

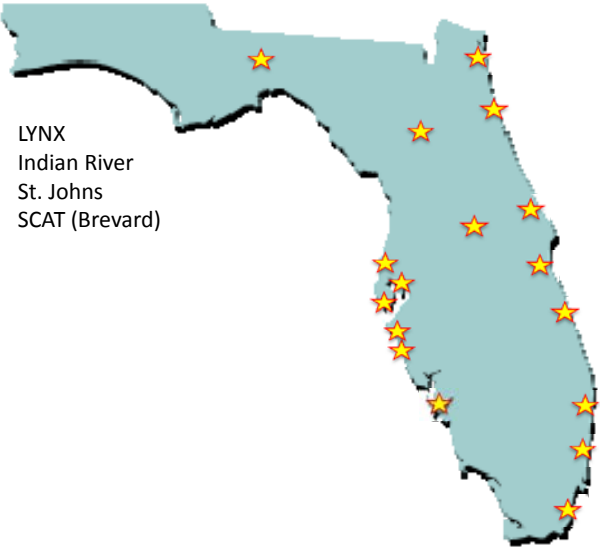
CUTR
CENTER for URBAN
TRANSPORTATION
RESEARCH

Strategies to Prevent, Reduce, and
Mitigate Bus Collisions
Status Report


Dec. 9, 2015 • Florida Transit Safety Network Meeting
Jacksonville

Center for Urban Transportation Research | University of South Florida

Agency Site Visits Completed

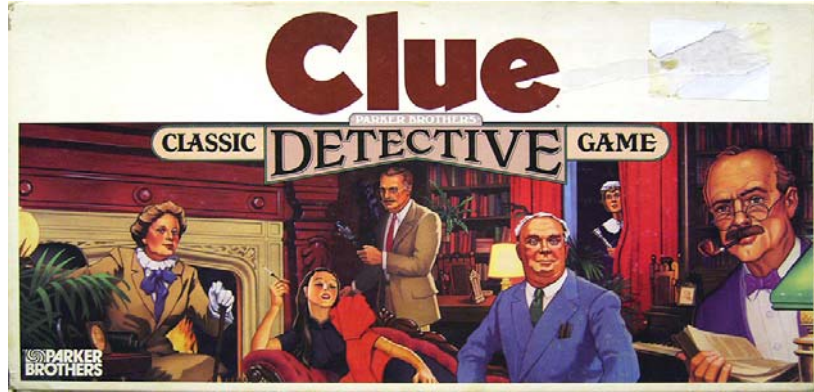


- RTS
- VOTRAN
- StarMetro
- PSTA
- JTA
- MDT
- BCT
- Palm Tran
- MCAT
- LeeTran
- SCAT (Sarasota)
- HART
- PCPT
- LYNX
- Indian River
- St. Johns
- SCAT (Brevard)



2

Last time, I said this study is like...



3

I'd like to accuse...



It was the rookie bus driver, Colonel Mustard, and he was rear-ended on rainy day by a out of state tourist while driving a bus with lots of advertising on the back, and he forgot to turn on his 4-way flashers.

