Florida Strategic Highway Safety Plan

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“Driving Down Fatalities Through Knowledge Sharing”
Strategic Highway Safety Plan
Performance Review

DRIVING DOWN FATALITIES

August 2015    FDOT State Safety Office
Strategic Highway Safety Plan

SHSP Update

2014 Annual Averages

Discussion Items

- 5% Reduction in Rolling 5-Year Averages of Fatalities and Serious Injuries

- Emphasis Area (EA) Overview

- EA 2014 Annual Averages and Target Thresholds with Fatal and Serious Injuries numbers broken down by District
Strategic Highway Safety Plan 2012 SHSP

- Measures 5-year average fatalities and serious injuries, using 2006-2010 as baseline
- Overall goal is 5 percent reduction in 5-year (or 3-year) moving average of fatalities and serious injuries

Source: Florida Strategic Highway Safety Plan; Page 2, Figure 1
Strategic Highway Safety Plan
2012 SHSP

Four “E”s of Safety

➢ Engineering
➢ Education
➢ Enforcement
➢ Emergency Medical Services
Strategic Highway Safety Plan
2012 SHSP

Emphasis Areas – goals are to reduce by 5%/year

- Aggressive Driving (3-year average)
- Intersection Crashes
- Lane Departure Crashes (3-year average)
- Vulnerable Road Users (pedestrian, bicycle, motorcycle)
- At-Risk Drivers (young (15-19) and aging (65 and up) road users)
- Impaired Driving (suspected alcohol and suspected drug use)
- Distracted Driving (3-year average – baseline 2011-2013)
- Traffic Data
SHSP Preliminary Performance
2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

Relation of Statewide Combined Serious Injuries and Fatalities to Reduction Goal per Emphasis Area

Goal is achieved at 0, chart shows the degree to which the goal has been exceeded or missed.

- At-Risk Drivers - Aging -18%
- VRU - Motorcyclists -10%
- VRU - Bicyclists -38%
- VRU - Pedestrians -16%
- Intersections 0%
- All Serious and Fatal -3%
- Distracted -15%
- Lane Departure -3%
- Impaired 7%
- At-Risk Drivers - Young 22%
- Aggressive Driving 3%
Average Serious Injuries and Fatalities
Statewide Annual 2006-10, 2007-11, 2008-12, 2009-13 and 2010-14

Average Count of Serious Injuries and Fatalities

\[ \text{Average Count of Serious Injuries and Fatalities} \]

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

NOTE: Goal is for Serious Injuries and Fatalities to be less than threshold value
SHSP Preliminary Performance Per District

2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

Annual Average Serious Injuries and Fatalities per District for 2006-10, 07-11, 08-12, 09-13 and 10-14

Serious Injuries and Fatalities

5% Annual Reduction Goal
SHSP Preliminary Performance Per District
2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

Pedestrians per District for 2006-10, 07-11, 08-12, 09-13 and 10-14

STATEWIDE

Annual Average Count of Serious Injuries and Fatalities

△ Serious Injuries and Fatalities

5% Annual Reduction Goal
### SHSP Preliminary Performance Per District 2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

#### Serious Injuries and Fatalities

<table>
<thead>
<tr>
<th></th>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>D1</td>
<td>854</td>
<td>839</td>
<td>871</td>
<td>907</td>
<td>964</td>
</tr>
<tr>
<td>D2</td>
<td>811</td>
<td>770</td>
<td>732</td>
<td>964</td>
<td>732</td>
</tr>
<tr>
<td>D3</td>
<td>695</td>
<td>660</td>
<td>695</td>
<td>732</td>
<td>660</td>
</tr>
<tr>
<td>D4</td>
<td>196</td>
<td>196</td>
<td>196</td>
<td>196</td>
<td>196</td>
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<tr>
<td>D5</td>
<td>200</td>
<td>203</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>D6</td>
<td>200</td>
<td>203</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>D7</td>
<td>200</td>
<td>203</td>
<td>200</td>
<td>200</td>
<td>200</td>
</tr>
</tbody>
</table>

#### Bicyclists (and passengers)

Per District for 2006-10, 07-11, 08-12, 09-13 and 10-14

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database
SHSP Preliminary Performance Per District
2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

Motorcyclists (and passengers) per District for 2006-10, 07-11, 08-12, 09-13 and 10-14

Serious Injuries and Fatalities

5% Annual Reduction Goal

Annual Average Count of Serious Injuries and Fatalities

STATEWIDE 2,460

06-10 07-11 08-12 09-13 10-14
D1 D2 D3 D4 D5 D6 D7 Turnpike Enterprise
SHSP Preliminary Performance Per District
2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

Annual Average Count of Serious Injuries and Fatalities

Associated with **Intersections**
per District for 2006-10, 07-11, 08-12, 09-13 and 10-14

Serious Injuries and Fatalities

% Annual Reduction Goal

SHSP Preliminary Performance Per District
2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

Annual Average Count of Serious Injuries and Fatalities

Associated with **Intersections**
per District for 2006-10, 07-11, 08-12, 09-13 and 10-14

Serious Injuries and Fatalities

% Annual Reduction Goal
SHSP Preliminary Performance Per District
2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database.

