

Traffic Engineering 101 - The Basics

Understanding the basic principles and how these drive the decisions regarding traffic management in Louisiana







Traffic Engineering 101

Purpose:

- To provide an overview of engineering principles; guidelines
 laws which govern traffic management in Louisiana
- Discuss how DOTD's decisions impact local communities
- Facilitate feedback & questions from local agencies on state and local traffic engineering issues



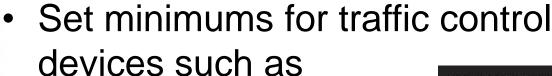
Make the Most of These Webinars

- Pick topics of interest & notify others
- Invite community to participate
 - Elected officials
 - Planners & engineers
 - Law enforcement
 - Road managers
 - Economic development
- Provide feedback & ask questions

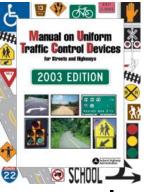


Manual on Uniform Traffic Control Devices

- Federal policy
- All states must adopt



- Signs
- Pavement marking
- And signals





Engineering Directive and Standard Manual (EDSM)

- DOTD policy
- Signed by Chief Engineer
- Provides additional requirements

DEPARTMENT	OF TRA	NSPORTATION AND DEVELOPMENT	EDSM No: VI.1.1.6
OFFICE OF HIG	HWAYS	NOT OKTATION AND DEVELOPMENT	ED3M NO. VI.1.1.0
ENGINEER	RING	DIRECTIVES AND STAND	DARDS
VOLUME	VI	Approval Date: April 8, 2008	
		Approval Date: April 8, 2008 Subject:	
VOLUME			N

This directive sets forth the Department of Transportation and Development's (DOTD) policy for the design of roundabouts.

This policy applies to the State highway system and to local roads where state or federal funds will be used as well as to any improvements to the State highway system funded by a private entity, Parish or local governments had are constructed by permit. Roundabouts must be approved according to EDSM VI.1.1.5 Roundabout Study and Approval prior to beginning design.

- All movements should be accounted for in the design.
 A roundabout should be designed for current peak hour traffic at time of construction.
 The roundabout should be planned for a 20 year design life such that no right of way would have to be purchased to increase capacity once the roundabout is constructed. A waiver may be approved

- If the roundabout is installed under permit a city/state agreement must exist such that if the roundabout fails within the first three years then the state is not responsible for any construction or
- Driveways should not be allowed within 100' away of the splitter island. (Waivers are to be approved by the Traffic Engineering Division Administrator.)

- All Roundsbouts ... All speed control shall take place prior to the yield point on entiry. The recommended design speed for all vehicles entering the roundsbout is 15 mph. Remove any reverse curvature, speed of a reliable place of the plac
- latory roadway width should accommodate buses and fire trucks.
- Use a WB-67 for the design vehicle. (Waivers are to be approved by the Traffic Engineering
- Range from 3 ft to 13 ft wide with a cross slope 3-5 percent away from the central island. Exact width of truck apron should be determined from Auto TURN.

Page Lof 6



Basic Principle of Traffic Engineering

"Everything is designed to meet Driver Expectancy"







TR Engineering 101

Module:

- 1. Introduction & Overview (3/22/10)
- 2. Speed Management Overview (4/26/10)
- 3. School Zones (4/26/10)
- 4. Intersection Traffic Control (5/24/10)
- 5. Traffic Signal (5/24/10)
- 6. Roundabouts (5/24/10)
- 7. Sign Selection & Installation (6/28/10)
- 8. Work Zones (6/28/10)
- 9. Access Management (7/26/10)



Speed Limits

- Theory of speed limits
- State Laws
- DOTD's policy on speed limits
- How to do a speed study
- What signs do we use?



Terrebonne Speed Study

- The Federally funded project was conducted in 2004 and 2005
- Included a review of speed limits from the engineering and enforcement perspectives
- Discussion of results brought to light by study



Enforcement of Speeds

- Discuss LSP organization
- How the State Police Enforce Speed Limits
- Aggressive Driving Task Force



School Zones

- When to set a school speed zone
- DOTD's policy
- MUTCD guidance
- How to sign
- Flashing school sign



Safe Routes to School

What is this program?

How can you get involved?





Intersection Traffic Control & Management

- Different intersection types
- Control options
 - Stop control
 - Traffic signals
 - Roundabouts
 - Innovative designs
- Evaluation & selection of control device/method



Suggestions & Feedback

- Specific questions you have regarding the major topics:
 - DOTD's traffic engineering staff & general program
 - Speed management decisions
 - Intersections
 - Traffic signals
 - Roundabouts
 - Signs
 - Access management



More Suggestions?

Other traffic issues or questions?

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or:

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SPEED LIMITS



How do we control driving speeds?



 By setting reasonable speed limits.



Speed Limits

- What does state law require?
- State Highways/Local Roads?
- What is a reasonable and safe speed limit?
- Who sets speed limits?
- How they are set?
- Speed limit signing?



What does State law say?

