

2011 Vehicle Registration Data Analysis

MWAQC Technical Committee
November 8, 2011

2011 Vehicle Registration Data Analysis

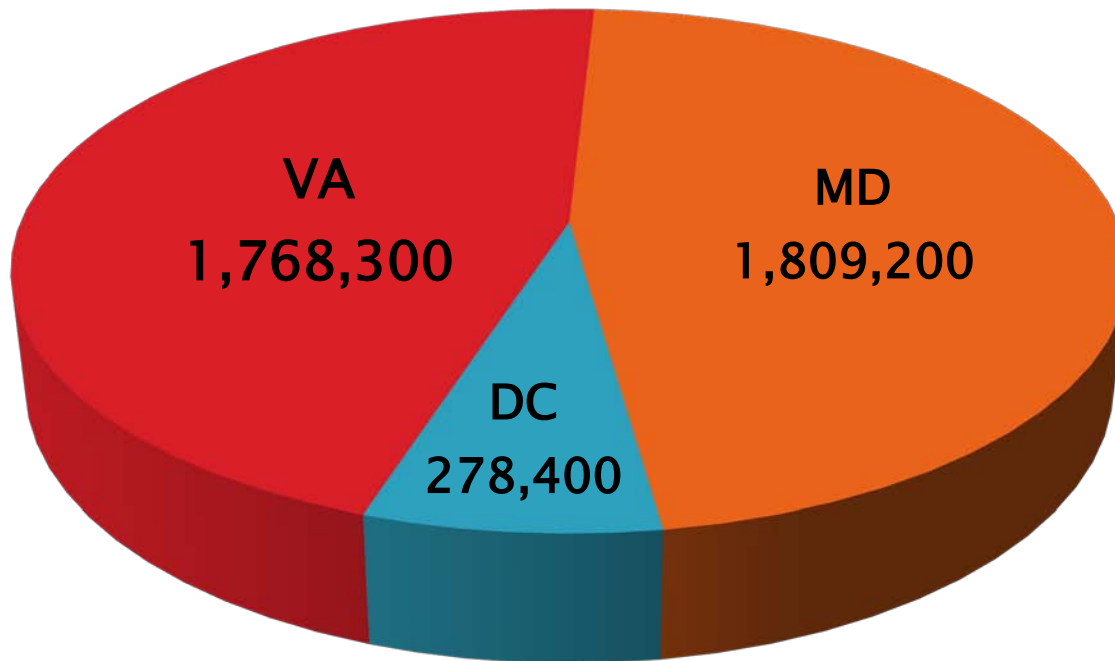
Regional Total

State	2005	2008	2011	2011-08 Difference	2011-08 % Difference
DC	258,100	270,600 *	278,400	7,800	2.9%
MD	1,684,500	1,734,900	1,809,200	74,300	4.3%
VA	1,574,100	1,699,200	1,768,300	69,100	4.1%
REGION	3,516,700	3,704,700	3,855,900	151,200	4.1%

* Estimate derived by averaging and rounding the January 2008 (269,579) and the January 2009 (271,665) figures reported by DDOE

