

## APPENDIX D

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LPA: **Sycamore Township** Studied: **2008** from/to **2010** Date: **####**  
 Project Number: **1102-001** Crash Location: **Kenwood Road between Montgomery & Euclid**  
 Non-Freeway Urban  Rural   Segment Length (mi): **0.5**  
 ADT: **26000** Truck %: **2%**

2008																			
Report Number	Date	Total Number of Vehicles	Total Number of Injuries	Crash Type	Injuries	Direction (At Fault)		Direction (Not At Fault)		Light Conditions	Road Conditions	Weather	Alcohol/Drug Suspected	Pre-Crash Actions (At-Fault)	Contributing Circumstances (At-Fault)	Driver Age			
						From	To	From	To							Unit 1	Unit 2	Unit 3	Unit 4
08-296	1/15/2008	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	01 Straight Ahead	11 Improper Start from Parked Position				
08-994	2/14/2008	2	0	Rear End	1 None	3 East	4 West	3 East	4 West	1 Daylight	01 Dry	02 Cloudy	1 None	11 Slowing/Stopped	08 Followed Too Closely				
08-2051	4/3/2008	3	0	Rear End	2-4 Injury	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	1 None	01 Straight Ahead	08 Followed Too Closely				
08-1184	2/24/2008	2	0	Angle	2-4 Injury	2 South	1 North	3 East	4 West	1 Daylight	01 Dry	02 Cloudy	1 None	01 Straight Ahead	22 Unknown (M)				
08-2584	5/13/2008	2	0	Rear End	2-4 Injury	1 North	2 South	1 North	2 South	1 Daylight	01 Dry	01 Clear	1 None	01 Straight Ahead	08 Followed Too Closely				
08-1851	3/22/2008	2	0	Right Turn	1 None	2 South	1 North			1 Daylight	01 Dry	02 Cloudy	1 None	01 Straight Ahead	22 Unknown (M)				
08-3790	6/24/2008	2	0	Backing	1 None	3 East	1 North	1 North	3 East	1 Daylight	01 Dry	01 Clear	1 None	02 Backing	10 Improper Backing				
08-3805	6/26/2008	2	0	Left Turn	1 None	4 West	1 North	1 North	2 South	1 Daylight	01 Dry	01 Clear	1 None	06 Turning Left	02 Failure to Yield				
08-4192	7/15/2008	2	0	eswipe Passi	1 None	3 East	1 North	3 East	3 East	1 Daylight	01 Dry	01 Clear	1 None	01 Straight Ahead	05 Unsafe Speed				
08-4521	8/1/2008	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	01 Straight Ahead	23 None (N-M)				
08-4994	8/27/2008	2	0	Rear End	1 None	2 South	4 West	1 North	2 South	1 Daylight	02 Wet	04 Rain	1 None	09 Leaving Lane	08 Followed Too Closely				
08-5045	8/29/2008	2	0	Left Turn	1 None	4 West	1 North	1 North	2 South	1 Daylight	01 Dry	01 Clear	1 None	06 Turning Left	02 Failure to Yield				
08-5132	9/3/2008	2	0	eswipe Passi	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	03 Changing Lanes	09 Improper Lane Change/Passing/Off Road				
08-5431	9/17/2008	2	0	Backing	2-4 Injury	3 East	4 West	2 South	1 North	4-6 Dark	01 Dry	01 Clear	1 None	02 Backing	02 Failure to Yield				
08-5666	9/27/2008	2	0	Rear End	1 None	1 North	2 South	1 North	2 South	1 Daylight	01 Dry	01 Clear	1 None	01 Straight Ahead	08 Followed Too Closely				
08-5854	10/8/2008	2	0	Left Turn	1 None	2 South	1 North	3 East	2 South	1 Daylight	02 Wet	04 Rain	1 None	01 Straight Ahead	06 Improper Turn				
08-7315	12/8/2008	2	0	Left Turn	1 None	1 North	3 East	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	1 None	06 Turning Left	02 Failure to Yield				
08-7262	11/23/2008	2	0	Left Turn	1 None	4 West	3 East	3 East	1 North	1 Daylight	01 Dry	01 Clear	1 None	01 Straight Ahead	06 Improper Turn				
2180	4/12/2008	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	1 None	11 Slowing/Stopped	08 Followed Too Closely				
3733	6/21/2008	2	0	eswipe Passi	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	1 None	06 Turning Left	02 Failure to Yield				
6389	10/30/2008	2	0	Rear End	2-4 Injury	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	11 Slowing/Stopped	08 Followed Too Closely				