Louisiana Revised Statute 32:61

- Sets statutory Speed Limits for "any highway of this state"
- 55 mph max speed on all roads, except:
 - 70 mph on Interstate
 - 65 mph on divided highways



State Highway Speed Zones

RS 32:61

 DOTD to develop criteria to set lower speed limits

RS 32:63

- Lower speed limits must be based on an engineering study
- Limits become effective upon posting



Local Roads Speed Zones

RS 32:41

 Local municipal authorities may adopt ordinances establishing speed limits

RS 33:1236

 Parishes may adopt ordinances establishing speed limits



State and Local Roads

RS 32:235

- DOTD shall adopt a manual and specifications for a uniform system of traffic control devices for use upon highways within this state
- Traffic control devices erected by local municipal and parish authorities shall conform to the department's manual



What are reasonable and safe speed limits?

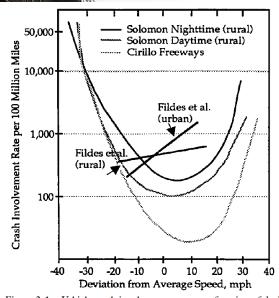
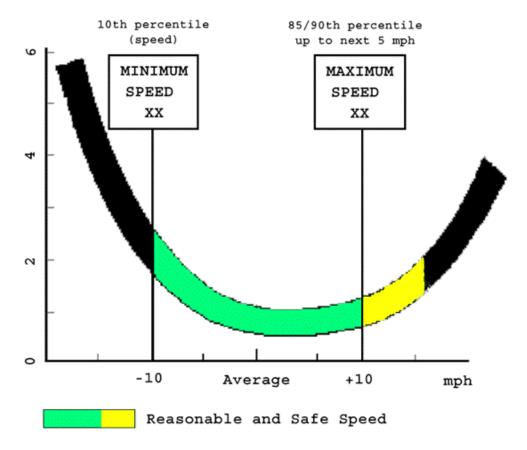


Figure 2-1 Vehicle crash involvement rates as a function of deviation from average traffic speeds (Solomon 1964; Cirillo 1968; Fildes et al. 1991 in Stuster and Coffman 1997, 6). 1 mph = 1.609 km/h.



FHWA Synthesis of Speed Zoning Practice Report FHWA/RD-85/096



The safest speed is:

- Not necessarily the lowest speed.
- Its when everyone drives the same speed
 - Few vehicles pass and are passed.
 - Less tailgating and congestion
- The best speed limit is one which most people will follow.
- This requires measuring existing speeds.



Statistics of Speeds

What is the 85th Percentile & why is it important?

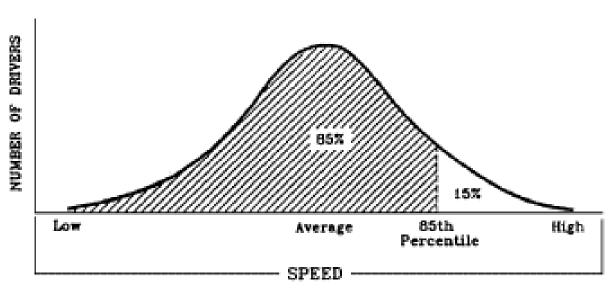
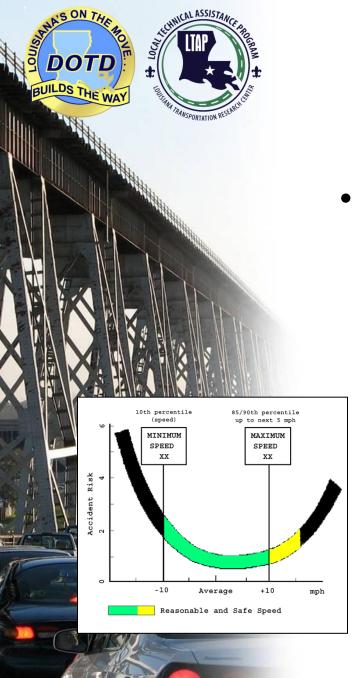


Figure 3-2 Speed distribution showing the 85th percentile speed (Krammes et al. 1996).



85th Percentile Speed

- Advantages of setting the speed limit at the 85th
 - Police are enabled to focus their enforcement efforts on the most dangerous speed outliers
 - Crash involvements are lowest near the 85th



DOTD's Speed Limit **Policy**

 Engineering Directives and Standards Manual (EDSM) VI.1.1.1

 States criteria for developing lower speed limits

Requires an engineering study commonly known as a Speed Study.

DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT

EDSM NO.VI.1.1.1

OFFICE OF HIGHWAYS

ENGINEERING DIRECTIVES AND STANDARDS MANUAL

CHAPTER 1 SECTION 1 DIRECTIVE 1 DATE September 8, 1981

SUBJECT Warrants for the Establishment of Speed Zones

- PURPOSE. This directive sets forth Department of Transportation and Development, Office of Highways' policy regarding the establishment of speed zones. Policy noted herein will serve as a supplement to and not replace the requirements of the Manual of Uniform Traffic Control Devices nor State of Louisiana statutes
- $\underline{\text{SCOPE}}$. These standards apply to all speed zones established on State maintained highways to insure that a uniform method of speed zoning is followed statewide.
- POLICY. Effective immediately, the following policy will apply to the establishment of new speed zones. Existing zones need not be restudied using this policy but locations that are in obvious conflict with this policy should be restudied.