Associated with Lane Departure
per District for 2008-10, 09-11, 10-12, 11-13 and 12-14

Annual Average Count of Serious Injuries and Fatalities

Serious Injuries and Fatalities

- 5% Annual Reduction Goal

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database.
SHSP Preliminary Performance Per District
2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

Associated with **Drivers Aged 65 & Over** per District for 2006-10, 07-11, 08-12, 09-13 and 10-14

Annual Average Count of Serious Injuries and Fatalities

- **STATEWIDE**
  - 2006-10: 4,601
  - 2007-11: 4,407
  - 2008-12: 4,375
  - 2009-13: 4,367
  - 2010-14: 4,417

**5% Annual Reduction Goal**

**Serious Injuries and Fatalities**

- **D1**
  - 2006-10: 393
  - 2007-11: 373
  - 2008-12: 354
  - 2009-13: 336
  - 2010-14: 319

- **D2**
  - 2006-10: 581
  - 2007-11: 411
  - 2008-12: 319
  - 2009-13: 303
  - 2010-14: 286

- **D3**
  - 2006-10: 714
  - 2007-11: 678
  - 2008-12: 644
  - 2009-13: 612
  - 2010-14: 552

- **D4**
  - 2006-10: 741
  - 2007-11: 704
  - 2008-12: 669
  - 2009-13: 636
  - 2010-14: 604

- **D5**
  - 2006-10: 780
  - 2007-11: 740
  - 2008-12: 704
  - 2009-13: 669
  - 2010-14: 636

- **D6**
  - 2006-10: 1,138
  - 2007-11: 1,081
  - 2008-12: 1,030
  - 2009-13: 976
  - 2010-14: 927

- **D7**
  - 2006-10: 1,081
  - 2007-11: 1,027
  - 2008-12: 976
  - 2009-13: 927
  - 2010-14: 881

- **Turnpike Enterprise**
  - 2006-10: 47
  - 2007-11: 45
  - 2008-12: 43
  - 2009-13: 41
  - 2010-14: 39

**Serious Injuries and Fatalities**

**5% Annual Reduction Goal**

- **Drivers Aged 65 & Over**
  - 2006-10: 3,747
  - 2007-11: 3,944
  - 2008-12: 3,560
  - 2009-13: 3,747
  - 2010-14: 3,944
SHSP Preliminary Performance Per District
2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

Associated with Drivers Aged 15-19 per District for 2006-10, 07-11, 08-12, 09-13 and 10-14

Serious Injuries and Fatalities
5% Annual Reduction Goal
Annual Average Count of Serious Injuries and Fatalities

Associated with Impaired Drivers

STATEWIDE

Annual Average Count of Serious Injuries and Fatalities per District for 2006-10, 07-11, 08-12, 09-13 and 10-14

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

Serious Injuries and Fatalities 5% Annual Reduction Goal
SHSP Preliminary Performance Per District

Emphasis Area Changes After Crash Report Change

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

**Aggressive Driving**

<table>
<thead>
<tr>
<th>Year</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
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</thead>
<tbody>
<tr>
<td>Count</td>
<td>251</td>
<td>211</td>
<td>152</td>
<td>122</td>
<td>111</td>
<td>291</td>
<td>275</td>
<td>257</td>
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</tbody>
</table>

**Distracted Driving**

<table>
<thead>
<tr>
<th>Year</th>
<th>2006</th>
<th>2007</th>
<th>2008</th>
<th>2009</th>
<th>2010</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
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</thead>
<tbody>
<tr>
<td>Count</td>
<td>278</td>
<td>285</td>
<td>272</td>
<td>294</td>
<td>254</td>
<td>2,706</td>
<td>3,026</td>
<td>3,263</td>
</tr>
</tbody>
</table>
SHSP Preliminary Performance Per District
2012-14 Annual Averages – baseline 2011-13

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

Associated with **Aggressive Driving** per District for 2011-13 and 12-14

NOTE: The addition of a new Driver Action code of “Operated MV in an Erratic, Reckless or Aggressive Manner” in 2011 combined with the increased emphasis on aggressive driving enforcement may be responsible for an increase in identification of aggressive driving by the reporting officers starting in 2011.
SHSP Preliminary Performance Per District

2012-14 Annual Averages – baseline 2011-13

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

NOTE: Distracted Driving data for 2011 and later (New Crash Form). Driver Distraction is now a separate data element for which the officer must enter a value. On Old Form, Driver Distraction was collected as one possible driver contributing cause, required explanation in narrative.
Strategic Highway Safety Plan
Performance Review

Driving Down Fatalities

August 2015    FDOT State Safety Office
### SHSP Preliminary Performance Per District
#### 2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database. Numbers of intersections are estimated based on FDOT’s Roadway Characteristics Inventory and on the NavTeq™ data for 2011.

