

Florida Strategic Highway Safety Plan

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FDOT State Safety Engineer

November 18, 2015



Strategic Highway Safety Plan Performance Review



August 2015 FDOT State Safety Office



Strategic Highway Safety Plan SHSP Update

2014 Annual Averages

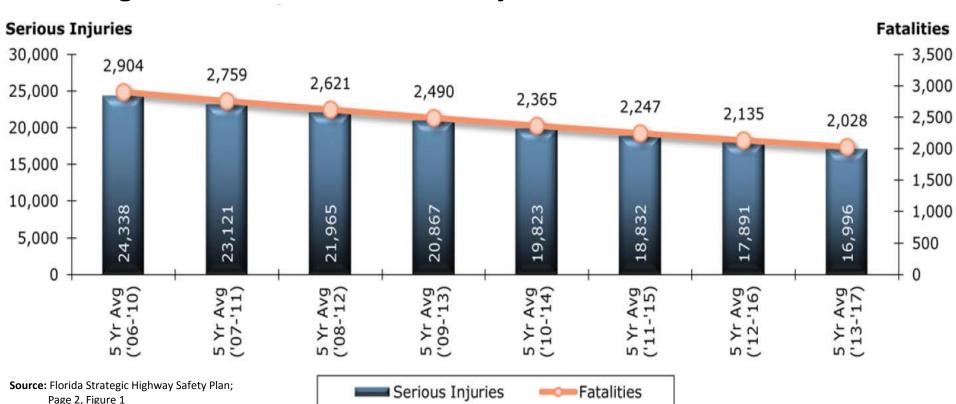
Discussion Items

- ➤ 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





Strategic Highway Safety Plan 2012 SHSP

Four "E"s of Safety

- > Engineering E

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

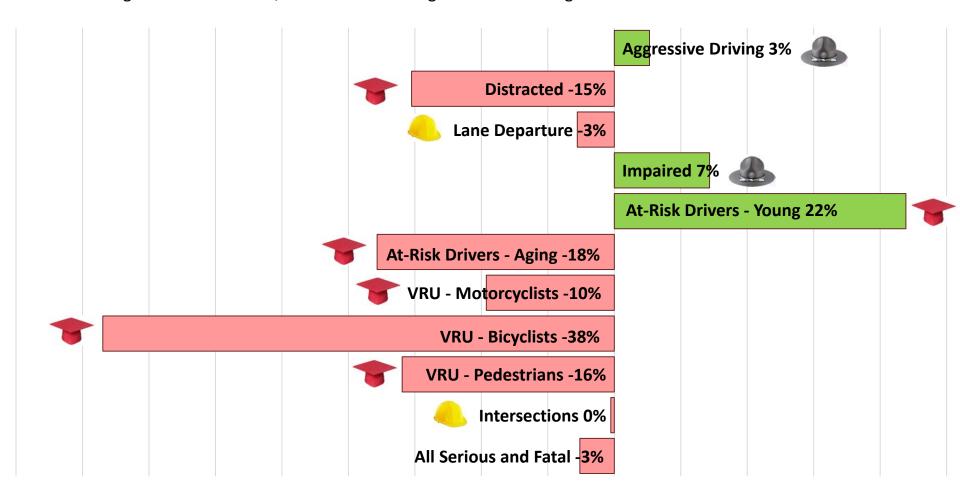


SHSP Preliminary Performance 2010-14 Annual Averages