The Louisiana statutes provide that no person shall drive a vehicle on the highway within this State at a speed greater than is reasonable and prudent under the conditions and potential hazards then existing, having due regard for the traffic on, and the surface and width of, the highway and the conditions of the weather and in no event at a speed in excess of the maximum speeds established by statute. Also, except when a special hazard exists that requires lower speeds for compliance with the above, no person shall operate or drive a motor vehicle upon the highways of the State at such a slow speed as to impede the normal and reasonable movement of

Act 310 of the 1962 Legislature provides that whenever the Department shall determine upon the basis of an engineering and traffic investigation that any maximum speed set forth by statute is greater or less than is reasonable or safe under the conditions found to exist upon any state maintained highway in this State, or any part thereof, the Department may determine and declare reasonable and safe maximum speed thereat, which when appropriate signs giving notice thereof are erected, shall be effective at all times or at such specific times as may be determined by the Department. This act further states that whenever the Department determines on the basis of an engineering and traffic investigation that slow speeds on any state maintained highway of this State, or part



What is a Speed Study?

- Measure free flow speeds
 - Determine speed statistics
- Inventory roadway
- Recommends speed
- Recommends length



How to measure free-flow speeds?

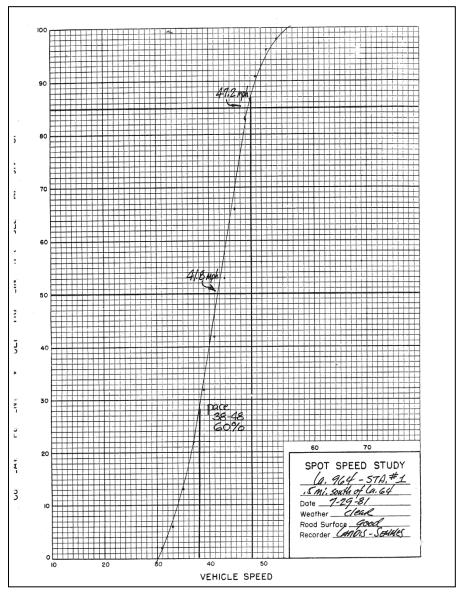
- Equipment:
 - Stopwatch
 - Radar/Laser
 - Loops/tubes/video
- 100 vehicles or 1 hour max



Statistics of Speeds

	MOTOR	VEHICLE	SPEED	STUDY		
Date 7-29-81	Location.	(a. 9	964	57A.1	_ Direction	NOCTHE SOUTH
Time <u>8:15-8:45AM</u>	Weather	clear	2	Road Surface	Condition_	Good

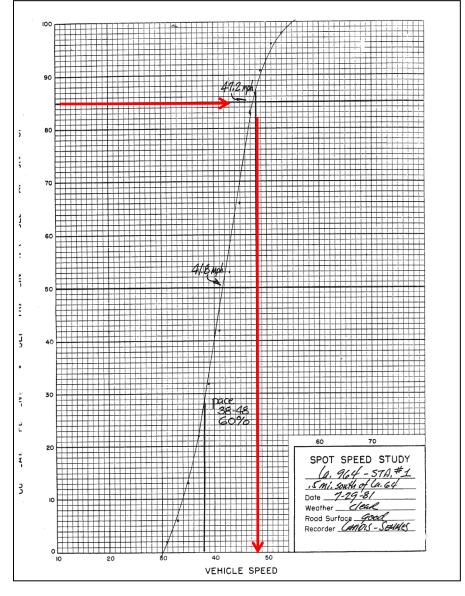
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	for	AUTOMOBILES	COMMERCIAL	HEAVY	BUSSES	сим.	CUM.
	88'		COMMERCIAL	COMMERCIAL		TOTAL	3
0.8	75.0						-
0.9	66.5						+
1.0	60.0						+
1.1	54.5	//					100
1.2	50.0	M-M-11 M-M-M-M-11					100
1.3	46.0	1741 - 1841 - 1841 - 11	///	1			98 85
1.4	42.9	/K/ - /K/ - /	/X/-				
1.5	40.0	114-111	11	7			4
1.6	37.8	111	/X/-				48 36
1.7	35.0	1111	///	/			36
1.8	33.3	/XV - ///					22
1.9	31.4	////					15
2.0	30.0	///					7
2.1	28.5	- ///					3
2.2	27.3						
	26.0						
2.3	25.0						
2.5	23.8						
2.7	22.1						
2.9	20.7						
3.0	20.0						
3.1	19.3						
3.2	18.8						
3.3	18.2						
3.4	17.6						
3.5	17.1		-				
3.6	16.7						
3.7	16.1						
3.8	15.8		 -				
3.9	15.3						
4.0	15.0						
Total	S						





Statistics of Speeds

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0.9	66.5							-
1.0	60.0							+
1.1	54.5	//						100
1.2	50.0	JM-1M-11	1					100
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1.6	37.B	/XX - ///		//				48
1.7	35.0	/// - ///		/X/-	/			36
1.8	33.3	 						22
1.9	31.4	////						15
2.0	30.0	///						7
2.1	28.5	///						3
2.2	27.3		The state of the s					
2.3	26.0							
2.4	25.0							
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2.9	20.7				-	-		
3.0	20.0							
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STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DISTRICT 61 TRAFFIC SECTION SPOT SPEED STUDY

LOCATION: LA 641 ~ 1.8 MILES SOUTH OF I - 10 EAST BOUND OFF RAMP

REPORT!!

