

October 29, 2024

Mayor Marc D. Citrin  
Village of Tuxedo Park  
80 Lorillard Road  
Tuxedo Park, NY 10987

Speed Study Reduction  
Village of Tuxedo Park, Orange County, New York  
Colliers Engineering & Design Project No. 24007638A

Dear Mayor Citrin:

Colliers Engineering & Design (CED) has completed our evaluation of the appropriateness of a Village-wide posted speed limit reduction from 30 MPH to 25 MPH.

#### Data Collection

As part of this evaluation, representatives of CED placed Automatic Traffic Recorder (ATR) machines at four (4) locations within the Village to collect information with respect to traffic volume and travel speeds. This data collection was completed for a 24-hour period on Wednesday, September 18, 2024. The locations at which the information was collected are shown on the attached Figure No. 1 and include:

- Tuxedo Road between Clubhouse Road and Fox Hill Road
- Tower Hill Road E between Clubhouse Road and Tower Hill Loop
- West Lake Road between Patterson Brook Road and Brook Farm Road
- East Lake Road between Acoma Road and Cliff Road

These locations were chosen based on geographic location within the Village, roadway geometrics (horizontal/vertical alignment) and density of development adjacent thereto. Additionally, crash experience and incident reports were collected from Village staff and reviewed to determine whether any pattern or commonality exist.

#### Traffic Volumes

Identified on Tables No. V-1 through V-4 are the results of the volume/speed data collected by direction. As shown Table No. V-1, the Tuxedo Road location supports 1,978 vehicles per day equally balanced by direction. East Lake Road data shown on Table No. V-2 supports 396 vehicles per day balanced by direction. Tower Hill Road identified on Table No. V-3 supports only 101 vehicles per day with most of the traffic headed in the northbound direction. Shown on Table No. V-4, West Lake Road supports some 229 vehicles per day nearly balanced by direction. East Lake Road, Tower Hill

Road, and West Lake Road daily volumes are such that they could be considered as “Very Low Volume Local Roads” where their Average Daily Traffic (ADT) is less than 400 vehicles.

### Speed

Collected concurrently with the traffic volumes were travel speeds, by direction, on each of these same facilities. Identified on Tables No. S-1, S-1a through S-4 and S-4a are the recorded speeds given in 4 MPH increments during each of the 24 hours observed.

Identified on Tables S-1 and S-1a are the speeds recorded on Tuxedo Road where the average speed was recorded at 28 MPH eastbound and 30 MPH westbound. The 85% speed, the speed at which 85% of those observed traveled at or below, was recorded at 30 MPH eastbound and 33 MPH westbound.

Tables No. S-2 and S-2a identify those speeds recorded at East Lake Road where the average speed was found to be 28 MPH northbound and 29 MPH southbound. The 85% speeds were recorded at 32 MPH and 33 MPH northbound/southbound, respectively.

On Tower Hill Road, identified on Tables No. S-3 and S-3a, the average speed was found to be 28 MPH with an 85% speed of 33 MPH in each of the northbound and southbound directions.

The West Lake Road results, identified on Tables No. S-4 and S-4a, indicate an average speed of 26 MPH and an 85% speed of 29 MPH in the northbound direction and an average speed of 28 MPH and an 85% speed of 31 MPH in the southbound direction.

It should be noted, the 85% speed is generally recognized as the value used to set posted speed limits. Drivers that travel above the 85% speed are considered to be exceeding the safe speed for the prevailing road conditions. Often, the posted speed limit is set at 5 MPH below the 85% speed to allow for an increased safety margin.

### Accidents

As mentioned earlier, CED collected crash records for an approximate 3-year period that occurred on Village roadways. A summary of these data are provided on the attached Table No. A. Crash incidents have been identified as to location, date, time, traffic control measure, accident class, number of vehicles involved and injuries, lighting condition, road condition and weather, all elements that could influence crashes. The number of collisions and apparent contributing factors are also provided.

As review of the table indicates, 18 crashes were reported over the review period, nearly 85% involved only a single vehicle, 83% occurred during daylight periods, for 61% the pavement surface was dry and weather clear. Nine (9) of the crashes were listed as “off road” with contributing factors as “slippery pavement” and “driver inattention”.

Identified on Table No. B is a summary of Village Incident Reports. The list contains 22 incidents of which 4 correlated with the accident summary provided above. The remaining 18 incidents reflect mostly property damage caused by inattentive drivers hitting walls, pillars, or mailboxes. A few incidents were recorded as vehicles damaged by falling trees.

