

2022 Transportation Conformity

Appendix 12.26: Supplement Files

2014 HPMS FACTOR DEVELOPMENT - TAFT Model

A	TAFT (ASWT ¹) VMT		
	Local Roads ²	Non-Local Roads (Including Toll Roads)	All Roads
	21,584,667	183,091,418	204,676,085
20,998,922	180,721,839	201,720,761	
	11.79%	11.62%	

B	HPMS (AADT ³)		
	Local Roads ⁴	Non-Local Roads (Including Toll Roads)	All Roads
	9,635,561	168,862,137	178,497,698
	170,528,901	180,164,462	

AADT to ASWT Conversion Factor
1.048

C	HPMS (ASWT)		
	Local Roads	Non-Local Roads (Including Toll Roads)	All Roads
	10,098,067	176,967,520	187,065,587
	178,714,289	188,812,356	
	5.71%	5.65%	

D	HPMS FACTOR		
	Local Roads	Non-Local Roads (Including Toll Roads)	All Roads
	0.4678	0.9666	0.9140
0.4809	0.9889	0.9360	

Previous HPMS Factor (Non-Local Roads)
0.9703

¹ASWT = Average School Season Weekday Traffic ²Intrazonals and Approach Links
³AADT = Average Annual Daily Traffic ⁴Rural and Urban Local

2014 HPMS FACTOR DEVELOPMENT - TAFT Model

- A. Vehicle miles of travel (VMT) is from the North Central Texas Council of Governments (NCTCOG) 2014 roadway network
- B. HPMS VMT provided by the Texas Department of Transportation. Conversion factor calculated from 2014 Automatic Traffic Recorder data
- C. TxDOT HPMS data with conversion factor applied
- D. Result of dividing adjusted HPMS VMT by NCTCOG TAFT VMT

¹ASWT = Average School Season Weekday Traffic ²Intrazonals and Approach Links

³AADT = Average Annual Daily Traffic ⁴Rural and Urban Local

Seasonal and Daily Adjustment Factors - ATR data averaged over five years (2015 to 2019)

	County Groups	Midweek
ASWT to August (Summer)	Core/Urban (Dallas/Tarrant)	1.011
	Rural (Collin/Denton/Rockwall)	0.992
	Perimeter (Other Counties)	1.031

Hourly Distribution Factors - ATR data averaged over five years (2015 to 2019)

Hours	County Groups		
	Core/Urban	Rural	Perimeter
12:00 a.m. – 12:59 a.m.	1.1%	0.6%	1.2%
1:00 a.m. – 1:59 a.m.	0.7%	0.4%	0.9%
2:00 a.m. – 2:59 a.m.	0.6%	0.3%	0.8%
3:00 a.m. – 3:59 a.m.	0.6%	0.2%	0.9%
4:00 a.m. – 4:59 a.m.	1.1%	0.4%	1.4%
5:00 a.m. – 5:59 a.m.	2.8%	1.2%	2.7%
6:00 a.m. – 6:29 a.m.	2.7%	1.6%	2.2%
6:30 a.m. – 6:59 a.m.	2.7%	1.6%	2.2%
7:00 a.m. – 7:59 a.m.	6.7%	5.7%	5.9%
8:00 a.m. – 8:59 a.m.	6.4%	5.8%	5.6%
9:00 a.m. – 9:59 a.m.	5.4%	5.1%	5.4%
10:00 a.m. – 10:59 a.m.	4.9%	4.8%	5.5%
11:00 a.m. – 11:59 a.m.	4.9%	5.4%	5.6%
12:00 p.m. – 12:59 p.m.	5.2%	6.1%	5.7%
1:00 p.m. – 1:59 p.m.	5.3%	6.2%	5.9%
2:00 p.m. – 2:59 p.m.	5.7%	6.2%	6.1%
3:00 p.m. – 3:59 p.m.	6.4%	6.7%	6.6%
4:00 p.m. – 4:59 p.m.	7.0%	7.7%	7.2%
5:00 p.m. – 5:59 p.m.	7.2%	8.9%	7.4%
6:00 p.m. – 6:29 p.m.	3.2%	4.0%	3.1%
6:30 p.m. – 6:59 p.m.	3.2%	4.0%	3.1%
7:00 p.m. – 7:59 p.m.	5.0%	6.0%	4.7%
8:00 p.m. – 8:59 p.m.	3.9%	4.5%	3.6%
9:00 p.m. – 9:59 p.m.	3.2%	3.3%	2.9%
10:00 p.m. – 10:59 p.m.	2.5%	2.0%	2.2%
11:00 p.m. – 11:59 p.m.	1.7%	1.1%	1.6%