TIME OF STUDY 10:64 - 11:33 am.

DVLTE: 05/02/06

WEATHER: CLOUDY & WARM

DIRECTION OF TRAVEL NORTH & SOUTHBOUND ROUTE: LA 641

ROAD CONDITIONS GOOD PARISH: ST. JAMES

CONTROL SECTION 847 - 02

POSTED SPEED LIMIT 66

MEAN (AVERAGE) 62.1

15 THEFROENTHE 66

85 TH PERCENTILE: 70 95 THEFROENTHE 76

BOTTOM OF 10 MPH PACE SPEED: 56

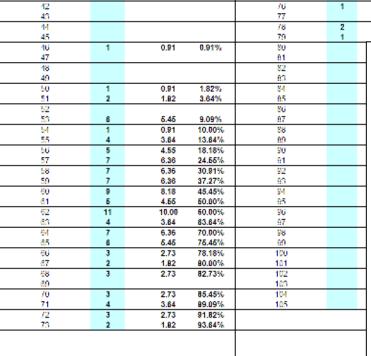
NO. OF DESERVATIONS: 110

TOP OF 10 MPLLPACE SPEED: 65

% OF VEHICLES IN PACE RANGE 61.8%

Statistics of Speeds

			Cumlative				Cumlative	
SPEED	FREQ.	Percent	Percent	SPEED	FREQ.	Percent	Percent	
40				74				\neg
41				75	3	2.73	96.36%	
42				/6	1	0.91	97.27%	П
43				77				
44				/8	2	1.82	99.09%	П
45				79	1	0.91	100.00%	
46	1	0.91	0.91%	80				





STATE OF LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT DISTRICT 61 TRAFFIC SECTION SPOT SPEED STUDY

LOCATION: LA 641 ~ 1.8 MILES SOUTH OF I - 10 EAST BOUND OFF RAMP

REPORT!!

TIME OF STUDY 10:64 - 11:33 am

LV/1E: 05/02/06

206 WEATHER CLOUDY & WARM

DIRECTION OF TRAVEL NORTH & SOUTHBOUND

ROAD CONDITIONS GOOD

ROUTE: LA 641 CONTROL SECTION 847 - 02 PARISH ST JAMES

POSTED SPEED LIMIT 66

MEAN (AVERAGE) 62.1 MODE: 62 MEDIAN 62 15 TH PERCENTILE 70

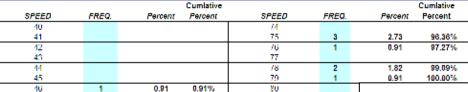
BOTTOM OF 10 MPH PACE SPEED: 56

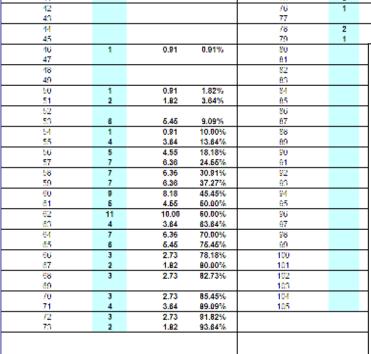
NO. OF DESERVATIONS: 110

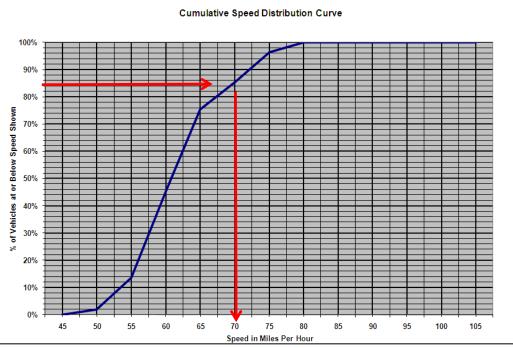
TOP OF 10 MPH PACE SPEED 65

% OF VEHICLES IN PACE RANGE 61.8%

Statistics of Speeds



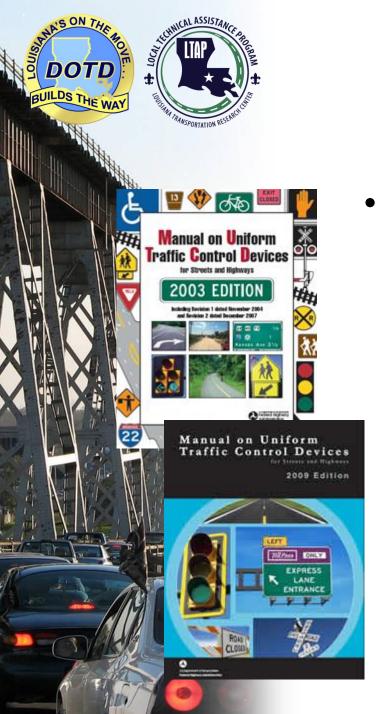






Inventory Roadway

- Type of roadway
- Geometric features
- Spacing of intersections/driveways
- Sight distance
- Horizontal/vertical alignment
- Crash data
- On street parking/Pedestrians



Determine 85th

 Manual on Uniform Traffic Control Devices (MUTCD)

"When a speed limit within a speed zone is posted, it should be within 5 mph of the 85th% of free-flowing traffic."



