



# 500 WEST 1200 SOUTH TRAFFIC STUDY

By Vern Keeslar, Traffic Manager

October 15, 2024



# Area Map



- The Functional Classification for 500 West is a Minor Arterial road
- The Functional Classification for 1200 South is a Collector road

# Crash Data

- January 1, 2021 through December 31, 2023
- Two crashes reported (both in 2022)
- Crash severity
  - No injury, property damage only
- Crash information
  - Angle crash
  - One dry, clear, and daylight conditions
  - One wet, snowing, and daylight conditions

# Crash Location Map



# Definitions

- The average speed is the summation of the spot-measured speeds at a specific location of vehicles divided by the number of vehicles observed
- The 85<sup>th</sup> percentile speed is the speed at or below which 85 percent of all vehicles are observed to travel under free-flowing conditions past a monitored point
- The volume is the number of vehicles that pass the monitoring point
- The directional distribution is the percentage of total two-way traffic that occurs by direction measured for hourly, daily, or season variation

# Speed and Volume Monitoring Locations



# Speed Results 500 West

- Dates included April 18, 19, 20, and 21, 2024 (Thursday through Sunday)
- 77 hours total
- Posted speed limit is 25 mph
- Northbound average speed 40 mph, 85% speed 43 mph
- Southbound average speed 30 mph, 85% speed 36 mph
- Overall average speed 34 mph
- Overall 85% speed 42 mph
- Northbound highest speed recorded was in the 51-55 mph category (11)
- Southbound highest speed recorded was in the 71-75 mph category (2)

# Speed Results 1200 South

- Dates included April 18, 19, 20, and 21, 2024 (Thursday through Sunday)
- 79 hours total
- Posted speed limit is 25 mph
- Eastbound average speed 25 mph, 85% speed 29 mph
- Westbound average speed 34 mph, 85% speed 39 mph
- Overall average speed 28 mph
- Overall 85% speed 37 mph
- Eastbound highest speed recorded was in the 66-70 mph category (5)
- Westbound highest speed recorded was in the 46-50 mph category (11)



# Volume Results for 500 West

- Dates included April 18, 19, 20, and 21, 2024 (Thursday through Sunday)
- 79 hours total
- Northbound total vehicles 7,146, which averages 91 vehicles per hour or 2,184 daily
- Southbound total vehicles 8,629, which averages 110 vehicles per hour or 2,640 daily
- The daily directional distribution is 46% northbound 54% southbound
- Overall total vehicles were 15,775, which averages 200 vehicles per hour or 4,800 vehicles daily

# Volume Results for 1200 South

- Dates included August 28, 29, 30, and 31, 2024 (Wednesday through Saturday)
- 77 hours total
- Eastbound total vehicles 8,496, which averages 111 vehicles per hour or 2,664 daily
- Westbound total vehicles 9,684, which averages 126 vehicles per hour or 3,024 daily
- The daily directional distribution is 47% eastbound 53% westbound
- Overall total vehicles were 18,180, which averages 237 vehicles per hour or 5,688 vehicles daily

# Summary

- Two crashes reported
- 500 West Summary
  - Overall average speed 34 mph
  - Overall 85% speed 42 mph
  - Overall total vehicles were 15,775, which averages 200 vehicles per hour or 4,800 vehicles daily
- 1200 South Summary
  - Overall average speed 28 mph
  - Overall 85% speed 37 mph
  - Overall total vehicles were 18,180, which averages 237 vehicles per hour or 5,688 vehicles daily

# Possible Solutions

- Provide speed information to Provo City Police Department for traffic enforcement
- Deploy Provo City Police Department speed radar trailer

# Contact Information

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