### Conclusions

Based on the above volume, speed, and crash data and considering the geometrics of the roads throughout the Village having numerous changes in vertical and horizontal alignment, the narrowness of the roads, the fact that a significant portion of the recorded accidents are of the single vehicle type and that all but one of the 85% speeds were found to be around the 30 MPH value, it is our recommendation that the posted speed limit be set at 25 MPH. This value will provide a speed limit more in line with the character of these local roads, particularly considering the geometrics mentioned above and the proximity of roadside vegetation that limits available sight distance.

Sincerely,

Colliers Engineering & Design, Architecture, Landscape Architecture, Surveying, CT P.C.



A. Peter Russillo, P.E., PTOE  
Senior Project Manager



NOTE: LINE DIAGRAM NOT TO SCALE



TUXEDO PARK SPEED REDUCTION

TUXEDO PARK, ORANGE COUNTY, NEW YORK

TRAFFIC IMPACT STUDY

24007638A

9/24/24



ATR MACHINE LOCATION MAP

FIGURE No. 1

Table V1  
Tuxedo RD, Tuxedo Park NY

Time	16-Sep-24		Tuesday		Wednesday		Thursday		Friday		Weekday Average	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	-	-	-	-	2	4	-	-	-	-	2	4
01:00 AM	-	-	-	-	1	3	-	-	-	-	1	3
02:00 AM	-	-	-	-	1	1	-	-	-	-	1	1
03:00 AM	-	-	-	-	1	0	-	-	-	-	1	0
04:00 AM	-	-	-	-	5	4	-	-	-	-	5	4
05:00 AM	-	-	-	-	8	4	-	-	-	-	8	4
06:00 AM	-	-	-	-	30	18	-	-	-	-	30	18
07:00 AM	-	-	-	-	39	80	-	-	-	-	39	80
08:00 AM	-	-	-	-	87	139	-	-	-	-	87	139
09:00 AM	-	-	-	-	71	72	-	-	-	-	71	72
10:00 AM	-	-	-	-	62	55	-	-	-	-	62	55
11:00 AM	-	-	-	-	77	52	-	-	-	-	77	52
12:00 PM	-	-	-	-	74	61	-	-	-	-	74	61
01:00 PM	-	-	-	-	63	60	-	-	-	-	63	60
02:00 PM	-	-	-	-	69	75	-	-	-	-	69	75
03:00 PM	-	-	-	-	79	80	-	-	-	-	79	80
04:00 PM	-	-	-	-	140	56	-	-	-	-	140	56
05:00 PM	-	-	-	-	51	49	-	-	-	-	51	49
06:00 PM	-	-	-	-	55	62	-	-	-	-	55	62
07:00 PM	-	-	-	-	29	44	-	-	-	-	29	44
08:00 PM	-	-	-	-	17	32	-	-	-	-	17	32
09:00 PM	-	-	-	-	18	23	-	-	-	-	18	23
10:00 PM	-	-	-	-	6	10	-	-	-	-	6	10
11:00 PM	-	-	-	-	4	5	-	-	-	-	4	5
Total Day	0	0	0	0	989	989	0	0	0	0	989	989
	0		0		1978		0		0		1978	
Am Peak	-	-	-	-	8:00	8:00	-	-	-	-	8:00	8:00
Volume	-	-	-	-	87	139	-	-	-	-	87	139
Pm Peak	-	-	-	-	16:00	15:00	-	-	-	-	16:00	15:00
Volume	-	-	-	-	140	80	-	-	-	-	140	80