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



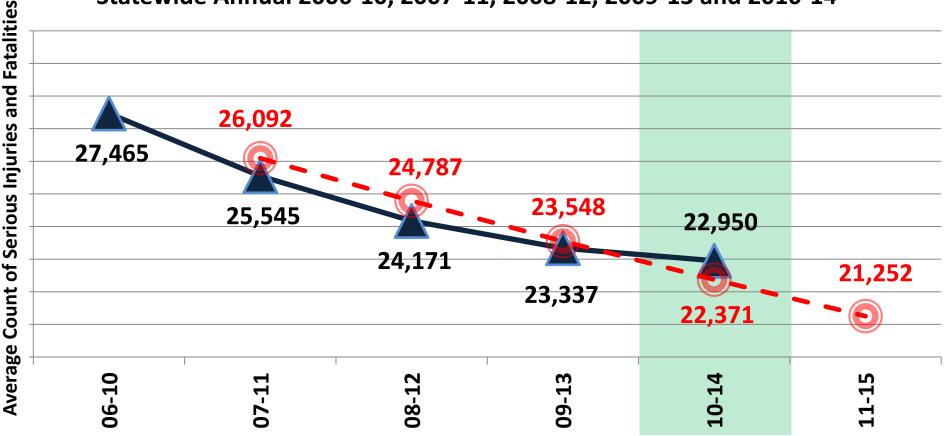


SHSP Preliminary Performance 2010-14 Annual Averages

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

Average Serious Injuries and Fatalities

Statewide Annual 2006-10, 2007-11, 2008-12, 2009-13 and 2010-14



→ Serious Injuries and Fatalities → 5% Annual Reduction Goal

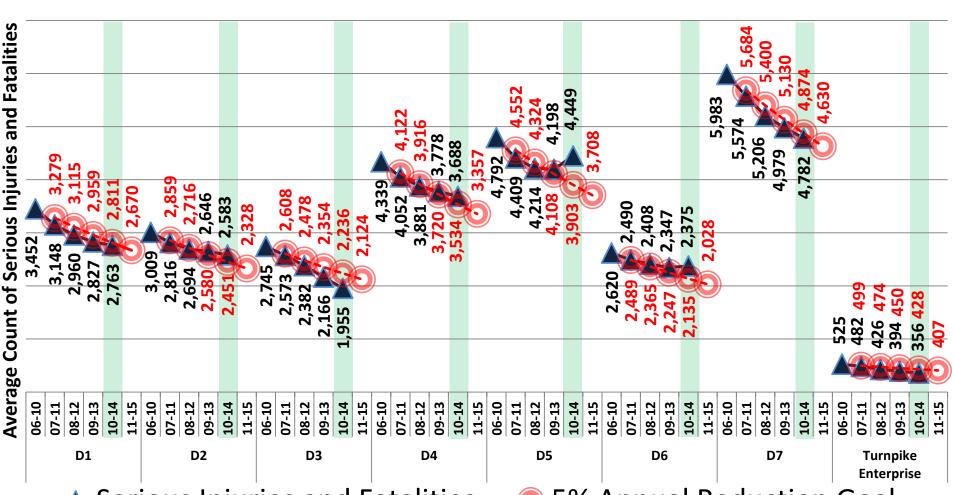
NOTE: Goal is for Serious Injuries and Fatalities to be less than threshold value



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

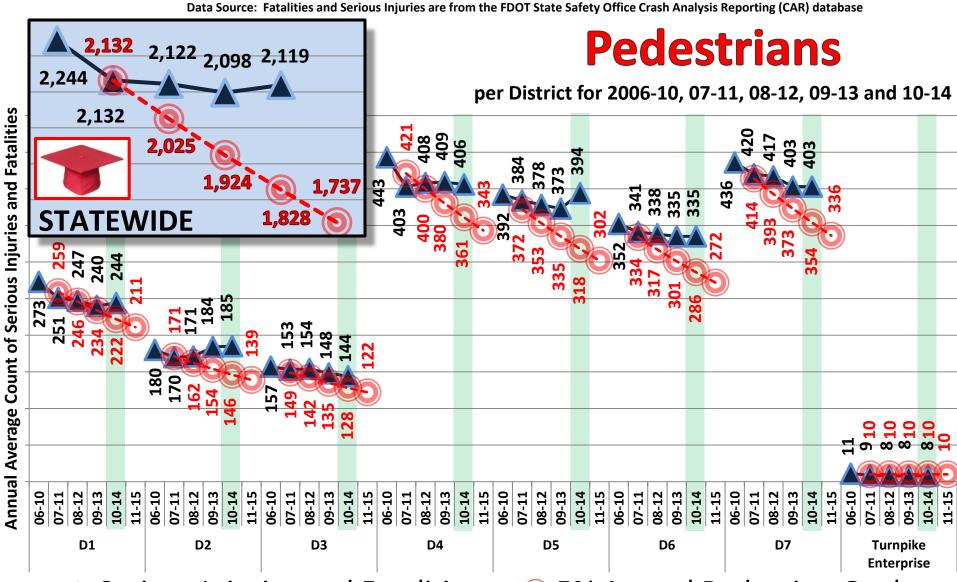
Annual Average Serious Injuries and Fatalities

