

Town of Meeteetse WYO 120 & 290 Study

Preliminary Findings

Road Characteristics

Road: WYO 120 WYO 290

Functional Classification: Principal Arterial Major Collector

Posted Speed: 30 MPH

Terrain: Level / Rolling

Geometry Review: Roadway geometry does not present an inherent safety concern.

Public Right of Way: 80'

Crash Data

Crash data was provided by WYDOT spanning from 2013—2022 and has been displayed below as the red circles. Based on the data there is nothing that stands out as being a major contributing factor to safety within the study area.



Traffic Data

Traffic data was sourced from both WYDOT as well collected directly in the field for use in this project. Historical traffic volumes along WYO 120 and WYO 290 were provided by WYDOT to provide baseline segment data and inform growth rates established for traffic projections.

A traffic count was conducted in September of 2023 at the intersection of WYO 120 and WYO 290 in order to capture the vehicle turning movements throughout the day.

WYDOT's standard design year used in planning projects is 20 year s. Thus, the design year used for traffic projections was 2044.

Collection in September 2023

Road	ADT	Eastbound	Westbound	Northbound	Southbound	Vehicle Distribution		Weekday AM Peak			Weekday PM Peak		
						Trucks	1-2 axle	Direction	Time	Volume	Direction	Time	Volume
WYO 120 - East Leg	1433	41.3%	58.7%	N/A	N/A	15.0%	85.0%	EB	9:00 AM	84	WB	5:00 PM	155
WYO 120 - West Leg	2301			N/A	N/A	13.0%	87.0%						
WYO 290	1533	N/A	N/A	6.0%	94.0%	16.0%	13.0%	SB	9:00 AM	51	SB	5:00 PM	41
Park Avenue	*	N/A	N/A			0.0%	100.0%						

* Peak counts were collected, but ADT was not
N/A - Not applicable due to the direction of the road

WYO 120 and WYO 290 Segment Level of Service Analysis

Road Segment	Direction of Travel	Existing LOS	Design Year LOS
WYO 120 East of Intersection	Eastbound	A	B
WYO 120 East of Intersection	Westbound	A	B
WYO 120 West of Intersection	Eastbound	A	B
WYO 120 West of Intersection	Westbound	A	B
WYO 290 South of Intersection	Northbound	A	A
WYO 290 South of Intersection	Southbound	A	A

WYO 120 and WYO 290 Intersection Level of Service Analysis

Direction of Travel	Existing Traffic Volumes			Design Year Projected Traffic Volumes, 2044		
	AM Peak LOS, Delay (s)	Midday Peak LOS, Delay (s)	PM Peak LOS, Delay (s)	AM Peak LOS, Delay (s)	Midday Peak LOS, Delay (s)	PM Peak LOS, Delay (s)
Eastbound	A, 0.2	A, 0.2	A, 0.1	A, 0.1	A, 0.1	A, 0.0
Westbound	A, 1.0	A, 1.3	A, 0.6	A, 1.9	A, 2.4	A, 1.2
Northbound	B, 10.3	B, 10.3	B, 11.0	B, 11.7	B, 11.9	B, 14.3
Southbound	A, 9.8	B, 10.4	B, 10.6	B, 11.4	B, 11.8	B, 12.9