Table V2  
East Lake RD, Tuxedo Park NY

Time	16-Sep-24		Tuesday		Wednesday		Thursday		Friday		Weekday Average	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	-	-	-	-	2	1	-	-	-	-	2	1
01:00 AM	-	-	-	-	1	0	-	-	-	-	1	0
02:00 AM	-	-	-	-	0	0	-	-	-	-	0	0
03:00 AM	-	-	-	-	0	0	-	-	-	-	0	0
04:00 AM	-	-	-	-	2	2	-	-	-	-	2	2
05:00 AM	-	-	-	-	2	0	-	-	-	-	2	0
06:00 AM	-	-	-	-	7	3	-	-	-	-	7	3
07:00 AM	-	-	-	-	9	7	-	-	-	-	9	7
08:00 AM	-	-	-	-	16	26	-	-	-	-	16	26
09:00 AM	-	-	-	-	14	18	-	-	-	-	14	18
10:00 AM	-	-	-	-	11	11	-	-	-	-	11	11
11:00 AM	-	-	-	-	20	18	-	-	-	-	20	18
12:00 PM	-	-	-	-	13	16	-	-	-	-	13	16
01:00 PM	-	-	-	-	13	13	-	-	-	-	13	13
02:00 PM	-	-	-	-	17	11	-	-	-	-	17	11
03:00 PM	-	-	-	-	18	18	-	-	-	-	18	18
04:00 PM	-	-	-	-	21	14	-	-	-	-	21	14
05:00 PM	-	-	-	-	9	9	-	-	-	-	9	9
06:00 PM	-	-	-	-	10	9	-	-	-	-	10	9
07:00 PM	-	-	-	-	5	11	-	-	-	-	5	11
08:00 PM	-	-	-	-	3	3	-	-	-	-	3	3
09:00 PM	-	-	-	-	1	7	-	-	-	-	1	7
10:00 PM	-	-	-	-	3	1	-	-	-	-	3	1
11:00 PM	-	-	-	-	0	1	-	-	-	-	0	1
Total Day	0	0	0	0	197	199	0	0	0	0	197	199
	0		0		396		0		0		396	
Am Peak	-	-	-	-	11:00	8:00	-	-	-	-	11:00	8:00
Volume	-	-	-	-	20	26	-	-	-	-	20	26
Pm Peak	-	-	-	-	16:00	15:00	-	-	-	-	16:00	15:00
Volume	-	-	-	-	21	18	-	-	-	-	21	18

Table V3  
Tower Hill RD, Tuxedo Park NY

Time	16-Sep-24		Tuesday		Wednesday		Thursday		Friday		Weekday Average	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	-	-	-	-	0	0	-	-	-	-	0	0
01:00 AM	-	-	-	-	1	0	-	-	-	-	1	0
02:00 AM	-	-	-	-	0	0	-	-	-	-	0	0
03:00 AM	-	-	-	-	0	0	-	-	-	-	0	0
04:00 AM	-	-	-	-	2	1	-	-	-	-	2	1
05:00 AM	-	-	-	-	0	2	-	-	-	-	0	2
06:00 AM	-	-	-	-	0	0	-	-	-	-	0	0
07:00 AM	-	-	-	-	2	1	-	-	-	-	2	1
08:00 AM	-	-	-	-	7	7	-	-	-	-	7	7
09:00 AM	-	-	-	-	1	10	-	-	-	-	1	10
10:00 AM	-	-	-	-	1	7	-	-	-	-	1	7
11:00 AM	-	-	-	-	1	2	-	-	-	-	1	2
12:00 PM	-	-	-	-	1	6	-	-	-	-	1	6
01:00 PM	-	-	-	-	3	4	-	-	-	-	3	4
02:00 PM	-	-	-	-	2	3	-	-	-	-	2	3
03:00 PM	-	-	-	-	2	8	-	-	-	-	2	8
04:00 PM	-	-	-	-	4	10	-	-	-	-	4	10
05:00 PM	-	-	-	-	1	4	-	-	-	-	1	4
06:00 PM	-	-	-	-	1	2	-	-	-	-	1	2
07:00 PM	-	-	-	-	0	1	-	-	-	-	0	1
08:00 PM	-	-	-	-	1	2	-	-	-	-	1	2
09:00 PM	-	-	-	-	0	1	-	-	-	-	0	1
10:00 PM	-	-	-	-	0	0	-	-	-	-	0	0
11:00 PM	-	-	-	-	0	0	-	-	-	-	0	0
Total Day	0	0	0	0	30	71	0	0	0	0	30	71
	0		0		101		0		0		101	
Am Peak	-	-	-	-	8:00	9:00	-	-	-	-	8:00	9:00
Volume	-	-	-	-	7	10	-	-	-	-	7	10
Pm Peak	-	-	-	-	16:00	16:00	-	-	-	-	16:00	16:00
Volume	-	-	-	-	4	10	-	-	-	-	4	10

