Exhibit 2 – Vehicle Classification Counts

Weekday vehicle classification counts from GDOT were obtained for the years 2008 through 2010 for the entire state of Georgia. The counts were stratified by two areas, the counts within the 13-county portion of the Atlanta MPO area, and the remaining statewide counts. In order to provide a reasonable sample, the remaining statewide counts were used to factor the outer 7-county portion of the nonattainment area. The vehicle classification counts collected were stratified based on the FHWA vehicle classifications. The counts were then summarized into the 6 HPMS vehicle type categories. This result was then summarized for the three years. The percent by vehicle type by road type based on functional classification was calculated. The counts by the area type (urban versus rural) were combined since FHWA eliminated the urban/rural area type distinction from HPMS functional classifications beginning with the 2009 data, reported in 2010¹.

Table 1, below, lists the counts by year for the 13-county area. Table 2 lists the final factors which were applied to the 13-county area VMT by vehicle type by road type based on the counts. Table 3 lists the counts by year for the 7-county area. Table 4 lists the final factors which were applied to the 7-county area VMT by vehicle type by road type based on the counts. These values were used to weight the VMT from the travel demand model by road type by vehicle type for input into AADVMT worksheet importer.

¹ Guidance for the Functional Classification of Highways (updated), Federal Highway Administration, October 14, 2008

Table 1 – GDOT Vehicle Classification Counts13-County Atlanta MPO

2008 13	County Atlanta MPO Area										
				Weekda	y Counts	Р			Percent by Road Type		
				Rural	Urban	Urban	Rural	Rural	Urban	Urban	
			Rural	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	
		FHWA	Restricted	Access	Access	Access	Access	Access	Access	Access	
Code	HPMS Vehicle Type	Veh Class	Access (FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)	(FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)	
10	Motorcycles	Class 1	16,858	184,014	1,321,610	154,567	0.2%	0.4%	0.2%	0.2%	
20	Passenger Cars	Class 2	5,033,881	33,440,176	441,682,775	62,560,573	63.1%	70.0%	74.6%	79.0%	
30	Other 2 axle-4 tire vehicles	Class 3	1,589,435	8,589,583	94,611,416	12,979,814	19.9%	18.0%	16.0%	16.4%	
40	Buses	Class 4	61,002	347,125	4,273,934	596,264	0.8%	0.7%	0.7%	0.8%	
50	Single Unit Trucks	Class 5-7	323,988	1,948,590	18,577,894	2,159,833	4.1%	4.1%	3.1%	2.7%	
60	Combination Trucks	Class 8-13	952,385	3,242,388	31,896,705	759,298	11.9%	6.8%	5.4%	1.0%	
	Total		7,977,549	47,751,876	592,364,334	79,210,349	100%	100%	100%	100%	
2009 13	County Atlanta MPO Area										
				Weekda	Weekday Counts			Percent b	y Road Type		
				Rural	Urban	Urban	Rural	Rural	Urban	Urban	
			Rural	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	
		FHWA	Restricted	Access	Access	Access	Access	Access	Access	Access	
Code	HPMS Vehicle Type	Veh Class	Access (FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)	(FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)	
10	Motorcycles	Class 1	51,352	101,595	1,540,072	240,506	0.2%	0.2%	0.2%	0.2%	
20	Passenger Cars	Class 2	15,065,261	40,708,739	573,832,909	98,353,063	65.0%	74.0%	75.7%	79.7%	
30	Other 2 axle-4 tire vehicles	Class 3	4,297,018	9,664,212	119,721,238	20,115,480	18.5%	17.6%	15.8%	16.3%	
40	Buses	Class 4	162,864	365,145	4,755,365	733,635	0.7%	0.7%	0.6%	0.6%	
50	Single Unit Trucks	Class 5-7	778,609	1,744,325	21,464,577	3,043,483	3.4%	3.2%	2.8%	2.5%	
60	Combination Trucks	Class 8-13	2,831,994	2,402,216	36,457,015	957,240	12.2%	4.4%	4.8%	0.8%	
			23,187,098	54,986,232	757,771,176	123,443,407	100%	100%	100%	100%	

