

Introduction

This is a presentation given to members of the City of St. Petersburg Traffic Signal Department and members of the Stop On Red Program TEAM.

The purpose of this presentation is to show the data gathered and tools used to analyze the videos available of the short yellow signal examples at red light camera intersection approaches in the City of St. Petersburg.

Scope of the issue

After analyzing the red light camera citations for the first two years of the red light camera program, I found 1973 citations where the yellow time was lower than the city information had said it was supposed to be. Of those, there were 247 citations where the time the vehicle ran the red was less than the amount of time that the yellow light was short by. I requested videos of all 247 of those violations over a month ago, I still have not received them, or any ETA on when I will receive them. I do have videos of two of these violations I had previously requested, so I will go in depth into what the citations and videos show.

Video Analysis

The videos of these violations are certified accurate by the city's vendor, American Traffic Solutions(ATS), and in states where the yellow signal time must be verified on citations, like Georgia, their yellow times must be accurate or the citations will be thrown out. In the videos shown, the yellow time does match the yellow time of the citation.

These violation videos are often used in both the municipal hearings and County Traffic Courts to determine the guilt or innocence of people appealing their citations. They are admitted into evidence as accurate representations of what happened. These 12 second AVI videos are in Microsoft MPEG-4 v3 format at 320x288 pixel resolution and a frame rate of 30.0 frames per second(fps).

The software that I used to do the video analysis is called Forevid, a piece of free and open-source software that was specifically created for the forensic analysis of surveillance videos by law enforcement and the forensic community. <http://www.forevid.org/>

The video analysis method is simple, Forevid allows you to go through a video frame by frame, and you only need to count the frames from the beginning of the yellow signal to the end, then divide the number of frames by 30 to get the number of seconds of the yellow signal time.

Video 1: Andy Lopez 2012-04-13

Location: NB 66TH ST N @ TYRONE BLVD N

Citation Number: 3431200133662
Camera: STP24
Direction: STRAIGHT
Lane: 3
Yellow Time: 4.2
Speed: 44
Red Time: 0.1
Vehicle: 1995 White Ford Van

The first dimly lit yellow frame in the video is frame 24

The last dimly lit yellow frame in the video is frame 149

Total yellow frames: $(149-24 = 125) / 30 \text{ fps} = 4.1667$ seconds of yellow time

This light was supposed to stay yellow for 4.3 seconds, it was 0.1333 seconds too short.



Video 2: PSTA Bus 2013-01-07

Location: EB TYRONE BLVD N @ 66TH ST N

Citation Number: 3431300011107
Camera: STP25
Direction: STRAIGHT
Lane: 3
Yellow Time: 4.2
Speed: 32
Red Time: 0.1
Vehicle: 2009 PINELLAS SUNCOAST TRANSIT AUTHORITY(PSTA) BUS

The first dimly lit yellow frame in the video is frame 11

The last dimly lit yellow frame in the video is frame 138

Total yellow frames: $(138-11) / 30 \text{ fps} = 4.2333$ seconds of yellow time

This light was supposed to stay yellow for 4.3 seconds, it was 0.0667 seconds too short.



Short yellow signal red light camera citations by intersection approach and direction:

LOC_ID	volume	speed	approach	yellow time		short citations		
				Before	After	change	total	refund
STP01	19250	35	NB 34TH ST N @ 1ST AVE N	4.0	4.0	0	0	0
			left turn	4.0	4.0	0	0	0
STP04	20250	40	SB 34TH ST N @ 38TH AVE N	4.0	4.4	0.4	1	0
			left turn	4.0	4.4	0.4	3	1
STP05	13896	40	EB 38TH AVE N @ 34TH ST N	4.0	4.4	0.4	0	0
			left turn	4.0	4.4	0.4	3	1
STP06	13896	40	WB 38TH AVE N @ 34TH ST N	4.0	4.4	0.4	0	0
			left turn	4.0	4.4	0.4	22	2
STP07	17000	40	NB 4TH ST N @ GANDY BLVD N	4.5	4.5	0	4	0
			left turn	4.5	4.5	0	1	0
STP08	21850	45	EB GANDY BLVD N @ 4TH ST N	4.5	4.8	0.3	0	0
			left turn	4.5	4.8	0.3	0	0
STP26	11500	40	SB 4TH ST N @ GANDY BLVD N	4.5	4.5	0	48	2
			left turn	4.5	4.5	0	0	0
STP12	19250	35	SB 34TH ST S @ 1ST AVE S	4.0	4.0	0	3	0
			left turn	4.0	4.0	0	0	0
STP13	10304	40	EB 1ST AVE S @ 34TH ST S	4.0	4.4	0.4	0	0
STP14	12427	35	EB 22ND AVE N @ 4TH ST N	4.0	4.0	0	0	0
			left turn	4.0	4.0	0	0	0
STP15	14500	35	NB 4TH ST N @ 22ND AVE N	4.0	4.0	0	0	0
			left turn	4.0	4.0	0	0	0
STP16	14500	40	SB 4TH ST N @ 22ND AVE N	4.0	4.0	0	0	0
			left turn	4.0	4.0	0	0	0
STP17	20750	45	NB 66TH ST N @ 22ND AVE N	4.3	4.8	0.5	19	4
			left turn	4.3	4.8	0.5	0	0
STP18	22250	45	SB 66TH ST N @ 22ND AVE N	4.3	4.8	0.5	110	15
			left turn	4.0	4.8	0.8	0	0
STP19	13500	40	SB 34 ST S @ 22ND AVE S	4.3	4.8	0.5	87	24
			left turn	4.0	4.8	0.8	12	1
STP27	13500	40	NB 34TH ST S @ 22ND AVE S	4.3	4.8	0.5	226	41
			left turn	4.0	4.8	0.8	79	10
STP20	16750	45	NB 4TH ST N @ 54TH AVE N	4.3	4.8	0.5	1	0
			left turn	4.0	4.8	0.8	0	0
STP21	16750	45	SB 4TH ST N @ 54TH AVE N	4.3	4.8	0.5	1	0
			left turn	4.0	4.8	0.8	0	0
STP22	22250	45	SB 66TH ST N @ 38TH AVE N	5.0	4.8	-0.2	9	7
			left turn	4.0	4.8	0.8	117	6
STP23	10713	40	EB 38TH AVE N @ 66TH ST N	5.0	4.4	-0.6	343	8
			left turn	4.0	4.4	0.4	2	1
STP24	20750	45	NB 66TH ST N @ TYRONE BLVD N	4.3	4.8	0.5	122	22
			left turn	4.0	4.8	0.8	330	43
STP25	15000	45	EB TYRONE BLVD N @ 66TH ST N	4.3	4.8	0.5	314	49
			left turn	4.0	4.8	0.8	116	10
							1973	247

Short yellow citations that would not have happened if the yellow light had been proper length:

Doc_number	date	yellow	red	type	camera	location	name		
3431100003049	2011-10-31	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	WENDY		PETERSON
3431100004286	2011-11-01	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	ROBERT JOSEPH	FARMIN	
3431100006661	2011-11-03	3.9	0.1	LEFT TURN	STP22	SB 66TH ST N @ 38TH AVE N	JOANNA LAUREN	MILLER	
3431100006729	2011-11-03	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	GORGETTE WAHIB	DOZE	
3431100006745	2011-11-03	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	BRENDA KAY	LESHAW	
3431100007560	2011-11-04	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	HAROLD EUGENE	ANDERSON	
3431100007933	2011-11-04	4.2	0.1	STRAIGHT	STP18	SB 66TH ST N @ 22ND AVE N	EAN HOLDINGS LLC		
3431100009012	2011-11-05	3.9	0.1	LEFT TURN	STP27	NB 34TH ST S @ 22ND AVE S	GLORIA JEAN	JAMES	
3431100009616	2011-11-05	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	SALVATORE JOHN	MODICA	
3431100011422	2011-11-07	4.2	0.1	STRAIGHT	STP17	NB 66TH ST N @ 22ND AVE N	BEST BUY RENTAL CARS		
3431100013691	2011-11-09	4.0	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	DWAYNE EDWARD	HERBERT	
3431100014566	2011-11-10	3.9	0.1	STRAIGHT	STP22	SB 66TH ST N @ 38TH AVE N	ROBERT JUDE	SHANNON	
3431100014707	2011-11-10	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	FRANKLIN JEROME	EVANS	
3431100024565	2011-11-10	4.0	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	CHRISTOPHER	PHILIP	WICKS
3431100017098	2011-11-12	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	NGA THU	DUONG	
3431100019946	2011-11-15	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	MARGARET K	MUGHARBEL	
3431100020795	2011-11-16	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	ANNETTE MARIE	PATTERSON	
3431100021108	2011-11-16	4.1	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	PATRICIA DANESE	CLAY	
3431100021405	2011-11-16	3.9	0.2	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	ANDRE LAVELLE	GATEWOOD	
3431100022841	2011-11-18	3.9	0.1	LEFT TURN	STP27	NB 34TH ST S @ 22ND AVE S	DESIREE GENEVA	WALTON	
3431100029515	2011-11-23	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	PATRICIA A	KONEN	
3431100031826	2011-11-25	4.4	0.1	STRAIGHT	STP26	SB 4TH ST N @ GANDY BLVD N	ALEXIS FARID	OMID	
3431100032550	2011-11-26	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	DEVIN M	SANDERSON	
3431100044563	2011-12-06	3.8	0.2	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	HALLIE NICOLE	DUNLAP	
3431100048333	2011-12-08	4.9	0.1	RIGHTTURN	STP23	EB 38TH AVE N @ 66TH ST N	CARLOTA E	PENA	
3431100049513	2011-12-09	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	JUAN CARLOS	MAGNELLI	
3431100053556	2011-12-12	3.9	0.2	STRAIGHT	STP22	SB 66TH ST N @ 38TH AVE N	KEITH A	KULYK	
3431100053739	2011-12-12	4.1	0.6	STRAIGHT	STP23	EB 38TH AVE N @ 66TH ST N	ANN MARIE	CARSON	
3431100061567	2011-12-16	4.2	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	LYNN F	GIROLAMO	
3431200003550	2011-12-22	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	THOMAS ARTHUR	DEMPSY	