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



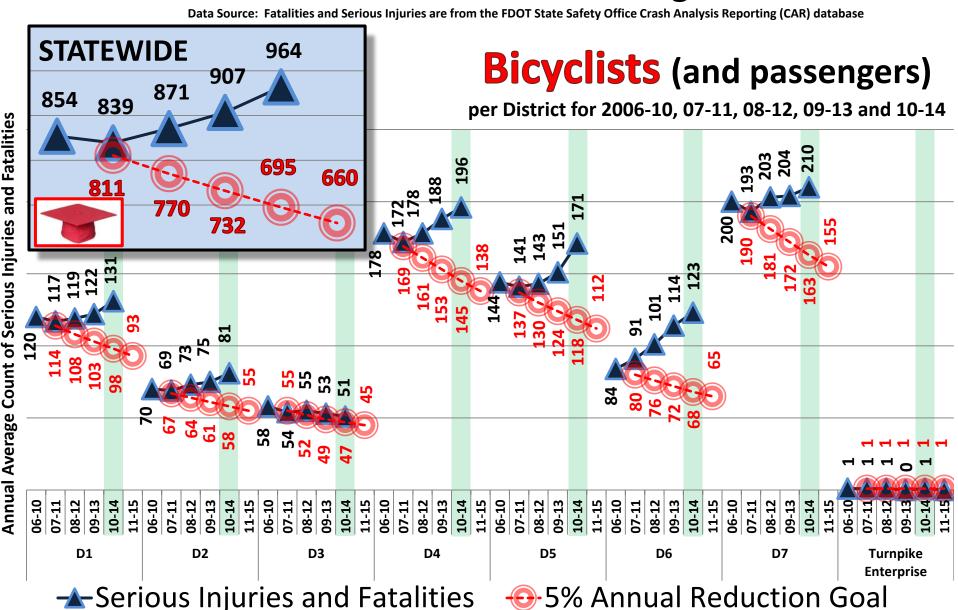
→ Serious Injuries and Fatalities ← 5% Annual Reduction Goal





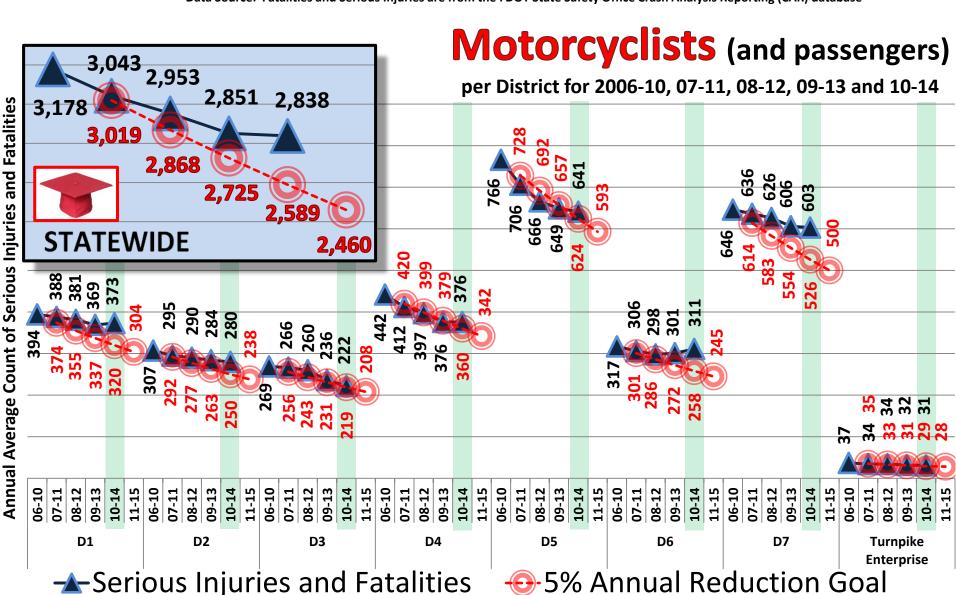
→ Serious Injuries and Fatalities ← 5% Annual Reduction Goal



