

CRASH HISTORY

Supplement to the Transportation Impact Study
for

Kennett Gateway

East Cypress Street (SR 3046 - 2,000' Segment)

Kennett Township
Chester County, PA

October 2019

These data are the property of the Commonwealth of Pennsylvania, Department of Transportation. The data and information contained herein are part of a traffic engineering and safety study. This safety study is only provided to those official agencies or persons who have responsibility in the highway transportation system and may only be used by such agencies or persons for traffic safety-related planning or research. The information is confidential pursuant to 75 Pa. C.S. 3754 and 23 U.S.C. 409 and may not be published, reproduced, released, or discussed without the written permission of the PA Department of Transportation.

Crash Analysis

Crash data was obtained from PennDOT's Crash Information Systems and Analysis Division for the following intersection:

- East Cypress Street (SR 3046) - 2,000' along frontage to Excelon Way/Waywood Road

PennDOT defines a reportable crash as follows: "A reportable (crash) is one in which an injury or fatality occurs or if at least one of the vehicles involved requires towing from the scene." Reportable crashes were tabulated for a five-year time period beginning January 1, 2014 and ending December 31, 2018.

There were a total of 9 crashes reported within the study limits with a majority, 5 crashes, being rear-end crashes, 3 angle crashes, and 1 unknown crash. Based on our review of the crash data, the predominant causation factor for the reported crashes was affected by physical conditions, speeding, distractions, and/or improper driving. The crashes resulted in 4 possible injuries the remainder with mainly property damage only. There were no fatalities.

PennDOT Reportable Crash Summary					
Location	Number of Reportable Crashes				
	2014	2015	2016	2017	2018
East Cypress Street	2	2	0	2	3

SR 3046 (East Cypress Street - 2,000' along the Site Frontage)

Crash Rate Calculations

- R = Crash Rate per million vehicle miles traveled
- IR = Injury crash Rate per million vehicle miles traveled
- FR = Fatality crash rate per 100 million vehicles miles traveled
- C = Number of crashes at the study location; within a 5-year time period
- FC = Number of fatalities at the study location; within a 5-year time period
- I = Number of injuries at the study location; within a 5-year time period
- T = Time period when crashes are occurring (days)
- V = Average Daily Traffic (ADT)

Project Data	
4	injuries
9	crashes
0	fatalities
5	years
7,243	ADT

$$R = \frac{(C \times 1,000,000)}{(365 \times N \times V)} = \frac{9,000,000}{13,218,475} = 0.68$$

$$IR = \frac{(I \times 1,000,000)}{(365 \times N \times V)} = \frac{4,000,000}{13,218,475} = 0.30$$

$$FR = \frac{(FC \times 1,000,000,000)}{(365 \times N \times V)} = \frac{0}{13,218,475} = 0.00$$

State Average ⁽¹⁾ (2012-2016)	
1.27	/MMT
0.43	/MMT
0.005	/100MMT

⁽¹⁾ From PennDOT Homogenous Report

Crash Summary

Crash	Date	Crash Type	Injuries	Fatalities
1	04/28/17	Rear-End	0	0
2	09/18/14	Rear-End	1	0
3	04/21/17	Rear-End	0	0
4	05/15/15	Rear-End	0	0
5	02/06/18	Angle	0	0
6	02/26/18	Unknown (Deer)	0	0
7	07/15/18	Angle	0	0
8	02/02/15	Rear-End	0	0
9	07/01/14	Angle	3	0

Information for State Average⁽²⁾

Crashes: **13,908**
 Injuries: **4,726**
 Deaths: **50**
 PDO: **6,249**
 Million Miles: **10,932**

⁽²⁾ URBAN, NFAC, UNDIV, 27-40', 1-9.9k

Analysis of Crash Trends (contributing causes):

- No contributing action - 7 actions
- Improper/Careless lane change - 1 actions
- Running red light - 1 actions
- Affected Physical Condition - 2 actions
- Inexperienced driver - 1 action
- Illegally stopped in lane - 1 action
- Distracted driver - 1 action
- Speeding - 1 action
- Tailgating - 1 action

APPENDIX

PennDOT Crash Data Reports

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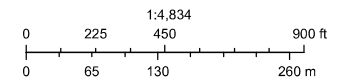
Kennett Gateway Crash Analysis Map



October 1, 2019

- Fatal Injury
- Injury Crash
- Property damage Only
- County
- Line - 2029.359 Feet - Buffer (100 Feet)

— Line - 2029.359 Feet



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Date Range: 01/01/2014 to 12/31/2018*