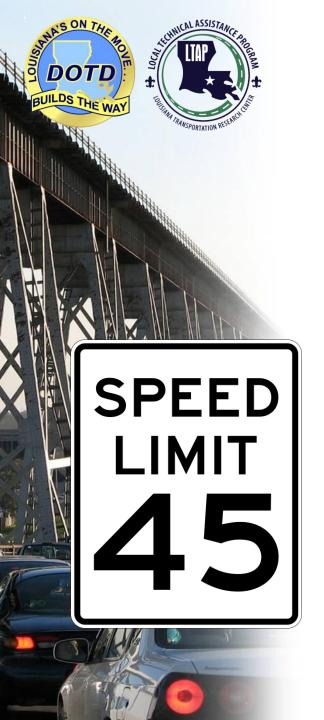
When not to use the 85th

- Above the statutory
- Road inventory issues
 - Features
 - Geometry
 - Crashes
 - Parking/pedestrians
- Schools



Chief Engineers Order

- Engineering report that states speed limit and the length of the zone
- Signed & Stamped by a licensed Professional Engineer
- Approval of Chief Engineer
- Filed in the local courthouse
- Signs are installed



Where Do You Place Signs?

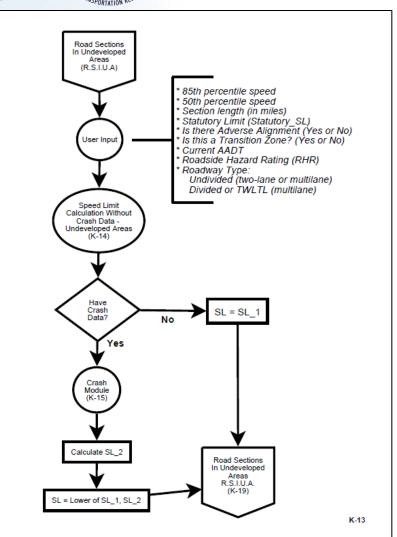
MUTCD requirements

- Where speed limits change
- Beyond major intersections
- Where necessary to remind road users





Future Tools



US LIMITS

- •A web based expert system for recommending speed limits in speed zones.
- •uslimits.com



Radar speed displays





Questions?

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peter.allain@la.gov

References:

www.legis.state.la.us
www.mutcd.fhwa.dot.gov
www.dotd.la.gov/highways/traffic/home.aspx



Terrebonne Parish Consolidated Government

Department of Public Safety





Terrebonne Parish Consolidated Government

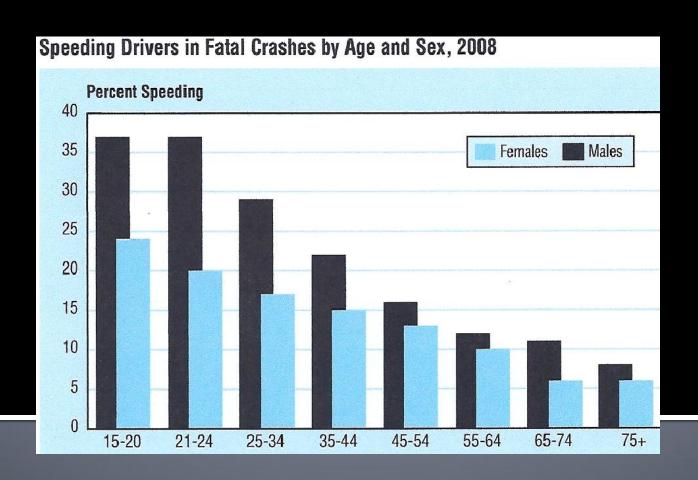
"Rational Speed Limits"







Terrebonne Parish Consolidated Government



Problem Statement





Terrebonne Parish Consolidated Government

NHTSA and FHWA Policy on Speeding

- 1. Speed Limits are Reasonable and Appropriate for Conditions
- 2. Public Information and Education on Risks Associated with Speeding
- 3. Understanding Who, Where, When, and Why of Speeding
- 4. Using a Variety of Techniques and Technologies for Speed Management
- 5. Targeted Enforcement







Terrebonne Parish Consolidated Government



Key Elements of a Balanced Speed Management Program





Terrebonne Parish Consolidated Government

- Speed Limits
- Education and Public Information
- Enforcement
- Research and Demonstration

Key Elements of a Balanced Speed Management Program





Terrebonne Parish Consolidated Government

SCPDC Speed Demonstration Program

- •FHWA Grant
- •85th Percentile Method
- Survey of Streets in Region
- Re-Posting of Speed Limits
- Enforcement
- Evaluation





Terrebonne Parish Consolidated Government

- Political Implications
- Costs
- Public Buy-In
- Environment of Location

Things to Consider





Terrebonne Parish Consolidated Government

SCPDC Demonstration Project http://scpdc.org/?page_id=91

Speed Concepts Information Guide

http://safety.fhwa.dot.gov/speedmgt/ref_mats/fhwasa10001

For More Information





Ralph D. Mitchell Jr.
Director of Public Safety

985-873-6405 rmitchelljr@tpcg.org

Terrebonne Parish Consolidated Government

Department of Public Safety



Louisiana State Police Traffic Operations







Sgt. Robert A. Burns II

Overview

- 675 troopers assigned to Patrol
- Assigned to nine Troop locations statewide
- Statewide jurisdiction
- Primary functions are traffic enforcement and crash investigation
- Provide support to all local police departments and sheriff's offices

