

Sally Flocks President & CEO, PEDS

Georgia Department of Transportation Intermodal Committee

June 18, 2014

Transit is the middle leg of two walking trips

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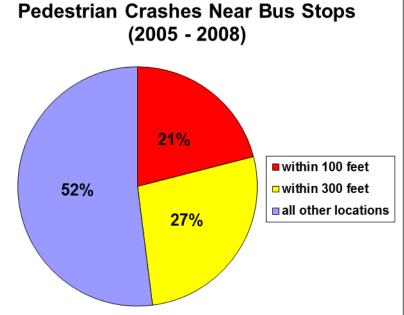
Three out of four walk to transit.

A:C		
Regional On-Board Transit Survey		
Final		
Report		
	Mode of Access to Transit	Percent
	Walked	72.4%
ETC	Dropped Off	14.0%
June 2010	Drove Alone	10.6%
	Rode in a vehicle for part of	
	the trip and walked/biked rest	
	of the way	1.8%
	Carpooled/Vanpooled	0.9%
	Bicycle	0.3%

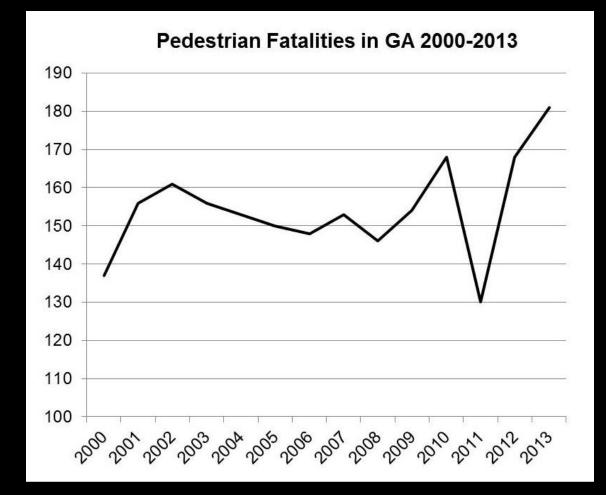


In the 18-county metro Atlanta region, 21% of pedestrian crashes occurred within 100 feet of a bus stop

Data provided by Talya Trudell, ARC



Pedestrian fatalities are a serious and growing problem in Georgia



"Pedestrians have a right to cross streets safely, and transportation professionals have a responsibility to plan, design and install safe and convenient crossing facilities."



Federal Highway Administration

Safe Routes to Transit toolkits help transportation professionals answer the question, How can that best be done?





Toolkits for Safe Crossings in Metro Atlanta



The toolkits provide guidance on selecting appropriate crossing treatments.

Important factors include

- Number of lanes
- Speed limits
- Traffic volume
- Pedestrian traffic

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EXECUTIVE SUMMARY

The tables below use road width, speed limits and vehicle and pedestrian volume to help select appropriate treatments. Site-specific studies should consider these and other factors.

OF LANES	2	3	4	5	6	7
Crosswalk	1	1	1	1		
Traffic Calming	1	1		1		
In-Street Sign	1	1	1	1		
Yellow-Green						
Signs	1	1		1		
2-Sided Signs	1	1		1		
Crossing Flags	1	1	1	1		
2-Beacon RRFB	1	1				
4-Beacon RRFB	1	1	1	1		
Flashing Beacons	7	7	7	1	7	1
Embedded Lights	7	7	7	7	7	7
HAWK	1	1	1	1	1	1
Mid-Block Signal	1	1	1	1	1	1
Signal	1	1	1	1	1	1

Signal	1			1	1	1		S
SPEED LIMIT (MPH)	30	35	40	45	50	55		P
Crosswalk	OK	?	?	NO	NO	NO		C
Traffic Calming	OK	OK	?	?	NO	NO		T
In-Street Sign	OK	OK	?	NO	NO	NO		In
Yellow-Green Signs	ок	ок	?	NO	NO	NO		Ya Si
2-Sided Signs	OK	OK	?	NO	NO	NO		2
Crossing Flags	OK	OK	?	?	?	?		C
2-Beacon RRFB	OK	OK	OK	?	?	?		2
4-Beacon RRFB	OK	OK	OK	?	?	?		4
Flashing Beacons	ок	ок	ок	?	?	?		FI
Embedded Lights	ок	ок	ок	?	?	?		E
HAWK	OK	OK	OK	OK	OK	OK		H
Mid-Block Signal	OK	OK	OK	OK	OK	OK		N
Signal	OK	OK	OK	OK	OK	OK		S

