

Automated Red Light Camera Enforcement



Presented to: Automated Red Light Enforcement Commission Date: Tuesday, August 25, 2015

PURPOSE

- Approval of April 7, 2015 minutes
- 2016 Goals and Objective
- Safety Update
- Performance & Program Update



2016 GOALS AND OBJECTIVES



Carmen Garcia, ARC Chair



Commission Duties and Functions

The commission is an advisory body to the city manager and the city council. The defined responsibilities are to:

- Make recommendations related to the automated red light enforcement program;
- Make recommendations relating to the installation and operation of photographic traffic signal enforcement systems in the city;
- Review results of traffic engineering studies for cameraenforced intersections;
- Review the placement of photographic traffic signal enforcement systems to help ensure that enforced intersections are selected without regard to the ethnic or socioeconomic characteristics of the area in which the intersections are located



Proposed 2016 Goals & Objectives

2015 Goals & Objectives

- 1. Assessment of Camera Locations
- 2. Marketing and Public Relations
- 3. Community Engagement
- 4. Texas Legislative Affairs

- 1. Create informational material to educate the public about the Safelight Program including online video capability on our website with red light approaches (good and bad).
- 2. Participate in community events to include school related events.
- 3. Continue to assess camera locations, by council districts, in conjunction with traffic flow.
- 4. Revise the current data and statistics reports to show the results of the program.
- 5. Continue the statutory mandate of the commission and recommend revisions where necessary.



SAFETY REPORT UPDATES



Kirk Houser, Transportation Engineer



Intersection Analysis

Detailed Analysis for one intersection

- Define the Intent of Analysis
- Description of Type of Information Desired
- Clarification on Available Information and Analysis



Safety Report

ACTIVE CAMERA APPROACHES REPORT

ALL Crash Types on Camera Approaches

Quantity	Duration	3 Years Before ALL Types	2 Years Before ALL Types	Before	3 Year Before AVG	After	2 Years After ALL Types	3 Years After ALL Types	4 Years After ALL Types	5 Years After ALL Types	6 Years After ALL Types	7 Years After ALL Types	8 Years After ALL Types	After AVG		PercentC hange	Reduction	No Change	Increase
33 Approaches	8 years (7/1/06 to 6/30/14)	89	217	192	166	168	129	124	133	155	159	159	144	146	-20	-11.8%	19	1	13
11 Approaches	6 years (7/1/08 to 6/30/14)	64	86	80	77	57	72	68	53	52	29			55	-22	-28.0%	9	0	2
6 Approaches	5 years (7/1/09 to 6/30/14)	81	53	66	67	72	59	40	25	21				43	-23	-34.9%	3	0	3
13 Approaches	4 years (7/1/10 to 6/30/14)	77	59	70	69	59	47	54	62					56	-13	-19.2%	9	0	4
																	40	1	22

Red Light Related Crashes on Camera Approaches

Quantitu	Duration	3 Years Before RLR	2 Years Before RLR	1 Year Before RLR	3 Year Before AVG	1 Year After RLR	2 Years After RLR	3 Years After RLR	4 Years After RLR	5 Years After RLR	6 Years After RLR	7 Years After RLR	8 Years After RLR	After		PercentC	Reduction	No	Increase
Quantity	Duration	RER	RLR	RLR		KEK	KEK	KEK	KEK	KEK	KLK	KLK	KEK	10	Change	nange	Reduction	change	increase
33 Approaches	8 years (7/1/06 to 6/30/14)	39	107	99	82	58	34	29	29	32	36	44	21	35	-46	-56.7%	21	1	11
11 Approaches	6 years (7/1/08 to 6/30/14)	15	21	17	18	12	12	12	10	3	5			9	-9	-49.1%	9	0	2
6 Approaches	5 years (7/1/09 to 6/30/14)	21	18	13	17	25	14	10	8	8				13	-4	-25.0%	4	0	2
13 Approaches	4 years (7/1/10 to 6/30/14)	14	9	12	12	6	3	9	4					6	-6	-52.9%	8	1	4
																	42	2	19

Rear-End Crashes on Camera Approaches

		3 Years Before	2 Years Before	1 Year Before	3 Year Before	1 Year After	2 Years After	3 Years After	4 Years After	5 Years After	6 Years After	7 Years After	8 Years After	After	AVG	PercentC		No	
Quantity	Duration	RE	RE	RE	AVG	RE	RE	RE	RE	RE	RE	RE	RE	AVG	Change	hange	Reduction	Change	Increase
33 Approaches	8 years (7/1/06 to 6/30/14)	21	44	29	31	38	36	37	49	47	51	42	56	45	13	42.0%	8	5	20
11 Approaches	6 years (7/1/08 to 6/30/14)	21	26	25	24	19	29	24	16	22	11			20	-4	-16.0%	5	2	4
6 Approaches	5 years (7/1/09 to 6/30/14)	16	12	8	12	12	9	8	7	3				8	-4	-35.0%	4	0	2
13 Approaches	4 years (7/1/10 to 6/30/14)	36	27	24	29	27	22	24	29					26	-4	-12.1%	5	0	8
																	22	7	34

All Other Crashes on Camera Approaches

Quantity	Duration	3 Years Before RE	2 Years Before RE	1 Year Before RE	3 Year Before AVG	1 Year After RE	2 Years After RE	3 Years After RE	4 Years After RE	5 Years After RE	6 Years After RE	7 Years After RE	8 Years After RE	After		PercentC hange	Reduction	No Change	Increase
33 Approaches	8 years (7/1/06 to 6/30/14)	29	66	62	52	72	59	58	55	76	72	73	67	67	14	27.1%	10	1	22
11 Approaches	6 years (7/1/08 to 6/30/14)	28	39	39	35	26	31	32	27	27	13			26	-9	-26.4%	7	1	3
6 Approaches	5 years (7/1/09 to 6/30/14)	44	23	41	36	35	36	22	10	10				23	-13	-37.2%	3	0	3
13 Approaches	4 years (7/1/10 to 6/30/14)	27	23	29	26	26	22	21	29					25	-2	-7.0%	6	0	7
																	26	0	25