3431200006777	2011-12-22	3.9	0.1	LEFT TURN	STP22	SB 66TH ST N @ 38TH AVE N	KRYSTLE NICOLE	BUTLER	
3431200005209	2011-12-23	4.2	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S D RAY		LOFLIN	
3431200007031	2011-12-25	3.9	0.1	LEFT TURN	STP22	SB 66TH ST N @ 38TH AVE N	DARLENE REISES	ALLEN	
3431200007601	2011-12-25	4.2	0.1	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	LUCI A	GLASNER	
3431200008385	2011-12-26	3.9	0.1	LEFT TURN	STP25	EB TYRONE BLVD N @ 66TH ST N	LEE MICHAEL	HANNA	
3431200017675	2012-01-04	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	VANESSA MANALO	QUILLAO	
3431200018905	2012-01-05	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	MICHAEL STEVEN	MELCHER	
3431200022980	2012-01-08	4.0	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	WILLIAM ATLEE	ROBINSON	
3431200030470	2012-01-14	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	TAMMIE	JONES	
3431200030710	2012-01-15	4.0	0.3	RIGHTTURN	STP23	EB 38TH AVE N @ 66TH ST N	CRYSTAL MAE	PALKO	
3431200040388	2012-01-24	4.2	0.1	STRAIGHT	STP18	SB 66TH ST N @ 22ND AVE N	KARI DANIELLE	PENTAUDI	
3431200041550	2012-01-25	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	RICHARD FREDERICK	WARTEWIG	
3431200042145	2012-01-25	3.9	0.1	LEFT TURN	STP27	NB 34TH ST S @ 22ND AVE S	CHERYL A	ORR	
3431200044208	2012-01-27	4.2	0.1	RIGHTTURN	STP18	SB 66TH ST N @ 22ND AVE N	STACY L	FLANIGAN	
3431200049009	2012-02-01	3.9	0.1	LEFT TURN	STP25	EB TYRONE BLVD N @ 66TH ST N	THOMAS J	CAMPBELL	
3431200053746	2012-02-05	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	E JEAN	KELLY	
3431200055824	2012-02-07	4.2	0.1	STRAIGHT	STP18	SB 66TH ST N @ 22ND AVE N	PAULA RENE	EVANS	
3431200059719	2012-02-10	4.2	0.1	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	THOMAS ARTHUR	GUNTON	
3431200063844	2012-02-14	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	ROGER	TONEY	
3431200064388	2012-02-14	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	CLAUDETTE MARSHALL	MARRS	
3431200069767	2012-02-19	4.2	0.1	RIGHTTURN	STP18	SB 66TH ST N @ 22ND AVE N	MARYNA V	GEHRSTZ	
3431200070443	2012-02-20	4.0	0.1	STRAIGHT	STP23	EB 38TH AVE N @ 66TH ST N	JOSEPH G	BOLEK	
3431200075376	2012-02-24	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	JILL LESLEY	HARTEIS	
3431200075426	2012-02-24	4.2	0.1	RIGHTTURN	STP18	SB 66TH ST N @ 22ND AVE N	JOSEPH	CIRILLO	
3431200078040	2012-02-26	3.9	0.1	LEFT TURN	STP27	NB 34TH ST S @ 22ND AVE S	CARMEN DAVIDA	CASH	
3431200078214	2012-02-26	4.2	0.1	RIGHTTURN	STP18	SB 66TH ST N @ 22ND AVE N	KARIMA	HILL	
3431200078842	2012-02-27	4.2	0.1	STRAIGHT	STP18	SB 66TH ST N @ 22ND AVE N	DAVID TERRELL	THOMPSON	
3431200080087	2012-02-28	4.1	0.2	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	AGATHA	ANNINO	
3431200083321	2012-03-01	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	NICOLE YORK	KRETSCHMER	
3431200094898	2012-03-10	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	JUSTIN PATRICK	FERGUSON	
3431200096711	2012-03-12	4.1	0.2	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S JAMILLAH	RECHE NICHOLS		
3431200096828	2012-03-12	3.9	0.4	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	JAVIER	GUTIERREZ	