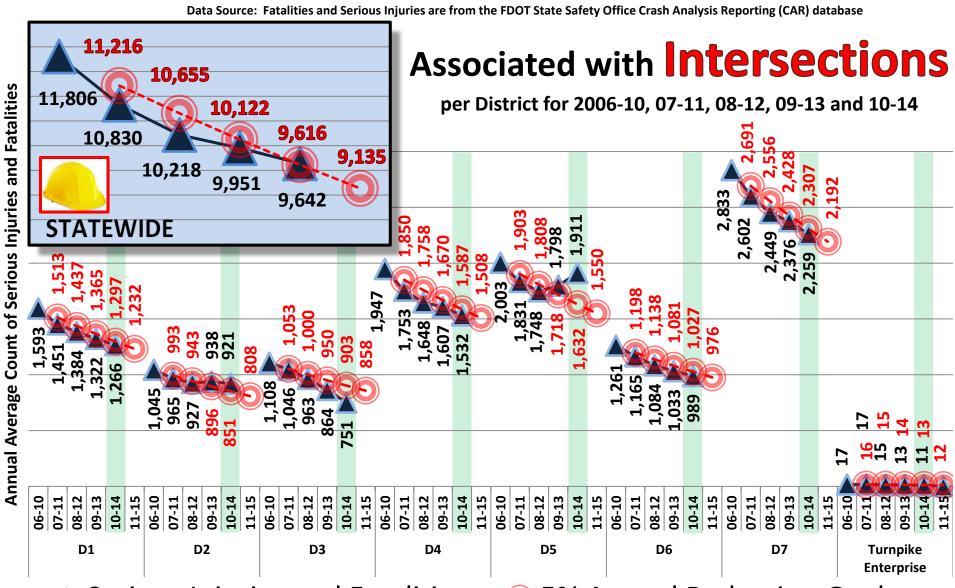




Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database

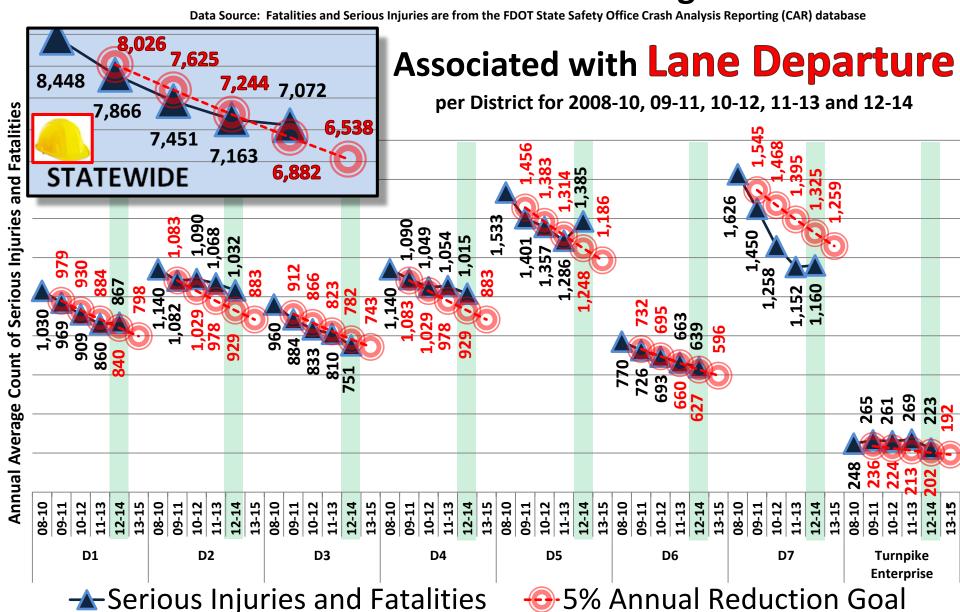






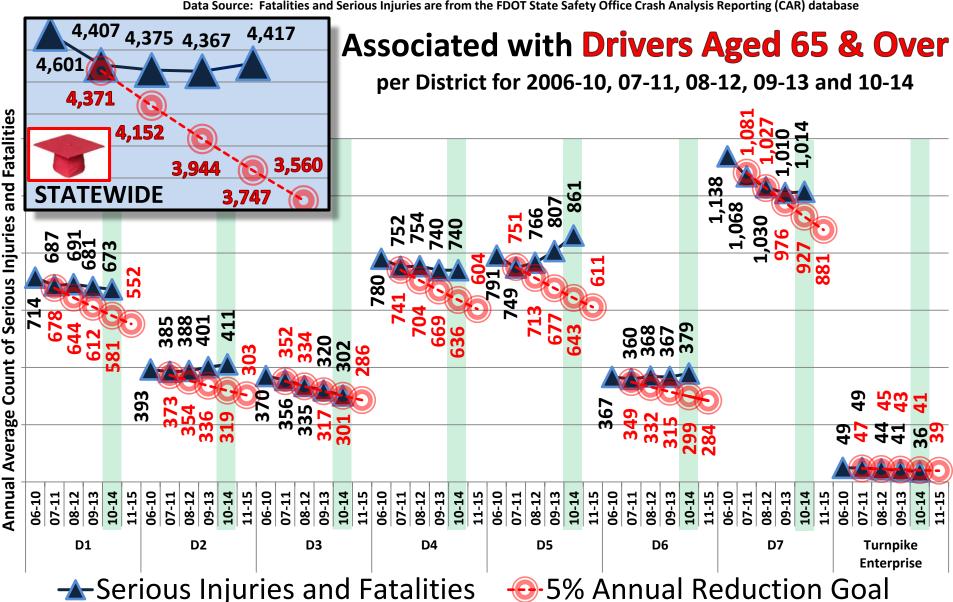
