

Barnstable County High Crash Locations

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CAPE COD
COMMISSION



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Introduction

GOALS AND OBJECTIVES

This report is the result of the Cape Cod Commission's effort to identify the most dangerous intersections in Barnstable County. The data used for this endeavor, includes reported crashes from 2012-2016, which were the most recent available years of data from the Massachusetts Department of Transportation (MassDOT) and local police departments from Barnstable County.

Through the analysis of available data, a series of top crash location lists have been generated. The lists will assist in directing federal, state, and local funds towards improving intersections that pose the highest safety risk to its users. It is anticipated that this information will be useful to local police departments who have the resources and ability to reduce speed and unsafe driving through enforcement. It is the Commission's hope that this document will highlight the need for accurate and comprehensive reporting between the fifteen Barnstable County towns and state agencies. Beyond serving as support for improvement funds, this report will also help focus future safety studies on the locations with most need.

TOP CRASH LISTS

There are several methodologies that can be used to generate a list of top crash locations for a given geographic area. Two common methods include sorting by total crashes that occurred during a specified time in history and sorting by crashes per one million entering vehicles (also known as a crash rate). Two other frequently used methods involve weighting each crash according to severity (whether the crash produced an injury or fatality). Each method has advantages and disadvantages. Using total crash numbers or a crash rate is simpler, and requires less information to use. Using crash severity can be helpful to highlight an intersection with few but severe crashes. Using a rate against a dataset

further refines the number of crashes or severity of an area. Each methodology will be discussed in further detail later in this report.

This report includes four high crash lists that identify the most dangerous intersections based on four different focuses.

DATA SOURCE

The data used for analysis in this report was provided by the MassDOT Registry of Motor Vehicles (RMV). These data are the end result of a series of data sharing procedures between citizens, local police departments, the Massachusetts Registry of Motor Vehicles (RMV – an administrative department of MassDOT). If an individual is involved in a crash that results in at least \$1,000 of damage or injury, they are required to fill out a Motor Vehicle Crash Operator Report and mail copies to the local police department and the RMV. Also, local and state police officers will respond to many crashes located in their jurisdiction, and their subsequent reports will be sent to the RMV. The RMV compiles the data and inputs all available information from the reports into a large database. This database is then shared with MassDOT's Office of Transportation Planning. MassDOT is then able to use geolocating tools in Geographic Information System (GIS) software to identify the locations of each crash. The resultant output of crash clusters is the basis for our analysis.

Unfortunately, this geolocating approach by MassDOT is only the minimum number of crashes at any given location. Non-located crashes are typically the result of poor location identification in the written crash reports.

DATA ANALYSES

The data provided by MassDOT is very comprehensive. Each crash cluster is accompanied with information regarding the number of crashes – specifying number of fatal, injurious, and property damage only crashes. The inclusion of the information concerning severity allows for the calculation of an intersection's Equivalent Property Damage Only

(EPDO). EPDO is a value created by weighting each crash based on its severity and then aggregating the totals.

Figure 1 below, depicts the 25,060 spatially located crashes in Barnstable County from 2012 to 2016. There was a total of 26,616 crashes in Barnstable County during this 5-year period.

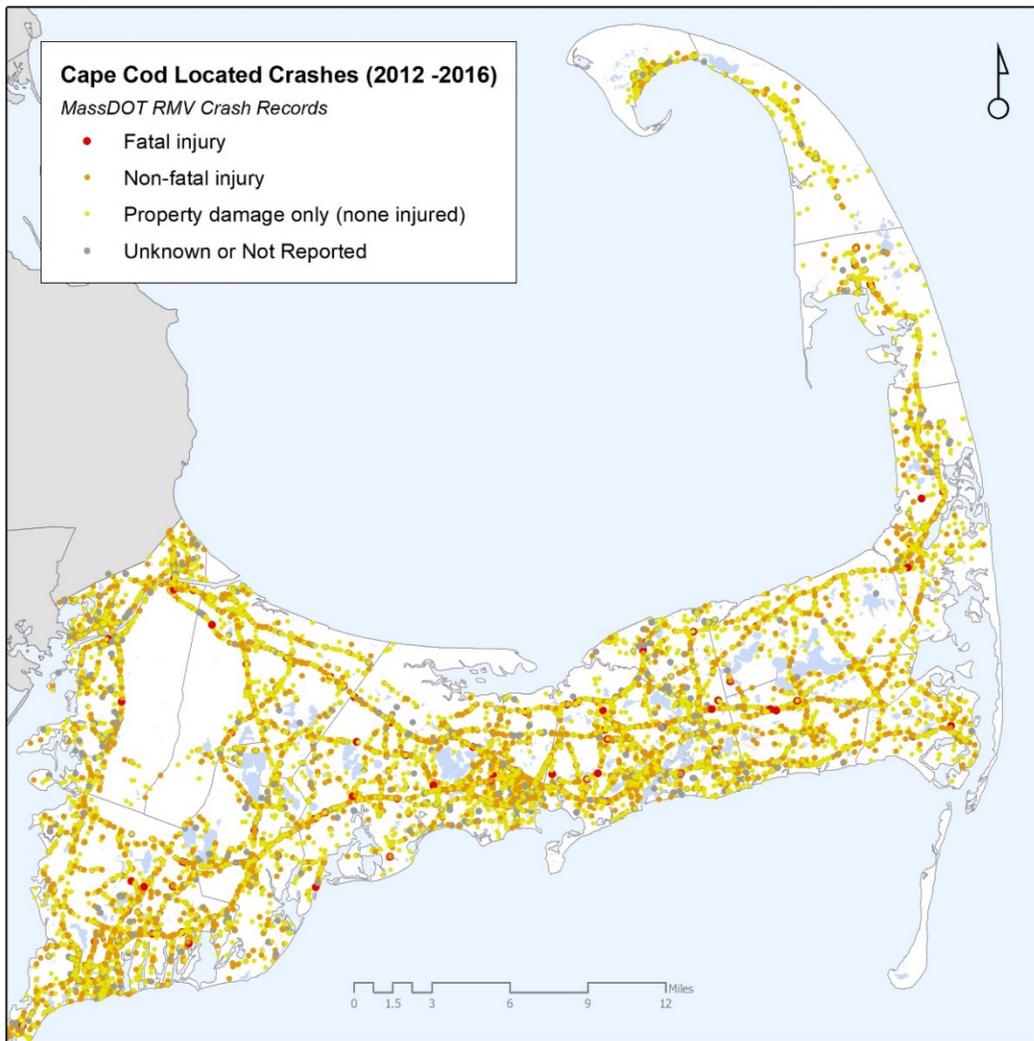


FIGURE 1: BARNSTABLE COUNTY LOCATED CRASHES, 2012-2016

Analysis

TOP CRASH LISTS

TOP LOCATIONS BASED ON NUMBER OF CRASHES

The simplest method used in this report for establishing a high crash list is ranking intersections based on the largest number of crashes. The intersection with the greatest number of crashes receives the number one ranking.

TOP LOCATIONS BASED ON EQUIVALENT PROPERTY DAMAGE ONLY

The inclusion of severity information in the MassDOT data allows for the calculation of Equivalent Property Damage Only (EPDO). A list ranked by EPDO will bring more attention to locations where the accidents have produced injuries or fatalities. The formula for calculating EPDO is as follows:

$$\text{EPDO} = 10 \times (\# \text{ fatal crashes}) + 5 \times (\# \text{ injury crashes}) + \text{property damage only crashes}$$

While the EPDO method is useful in identifying intersections with the most severe crashes, it should be noted that not all crashes and their resultant injuries can be attributed to a road's conditions or geometry. For example, a passenger's decision of whether or not to wear a seatbelt may determine whether an injury will be experienced. The intersection with the highest EPDO in this list is ranked number one.