Safety Report

ALL CRASH TYPES at ALL APPROACHES

ALL Crash Types at ALL Approaches

								•										
		2 Years	1 Year		1 Year	2 Years	3 Years	4 Years	5 Years	6 Years	7 Years	8 Years						
		Before	Before	2 Year	After	After	After	After	After	After	After	After						
		ALL	ALL	Before	ALL	ALL	ALL	ALL	ALL	ALL	ALL	ALL	After	AVG	Percent		No	
Quantity	Duration	Types	Types	AVG	Types	Types	Types	Types	Types	Types	Types	Types	AVG	Change	Change	Reduction	Change	Increase
31 Intersections	8 years (7/1/06 to 6/30/14)	606	528	567	509	401	415	450	433	367	412	354	418	-149	-26.3%	23	2	6
10 Intersections	6 years (7/1/08 to 6/30/14)	175	173	174	162	166	142	108	118	95			132	-42	-24.2%	8	0	2
6 Intersections	5 years (7/1/09 to 6/30/14)	155	160	158	187	152	105	75	77				119	-38	-24.3%	4	0	2
8 Intersections	4 years (7/1/10 to 6/30/14)	146	135	141	111	100	133	132					119	-22	-15.3%	4	0	4
																39	2	14

Red Light Related Crashes at ALL Approaches

		2 Years Before					3 Years After	4 Years After		6 Years After	7 Years After	8 Years After	After	AVG	Percent		No	
Quantity	Duration	RLR	RLR	AVG	RLR	RLR	RLR	RLR	RLR	RLR	RLR	RLR	AVG	Change	Change	Reduction	Change	Increase
31 Intersections	8 years (7/1/06 to 6/30/14)	259	209	234	170	122	106	98	108	100	90	75	109	-125	-53.6%	27	2	2
10 Intersections	6 years (7/1/08 to 6/30/14)	39	44	42	45	30	34	22	17	22			28	-13	-31.7%	6	1	3
6 Intersections	5 years (7/1/09 to 6/30/14)	41	37	39	54	36	22	8	12				26	-13	-32.3%	5	0	1
8 Intersections	4 years (7/1/10 to 6/30/14)	36	21	29	20	12	19	17					17	-12	-40.4%	5	1	2
																43	4	8

Rear-End Crashes at ALL Approaches

Quantity	Duration	2 Years Before RE	1 Year Before RE			2 Years After RE	3 Years After RE	4 Years After RE	5 Years After RE	6 Years After RE	7 Years After RE	8 Years After RE	After		Percent Change	Reduction	No Change	Increase
31 Intersections	8 years (7/1/06 to 6/30/14)	140	130	135	116	118	115	151	116	106	106	101	116	-19	-14.0%	16	2	13
10 Intersections	6 years (7/1/08 to 6/30/14)	49	41	45	41	55	35	28	37	25			37	-8	-18.1%	5	0	5
6 Intersections	5 years (7/1/09 to 6/30/14)	40	24	32	34	27	22	19	14				23	-9	-27.5%	5	0	1
8 Intersections	4 years (7/1/10 to 6/30/14)	47	48	48	36	38	48	44					42	-6	-12.6%	4	1	3
																30	3	22



Safety Report INJURIES at ALL APPROACHES

Injuries at ALL Approaches

		3 Years Before	2 Years Before	1 Year Before		1 Year After	2 Years After	3 Years After	4 Years After	5 Years After	6 Years After	7 Years After	8 Years After	After	AVG	Percent		No	
Quantity	Duration	Injuries	Injuries	Injuries	AVG	Injuries	Injuries	Injuries	Injuries	Injuries	Injuries	Injuries	Injuries	AVG	Change	Change	Reduction	Change	Increase
31 Intersections	8 years (7/1/06 to 6/30/14)	267	679	601	640	492	378	345	422	327	333	339	321	377	-263	-41.2%	21	5	5
10 Intersections	6 years (7/1/08 to 6/30/14)	159	116	136	126	150	128	134	72	80	72			113	-13	-10.5%	7	0	3
6 Intersections	5 years (7/1/09 to 6/30/14)	172	111	127	119	175	127	70	55	62				107	-12	-10.3%	2	1	3
8 Intersections	4 years (7/1/10 to 6/30/14)	142	112	106	109	85	75	102	114					87	-22	-19.9%	7	0	1
																	37	6	12

Red Light Related Injuries at ALL Approaches

		3 Years Before	2 Years Before	1 Year Before	2 Year Before		2 Years After	3 Years After	4 Years After	5 Years After	6 Years After	7 Years After	8 Years After	After	AVG	Percent		No	
Quantity	Duration	RLR	RLR	RLR	AVG	RLR	RLR	RLR	RLR	RLR	RLR	RLR	RLR	AVG	Change	Change	Reduction	Change	Increase
31 Intersections	8 years (7/1/06 to 6/30/14)	80	235	200	218	153	97	92	94	74	87	87	96	98	-120	-55.1%	21	4	6
10 Intersections	6 years (7/1/08 to 6/30/14)	41	19	36	28	40	20	41	11	16	16			26	-2	-6.9%	5	0	5
6 Intersections	5 years (7/1/09 to 6/30/14)	46	23	33	28	47	28	19	12	17				27	-2	-5.4%	4	1	1
8 Intersections	4 years (7/1/10 to 6/30/14)	23	18	15	17	5	6	15	16					9	-8	-47.5%	5	2	1
																	35	7	13

Red Light Related Injuries at Camera Approaches

Quantity	Duration	3 Years Before RLR	2 Years Before RLR	1 Year Before RLR	2100		2 Years After RLR	3 Years After RLR	4 Years After RLR	5 Years After RLR	6 Years After RLR	7 Years After RLR	8 Years After RLR	After		Percent Change	Reduction	No Change	Increase
33 Approaches	8 years (7/1/06 to 6/30/14)	27	95	101	98	53	29	25	37	25	28	42	22	34	-64	-65.2%	21	0	12
11 Approaches	6 years (7/1/08 to 6/30/14)	19	16	14	15	10	7	13	4	2	4			7	-8	-52.0%	7	0	4
6 Approaches	5 years (7/1/09 to 6/30/14)	24	11	9	10	26	14	11	7	6				15	5	45.0%	1	1	4
13 Approaches	4 years (7/1/10 to 6/30/14)	8	6	9	8	0	3	7	3					3	-4	-55.6%	5	5	3
																	34	6	23