#### Annual 5-Year Averages for INTERSECTIONS: Local versus State

<table>
<thead>
<tr>
<th>Year Span</th>
<th>06-10</th>
<th>07-11</th>
<th>08-12</th>
<th>09-13</th>
<th>10-14</th>
<th>11-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHS Serious Injuries</td>
<td>6,316</td>
<td>5,920</td>
<td>5,729</td>
<td>5,701</td>
<td>4,863</td>
<td>n/a</td>
</tr>
<tr>
<td>SHS Fatalities</td>
<td>534</td>
<td>488</td>
<td>462</td>
<td>462</td>
<td>479</td>
<td>n/a</td>
</tr>
<tr>
<td>SHS Combined</td>
<td>6,850</td>
<td>6,408</td>
<td>6,191</td>
<td>6,163</td>
<td>5,342</td>
<td>n/a</td>
</tr>
<tr>
<td>Local Serious Injuries</td>
<td>4,571</td>
<td>4,072</td>
<td>3,717</td>
<td>3,488</td>
<td>3,148</td>
<td>n/a</td>
</tr>
<tr>
<td>Local Fatalities</td>
<td>351</td>
<td>322</td>
<td>284</td>
<td>283</td>
<td>280</td>
<td>n/a</td>
</tr>
<tr>
<td>Local Combined</td>
<td>4,922</td>
<td>4,394</td>
<td>4,001</td>
<td>3,771</td>
<td>3,428</td>
<td>n/a</td>
</tr>
</tbody>
</table>

#### Proportion of Local versus State

- **Local** 38.8%
- **SHS** 61.2%

#### Fatal and Serious Injuries per Intersection

<table>
<thead>
<tr>
<th></th>
<th>SHS</th>
<th>Local</th>
</tr>
</thead>
<tbody>
<tr>
<td>Serious Injuries</td>
<td>0.071</td>
<td>0.006</td>
</tr>
<tr>
<td>Fatalities</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Intersections

- **SHS**: 10.9%
- **Local**: 89.1%
### SHSP Preliminary Performance Per District

#### 2010-14 Annual Averages

Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database. Numbers centerline miles are certified for 2013 by the FDOT’s Transportation Statistics Office as of May 8, 2014.

#### Annual 5-Year Averages for LANE DEPARTURES:

<table>
<thead>
<tr>
<th>Year Span</th>
<th>06-10</th>
<th>07-11</th>
<th>08-12</th>
<th>09-13</th>
<th>10-14</th>
<th>11-15</th>
</tr>
</thead>
<tbody>
<tr>
<td>SHS Serious Injuries</td>
<td>4,753</td>
<td>4,304</td>
<td>3,825</td>
<td>3,468</td>
<td>2,815</td>
<td>n/a</td>
</tr>
<tr>
<td>SHS Fatalities</td>
<td>595</td>
<td>533</td>
<td>495</td>
<td>521</td>
<td>561</td>
<td>n/a</td>
</tr>
<tr>
<td>SHS Combined</td>
<td>5,348</td>
<td>4,837</td>
<td>4,320</td>
<td>3,989</td>
<td>3,376</td>
<td>n/a</td>
</tr>
<tr>
<td>Local Serious Injuries</td>
<td>3,739</td>
<td>3,318</td>
<td>3,044</td>
<td>2,896</td>
<td>2,642</td>
<td>n/a</td>
</tr>
<tr>
<td>Local Fatalities</td>
<td>454</td>
<td>416</td>
<td>389</td>
<td>399</td>
<td>420</td>
<td>n/a</td>
</tr>
<tr>
<td>Local Combined</td>
<td>4,193</td>
<td>3,734</td>
<td>3,433</td>
<td>3,295</td>
<td>3,062</td>
<td>n/a</td>
</tr>
</tbody>
</table>

#### Fatal and Serious Injuries per Centerline Mile

<table>
<thead>
<tr>
<th>SHS</th>
<th>Local</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.279</td>
<td>0.028</td>
</tr>
</tbody>
</table>

#### Proportion of Local vs. State Highway System (SHS)

- Local: 90.1%
- SHS: 50.0%
- SHS: 9.9%

**Fatal and Serious Injuries per Centerline Mile:**

- SHS: 0.279
- Local: 0.028

**Centerline Miles vs. Fatal & Serious Injuries:**

- Local: 50.0%
- SHS: 50.0%
- SHS: 9.9%
Questions?

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