TOP LOCATIONS BASED ON CRASH RATE

It is expected that a road with higher traffic volumes will experience more vehicles crashes. Using a crash rate helps to avoid highlighting intersections whose problems may be magnified by a large traffic volume. With this methodology, the number of crashes is compared to the number of vehicles entering, and the resultant figure is in terms of crashes per million entering vehicles. To be certain to capture the top fifty crash

locations based on crash rate, the top 100 intersections based on number of crashes were analyzed with the following formula:

$$R = ([C/Y] \times 1,000,000)/(V \times 365)$$

R = Crash Rate, C = Total Crashes, Y = # Years Analyzed, V = Daily Entering Volume

While this method is good for reducing the influence of high volume roads, it also has the capacity to rank a very low volume road with few crashes very highly. The intersection with the highest crash rate in this list is ranked number one.

TOP LOCATIONS BASED ON EPDO RATE

This method uses the same theory as the crash rate, where there is an assumption that heavily traveled roads are expected to have higher EPDO designations, and it is not necessarily indicative of poor road conditions or geometric flaws. To create this list, the intersections' EPDO is compared to the number of vehicles entering, and the resultant figure is in terms of crashes per million entering vehicles. To be certain to capture the top fifty crash locations based on EPDO rate, the top 100 locations with the highest EPDO were analyzed with the following formula:

$$\text{EPDO Rate} = ([\text{EPDO}/Y] \times 1,000,000)/(V \times 365)$$

Y = # Years Analyzed, V = Daily Entering Volume

The intersection with the highest EPDO rate in this list is ranked number one.

TRAFFIC VOLUME DATA

CAPE COD COMMISSION TRAFFIC COUNTING PROGRAM

To determine the crash rate and the EPDO rate, traffic volume data were needed to calculate a daily entering volume for each intersection. Base traffic data were taken from counts conducted by the Cape Cod Commission adjusted to the year 2019 (as found on www.capecodcommission.org/counts).

TRIP GENERATION HANDBOOK

Several intersections in need of investigation included an approach from a commercial or institutional establishment where traffic data was unavailable from the Commission count database or the regional model. Using the Trip Generation Manual, 10th Edition from the Institute of Transportation Engineers, traffic volumes were estimated for those legs.

ENTERING VOLUME CALCULATION

The daily entering volume is calculated as an average annual daily volume. Since the majority of Commission-conducted traffic counts take place in the summer months, an appropriate seasonal factor (dependent on the month and year) is applied to achieve the annual average. Likewise, the results from the regional model are annual averages. Annual averages were deemed appropriate for use since the crash data covers all twelve months.

The formula for calculating the daily entering volume for an intersection consist of aggregating the average annual daily traffic (AADT) for each leg of the intersection, then dividing that total by two.

Limitations

With a statewide average of over 100,000 crashes per year, it is difficult to report and locate all incidents accurately. To address the inefficiencies, in 2001, MassHighway (MassDOT's precursor) and the RMV made several significant changes to the crash reporting process. Their intent was to make the process more efficient and reduce the time it takes for information to reach the state offices. The changes that took place included new forms and new data input systems.

Cape-wide yearly crash averages had a significant change since the new reporting system was put in place. In the three years leading up to the change (1999, 2000, and 2001), Barnstable County averaged 5,174 crashes per year. In the following three years, the county averaged 3,928 crashes per year (a 24% reduction). Of the fifteen towns, only two towns averaged more crashes following the reporting changes. Three towns averaged less than 50% of their pre-change crash average.

One-year crash averages for the years from 2005 to 2011 remained equally below the pre-change average (4,056, or 78%). Not enough evidence exists to determine if this is a direct result of the change in reporting. It is possible crashes have indeed been reduced since 2001. It should be noted that Cape-wide traffic has reduced by about 8.6% between 2001 and 2011.

In recent years, some towns have shown sizable increases in crash numbers from one year to another. This is often the result of a local police department's change to an electronic crash reporting system (where crash reports are sent electronically to the RMV, rather than by physical paper copies). Electronic crash reporting has proved to be a more efficient method.

While new methods of crash reporting have been introduced, it is safe to assume many unreported crashes occur each year. In many cases, if a minor collision occurs and there is no property damage or injuries many drivers settle the crash on their own terms and do not involve the police or report the incident.

High Crash Location Lists



In each of the following four high crash location lists, locations are denoted with an index number within brackets (e.g., “[1]”). Each number corresponds to a number in the “Note #” column in the tables of Intersection Notes following the high crash location lists. The Notes table provides information relevant to studies that may have been performed, past or planned construction, or other changes that may influence an intersection’s frequency of crashes.

Route 6 interchanges and circular intersections on Cape Cod were excluded from these lists, but individual lists were made for both based on the number of crashes during the same 5-year period. The following six tables present the rankings for the various ranking criteria:

- Top Locations based on Number of Crashes
- Top Locations based on Equivalent Property Damage Only
- Top Locations based on Crash Rate
- Top Locations based on EPDO Rate
- Top Route 6 Interchange Locations based on Number of Crashes
- Top Circular Intersections based on Number of Crashes

TOP LOCATIONS BASED ON NUMBER OF CRASHES

Rank Crashes	Town	Location	Crash Count	EPDO	Crash Rate	EPDO Rate
1	Dennis	Route 134 (East-West Dennis Road) at Patriot Square/Market Place [6]	170	254	3.6	5.4
2	Barnstable	Route 28 (Falmouth Road) and Bearses Way [4]	153	285	3.2	5.9
3	Barnstable	Route 28 (Iyannough Road) at Yarmouth Road [5]	136	260	3.0	5.7
4	Yarmouth	Route 28 at Old Main Street/North Main Street [3]	106	212	3.7	7.5
5	Dennis	Route 134 (East-West Dennis Road) at Upper County Road [14]	105	181	2.6	4.4
6	Falmouth	Route 28 (East Falmouth Highway) at Old Meeting House Road/Davisville Road [2]	104	216	3.7	7.6
7	Barnstable	Route 132 (Iyannough Road) at Bearses Way [16]	98	194	2.1	4.2
8	Dennis	Route 134 (East-West Dennis Road) at Theophilus F. Smith Road [35]	87	131	2.2	3.3
9	Barnstable	Route 132 (Iyannough Road) at Cape Cod Mall/Capetown Plaza [46]	80	140	1.6	2.8
10	Mashpee	Route 151 (Nathan Ellis Highway) at Old Barnstable Road [30]	73	145	1.8	3.5
11	Falmouth	Route 28 (Falmouth Road) at Trotting Park Road [8]	66	106	3.1	4.9
12	Barnstable	Route 28 (Falmouth Road) at Osterville-West Barnstable Road [27]	64	136	1.7	3.6
13	Falmouth	Route 151 (Nathan Ellis Highway) at Sandwich Road [7]	63	179	1.8	5.0
14	Barnstable	Route 28 (Falmouth Road) at Old Stage Road/Camp Opoechee Road [50]	61	141	1.2	2.8
15	Barnstable	Route 28 (Falmouth Road) at Putnam Avenue [39]	58	110	1.7	3.2
16	Barnstable	Route 28 (Falmouth Road) at Cotuit Road/Prince Avenue [41]	58	134	1.3	3.1
17	Barnstable	Route 132 (Iyannough Road) at Independence Drive [49]	55	123	1.3	2.8
18	Barnstable	Route 28 (Falmouth Road) and Pitchers Way [10]	52	165	1.5	4.6
19	Bourne	Meetinghouse Lane at State Road/Canal Street [24]	52	92	2.1	3.8
20	Mashpee	Route 151 (Nathan Ellis Highway) at Job's Fishing Road [34]	51	115	1.5	3.3
21	Barnstable	Route 132 (Iyannough Road) at Phinneys Lane [95]	51	95	0.8	1.5
22	Falmouth	Route 28 (Davis Straits) at Dillingham Avenue/Spring Bars Road [22]	48	80	2.3	3.9
23	Yarmouth	Route 28 at East Main Street [75]	46	74	1.2	2.0
24	Barnstable	Route 28 (Falmouth Road) at Strawberry Hill Road [36]	46	94	1.6	3.2
25	Dennis	Route 28 (Main Street) at Route 134 (East-West Dennis Road)/Swan River Road [67]	46	66	1.5	2.2
26	Bourne	Route 6 (Scenic Highway) at Nightingale Road [89]	46	78	1.0	1.7
27	Yarmouth	Station Avenue at White's Path/Workshop Road [88]	45	77	1.0	1.7
28	Barnstable	Route 28 (Falmouth Road) at Phinneys Lane [57]	44	108	1.1	2.6
29	Barnstable	Route 28 (Falmouth Road) at Mary Dunn Way [52]	44	96	1.3	2.8
30	Harwich	Route 39 (Orleans-Harwich Road) at Pleasant Bay Road [1]	44	124	3.4	9.6
31	Falmouth	Route 28 (Main Street) at Scranton Avenue [33]	43	79	1.8	3.4
32	Mashpee	Route 151 (Nathan Ellis Highway) at Ninigret Avenue [53]	43	87	1.4	2.8
33	Barnstable	West Main Street at Barnstable High School Entrance [18]	42	86	2.0	4.1
34	Barnstable	Route 28 (Falmouth Road) at Centerville Shopping Center [90]	42	90	0.8	1.7
35	Mashpee	Route 28 (Falmouth Road) at Orchard Road/Asher's Path [66]	41	65	1.4	2.2
36	Falmouth	Route 28 (Palmer Avenue) at Jones Road/Ter Heun Drive [51]	40	80	1.4	2.8
37	Mashpee	Route 151 (Nathan Ellis Highway) at Market Street [70]	40	68	1.2	2.1
38	Barnstable	South Street at Ocean Street/Old Colony Road [32]	40	88	1.5	3.4
39	Dennis	Route 134 (East-West Dennis Road) at Bob Crowell Road/Hemlock Lane [74]	40	76	1.1	2.0
40	Yarmouth	Route 28 at Higgins Crowell Road/Berry Avenue [45]	38	82	1.3	2.8
41	Sandwich	Quaker Meeting House Road at Cotuit Road [68]	38	62	1.3	2.2
42	Mashpee	Route 151 (Nathan Ellis Highway) at Algonquin Avenue [25]	38	94	1.5	3.8
43	Mashpee	Route 130 (Main Street) at Great Neck Road N [31]	38	70	1.9	3.5
44	Wellfleet	Route 6 at Main Street [55]	38	66	1.6	2.7
45	Falmouth	Route 151 (Nathan Ellis Highway) at Currier Road [42]	37	110	1.0	3.0
46	Falmouth	Jones Road at Gifford Street [47]	36	76	1.3	2.8
47	Barnstable	Route 28 (Falmouth Road) at Lincoln Road [11]	36	96	1.7	4.6
48	Mashpee	Route 28 at Job's Fishing Road/Donna's Lane [98]	35	67	0.8	1.4
49	Falmouth	Spring Bars Road at Worcester Court [12]	35	71	2.2	4.5
50	Barnstable	Route 28 (Falmouth Road) at Bell Tower Mall [99]	35	75	0.7	1.4