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Regional Total



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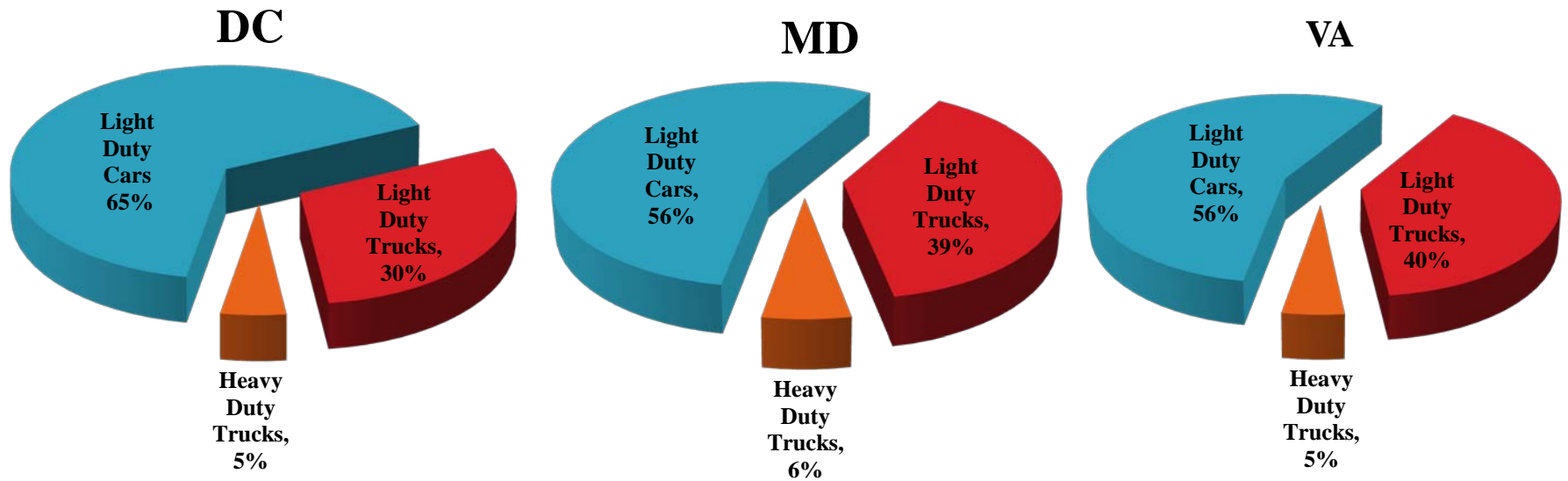
State Totals

State	Vehicle Category	Number of Decoded Records *		
		2005	2008	2011
DC	Light Duty Cars/Motorcycles	178,600	161,700	179,400
	Light Duty Trucks	63,200	67,100	82,400
	Heavy Duty Vehicles/Buses	8,900	10,600	13,100
	TOTAL	250,800	239,400	274,900
MD	Light Duty Cars/Motorcycles	936,000	935,700	961,700
	Light Duty Trucks	568,100	616,400	666,300
	Heavy Duty Vehicles/Buses	85,200	95,400	99,900
	TOTAL	1,589,400	1,647,500	1,727,900
VA	Light Duty Cars/Motorcycles	889,500	913,300	986,100
	Light Duty Trucks	549,200	608,700	697,800
	Heavy Duty Vehicles/Buses	69,800	73,600	79,600
	TOTAL	1,508,500	1,595,600	1,763,500
REGION	Light Duty Cars/Motorcycles	2,004,100	2,010,800	2,127,200
	Light Duty Trucks	1,180,600	1,292,200	1,446,500
	Heavy Duty Vehicles/Buses	164,000	179,600	192,500
	TOTAL	3,348,700	3,482,500	3,766,200

* 95 percent or higher of the registered vehicle records were successfully decoded