3431200096836	2012-03-12	3.9	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	NICHOLAS J	DEMARCO	
3431200098733	2012-03-14	4.9	0.1	STRAIGHT	STP22	SB 66TH ST N @ 38TH AVE N	OLGA	COLANTRELLO	
3431200111445	2012-03-26	4.9	0.1	RIGHTTURN	STP23	EB 38TH AVE N @ 66TH ST N	JAMES	LOUIS	
3431200112591	2012-03-27	3.9	0.1	LEFT TURN	STP27	NB 34TH ST S @ 22ND AVE S	LORENZA R	CORNELIUS	BARTLEY
3431200115933	2012-03-30	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	SHENITA R	HOLMES-CRAPPS	
3431200118275	2012-04-01	3.8	0.2	LEFT TURN	STP27	NB 34TH ST S @ 22ND AVE S	JAMES W	LISTON	
3431200120750	2012-04-03	4.2	0.1	RIGHTTURN	STP17	NB 66TH ST N @ 22ND AVE N	DAVID JOHN	MERKLE	
3431200131492	2012-04-11	4.9	0.1	STRAIGHT	STP22	SB 66TH ST N @ 38TH AVE N	MARY ELLEN	SHEA	
3431200131823	2012-04-11	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	SYDNEY BRONWYN	HEINO	
3431200133662	2012-04-13	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	ANDY	LOPEZ	
3431200136335	2012-04-15	3.9	0.1	LEFT TURN	STP27	NB 34TH ST S @ 22ND AVE S	SALLY LINDA	TERKANIAN	
3431200140618	2012-04-20	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	CLOSSON ANN	GLAUSIER	
3431200142531	2012-04-22	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	RICHARD	BARRACATO	
3431200147738	2012-04-27	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	LARRY	MAUGHMER	
3431200150351	2012-04-30	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	KATHLEEN R	MEACCI	
3431200152399	2012-05-02	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	MARY	PARKER-BLACK	
3431200156291	2012-05-05	3.8	0.2	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	EUGENE STEPHEN	O'DOR	
3431200156952	2012-05-05	4.0	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	LAKEIDRA DENISE	HARVEY	
3431200158107	2012-05-07	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	SABRINA ANN BUR	SCHULTZ	
3431200159113	2012-05-08	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	ROBERTA ELAINE	RUTHERFORD	
3431200160582	2012-05-10	4.1	0.2	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	YUBIN	PAN	
3431200162034	2012-05-11	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	YURIAN H	FALLS	
3431200164329	2012-05-13	4.2	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	JENNIFER LYNN	ATKINS	
3431200165458	2012-05-14	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	ROBERT PERRY	ALLISON	
3431200167413	2012-05-17	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	SHAWNTIA QUNANCE	BRADLEY	
3431200176752	2012-05-27	3.9	0.1	LEFT TURN	STP27	NB 34TH ST S @ 22ND AVE S	CARMEN LIBRADA	TRADDO	
3431200180200	2012-05-31	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	YVONNE P	PHAM	
3431200185142	2012-06-06	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	NDP LLC		
3431200190076	2012-06-12	4.2	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	CONNIE CAROL	BAYLOR	
3431200190084	2012-06-12	4.2	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	PAUL CHRISTI	OLSEN	
3431200195356	2012-06-18	3.9	0.1	LEFT TURN	STP06	WB 38TH AVE N @ 34TH ST N	PV HOLDING CORP		