TOP LOCATIONS BASED ON EQUIVALENT PROPERTY DAMAGE ONLY

Rank EPDO	Town	Location	Crash Count	EPDO	Crash Rate	EPDO Rate
1	Barnstable	Route 28 (Falmouth Road) and Bearses Way [4]	153	285	3.2	5.9
2	Barnstable	Route 28 (Iyannough Road) at Yarmouth Road [5]	136	260	3.0	5.7
3	Dennis	Route 134 (East-West Dennis Road) at Patriot Square/Market Place [6]	170	254	3.6	5.4
4	Falmouth	Route 28 (East Falmouth Highway) at Old Meeting House Road/Davisville Road [2]	104	216	3.7	7.6
5	Yarmouth	Route 28 at Old Main Street/North Main Street [3]	106	212	3.7	7.5
6	Barnstable	Route 132 (Iyannough Road) at Bearses Way [16]	98	194	2.1	4.2
7	Dennis	Route 134 (East-West Dennis Road) at Upper County Road [14]	105	181	2.6	4.4
8	Falmouth	Route 151 (Nathan Ellis Highway) at Sandwich Road [7]	63	179	1.8	5.0
9	Barnstable	Route 28 (Falmouth Road) and Pitchers Way [10]	52	165	1.5	4.6
10	Mashpee	Route 151 (Nathan Ellis Highway) at Old Barnstable Road [30]	73	145	1.8	3.5
11	Barnstable	Route 28 (Falmouth Road) at Old Stage Road/Camp Opoechee Road [50]	61	141	1.2	2.8
12	Barnstable	Route 132 (Iyannough Road) at Cape Cod Mall/Capetown Plaza [46]	80	140	1.6	2.8
13	Barnstable	Route 28 (Falmouth Road) at Osterville-West Barnstable Road [27]	64	136	1.7	3.6
14	Barnstable	Route 28 (Falmouth Road) at Cotuit Road/Prince Avenue [41]	58	134	1.3	3.1
15	Dennis	Route 134 (East-West Dennis Road) at Theophilus F. Smith Road [35]	87	131	2.2	3.3
16	Harwich	Route 39 (Orleans-Harwich Road) at Pleasant Bay Road [1]	44	124	3.4	9.6
17	Barnstable	Route 132 (Iyannough Road) at Independence Drive [49]	55	123	1.3	2.8
18	Mashpee	Route 151 (Nathan Ellis Highway) at Job's Fishing Road [34]	51	115	1.5	3.3
19	Barnstable	Route 28 (Falmouth Road) at Putnam Avenue [39]	58	110	1.7	3.2
20	Falmouth	Route 151 (Nathan Ellis Highway) at Currier Road [42]	37	110	1.0	3.0
21	Barnstable	Route 28 (Falmouth Road) at Phinneys Lane [57]	44	108	1.1	2.6
22	Falmouth	Route 28 (Falmouth Road) at Trotting Park Road [8]	66	106	3.1	4.9
23	Barnstable	Route 28 (Falmouth Road) at Mary Dunn Way [52]	44	96	1.3	2.8
24	Barnstable	Route 28 (Falmouth Road) at Lincoln Road [11]	36	96	1.7	4.6
25	Barnstable	Route 132 (Iyannough Road) at Phinneys Lane [95]	51	95	0.8	1.5
26	Mashpee	Route 151 (Nathan Ellis Highway) at Algonquin Avenue [25]	38	94	1.5	3.8
27	Barnstable	Route 28 (Falmouth Road) at Strawberry Hill Road [36]	46	94	1.6	3.2
28	Bourne	Meetinghouse Lane at State Road/Canal Street [24]	52	92	2.1	3.8
29	Barnstable	Route 28 (Falmouth Road) at Centerville Shopping Center [90]	42	90	0.8	1.7
30	Mashpee	Great Neck Road N at Old Barnstable Road [23]	28	88	1.2	3.8
31	Barnstable	South Street at Ocean Street/Old Colony Road [32]	40	88	1.5	3.4
32	Falmouth	Sandwich Road at Brick Kiln Road [26]	31	87	1.3	3.7
33	Mashpee	Route 151 (Nathan Ellis Highway) at Ninigret Avenue [53]	43	87	1.4	2.8
34	Barnstable	Route 132 (Iyannough Road) at Shootflying Hill Road [82]	34	86	0.7	1.9
35	Barnstable	West Main Street at Barnstable High School Entrance [18]	42	86	2.0	4.1
36	Yarmouth	Route 28 at Camp Street [69]	32	84	0.8	2.2
37	Barnstable	Route 132 (Iyannough Road) at Attucks Lane [96]	31	84	0.6	1.5
38	Barnstable	Route 28 (Falmouth Road) at Stub Toe Road [73]	29	82	0.7	2.1
39	Yarmouth	Route 28 at Higgins Crowell Road/Berry Avenue [45]	38	82	1.3	2.8
40	Falmouth	Route 28 (Palmer Avenue) at Jones Road/Ter Heun Drive [51]	40	80	1.4	2.8
41	Falmouth	Route 28 (Davis Straits) at Dillingham Avenue/Spring Bars Road [22]	48	80	2.3	3.9
42	Barnstable	Phinneys Lane at Old Strawberry Hill Road [9]	23	79	1.4	4.9
43	Falmouth	Route 28 (Main Street) at Scranton Avenue [33]	43	79	1.8	3.4
44	Barnstable	Route 28 (Falmouth Road) at Lumbert Mill Road [77]	34	78	0.8	1.9
45	Bourne	Route 6 (Scenic Highway) at Nightingale Road [89]	46	78	1.0	1.7
46	Yarmouth	Station Avenue at White's Path/Workshop Road [88]	45	77	1.0	1.7
47	Barnstable	West Main Street at Pitchers Way [71]	33	77	0.9	2.1
48	Falmouth	Jones Road at Gifford Street [47]	36	76	1.3	2.8
49	Dennis	Route 134 (East-West Dennis Road) at Bob Crowell Road/Hemlock Lane [74]	40	76	1.1	2.0
50	Barnstable	Route 28 (Falmouth Road) at Bell Tower Mall [99]	35	75	0.7	1.4