Troop Locations



2009 Enforcement Statistics

- 14,245,031 miles patrolled
- 35,508 crashes investigated
- 196,080 speeding citations
- 95,449 seatbelt and child restraint citations
- 143,285 other citations
- 13,966 DWI arrests
- 9,761 criminal arrests
- 10,568 insurance violations

Speeding Citations

- Motivation is to promote public safety, not revenue
- LSP does not receive any funds generated from fines
- Vehicle speed directly influences many factors
 - Reaction time
 - Braking distance
 - Ability to navigate roadway surface conditions and/or alignment
 - Effectiveness of vehicle restraint systems to protect occupants
 - Effectiveness of roadway systems such as guardrails, impact attenuators and barriers to protect motorists

2007 NHTSA Report

- According to the National Highway Traffic Safety Administration, in 2007:
 - 31% of all fatal crashes were speeding-related
 - 13,040 resulting fatalities
 - Estimated economic cost to society......

\$40,400,000,000.00

Identifying Areas of Concern

TrafficStat Plan Analysis

- Provides concrete evidence of "problem areas"
- Effective tool for shift supervisors when determining staffing levels for Troop area
- All Troop personnel are issued a copy and utilize the information to identify areas in their area that warrant enhanced enforcement
- Not used as simply a "grant justification"

Identifying Areas of Concern

Citizens' Complaints

- www.lsp.org
- Each Troop has an email address that the public may voice their concerns
- All emails are reviewed by the Troop Commander
- Complaints are also received by telephone and in person

LSP Speed Enforcement

- All LSP Patrol Vehicles are equipped with the most advanced radar units available
- Troopers also use handheld scoped LIDAR units that use laser technology to measure speed





LSP Speed Enforcement

Air Support Speed Details

- LSP Pilots coordinate with Troopers on the ground to measure vehicles' speeds
- Conducted on all major Federal and Interstate Highways
- Effective tool against radar detectors



LSP Speed Enforcement

Motorcycle Patrol

Provides concentrated enforcement as directed by the Troop Commander

 Generally used in school zones, construction zones, and enforcement in response to citizens'

complaints



Aggressive Driving Task Force

- How do we define Aggressive Driving?
- How do we quantitatively measure the magnitude of the issue?
- How do we effectively analyze the data we currently have?
- What data should we work to capture in the future?
- What countermeasures can we develop?

Thank You

Sgt. Robert A. Burns II



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SCHOOLS

- School Warning
- Pedestrian Signs
- Speed Zone
- Flashing Sign
- School Bus Stop Ahead
- Crossing Guards



DOTD Policy

- Traffic Engineering Manual
 - Section 7A.2
 - Found on the LADOTD website under Transportation and Traffic Engineering
- MUTCD Chapter 7



School Warning Sign

- 1 driveway on state route
- Enrollment >100 students
- Combination of K-12





What Doesn't Qualify?

- Colleges
- Universities
- Preschools
 - Headstart
- Daycares



School Crosswalks

- School warning sign installed
- Volume of children crossing >10





Crosswalks are not justified if:

- Within 600 ft of another crosswalk
- Inadequate stopping sight distance
- Speeds > 50 mph
- For loading & unloading zones



Reduced School Speed Zones

- School warning warrant
- School crosswalk warrant





Time of Reduction

Morning:

45 minutes before school starts to
 15 minutes after school starts

Afternoon

15 minutes before school ends to
 45 minutes after school ends



Speed Reductions

Existing Speed	Reduction		
25 mph or less	0 mph		
30 mph	5 mph		
35 – 45 mph	10 mph		
50 mph	15 mph		
55 mph or above	0*		

^{*}Engineering study required for reduction



Chief Engineers Order

- State limits of speed limit
- States time of reduction
- Signed by Chief Engineer
- Legal files in local courthouse
- Signs are installed

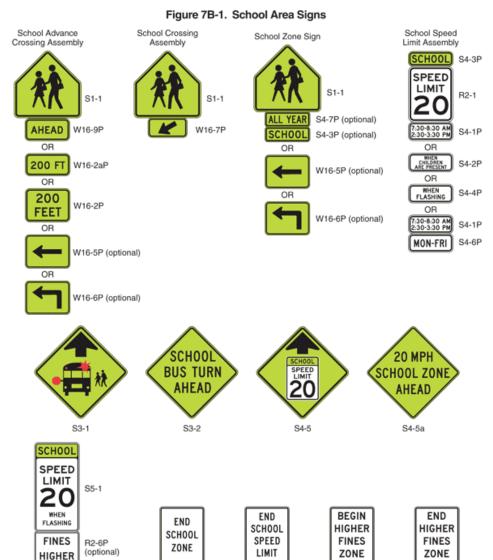


SIGNS

- Fluorescent yellow-green background (2009 MUTCD)
- Sizes are in Table 7B-1



SIGNS



S5-3

R2-10

R2-11

S5-2



Advanced School Sign



School Crosswalk Sign





School Speed Limit Warning



S4-5

School Speed Limit Sign





Figure 7B-5. Example of Signing for a School Zone with a School Speed Limit and a School Crossing

