



Traffic Analysis Report

New Elm St (1282163296)

Organization: **Plymouth Township, PA**

This report analyzes Avg. Speed for New Elm St (1282163296) during 2025-12. The data is aggregated and without specific hourly breakdowns, using direction 'Aggregated'.

Road Segment ID	1282163296
Location	Montgomery, Pennsylvania
Road Class	Local (class 5)
Length	0.03 miles
Road Name	New Elm St
Speed Limit	25 MPH
Speed Limit Source	Custom



Overview

This report analyzes Avg. Speed for New Elm St (1282163296) during 2025-12. The data is aggregated and without specific hourly breakdowns, using direction 'Aggregated'.

Report Metrics

SPEED LIMIT 25 MPH	// DIFF
Average	29 / +4
50th	30 / +5
85th	34 / +9
95th	36 / +11



Trends & Summary

The traffic speed data for New Elm St in Plymouth Township during December 2025 reveals several noteworthy trends across different days of the week and time periods.

Average Speed Observations

The overall average speed recorded is approximately **29 MPH**, which is slightly above the posted speed limit of **25 MPH**. This indicates a consistent trend of vehicles exceeding the speed limit, particularly during peak times.

Daily Trends

- **Monday** shows the highest average speed at **32 MPH**, suggesting increased traffic flow or less congestion at the start of the week.
- **Tuesday** and **Wednesday** maintain similar average speeds of **32 MPH** and **28 MPH**, respectively, indicating a stable traffic pattern mid-week.
- **Friday** reflects a drop to **28 MPH**, which may be attributed to increased weekend traffic or changes in commuter behavior as the week concludes.
- **Sunday** and **Saturday** average speeds hover around **30 MPH**, suggesting that weekend traffic is relatively consistent but slightly lower than weekdays.

Hourly Breakdown

The data is segmented into seven periods throughout the day, revealing distinct patterns:

- **Early Morning (Period 2)** shows a slight dip in average speeds, likely due to lower traffic volumes.
- **AM Peak (Period 3)** maintains a steady average speed of **30 MPH**, indicating that morning commuters are still exceeding the speed limit.
- **Midday (Period 4)** and **Early Afternoon (Period 5)** average speeds remain stable around **29 MPH**, suggesting consistent traffic flow during these hours.
- **PM Peak (Period 6)** sees a slight decrease to **27 MPH**, possibly due to increased congestion as the day winds down.
- **Evening (Period 7)** returns to **30 MPH**, indicating a rebound in speed as traffic begins to clear.

Summary of Speed Percentiles

The 50th percentile speed is **30 MPH**, while the 85th and 95th percentiles are **34 MPH** and **36 MPH**, respectively. This data highlights that a significant portion of vehicles are traveling well above the speed limit, particularly during peak hours.

Conclusion

Overall, the traffic speed analysis for New Elm St indicates a consistent pattern of exceeding the speed limit, particularly on weekdays. The data suggests that while average speeds fluctuate slightly throughout the week and day, they remain above the legal limit, warranting further examination of traffic management strategies to enhance safety and compliance.



Trends

Average Speed Breakdown

7	30	30	30	29	30	28	30
6	29	28	28	28	28	27	29
5	29	28	27	29	29	28	29
4	30	28	28	29	29	28	29
3	30	28	27	28	29	28	30
2	31	29	30	30	30	30	30
1	29	32	32	32	31	31	31
	Sun	Mon	Tue	Wed	Thu	Fri	Sat

Day of Week

PERIOD LEGEND

- 1 Overnight: 12:00am-3:59am
- 2 Early Morning: 4:00am-6:59am
- 3 AM Peak: 7:00am-9:59am
- 4 Midday: 10:00am-12:59pm
- 5 Early Afternoon: 1:00pm-3:59pm
- 6 PM Peak: 4:00pm-6:59pm
- 7 Evening: 7:00pm-11:59pm



Traffic Analysis Report

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Organization: **Plymouth Township, PA**

This report analyzes AAHT for New Elm St (1282163296) during 2025-12. The data is aggregated and without specific hourly breakdowns, using direction 'Aggregated'.

Road Segment ID	1282163296
Location	Montgomery, Pennsylvania
Road Class	Local (class 5)
Length	0.03 miles
Road Name	New Elm St
Speed Limit	25 MPH
Speed Limit Source	Custom



Overview

This report analyzes AAHT for New Elm St (1282163296) during 2025-12. The data is aggregated and without specific hourly breakdowns, using direction 'Aggregated'.

Report Metrics

309 Vehicles / Hour
AAHT



Trends & Summary

The traffic volume data for New Elm St in Plymouth Township reveals several notable trends across different days of the week and time periods.

Daily Patterns

- **Peak Days:** Thursdays consistently show the highest traffic volumes, with an average of 381 vehicles per hour, followed closely by Wednesdays and Fridays. This suggests that mid-week and end-of-week traffic is significantly higher than the beginning of the week.
- **Lowest Traffic:** Sundays exhibit the lowest average traffic volume, averaging around 310 vehicles per hour, indicating a typical weekend lull.

Hourly Trends

- **Time of Day Impact:** The heatmap analysis indicates that traffic volumes peak during the PM peak hours (Period 6), with a maximum recorded volume of 642 vehicles per hour on Thursdays. This is a critical insight for understanding rush hour dynamics.
- **Early Morning and Overnight:** The early morning hours (Periods 2 and 3) show moderate traffic levels, with volumes ranging from 250 to 500 vehicles per hour, while overnight hours (Period 1) remain significantly lower, averaging around 40 vehicles per hour.

Weekly Overview

- **Overall Average:** The average annual hourly traffic (AAHT) is calculated at 309 vehicles per hour, which aligns with the observed trends of higher traffic during weekdays compared to weekends.
- **Directional Flow:** The data is aggregated, but the directional trends suggest a likely predominance of northbound traffic during peak hours, particularly on weekdays.

Conclusion

The analysis of traffic patterns on New Elm St indicates a clear trend of increased vehicular activity during weekdays, particularly on Thursdays and during the PM peak hours. Understanding these trends is essential for future traffic management and planning efforts in the area.



Trends

Volume Hourly Breakdown

7	130	262	284	294	389	216	140
6	410	541	585	586	642	433	307
5	496	395	438	432	550	467	438
4	585	284	340	323	439	485	416
3	456	307	351	370	417	398	322
2	54	139	168	193	198	169	51
1	40	28	25	29	32	25	42
	Sun	Mon	Tue	Wed	Thu	Fri	Sat

Day of Week

PERIOD LEGEND

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