PERFORMANCE & PROGRAM UPDATE



Wendy Nalls, Dallas Police Department



FY 14-15 Quarterly Performance

	<u>FY</u>	14-15 Citat	tions	
	ОСТ	NOV	DEC	1st Qtr. Total
Citations	12,071	9,400	11,556	33,027
	JAN	FEB	MAR	2 nd Qtr. Total
Citations	10,972	10,238	12,013	33,223
	APRIL	MAY	JUNE	3 rd Qtr. Total
Citations	13,375	14,837	14,685	42,897
	JULY	AUG	SEPT	4 th Qtr. In Progress
Citations	11,653			11,653
Total YTD				120,800



Public Awareness Events Scheduled for FY 14-15

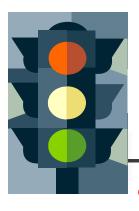
EVENTS



- Chief on the Beat Carolyn N. Buckhair Elementary School, Dallas, Tx. 5/2015
- Dallas Auto Convention 3/2015
- Mayors Back to School Fair 8/2015
- Mary Kay International Convention 8/2015







Program Update

- New Camera Installations in Progress
- Top 10 Cities For Red-Light Related Accident Fatalities

Below are the top ten cities that had the highest number of red-light running fatalities between 2004-2013.

- 1. HOUSTON, TX 181 Fatalities
- 2. PHOENIX, AZ 127 Fatalities
- 3. LOS ANGELES, CA 125 Fatalities
- 4. LAS VEGAS, NV 105 Fatalities
- 5. CHICAGO, IL 99 Fatalities
- 6. MIAMI, FL 82 Fatalities
- 7. DALLAS, TX 71 Fatalities
- 8. PHILADELPHIA, PA 63 Fatalities
- 9. TUCSON, AZ 61 Fatalities
- 10. DENVER, CO 60 Fatalities

Source: National Coalition for Safer Roads derived from data provided by the <u>National Highway Traffic Safety Administration's</u> Fatality Analysis Reporting System (FARS).



2015 - 2016 Tentative Meeting Dates

Meeting time: 9:30 am - 11:30 am

Tuesday, October 20, 2015 Tuesday, January 19, 2016 Tuesday, April 19, 2016 Tuesday, August 2, 2016 Tuesday, October 25, 2016

Appendices

- Response to Questions from April 7, 2015 meeting
- List of ARC Members
- Red Light Camera Map
- Red Light Camera Locations

Memorandum



Date 6/29/2015

- To Donzell Gibson ; Oscar Ramos Dallas PD
- From Kirk Houser, P.E. Sr. Program Manager Department of Street Services – Transportation Operations Traffic Congestion Management

Subject Red Light Camera Commission Questions from April 7, 2015 meeting

Questions

1. On the Safety Report (see attachment)

a. Can you add a table that provides a category for "Other crashes"? Currently we have RL related on Camera Approaches and RE related on Camera Approaches but these (2) tables together do not add up the figures provided on the "All Crash Types on Camera Approaches". Having this will allow for the "All Crash Types" table to add up to the remaining tables as the existing ones for RL and RE do not add up the total for All crash types on Camera Approaches.

See attached chart.

b. Second, can you provide examples of crash types that will be defined as "Other" which hopefully will define why they are not considered red light related. Make it a footnote on the table.

In Texas, crashes are reported by peace officers on a standardized form: Texas Peace Officer's Crash Report. The data from these forms are input into the statewide Crash Records Information system. The City of Dallas exports the data from CRIS to use in crash analysis for the Safelight program. Staff relies upon information from the database and forms. The peace officer uses witness statements to fill out the form.

Red Light Related crashes:

Right Angle – T-bone style crashes Left Turn (only when one vehicle ran a red light)

Rear End Crashes:

Only rear end crashes upstream to a signal are counted

Other:

Side swipe crashes Failure to stay in lane Improper lane change Right Turn on Green collision with pedestrian Permissive Left Turn on Green Ball collisions Collisions caused by Backing Up Rear End collisions – downstream of intersection Crossed centerline Wrong way driving Vehicle left roadway – hit fixed object

2. Is a Rear End crash considered a Red Light Related Crash?

No. Rear End collisions are tabulated separately from Red Light Related.

3. We have RE crashes broken out separately. Is that because they are considered a consequence of the red light camera and or a side effect?

As a general rule the installation of <u>any traffic signal</u> decreases Right Angle collisions while possibly increasing rear end collisions.

Right angle collisions typically occur when one driver ignores a traffic control device (traffic signal, stop sign, yield sign).

Rear end collisions typically occur when one driver is ignoring the actions of the driver in front.

An unsignalized intersection (2 way stop) might have a Right Angle crash problem. This is one of the conditions that warrant the installation of a traffic signal. Once a signal is installed, the chances for Rear End collisions increase as traffic on the previously free flow street now occasionally have to stop.

Right angle crashes are almost always more serious than Rear End collisions. The benefits of installing a traffic signal and reducing right angle crashes should outweigh the potential for increase in rear end collisions.

A green signal indicated to the driver that they have the right of way. A solid yellow indication at a traffic signal is supposed to warn a driver that their right of way is about to end. The driver has to make a decision. If a signal turns yellow and the driver is far from the upcoming intersection, the driver has an easy decision to make. Most drivers will stop. If a signal turns yellow and the driver is very close to the intersection, the driver usually has an easy decision to make. Most drivers will continue thru the intersection.

Yellow signal timing attempts to factor in the reaction time of the driver, the speed of the vehicle and the average stopping time a vehicle needs. Streets with higher speeds need a higher yellow time.

As mentioned above, when either far from the signal or very close to the signal, the driver

has an easy decision. There is an area in-between called the <u>dilemma zone</u>. If the driver is in this area, their decision is harder. A driver may hesitate. A driver may choose to speed up. A driver may choose to abruptly stop.

If the driver of a second following vehicle is following too closely or not paying attention, they may have a rear end collision with the lead vehicle.

Rear end collisions are almost always the fault of the following driver, regardless of the actions of the lead vehicle driver.

Traffic engineers do try to time yellow lights in a way to minimize the dilemma zone and help drivers make good decisions.

Misunderstanding of the yellow light

There is a common misconception that drivers are not allowed to 'run a yellow light'. The definition of running a <u>red</u> light is entering an intersection by crossing the stop bar after the light is red. There is no violation in crossing the stop bar on yellow. Many drivers do not understand this and may choose more frequently to stop abruptly. This action mixed with following too closely and driver inattention for the following vehicle can increase rear end crashes.

Red light cameras

The misunderstanding of the purpose of the yellow light, plus the added fear of getting a ticket may lead to an increase in sudden braking. Any resulting rear-end crash is caused by the following vehicle's driver not paying attention or following too closely.