TOP LOCATIONS BASED ON CRASH RATE (PER MILLION ENTERING VEHICLES)

Rank	Town	Location	Crash Count	EPDO	Crash Rate	EPDO Rate
1	Yarmouth	Route 28 at Old Main Street/North Main Street [3]	106	212	3.7	7.5
2	Falmouth	Route 28 (East Falmouth Highway) at Old Meeting House Road/Davisville Road [2]	104	216	3.7	7.6
3	Dennis	Route 134 (East-West Dennis Road) at Patriot Square/Market Place [6]	170	254	3.6	5.4
4	Harwich	Route 39 (Orleans-Harwich Road) at Pleasant Bay Road [1]	44	124	3.4	9.6
5	Barnstable	Route 28 (Falmouth Road) and Bearses Way [4]	153	285	3.2	5.9
6	Falmouth	Route 28 (Falmouth Road) at Trotting Park Road [8]	66	106	3.1	4.9
7	Barnstable	Route 28 (Iyannough Road) at Yarmouth Road [5]	136	260	3.0	5.7
8	Dennis	Route 134 (East-West Dennis Road) at Upper County Road [14]	105	181	2.6	4.4
9	Brewster	Route 124 (Harwich Road) at Tubman Road [19]	23	39	2.4	4.0
10	Falmouth	Route 28 (Davis Straits) at Dillingham Avenue/Spring Bars Road [22]	48	80	2.3	3.9
11	Falmouth	Spring Bars Road at Worcester Court [12]	35	71	2.2	4.5
12	Dennis	Route 134 (East-West Dennis Road) at Theophilus F. Smith Road [35]	87	131	2.2	3.3
13	Yarmouth	Forest Road at Old Town House Road [37]	32	48	2.1	3.2
14	Bourne	Meetinghouse Lane at State Road/Canal Street [24]	52	92	2.1	3.8
15	Barnstable	Route 132 (Iyannough Road) at Bearses Way [16]	98	194	2.1	4.2
16	Barnstable	South Street at High School Road [15]	31	63	2.1	4.3
17	Barnstable	Route 132 (Iyannough Road) at Cape Cod Community College N. Entrance [17]	23	47	2.0	4.2
18	Barnstable	West Main Street at Barnstable High School Entrance [18]	42	86	2.0	4.1
19	Barnstable	Stevens Street at Bassett Lane [13]	29	65	2.0	4.4
20	Barnstable	Barnstable Road at Charles Street/Center Street [29]	30	54	2.0	3.5
21	Mashpee	Route 130 (Main Street) at Great Neck Road N [31]	38	70	1.9	3.5
22	Falmouth	Route 28 (Main Street) at Scranton Avenue [33]	43	79	1.8	3.4
23	Mashpee	Great Neck Road N at Quashnet Road [38]	30	54	1.8	3.2
24	Falmouth	Route 151 (Nathan Ellis Highway) at Sandwich Road [7]	63	179	1.8	5.0
25	Mashpee	Route 151 (Nathan Ellis Highway) at Old Barnstable Road [30]	73	145	1.8	3.5
26	Barnstable	Route 28 (Falmouth Road) at Lincoln Road [11]	36	96	1.7	4.6
27	Barnstable	Main Street at High School Road Extension [43]	28	48	1.7	2.9
28	Barnstable	Route 28 (Falmouth Road) at Osterville-West Barnstable Road [27]	64	136	1.7	3.6
29	Barnstable	Route 28 (Falmouth Road) at Putnam Avenue [39]	58	110	1.7	3.2
30	Barnstable	Route 132 (Iyannough Road) at Cape Cod Mall/Capetown Plaza [46]	80	140	1.6	2.8
31	Barnstable	Route 28 (Falmouth Road) at Strawberry Hill Road [36]	46	94	1.6	3.2
32	Wellfleet	Route 6 at Main Street [55]	38	66	1.6	2.7
33	Barnstable	South Street at Ocean Street/Old Colony Road [32]	40	88	1.5	3.4
34	Dennis	Route 28 (Main Street) at Route 134 (East-West Dennis Road)/Swan River Road [67]	46	66	1.5	2.2
35	Mashpee	Route 151 (Nathan Ellis Highway) at Algonquin Avenue [25]	38	94	1.5	3.8
36	Sandwich	Route 6A (Old King's Highway) at Route 130/Tupper Road [28]	26	62	1.5	3.5
37	Mashpee	Route 151 (Nathan Ellis Highway) at Job's Fishing Road [34]	51	115	1.5	3.3
38	Falmouth	Route 151 (Nathan Ellis Highway) at Cloverfields Way/Sam Turner Road/Boxberry Hill Road [20]	21	57	1.5	4.0
39	Barnstable	Route 28 (Falmouth Road) and Pitchers Way [10]	52	165	1.5	4.6
40	Barnstable	Phinneys Lane at Old Strawberry Hill Road [9]	23	79	1.4	4.9
41	Dennis	Route 28 (Main Street) at Depot Street [40]	26	58	1.4	3.2
42	Mashpee	Route 28 (Falmouth Road) at Orchard Road/Asher's Path [66]	41	65	1.4	2.2
43	Falmouth	Route 28 (Palmer Avenue) at Jones Road/Ter Heun Drive [51]	40	80	1.4	2.8
44	Mashpee	Route 151 (Nathan Ellis Highway) at Ninigret Avenue [53]	43	87	1.4	2.8
45	Sandwich	Quaker Meeting House Road at Cotuit Road [68]	38	62	1.3	2.2
46	Falmouth	Jones Road at Gifford Street [47]	36	76	1.3	2.8
47	Sandwich	Route 6A at Quacker Meeting House Road/Spring Hill Road [63]	28	48	1.3	2.3
48	Barnstable	Route 28 (Falmouth Road) at Cotuit Road/Prince Avenue [41]	58	134	1.3	3.1
49	Falmouth	Sandwich Road at Brick Kiln Road [26]	31	87	1.3	3.7
50	Yarmouth	Route 28 at Higgins Crowell Road/Berry Avenue [45]	38	82	1.3	2.8

TOP LOCATIONS BASED ON EPDO RATE (PER MILLION ENTERING VEHICLES)

