



**FORWARD
PINELLAS**
Integrating Land Use & Transportation

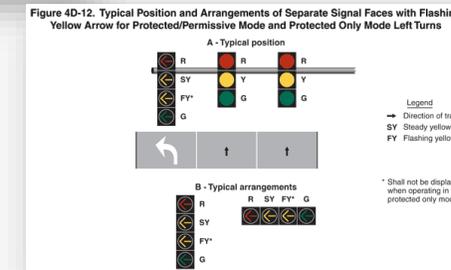
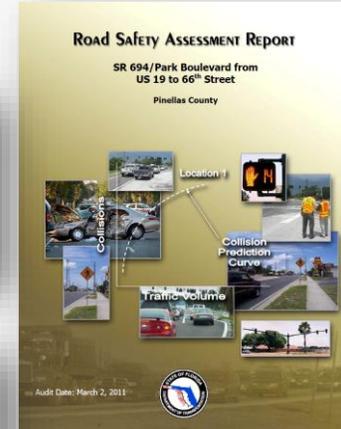
2016 Traffic Crash Trends and Conditions Report

Clearwater City Council
December 15, 2016



Why Do We Publish an Annual Report?

- Long Range Transportation Plan
- State of the System Report
- Congestion Management Process
- Road Safety Assessments
- Corridor Studies
- Roadway/Intersection Design Support
- Signal Warrant Analysis
- Funding Justifications (FDOT HSIP Grant)
- High Visibility Enforcement
- Project Prioritization



Vision Zero Justification

2016 TRAFFIC CRASH TRENDS AND CONDITIONS REPORT

PINELLAS COUNTY TRAFFIC CRASHES 2015

28,501 traffic crashes
4,426 people injured
101 deaths

+7%

28,501

CRASHES IN PINELLAS COUNTY

4,426

INJURIES IN PINELLAS COUNTY

101

TRAFFIC DEATHS IN PINELLAS COUNTY

represents a **92%** increase since 2011

3 1 6 4 0

+4%

-15%

DRIVER DISTRACTIONS

A crash resulting from the driver's cell phone, navigation device, other activity, external distraction, or general inattentiveness

FHWA SAFETY PERFORMANCE MEASURES

FHWA SAFETY PERFORMANCE MEASURES	2011	2012	2013	2014	2015	5 Year Rolling Avg. 2015	5 Year % Change (2011-2015)
Number of Motor Vehicle Crash-Related Serious Injuries	999	925	879	911	982	939	-1%
Number of Motor Vehicle Crash-Related Fatalities	114	101	80	117	101	103	-12%
Number of Serious Injuries of Non-Motorized Users	162	199	162	169	153	169	-5%
Number of Fatalities of Non-Motorized Users	40	41	34	47	36	40	-10%
Number of Serious Injuries per Vehicle Miles Traveled (VMT)	46.90	43.43	41.07	41.60	*	43.25	-11%
Number of Fatalities per Vehicle Miles Traveled (VMT)	5.35	4.74	3.74	5.34	*	4.79	-0.1%

FLORIDA TRENDS (2011-2015)

+6% 20,271,272 persons

+2% 21,904,344 vehicle miles traveled

+3% 15,998,416 licensed drivers

-37% \$2.43 average annual price of gasoline

TEEN DRIVING (AGES 15-19)

+63%

Over the past 5 years, the number of crashes involving drivers age 15 to 19 has dramatically increased from 1,616 to 3,128

BICYCLE FATALITIES

-107%

There were 3 bicyclist fatalities in 2015, which is the lowest number over the past 5 years

CONTRIBUTING ACTIONS

Operating a motor vehicle in a careless or negligent manner accounts for a high percentage of motor vehicle crashes

1 1 5 6 8 0

represents **41%** of the total

MOST DANGEROUS INTERSECTION

The intersection of Gulf-to-Bay Blvd. and Belcher Rd. in Clearwater had an intersection crash rate of 5.23 crashes per million entering vehicles



MOST DANGEROUS ROAD SEGMENT

The segment of Live Oak St. from Alt. 19 to Safford Ave. in Tarpon Springs had a segment crash rate of 77.42 crashes per million entering vehicles

LIVE OAK ST

PEDESTRIAN FATALITIES

65% occurred at mid-block, at night on roads that were illuminated

\$1,540,835,100

TOTAL ECONOMIC IMPACT OF CRASHES, INJURIES, AND FATALITIES IN PINELLAS COUNTY IN 2015

Source: http://www.nsc.org/NSC/Documents_Corporate/estimating-costs-unintentional-injuries-2016.pdf

Crash Data Collection

- Florida Crash Report Form (HSMV 900 10 S)
- Statewide Change in 2011
 - 33 new fields and 520 new attributes
- Section 1
 - Crash Identifiers, Roadway Information, Crash Information, Witnesses, Non-Vehicle Property Damage
- Section 2
 - Vehicle Information, Violations
- Section 3
 - Narrative, Additional Passengers/Violations, Reporting Officer
- Section 4
 - Crash Diagram