Summary:

At all traffic signals,

Lead driver making wrong decision in dilemma zone and abruptly stopping Lead driver misunderstanding meaning of yellow signal

will cause an increase in abrupt stopping.

At red light camera intersections,

The fear of receiving a ticket mixed with misunderstanding the meaning of the yellow signal,

Can increase abrupt stopping.

All rear end collisions are due to:

Following driver following too closely Following driver inattention

It is important to remember:

Rear end collisions are almost always the fault of the following driver, regardless of the actions of the lead vehicle driver and regardless of the traffic signal.

To answer the question:

The City of Dallas tracks Rear End collisions to see if red light cameras have an effect on rear end collisions.

4. Does the State of Texas specifically ask us to report RE crashes?

Yes

If so, do we have it correlated in data analysis and defined the same way in our data as does the State?

Yes

5. Is it possible to have a worksheet showing the various categories of crash types?

Motor vehicle drivers have found a near infinite variety of crash combinations. Instead of listing each separately, the Texas Peace Officer's Crash Report breaks things into:

Sequence of Events This data set describes if something was hit and what it was.

Factors and Conditions This data set usually describes an action or other condition, such as Disregard Stop and Go signal Failed to yield right of way – Turning Left 73 Factors total

Vehicle Defects Weather conditions Light conditions (Day, Night) Surface condition (Dry, Wet, Ice, etc...)

(Refer to attached code sheets)

Traffic Engineers look at these datasets, but also look at the angle of the crash. The example list from the answer to Question 1b is pretty comprehensive for what we look at with regards to traffic signals with or without red light cameras.

Right Angle – T-bone style crashes Left Turn Rear End Side swipe crashes Failure to stay in lane Improper lane change Right Turn on Green collision with pedestrian Collisions caused by Backing Up Crossed centerline Wrong way driving Vehicle left roadway – hit fixed object

6. Please provide an analysis of (1) intersection as the "Safety Report" for the next ARC meeting in August.

Do to the effort required to produce the state mandated annual report to TxDOT, which is due in October, Traffic Engineering staff can produce this analysis at the October meeting instead of the August meeting. Plus clarification of "analysis of 1 intersection" is needed.

CRASHES ACTIVE LOCATIONS

ALL Crash Types on Camera Approaches

Quantity	Duration	3 Years Before ALL Types	2 Years Before ALL Types	1 Year Before ALL Types	3 Year Before AVG	1 Year After ALL Types	2 Years After ALL Types	3 Years After ALL Types	4 Years After ALL Types	5 Years After ALL Types	6 Years After ALL Types	7 Years After ALL Types	8 Years After ALL Types	After	AVG Change	PercentC hange	Reduction	No Change	Increase
33 Approaches	8 years (7/1/06 to 6/30/14)	89	217	192	166	168	129	124	133	155	159	159	144	146	-20	-11.8%	19	1	13
11 Approaches	6 years (7/1/08 to 6/30/14)	64	86	80	77	57	72	68	53	52	29			55	-22	-28.0%	9	0	2
6 Approaches	5 years (7/1/09 to 6/30/14)	81	53	66	67	72	59	40	25	21				43	-23	-34.9%	3	0	3
13 Approaches	4 years (7/1/10 to 6/30/14)	77	59	70	69	59	47	54	62					56	-13	-19.2%	9	0	4
																	40	1	22

Red Light Related Crashes on Camera Approaches

		3 Years Before	2 Years Before	1 Year Before	3 Year Before	1 Year After	2 Years After	3 Years After	4 Years After	5 Years After	6 Years After	7 Years After	8 Years After	After	AVG	PercentC		No	
Quantity	Duration	RLR	RLR	RLR	AVG	RLR	RLR	RLR	RLR	RLR	RLR	RLR	RLR	AVG	Change	hange	Reduction	Change	Increase
33 Approaches	8 years (7/1/06 to 6/30/14)	39	107	99	82	58	34	29	29	32	36	44	21	35	-46	<mark>-56.7%</mark>	21	1	<mark>11</mark>
11 Approaches	6 years (7/1/08 to 6/30/14)	15	21	17	18	12	12	12	10	3	5			9	-9	-49.1%	9	0	2
6 Approaches	5 years (7/1/09 to 6/30/14)	21	18	13	17	25	14	10	8	8				13	-4	-25.0%	4	0	2
13 Approaches	4 years (7/1/10 to 6/30/14)	14	9	12	12	6	3	9	4					6	-6	-52.9%	8	1	4
																	42	2	19

Rear-End Crashes on Camera Approaches

		3 Years Before	2 Years Before	1 Year Before	3 Year Before	1 Year After	2 Years After	3 Years After	4 Years After	5 Years After	6 Years After	7 Years After	8 Years After	After	AVG	PercentC		No	
Quantity	Duration	RE	RE	RE	AVG	RE	RE	RE	RE	RE	RE	RE	RE	AVG	Change	hange	Reduction	Change	Increase
33 Approaches	8 years (7/1/06 to 6/30/14)	21	44	29	31	38	36	37	49	47	51	42	56	45	13	42.0%	8	5	20
11 Approaches	6 years (7/1/08 to 6/30/14)	21	26	25	24	19	29	24	16	22	11			20	-4	-16.0%	5	2	4
6 Approaches	5 years (7/1/09 to 6/30/14)	16	12	8	12	12	9	8	7	3				8	-4	-35.0%	4	0	2
13 Approaches	4 years (7/1/10 to 6/30/14)	36	27	24	29	27	22	24	29					26	-4	-12.1%	5	0	8
																	22	7	34

All Other Crashes on Camera Approaches

Quantity	Duration	3 Years Before RE	2 Years Before RE	1 Year Before RE	3 Year Before AVG	1 Year After RE	2 Years After RE	3 Years After RE	4 Years After RE	5 Years After RE	6 Years After RE	7 Years After RE	8 Years After RE	After AVG	AVG Change	PercentC hange	Reduction	No Change	Increase
33 Approaches		29	66	62	52	72	59	58	55	76	72	73	67	67	14	27.1%	10	1	22
11 Approaches		28	39	39	35	26	31	32	27	27	13			26	-9	-26.4%	7	1	3
6 Approaches	5 years (7/1/09 to 6/30/14)	44	23	41	36	35	36	22	10	10				23	-13	-37.2%	3	0	3
13 Approaches	4 years (7/1/10 to 6/30/14)	27	23	29	26	26	22	21	29					25	-2	-7.0%	6	0	7
																	26	2	35