Rank EPDO/ MEV	Town	Location	Crash Count	EPDO	Crash Rate	EPDO Rate
1	Harwich	Route 39 (Orleans-Harwich Road) at Pleasant Bay Road [1]	44	124	3.4	9.6
2	Falmouth	Route 28 (East Falmouth Highway) at Old Meeting House Road/Davisville Road [2]	104	216	3.7	7.6
3	Yarmouth	Route 28 at Old Main Street/North Main Street [3]	106	212	3.7	7.5
4	Barnstable	Route 28 (Falmouth Road) and Bearses Way [4]	153	285	3.2	5.9
5	Barnstable	Route 28 (Iyannough Road) at Yarmouth Road [5]	136	260	3.0	5.7
6	Dennis	Route 134 (East-West Dennis Road) at Patriot Square/Market Place [6]	170	254	3.6	5.4
7	Falmouth	Route 151 (Nathan Ellis Highway) at Sandwich Road [7]	63	179	1.8	5.0
8	Falmouth	Route 28 (Falmouth Road) at Trotting Park Road [8]	66	106	3.1	4.9
9	Barnstable	Phinneys Lane at Old Strawberry Hill Road [9]	23	79	1.4	4.9
10	Barnstable	Route 28 (Falmouth Road) and Pitchers Way [10]	52	165	1.5	4.6
11	Barnstable	Route 28 (Falmouth Road) at Lincoln Road [11]	36	96	1.7	4.6
12	Falmouth	Spring Bars Road at Worcester Court [12]	35	71	2.2	4.5
13	Barnstable	Stevens Street at Bassett Lane [13]	29	65	2.0	4.4
14	Dennis	Route 134 (East-West Dennis Road) at Upper County Road [14]	105	181	2.6	4.4
15	Barnstable	South Street at High School Road [15]	31	63	2.1	4.3
16	Barnstable	Route 132 (Iyannough Road) at Bearses Way [16]	98	194	2.1	4.2
17	Barnstable	Route 132 (Iyannough Road) at Cape Cod Community College N. Entrance [17]	23	47	2.0	4.2
18	Barnstable	West Main Street at Barnstable High School Entrance [18]	42	86	2.0	4.1
19	Brewster	Route 124 (Harwich Road) at Tubman Road [19]	23	39	2.4	4.0
20	Falmouth	Route 151 (Nathan Ellis Highway) at Cloverfields Way/Sam Turner Road/Boxberry Hill Road [20]	21	57	1.5	4.0
21	Falmouth	Old Barnstable Road at Carriage Shop Road [21]	18	62	1.1	3.9
22	Falmouth	Route 28 (Davis Straits) at Dillingham Avenue/Spring Bars Road [22]	48	80	2.3	3.9
23	Mashpee	Great Neck Road N at Old Barnstable Road [23]	28	88	1.2	3.8
24	Bourne	Meetinghouse Lane at State Road/Canal Street [24]	52	92	2.1	3.8
25	Mashpee	Route 151 (Nathan Ellis Highway) at Algonquin Avenue [25]	38	94	1.5	3.8
26	Falmouth	Sandwich Road at Brick Kiln Road [26]	31	87	1.3	3.7
27	Barnstable	Route 28 (Falmouth Road) at Osterville-West Barnstable Road [27]	64	136	1.7	3.6
28	Sandwich	Route 6A (Old King's Highway) at Route 130/Tupper Road [28]	26	62	1.5	3.5
29	Barnstable	Barnstable Road at Charles Street/Center Street [29]	30	54	2.0	3.5
30	Mashpee	Route 151 (Nathan Ellis Highway) at Old Barnstable Road [30]	73	145	1.8	3.5
31	Mashpee	Route 130 (Main Street) at Great Neck Road N [31]	38	70	1.9	3.5
32	Barnstable	South Street at Ocean Street/Old Colony Road [32]	40	88	1.5	3.4
33	Falmouth	Route 28 (Main Street) at Scranton Avenue [33]	43	79	1.8	3.4
34	Mashpee	Route 151 (Nathan Ellis Highway) at Job's Fishing Road [34]	51	115	1.5	3.3
35	Dennis	Route 134 (East-West Dennis Road) at Theophilus F. Smith Road [35]	87	131	2.2	3.3
36	Barnstable	Route 28 (Falmouth Road) at Strawberry Hill Road [36]	46	94	1.6	3.2
37	Yarmouth	Forest Road at Old Town House Road [37]	32	48	2.1	3.2
38	Mashpee	Great Neck Road N at Quashnet Road [38]	30	54	1.8	3.2
39	Barnstable	Route 28 (Falmouth Road) at Putnam Avenue [39]	58	110	1.7	3.2
40	Dennis	Route 28 (Main Street) at Depot Street [40]	26	58	1.4	3.2
41	Barnstable	Route 28 (Falmouth Road) at Cotuit Road/Prince Avenue [41]	58	134	1.3	3.1
42	Falmouth	Route 151 (Nathan Ellis Highway) at Currier Road [42]	37	110	1.0	3.0
43	Barnstable	Main Street at High School Road Extension [43]	28	48	1.7	2.9
44	Yarmouth	West Yarmouth Road at Buck Island Road [44]	22	59	1.1	2.9
45	Yarmouth	Route 28 at Higgins Crowell Road/Berry Avenue [45]	38	82	1.3	2.8
46	Barnstable	Route 132 (Iyannough Road) at Cape Cod Mall/Capetown Plaza [46]	80	140	1.6	2.8
47	Falmouth	Jones Road at Gifford Street [47]	36	76	1.3	2.8
48	Falmouth	Route 28 (Waquoit Highway) at Metoxit Road [48]	20	60	0.9	2.8
49	Barnstable	Route 132 (Iyannough Road) at Independence Drive [49]	55	123	1.3	2.8
50	Barnstable	Route 28 (Falmouth Road) at Old Stage Road/Camp Opoechee Road [50]	61	141	1.2	2.8

INDEX OF INTERSECTION NOTES (P. 1 OF 3)

Note	Location	Town	Rank EPDO/MEV	Rank Crashes/MEV	Rank EPDO	Rank Crashes	Comment
1	Route 39 (Orleans-Harwich Road) at Pleasant Bay Road [1]	Harwich	1	4	16	30	2016 RSA; New striping and sightline clearing in 2016
2	Route 28 (East Falmouth Highway) at Old Meeting House Road/Davisville Road [2]	Falmouth	2	2	4	6	Major intersection reconstruction 2013 TIP
3	Route 28 at Old Main Street/North Main Street [3]	Yarmouth	3	1	5	4	RSA 2016, Major intersection reconstruction planned- 2022 TIP
4	Route 28 (Falmouth Road) and Bearses Way [4]	Barnstable	4	5	1	2	Major intersection reconstruction began in 2017
5	Route 28 (Iyannough Road) at Yarmouth Road [5]	Barnstable	5	7	2	3	Major intersection reconstruction planned- 2020 TIP
6	Route 134 (East-West Dennis Road) at Patriot Square/Market Place [6]	Dennis	6	3	3	1	Planned 2019 CCC Corridor Study
7	Route 151 (Nathan Ellis Highway) at Sandwich Road [7]	Falmouth	7	24	8	13	Potential improvements identified in 2018 RSA
8	Route 28 (Falmouth Road) at Trotting Park Road [8]	Falmouth	8	6	22	11	Future TIP project brought forward by Town
9	Phinneys Lane at Old Strawberry Hill Road [9]	Barnstable	9	40	42	-	
10	Route 28 (Falmouth Road) and Pitchers Way [10]	Barnstable	10	39	9	18	Potential improvements identified in 2016 CCC Corridor Study
11	Route 28 (Falmouth Road) at Lincoln Road [11]	Barnstable	11	26	24	47	Potential improvements identified in 2016 CCC Corridor Study
12	Spring Bars Road at Worcester Court [12]	Falmouth	12	11	-	49	CCC Spring Bars report analysis 2013
13	Stevens Street at Bassett Lane [13]	Barnstable	13	19	-	-	
14	Route 134 (East-West Dennis Road) at Upper County Road [14]	Dennis	14	8	7	5	Reconstructed in 2014
15	South Street at High School Road [15]	Barnstable	15	16	-	-	
16	Route 132 (Iyannough Road) at Bearses Way [16]	Barnstable	16	15	6	7	Reconstructed in 2012, emergency vehicle pre-emption added in 2017
17	Route 132 (Iyannough Road) at Cape Cod Community College N. Entrance [17]	Barnstable	17	17	-	-	Crossing improvements in 2019
18	West Main Street at Barnstable High School Entrance [18]	Barnstable	18	18	35	33	
19	Route 124 (Harwich Road) at Tubman Road [19]	Brewster	19	9	-	-	
20	Route 151 (Nathan Ellis Highway) at Cloverfields Way/Sam Turner Road/Boxberry Hill Road [20]	Falmouth	20	38	-	-	RSA 2018
21	Old Barnstable Road at Carriage Shop Road [21]	Falmouth	21	-	-	-	
22	Route 28 (Davis Straits) at Dillingham Avenue/Spring Bars Road [22]	Falmouth	22	10	41	22	CCC Spring Bars report analysis 2013, Future TIP project brought forward by Town of Falmouth
23	Great Neck Road N at Old Barnstable Road [23]	Mashpee	23	-	30	-	
24	Meetinghouse Lane at State Road/Canal Street [24]	Bourne	24	14	28	19	
25	Route 151 (Nathan Ellis Highway) at Algonquin Avenue [25]	Mashpee	25	35	26	42	RSA 2018