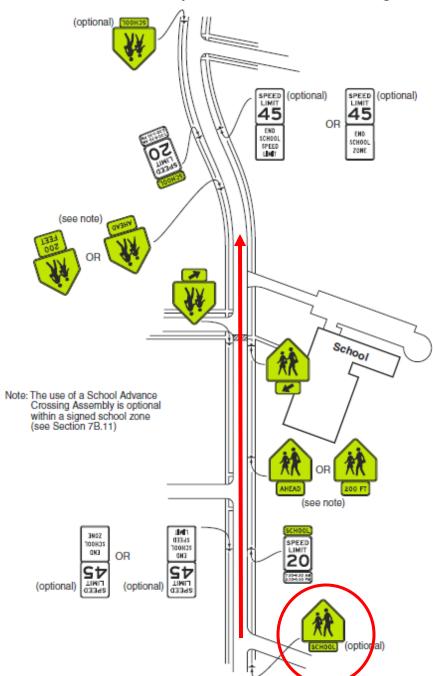




Figure 7B-5. Example of Signing for a School Zone with a School Speed Limit and a School Crossing

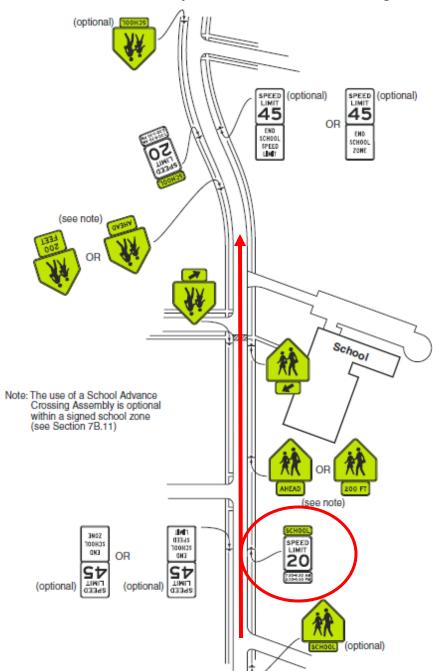




Figure 7B-5. Example of Signing for a School Zone with a School Speed Limit and a School Crossing

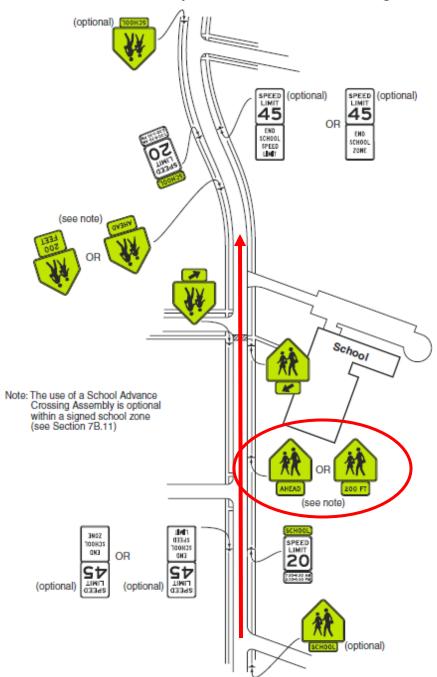




Figure 7B-5. Example of Signing for a School Zone with a School Speed Limit and a School Crossing

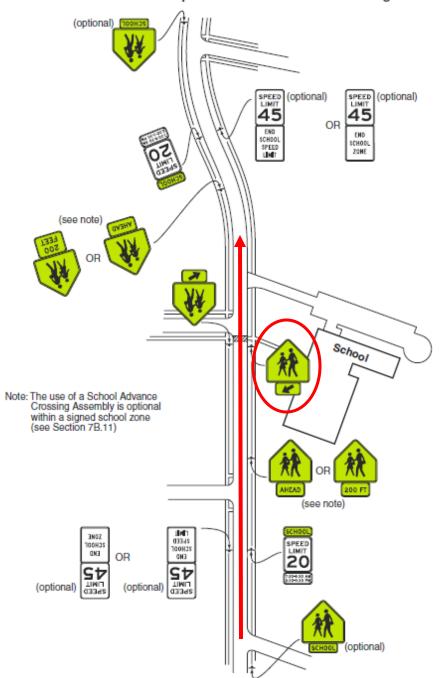
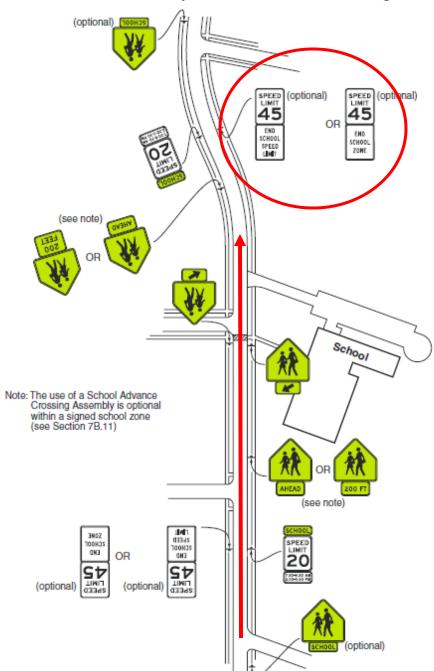