Texas Peace Officer's Crash Report – Code Sheet

Numbered Fields on the C the form and the description		ed Lists on this Code She	eet. Each li	ist includes the code	s that may be entered on	h Law Er		xDOT Use ONLY. CR-3CS 1/1/2010
In Roadway System IH = Interstate US = US Highway SH = State Highway FM = Farm to Market RR = Ranch Road RM = Ranch to Market BU = Business Interstate BU = Business US BS = Business FM SL = State Loop TL = Toll Road	SP = Spur CR = County Road PR = Park Road PV = Private Road RC = Recreational Ro LR = Local Road/Stree		1 = Main/f 2 = Servic 3 = Entrar 4 = Exit/O 5 = Conne	way Part Proper Lane ce/Frontage Road nce/On Ramp ff Ramp ector/Flyover er (Explain in Narrativ	3. Street Prefix, Direction from Ir Ref. Marker N = North NE = Northeast E = East SE = Southeast S = South SW = Southwest W = West NW = Northwest	ST = Stre DR = Driv AVE = Av	ad EXP eet CT = /e CIR /enue PL = Boulevard PAR Parkway CV = e reeway ighway ail	Y = Expressway Court = Circle Place K = Park = Cove
5. Unit Description 1 = Motor Vehicle 2 = Train 3 = Pedalcyclist 4 = Pedestrian 5 = Motorized Conveyance 6 = Towed/Trailer 7 = Non-Contact 98 = Other (Explain in Narrative)	6. Vehicle Color BGE = Beige BLK = Black BLU = Blue BRZ = Bronze BRO = Brown CAM = Camouflage CPR = Copper GLD = Gold GRY = Gray GRN = Green MAR = Maroon MUL = Multicolored	ONG = Orange PNK = Pink PLE = Purple RED = Red SIL = Silver TAN = Tan TEA = Teal (green) TRQ = Turquoise (blue) WHI = White YEL = Yellow 98 = Other (Explain in Narrative) 99 = Unknown	P2 = P4 = PK = BU = SB = FE = FT = MC =	Ddy Style Passenger Car, 2-Do Passenger Car, 4-Do Pickup Ambulance Bus Yellow School Bus Farm Equipment Fire Truck Motorcycle Sport Utility Vehicle		cycle -Trailer, or Pole Tra r	Type 1 = Driver	ercial Driver Lic. ational d nsed
9. Driver License Class A = Class A AM = Class A and M B = Class B BM = Class B and M C = Class C CM = Class C and M M = Class M 5 = Unlicensed 98 = Other/Out of State 99 = Unknown (12. Person Type)	License Endorsen H = Hazardous Materi N = Tank Vehicles P = Passengers S = School Bus T = Double/Triple Trail X = Tank Vehicle with HazMat 5 = Unlicensed 96 = None 98 = Other/Out of Stat 99 = Unknown	$\begin{array}{l} C = Daytime \mbox{ Only } \\ D = Not \mbox{ to Exceed} \\ E = No \mbox{ Expressiva} \\ F = Must \mbox{ Hold Vali} \\ G = TRC \mbox{ 545.424} \\ H = Vehicle \mbox{ Not to } \\ I = Motorcycle \mbox{ Not } \\ J = Licensed \mbox{ Moto} \end{array}$	e Lenses or Over 45 MPH ay Driving id Learner Applies un Exceed 20 to Exceed	Lic. to MM/DD/YY htil MM/DD/YY 6,000 lbs GVWR 1 250 CC erator Age 21	L = Vehicle w/o Air Brake Vehicles Requiring CDL M = CDL Intrastate Com N = Ignition Interlock Rec O = Occ./Essent. Need D See Court Order P = Stated on License Q = LOFS 21 or Over Ve Class B R = LOFS 21 or Over Ve Class C S = Outside Rear View M Hearing Aid 14. Injury Severity	U = merce Only V = quired W DL-No CMV- X = Nicle Above Z = hicle Above 5 = 96 hirror or 98	 Applicable Pros Applicable Vehi Power Steering Vehicle Not to E Valid TX Vision q'd. Valid Fed. Visio q'd. Unlicensed None Other/Out of S Unknown 	thetic Devices cle Devices ixceed Class C or Limb Waiver n or Limb Waiver
1 = Driver 2 = Passenger/Occupar 3 = Pedalcyclist 4 = Pedestrian 5 = Driver of Motorcycle 6 = Passenger/Occupar Vehicle 98 = Other (Explain in N 99 = Unknown	Type Vehicle t on Motorcycle Type	1 = Front Left 2 = Front Center 3 = Front Right 4 = Second Seat Left 5 = Second Seat Center 6 = Second Seat Right 7 = Third Seat Left 8 = Third Seat Center 9 = Third Seat Right 19. Airbag	13 = Othe 14 = Pas 16 = Ped or Motoria	side Vehicle er in Vehicle senger in Bus lestrian, Pedalcyclist, zed Conveyance er (Explain in	A = Incapacitating Injur B = Non-Incapacitating Injury C = Possible Injury	ry W = White	1 = Male 2 = Female 99 = Unknown	1 = No 2 = Yes 3 = Yes, Partial 97 = Not Applicable 99 = Unknown
18. Restraint Used 1 = Shoulder and Lap B 2 = Shoulder Belt Only 3 = Lap Belt Only 4 = Child Seat, Facing F 5 = Child Seat, Facing F 6 = Child Seat, Unknow 20. Helmet Use 4 = Mat Marce	96 = None 97 = Not Applic Forward 98 = Other (Exp Narrative) 99 = Unknown 21. Solicitation	able 1 = Not Deployed, F able 3 = Deployed, F 1 = not Deployed, F 3 = Deployed, S 4 = Deployed, S 5 = Deployed, N 97 = Not Applic 99 = Unknown 22. Alcohol Specim	Front Side Rear Multiple able	letter code), and Y is the Dama	er in the format of Force (1-12), le Description 2- or 3-	10 ¹¹²¹ 2 987	$ \begin{array}{c} FD \\ 10^{12} 12 \\ FC \\ FC \\ 12 \\ 10^{11} \\ \hline 10^$	$\begin{bmatrix} R \\ 2_1 \\ 2 \\ 1 \\ 4 \end{bmatrix}_{2}^{2} RFQ$
1 = Not Worn 2 = Worn, Damaged 3 = Worn, Not Damaged 4 = Worn, Unk. Damaged 97 = Not Applicable 99 = Unknown if Worn 23. Drug Specimen 2 = Blood 3 = Urine 4 = Refused 96 = None 98 = Other (Explain in N 24. Drug Test Result 1 = Positive 2 = Negative 97 = Net Applicable	Type 25. Dr 2 = CNS 3 = CNS 3 = CNS 4 = Hall 6 = Nar 7 = Inha 8 = Car 8 = Car 10 = Dis 11 = Ms 97 = Ncc 97 = Ncc	nabis sassociative Anesthetics ıltiple Drugs (Explain in N t Applicable	arrative)	VB-1 = vehicle bur collision	ches fire due to the LD e only age damage only e, moped, scooter, LP le (Farm Tractor, L&T	¹ ¹¹ ¹ ¹ ¹ ¹ ¹ ¹		$ \begin{array}{c} 5 \\ \uparrow & 1 \\ 5 \\ & 7 \\$
97 = Not Applicable 99 = Unknown 26. Financial Respu 1 = Liability Insurance P 2 = Proof of Liability Ins 3 = Insurance Binder 4 = Surety Bond	99 = Ur onsibility Type olicy 5 = Certificate urance 6 = Certificate	her Drugs (Explain in Nar known e of Deposit with Comptro e of Deposit with County J e of Self-Insurance	ller			765 BL	6 /	₅ 5 ⁷ R

