ped. Injuries


Year
Results: Pedestrian Fatalities and Injuries

Miami-Dade County Pedestrian Injury Rates: 1990-2009
Results: Pedestrian Fatalities and Injuries

Miami-Dade County Pedestrian Fatality Rates: 1990-2009

Fatalities/100K Pop.

Results: Pedestrian Fatalities and Injuries

Pedestrian Injuries 5-14 Years For Large Florida Counties

- Broward
- Duval
- Hillsborough
- Miami-Dade
- Orange
- Palm Beach
- Pinellas
Thank You!