Years Studied: 2008 from/to 2010 Date: #####

LPA: Sycamore Township Location: Kenwood Road between Montgomery & Euclid

Project Number: 11102-001 ADT: 26000 Truck %: 2% seg Length: 0.5

2009																			
Report Number	Date	Total Number of Vehicles	Total Number of	Crash Type	Injuries	Direction (At Fault)		Direction (Not At Fault)		Light Conditions	Road Conditions	Weather	Alcohol/Drug Suspected	Pre-Crash Actions (At-Fault)	Contributing Circumstances (At-Fault)	Driver Age			
						From	To	From	To							Unit 1	Unit 2	Unit 3	Unit 4
09-647	2/1/2009	2	0	Angle	1 None			3 East	1 North	1 Daylight	01 Dry	02 Cloudy	1 None	05 Turning Right	09 Improper Lane Change/Passing/Off Road				
09-1265	3/6/2009	2	0	Left Turn	1 None	2 South	1 North	3 East	4 West	3 Dusk	01 Dry	02 Cloudy	6 Unknown	08 Entering Lane	02 Failure to Yield				
09-1711	3/31/2009	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	1 None	11 Slowing/Stopped	08 Followed Too Closely				
09-1860	4/9/2009	2	0	eswipe Passi	1 None	1 North	2 South	4 West	3 East	1 Daylight	01 Dry	01 Clear	1 None	01 Straight Ahead	02 Failure to Yield				
09-2260	4/30/2009	2	0	Left Turn	1 None	2 South	1 North	3 East	2 South	1 Daylight	01 Dry	02 Cloudy	1 None	06 Turning Left	02 Failure to Yield				
09-2564	5/12/2009	2	0	Left Turn	2-4 Injury	1 North	2 South	4 West	1 North	1 Daylight	01 Dry	01 Clear	1 None	08 Entering Lane	03 Ran Red Light, or Stop Sign				
09-2860	5/27/2009	2	0	eswipe Passi	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	03 Changing Lanes	09 Improper Lane Change/Passing/Off Road				
09-3033	6/3/2009	2	0	eswipe Passi	1 None	3 East	4 West	3 East	4 West	1 Daylight	01 Dry	02 Cloudy	1 None	03 Changing Lanes	09 Improper Lane Change/Passing/Off Road				
09-3165	6/10/2009	2	0	eswipe Passi	1 None	2 South	1 North	2 South	1 North	1 Daylight	02 Wet	04 Rain	1 None	01 Straight Ahead	15 Failure to Control				
09-3765	7/7/2009	2	0	eswipe Passi	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	03 Changing Lanes	09 Improper Lane Change/Passing/Off Road				
09-4179	7/30/2009	3	0	Rear End	1 None	1 North	2 South	1 North	2 South	1 Daylight	01 Dry	02 Cloudy	1 None	01 Straight Ahead	08 Followed Too Closely				
09-3918	7/18/2009	2	0	Left Turn	1 None	1 North	2 South	4 West	1 North	1 Daylight	01 Dry	02 Cloudy	1 None	08 Entering Lane	02 Failure to Yield				
09-4041	7/23/2009	2	0	Left Turn	1 None	4 West	1 North			1 Daylight	01 Dry	02 Cloudy	1 None	09 Leaving Lane	02 Failure to Yield				
09-4303	8/4/2009	2	0	Left Turn	1 None	1 North	2 South	2 South	1 North	1 Daylight	02 Wet	04 Rain	1 None	06 Turning Left	03 Ran Red Light, or Stop Sign				
09-4520	8/17/2009	2	0	Backing	1 None	1 North	2 South	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	1 None	02 Backing	10 Improper Backing				
09-4885	9/4/2009	2	0	Left Turn	1 None	3 East	2 South	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	08 Entering Lane	02 Failure to Yield				
09-5507	10/5/2009	2	0	Left Turn	1 None	1 North	2 South	3 East	4 West	1 Daylight	01 Dry	01 Clear	1 None	08 Entering Lane	02 Failure to Yield				
09-5565	10/7/2009	2	0	Rear End	1 None	3 East	4 West	3 East	4 West	4-6 Dark	01 Dry	01 Clear	1 None	01 Straight Ahead	08 Followed Too Closely				
97161	12/14/2009	3	0	Rear End	2-4 Injury	1 North	2 South	1 North	2 South	4-6 Dark	01 Dry	01 Clear	1 None	01 Straight Ahead	08 Followed Too Closely				
96450	11/16/2009	2	0	Right Turn	1 None	1 North	2 South	4 West	2 South	1 Daylight	01 Dry	02 Cloudy	1 None	08 Entering Lane	02 Failure to Yield				
94234	12/14/2009	2	0	eswipe Passi	1 None	1 North	2 South	1 North	2 South	1 Daylight	01 Dry	01 Clear	1 None	03 Changing Lanes	09 Improper Lane Change/Passing/Off Road				
1885	4/10/2009	2	0	Rear End	1 None	1 North	2 South	1 North	2 South	1 Daylight	01 Dry	02 Cloudy	1 None	01 Straight Ahead	08 Followed Too Closely				
2021	4/18/2009	3	0	Rear End	1 None	1 North	2 South	1 North	2 South	1 Daylight	01 Dry	01 Clear	1 None	11 Slowing/Stopped	08 Followed Too Closely				
2916	5/29/2009	2	0	eswipe Passi	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	1 None	03 Changing Lanes	09 Improper Lane Change/Passing/Off Road				
4652	8/24/2009	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	11 Slowing/Stopped	08 Followed Too Closely				
6507	11/18/2009	2	0	Rear End	1 None	1 North	2 South	1 North	2 South	1 Daylight	02 Wet	04 Rain	1 None	11 Slowing/Stopped	08 Followed Too Closely				