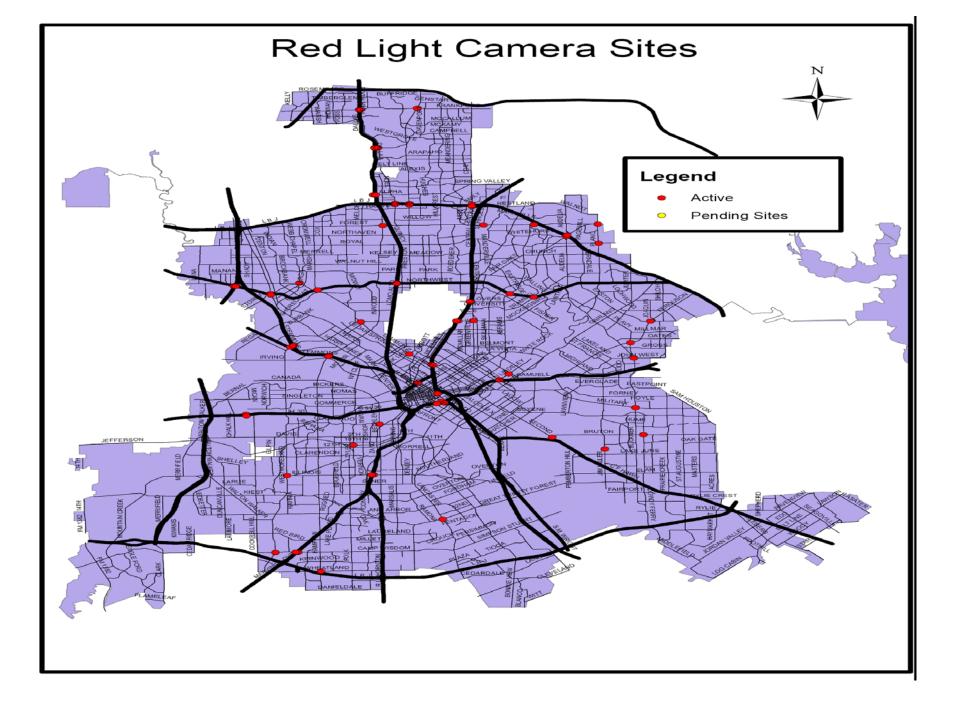
Texas Peace Officer's Crash Report – Code Sheet Numbered Fields on the CR-3 Refer to the Numbered Lists on this Code Sheet. Each list includes the codes that may be entered on