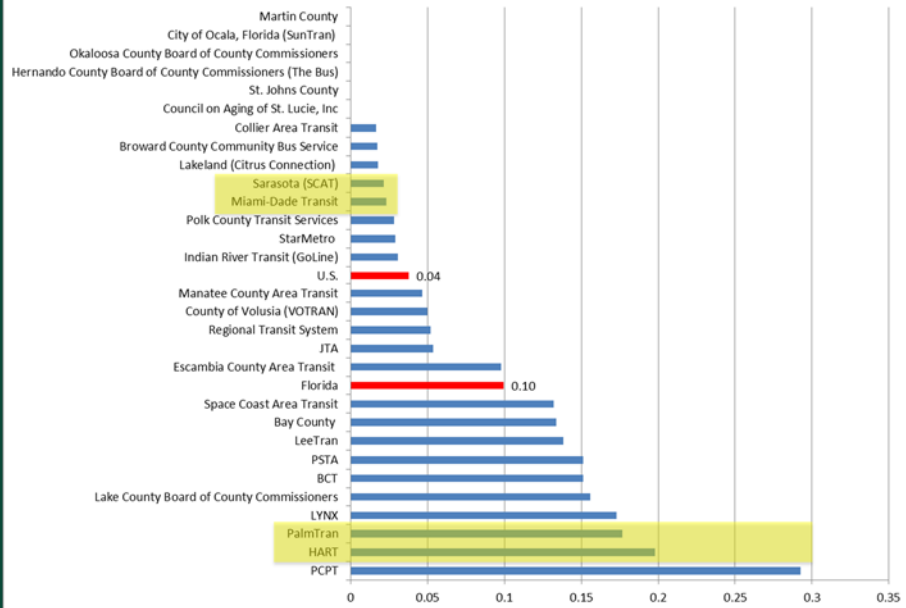


4

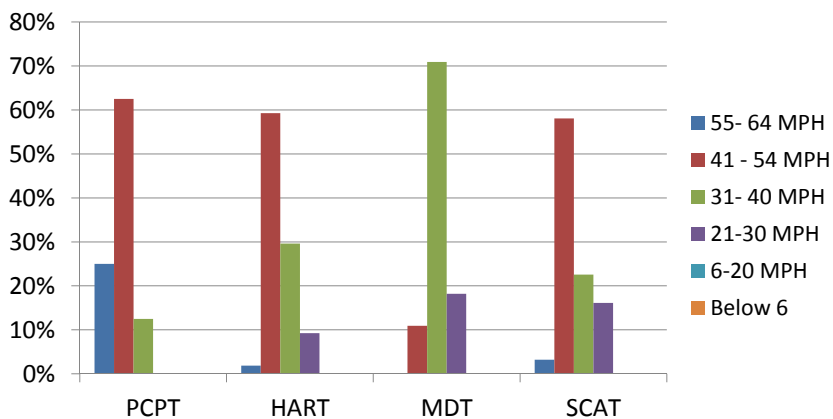
This study is also like peeling back the onion



Rear-ended Collisions per 100,000 miles (2009-2013)



Posted Speed Limits of Rear-ended Collision Locations



Percentage of collisions where speed limit was 41 mph or greater

PCPT: 88% HART: 61% MDT: 11% SCAT: 61%



Last time, I said there was no correlation to years of experience

Years of Experience	No. of Rear-ended Collisions	Percent
Less than 2 Years	21	27%
2 to 5 Years	10	13%
More than 5 Years	48	61%
Total	79	100%

Source: BCT; data was compiled from 8/2014 to 7/2015.

Since then, there has been additional analysis



Broward County Transit

Rear-ended Collisions

Years of Experience	No. of Drivers	No. of Rear-ended Collisions	Rear-ended Collisions per Driver
Less than 2 Years	119	21	0.18
2 to 5 Years	128	10	0.08
More than 5 Years	429	49	0.11
Total	676	80	0.12

Source: BCT internal accident data records from 8/2014 to 7/2015.
BCT Driver Seniority List as of 6/2/2015.



9

Broward County Transit

Preventable Collisions (All Types)

Years of Experience	No. of Drivers	No. of Collisions	Collisions per Driver
Less than 2 Years	119	37	0.31
2 to 5 Years	128	16	0.13
More than 5 Years	429	78	0.18
Total	676	131	0.19

Source: BCT internal accident data records from 8/2014 to 7/2015.
BCT Driver Seniority List as of 6/2/2015.



10

HART

Rear-ended Collisions

Years of Experience	No. of Drivers	No. of Rear-ended Collisions	Rear-ended Collisions per Driver
Less than 2 Years	113	10	0.09
2 to 5 Years	56	3	0.05
More than 5 Years	204	19	0.09
Total	373	32	0.09

Source: HART internal accident data records from 1/2013 to 12/2014.
HART Driver Seniority List as of 9/2015.

Note: All 32 rear-ended collisions were deemed non-preventable.



11

HART

Preventable Collisions (All Types)

Years of Experience	No. of Drivers	No. of Collisions	Collisions per Driver
Less than 2 Years	113	23	0.20
2 to 5 Years	56	7	0.13
More than 5 Years	204	16	0.08
Total	373	46	0.12

Source: HART internal accident data records from 1/2013 to 12/2014.
HART Driver Seniority List as of 9/2015.



12

Space Coast Area Transit

Rear-ended Collisions

Years of Experience	No. of Drivers	No. of Rear-ended Collisions	Rear-ended Collisions per Driver
Less than 2 Years	43	3	0.07
2 to 5 Years	21	1	0.05
More than 5 Years	34	6	0.18
Total	98	10	0.10

Source: Space Coast internal accident data records from 10/2014 to 8/2015.
Space Coast Driver Seniority List as of 8/31/2015.

Note: All 10 rear-ended collisions were deemed non-preventable.



