



Siskiyou County
DEPARTMENT OF PUBLIC WORKS

1312 FAIRLANE ROAD, SUITE 3
YREKA, CALIFORNIA 96097
PHONE: (530) 842-8250
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Thomas Deany
Director

TRAFFIC ENGINEERING REPORT
(Confidential)

Jurisdiction: Siskiyou County

31 July 2025

Road Name: Machado Lane (6L002)

Road Segment Studied: Post Mile (PM) 0.00 – 2.30

Type of Study: Speed Limit

Existing Signage: 55mph (Prima Facie)

Study Results:

1. Speed Survey (85% Percentile): 33.9 mph
2. Traffic Accident Summary: Two accidents were recorded on this section of roadway in the three (3) years preceding this study.

Summary: This section of roadway has been evaluated by the undersigned and there are no significant changes in land use, roadway, or traffic in the past five (5) years

Recommendations: The results of the attached Speed Study, in accordance with CVC 21400 will allow for setting the speed limit at the five (5) mph increment below the 85th percentile speed (Critical Speed). It is my opinion that the speed limit be set at the five (5) mph increment above the 85th percentile (Critical Speed) at 35 mph.

This report will allow the use of radar for enforcement of speed limits

In accordance with California Vehicle Code Section 40802 until August 2030.



Terry E. Smith, RCE 25056

31 JUL 25

MACHADO LANE (6L002)

ENGINEERING & TRAFFIC SURVEY PM 0.00-2.30
SPEED STUDY DATE 21-30 JULY 2025

RADAR
PM 1.2

PM 1.29

Machado Ln

PM 0.00

Big Springs Rd

Legend

Machado Ln

DESCRIPTION

CRITICAL SPEED (85TH %)

PACE SPEED

NUMBER IN PACE

AVERAGE SPEED

TOTAL VEHICLES ANALYZED

ADT THIS SURVEY

CURRENT SPEED LIMIT

MPH / TOTAL

33.9

23 - 32

1030

27.7

1756

194

55

****PROPOSED TO CHANGE SPEED LIMIT TO 35 MPH****



SISKIYOU COUNTY PUBLIC WORKS

1312 FAIRLANE ROAD

YREKA, CA 96097

Machado Ln
M.P. 1.2
7/21/25

Latitude: 41.638435
Longitude: -122.421204

Combined Lanes 8/4/2025 to 8/4/2025

Pace Speed - MPH

Classes Excluded From Pace: None

| Speed | Number | Percent |
|---------|--------|---------|
| 23 - 32 | 1,030 | 58.7% |

Percentile Speeds

| Percentile | 5th | 10th | 15th | 20th | 25th | 30th | 35th | 40th | 45th | 50th | 55th | 60th | 65th | 70th | 75th | 80th | 85th |
|------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|------------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|

| | | | | | | | | | | | | | | | | | |
|-------------|----|------|------|------|------|------|------|------|----|------|------|----|----|------|------|------|------|
| Speed - MPH | 16 | 19.7 | 21.4 | 22.7 | 23.6 | 24.5 | 25.5 | 26.2 | 27 | 27.7 | 28.4 | 29 | 30 | 30.7 | 31.8 | 32.9 | 33.9 |
|-------------|----|------|------|------|------|------|------|------|----|------|------|----|----|------|------|------|------|

Vehicles Traveling Greater Than 50.0 MPH

| | |
|---------------------------|------|
| Total Volume | 0 |
| Total Greater Than 50.0 | 0 |
| Percent Greater Than 50.0 | 0.0% |

Mean, Median, and Mode Averages

| | |
|------------------|-----|
| Mean: | 0.0 |
| Median (50th %): | 0.0 |
| Mode: | 0.0 |

SISKIYOU COUNTY PUBLIC WORKS

1312 FAIRLANE ROAD

YREKA, CA 96097

SPEED DATA ANALYSIS

Location *PM 1.32*

7/21/25



Latitude: 41.638435

Longitude: -122.421204

Analysis Time



Start
7/21/2025
1:26 PM

End
7/30/2025
3:14 PM

Vehicles Analyzed



1,756

Speed Limit



55

Total Enforceable



1

Average Speed



28

% Enforceable



0%

Fastest Speed



76

Enforcement

LOW

Slowest Speed



8

SISKIYOU COUNTY PUBLIC WORKS

1312 FAIRLANE ROAD

YREKA, CA 96097

Machado Ln
MP 1.8
7/21/25

Latitude: 41.638531
Longitude: -122.409348

Combined Lanes 7/21/2025 to 7/30/2025

Pace Speed - MPH

Classes Excluded From Pace: None

| Speed | Number | Percent |
|---------|--------|---------|
| 28 - 37 | 1,192 | 61.7% |

Percentile Speeds

| Percentile | 5th | 10th | 15th | 20th | 25th | 30th | 35th | 40th | 45th | 50th | 55th | 60th | 65th | 70th | 75th | 80th | 85th |
|-------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Speed - MPH | 22.1 | 24.8 | 26.8 | 27.9 | 28.9 | 29.9 | 30.8 | 31.5 | 32.2 | 32.9 | 33.8 | 34.5 | 35.3 | 35.8 | 36.7 | 37.7 | 38.9 |

Vehicles Traveling Greater Than 50.0 MPH

| | |
|---------------------------|-------|
| Total Volume | 1,931 |
| Total Greater Than 50.0 | 8 |
| Percent Greater Than 50.0 | 0.4% |

Mean, Median, and Mode Averages

| | |
|------------------|------|
| Mean: | 32.8 |
| Median (50th %): | 32.9 |
| Mode: | 32.5 |

SISKIYOU COUNTY PUBLIC WORKS

1312 FAIRLANE ROAD

YREKA, CA 96097

SPEED DATA ANALYSIS

Location

PM 1.8

7/21/25



Latitude: 41.638531

Longitude: -122.409348

Analysis Time



Start

7/21/2025

1:52 PM

End

7/30/2025

11:59 AM

Vehicles Analyzed



1,931

Speed Limit



55

Total Enforceable



2

Average Speed



33

% Enforceable



0%

Fastest Speed



61

Enforcement

LOW

Slowest Speed



8