Years Studied: 2008 from/to 2010 Date: #####

LPA: Sycamore Township Location: Kenwood Road between Montgomery & Euclid

Project Number: 11102-001 ADT: 26000 Truck %: 2% seg Length: 0.5

2010																			
Report Number	Date	Total Number of Vehicles	Total Number of	Crash Type	Injuries	Direction (At Fault)		Direction (Not At Fault)		Light Conditions	Road Conditions	Weather	Alcohol/Drug Suspected	Pre-Crash Actions (At-Fault)	Contributing Circumstances (At-Fault)	Driver Age			
						From	To	From	To							Unit 1	Unit 2	Unit 3	Unit 4
10-100	1/6/2010	2	1	Left Turn	1 None	1 North	2 South	3 East	2 South	1 Daylight	01 Dry	02 Cloudy	1 None	01 Straight Ahead	08 Followed Too Closely				
10-210	1/10/2010	2	1	Left Turn	1 None	2 South	1 North	3 East	4 West	1 Daylight	01 Dry	02 Cloudy	6 Unknown	02 Backing	10 Improper Backing				
10-411	1/21/2010	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	2-5 Yes	11 Slowing/Stopped	08 Followed Too Closely				
10-196	1/9/2010	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	02 Wet	04 Rain	1 None	01 Straight Ahead	08 Followed Too Closely				
10-646	2/5/2010	2	0	Left Turn	1 None	1 North	2 South	4 West	3 East	1 Daylight	02 Wet	04 Rain	6 Unknown	01 Straight Ahead	08 Followed Too Closely				
10-901	2/17/2010	2	0	Rear End	2-4 Injury	1 North	2 South	1 North	2 South	1 Daylight	02 Wet	04 Rain	1 None	11 Slowing/Stopped	15 Failure to Control				
10-596	2/1/2010	2	0	Left Turn	1 None	2 South	3 East	2 South	1 North	1 Daylight	01 Dry	01 Clear	2-5 Yes	06 Turning Left	03 Ran Red Light, or Stop Sign				
10-1693	4/1/2010	3	0	Rear End	2-4 Injury	1 North	2 South	1 North	2 South	1 Daylight	01 Dry	01 Clear	1 None	11 Slowing/Stopped	08 Followed Too Closely				
10-1653	3/31/2010	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	01 Straight Ahead	08 Followed Too Closely				
10-1609	3/24/2009	2	0	Rear End	1 None	3 East	4 West	3 East	4 West	1 Daylight	01 Dry	01 Clear	1 None	11 Slowing/Stopped	22 Unknown (M)				
10-1406	3/17/2009	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	01 Straight Ahead	08 Followed Too Closely				
10-1756	4/5/2009	2	0	Rear End	2-4 Injury	3 East	8 Southwest	3 East	8 Southwest	1 Daylight	01 Dry	02 Cloudy	6 Unknown	08 Entering Lane	17 Driver Inattentiveness				
10-1992	4/20/2009	2	0	Angle	1 None	2 South	1 North	4 West	1 North	1 Daylight	01 Dry	01 Clear	6 Unknown	06 Turning Left	02 Failure to Yield				
10-2377	5/7/2010	2	0	Right Turn	1 None	2 South	1 North	3 East	1 North	1 Daylight	02 Wet	01 Clear	1 None	01 Straight Ahead	07 Left of Center				
10-2482	5/14/2009	2	0	Jeswipe Passi	1 None	1 North	2 South	1 North	2 South	1 Daylight	01 Dry	02 Cloudy	1 None	03 Changing Lanes	09 Improper Lane Change/Passing/Off Road				
10-2642	5/22/2010	2	0	Left Turn	1 None	1 North	2 South	4 West	1 North	1 Daylight	01 Dry	01 Clear	6 Unknown	06 Turning Left	02 Failure to Yield				
10-2617	5/21/2010	2	0	Rear End	2-4 Injury	2 South	1 North	2 South	1 North	1 Daylight	02 Wet	04 Rain	1 None	01 Straight Ahead	08 Followed Too Closely				
102958	6/5/2010	3	0	Rear End	1 None	2 South	1 North	2 South	1 North	4-6 Dark	01 Dry	01 Clear	1 None	01 Straight Ahead	08 Followed Too Closely				