→ Serious Injuries and Fatalities → 5% Annual Reduction Goal



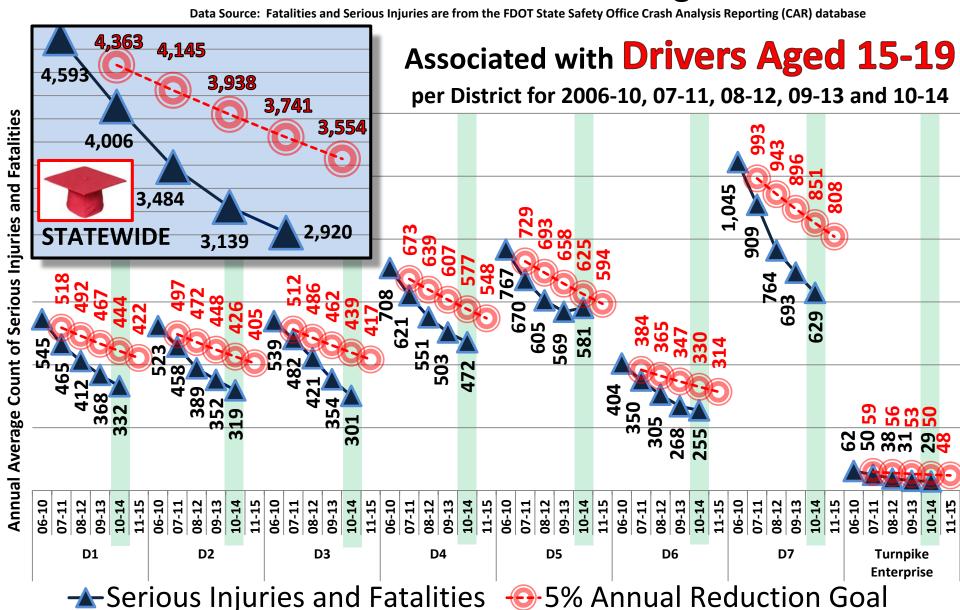




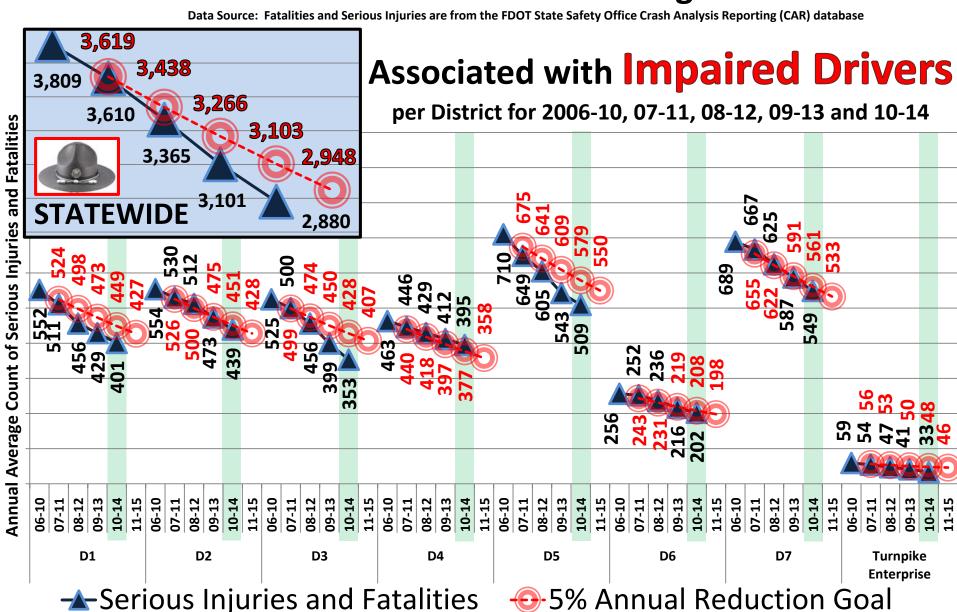
Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database