CRASH SEVERITY LEVEL BY YEAR

	2014 CRASHES	2015 CRASHES	2017 CRASHES	2018 CRASHES	ALL YEARS CRASHES
POSSIBLE INJURY	1	0	0	0	1
UNKNOWN SEVERITY	1	0	0	0	1
PROPERTY DMG ONLY	0	2	2	3	7
TOTAL	2	2	2	3	9

CRASH DESCRIPTION TYPES BY YEAR

	2014 CRASHES	2015 CRASHES	2017 CRASHES	2018 CRASHES	ALL YEARS CRASHES
ANGLE	1	0	0	2	3
REAR END	1	2	2	0	5
UNKNOWN TYPE	0	0	0	1	1
TOTAL	2	2	2	3	9

PERSON INJURY SUMMARY BY YEAR

	2014 PERSONS	2015 PERSONS	2017 PERSONS	2018 PERSONS	ALL YEARS PERSONS
FATALITIES	0	0	0	0	0
SUSPECTED SERIOUS INJURIES	0	0	0	0	0
SUSPECTED MINOR INJURIES	0	0	0	0	0
POSSIBLE INJURIES	3	0	0	0	3
UNKNOWN SEVERITY	1	0	0	0	1
UNKNOWN IF INJURED	0	0	0	0	0

*** PLEASE NOTE: Years which do not appear in the report contain zero crashes for this request.**

* Complete records of reportable crashes are available in PCIT for the following years: 1999 - 2018

* Crash information for 2019 is incomplete at the time of this printing. As such, data for 2019 is not included in this report.

IMPORTANT: The information contained in this document is drawn from raw data and should not be interpreted as representing an engineering judgement or determination made by the Department of Transportation as to the type and severity of accidents noted herein.

Print Date: 10/01/2019

NOTES:

1 Injury Severity Disclaimer

Please note that beginning January 1, 2016, PennDOT adopted the Federal standard for collecting injury severity data. The field descriptions and definitions changed from the state standard that had been in use for decades. This resulted in a substantial shift in severity levels. Therefore, comparison of the "Suspected Serious Injury", "Suspected Minor Injury" and "Possible Injury" categories will not be consistent for crashes taking place before versus after the adoption of the new standard.

REPORT PARAMETERS:

Query ID: 0320191001276

User ID: b-joschick

Title: Crash Analysis to supplemer

Date Range : 01/01/2014 to 12/31/2018

Selected Shapes : Line - 2029.359 Feet - Buffer (100 Feet),Line - 2029.359 Feet

Filter Characteristics:

Pennsylvania Crash Information Tool

Crash Analysis to supplement PennDOT TIS/HOP

Sorted by County, Route, Segment, Offset

Date Range: 01/01/2014 to 12/31/2018

USER ID / QUERY ID:
b-joschick / 0320191001277



CRN	CO	DATE	DAY	TIME	LIGHTING	ROAD SURF	WEATHER	FAT	INJ	PED	VEH	MAX SEVERITY	
1	2017071861	15	04/28/2017	FRI	21:14	STREET LT	DRY	CLEAR	0	0	0	2	PROP DMG ONLY
ENV RDWY FACTORS: NONE												REAR-END	
MIDB 3046/0112/1407													
VEH: 1 SMALL TRUCK TRAVELING EAST IN RIGHT LANE GOING STRAIGHT													
VEH EVENTS: HIT UNIT 02 HIT UTILITY POLE													
DVR ACTIONS: SPEEDING													
VEH: 2 AUTOMOBILE TRAVELING EAST IN RIGHT LANE GOING STRAIGHT													
VEH EVENTS: STRUCK BY UNIT 01													
DVR ACTIONS: NO CONTRIBUTING ACTION													
2	2014093748	15	09/18/2014	THR	06:28	DAYLIGHT	DRY	CLEAR	0	1	0	2	UNK SEVERITY
ENV RDWY FACTORS: NONE												REAR-END	
MIDB 3046/0112/1482													
VEH: 1 AUTOMOBILE TRAVELING EAST IN LEFT LANE GOING STRAIGHT													
VEH EVENTS: HIT UNIT 02 HIT OTHER FIXED OBJECT													
DVR ACTIONS: TAILGATING													
VEH: 2 LARGE TRUCK TRAVELING EAST IN LEFT LANE TURNING LEFT													
VEH EVENTS: STRUCK BY UNIT 01													
DVR ACTIONS: NO CONTRIBUTING ACTION													
3	2017047257	15	04/21/2017	FRI	20:44	DARK	DRY	CLEAR	0	0	0	2	PROP DMG ONLY
ENV RDWY FACTORS: NONE												REAR-END	
MIDB 3046/0112/1491													
VEH: 1 AUTOMOBILE TRAVELING WEST IN RIGHT LANE GOING STRAIGHT													
VEH EVENTS: HIT UNIT 02													
DVR ACTIONS: DRIVER INEXPERIENCED DRIVER WAS DISTRACTED													
VEH: 2 SUV TRAVELING WEST IN RIGHT LANE STOPPED IN TRAFFIC LANE													
VEH EVENTS: STRUCK BY UNIT 01													
DVR ACTIONS: ILLEGALLY STOPPED ON ROAD													
4	2015056622	15	05/15/2015	FRI	17:31	DAYLIGHT	DRY	CLEAR	0	0	0	2	PROP DMG ONLY
ENV RDWY FACTORS: NONE												REAR-END	
MIDB 3046/0112/1762													
VEH: 1 SUV TRAVELING EAST IN LEFT LANE GOING STRAIGHT												ALC TEST: 99	
VEH EVENTS: HIT UNIT 02													
DVR ACTIONS: AFFECTED BY PHYSICAL COND TAILGATING													
VEH: 2 AUTOMOBILE TRAVELING EAST IN LEFT LANE SLOWING OR STOPPING IN LANE													
VEH EVENTS: STRUCK BY UNIT 01													
DVR ACTIONS: NO CONTRIBUTING ACTION													
5	2018024393	15	02/06/2018	TUE	04:20	STREET LT	DRY	CLEAR	0	0	0	3	PROP DMG ONLY
ENV RDWY FACTORS: NONE												ANGLE	
MIDB 3046/0112/1892													
VEH: 1 AUTOMOBILE TRAVELING EAST IN UNKNOWN GOING STRAIGHT													
VEH EVENTS: HIT UNIT 02													
DVR ACTIONS: AFFECTED BY PHYSICAL COND													