3431200195778	2012-06-18	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	LUCILLE	ANNA	MORRIS
3431200197105	2012-06-20	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	SCOTT	FLOYD	FRIEDMAN
3431200197162	2012-06-20	3.8	0.2	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	EDWARD		FRACZEK
3431200197303	2012-06-20	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	DIARA	DIATA A	YALOR
3431200197477	2012-06-20	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	MICHELLE	NICOLE	BUCKNER
3431200199143	2012-06-22	3.9	0.1	LEFT TURN	STP25	EB TYRONE BLVD N @ 66TH ST N	TAWFIQ		ALMALKI
3431200199622	2012-06-22	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	LORI	PARKES	LENAS
3431200199812	2012-06-23	3.9	0.1	LEFT TURN	STP25	EB TYRONE BLVD N @ 66TH ST N	DONNA	RENATA	WILLIAMS
3431200201097	2012-06-25	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	SYDNEY	MARY	VELA
3431200205874	2012-07-01	3.9	0.1	LEFT TURN	STP27	NB 34TH ST S @ 22ND AVE S	RONALD	HENRY	MOREL
3431200209116	2012-07-04	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	BROCK	WILLIAM	HASSICK
3431200209546	2012-07-05	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	KAREN	MARIA	FORTIER
3431200210817	2012-07-06	4.2	0.1	RIGHTTURN	STP18	SB 66TH ST N @ 22ND AVE N	JAMES	JASON	JERNEGAN
3431200213282	2012-07-09	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	RICHARD	ALAN	KIEP
3431200216350	2012-07-13	4.2	0.1	RIGHTTURN	STP18	SB 66TH ST N @ 22ND AVE N	SADIE	W	CAMON
3431200221111	2012-07-19	4.2	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	CINDY	D	AKERS
3431200221764	2012-07-20	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	PATRICIA	FRANCES	RAYNOR
3431200222754	2012-07-21	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	DAWN	LEE SHA	BRYANT GORDON
3431200225930	2012-07-25	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	MINETTE	GAPUD	TAPIA
3431200226383	2012-07-25	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	GAIL	A	HARRMAN
3431200228405	2012-07-27	3.9	0.1	LEFT TURN	STP25	EB TYRONE BLVD N @ 66TH ST N	JTS ENTERPRISES OF TAMPA LTD		
3431200233058	2012-08-03	3.9	0.1	LEFT TURN	STP06	WB 38TH AVE N @ 34TH ST N	KATHLEEN	WEBSTER	SPANN
3431200236754	2012-08-08	4.2	0.1	STRAIGHT	STP17	NB 66TH ST N @ 22ND AVE N	BARON	Z	GLOVER
3431200237034	2012-08-08	3.9	0.1	LEFT TURN	STP22	SB 66TH ST N @ 38TH AVE N	WAYNE	SPENCER	GOODMAN
3431200237877	2012-08-10	4.9	0.1	STRAIGHT	STP23	EB 38TH AVE N @ 66TH ST N	DIMITRI		TAGAROPOULOS
3431200238974	2012-08-12	3.9	0.1	LEFT TURN	STP25	EB TYRONE BLVD N @ 66TH ST N	AMY	JO	HEERS
3431200239907	2012-08-14	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	TYSON	D	ROLLINS
3431200245904	2012-08-22	3.9	0.1	LEFT TURN	STP25	EB TYRONE BLVD N @ 66TH ST N	ELVIS	WAYNE	WATSON
3431200247066	2012-08-23	3.9	0.2	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	PATTY	LEE	MEW
3431200248726	2012-08-25	3.9	0.5	STRAIGHT	STP22	SB 66TH ST N @ 38TH AVE N	TUAN	QUOC	NGUYEN
3431200249591	2012-08-27	4.0	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	EMIL		SEGARRA
3431200249732	2012-08-27	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	DANIEL	WAYNE	MOHR
3431200250508	2012-08-29	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	BRUCE	EDWARD	BEATTY
3431200253197	2012-09-01	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	BRIAN	KEITH	HARVEY
3431200254534	2012-09-04	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	CANDACE	ADAMS	GRAY
3431200255309	2012-09-05	3.9	0.1	LEFT TURN	STP19	SB 34 ST S @ 22ND AVE S ANITREA	MICHELL	KELLEY	
3431200262412	2012-09-14	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	FLORIDA AUTO AUCTION OF ORLANDO		
3431200262453	2012-09-14	4.2	0.1	STRAIGHT	STP17	NB 66TH ST N @ 22ND AVE N	JAMES	K	HOLLINGSWORTH
3431200264244	2012-09-17	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	FREDDIE	J	ALLEN
3431200266744	2012-09-21	4.2	0.1	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	DORCA	N	MAY
3431200268567	2012-09-24	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	TIM	PATRICK	LUSIGNAN
3431200269466	2012-09-25	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	DANIEL	ANDREW	MONDELLO
3431200273005	2012-09-30	4.1	0.2	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	ROBERT	BRUCE	KRAEMER
3431200274086	2012-10-01	4.4	0.1	RIGHTTURN	STP26	SB 4TH ST N @ GANDY BLVD N	ROSILYN	ILENE	SIGAL
3431200274268	2012-10-02	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	SARAH	NICHOLE	CLINE
3431200275307	2012-10-03	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	HEIDI	MARIE	REDMAN
3431200276180	2012-10-04	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	CYNTHIA	CREGAN	NIELD
3431200281180	2012-10-08	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	GLAXOSMITHKLINE		
3431200282154	2012-10-12	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	JOHN	MICHAEL	DOTZLER