Table 1 (continued) – GDOT Vehicle Classification Counts13-County Atlanta MPO

2010 13	County Atlanta MPO Area									
				Weekda	y Counts	y Counts		Percent by Road Type		
				Rural	Urban	Urban	Rural	Rural	Urban	Urban
			Rural	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted
		FHWA	Restricted	Access	Access	Access	Access	Access	Access	Access
Code	HPMS Vehicle Type	Veh Class	Access (FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)	(FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)
10	Motorcycles	Class 1	12,376	36,254	710,183	121,758	0.3%	0.2%	0.2%	0.3%
20	Passenger Cars	Class 2	3,072,873	14,347,044	232,240,678	36,234,722	76.0%	81.9%	80.8%	84.0%
30	Other 2 axle-4 tire vehicles	Class 3	702,918	2,691,501	40,925,619	6,029,282	17.4%	15.4%	14.2%	14.0%
40	Buses	Class 4	11,738	45,390	790,705	115,939	0.3%	0.3%	0.3%	0.3%
50	Single Unit Trucks	Class 5-7	71,303	251,025	4,313,075	499,692	1.8%	1.4%	1.5%	1.2%
60	Combination Trucks	Class 8-13	170,081	157,197	8,296,213	131,598	4.2%	0.9%	2.9%	0.3%
	Total		4,041,289	17,528,411	287,276,473	43,132,991	100%	100%	100%	100%
2008-201	10 13 County Atlanta MPO	Area Sun	nmary							
				Weekda	Weekday Counts		Percent by Road Type			
				Rural	Urban	Urban	Rural	Rural	Urban	Urban
			Rural	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted
		FHWA	Restricted	Access	Access	Access	Access	Access	Access	Access
Code	HPMS Vehicle Type	Veh Class	Access (FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)	(FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)
10	Motorcycles	Class 1	80,586	321,863	3,571,865	516,831	0.2%	0.3%	0.2%	0.2%
20	Passenger Cars	Class 2	23,172,015	88,495,959	1,247,756,362	197,148,358	65.8%	73.6%	76.2%	80.2%
30	Other 2 axle-4 tire vehicles	Class 3	6,589,371	20,945,296	255,258,273	39,124,576	18.7%	17.4%	15.6%	15.9%
40	Buses	Class 4	235,604	757,660	9,820,004	1,445,838	0.7%	0.6%	0.6%	0.6%
50	Single Unit Trucks	Class 5-7	1,173,900	3,943,940	44,355,546	5,703,008	3.3%	3.3%	2.7%	2.3%
60	Combination Trucks	Class 8-13	3,954,460	5,801,801	76,649,933	1,848,136	11.2%	4.8%	4.7%	0.8%
	Total		35,205,936	120,266,519	1,637,411,983	245,786,747	100%	100%	100%	100%

Table 2 – Final Factor of VMT by Vehicle Type by Road Type13-County Atlanta MPO

Code	HPMS Vehicle Type	FHWA Veh Class	Restricted Access	Unrestricted Access	Restricted Access Factor	Unrestricted Access Factor
10	Motorcycles	Class 1	3,652,451	838,694	0.002184	0.002291
20	Passenger Cars	Class 2	1,270,928,377	285,644,317	0.759844	0.780335
30	Other 2 axle-4 tire vehicles	Class 3	261,847,644	60,069,872	0.156550	0.164101
40	Buses	Class 4	10,055,608	2,203,498	0.006012	0.006020
50	Single Unit Trucks	Class 5-7	45,529,446	9,646,948	0.027220	0.026354
60	Combination Trucks	Class 8-13	80,604,393	7,649,937	0.048191	0.020898
	Total		1,672,617,919	366,053,266	1.000000	1.000000

Table 3 – GDOT Vehicle Classification CountsStatewide minus 13-County Atlanta MPO