103004	6/7/2010	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	11 Slowing/Stopped	08 Followed Too Closely				
103123	6/12/2010	2	0	Rear End	1 None	1 North	2 South	3 East	2 South	1 Daylight	01 Dry	01 Clear	1 None	11 Slowing/Stopped	08 Followed Too Closely				
103807	7/17/2010	2	0	Jeswipe Passi	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	03 Changing Lanes	09 Improper Lane Change/Passing/Off Road				
103797	7/16/2010	2	0	Left Turn	1 None	3 East	2 South	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	6 Unknown	06 Turning Left	02 Failure to Yield				
104174	8/6/2010	3	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	1 None	01 Straight Ahead	08 Followed Too Closely				
105608	10/18/2010	2	0	Left Turn	1 None	2 South	3 East	2 South	1 North	1 Daylight	01 Dry	01 Clear	6 Unknown	06 Turning Left	02 Failure to Yield				
105647	10/20/2010	2	0	Rear End	2-4 Injury	3 East	4 West	3 East	4 West	3 Dusk	01 Dry	01 Clear	1 None	01 Straight Ahead	08 Followed Too Closely				
106047	11/5/2010	2	0	Angle	1 None	1 North	2 South	3 East	4 West	3 Dusk	01 Dry	01 Clear	2-5 Yes	01 Straight Ahead	02 Failure to Yield				
106164	11/10/2010	2	0	Right Turn	1 None	4 West	2 South	1 North	2 South	3 Dusk	01 Dry	01 Clear	6 Unknown	08 Entering Lane	02 Failure to Yield				
106288	11/15/2010	2	0	Angle	2-4 Injury	2 South	4 West	1 North	2 South	4-6 Dark	01 Dry	02 Cloudy	2-5 Yes	06 Turning Left	02 Failure to Yield				
106962	12/11/2010	2	0	Left Turn	1 None	3 East	4 West	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	6 Unknown	08 Entering Lane	02 Failure to Yield				
107325	12/21/2010	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	02 Wet	02 Cloudy	1 None	11 Slowing/Stopped	08 Followed Too Closely				
107434	12/28/2010	2	0	Jeswipe Passi	1 None	1 North	2 South	1 North	7 Southeast	1 Daylight	01 Dry	02 Cloudy	1 None	01 Straight Ahead	09 Improper Lane Change/Passing/Off Road				
107426	12/27/2010	2	0	Rear End	2-4 Injury	1 North	2 South	1 North	2 South	1 Daylight	01 Dry	02 Cloudy	1 None	01 Straight Ahead	08 Followed Too Closely				
106297	11/15/2010	2	0	Angle	1 None	2 South	1 North	3 East	4 West	1 Daylight	01 Dry	01 Clear	1 None	08 Entering Lane	02 Failure to Yield				
48	1/4/2010	2	0	Rear End	1 None	1 North	2 South	1 North	2 South	4-6 Dark	02 Wet	06 Snow	1 None	01 Straight Ahead	08 Followed Too Closely				
1084	2/26/2010	2	0	Rear End	1 None	1 North	2 South	1 North	2 South	1 Daylight	01 Dry	02 Cloudy	1 None	11 Slowing/Stopped	17 Driver Inattentiveness				
2279	5/4/2010	2	0	Angle	1 None	2 South	1 North	3 East	2 South	1 Daylight	01 Dry	01 Clear	1 None	01 Straight Ahead	08 Followed Too Closely				
3399	6/25/2010	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	11 Slowing/Stopped	08 Followed Too Closely				
3738	7/13/2010	1	0	her Non Collis	1 None	4 West	1 North			1 Daylight	02 Wet	04 Rain	1 None	06 Turning Left	15 Failure to Control				
4060	7/31/2010	2	0	Rear End	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	01 Clear	1 None	11 Slowing/Stopped	08 Followed Too Closely				
7365	12/23/2010	2	0	Jeswipe Passi	1 None	2 South	1 North	2 South	1 North	1 Daylight	01 Dry	02 Cloudy	1 None	01 Straight Ahead	03 Ran Red Light, or Stop Sign				

