

I-595 EXPRESS LANES CASE STUDY-BEFORE DATA



PREPARED FOR: FDOT CENTRAL OFFICE
PREPARED BY: HNTB CORP.



PURPOSE OF STUDY



Examine the Impacts of the opening of Reversible Express Lanes on I-595 on the Trucking Community.

- Express lanes opened March, 2014
- Contract started March, 2014
- Role: collect 2009 data for before conditions
- Challenge: mining 2009 data that could be compared with actual data that will be collected

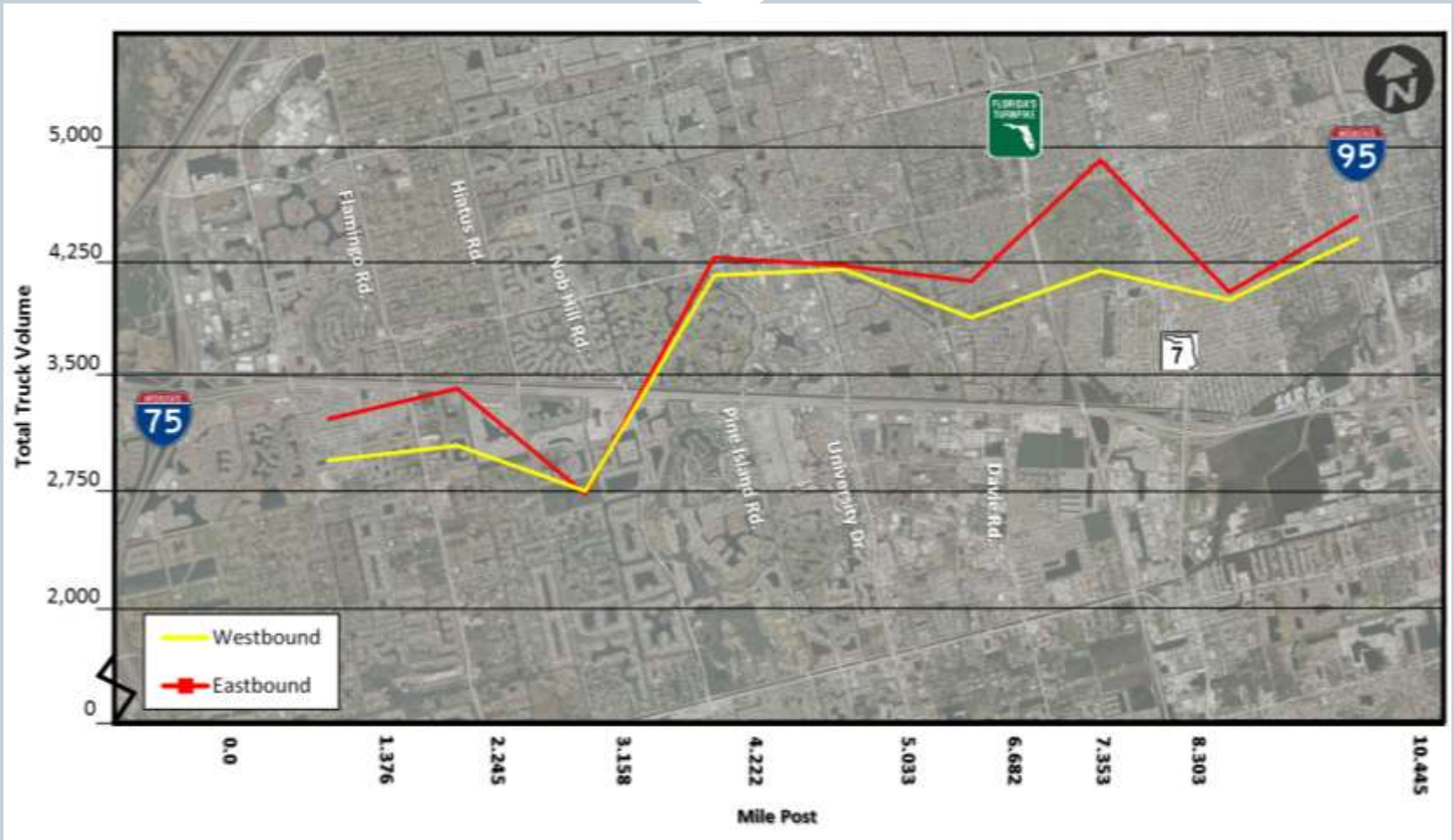
Traffic Volumes



Westbound



2009 Truck Traffic



Truck Classification Counts



Table 1: 2012 Classification Counts on I-595 – Just east of I-95

2012 Classification Counts on I-595 (Station just east of I-95)				
Vehicle Classification	Count			
	Eastbound	%	Westbound	%
Passenger Vehicles	45,214	93%	48,416	90%
Single Unit Trucks	1,087	2%	1,622	3%
Combination Trailer Trucks	2,328	5%	3,810	7%
Multi Trailer Trucks	5	0%	187	0%
<i>Total</i>	48,634		54,035	