2008 Sta	itewide minus ARC 13 Cour	nty MPO /	Area							
				Weekda	v Counts		Percent by Road Type			
				Rural	Urban	Urban	Rural	Rural	Urban	Urban
			Rural	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted
		FHWA	Restricted	Access	Access	Access	Access	Access	Access	Access
Code	HPMS Vehicle Type	Veh Class	Access (FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)	(FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)
10	Motorcycles	Class 1	415,477	276,557	703,762	273,810	0.3%	0.4%	0.3%	0.3%
20	Passenger Cars	Class 2	78,146,859	45,813,738	134,370,835	70,721,022	55.0%	64.5%	65.4%	74.5%
30	Other 2 axle-4 tire vehicles	Class 3	23,048,320	16,181,222	37,536,241	19,040,830	16.2%	22.8%	18.3%	20.1%
40	Buses	Class 4	1,348,962	412,115	1,464,298	372,563	0.9%	0.6%	0.7%	0.4%
50	Single Unit Trucks	Class 5-7	5,177,758	3,054,596	6,643,091	2,735,728	3.6%	4.3%	3.2%	2.9%
60	Combination Trucks	Class 8-13	33,983,937	5,320,479	24,746,197	1,724,995	23.9%	7.5%	12.0%	1.8%
			142,121,313	71,058,707	205,464,424	94,868,948	100%	100%	100%	100%
2009 Sta	tewide minus ARC 13 Cour	nty MPO	Area							
				Weekda	Weekday Counts		Percent by Road Type			
				Rural	Urban	Urban	Rural	Rural	Urban	Urban
			Rural	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted
		FHWA	Restricted	Access	Access	Access	Access	Access	Access	Access
Code	HPMS Vehicle Type	Voh Class	Access (FC=1)	(EC - 27)	(FC=11-12)	(FC=14-19)	(FC=1)	(FC=2-7)	(FC=11-12)	(50 44 40)
		Ven class	Access (1 C=1)	(FC-2-7)	(FC-11-12)	(FC-14-19)	$(1 \odot 1)$		· /	(FC=14-19)
10	Motorcycles	Class 1	543,569		, ,	, ,		0.3%	, ,	(FC=14-19) 0.3%
10 20				380,461	552,296	, ,	0.3%		0.3%	
-	Motorcycles Passenger Cars	Class 1	543,569	380,461 74,033,369	552,296 123,617,071	334,712 92,974,090	0.3% 57.6%	65.0%	0.3%	0.3%
20	Motorcycles Passenger Cars	Class 1 Class 2	543,569 99,860,922	380,461 74,033,369 25,257,242	552,296 123,617,071 35,153,989	334,712 92,974,090 26,580,997	0.3% 57.6% 16.7%	65.0%	0.3% 66.5% 18.9%	0.3% 73.4%
20 30	Motorcycles Passenger Cars Other 2 axle-4 tire vehicles	Class 1 Class 2 Class 3	543,569 99,860,922 29,013,174	380,461 74,033,369 25,257,242 636,498	552,296 123,617,071 35,153,989 1,260,763	334,712 92,974,090 26,580,997 480,718	0.3% 57.6% 16.7%	65.0% 22.2% 0.6%	0.3% 66.5% 18.9%	0.3% 73.4% 21.0%
20 30 40	Motorcycles Passenger Cars Other 2 axle-4 tire vehicles Buses	Class 1 Class 2 Class 3 Class 4	543,569 99,860,922 29,013,174 1,445,231 5,931,816	380,461 74,033,369 25,257,242 636,498 4,577,695	552,296 123,617,071 35,153,989 1,260,763 5,977,298	334,712 92,974,090 26,580,997 480,718 3,774,967	0.3% 57.6% 16.7% 0.8% 3.4%	65.0% 22.2% 0.6% 4.0%	0.3% 66.5% 18.9% 0.7% 3.2%	0.3% 73.4% 21.0% 0.4%

Table 3 (continued) – GDOT Vehicle Classification CountsStatewide minus 13-County Atlanta MPO