# CRASH MATRIX

LPA: **Sycamore Township** Years Studied: **2008** from/to **2010**  
 PN: **11102-001** Crash Location: **Kenwood Road between Montgomery & Euclid**  
 Date: **1/25/2011**

Three-Year Crash Totals		Total	Not Stated	Head On	Rear-End	Backing	Left-Turn	Sideswipe Passing	Angle	Parked Vehicle	Pedestrian	Animal	Train	Pedicycles	Other Non Vehicle	Fixed Object	Other Object	Right-Turn	Overturning	Left-Turn	
Total Accidents		87	0	0	37	3	21	14	7	0	0	0	0	0	0	0	0	4	0	21	
Percent of Total		100%	0%	0%	43%	3%	24%	16%	8%	0%	0%	0%	0%	0%	0%	0%	0%	5%	0%	24%	
Injuries	PDO	73	0	0	27	2	20	14	5	0	0	0	0	0	0	0	0	4	0	20	
	2-4 Injury	14	0	0	10	1	1	0	2	0	0	0	0	0	0	0	0	0	0	1	
	5 Fatality	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1 North	28	0	0	13	1	8	4	1	0	0	0	0	0	0	0	0	1	0	8	
	2 South	40	0	0	19	0	6	8	5	0	0	0	0	0	0	0	0	2	0	6	
Direction (At Fault)	3 East	12	0	0	5	2	3	2	0	0	0	0	0	0	0	0	0	0	0	3	
	4 West	6	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	1	0	4	
	5 Northeast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6 Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7 Southeast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	8 Southwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	9 Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1 North	42	0	0	18	1	7	9	4	0	0	0	0	0	0	0	0	2	0	7	
	2 South	30	0	0	13	1	9	4	1	0	0	0	0	0	0	0	0	2	0	9	
3 East	4	0	0	0	0	4	0	0	0	0	0	0	0	0	0	0	0	0	4		
Direction (Not At Fault)	4 West	9	0	0	5	1	1	1	1	0	0	0	0	0	0	0	0	0	0	1	
	5 Northeast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6 Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7 Southeast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	8 Southwest	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	9 Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1 North	21	0	0	13	1	2	3	1	0	0	0	0	0	0	0	0	1	0	2	
	2 South	35	0	0	18	2	7	8	0	0	0	0	0	0	0	0	0	0	0	7	
	3 East	21	0	0	6	0	7	2	5	0	0	0	0	0	0	0	0	1	0	7	
Direction (Not At Fault)	4 West	7	0	0	0	0	4	1	1	0	0	0	0	0	0	0	0	1	0	4	
	5 Northeast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6 Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7 Southeast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	8 Southwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	9 Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1 North	42	0	0	18	2	11	8	2	0	0	0	0	0	0	0	0	1	0	11	
	2 South	25	0	0	14	0	5	2	2	0	0	0	0	0	0	0	0	2	0	5	
	3 East	4	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	1	
Light Conditions	4 West	11	0	0	4	0	3	1	3	0	0	0	0	0	0	0	0	0	0	3	
	5 Northeast	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	6 Northwest	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	7 Southeast	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	
	8 Southwest	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	9 Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	1 Daylight	77	0	0	32	2	20	14	5	0	0	0	0	0	0	0	0	3	0	20	
	2 Dawn	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	3 Dusk	4	0	0	1	0	1	0	1	0	0	0	0	0	0	0	0	1	0	1	
Road Conditions	4-6 Dark	6	0	0	4	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	
	7 Glare	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	8 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	9 Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	01 Dry	74	0	0	30	3	18	13	7	0	0	0	0	0	0	0	0	3	0	18	
	02 Wet	13	0	0	7	0	3	1	0	0	0	0	0	0	0	0	0	1	0	3	
	03 Snow	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	04 Ice	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	05 Sand, Mud, Etc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	06 Water	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	07 Slush	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Weather	08 Debris	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	09 Rut, Holes, Etc.	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	10 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	11 Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	01 Clear	43	0	0	19	2	9	7	4	0	0	0	0	0	0	0	0	2	0	9	
	02 Cloudy	33	0	0	12	1	9	6	3	0	0	0	0	0	0	0	0	2	0	9	
	03 Fog, Smog, Smoke	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	04 Rain	10	0	0	5	0	3	1	0	0	0	0	0	0	0	0	0	0	0	3	
	05 Sleet, Hail	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	06 Snow	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
07 Severe Crosswinds	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
08 Blowing Soil, Sand, Dirt	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
09 Other	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
10 Unknown	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		



# CRASH SUMMARY

LPA: Sycamore Township

Proj#: 11102-001

Date: 1/25/2011

Crash Location: Kenwood Road between Montgomery & Euclid

Crash Data					
Three Year Total	87	PDO	72	Truck %	2%
Annual Average	29.00	Injury	14	Fatal	
ADT (vpd)	26000	RSI	26903	EPDO Rate	10.37
Crash Rate (acc/MEV)	<b>6.11</b>	Seg Length (mi)	0.5	ΔChange	0.48

<input type="checkbox"/>	Freeway
<input checked="" type="checkbox"/>	Non-Freeway
<input checked="" type="checkbox"/>	Urban
<input type="checkbox"/>	Rural
<input type="checkbox"/>	Spot Location
<input checked="" type="checkbox"/>	Roadway Segment

Crash Type													
Description	2008			2009			2010			Total			
	Total	Injury	Fatal	Total	Injury	Fatal	Total	Injury	Fatal	Total	%	Injury	Fatal
Not Stated													
Head On													
Rear End	9	3		8	1		20	6		37	43%	10	
Backing	2	1		1						3	3%	1	
SSM/Left													
Sideswipe Passing	3			7			4			14	16%		
Angle	1	1		1			5	1		7	8%	2	
Parked Vehicle													
Pedestrian													
Animal													
Train													
Pedacycles													
Other Non Vehicle													
Fixed Object													
Other Object													
Right Turn	1			1			2			4	5%		
Overturning													
Left Turn	5			8	1		8			21	24%	1	
<b>Grand Total</b>	<b>21</b>	<b>5</b>		<b>26</b>	<b>2</b>		<b>39</b>	<b>7</b>		<b>86</b>	<b>100%</b>	<b>14</b>	