Table V4  
West Lake RD, Tuxedo Park NY

Time	16-Sep-24		Tuesday		Wednesday		Thursday		Friday		Weekday Average	
	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB	EB	WB
12:00 AM	-	-	-	-	0	1	-	-	-	-	0	1
01:00 AM	-	-	-	-	0	0	-	-	-	-	0	0
02:00 AM	-	-	-	-	0	0	-	-	-	-	0	0
03:00 AM	-	-	-	-	0	0	-	-	-	-	0	0
04:00 AM	-	-	-	-	0	0	-	-	-	-	0	0
05:00 AM	-	-	-	-	1	0	-	-	-	-	1	0
06:00 AM	-	-	-	-	2	2	-	-	-	-	2	2
07:00 AM	-	-	-	-	3	6	-	-	-	-	3	6
08:00 AM	-	-	-	-	11	10	-	-	-	-	11	10
09:00 AM	-	-	-	-	7	12	-	-	-	-	7	12
10:00 AM	-	-	-	-	11	11	-	-	-	-	11	11
11:00 AM	-	-	-	-	11	8	-	-	-	-	11	8
12:00 PM	-	-	-	-	9	8	-	-	-	-	9	8
01:00 PM	-	-	-	-	6	10	-	-	-	-	6	10
02:00 PM	-	-	-	-	15	8	-	-	-	-	15	8
03:00 PM	-	-	-	-	2	9	-	-	-	-	2	9
04:00 PM	-	-	-	-	9	18	-	-	-	-	9	18
05:00 PM	-	-	-	-	7	1	-	-	-	-	7	1
06:00 PM	-	-	-	-	10	10	-	-	-	-	10	10
07:00 PM	-	-	-	-	0	4	-	-	-	-	0	4
08:00 PM	-	-	-	-	2	1	-	-	-	-	2	1
09:00 PM	-	-	-	-	0	2	-	-	-	-	0	2
10:00 PM	-	-	-	-	0	1	-	-	-	-	0	1
11:00 PM	-	-	-	-	0	1	-	-	-	-	0	1
Total Day	0	0	0	0	106	123	0	0	0	0	106	123
	0		0		229		0		0		229	
Am Peak	-	-	-	-	8:00	9:00	-	-	-	-	8:00	9:00
Volume	-	-	-	-	11	12	-	-	-	-	11	12
Pm Peak	-	-	-	-	14:00	16:00	-	-	-	-	14:00	16:00
Volume	-	-	-	-	15	18	-	-	-	-	15	18



Table S-1  
Tuxedo RD, Tuxedo Park NY

Time	E.B. Speed													
	1-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-999
12:00 AM	0	0	0	2	0	0	0	0	0	0	0	0	0	0
01:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
02:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
03:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
04:00 AM	0	0	0	3	2	0	0	0	0	0	0	0	0	0
05:00 AM	0	0	2	4	2	0	0	0	0	0	0	0	0	0
06:00 AM	0	0	2	22	5	1	0	0	0	0	0	0	0	0
07:00 AM	0	0	3	23	13	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	10	62	15	0	0	0	0	0	0	0	0	0
09:00 AM	1	1	4	48	17	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	10	43	9	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	10	59	8	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	6	60	8	0	0	0	0	0	0	0	0	0
01:00 PM	0	0	6	47	9	1	0	0	0	0	0	0	0	0
02:00 PM	0	0	4	53	12	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	8	59	11	1	0	0	0	0	0	0	0	0
04:00 PM	0	0	15	110	15	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	4	37	10	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	2	41	12	0	0	0	0	0	0	0	0	0
07:00 PM	0	0	4	17	8	0	0	0	0	0	0	0	0	0
08:00 PM	0	0	0	11	5	1	0	0	0	0	0	0	0	0
09:00 PM	0	0	0	8	10	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	2	2	1	0	1	0	0	0	0	0	0	0
11:00 PM	0	0	0	3	1	0	0	0	0	0	0	0	0	0
	85th Percentile:				30 MPH									
	10 MPH Pace Speed:				26-35 MPH									
	Number in Pace:				890									
	Percent in Pace:				90%									
	Mean Speed(Average):				28 MPH									