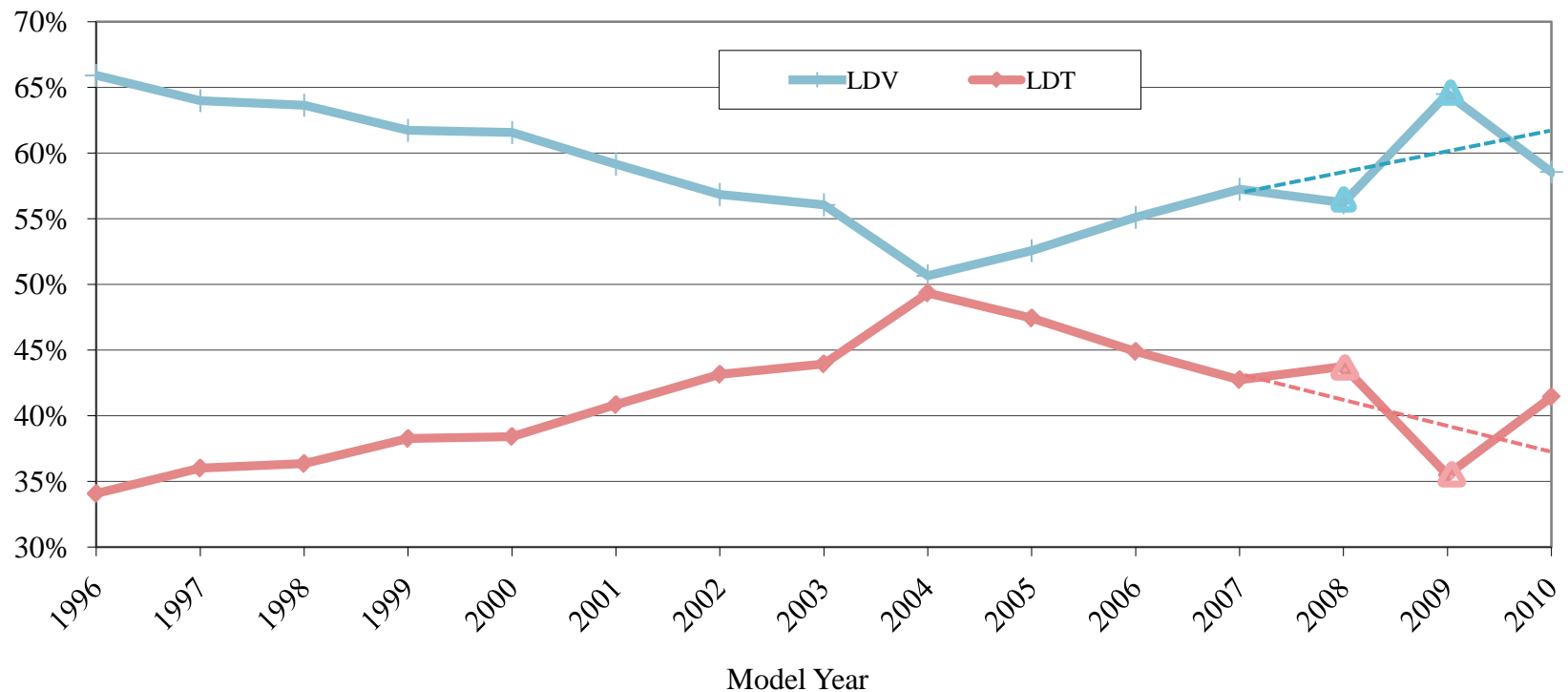
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State Totals