*Red Text-Crash Types Not Shown in table "Crash Analysis" spreadsheet*

Light Conditions													
Description	2008			2009			2010			Total			
	Total	Injury	Fatal	Total	Injury	Fatal	Total	Injury	Fatal	Total	%	Injury	Fatal
1 Daylight	20	4		23	1		34	5		77	89%	10	
2 Dawn													
3 Dusk				1			3	1		4	5%	1	
4-6 Dark	1	1		2	1		3	1		6	7%	3	
7 Glare													
8 Other													
9 Unknown													
<b>Grand Total</b>	<b>21</b>	<b>5</b>		<b>26</b>	<b>2</b>		<b>40</b>	<b>7</b>		<b>87</b>	<b>100%</b>	<b>14</b>	

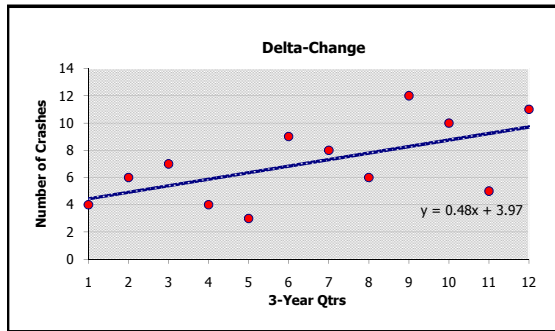
Road Conditions													
Description	2008			2009			2010			Total			
	Total	Injury	Fatal	Total	Injury	Fatal	Total	Injury	Fatal	Total	%	Injury	Fatal
01 Dry	19	5		23	2		32	5		74	85%	12	
02 Wet	2			3			8	2		13	15%	2	
03 Snow													
04 Ice													
05 Sand, Mud, Etc.													
06 Water													
07 Slush													
08 Debris													
09 Rut, Holes, Etc.													
10 Other													
11 Unknown													
<b>Grand Total</b>	<b>21</b>	<b>5</b>		<b>26</b>	<b>2</b>		<b>40</b>	<b>7</b>		<b>87</b>	<b>100%</b>	<b>14</b>	

Weather													
Description	2008			2009			2010			Total			
	Total	Injury	Fatal	Total	Injury	Fatal	Total	Injury	Fatal	Total	%	Injury	Fatal
01 Clear	12	3		11	2		20	2		43	49%	7	
02 Cloudy	7	2		12			14	3		33	38%	5	
03 Fog, Smog, Smoke													
04 Rain	2			3			5	2		10	11%	2	
05 Sleet, Hail													
06 Snow							1			1	1%		
07 Severe Crosswinds													
08 Blowing Soil, Sand, Dirt													
09 Other													
10 Unknown													
<b>Grand Total</b>	<b>21</b>	<b>5</b>		<b>26</b>	<b>2</b>		<b>40</b>	<b>7</b>		<b>87</b>	<b>100%</b>	<b>14</b>	

## CRASH SUMMARY

Direction (At Fault)													
Description	2008			2009			2010			Total			
	From	To	I/F (From)	From	To	I/F (From)	From	To	I/F (From)	From	To	% From	I/F (From)
1 North	3	14	1	13	9	2	12	12	3	28	35	37%	6
2 South	11	2	3	8	14		21	21	2	40	37	45%	5
3 East	4	2	1	3			5	5	2	12	7	11%	3
4 West	3	3		1	2		2	2		6	7	8%	
5 Northeast													
6 Northwest													
7 Southeast													
8 Southwest													
9 Unknown													
<b>Grand Total</b>	<b>21</b>	<b>21</b>	<b>5</b>	<b>25</b>	<b>25</b>	<b>2</b>	<b>40</b>	<b>40</b>	<b>7</b>	<b>86</b>	<b>86</b>	<b>100%</b>	<b>14</b>

Direction (Not At Fault)													
Description	2008			2009			2010			Total			
	From	To	I/F (From)	From	To	I/F (From)	From	To	I/F (From)	From	To	% From	I/F (From)
1 North	6	10	1	6	12	1	9	20	4	21	42	37%	6
2 South	9	6	3	9	8		17	11	1	35	25	35%	4
3 East	5	2	1	6	1		10	1	2	21	4	15%	3
4 West		2		4	4	1	3	5		7	11	10%	1
5 Northeast													
6 Northwest													
7 Southeast								1			1	1%	
8 Southwest								1			1	1%	
9 Unknown													
<b>Grand Total</b>	<b>20</b>	<b>20</b>	<b>5</b>	<b>25</b>	<b>25</b>	<b>2</b>	<b>39</b>	<b>39</b>	<b>7</b>	<b>84</b>	<b>84</b>	<b>100%</b>	<b>14</b>



Delta Change			
2008	2009	2010	Quarter
4	3	12	1
6	9	10	2
7	8	5	3
4	6	11	4
0.100	0.800	-0.800	ΔYear
	0.479		ΔChange