VEHICLE	LIGHT	MEDIUM	HEAVY
Crosswalk	1	1	1
Traffic Calming	1	1	1
In-Street Sign	1	1	1
Yellow-Green Signs	1	1	
2-Sided Signs	1	1	
Crossing Flags	1	1	1
2-Beacon RRFB	1	1	1
4-Beacon RRFB	1	1	1
Flashing Beacons	1	1	
Embedded Lights	1		
HAWK		1	1
Mid-Block Signa	al	1	1
Signal		1	1

PEDESTRIAN TRAFFIC	LIGHT	MEDIUM	HEAVY
Crosswalk	1	1	
Traffic Calming	1	1	1
In-Street Sign	1	1	
Yellow-Green Signs	1		
2-Sided Signs	1	1	
Crossing Flags	1	1	
2-Beacon RRFB	1	1	
4-Beacon RRFB	1	1	
Flashing Beacons	1	1	
Embedded Lights	1	1	
HAWK		1	1
Mid-Block Signal			1
Signal			1

Signal LEGEND

indicates the treatment may be feasible OK Indicates the treatment may provide adequate warning to drivers

suggests other conditions may limit treatment diveness

NO Indicates the treatment is not appropriate

On their own, crosswalks are not safe on roads with more than 3 lanes and over 12,000 cars per day.

PARK



In most cases, marked crosswalks are best used in combination with other treatments:

Safety Effects of Marked Versus Unmarked Crosswalks at Uncontrolled Locations

Recommended Guidelines



US Department of Transportation Reduced Highway Administration

Besearch, Development, and Technology Turner Fairbark Highway Research Center 6300 Georgetown Pike McLeen, VA 22101-2298



Raised crossing islands

Traffic signals

Hybrid pedestrian beacons

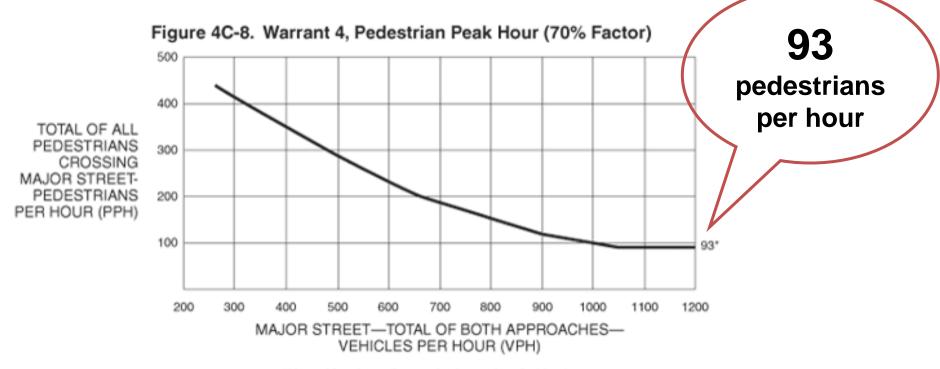
Enhanced overhead lighting

Traffic calming measures

At most locations, traffic signals are not an option.

MUTCD Traffic Signal Warrants

2009 Edition Part 4 Figure 4C-8. Warrant 4, Pedestrian Peak Hour (70% Factor)



[&]quot;Note: 93 pph applies as the lower threshold volume.



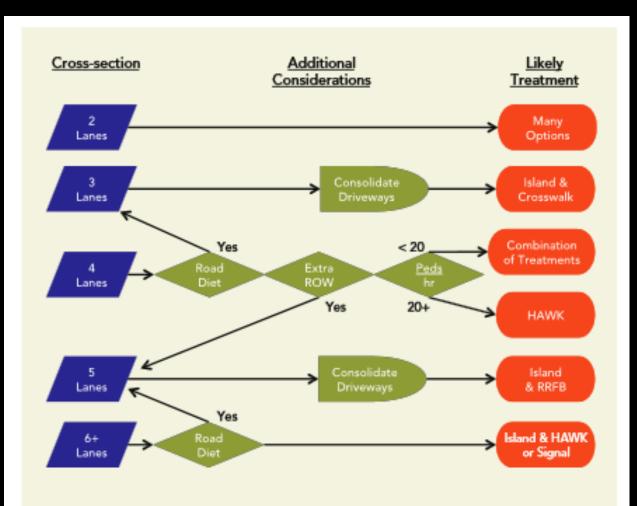
On high speed streets with few safe gaps in traffic, hybrid pedestrian beacons (HAWKS) may be the best solution.





Rectangular Rapid Flash Beacons prompt over 80 percent of drivers to stop or yield to pedestrians

Four and six-lane roads are especially dangerous and may need a combination of treatments



Don't let the perfect be the enemy of the good.





Median refuge islands cut pedestrian crashes by 39 percent

Goal: Safe crossings at all public transit stops

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Toolkits for Safe Crossings in Metro Atlanta



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Available online at peds.org/saferoutes_toolkits



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