2023 Center-line Miles

Facility Type	May-22	Dec-22	Change
FREEWAY	810	810	0.0%
TOLLWAY	146	146	0.0%
COLLECTOR/DISTRIBUTOR	8	8	0.0%
TOLLED COLLECTOR/DISTRIBUTOR	0	0	0.0%
EXPRESS LANE	4	4	3.9%
PRINCIPAL	1,937	1,937	0.0%
MINOR	4,439	4,439	0.0%
COLLECTOR	7,934	7,946	0.2%
RAMP	1,090	1,085	-0.4%
FRONTAGE	1,422	1,418	-0.2%
HOV	21	22	2.0%
HOV EXPRESS LANE	6	6	3.6%
MANAGED LANE	101	104	2.9%
TECHNOLOGY LANE	0	0	0.0%
UNSPECIFIED	0	0	0.0%
ROADWAY NETWORK	17,918	17,925	0.0%

2023 Lane Miles

Facility Type	May-22	Dec-22	Change
FREEWAY	4,885	4,884	0.0%
TOLLWAY	982	981	-0.1%
COLLECTOR/DISTRIBUTOR	38	38	0.0%
TOLLED COLLECTOR/DISTRIBUTOR	0	0	0.0%
EXPRESS LANE	13	13	2.5%
PRINCIPAL	7,384	7,384	0.0%
MINOR	13,296	13,290	0.0%
COLLECTOR	17,725	17,770	0.3%
RAMP	1,311	1,303	-0.6%
FRONTAGE	3,215	3,207	-0.2%
HOV	32	33	1.8%
HOV EXPRESS LANE	12	12	3.6%
MANAGED LANE	294	299	1.6%
TECHNOLOGY LANE	0	0	0.0%
UNSPECIFIED	0	0	0.0%
ROADWAY NETWORK	49,185	49,214	0.1%

2023 VMT

Facility Type	AM			PM			OP			DAILY		
	May-22	Dec-22	Change	May-22	Dec-22	Change	May-22	Dec-22	Change	May-22	Dec-22	Change
FREEWAY	13,435,794	13,411,073	-0.2%	21,041,241	21,014,715	-0.1%	49,621,854	49,503,003	-0.2%	84,098,889	83,928,790	-0.2%
TOLLWAY	2,952,701	2,945,309	-0.3%	4,191,510	4,181,484	-0.2%	7,179,350	7,143,510	-0.5%	14,323,560	14,270,303	-0.4%
COLLECTOR/DISTRIBUTOR	112,057	111,816	-0.2%	164,255	163,984	-0.2%	391,449	390,757	-0.2%	667,761	666,557	-0.2%
TOLLED COLLECTOR/DISTRIBUTOR	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
EXPRESS LANE	58,334	61,036	4.6%	75,906	77,674	2.3%	0	0	0.0%	134,241	138,710	3.3%
PRINCIPAL	7,474,828	7,466,681	-0.1%	11,770,148	11,755,789	-0.1%	22,143,339	22,126,395	-0.1%	41,388,315	41,348,865	-0.1%
MINOR	8,770,632	8,762,659	-0.1%	13,495,224	13,477,055	-0.1%	22,380,579	22,369,305	-0.1%	44,646,435	44,609,019	-0.1%
COLLECTOR	3,146,827	3,146,557	0.0%	4,769,530	4,767,058	-0.1%	7,401,973	7,401,911	0.0%	15,318,329	15,315,527	0.0%
RAMP	1,763,834	1,738,716	-1.4%	2,640,396	2,608,419	-1.2%	5,728,369	5,641,654	-1.5%	10,132,599	9,988,788	-1.4%
FRONTAGE	1,781,501	1,780,096	-0.1%	2,683,256	2,674,280	-0.3%	4,865,721	4,852,375	-0.3%	9,330,478	9,306,751	-0.3%
HOV	60,980	61,896	1.5%	78,692	79,586	1.1%	100,069	107,431	7.4%	239,741	248,913	3.8%
HOV EXPRESS LANE	27,478	28,742	4.6%	50,810	52,107	2.6%	99,229	101,294	2.1%	177,516	182,144	2.6%
MANAGED LANE	1,012,671	1,031,301	1.8%	1,489,492	1,528,157	2.6%	3,546,538	3,692,754	4.1%	6,048,702	6,252,213	3.4%
TECHNOLOGY LANE	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
UNSPECIFIED	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
ROADWAY NETWORK	40,597,637	40,545,883	-0.1%	62,450,462	62,380,309	-0.1%	123,458,468	123,330,388	-0.1%	226,506,567	226,256,580	-0.1%