Table 2: 2012 Classification Counts on I-595 – Just west of I-75

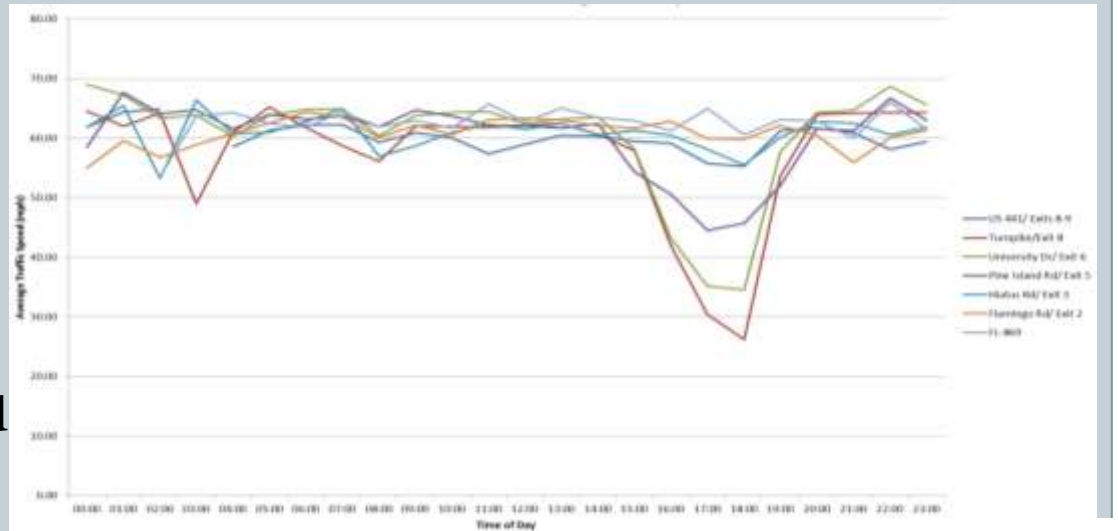
2012 Classification Counts on I-595 (Station just west of I-75)				
Vehicle Classification	Count			
	Eastbound	%	Westbound	%
Passenger Vehicles	21,533	92%	22,022	91%
Single Unit Trucks	926	4%	957	4%
Combination Trailer Trucks	937	4%	1,199	5%
Multi Trailer Trucks	53	0%	17	0%
<i>Total</i>	23,449		24,195	

INRIX Speed Data

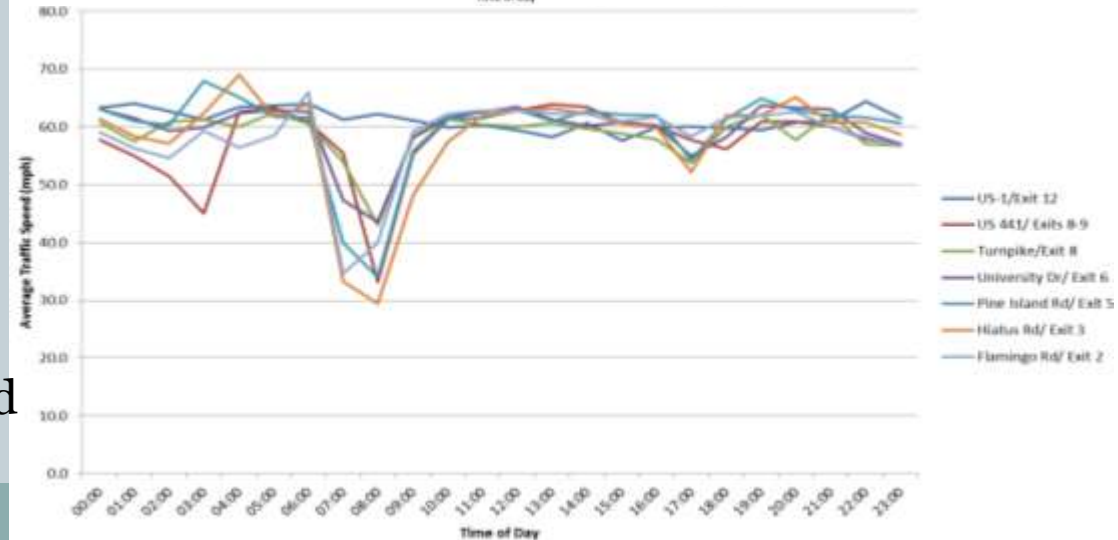


- Data obtained from FDOT
- July 2010 first data available
- Used October 2010
- Aggregate 3 days data
- Aggregate 15 minute data