3431200283962	2012-10-14	4.2	0.1	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	ANTHONY	CHARLES	WILLIAMS
3431200285116	2012-10-15	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	ROBERT		HARRIS
3431200285751	2012-10-16	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	CARL	R	HAGEN
3431200286858	2012-10-17	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	ELIZABETH	JEAN	SCOTT
3431200296527	2012-10-31	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	KELLY	DREW	DAVIS
3431200298044	2012-11-02	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	ELIZABETH	ARIDFF	FEHR
3431200298929	2012-11-03	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	MARY	ELISABE	PARKER
3431200300345	2012-11-05	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	JOHN	CHARLES	O'DOM
3431200307266	2012-11-15	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	RALPH	LEE	ROGERS
3431200307456	2012-11-15	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	WALTER	SEAL	FLYNT
3431200307498	2012-11-15	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	THOMAS		KHAMPHANH
3431200309551	2012-11-17	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	DARLENE	NESBITT	HILL
3431200311862	2012-11-20	4.9	0.1	RIGHTTURN	STP23	EB 38TH AVE N @ 66TH ST N	JOSE		NARANJO
3431200314494	2012-11-23	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	PHILIP	R	MURPHY
3431200316606	2012-11-26	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	KIMBERLY	A	SPEARS
3431200317190	2012-11-27	3.9	0.1	LEFT TURN	STP04	SB 34TH ST S @ 38TH AVE N	ERIKA	C	SEEMANGAL SINGH
3431200321044	2012-12-02	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	NOLA HOWES		
3431200321689	2012-12-03	3.9	0.1	LEFT TURN	STP22	SB 66TH ST N @ 38TH AVE N	RANDY CRANE		
3431200324212	2012-12-06	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	LAWRENCE JOHNSON		
3431200326829	2012-12-08	4.2	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S KEVIN HARTZOG			
3431200327272	2012-12-09	4.2	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	RICARDO MOREY		
3431200330342	2012-12-13	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	ROBERT HIGGINS		
3431200333650	2012-12-17	3.9	0.1	LEFT TURN	STP22	SB 66TH ST N @ 38TH AVE N	CANDACE BAKER		
3431200334021	2012-12-18	4.0	0.3	STRAIGHT	STP22	SB 66TH ST N @ 38TH AVE N	CELENA WALTON		
3431200335994	2012-12-20	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	THE HERTZ CORPORATION		
3431200337131	2012-12-21	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	ASHLEY COLEY		
3431200337198	2012-12-21	3.9	0.1	LEFT TURN	STP25	EB TYRONE BLVD N @ 66TH ST N	HELENE LAFLEUR		
3431200338253	2012-12-22	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	BRITANY JOHNSON		
3431200340259	2012-12-24	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	REBECCA QUARLES		
3431200340481	2012-12-24	4.2	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S RONALD DELALLY			
3431300002668	2012-12-28	4.2	0.1	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	LIZANNETTE IRIZARRY		
3431300004169	2012-12-30	4.2	0.1	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	KENNETH KUZMITSKI		
3431300004334	2012-12-30	3.9	0.1	LEFT TURN	STP25	EB TYRONE BLVD N @ 66TH ST N	LIZ FOSTER		
3431300005901	2013-01-02	4.2	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S KIM LUDWIG			
3431300009804	2013-01-07	4.0	0.2	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	NORMAN SCHAIBLE		
3431300010042	2013-01-07	4.2	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S FRAZIER POLLARD			
3431300011107	2013-01-07	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	PINELLAS SUNCOAST TRANSIT AUTHORITY		
3431300011149	2013-01-08	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	MELISSA POWELL		
3431300014499	2013-01-13	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	STEVEN HILLMON		
3431300015678	2013-01-15	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	BALDFORD BERRY		
3431300024068	2013-01-26	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	ROSS JOBSON		
3431300027475	2013-01-31	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	JOSEPH STEFANSKI		
3431300028077	2013-02-01	4.2	0.1	STRAIGHT	STP25	EB TYRONE BLVD N @ 66TH ST N	DAVID MOSHER		
3431300029125	2013-02-02	4.2	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S WAYNE BOUDREAU			
3431300029802	2013-02-03	4.2	0.1	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	KATHRYN SWEATT		
3431300030792	2013-02-04	4.2	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	VALERIE JOHNSON		
3431300031923	2013-02-06	4.2	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	STEPHEN KEENE		
3431300033986	2013-02-08	3.9	0.1	LEFT TURN	STP25	EB TYRONE BLVD N @ 66TH ST N	JOHN KING		
3431300035312	2013-02-10	3.9	0.1	LEFT TURN	STP24	NB 66TH ST N @ TYRONE BLVD N	RYAN ALEXANDER		