2045 Center-line Miles

Facility Type	May-22	Dec-22	Change
FREEWAY	955	956	0.0%
TOLLWAY	177	177	0.0%
COLLECTOR/DISTRIBUTOR	13	13	0.0%
TOLLED COLLECTOR/DISTRIBUTOR	4	4	0.0%
EXPRESS LANE	8	8	2.1%
PRINCIPAL	1,851	1,852	0.0%
MINOR	4,804	4,802	0.0%
COLLECTOR	7,777	7,783	0.1%
RAMP	1,274	1,270	-0.4%
FRONTAGE	2,025	2,025	0.0%
HOV	0	0	0.0%
HOV EXPRESS LANE	0	0	0.0%
MANAGED LANE	167	172	2.9%
TECHNOLOGY LANE	17	17	0.5%
UNSPECIFIED	0	0	0.0%
ROADWAY NETWORK	19,073	19,078	0.0%

2045 Lane Miles

Facility Type	May-22	Dec-22	Change
FREEWAY	6,592	6,592	0.0%
TOLLWAY	1,301	1,299	-0.1%
COLLECTOR/DISTRIBUTOR	74	74	0.0%
TOLLED COLLECTOR/DISTRIBUTOR	18	18	0.0%
EXPRESS LANE	24	24	1.4%
PRINCIPAL	7,895	7,897	0.0%
MINOR	16,642	16,640	0.0%
COLLECTOR	17,484	17,508	0.1%
RAMP	1,568	1,558	-0.6%
FRONTAGE	4,830	4,828	0.0%
HOV	0	0	0.0%
HOV EXPRESS LANE	0	0	0.0%
MANAGED LANE	545	555	1.7%
TECHNOLOGY LANE	34	34	0.5%
UNSPECIFIED	0	0	0.0%
ROADWAY NETWORK	57,007	57,027	0.0%

2045 VMT

Facility Type	AM			PM			OP			DAILY		
	May-22	Dec-22	Change	May-22	Dec-22	Change	May-22	Dec-22	Change	May-22	Dec-22	Change
FREEWAY	19,943,038	19,864,493	-0.4%	31,074,826	31,013,373	-0.2%	68,437,456	68,256,533	-0.3%	119,455,319	119,134,399	-0.3%
TOLLWAY	4,172,234	4,145,797	-0.6%	5,964,604	5,936,172	-0.5%	10,152,331	10,075,395	-0.8%	20,289,169	20,157,364	-0.6%
COLLECTOR/DISTRIBUTOR	258,924	258,035	-0.3%	374,790	373,858	-0.2%	789,499	789,303	0.0%	1,423,214	1,421,196	-0.1%
TOLLED COLLECTOR/DISTRIBUTOR	42,203	41,984	-0.5%	60,210	60,095	-0.2%	26,790	26,743	-0.2%	129,203	128,822	-0.3%
EXPRESS LANE	125,051	128,348	2.6%	152,816	154,476	1.1%	0	0	0.0%	277,867	282,824	1.8%
PRINCIPAL	9,103,921	9,094,107	-0.1%	14,084,071	14,069,093	-0.1%	27,413,465	27,375,806	-0.1%	50,601,456	50,539,006	-0.1%
MINOR	13,573,786	13,527,598	-0.3%	20,268,894	20,219,515	-0.2%	33,403,342	33,326,182	-0.2%	67,246,022	67,073,296	-0.3%
COLLECTOR	4,426,219	4,430,986	0.1%	6,511,234	6,524,783	0.2%	9,899,408	9,928,835	0.3%	20,836,861	20,884,603	0.2%
RAMP	2,626,982	2,590,116	-1.4%	3,905,023	3,842,848	-1.6%	8,017,191	7,860,427	-2.0%	14,549,196	14,293,392	-1.8%
FRONTAGE	3,401,989	3,400,639	0.0%	4,934,610	4,940,821	0.1%	8,534,973	8,548,969	0.2%	16,871,571	16,890,429	0.1%
HOV	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
HOV EXPRESS LANE	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
MANAGED LANE	1,939,919	1,964,794	1.3%	3,094,090	3,119,015	0.8%	7,881,456	8,011,766	1.7%	12,915,465	13,095,574	1.4%
TECHNOLOGY LANE	119,201	174,651	46.5%	237,489	275,026	15.8%	564,205	672,018	19.1%	920,895	1,121,695	21.8%
UNSPECIFIED	0	0	0.0%	0	0	0.0%	0	0	0.0%	0	0	0.0%
ROADWAY NETWORK	59,733,465	59,621,548	-0.2%	90,662,656	90,529,074	-0.1%	175,120,116	174,871,978	-0.1%	325,516,238	325,022,599	-0.2%