Table S-1a  
Tuxedo RD, Tuxedo Park NY

Time	W.B. Speed													
	1-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-999
12:00 AM	0	0	0	2	2	0	0	0	0	0	0	0	0	0
01:00 AM	0	0	0	1	1	1	0	0	0	0	0	0	0	0
02:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	0	0
03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 AM	0	0	0	0	3	0	1	0	0	0	0	0	0	0
05:00 AM	0	0	0	2	2	0	0	0	0	0	0	0	0	0
06:00 AM	0	0	4	9	4	1	0	0	0	0	0	0	0	0
07:00 AM	0	0	7	38	34	1	0	0	0	0	0	0	0	0
08:00 AM	0	0	2	80	52	5	0	0	0	0	0	0	0	0
09:00 AM	0	0	3	49	18	1	1	0	0	0	0	0	0	0
10:00 AM	0	1	3	29	21	1	0	0	0	0	0	0	0	0
11:00 AM	0	0	4	25	22	1	0	0	0	0	0	0	0	0
12:00 PM	0	0	5	35	18	3	0	0	0	0	0	0	0	0
01:00 PM	0	0	4	29	26	1	0	0	0	0	0	0	0	0
02:00 PM	0	0	1	40	33	1	0	0	0	0	0	0	0	0
03:00 PM	0	0	0	39	38	3	1	0	0	0	0	0	0	0
04:00 PM	0	0	2	28	25	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	1	22	22	4	0	0	0	0	0	0	0	0
06:00 PM	0	0	3	37	19	3	0	0	0	0	0	0	0	0
07:00 PM	0	0	5	26	13	0	0	0	0	0	0	0	0	0
08:00 PM	0	0	2	13	16	1	0	0	0	0	0	0	0	0
09:00 PM	0	0	2	14	7	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	2	1	7	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	4	1	0	0	0	0	0	0	0	0	0
	85th Percentile:				33 MPH									
	10 MPH Pace Speed:				26-35 MPH									
	Number in Pace:				908									
	Percent in Pace:				92%									
	Mean Speed(Average):				30 MPH									

Table S-2  
E Lake RD, Tuxedo Park NY

N.B. Speed

Time	1-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-999
12:00 AM	0	0	0	0	2	0	0	0	0	0	0	0	0	0
01:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	0	0
02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 AM	0	0	0	0	1	1	0	0	0	0	0	0	0	0
05:00 AM	0	0	0	2	0	0	0	0	0	0	0	0	0	0
06:00 AM	0	0	2	3	2	0	0	0	0	0	0	0	0	0
07:00 AM	0	0	2	4	3	0	0	0	0	0	0	0	0	0
08:00 AM	1	1	6	6	2	0	0	0	0	0	0	0	0	0
09:00 AM	0	1	1	7	4	1	0	0	0	0	0	0	0	0
10:00 AM	0	0	1	5	5	0	0	0	0	0	0	0	0	0
11:00 AM	0	2	2	12	4	0	0	0	0	0	0	0	0	0
12:00 PM	0	1	0	9	3	0	0	0	0	0	0	0	0	0
01:00 PM	0	0	2	7	3	1	0	0	0	0	0	0	0	0
02:00 PM	0	0	5	9	3	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	3	9	6	0	0	0	0	0	0	0	0	0
04:00 PM	0	1	5	12	2	0	1	0	0	0	0	0	0	0
05:00 PM	0	0	3	4	2	0	0	0	0	0	0	0	0	0
06:00 PM	0	1	3	5	1	0	0	0	0	0	0	0	0	0
07:00 PM	0	1	0	3	1	0	0	0	0	0	0	0	0	0
08:00 PM	0	0	1	2	0	0	0	0	0	0	0	0	0	0
09:00 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	3	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0

85th Percentile:	32 MPH
10 MPH Pace Speed:	26-35 MPH
Number in Pace:	148
Percent in Pace:	75%
Mean Speed(Average):	28 MPH

Table S-2a  
E Lake RD, Tuxedo Park NY

S.B. Speed

Time	1-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-999
12:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0
01:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 AM	0	0	0	0	2	0	0	0	0	0	0	0	0	0
05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 AM	0	0	0	2	1	0	0	0	0	0	0	0	0	0
07:00 AM	0	0	2	3	2	0	0	0	0	0	0	0	0	0
08:00 AM	1	2	3	12	8	0	0	0	0	0	0	0	0	0
09:00 AM	0	0	2	10	5	1	0	0	0	0	0	0	0	0
10:00 AM	0	0	2	5	4	0	0	0	0	0	0	0	0	0
11:00 AM	0	1	2	7	8	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	2	11	2	1	0	0	0	0	0	0	0	0
01:00 PM	0	0	4	5	4	0	0	0	0	0	0	0	0	0
02:00 PM	0	0	0	6	4	1	0	0	0	0	0	0	0	0
03:00 PM	0	0	1	13	4	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	1	6	7	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	1	6	1	1	0	0	0	0	0	0	0	0
06:00 PM	0	1	1	4	3	0	0	0	0	0	0	0	0	0
07:00 PM	0	0	1	6	4	0	0	0	0	0	0	0	0	0
08:00 PM	0	0	0	2	1	0	0	0	0	0	0	0	0	0
09:00 PM	0	0	1	1	5	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	1	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0