2010 Sta	atewide minus ARC 13 Cour	nty MPO	Area								
				Weekda	v Counts			Percent b	y Road Type	v Road Type	
				Rural	Urban	Urban	Rural	Rural	Urban	Urban	
			Rural	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	
		FHWA	Restricted	Access	Access	Access	Access	Access	Access	Access	
Code	HPMS Vehicle Type	Veh Class	Access (FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)	(FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)	
10	Motorcycles	Class 1	531,781	465,637	767,240	413,477	0.3%	0.3%	0.3%	0.3%	
20	Passenger Cars	Class 2	115,785,383	90,783,273	163,511,794	103,655,999	58.1%	64.4%	68.1%	73.3%	
30	Other 2 axle-4 tire vehicles	Class 3	33,029,619	31,077,060	45,607,435	29,985,205	16.6%	22.1%	19.0%	21.2%	
40	Buses	Class 4	1,648,242	837,435	1,403,597	520,635	0.8%	0.6%	0.6%	0.4%	
50	Single Unit Trucks	Class 5-7	6,527,272	5,527,587	7,477,099	4,162,187	3.3%	3.9%	3.1%	2.9%	
60	Combination Trucks	Class 8-13	41,728,831	12,222,357	21,492,738	2,746,397	20.9%	8.7%	8.9%	1.9%	
	Total		199,251,128	140,913,349	240,259,903	141,483,900	100%	100%	100%	100%	
2008-20	10 Statewide minus ARC 13	B County I	MPO Area Sui	mmary							
				Weekda	ay Counts		Percent by Road Type				
				Rural	Urban	Urban	Rural	Rural	Urban	Urban	
			Rural	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	Restricted	Unrestricted	
		FHWA	Restricted	Access	Access	Access	Access	Access	Access	Access	
Code	HPMS Vehicle Type	Veh Class	Access (FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)	(FC=1)	(FC=2-7)	(FC=11-12)	(FC=14-19)	
10	Motorcycles	Class 1	1,490,827	1,122,655	2,023,298	1,021,999	0.3%	0.3%	0.2%	0.2%	
20	Passenger Cars	Class 2	293,793,164	210,630,380	421,499,700	267,351,111	57.7%	67.7%	73.5%	76.6%	
20 30		Class 2 Class 3	293,793,164 85,091,113							76.6% 18.6%	
				72,515,524	118,297,665	75,607,032	16.7%	20.7%	16.5%		
30	Other 2 axle-4 tire vehicles	Class 3	85,091,113	72,515,524 1,886,048	118,297,665 4,128,658	75,607,032 1,373,916	16.7% 0.9%	20.7% 0.6%	16.5% 0.7%	18.6%	
30 40	Other 2 axle-4 tire vehicles Buses	Class 3 Class 4	85,091,113 4,442,435 17,636,846	72,515,524 1,886,048 13,159,878	118,297,665 4,128,658 20,097,488	75,607,032 1,373,916	16.7% 0.9% 3.4%	20.7% 0.6% 3.8%	16.5% 0.7% 3.0%	18.6% 0.5%	

Table 4 – Final Factor of VMT by Vehicle Type by Road Type7-County Area

Code	HPMS Vehicle Type	FHWA Veh Class	Restricted Access	Unrestricted Access	Restricted Access Factor	Unrestricted Access Factor
10	Motorcycles	Class 1	3,514,125	2,144,654	0.003065	0.003113
20	Passenger Cars	Class 2	715,292,864	477,981,491	0.623953	0.693753
30	Other 2 axle-4 tire vehicles	Class 3	203,388,778	148,122,556	0.177417	0.214988
40	Buses	Class 4	8,571,093	3,259,964	0.007477	0.004732
50	Single Unit Trucks	Class 5-7	37,734,334	23,832,760	0.032916	0.034591
60	Combination Trucks	Class 8-13	177,888,021	33,638,415	0.155172	0.048824
	Total		1,146,389,215	688,979,840	1.000000	1.000000

Since the vehicle classification counts are collected using counters that do not adequately distinguish between passenger cars and SUVs, the MOVES defaults for vehicle types 20 and 30 by road type were used to redistribute the VMT. The MOVES Defaults are listed in Table 5.