Figure 7B-5. Example of Signing for a School Zone with a School Speed Limit and a School Crossing





Flashing Beacons

- Traffic control permit –
 maintenance by owner of sign
 (not DOTD)
- DOTD approval for state roads







School Bus Stop Ahead Guidance

In the MUTCD (7B.13)

To be used when:

 There is inadequate stopping sight distance

 And the bus stop cannot be relocated





Crossing Guard

- MUTCD
 - Type of Crossing Supervision
 - Uniform
 - Mandatory Reflective Vest
 - Operating Procedures







Crossing Guard Qualifications

- 1. Average Intelligence
- 2. Good physical condition
- 3. Ability to control a STOP paddle
- 4. Ability to communicate specific instructions
- 5. Ability to recognize potentially dangerous situations



Crossing Guard Qualifications

- 6. Mental Alertness
- 7. Neat Appearance
- 8. Good Character
- 9. Dependability
- 10. An overall sense of responsibility for the safety of students



Questions?

Contact

Jody Colvin 225-242-4635 jody.colvin@la.gov

Louisiana Safe Routes to School



Safe Routes to School goals

Where it's safe, get kids walking and biking

Where it's not safe, make it safe







	FY 05	FY 06	FY07	FY 08	FY 09	Total
Louisiana	\$1,000,000	\$1,404,776	\$1,864,469	\$2,106,118	\$2,588,373	\$8,963,736

- ➤ The Safe Routes To School Program (SRTS) Was Created By Section 1404 Of SAFETEA-LU (HIGHWAY FUNDING BILL) - Signed into law in August, 2005
- > Funded for 5 Federal fiscal years (FY 2005-2009)
- Funding level determined by each state's K-8th grade enrollment
- > Administered by State Dept. of Transportation

Community conditions make it hard to walk or bike





Safe Routes to School Programs



Elements of Safe Routes to School programs

Education

Encouragement

Enforcement

Engineering

Evaluation



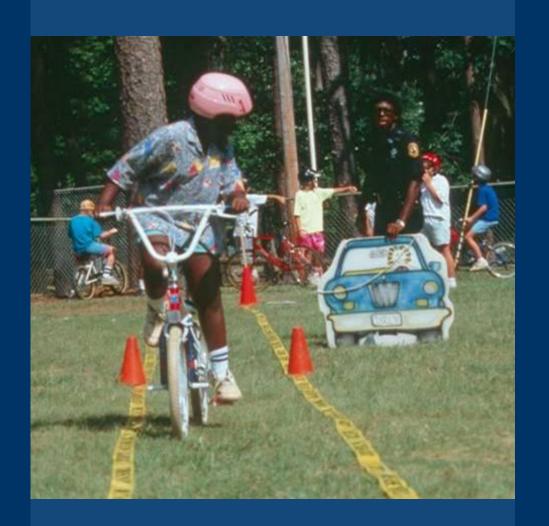
Education

Teaches safety skills

Creates safety awareness

Fosters life-long safety habits

Includes parents, neighbors and other drivers





Enforcement

Increases awareness of pedestrians and bicyclists

Improves driver behavior

Helps children follow traffic rules

Decreases parent perceptions of danger





Evaluation

- SAFETY BENEFITS
- BEHAVIORAL CHANGES
- OTHER BENEFITS
- PRE and POST DATA
- LONG TERM EVALUATION





Louisiana Safe Routes to School Program

- •4rd application cycle opened 1/4/10
- •50 projects approved for funding between 2007 and 2010
- •3 statewide conferences



Preparing To Apply

- Don't Wait Start Now
- Form A Team
- Collect Information
- Identify Problems
- Identify Solutions

Project Funding

Reimbursable Program – Not A Grant

Sponsor pays and is reimbursed

Federal Share Is 100%

- No match is required
- Use of other sources encouraged

Some Activities Will Not Be Funded

- Right of Way
- Utility Relocations

Project Funding (Cont.)

- Maximum of \$250,000 for infrastructure
- Maximum of \$50,000 for noninfrastructure
- Maximum of \$150,00 for large scale Noninfrastructure only projects

Inappropriate Use Of Funds

- Projects that do not specifically serve the stated purpose of the SRTS program
- Funds for reoccurring costs
- Projects solely to accommodate drivers or bus transportation
- Projects not within 2 miles of elementary or middle school

Project Selection

- Initial Review
 - Check Required Information
- Committee Review
 - Score Applications
 - Rank Application
- Select Projects To Be Funded
- Sponsor Notified

For more information...

Louisiana Safe Routes to School

www.dotd.louisiana.gov/planning/highwaysafety/saferoute

National Center for Safe Routes to School www.saferoutesinfo.org

US DOT Federal Highway Administration http://safety.fhwa.dot.gov/saferoutes/

LA-DOTD SRTS Contact information

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Safe Routes Louisiana Safe Routes to School









Traffic Engineering 101

Thank You!

 See you on May 24th at 2:00PM for Intersection Control and Management---All way stop, Traffic Signals, Roundabouts