(n	e form and the description of	each code.						Form CR-3CS 1/1/2010
	28. Vehicle Operation	29. Carrie		30. Roadway Ac				lous Material Class Number
	1 = Interstate Commerce	1 = US DOT	Ē	1 = Full Access Cont			1 = Explosive	es l
	2 = Intrastate Commerce	2 = TxDOT		2 = Partial Access C			2 = Gases	
	3 = Not in Commerce	3 = ICC/MC		3 = No Access Contr	ol 3 = Bus (9-15)		3 = Flammab	le Liquids
	4 = Government	96 = None			4 = Bus (>15)		4 = Flammab	le Solids
	5 = Personal	98 = Other	(Explain in Narrative)		5 = Single Uni	t Truck 2 Axles 6 Tires	5 = Oxidizers	and Organic Peroxides
					6 = Single Uni	t Truck 3 or More Axles	6 = Toxic Ma	terials and Infectious Substances
					7 = Truck Trai	ler	7 = Radioacti	ve Materials
					8 = Truck Trac	ctor (Bobtail)	8 = Corrosive	Materials
					9 = Tractor/Se		9 = Miscellan	eous Dangerous Goods
Щ					10 = Tractor/D			5
2					11 = Tractor/T	riple Trailer		
Η					98 = Other (E)	kplain in Narrative)		
S					99 = Unknown			
R	33. Cargo Body Style							
E	33. Cargo Body Style				34. Trailer	Туре		
ĭ	1 = Bus (9-15)	8 = Auto Tra	ansporter 15 =	Vehicle Towing Anoth				
⊧	2 = Bus (>15)	9 = Garbag	e Refuse Vehic	cle	2 = Semi-Trail	er		
3	2 = Bus (s-15) 3 = Van/Enclosed Box 4 = Cargo Tank 5 = Flatbed 6 = Dump 7 = Corgo Tank	10 = Grain (Chips Gravel 97 =	Not Applicable	3 = Pole Traile			
Ř	4 = Cargo Tank	11 = Pole	. 98 =	Other (Explain in Nar				
H	5 = Flatbed	13 = Interm		、 1	<i>,</i>			
Ī	6 = Dump	14 = Loggin						
B	7 = Concrete Mixer	00	0					
Г ⁻								
1	35. Sequence of Event		<u>.</u>			47 0 11 1 1 1 1		
1	1 = Non-Collision: Ran Off F			sion: Equipment Fail	ure	17 = Collision Involving A		
1	2 = Non-Collision: Jackknife		10 = Non-Coll			18 = Collision Involving F		
1	3 = Non-Collision: Overturn			ision: Unknown		19 = Collision With Work		
	4 = Non-Collision: Downhill	Runaway		Involving Pedestrian		20 = Collision With Other		
	5 = Non-Collision: Cargo Lo	oss Or Shift		Involving Motor Vehi		21 = Collision With Unkno		Dbject
	6 = Non-Collision: Explosior	n Or Fire		Involving Parked Mot	or Vehicle	98 = Other (Explain in Na	rrative)	
	7 = Non-Collision: Separation	on of Units		Involving Train				
	8 = Non-Collision: Cross Me	edian/Center	ine 16 = Collision	Involving Pedalcycle				
	36. Factors and Condit	tions						
	1 = Animal on Road - Domes		33	B = Failed to Yield RO	W – Open Intersection	56 = Pa	rked without L	ights
		SUC		= Failed to Yield RO			ssed in No Pa	
	2 = Animal on Road - Wild			$\vec{b} = Failed to Yield RO$			ssed on Right	
	3 = Backed without Safety			S = Failed to Tield ROS = Failed to Yield RO				ROW to Vehicle
	4 = Changed Lane when Un			' = Failed to Yield RO			safe Speed	
	14 = Disabled in Traffic Lane							r Limit)
	15 = Disregard Stop and Go			B = Failed to Yield RO = Failed to Yield RO			eeding – (Ove	n (Explain in Narrative)
	16 = Disregard Stop Sign or			= Failed to Yield RO				
	17 = Disregard Turn Marks a) = Fatigued or Asleep				ly – Cut Corner on Left
	18 = Disregard Warning Sigr	n at Construc		= Faulty Evasive Act	ION			ly – Wide Right
	19 = Distraction in Vehicle			2 = Fire in Vehicle	Delias		rned improper rned when Un	ly – Wrong Lane
	20 = Driver Inattention			B = Fleeing or Evading				
	21 = Drove Without Headligh			= Followed Too Clos			der Influence	
	22 = Failed to Control Speed			5 = Had Been Drinking			der Influence	
	23 = Failed to Drive in Single				er (Explain in Narrative	,	•	proach or Intersection
	24 = Failed to Give Half of R			III (Explain in Narra)			ong Side – No ong Way – Or	
	25 = Failed to Heed Warning	g Sign		B = Impaired Visibility B = Improper Start from			Il/Mobile Phon	,
	26 = Failed to Pass to Left S		50	= Load Not Secured			ad Rage	
ò	27 = Failed to Pass to Right	Safely		= Opened Door Into			ner (Explain in	Norrativo
Ē	28 = Failed to Signal of Gav	e wrong Sigi	1ai 51	2 = Oversized Vehicle		90 = Oli		Nallalive)
5	29 = Failed to Stop at Prope		52		s Insufficient Clearance	2		
ğ	30 = ralled to Stop for Scho	UI DUS	53	= Overlake and Failed				
5	 27 = Failed to Pass to Right 28 = Failed to Signal or Gav 29 = Failed to Stop at Prope 30 = Failed to Stop for Scho 31 = Failed to Stop for Train 32 = Failed to Xield ROW = 	Emorgeners	Jahiolo 55	= Parked in Traffic L				
≩		Lineigency \						
S	37. Venicle Defects		38. Weather Co	ndition	39. Light Condition	<u>n</u>	40.	Entering Roads
Ř	5 = Defective or No Headlan 6 = Defective or No Stop Lar	nps	1 = Clear		1 = Daylight			Three Entering Roads – T
Ĕ	6 = Defective or No Stop Lar	mps	2 = Cloudy		2 = Dark, Not Lighted			Three Entering Roads – Y
40	7 = Defective or No Tail Lam $P = Defective or No Tail Lam$	nps	3 = Rain		3 = Dark, Lighted			Four Entering Roads
Ľ,	8 = Defective or No Turn Sig	nal Lamos	4 = Sleet/Hail		4 = Dark, Unknown Lig	hting		Five Entering Roads
1	9 = Defective or No Trailer B	, ,	5 = Snow		5 = Dawn	J		Six Entering Roads
1	10 = Defective or No Vehicle		6 = Fog		6 = Dusk			Fraffic Circle
1	11 = Defective Steering Med		7 = Blowing Sand/S		98 = Other (Explain in I	Narrative)		Cloverleaf
1	12 = Defective or Slick Tires		8 = Severe Crosswi		99 = Unknown	,		Not Applicable
1	13 = Defective Trailer Hitch		98 = Other (Explain					Other (Explain in Narrative)
1	98 = Other (Explain in Narra	tive)	99 = Unknown	···· - /				,
1		,						
1	<u>41. Roadway Type</u>		42. Roadway Align		face Condition	44. Traffic Control		11 = Center Stripe/Divider
1	1 = Two-Way, Not Divided		1 = Straight, Level	1 = Dry		2 = Inoperative (Explai	n in Narrative)	12 = No Passing Zone
1	2 = Two-Way, Divided, Unpr	otected	2 = Straight, Grade	2 = Wet		3 = Officer		13 = RR Gate/Signal
1	Median		3 = Straight, Hillcrest	3 = Stand	ding Water	4 = Flagman		15 = Crosswalk
1	2 Two Way Divided Drots		4 = Curve, Level	4 = Snow		5 = Signal Light		16 = Bike Lane
	3 = Two-Way, Divided, Prote							
1	Median		5 = Curve, Grade	5 = Slush	1	6 = Flashing Red Light		
				5 = Slush 6 = Ice	1			17 = Marked Lanes
	Median 4 = One-Way		5 = Curve, Grade 6 = Curve, Hillcrest	6 = Ice		7 = Flashing Yellow Lig		17 = Marked Lanes 18 = Signal Light With Red Light
	Median	tive)	5 = Curve, Grade	6 = Ice Narrative) 7 = Sand	, Mud, Dirt	7 = Flashing Yellow Lig 8 = Stop Sign		17 = Marked Lanes 18 = Signal Light With Red Light Running Camera
	Median 4 = One-Way	tive)	5 = Curve, Grade 6 = Curve, Hillcrest 98 = Other (Explain in	6 = Ice Narrative) 7 = Sand	, Mud, Dirt er (Explain in Narrative	7 = Flashing Yellow Lig 8 = Stop Sign		17 = Marked Lanes 18 = Signal Light With Red Light