Westbound



Eastbound



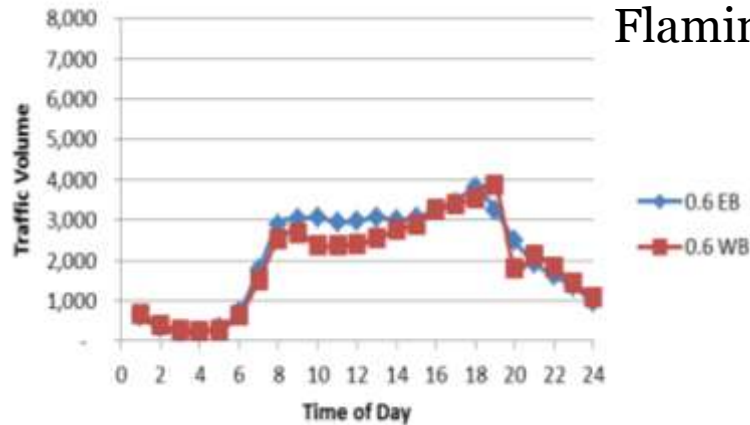
STEWARD DATA



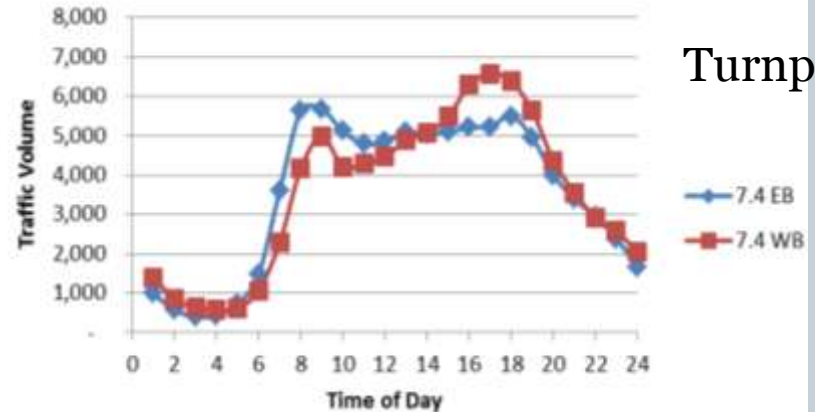
- Statewide Transportation Engineering Warehouse for Archived Regional Data
- No fee – can sign on as guest
- Daily Data since October 2008
- Volumes per lane at 0.3 mile intervals
- Volumes at 5 minute intervals
- I-595 sensors disconnected when project started