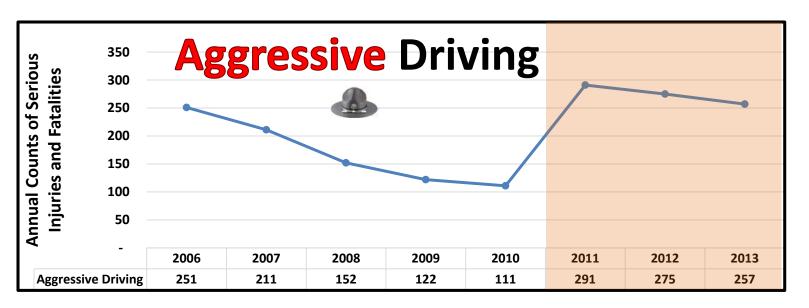


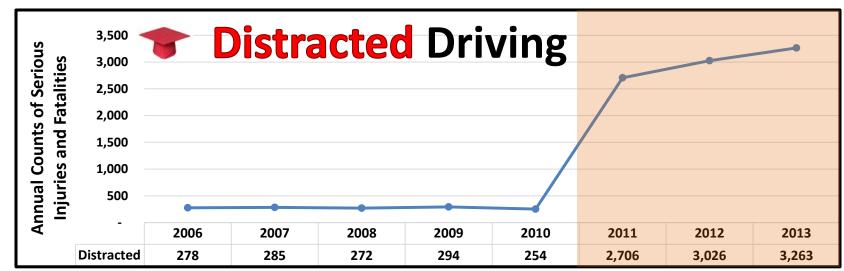




SHSP Preliminary Performance Per District Emphasis Area Changes After Crash Report Change

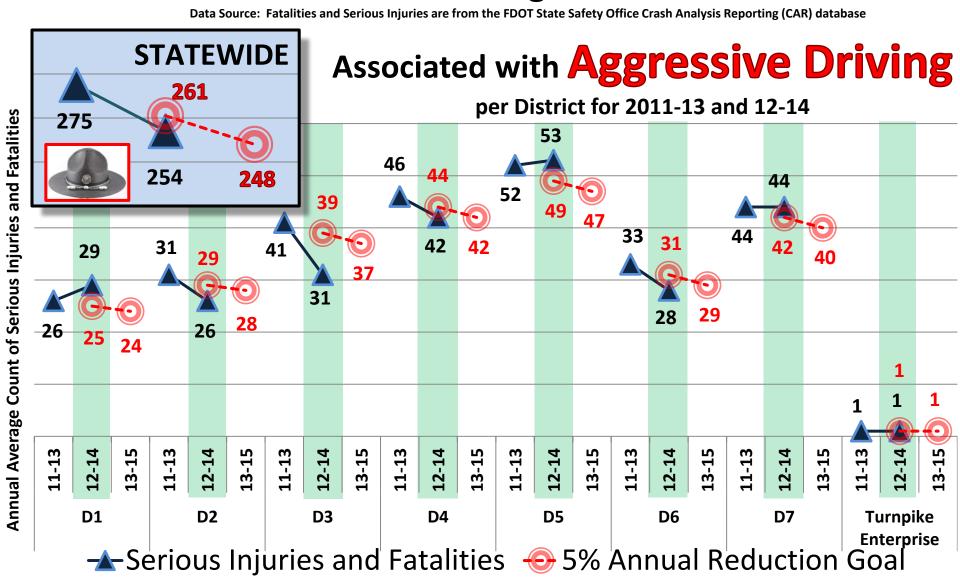
Data Source: Fatalities and Serious Injuries are from the FDOT State Safety Office Crash Analysis Reporting (CAR) database