FLORIDA TRAFFIC CRASH REPORT

LONG FORM SHORT FORM UPDATE TOTAL # OF VEHICLE SECTION(S) 4
 MAIL TO: DEPARTMENT OF HIGHWAY SAFETY & MOTOR VEHICLES TOTAL # OF PERSON SECTION(S) 5
 TRAFFIC CRASH RECORDS, NEIL KIRKMAN BUILDING TALLAHASSEE, FL 32399-0537 TOTAL # OF NARRATIVE SECTION(S) 6

CRASH DATE 7 TIME OF CRASH 8 DATE OF REPORT 9 REPORTING AGENCY CASE NUMBER 2 DISPATCH REPORT NUMBER 1

CRASH IDENTIFIERS

COUNTY CODE/CITY CODE 10 COUNTRY OF CRASH 11 PLACE OR CITY OF CRASH 13 CHECK IF WITHIN CITY LIMITS 14 TIME REPORTED 15 TIME DISPATCHED 16

TIME CLEARED SCENE 17 TIME CLEARED SCENE 18 CHECK IF 19 REASON (If Investigation NOT Complete) 20 Notified By: 1 Motorist 2 Law Enforcement 21

ROADWAY INFORMATION (CHOOSE ONLY 1 OF 4 OPTIONS)

CRASH OCCURRED ON STREET, ROAD, HIGHWAY 22 AT STREET ADDRESS # 23 AT LATITUDE 24 AND LONGITUDE 25 OR FROM MILEPOST # 30

AT FEET 26 MILES 27 FROM INTERSECTION WITH STREET, ROAD, HIGHWAY 29 OR FROM MILEPOST # 30

Road System Identifier 31 Type of Shoulder 32 Type of Intersection 33

CRASH INFORMATION (CHECK IF PICTURES TAKEN) 34

Light Condition 35 Weather Condition 36 Roadway Surface Condition 37 School Bus Related 38 Manner of Collision/Impact 39

First Harmful Event 40 Non-Collision Collision Non-Fixed Object Collision with Fixed Object First Harmful Event Location 41

First Harmful Event within interchange 42

Contributing Circumstances: Road 43

Contributing Circumstances: Environment 45

Workers in Work Zone 49 Law Enforcement in Work Zone 50

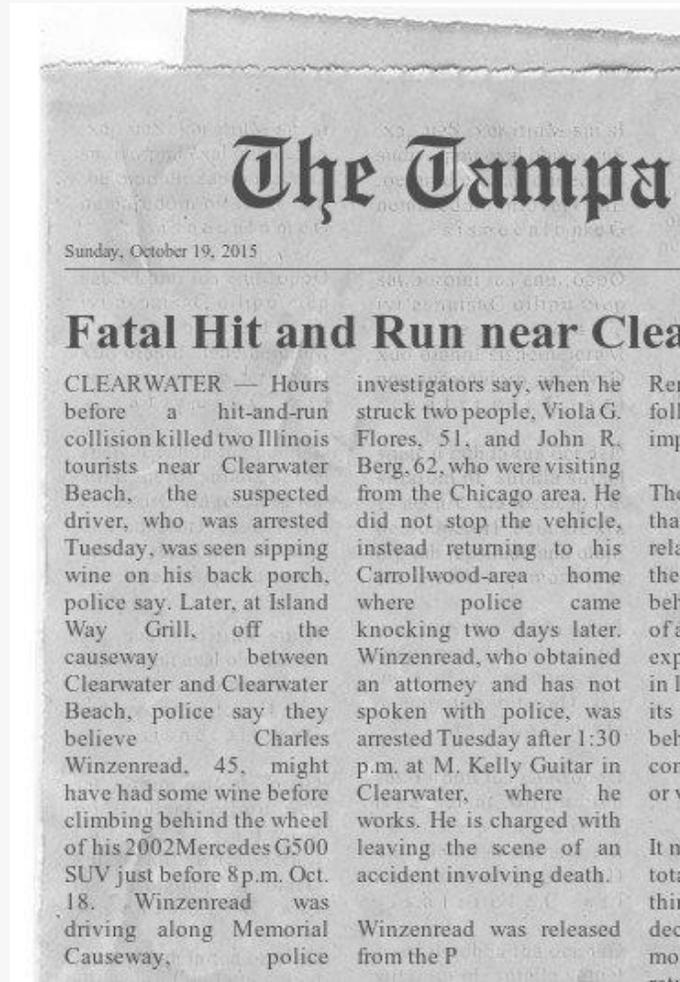
CITY & STATE 56 ZIP CODE 58
 CITY & STATE 57 ZIP CODE 59
 CITY & STATE 60 ZIP CODE 61

IF Business ADDRESS 68 CITY & STATE 70 ZIP CODE 71
 IF Business ADDRESS 69 CITY & STATE 71 ZIP CODE 72



Crash Data Collection

Two pedestrians were rushed to an area hospital with serious injuries after a hit-and-run accident on Memorial Causeway Sunday night...



In Pinellas County...