	Vehicle Type									
Year	10	20	30	40	50	60				
1999	0.00390	0.58310	0.33480	0.00280	0.02610	0.04920				
2000	0.00380	0.58250	0.33600	0.00280	0.02570	0.04920				
2001	0.00340	0.58240	0.33740	0.00250	0.02590	0.04850				
2002	0.00330	0.58110	0.33850	0.00240	0.02660	0.04820				
2003	0.00330	0.57880	0.34060	0.00230	0.02690	0.04810				
2004	0.00340	0.57260	0.34600	0.00220	0.02730	0.04850				
2005	0.00360	0.57060	0.34770	0.00220	0.02710	0.04870				
2006	0.00400	0.55990	0.35850	0.00220	0.02750	0.04780				
2007	0.00450	0.55070	0.36630	0.00220	0.02790	0.04840				
2008	0.00510	0.54610	0.36980	0.00230	0.02870	0.04800				
2009	0.00530	0.54760	0.37480	0.00210	0.02660	0.04370				
2010	0.00530	0.54360	0.37770	0.00220	0.02770	0.04350				
2011	0.00530	0.53940	0.37830	0.00240	0.02970	0.04500				
2012	0.00530	0.53700	0.37740	0.00250	0.03140	0.04640				
2013	0.00520	0.53640	0.37610	0.00260	0.03240	0.04730				
2014	0.00520	0.53780	0.37370	0.00260	0.03310	0.04760				
2015	0.00511	0.54185	0.36926	0.00266	0.03358	0.04754				
2016	0.00505	0.54655	0.36414	0.00270	0.03413	0.04743				
2017	0.00500	0.55148	0.35868	0.00274	0.03465	0.04744				

Table 5 – MOVES Default Percent VMT by Vehicle Type

	Vehicle Type										
Year	10	20	30	40	50	60					
2018	0.00495	0.55719	0.35240	0.00278	0.03509	0.04759					
2019	0.00490	0.56346	0.34559	0.00281	0.03548	0.04777					
2020	0.00484	0.57033	0.33840	0.00283	0.03581	0.04779					
2021	0.00479	0.57743	0.33138	0.00285	0.03599	0.04755					
2022	0.00475	0.58459	0.32444	0.00286	0.03613	0.04723					
2023	0.00471	0.59142	0.31755	0.00288	0.03639	0.04705					
2024	0.00466	0.59782	0.31089	0.00291	0.03674	0.04698					
2025	0.00462	0.60374	0.30470	0.00294	0.03709	0.04692					
2026	0.00458	0.60921	0.29896	0.00296	0.03745	0.04684					
2027	0.00455	0.61410	0.29377	0.00300	0.03784	0.04674					
2028	0.00452	0.61852	0.28903	0.00303	0.03828	0.04662					
2029	0.00450	0.62265	0.28449	0.00307	0.03876	0.04652					
2030	0.00448	0.62625	0.28038	0.00311	0.03930	0.04648					
2031	0.00444	0.62984	0.27688	0.00313	0.03959	0.04611					
2032	0.00440	0.63303	0.27380	0.00316	0.03987	0.04574					
2033	0.00436	0.63573	0.27104	0.00319	0.04023	0.04545					
2034	0.00432	0.63812	0.26857	0.00321	0.04058	0.04519					
2035	0.00429	0.64015	0.26636	0.00324	0.04096	0.04501					
2036	0.00425	0.64184	0.26447	0.00327	0.04134	0.04483					
2037	0.00421	0.64323	0.26287	0.00330	0.04173	0.04465					
2038	0.00418	0.64417	0.26173	0.00333	0.04211	0.04447					
2039	0.00414	0.64476	0.26096	0.00336	0.04249	0.04428					

	Vehicle Type									
Year	10	20	30	40	50	60				
2040	0.00411	0.64532	0.26017	0.00340	0.04289	0.04411				
2041	0.00407	0.64586	0.25937	0.00343	0.04331	0.04396				
2042	0.00404	0.64630	0.25864	0.00346	0.04374	0.04381				
2043	0.00401	0.64666	0.25799	0.00350	0.04418	0.04366				
2044	0.00398	0.64693	0.25741	0.00353	0.04462	0.04352				
2045	0.00395	0.64711	0.25692	0.00357	0.04507	0.04338				
2046	0.00392	0.64719	0.25653	0.00360	0.04552	0.04324				
2047	0.00389	0.64720	0.25620	0.00364	0.04598	0.04310				
2048	0.00386	0.64715	0.25593	0.00368	0.04643	0.04295				
2049	0.00383	0.64704	0.25572	0.00371	0.04690	0.04281				
2050	0.00380	0.64689	0.25554	0.00375	0.04736	0.04266				