Pennsylvania Crash Information Tool

Crash Analysis to supplement PennDOT TIS/HOP

Sorted by County, Route, Segment, Offset

Date Range: 01/01/2014 to 12/31/2018

USER ID / QUERY ID:
b-joschick / 0320191001277



CRN	CO	DATE	DAY	TIME	LIGHTING	ROAD SURF	WEATHER	FAT	INJ	PED	VEH	MAX SEVERITY	
6	2018027780	15	02/26/2018	MON	22:58	DARK	DRY	CLEAR	0	0	0	1	PROP DMG ONLY
ENV RDWY FACTORS: DEER IN ROADWAY MIDB 3046/0112/1953 VEH: 1 AUTOMOBILE TRAVELING EAST IN LEFT LANE GOING STRAIGHT VEH EVENTS: HIT DEER DVR ACTIONS: NO CONTRIBUTING ACTION													
7	2018074682	15	07/12/2018	THR	21:08	STREET LT	DRY	CLEAR	0	0	0	2	PROP DMG ONLY
ENV RDWY FACTORS: NONE MIDB 3046/0112/2081 VEH: 1 AUTOMOBILE TRAVELING EAST IN RIGHT LANE PASSING/OVERTAKING VEH VEH EVENTS: HIT UNIT 02 DVR ACTIONS: CARELESS PASS OR LANE CHANGE IMPROPER/CARELESS TURN VEH: 2 SMALL TRUCK TRAVELING EAST IN LEFT LANE GOING STRAIGHT VEH EVENTS: STRUCK BY UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION													
8	2015029618	15	02/02/2015	MON	10:38	DAYLIGHT	DRY	CLEAR	0	0	0	2	PROP DMG ONLY
ENV RDWY FACTORS: NONE 4WAY 3046/0120/0422 3046/0121/0396 EXELON WY WAYWOOD RD VEH: 1 SMALL TRUCK TRAVELING WEST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: HIT UNIT 02 DVR ACTIONS: DRIVER WAS DISTRACTED VEH: 2 SMALL TRUCK TRAVELING WEST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: STRUCK BY UNIT 01 DVR ACTIONS: NO CONTRIBUTING ACTION													
9	2014067769	15	07/01/2014	TUE	16:37	DAYLIGHT	DRY	CLEAR	0	3	0	2	POSSIBLE INJURY
ENV RDWY FACTORS: NONE 4WAY 3046/0121/0396 EXELON WY WAYWOOD RD VEH: 1 AUTOMOBILE TRAVELING SOUTH IN RIGHT LANE TURNING LEFT ON RED VEH EVENTS: HIT UNIT 02 DVR ACTIONS: RUNNING RED LIGHT VEH: 2 AUTOMOBILE TRAVELING WEST IN RIGHT LANE GOING STRAIGHT VEH EVENTS: STRUCK BY UNIT 01 HIT OTHER FIXED OBJECT DVR ACTIONS: NO CONTRIBUTING ACTION													

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