13

Space Coast Area Transit

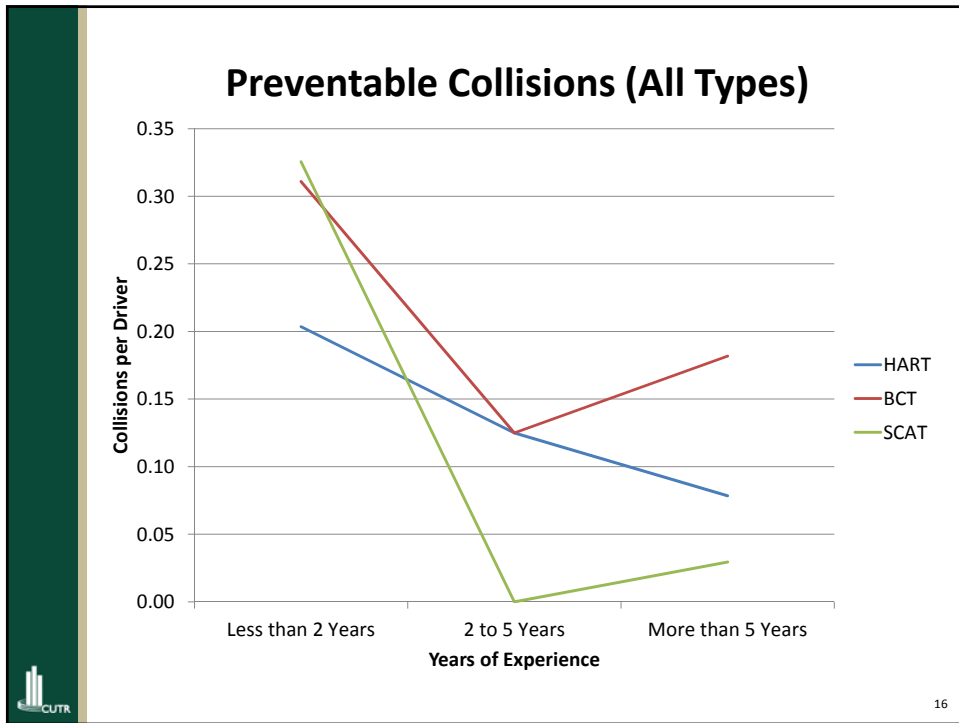
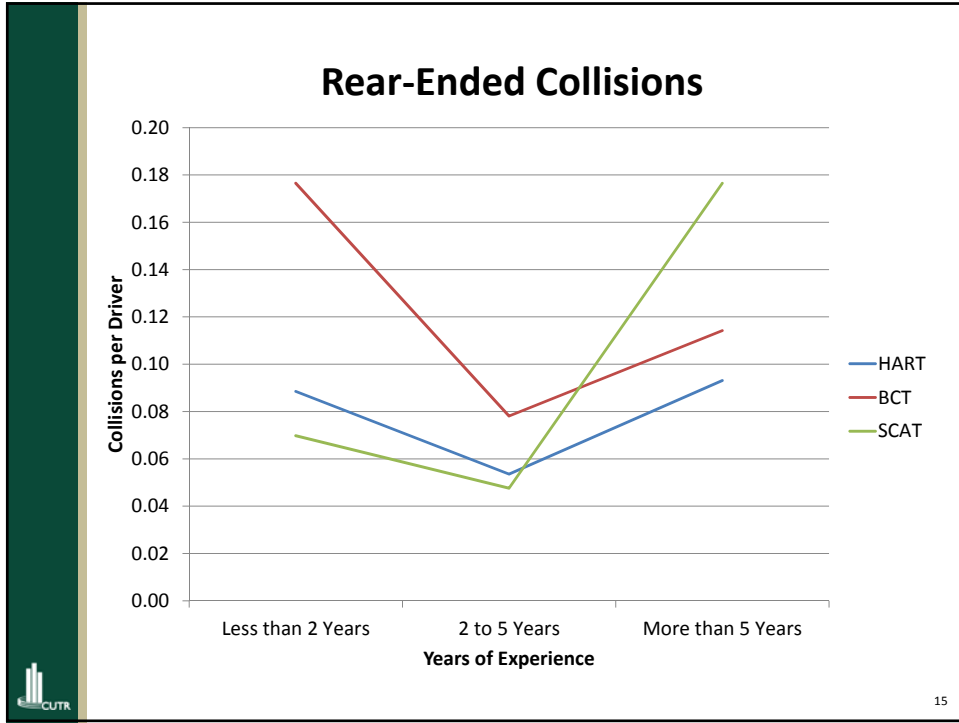
Preventable Collisions (All Types)

Years of Experience	No. of Drivers	No. of Collisions	Collisions per Driver
Less than 2 Years	43	14	0.33
2 to 5 Years	21	0	0.00
More than 5 Years	34	1	0.03
Total	98	15	0.15

Source: Space Coast internal accident data records from 10/2014 to 8/2015.
Space Coast Driver Seniority List as of 8/31/2015.



14



Next Steps

- Draft Final Report by Dec. 25, 2015
- Final Report by March 25, 2016



17

Contact Information

Brian Pessaro, AICP
Senior Research Associate
Center for Urban Transportation Research
University of South Florida
(813) 974-5113
pessaro@cutr.usf.edu



18