85th Percentile:	33 MPH
10 MPH Pace Speed:	26-35 MPH
Number in Pace:	165
Percent in Pace:	83%
Mean Speed(Average):	29 MPH

Table S-3  
Tower Hill RD, Tuxedo Park NY

N.B. Speed

Time	1-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-999
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 AM	0	0	0	0	0	1	0	0	0	0	0	0	0	0
02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 AM	0	0	0	0	2	0	0	0	0	0	0	0	0	0
05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00 AM	1	0	0	0	1	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	1	2	3	1	0	0	0	0	0	0	0	0
09:00 AM	1	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
01:00 PM	0	0	2	1	0	0	0	0	0	0	0	0	0	0
02:00 PM	0	0	1	1	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	2	0	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	1	2	1	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0
07:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0

85th Percentile:	33 MPH
10 MPH Pace Speed:	26-35 MPH
Number in Pace:	19
Percent in Pace:	63%
Mean Speed(Average):	28 MPH

Table S-3a  
Tower Hill RD, Tuxedo Park NY

Time	S.B. Speed													
	1-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-999
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 AM	0	0	0	0	1	0	0	0	0	0	0	0	0	0
05:00 AM	0	0	1	0	0	1	0	0	0	0	0	0	0	0
06:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
07:00 AM	0	0	0	0	0	0	1	0	0	0	0	0	0	0
08:00 AM	0	0	1	2	4	0	0	0	0	0	0	0	0	0
09:00 AM	0	0	4	5	1	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	3	3	1	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	1	1	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	3	1	1	1	0	0	0	0	0	0	0	0
01:00 PM	0	0	2	1	1	0	0	0	0	0	0	0	0	0
02:00 PM	0	0	3	0	0	0	0	0	0	0	0	0	0	0
03:00 PM	0	1	5	0	1	1	0	0	0	0	0	0	0	0
04:00 PM	1	1	1	4	2	1	0	0	0	0	0	0	0	0
05:00 PM	0	0	1	2	1	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	0
07:00 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
08:00 PM	0	0	0	1	1	0	0	0	0	0	0	0	0	0
09:00 PM	0	0	0	0	0	0	0	0	0	0	1	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0

85th Percentile:	33 MPH
10 MPH Pace Speed:	21-30 MPH
Number in Pace:	47
Percent in Pace:	66%
Mean Speed(Average):	28 MPH

Table S-4  
W Lake RD, Tuxedo Park NY

Time	N.B. Speed													
	1-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-999
12:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
01:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 AM	0	0	1	0	0	0	0	0	0	0	0	0	0	0
06:00 AM	0	0	1	0	1	0	0	0	0	0	0	0	0	0
07:00 AM	0	0	1	1	1	0	0	0	0	0	0	0	0	0
08:00 AM	0	1	2	8	0	0	0	0	0	0	0	0	0	0
09:00 AM	0	1	1	5	0	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	6	5	0	0	0	0	0	0	0	0	0	0
11:00 AM	0	1	5	4	0	1	0	0	0	0	0	0	0	0
12:00 PM	0	1	4	4	0	0	0	0	0	0	0	0	0	0
01:00 PM	0	0	2	3	1	0	0	0	0	0	0	0	0	0
02:00 PM	0	1	6	5	3	0	0	0	0	0	0	0	0	0
03:00 PM	0	1	0	1	0	0	0	0	0	0	0	0	0	0
04:00 PM	0	0	4	4	1	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	4	3	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	1	8	1	0	0	0	0	0	0	0	0	0
07:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
08:00 PM	0	0	1	0	1	0	0	0	0	0	0	0	0	0
09:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
11:00 PM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
85th Percentile:		29 MPH												
10 MPH Pace Speed:		21-30 MPH												
Number in Pace:		90												
Percent in Pace:		85%												
Mean Speed(Average):		26 MPH												