SHSP Preliminary Performance Per District 2012-14 Annual Averages – baseline 2011-13

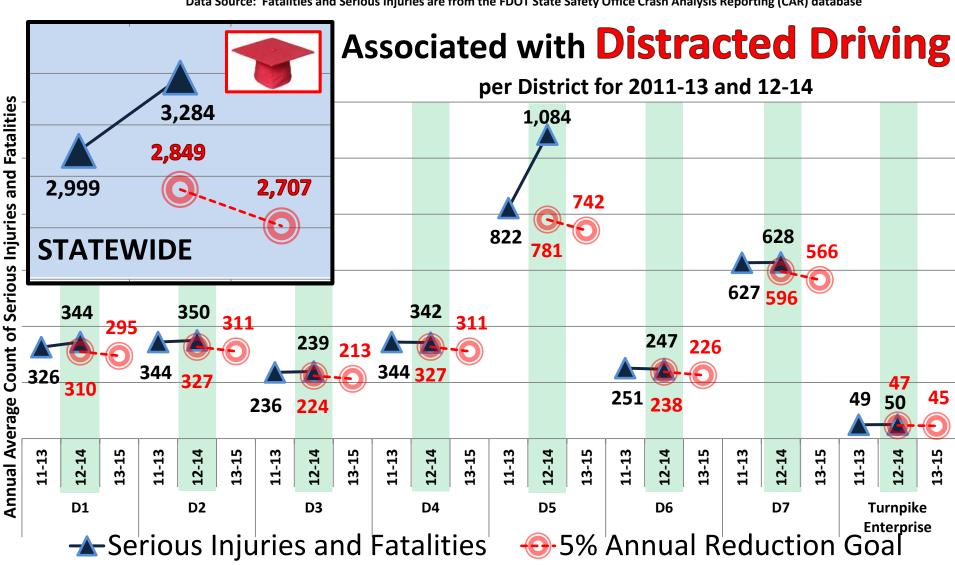


NOTE: The addition of a new Driver Action code of "Operated MV in an Erratic, Reckless or Aggressive Manner" in 2011 combined with the increased emphasis on aggressive driving enforcement may be responsible for an increase in identification of aggressive driving by the reporting officers starting in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



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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

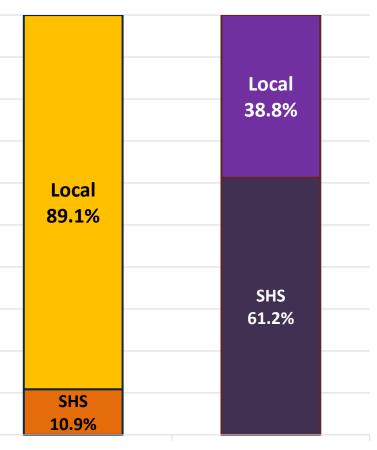


State Highway System (SHS)

Annual 5-Year Averages for INTERSECTIONS: Local versus State Highway System (SHS)

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

Fatal and Serious Injuries per Intersection				
SHS	Local			
0.071	0.006			



Intersections

Fatal & Serious Injuries



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



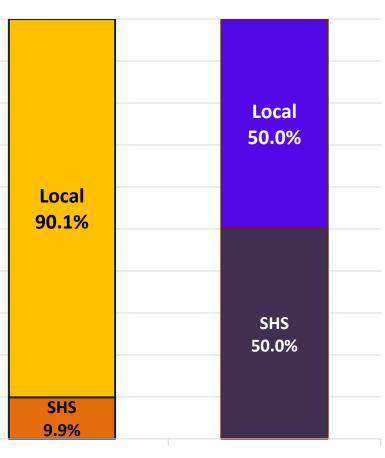
Proportion of Local versus

State Highway System (SHS)

Annual 5-Year Averages for LANE DEPARTURES: Local versus State Highway System (SHS)

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

Fatal and Serious Injuries per Centerline Mile		
SHS	Local	
0.279	0.028	



Fatal & Serious Injuries



Questions?

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