- **28,501** traffic crashes occurred and were reported to the Florida Department of Highway Safety and Motor Vehicles (FDHSMV) (**up 7% from 2014**)
- **101** people died (**down 15% from 2014**)
- **4,426** people were injured (**up 4% from 2014**)



Trends in Pinellas County, 2011-2015

PINELLAS COUNTY CRASH TRENDS	2011	2012	2013	2014	2015	5 Year % Change (2011-2015)
Total Motor Vehicle Crashes	14,896	18,071	24,624	26,580	28,501	62%
Total Injuries	5,416	3,859	4,502	4,249	4,426	-20%
Total Fatalities	114	101	80	117	101	-12%
Total Pedestrian Crashes	434	534	578	570	572	27%
Total Pedestrian Fatalities	30	30	25	40	36	18%
Total Bicycle Crashes	483	580	548	572	471	-2%
Total Bicycle Fatalities	10	11	9	7	3	-107%
Total Motorcycle Crashes	541	499	619	640	669	21%
Total Motorcycle Fatalities	28	20	16	29	26	-7%



Trends in Pinellas County, 2011-2015

On an average day in 2015:

- 77 crashes
- .27 deaths and 12 injuries

2015 distracted driving statistics:

- 3,164 crashes
- 9 deaths and 569 injuries
- 91% increase since 2011

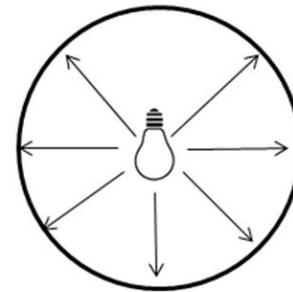


Trends in Pinellas County, 2011-2015

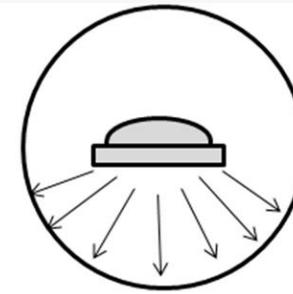


Illumination from overhead streetlights varies depending on the type of bulb

High Pressure Sodium Lighting vs. LED Lighting



Traditional Light Bulb



LED Light Bulb



Trends in Pinellas County, 2011-2015



Trends in Pinellas County, 2011-2015

Top 10 Intersections by Crash Rate

Rank	Main Route	Minor Route	Jurisdiction	No. of Crashes	Total Intersection AADT	Intersection Crash Rate
1	S.R. 60	Belcher Road	Clearwater	141	73,904	5.23
2	U.S. Highway 19	Tampa Road	Unincorporated	170	107,523	4.33
3	54 th Ave. S.	31 st Street South	St. Petersburg	46	36,492	3.45
4	Alternate 19	Curlew Road	Dunedin	42	34,241	3.36
5	66 th St. N. (S.R. 693)	38 th Avenue North	St. Petersburg	72	62,396	3.16
6	U.S. Highway 19	Drew Street	Clearwater	131	116,958	3.07
7	U.S. Highway 19	Curlew Road	Unincorporated	128	115,750	3.03
8	U.S. Highway 19	Alderman Road	Unincorporated	89	86,758	2.81
8	Gandy Boulevard	4 th Street North	St. Petersburg	77	75,125	2.81
9	Alternate 19	Rosery Road	Largo	45	44,215	2.79
10	Fort Harrison Avenue	Chestnut Street	Clearwater	33	32,776	2.76



Pedestrian Fatality Benchmark Against Other Urbanized Counties, 2011-2015

Pedestrian Fatalities Per Capita, 2011-2015

Urbanized County in Florida	2011	2012	2013	2014	2015	Average
Pinellas County	3.63	2.93	2.83	4.41	3.72	3.50
Palm Beach County	1.44	1.80	2.61	2.57	2.55	2.20
Orange County	2.43	3.42	3.00	3.61	3.04	3.10
Miami-Dade County	3.15	2.16	2.67	2.95	3.51	2.89
Hillsborough County	2.52	2.64	2.52	2.62	3.64	2.79
Broward County	1.66	3.45	2.81	3.33	3.24	2.90
National (Average)	1.42	1.51	1.50	1.53	*	1.49

Source: National Highway Traffic Safety Administration and Florida's Integrated Report Exchange System (FIRES)

- Highest Number of Per Capita Pedestrian Fatalities
- Second Highest Number of Per Capita Pedestrian Fatalities
- Third Highest Number of Per Capita Pedestrian Fatalities



Conclusions

- **Some problem areas noted in this and past reports are in the process of being addressed;**
 - **Project Development & Environmental Study (PD&E) of the Belcher Road corridor from Druid Road to Drew Street**
 - **US 19 Safe Access to Transit Study**
 - **Forward Pinellas 2040 LRTP includes an annual set aside of between \$1-\$5 million dollars for projects that will improve roadway safety**
- **Pedestrian fatalities (crossing mid-block with poor nighttime visibility) / teen driving / distracted driving**
- **Vision Zero Action Plan development & implementation**





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Questions

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