Table S-4a  
W Lake RD, Tuxedo Park NY

S.B. Speed

Time	1-15	16-20	21-25	26-30	31-35	36-40	41-45	46-50	51-55	56-60	61-65	66-70	71-75	76-999
12:00 AM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
01:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
02:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
03:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
04:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
05:00 AM	0	0	0	0	0	0	0	0	0	0	0	0	0	0
06:00 AM	0	0	0	1	1	0	0	0	0	0	0	0	0	0
07:00 AM	0	0	0	4	2	0	0	0	0	0	0	0	0	0
08:00 AM	0	0	0	7	2	1	0	0	0	0	0	0	0	0
09:00 AM	0	1	2	6	3	0	0	0	0	0	0	0	0	0
10:00 AM	0	0	2	8	1	0	0	0	0	0	0	0	0	0
11:00 AM	0	0	4	4	0	0	0	0	0	0	0	0	0	0
12:00 PM	0	0	1	5	2	0	0	0	0	0	0	0	0	0
01:00 PM	0	0	3	3	4	0	0	0	0	0	0	0	0	0
02:00 PM	0	0	2	3	3	0	0	0	0	0	0	0	0	0
03:00 PM	0	0	1	5	3	0	0	0	0	0	0	0	0	0
04:00 PM	0	1	2	13	2	0	0	0	0	0	0	0	0	0
05:00 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
06:00 PM	0	0	3	4	3	0	0	0	0	0	0	0	0	0
07:00 PM	0	0	1	2	1	0	0	0	0	0	0	0	0	0
08:00 PM	0	0	0	1	0	0	0	0	0	0	0	0	0	0
09:00 PM	0	0	0	2	0	0	0	0	0	0	0	0	0	0
10:00 PM	0	0	0	0	1	0	0	0	0	0	0	0	0	0
11:00 PM	0	1	0	0	0	0	0	0	0	0	0	0	0	0

85th Percentile:	31 MPH
10 MPH Pace Speed:	26-35 MPH
Number in Pace:	47
Percent in Pace:	66%
Mean Speed(Average):	28 MPH



**TABLE A**  
**ACCIDENT SUMMARY - VILLAGE ACCIDENT DATA**  
**TUXEDO PARK, ROCKLAND COUNTY**

NODE/LINK	LOCATION	DATE	TIME	TRAFFIC CONTROL	ACCIDENT CLASS <sup>3</sup>	# OF VEHICLES - INJURIES	LIGHT CONDITION	ROAD CONDITION	WEATHER	MANNER OF COLLISION	APPARENT CONTRIBUTING FACTORS
West Lake Road	100 feet North of Summit Road	12/24/21	9:35 AM	None	PDO	1-0	Daylight	Wet	Cloudy	Off Road	Pavement Slippery
Tuxedo Park	30 feet East of 57 West Lake Road	05/27/22	8:30 AM	None	PDO & I	1-1	Daylight	Wet	Cloudy	Off Road	Pavement Slippery
Wee Wah Road	Wee Wah Road Parking Lot	06/25/22	8:03 PM	None	PDO	2-0	Daylight	Dry	Clear	Right Angle	View Obstructed/Limited, Outside Car Distraction
West Lake Road	100 feet East of West Lake Road	07/25/22	1:01 PM	No Passing Zone	PDO	1-0	Daylight	Dry	Cloudy	Off Road	Reaction to Uninvolved Vehicle, Passing or Lane Usage Improper
Town Hill Road	700 feet west of Tuxedo Road	09/24/22	11:34 AM	None	PDO	1-0	Daylight	Dry	Clear	Animal	Animal's Action
Tuxedo Road/Fox Hill Road	Fox Hill Road	10/01/22	2:38 PM	None	PDO	1-0	Daylight	Wet	Cloudy	Off Road	Driver Inattention/Distracton
Pepperidge Road	0.1 miles West of Tuxedo Road	12/11/22	4:33 PM	None	PDO	1-0	Dark-Road Unlighted	Snow/Ice	Snow	Off Road	Pavement Slippery
Tuxedo Road	300 feet South of Intersection of West Lake/Tuxedo	06/18/23	1:31 AM	None	PDO	1-0	Dark-Road Unlighted	Dry	Clear	Off Road	Driver Inattention/Distracton
West Lake Road	100 Feet West of Lorrlard Road	07/25/23	3:20 PM	None	PDO	1-0	Daylight	Wet	Rain	Object	Obstruction/Debris
Tuxedo Road	300 feet Southwest of Fox Hill Road	09/26/23	1:17 PM	No Passing Zone	PDO	1-0	Daylight	Wet	Clear	Off Road	Failure to Keep Right, Pavement Slippery
East Lake Road	Intersection of East Lake Road & Cliff Road	10/31/23	7:07 PM	No Passing Zone	PDO	1-0	Dark-Road Unlighted	Dry	Clear	Off Road	Reaction to Uninvolved Vehicle
Tuxedo Road	Intersection of Tuxedo Road & Pine Road	11/14/23	3:34 PM	None	PDO	1-0	Daylight	Dry	Clear	Animal	Animal's Action
South Gate Road	250 feet Southwest of South Lake Place	11/16/23	8:17 AM	Other	PDO	1-0	Daylight	Dry	Clear	Building	Traffic Control Disregarded
South Gate Road	250 feet South of South Lake Place	11/29/23	2:54 PM	Other	PDO	1-0	Daylight	Dry	Clear	Building	Traffic Control Disregarded, Driver Inattention/Disctracton
Tuxedo Road	300 feet South of West Lake Road	01/15/24	3:00 PM	None	PDO & I	1-1	Daylight	Dry	Clear	Off Road	Driver Inattention/Distracton
West Lake Road	200 feet Southwest of Summit Road	05/08/24	8:27 AM	No Passing Zone	PDO	2-0	Daylight	Wet	Cloudy	Sideswipe(opposite direction)	Failure to Keep Right
East Lake Road	100 feet South of 225 East Lake Road	06/07/24	3:15 PM	None	PDO & I	2-1	Daylight	Dry	Clear	Pedestrian	Passing or Lane Usage Improper, Unsafe Speed
South Gate Road	1000 feet West of South Lake Place	09/21/24	10:18 AM	Other	PDO	1-0	Daylight	Dry	Clear	Building	Traffic Control Disregarded