INDEX OF INTERSECTION NOTES (P. 2 OF 3)

Note	Location	Town	Rank EPDO/MEV	Rank Crashes/MEV	Rank EPDO	Rank Crashes	Comment
26	Sandwich Road at Brick Kiln Road [26]	Falmouth	26	49	32	-	
27	Route 28 (Falmouth Road) at Osterville-West Barnstable Road [27]	Barnstable	27	28	13	12	RSA 2012
28	Route 6A (Old King's Highway) at Route 130/Tupper Road [28]	Sandwich	28	36	-	-	
29	Barnstable Road at Charles Street/Center Street [29]	Barnstable	29	20	-	-	
30	Route 151 (Nathan Ellis Highway) at Old Barnstable Road [30]	Mashpee	30	25	10	10	RSA 2014; 2021 TIP
31	Route 130 (Main Street) at Great Neck Road N [31]	Mashpee	31	21	-	43	
32	South Street at Ocean Street/Old Colony Road [32]	Barnstable	32	33	31	38	
33	Route 28 (Main Street) at Scranton Avenue [33]	Falmouth	33	22	43	31	Future TIP project brought forward by Town of Falmouth
34	Route 151 (Nathan Ellis Highway) at Job's Fishing Road [34]	Mashpee	34	37	18	20	RSA 2018
35	Route 134 (East-West Dennis Road) at Theophilus F. Smith Road [35]	Dennis	35	12	15	8	Cumberland Farms drive reconfiguration 2012 and planned CCC Corridor Study 2019
36	Route 28 (Falmouth Road) at Strawberry Hill Road [36]	Barnstable	36	31	27	24	RSA 2015
37	Forest Road at Old Town House Road [37]	Yarmouth	37	13	-	-	
38	Great Neck Road N at Quashnet Road [38]	Mashpee	38	23	-	-	
39	Route 28 (Falmouth Road) at Putnam Avenue [39]	Barnstable	39	29	19	15	
40	Route 28 (Main Street) at Depot Street [40]	Dennis	40	41	-	-	CCC Report "Dennisport - Analysis of High-Crash Location" 2012
41	Route 28 (Falmouth Road) at Cotuit Road/Prince Avenue [41]	Barnstable	41	48	14	16	
42	Route 151 (Nathan Ellis Highway) at Currier Road [42]	Falmouth	42	-	20	45	RSA 2018
43	Main Street at High School Road Extension [43]	Barnstable	43	27	-	-	
44	West Yarmouth Road at Buck Island Road [44]	Yarmouth	44	-	-	-	
45	Route 28 at Higgins Crowell Road/Berry Avenue [45]	Yarmouth	45	50	39	40	
46	Route 132 (Iyannough Road) at Cape Cod Mall/Capetown Plaza [46]	Barnstable	46	30	12	9	
47	Jones Road at Gifford Street [47]	Falmouth	47	46	48	46	
48	Route 28 (Waquoit Highway) at Metoxit Road [48]	Falmouth	48	-	-	-	
49	Route 132 (Iyannough Road) at Independence Drive [49]	Barnstable	49	-	17	17	Pedestrian upgrades and emergency vehicle pre-emption added in 2017
50	Route 28 (Falmouth Road) at Old Stage Road/Camp Opoechee Road [50]	Barnstable	50	-	11	14	

INDEX OF INTERSECTION NOTES (P. 3 OF 3)

Note	Location	Town	Rank EPDO/MEV	Rank Crashes/MEV	Rank EPDO	Rank Crashes	Comment
51	Route 28 (Palmer Avenue) at Jones Road/Ter Heun Drive [51]	Falmouth	-	43	40	36	
52	Route 28 (Falmouth Road) at Mary Dunn Way [52]	Barnstable	-	-	23	29	2019 TIP (with Route 28 at Yarmouth Road project)
53	Route 151 (Nathan Ellis Highway) at Ninigret Avenue [53]	Mashpee	-	44	33	32	RSA 2018
55	Route 6 at Main Street [55]	Wellfleet	-	32	-	44	2023 TIP
57	Route 28 (Falmouth Road) at Phinneys Lane [57]	Barnstable	-	-	21	28	2016 CCC Corridor Study
63	Route 6A at Quacker Meeting House Road/Spring Hill Road [63]	Sandwich	-	47	-	-	
66	Route 28 (Falmouth Road) at Orchard Road/Asher's Path [66]	Mashpee	-	42	-	35	
67	Route 28 (Main Street) at Route 134 (East-West Dennis Road)/Swan River Road [67]	Dennis	-	34	-	25	
68	Quaker Meeting House Road at Cotuit Road [68]	Sandwich	-	45	-	41	
69	Route 28 at Camp Street [69]	Yarmouth	-	-	36	-	
70	Route 151 (Nathan Ellis Highway) at Market Street [70]	Mashpee	-	-	-	37	
71	West Main Street at Pitchers Way [71]	Barnstable	-	-	47	-	
73	Route 28 (Falmouth Road) at Stub Toe Road [73]	Barnstable	-	-	38	-	
74	Route 134 (East-West Dennis Road) at Bob Crowell Road/Hemlock Lane [74]	Dennis	-	-	49	39	Planned 2019 CCC Corridor Study
75	Route 28 at East Main Street [75]	Yarmouth	-	-	-	23	
77	Route 28 (Falmouth Road) at Lumbert Mill Road [77]	Barnstable	-	-	44	-	Signal added in 2011
82	Route 132 (Iyannough Road) at Shootflying Hill Road [82]	Barnstable	-	-	34	-	Emergency vehicle pre-emption added in 2017
88	Station Avenue at White's Path/Workshop Road [88]	Yarmouth	-	-	46	27	
89	Route 6 (Scenic Highway) at Nightingale Road [89]	Bourne	-	-	45	26	MassDOT Canal Area Study 2019
90	Route 28 (Falmouth Road) at Centerville Shopping Center [90]	Barnstable	-	-	29	34	2016 CCC Corridor Study
95	Route 132 (Iyannough Road) at Phinneys Lane [95]	Barnstable	-	-	25	21	Emergency vehicle pre-emption added in 2017
96	Route 132 (Iyannough Road) at Attucks Lane [96]	Barnstable	-	-	37	-	Emergency vehicle pre-emption added in 2017
98	Route 28 at Job's Fishing Road/Donna's Lane [98]	Mashpee	-	-	-	48	Pedestrian upgrades and flashing yellow arrow 2019
99	Route 28 (Falmouth Road) at Bell Tower Mall [99]	Barnstable	-	-	50	50	2016 CCC Corridor Study