STEWARD DATA: Time of Day Distribution

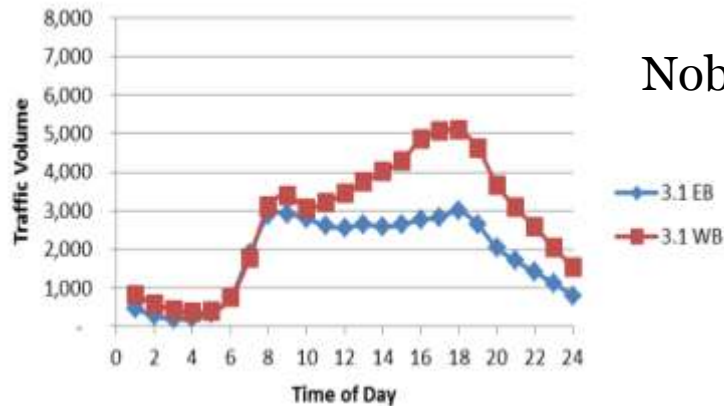
Flamingo



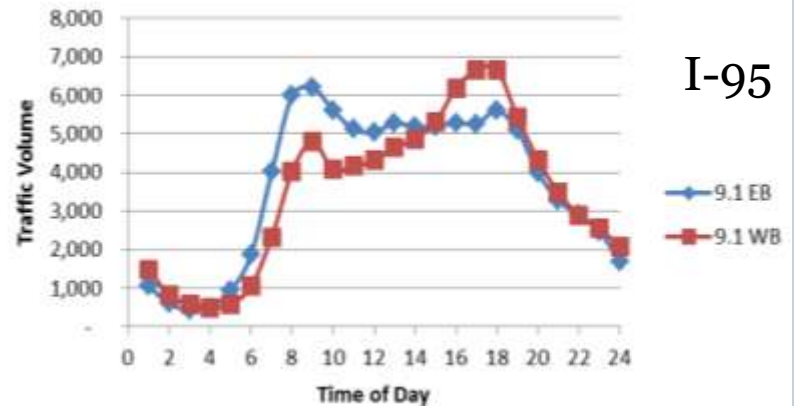
Turnpike



Nob Hill



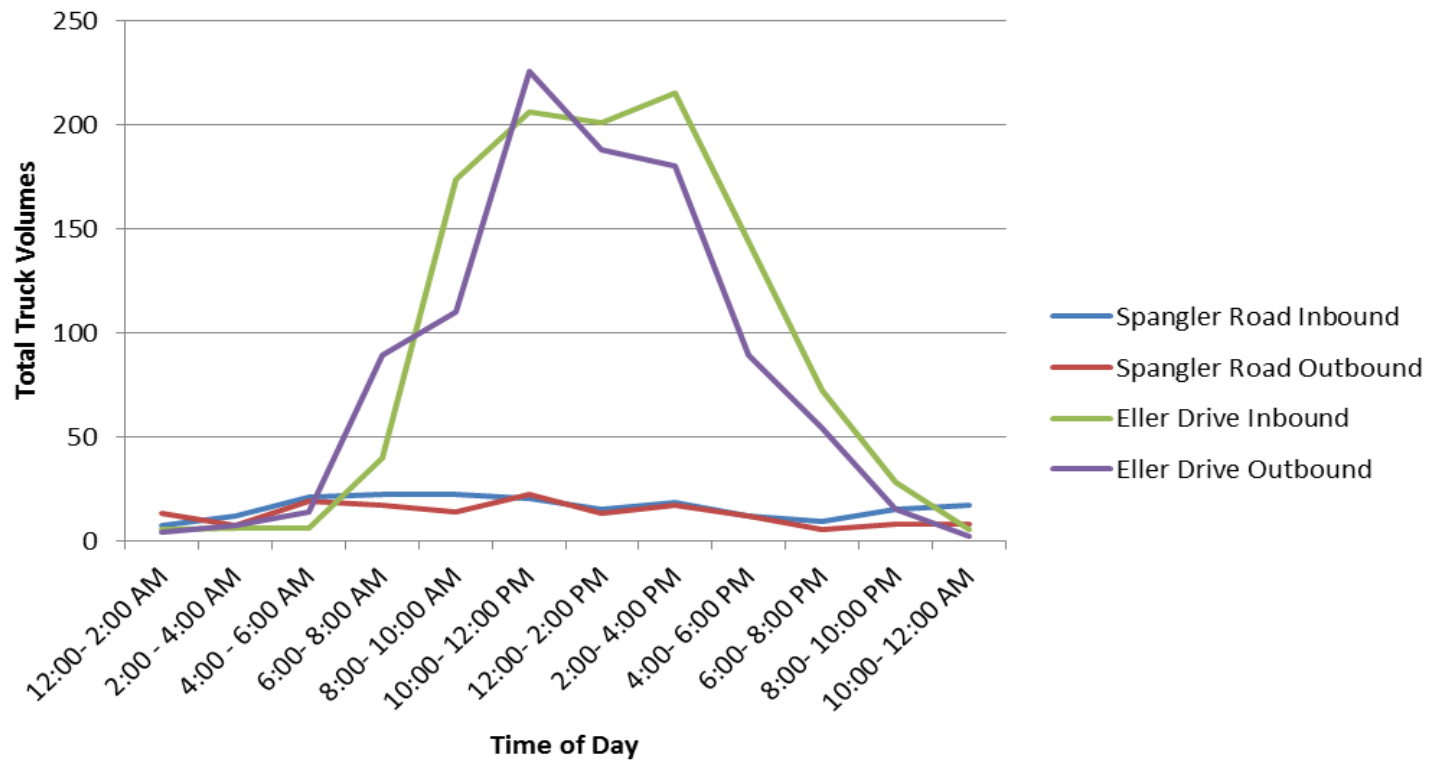
I-95



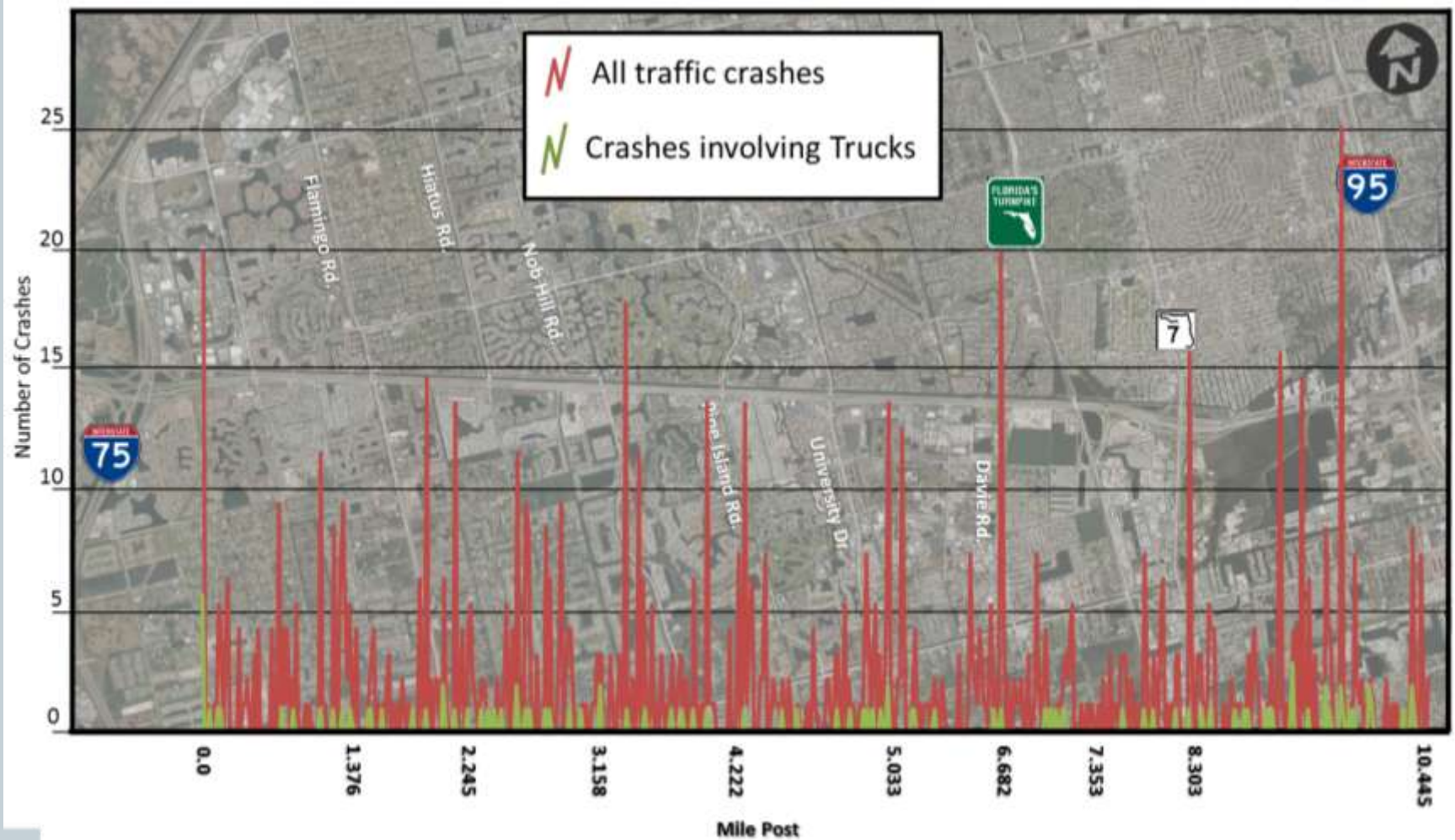
Port Everglades Classification Counts



Time Distribution of Trucks at Port Everglades



Crash Data



RITIS DATA



- Regional Integrated Transportation Information System
- Requested access
- 2 month later denied access

Conclusions



- Excellent highway data is available from 2009 to the present
- Specific truck data is not readily available so multiple sources must be used to represent truck behavior.
- The I-595 Managed lanes may not be the best Demonstration Project for truck use