Councilmember & Commission Appointee

Chair		Carmen R. Garcia	Mayor Mike Rawlings				
Vice Cha	air	Tarek Radjef *	City Council				
District 2	District 1 Angela Briles		Scotts Griggs				
District 2	2	VACANT	Adam Medrano				
District	3	Taylor Toynes	Casey Thomas, II*				
District 4	4	VACANT					
District !	5	Jesus A. Rodriguez	Rick Callahan				
District	6	VACANT	Deputy Mayor Pro Tem Monica Alonzo				
District	7	VACANT	Tiffinni A. Young*				
	8 Tiffany M. Kamuche Mayor Pro Tem Erik Wilson*						
District	8	Tiffany M. Kamuche	Mayor Pro Tem Erik Wilson*				
District 8		Tiffany M. Kamuche Ben Davis Sr.	Mayor Pro Tem Erik Wilson* Mark Clayton*				
	9						
District	9 10	Ben Davis Sr.	Mark Clayton*				
District S	9 10 11	Ben Davis Sr. VACANT	Mark Clayton* B. Adam McGough*				
District 2 District 2 District 2	9 10 11 12	Ben Davis Sr. VACANT Glynn Newman	Mark Clayton* B. Adam McGough* Lee. M. Kleinman				
District 2 District 2 District 2 District 2	9 10 11 12 13	Ben Davis Sr. VACANT Glynn Newman Tarek Radjef *	Mark Clayton* B. Adam McGough* Lee. M. Kleinman Sandy Greyson				
District	9 10 11 12 13 14	Ben Davis Sr. VACANT Glynn Newman Tarek Radjef * Wade R. Vache	Mark Clayton* B. Adam McGough* Lee. M. Kleinman Sandy Greyson Jennifer S. Gates				



SafeLight Camera Intersections

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E Dis	trict (Code	Approach	Notes
_				
1		1 502	N Beckley Ave @ W Colorado Blvd	
2		1 702	S Westmoreland @ Illinois	
3		1 303	W Jefferson Blvd @ S Tyler St	
4		<mark>2</mark> 804	E RL Thrornton Serv S @ S Harwood St	
5		<mark>2</mark> 603	Graham @ Lindsley Avenue	
6		<mark>2</mark> 604	Griffin St W @ S St Paul St	
7		<mark>2</mark> 134	Keller Springs Rd WB @ Knoll Trail Dr	
8		<mark>2</mark> 813	S Harwood St @ E RL Thornton Serv N	
9		<mark>2</mark> 801	S Munger Blvd @ Lindsley Ave	
10		<mark>2</mark> 514	W NW Hwy @ Marsh Ln	
11		<mark>3</mark> 243	Camp Wisdon EB @ MD Love	
12		<mark>3</mark> 154	E Ledbetter Dr WB @ Lancaster Rd	
13		<mark>3</mark> 423	E Ledbetter Dr @ S Lancaster Rd	
14		<mark>3</mark> 104	W Camp Wisdom Rd @ S Westmoreland Rd	
15		<mark>4</mark> 273	W Illinois Ave @ RL Thornton Fwy	
16		<mark>5</mark> 411	S Buckner Blvd @ Bruton Rd	
17		<mark>5</mark> 412	S Buckner Blvd SB @ Bruton Rd	
18		<mark>6</mark> 422	Harry Hines Blvd @ N NW Hwy	
19		<mark>6</mark> 931	Inwood Rd NB @ Stemmons Fwy	
20		<mark>6</mark> 932	Inwood Rd SB @ Stemmons Fwy	
21		<mark>6</mark> 612	N Walton Walker Serv W @ W NW Hwy	
22		<mark>6</mark> 414	W Mockingbird Ln @ N Stemmons Serv E	
23		<mark>6</mark> 253	W NW Hwy @ N Walton Walker Blvd	

District	Code	Approach	Notes
	6122	Webb Chapel Rd @ Lombardy Ln	
	7 431	Buckner NB @ Military Pkwy	
	7 511	N Buckner Blvd @ John West Rd	
	8181	Marvin D Love Fwy @ W Camp Wisdom Rd	
	8322	S Hampton Rd @ W Wheatland Rd	
	9623	E Northwest Hwy EB @ Trammel	
	9263	E NW Hwy @ Marsh Ln	
	9203 9602	Ferguson Rd SB @ Gus Thomasson Rd	
	9002 9133	Ferguson Rd EB @ Peavy Rd	
	9913 9913	Garland Rd EB @ N Buckner Blvd	
	9913 9914	Garland Rd WB @ N Buckner Blvd	
	9914 9911	N Buckner Blvd NB @ Garland Rd	
	9233	W Mockingbird Ln @ John Carpenter Fwy	
	10 123	Forest Ln @ Plano Rd	
	10 123 10 124	Forest Ln @ Schroeder Rd	
	10 124 10 103	Forest Ln EB @ Abrams Rd	
	10 103 10 132	Skillman St NB @ LBJ Fwy	
	10 132 10 231	Skillman St SB @ LBJ Fwy	
	11504	Alpha Rd NB @ Dallas Pkwy	
	11401	Coit Rd NB @ Banner Dr	
	11 121	Dallas Pkwy NB @ Keller Springs Rd	
	12 903	Frankford Rd EB @ Preston Rd	
	12903 12234	Frankford Rd WB @ Dallas North Toll Way	
	12 234 12 261	Preston NB @ SBLT at Frankford	
	12 242	Preston SB @ SBLT at Frankford	
	12 242 13 224	Forest Ln WB @ Inwood Rd	
	13/224 13/904	N NW Hwy @ Dallas North Toll Way	Deactivated Feb 2014
	13 213	W NW Hwy @ Dallas North Tollway	Deactivated Feb 2014
	14203	Commerce St EB @ S Central Expy	
	14 214	E Lovers Ln WB @ N Central Expy	
	14 144	E Mockingbird Ln WB @ N Central Serv E	
	14 614	E NW Hwy @ Avenue E	
	14 701	Greenville Ave NB @ E Mockingbird Ln	
	14501	Lemmon Ave NB @ Oak Lawn Ave	
	14 211	N Central Expy NB @ E Lovers Ln	
	14 311	N Central Expy NB @ Lemon Ave	
	14 131	N Central Serv W NW @ E Mockingbird Ln	