3431300060666	2013-03-13	3.9	0.1	LEFT TURN	STP05	EB 38TH AVE N @ 34TH ST N	UNITED STATES JEFFRIES
3431300097064	2013-04-29	4.2	0.1	STRAIGHT	STP18	SB 66TH ST N @ 22ND AVE N	COREY WHITE
3431300117474	2013-05-25	4.0	0.2	STRAIGHT	STP18	SB 66TH ST N @ 22ND AVE N	CLIFTON SCOTT
3431300119611	2013-05-28	4.0	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	BARRY YUILLE
3431300119991	2013-05-28	4.0	0.3	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	TAIESHA POTTER
3431300120510	2013-05-29	4.0	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	CLAYTON JOHNSON
3431300120668	2013-05-29	4.0	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	DORMA-CAROLINA DOOR CONTROLS INC
3431300121245	2013-05-30	4.0	0.2	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	VERONICA WOOTON
3431300121336	2013-05-30	4.0	0.2	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	MARKUS TOMINUS
3431300121419	2013-05-30	4.0	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	PATRICIA SEVERN
3431300121476	2013-05-31	4.0	0.2	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	RICHARD VAN ALSTYNE
3431300121518	2013-05-30	4.0	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	NANCY HERZINGER
3431300121583	2013-05-30	4.0	0.3	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	BETTY SMITH
3431300121971	2013-05-30	4.0	0.3	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	AMANDA DRAKE
3431300121922	2013-05-31	4.1	0.2	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	DAN WITCHARD
3431300122110	2013-05-31	4.0	0.3	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	TIFFANY WEBB
3431300122987	2013-05-31	4.0	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	PV HOLDING CORP
3431300123084	2013-06-01	4.0	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	VIRGINIA LEWIS
3431300123449	2013-06-01	4.0	0.3	RIGHTTURN	STP25	EB TYRONE BLVD N @ 66TH ST N	STEPHEN WEIDNER
3431300123670	2013-06-01	4.0	0.1	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	LARRY SHANKS
3431300123738	2013-06-01	4.0	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	MAE WALTERS
3431300125352	2013-06-04	4.0	0.1	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	VANESSA RECKLEY
3431300125428	2013-06-04	4.0	0.3	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	ALFONSO ROGERS
3431300125477	2013-06-04	4.1	0.2	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	REGINALD FOWLER
3431300125881	2013-06-04	4.0	0.1	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	KESHA BRITT
3431300126194	2013-06-05	4.0	0.2	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	JAIME OCHOA SANCHEZ
3431300126368	2013-06-05	4.0	0.3	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	ABRAHAM AWWAD
3431300126533	2013-06-05	4.0	0.3	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	WILLIAM STICKLES
3431300126814	2013-06-05	4.0	0.2	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	CLEBERTE SERAPHIN
3431300126970	2013-06-06	4.0	0.3	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	LAVERNE BENNETT
3431300127051	2013-06-06	4.0	0.3	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	PERCY JASPER
3431300127507	2013-06-07	4.0	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	CEDRICKA DANIELS
3431300127622	2013-06-07	4.0	0.3	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	PRO CARP INC
3431300127655	2013-06-07	4.0	0.2	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	STEPHEN GREEN
3431300128224	2013-06-07	4.0	0.1	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	DAVID SCHIPUL
3431300128281	2013-06-07	4.0	0.2	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	RICHARD SISENSTEIN
3431300128463	2013-06-08	4.0	0.1	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	DEAN COX
3431300128950	2013-06-08	4.0	0.2	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	JUSTIN SUMMER
3431300129099	2013-06-08	4.0	0.1	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	LOI NGUYEN
3431300129271	2013-06-09	4.0	0.3	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	DAVID PHANEUF
3431300129552	2013-06-09	4.0	0.2	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	PHILIP HARLOFF
3431300129560	2013-06-09	4.0	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	CHARLES ZOPFI
3431300129586	2013-06-09	4.0	0.1	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	ALFRED RAEFORD
3431300129610	2013-06-09	4.0	0.2	STRAIGHT	STP27	NB 34TH ST S @ 22ND AVE S	RENEE DICK
3431300129628	2013-06-09	4.0	0.3	STRAIGHT	STP19	SB 34 ST S @ 22ND AVE S	WALTER GIST
3431300129982	2013-06-10	4.0	0.3	RIGHTTURN	STP27	NB 34TH ST S @ 22ND AVE S	ANGELA STRAHAN
3431300134529	2013-06-16	4.1	0.5	STRAIGHT	STP23	EB 38TH AVE N @ 66TH ST N	WILFREDO PICADIZO
3431300138629	2013-06-22	4.0	0.2	RIGHTTURN	STP24	NB 66TH ST N @ TYRONE BLVD N	PV HOLDING CORP
3431300142365	2013-06-28	3.9	0.1	LEFT TURN	STP27	NB 34TH ST S @ 22ND AVE S	TAMMY MOORE
3431300147307	2013-07-06	4.2	0.1	STRAIGHT	STP18	SB 66TH ST N @ 22ND AVE N	THEODORE VAN BEMMEL
3431300150061	2013-07-11	4.0	0.3	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	WILLIAMSON DIAMOND & CATON PA
3431300165788	2013-08-04	4.2	0.1	RIGHTTURN	STP18	SB 66TH ST N @ 22ND AVE N	LARISSA MILLER
3431300170937	2013-08-12	4.0	0.2	STRAIGHT	STP24	NB 66TH ST N @ TYRONE BLVD N	PATTI TYNER
3431300180100	2013-08-24	4.2	0.1	STRAIGHT	STP18	SB 66TH ST N @ 22ND AVE N	GREGORY TOTH
3431300185372	2013-09-02	4.0	0.7	STRAIGHT	STP22	SB 66TH ST N @ 38TH AVE N	LAZARO ROCHA INTERIAN
3431300203795	2013-10-04	4.1	0.2	LEFT TURN	STP23	EB 38TH AVE N @ 66TH ST N	TYLER HOYER

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