Notes: RSA = Road Safety Audit; TIP = Transportation Improvement Program

CCC = Cape Cod Commission

TOP ROUTE 6 INTERCHANGE LOCATIONS BASED ON NUMBER OF CRASHES

Rank Crashes	Town	Location	Crash Count	Notes
1	Dennis	Exit 9A/9B- Route 6 (Mid-Cape Highway) at Route 134 (East-West Dennis Road)	163	Planned 2019 CCC Corridor Study
2	Bourne	Exit 1A- Route 6 (Pilgrims Highway) at Scenic Highway	140	Recommendations in 2019 MassDOT Canal Study
3	Barnstable	Exit 6- Route 6 (Mid-Cape Highway) at Route 132 (Iyannough Road)	136	Pre-emption added to signals in 2017
4	Yarmouth	Exit 7- Route 6 (Mid-Cape Highway) at Willow Street	118	
5	Harwich	Exit 10- Route 6 (Mid-Cape Highway) at Route 124 (Pleasant Lake Ave)	107	
6	Yarmouth	Exit 8- Route 6 (Mid-Cape Highway) at Station Ave/Union Street	106	
7	Barnstable	Exit 5- Route 6 (Mid-Cape Highway) at Route 149 (Meetinghouse Way)	88	Ramp improvements in 2011
8	Sandwich	Exit 2- Route 6 (Mid-Cape Highway) at Route 130 (Water Street/Forestdale Road)	58	Signal added in 2012
9	Sandwich	Exit 3- Route 6 (Mid-Cape Highway) at Quaker Meeting House Road	56	
10	Harwich/Brewster	Exit 11- Route 6 (Mid-Cape Highway) at Route 137 (Brewster-Chatham Road)	52	Signal added to eastbound ramps in 2013
11	Sandwich	Exit 4- Route 6 (Mid-Cape Highway) at Chase Road	46	
12	Orleans	Exit 12- Route 6 (Mid-Cape Highway) at Route 6A (Old King's Hwy/Cranberry Hwy)	36	
13	Bourne	Exit 1C- Route 6 (Mid-Cape Highway) at Mid-Cape Connector	35	Recommendations in 2019 MassDOT Canal Study
Note: Systematic wrong-way prevention improvement made to all ramps in recent years.				
2019 CCC Interchange report				

TOP CIRCULAR INTERSECTION LOCATIONS BASED ON NUMBER OF CRASHES

Rank Crashes	Town	Location	Crash Count	Notes
1	Bourne	Bourne Rotary (Route 28, Sandwich Road, Trowbridge Road)	445	Study completed in 2014; safety improvements in 2015
2	Mashpee	Mashpee Rotary (Route 28, Route 151, Great Neck Road)	316	Planned RSA for 2019
3	Bourne	Otis Rotary (Route 28, Connery Ave, Lake Drive)	265	Retrofitted in 2016
4	Bourne	Belmont Rotary (Route 28, Main Street, Buzzards Bay Bypass)	258	Pedestrian accommodations TIP year 2020; 2019 MassDOT Canal Study
5	Barnstable	Barnstable Airport (Route 28, Route 132, Barnstable Road)	257	Potential improvements identified in 2019 RSA
6	Orleans/Eastham	Orleans/Eastham Rotary	207	Potential improvements identified in 2019 RSA
7	Bourne	Memorial Circle (Route 6, Route 28, Main Street)	88	
8	Orleans	Route 6A (Route 28, Canal Road)	71	Roundabout constructed in 2015
9	Barnstable	Route 149 (Prospect Street, Race Lane, Cotuit Road)	40	Upgraded landscaping and lighting 2016
10	Barnstable	West End Rotary (Main Street, North Street, Scudder Ave)	35	
11	Harwich	Route 39 (Orleans-Harwich Road, Queen Anne Road)	18	
12	Chatham	Chatham (Route 28, Main Street)	13	
13	Barnstable	Route 6 Ramp Exit 5 (Route 149, Service Road)	14	Roundabout constructed in 2011
14	Sandwich	Sandwich/Cotuit Road	13	Roundabout constructed in 2012
15	Barnstable	Hyannis Youth Center (Bearses Way, Bassett Lane)	11	
16	Falmouth	Route 28A (N Falmouth Boulevard, Curley Boulevard)	5	
17	Yarmouth	Higgins Crowell Road	2	
18	Dennis	West Dennis Beach Rotary	1	
19	Provincetown	Provincetown Route 6A (Province Lands Road)	0	
20	Mashpee	Triton Sound Circle	0	
21	Yarmouth	Wampanoag Road	0	
22	Yarmouth	Pleasant Street/River Street	0	
23	Falmouth	Tower House Road	0	
24	Mashpee	Rock Landing Road	0	

Bicycle and Pedestrian Crashes

From the overall crash dataset, MassDOT further narrows the data to highlight crashes involving bicycles or pedestrians. All of the crashes included in the bicycle/pedestrian data are also included in the data of all vehicular crashes. The following figure depicts all located crashes in Barnstable County that were reported and located during 2012-2016. All bicycle/pedestrian crashes included at least one motor vehicle.

For the period 2012-2016 there were 910 reported crashing involving bicycles or pedestrians. Of the 910 reported bicycle and pedestrian crashes, 20 resulted in a fatality.

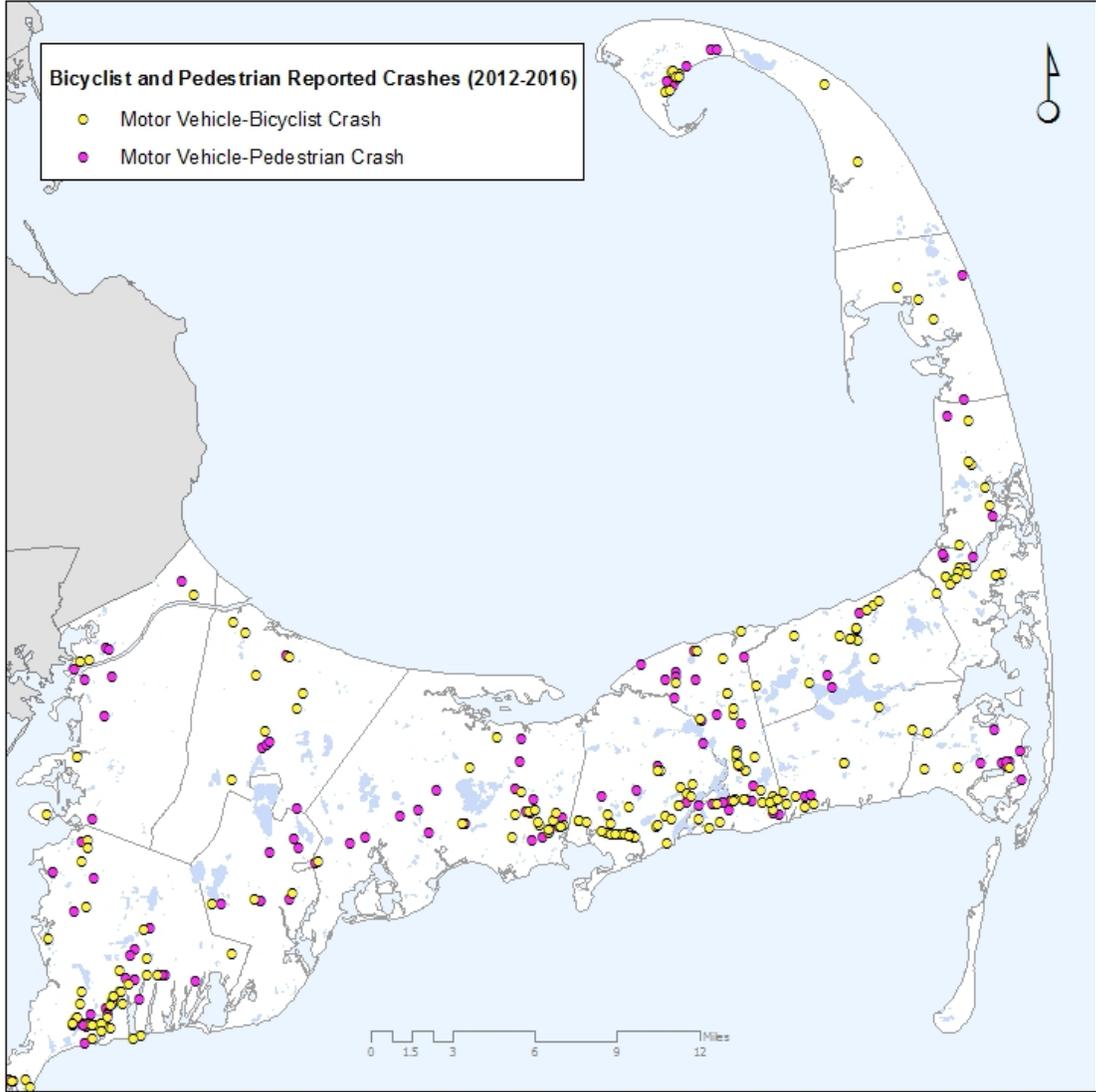


FIGURE 2: BICYCLE/PEDESTRIAN CRASHES, 2012-2016

The highest concentration of bicycle and pedestrian crashes occur along Barnstable County's major roads. The majority of crashes took place along Route 28 – particularly in downtown Falmouth, Hyannis, Yarmouth, Chatham and Orleans. Other areas of high concentration are downtown Buzzard's Bay in Bourne, Station Avenue in Yarmouth, Route 134 in Dennis, downtown Orleans, and Commercial Street in Provincetown.