# CRASH SUMMARY

Prepared By: **TEC Engineering, Inc.**  
**Three Year Totals:** *2008* to *2010*

Contributing Factor (At-Fault)								
Description	2008		2009		2010		Total	
	#	%	#	%	#	%	#	%
01 None (Motorist)								
02 Failure to Yield	5	24%	8	31%	9	23%	22	25%
03 Ran Red Light, or Stop Sign			2	8%	2	5%	4	5%
04 Exceeded Speed Limit								
05 Unsafe Speed	1	5%					1	1%
06 Improper Turn	2	10%					2	2%
07 Left of Center					1	3%	1	1%
08 Followed Too Closely	7	33%	8	31%	19	48%	34	39%
09 Improper Lane Change/Passing/Off Road	1	5%	6	23%	3	8%	10	11%
10 Improper Backing	1	5%	1	4%	1	3%	3	3%
11 Improper Start from Parked Position	1	5%					1	1%
12 Stopped or Parked Illegally								
13 Erratic/Negligent Driving								
14 Swerving to Avoid								
15 Failure to Control			1	4%	2	5%	3	3%
16 Vision Obstruction								
17 Driver Inattentiveness					2	5%	2	2%
18 Fatigue/Asleep								
19 Operating Defective Equipment								
20 Load Shifting/Falling/Spilling								
21 Other Improper Action								
22 Unknown (M)	2	10%			1	3%	3	3%
23 None (N-M)	1	5%					1	1%
24 Improper Crossing (N-M)								
25 Darting (N-M)								
26 Lying and/or Illegally in Roadway (N-M)								
27 Failure to Yield Right of Way (N-M)								
28 Not Visible (N-M)								
29 Inattentive (N-M)								
30 Failure to Obey Signs, Signals, Etc. (N-M)								
31 Wrong Side of the Road (N-M)								
32 Other (N-M)								
33 Unknown (N-M)								
<b>Totals</b>	<b>21</b>	<b>24%</b>	<b>26</b>	<b>30%</b>	<b>40</b>	<b>46%</b>	<b>87</b>	

Pre-Crash Actions (At-Fault)								
Description	2008		2009		2010		Total	
	#	%	#	%	#	%	#	%
01 Straight Ahead	10	48%	6	23%	16	40%	32	37%
02 Backing	2	10%	1	4%	1	3%	4	5%
03 Changing Lanes	1	5%	5	19%	2	5%	8	9%
04 Passing								
05 Turning Right			1	4%			1	1%
06 Turning Left	4	19%	2	8%	7	18%	13	15%
07 Making U-Turn								
08 Entering Lane			6	23%	4	10%	10	11%
09 Leaving Lane	1	5%	1	4%			2	2%
10 Parked								
11 Slowing/Stopped	3	14%	4	15%	10	25%	17	20%
12 Driverless								
13 Other								
14 Unknown								
15 Enter/Cross (N-M)								
16 Walking, Running (N-M)								
17 Working (N-M)								
18 Pushing Vehicle (N-M)								
19 App/Leave Veh (N-M)								
20 Play/Work On Veh (N-M)								
21 Standing (N-M)								
22 Other (N-M)								
23 Unknown (N-M)								
<b>Totals</b>	<b>21</b>	<b>24%</b>	<b>26</b>	<b>30%</b>	<b>40</b>	<b>46%</b>	<b>87</b>	

Vehicle Types								
Description	2008		2009		2010		Total	
	#	%	#	%	#	%	#	%
Trucks					2	2%	2	1%
Other	43	100%	55	100%	80	98%	178	99%
<b>Totals</b>	<b>43</b>	<b>24%</b>	<b>55</b>	<b>31%</b>	<b>82</b>	<b>46%</b>	<b>180</b>	

## CRASH SUMMARY

Alcohol/Drug Suspected								
Description	2008		2009		2010		Total	
	#	%	#	%	#	%	#	%
1 None	21	100%	25	96%	27	68%	73	84%
2-5 Yes					4	10%	4	5%
6 Unknown			1	4%	9	23%	10	11%
<b>Totals</b>	<b>21</b>	<b>24%</b>	<b>26</b>	<b>30%</b>	<b>40</b>	<b>46%</b>	<b>87</b>	

Driver Age								
Description	2008		2009		2010		Total	
	#	%	#	%	#	%	#	%
<20		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!
20-24		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!
25-65		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!
>65		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!
NA		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!
<b>Totals</b>		#DIV/0!		#DIV/0!		#DIV/0!		#DIV/0!

Relative Severity Index (RSI)						
Description	Total	RSI-Urban	Sum of Products	Freeway	Non-Freeway	
Not Stated		28922.16901				
Head On		51696.43602				
Rear End	37	24949.70363	923139.0342			
Backing	3	24297.19978	72891.59935			
Left Turn		37430.16176				✓
Sideswipe Passing	14	24272.3645	339813.1029			
Angle	7	28552.75067	199869.2547			
Parked Vehicle		21194.58128				
Pedestrian		74466.37769				
Animal		18143.47956				
Train		200714.25				
Pedacycles		41648.65644				✓
Other Non Vehicle						
Fixed Object		25433.61158				
Other Object		18485.26049				
Right Turn	4	28552.75067	114211.0027			
Overturning		42095.85164				
Left Turn	21	31608.11778	663770.4735			
<b>Grand Total</b>	<b>86</b>	<b>26903</b>	<b>2313694.467</b>			✓