**NOTES:**

- 1) ACCIDENT OBTAINED FROM THE VILLAGE OF TUXEDO PARK FOR THE TIME PERIOD BETWEEN **DECEMBER, 24 2021 THROUGH SEPTEMBER, 21 2024.**
- 2) ACCIDENT CLASS: PDO = PROPERTY DAMAGE ONLY, I = INJURY, F = FATALITY, UNKOWN = NON-REPORTABLE

**TABLE B**

**INCIDENT SUMMARY - VILLAGE INCIDENT DATA  
TUXEDO PARK, ROCKLAND COUNTY**

Date	Time	Location	Cross Street	Description
01/06/21	2:58 PM	1 Circuit Road	Clubhouse Road	Vehicle caused property damage
01/19/21	6:13 PM	16 Summit Road	West Lake Road	Vehicle struck wall
05/18/21	8:12 AM	67 Pine Road	Tuxedo Road	Vehicle struck pillar
06/15/21	4:15 PM	DPW Garage	West Lake Stable Road	rear end collision
06/18/21	12:29 PM	East Lake Road	Acoma Road	Sideswipe
10/30/21	1:10 AM	Tuxedo Park School	Mountain Farm Road	Hit and Run MVA
12/24/21	9:30 AM	West Lake Road	Mountain Farm Road	Vehicle caused property damage
04/02/22	1:05 PM	Tuxedo Police Department	Park Avenue	Tree fell on vehicle
05/09/22	9:20 PM	Wee Wah Beach	West Lake Stable Road	Vehicle hit object
09/07/22	12:27 PM	1 Tuxedo Road	NA	Vehicle hit by gate
12/24/22	5:46 PM	South Gate	West Lake Drive	South gate struck Vehicle
06/18/23	12:31 AM	Tuxedo Club	Lorillard Road	Vehicle struck wall
07/14/23	12:28 PM	84 East Lake Road	Cliff Road	Vehicle caused property damage
10/10/23	3:23 PM	Tuxedo Police Department	Park Avenue	Vehicle hit object
10/31/23	7:38 PM	East Lake Road	Cliff Road	Vehicle Drove into a ditch
11/14/23	3:33 PM	Tuxedo Road	Pine Road	Animal
01/22/24	4:51 PM	18 Acomca Road	East Lake Road	Vehicle hit mailbox
05/08/24	8:28 AM	West Lake Road	Summit Road	Sideswipe (Opposite Directions)
05/23/24	7:55 AM	11 Lorillard Road	Wee Wah Road	Tree fell on vehicle
06/07/24	3:15 PM	225 East Lake Road	Crowsnest Road	vehicle hit pedestrian
07/17/24	3:35 PM	Tuxedo Club	Lorillard Road	Tree fell on vehicle
08/12/24	9:05 PM	55 Mountain Farm Road	West Lake Road	MVA