

Project ID 1315 SH 99 Ramp Improvement Project Year 2031

Straight Growth from 2022:

Year	ADT	Growth Rate	Known Count
2022	7543	2.42%	1.0242
2023	7726		
2024	7912		
2025	8104		
2026	8300		
2027	8501		
2028	8707		
2029	8917		
2030	9133		
2031	9354		

Modified Growth Table:

Year	ADT	Growth Rate	Known Count
2022	7543	2.42%	1.0242
2023	8566		Known Count
2024	8773		
2025	8986		
2026	9203		
2027	9426		
2028	9654		
2029	9888		
2030	10127		
2031	10372		

Notes:

Volume Count Report

LOCATION INFO	
Location ID	170RP99122
Type	SPOT
Funct'l Class	2
Located On	SH0099
Loc On Alias	SH0099-GS
Direction	RAMP
County	Montgomery
Community	-
MPO ID	-
HPMS ID	TO BE ADDED TO ANCILLARY
Agency	Texas DOT

Time	15-min Interval				Hourly Count
	1st	2nd	3rd	4th	
0:00-1:00	7	6	8	9	30
1:00-2:00	10	13	10	9	42
2:00-3:00	11	10	8	13	42
3:00-4:00	11	12	10	14	47
4:00-5:00	12	16	18	21	67
5:00-6:00	28	52	69	76	225
6:00-7:00	115	168	213	276	772
7:00-8:00	299	328	357	345	1,329
8:00-9:00	318	268	189	141	916
9:00-10:00	148	138	136	141	563
10:00-11:00	128	114	105	90	437
11:00-12:00	93	97	88	92	370
12:00-13:00	96	99	108	115	418
13:00-14:00	129	142	157	138	566
14:00-15:00	125	111	109	118	463
15:00-16:00	108	115	138	156	517
16:00-17:00	179	163	168	176	686
17:00-18:00	196	178	163	147	684
18:00-19:00	137	131	127	120	515
19:00-20:00	112	108	97	85	402
20:00-21:00	74	68	52	43	237
21:00-22:00	47	39	30	26	142
22:00-23:00	19	23	20	18	80
23:00-24:00	14	10	8	5	37
Total					9,587
AADT					9,165
AM Peak					07:15-08:15 1,348
PM Peak					16:30-17:30 718

Peak Volume	Peak	Year	Growth Rate	Peak Vol @ Year Open to Traffic
772		2022		
1329	Peak	2022	5224	3.60%
916		2023	5419	
3017		2024	5614	
		2025	5816	
		2026	6026	
		2027	6242	
		2028	6467	
517		2029	6700	
686		2030	6941	
684		2031	7191	
515				
2402				

5419 Total Peak Vol (2023)

COUNT DATA INFO	
Count Status	Accepted
Holiday	No
Start Date	Mon 2/27/2023
End Date	Tue 2/28/2023
Start Time	5:45:00 AM
End Time	5:45:00 AM
Direction	
Notes	
Station	
Study	
Speed Limit	
Description	
Sensor Type	NA
Source	
Latitude,Longitude	30.132386, -95.246303

The screenshot shows the Traffic Count (TCDS) software interface. On the left, there are several data tables including AADT, Travel Demand Model, VOLUME COUNT, SPEED, WEIGH-IN-MOTION, GAP, PARTIAL COUNT, and NOTES/FILES. The main area is a map showing the location of the traffic count spot on Grand Pkwy (Toll road) near Texas 99 Frontage Rd. A popup window displays location details: Location ID: 170RP99122, Located On: SH0099, Direction: RAMP, AADT: 8566 (2023).

Posted Speed Limit	45	
Estimated Free Flow Speed before Improvement	38.25	85%
Average Peak Period Corridor Speed before Improvement	26.775	70%
Average RDWY Speed after improvements	45	100%

Single directional travel lane, lots of driveways (potential stops). Makes average travel speed just under speed limit for average corridor travel. Heavy Mix of school traffic and normal peak travel commutes