# TRAFFIC CRASH ANALYSIS

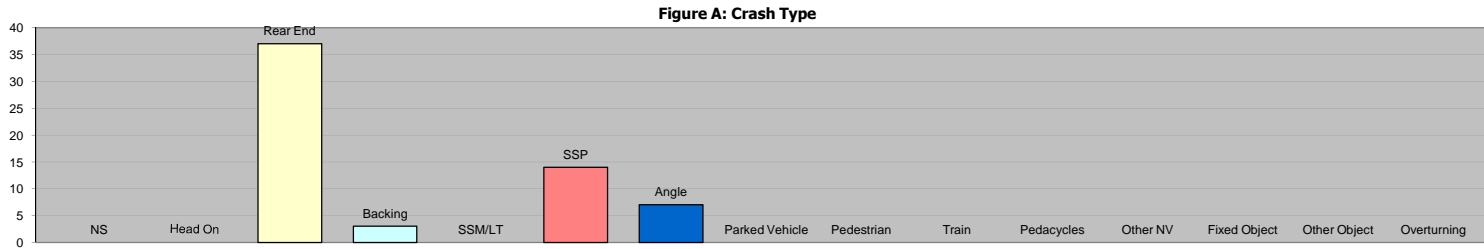
LPA: [Sycamore Township](#)  
 Crash Location: [Kenwood Road between Montgomery & Euclid](#)  
 Prepared By: [TEC Engineering, Inc.](#)

Years: 2008 to 2010  
 ADT: 26000 vpd  
 Segment Length (mi): 0.5

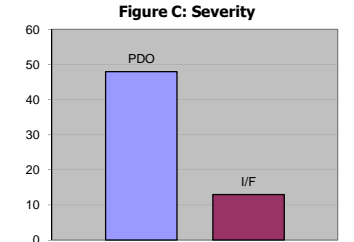
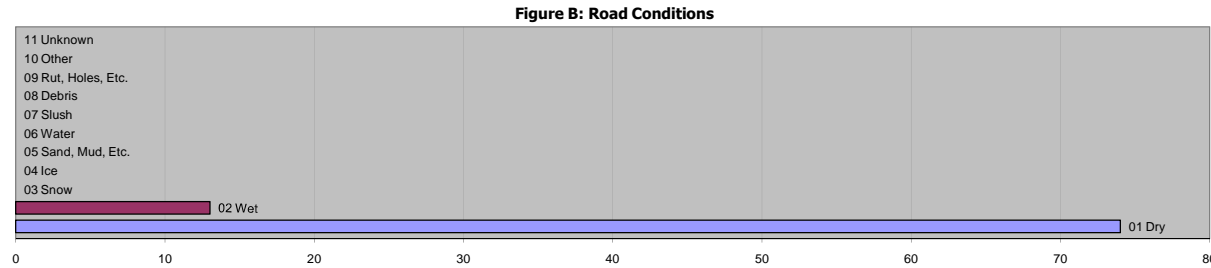
Project #: 11102-001  
 Date: 1/25/2011

Year	CRASH TYPE																																
	NS		Head On		Rear End		Backing		SSM/LT		SSP		Angle		Parked Vehicle		Pedestrian		Train		Pedacycles		Other NV		Fixed Object		Other Object		Overturning		TOTAL		
	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO
2008	0	0	0	0	6	3	1	1	0	0	3	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	5	
2009	0	0	0	0	7	1	1	0	0	0	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	1		
2010	0	0	0	0	14	6	0	0	0	0	4	0	4	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22	7			
Subtotal	0	0	0	0	27	10	2	1	0	0	14	0	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	48	13			
Total	0	0	0	0	37	3	3	0	0	14	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	61				

Crash Types "Animal", "NA", & "Other Non Collision" are not listed above... Animal = 0 NA = 4 Other Non Collision = 21 Total (with excluded Crash Types) = 86



Year	ROAD CONDITIONS																						CRASH STATISTICS				
	01 Dry		02 Wet		03 Snow		04 Ice		05 Sand, Mud, Etc.		06 Water		07 Slush		08 Debris		09 Rut, Holes, Etc.		10 Other		11 Unknown		TOTAL	Description	Value		
	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	
2008	14	5	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	16	5	Crash Frequency	87	
2009	21	2	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	24	2	Truck %	2%	
2010	27	5	6	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	33	7	Crash Rate	6.11	
Subtotal	62	12	11	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	73	14	EPDO Rate	10.37	
Total	74	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	87	14	RSI	26903	
																										ΔChange	0.48



Year	LIGHT CONDITIONS														TOTAL
	1 Daylight		2 Dawn		3 Dusk		4-6 Dark		7 Glare		8 Other		9 Unknown		
	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	PDO	I/F	
2008	16	4	0	0	0	0	0	1	0	0	0	0	0	16	5
2009	22	1	0	0	1	0	1	1	0	0	0	0	0	24	2
2010	29	5	0	0	2	1	2	1	0	0	0	0	0	33	7
Subtotal	67	10	0	0	3	1	3	3	0	0	0	0	0	73	14
Total	77	0	4	6	0	0	0	0	0	0	0	0	0	87	

