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## Speed Data for Speed Hump Request on Cedar Prairie Dr

### Background

This study was initiated in response to a citizen request for the installation of speed humps on Cedar Prairie Drive. Data gathered from the study area is provided below. Refer to Figure 1 for an aerial view of the study corridor.



*Figure 1 Aerial of Study Corridor*

### Existing Conditions

- **Segment Length:** 1200 ft
- **Posted Speed Limit:** 25 mph
- **Traffic Volume:** Average Daily Traffic Volume: 530
- **Land Use:** Residential

## Data Collection

- Spot Speed and Traffic Volume were collected by Public Works Department between 5/13/25 to 5/16/25 (Provided in **Attachment A**).
- Crash data was obtained from the TxDOT Crash Records Information System (C.R.I.S.) for a study period between 2024 and 2025. No crashes occurred along the study corridor during the study period.

## 85<sup>th</sup> Percentile

The 85<sup>th</sup> percentile speed for the eastbound and westbound approach of the study stretch on Cedar Prairie Dr was determined from the spot speed data collected. A summary of the 85<sup>th</sup> percentile data collected is provided in **Table 1**.

*Table 1 85th Percentile Speed Data*

Cedar Prairie Dr	Eastbound	Westbound
85 <sup>th</sup> Percentile Speed	29 mph	30 mph



*Figure 2 Cross Section of Study Corridor*

The study determined that the 85th percentile speed, which represents the speed below which 85 percent of the traffic volume was 30 mph.

For Project:	Cedar Prairie WB				
Project Notes:					
Location/Name:	Incoming				
Report Generated:	5/19/2025	5:12:32 PM			
Speed Intervals	1 MPH				
Time Intervals	Instant				
Traffic Report From	5/13/2025	1:00:00 PM	through	5/16/2025	12:59:59 PM
85th Percentile Speed	30 MPH				
85th Percentile Vehicles	761				
Max Speed	48 MPH	on	5/14/2025	5:47:10 AM	
Total Vehicles	895				
AADT:	298				

Volumes - weekly counts

Time	5 Day	7 Day
Average Daily	223	223
AM Peak	5:00 AM 15	15
PM Peak	4:00 PM 28	28

Speed

Speed Limit:	25	
85th Percentile Speed:	30	
50th Percentile Speed:	26	
10 MPH Pace Interval:	21.0 MPH	31.0 MPH
Average Speed:	25.54	

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Count over limit	N/A	77	167	159	54	N/A	N/A
% over limit	N/A	41.0	55.7	52.3	52.4	N/A	N/A
Avg Speeder	N/A	28.5	29.3	28.9	29.5	N/A	N/A
Avg Speed	N/A	24.4	26.1	25.7	25.8	N/A	N/A

Class Counts

	Number	%
VEH_SM	6	0.7
VEH_MED	857	95.8
VEH_LG	32	3.6
[VEH_SM=motorcycle,	VEH_MED = sedan,	VEH_LG = truck]

For Project:	Cedar Prairie EB					
Project Notes:						
Location/Name:	Incoming					
Report Generated:	5/19/2025	5:18:25 PM				
Speed Intervals	1 MPH					
Time Intervals	Instant					
Traffic Report From	5/13/2025	1:00:00 PM	through	5/16/2025	12:59:59 PM	
85th Percentile Speed	29 MPH					
85th Percentile Vehicles	592					
Max Speed	37 MPH	on	5/15/2025	7:37:13 AM		
Total Vehicles	697					
AADT:	232					

Volumes - weekly counts

Time	5 Day	7 Day
Average Daily	174	174
AM Peak	6:00 AM 30	30
PM Peak	2:00 PM 21	21

Speed

Speed Limit:	25	
85th Percentile Speed:	29	
50th Percentile Speed:	24	
10 MPH Pace Interval:	18.0 MPH	28.0 MPH
Average Speed:	23.79	

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
Count over limit	N/A	28	92	92	50	N/A	N/A
% over limit	N/A	26.9	36.4	39.1	47.6	N/A	N/A
Avg Speeder	N/A	27.9	29.2	29.1	28.4	N/A	N/A
Avg Speed	N/A	22.3	23.9	24.0	24.6	N/A	N/A

Class Counts

	Number	%
VEH_SM	1	0.1
VEH_MED	661	94.8
VEH_LG	35	5
[VEH_SM=motorcycle,	VEH_MED = sedan,	VEH_LG = truck]