2023 VMT by County														
	Collin	Dallas	Denton	Ellis	Hood	Hunt	Johnson	Kaufman	Parker	Rockwall	Tarrant	Wise	10 County Total	12 County Total
May-22														
FREEWAY	4,221,240	36,566,747	6,035,448	4,293,077	0	1,313,286	1,119,464	3,408,825	1,896,198	1,273,793	23,862,218	108,591	82,785,603	84,098,889
TOLLWAY	4,799,920	5,729,305	2,233,930	10,405	0	0	152,196	0	0	0	1,397,804	0	14,323,560	14,323,560
COLLECTOR/DISTRIBUTOR	10,493	263,604	168,789	0	0	0	0	0	0	0	224,874	0	667,761	667,761
TOLLED COLLECTOR/DISTRIBUTOR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXPRESS LANE	0	134,241	0	0	0	0	0	0	0	0	0	0	134,241	134,241
PRINCIPAL	5,296,667	12,459,234	5,423,429	1,139,114	529,465	1,374,367	1,045,299	1,099,230	626,554	527,467	9,710,835	2,156,653	39,484,482	41,388,315
MINOR	8,875,790	13,547,547	5,376,008	1,482,421	893,561	1,031,981	1,574,369	1,631,239	1,645,835	717,654	6,972,337	897,695	42,720,893	44,646,435
COLLECTOR	1,756,724	5,119,940	1,789,645	517,211	229,247	123,591	594,002	247,668	330,871	175,809	4,216,398	217,222	14,965,491	15,318,329
RAMP	899,391	4,735,790	479,234	131,488	7,571	25,341	54,706	72,257	66,009	37,627	3,598,914	24,272	10,099,688	10,132,599
FRONTAGE	1,871,497	3,739,367	1,115,087	172,663	0	39,316	61,512	48,123	73,088	76,751	2,121,793	11,282	9,291,163	9,330,478
HOV	102,146	137,594	0	0	0	0	0	0	0	0	0	0	239,741	239,741
HOV EXPRESS LANE	0	177,516	0	0	0	0	0	0	0	0	0	0	177,516	177,516
MANAGED LANE	0	2,745,006	170,992	0	0	0	0	0	0	0	3,132,703	0	6,048,702	6,048,702
TECHNOLOGY LANE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROADWAY NETWORK	27,833,868	85,355,892	22,792,561	7,746,380	1,659,844	3,907,883	4,601,547	6,507,342	4,638,555	2,809,102	55,237,877	3,415,715	220,938,840	226,506,567
Dec-22														
FREEWAY	4,221,740	36,476,902	6,032,047	4,298,404	0	1,315,357	1,117,965	3,419,001	1,894,880	1,275,339	23,768,559	108,595	82,613,433	83,928,790
TOLLWAY	4,791,628	5,705,983	2,215,719	10,336	0	0	152,009	0	0	0	1,394,628	0	14,270,303	14,270,303
COLLECTOR/DISTRIBUTOR	10,469	264,080	168,334	0	0	0	0	0	0	0	223,675	0	666,557	666,557
TOLLED COLLECTOR/DISTRIBUTOR	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EXPRESS LANE	0	138,710	0	0	0	0	0	0	0	0	0	0	138,710	138,710
PRINCIPAL	5,292,230	12,444,413	5,419,171	1,138,492	529,824	1,374,880	1,047,329	1,099,215	627,485	527,950	9,689,464	2,158,412	39,444,161	41,348,865
MINOR	8,880,020	13,528,803	5,373,902	1,483,355	893,495	1,032,204	1,572,591	1,627,920	1,646,005	717,622	6,955,142	897,960	42,683,320	44,609,019
COLLECTOR	1,757,507	5,119,816	1,789,854	517,493	229,192	123,589	592,168	248,112	331,050	175,831	4,213,324	217,590	14,962,745	15,315,527
RAMP	896,695	4,692,374	470,529	131,536	7,563	25,344	54,659	72,432	65,997	37,591	3,509,740	24,327	9,955,881	9,988,788
FRONTAGE	1,869,769	3,729,129	1,111,961	172,871	0	39,308	61,479	40,198	73,087	76,664	2,121,000	11,284	9,267,443	9,306,751
HOV	107,216	141,697	0	0	0	0	0	0	0	0	0	0	248,913	248,913
HOV EXPRESS LANE	0	182,144	0	0	0	0	0	0	0	0	0	0	182,144	182,144
MANAGED LANE	0	2,861,434	187,230	0	0	0	0	0	0	0	3,203,549	0	6,252,213	6,252,213
TECHNOLOGY LANE	0	0	0	0	0	0	0	0	0	0	0	0	0	0
ROADWAY NETWORK	27,827,273	85,285,485	22,768,747	7,752,487	1,660,074	3,910,683	4,598,201	6,506,879	4,638,504	2,810,998	55,079,081	3,418,168	220,685,823	226,256,580