It should be noted that these data is representative of all reported bicycle/pedestrian crashes – not necessarily all crashes that have occurred. Furthermore, the reports must have had enough information to be located properly. Differences in number of crashes per town may be the result of a difference in reporting, although there is no evidence to suggest a difference.

Also, bicycle/pedestrian crashes are known to be under-reported. It is not uncommon for bicyclists or pedestrians to decline reporting an incident with a vehicle if their injuries are too minor to warrant a hospital visit. Unfortunately, this lack of reporting diminishes the accuracy of a report like this, and does little to highlight problem areas in the county.

Fatal Crashes

The most severe crash type (i.e., those involving fatalities) is given special attention by safety officials to ascertain any contributing factors. The MassDOT dataset indicate that 86 crashes involving a fatality occurred during 2012-2016. A town-by-town breakdown is presented in the following table.

TABLE 1: FATAL CRASHES BY TOWN, 2012-2016

Town	2012	2013	2014	2015	2016	Total
Barnstable	6	3	3	3	4	19
Bourne	2	3	1	0	0	6
Brewster	0	0	1	1	0	2
Chatham	0	1	0	1	0	2
Dennis	5	2	1	1	0	9
Eastham	0	0	0	3	1	4
Falmouth	4	2	1	0	5	12
Harwich	3	0	1	0	0	4
Mashpee	0	0	0	0	2	2
Orleans	1	0	0	0	1	2
Provincetown	1	0	0	0	0	1
Sandwich	1	1	2	1	1	6
Truro	0	0	0	0	0	0
Wellfleet	0	2	2	0	0	4
Yarmouth	3	2	4	2	2	13
Total	26	16	16	12	16	86

The locations of 83 of the 86 fatal crashes have been identified and are shown on the following map.

The bulk of the fatal incidents have occurred on Cape Cod's major roads – notably Route 28 in Bourne and Route 6 in Barnstable. The towns of Barnstable, Falmouth, and Yarmouth have experienced the most fatal crashes, with nineteen, twelve, and thirteen, respectively.

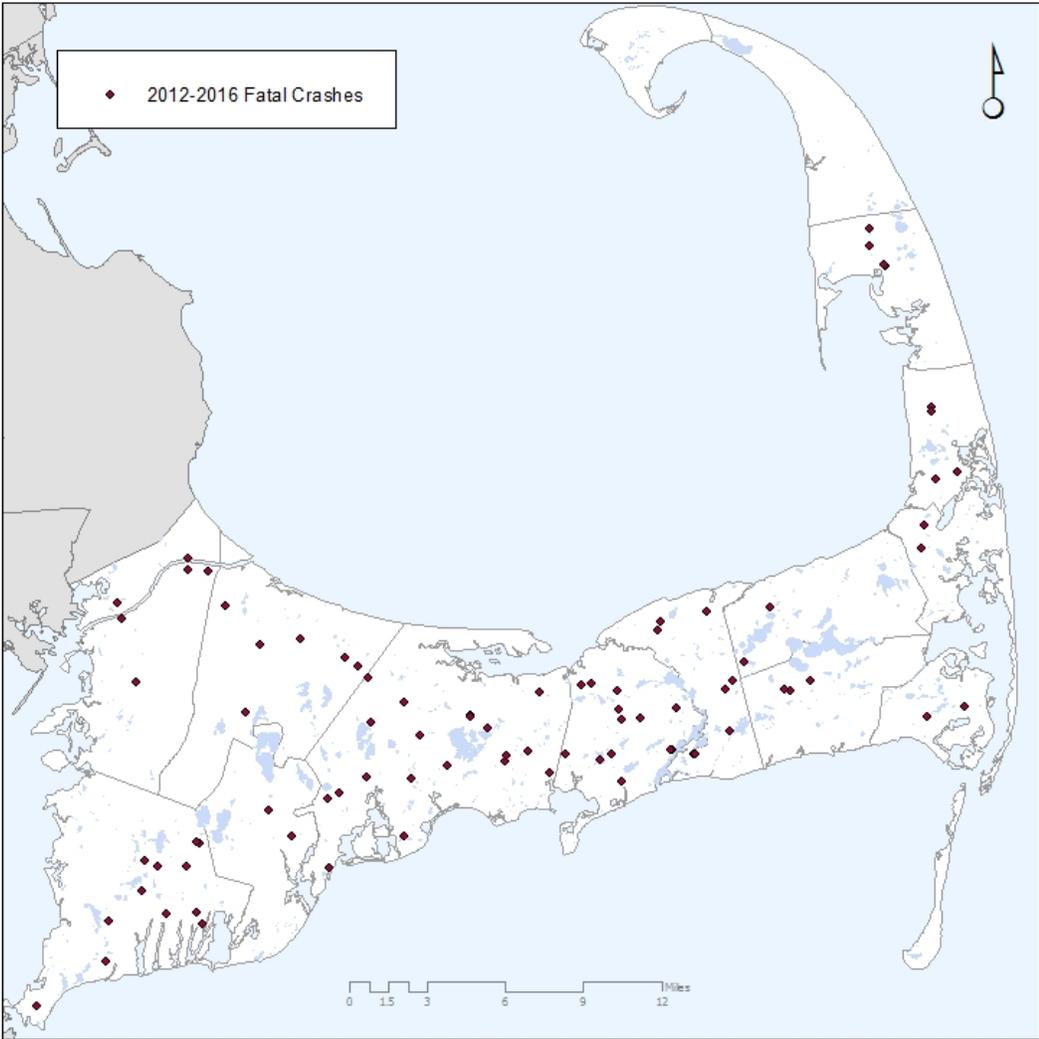


FIGURE 3: BARNSTABLE COUNTY FATAL CRASHES, 2012-2016

Summary

The information provided in this report has been presented with the intention of serving as a resource to make Cape Cod safer for motorists, pedestrians, and bicyclists. Cape Cod Commission staff will use this report to prioritize locations for future Road Safety Audits. This list will also serve as a resource for transportation safety professionals looking to make strategic investments to improve safety in the region. There are many ways to create a list of most dangerous intersections, and each methodology has its strengths and weaknesses. For this reason, the Commission has produced four high crash lists without identification of a preferred option. The user is responsible for selecting the list which is most appropriate based on the desired outcome's characteristics.

Geolocating crashes is an effective method used in identifying high crash areas. Better crash data will lead to better analysis, the most accurate identification of problem areas, and the deployment of appropriate safety improvements. Incomplete or inaccurate crash reporting may lead to a missed opportunity of funds for a project.

Accurate and comprehensive crash reporting will lead to better opportunities for safety improvements and focus further safety studies on the areas of most critical need.

Please visit capecodcommission.org/safety for a dashboard of crashes across Cape Cod. Data in this portal included locations of crashes as well as severity, bike and pedestrian related, and much more.



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