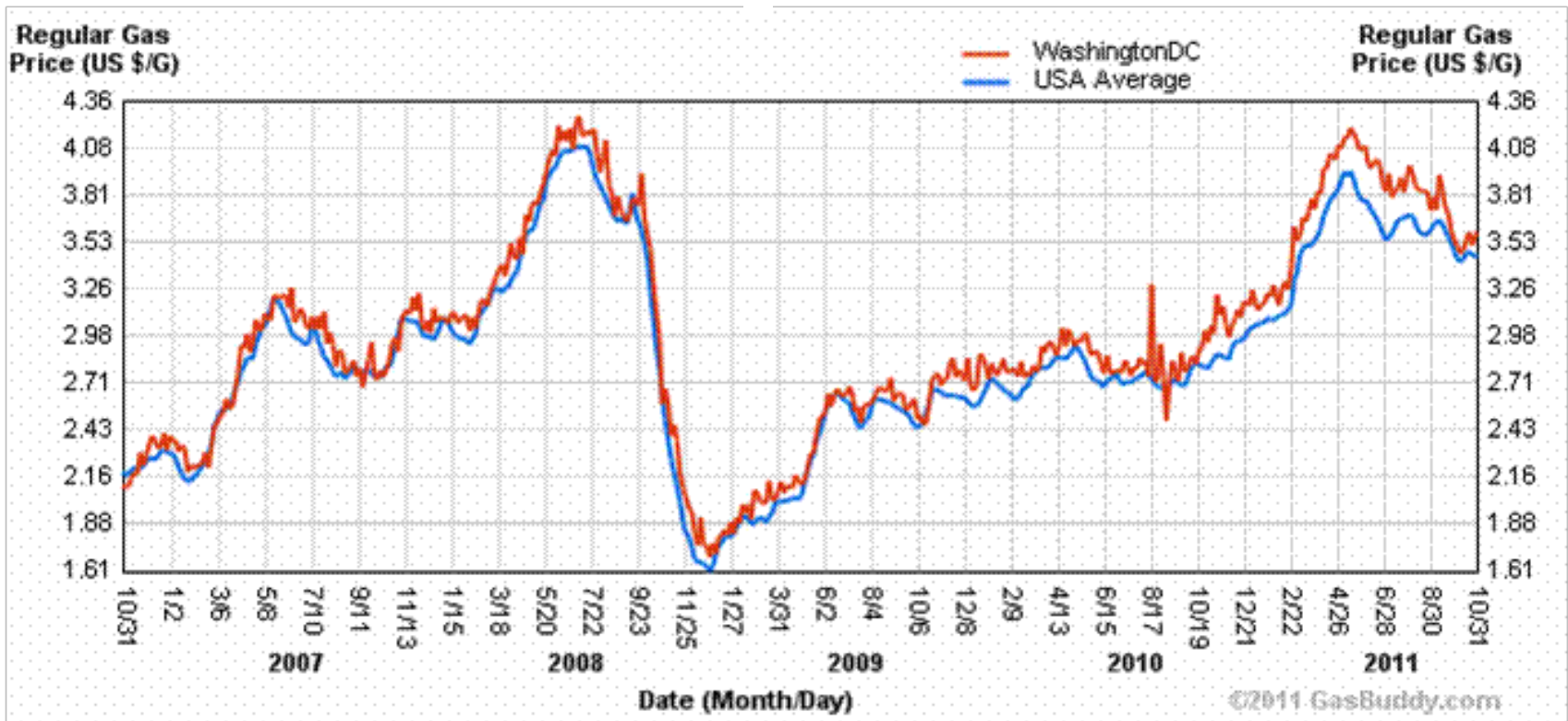
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Light Duty Vehicles (LDV) vs Light Duty Trucks (LDT) (1996-2010)



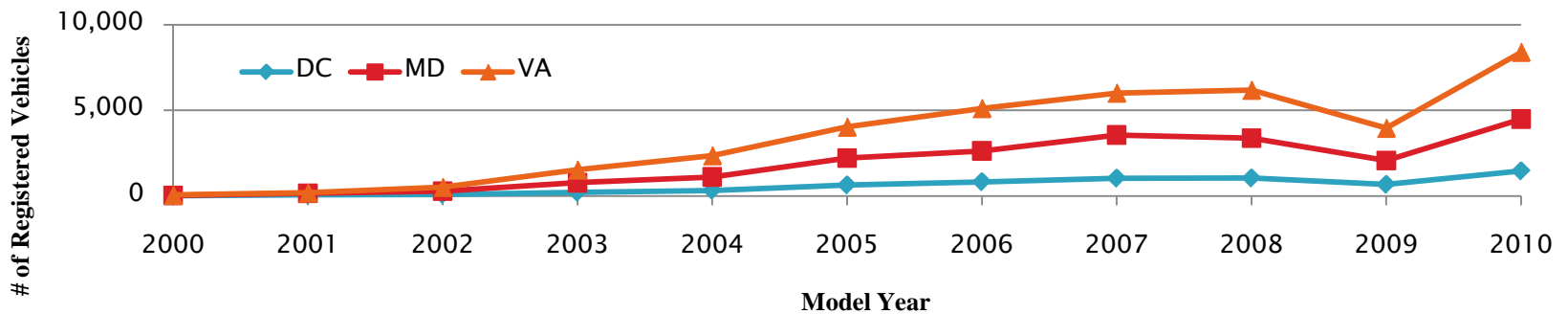
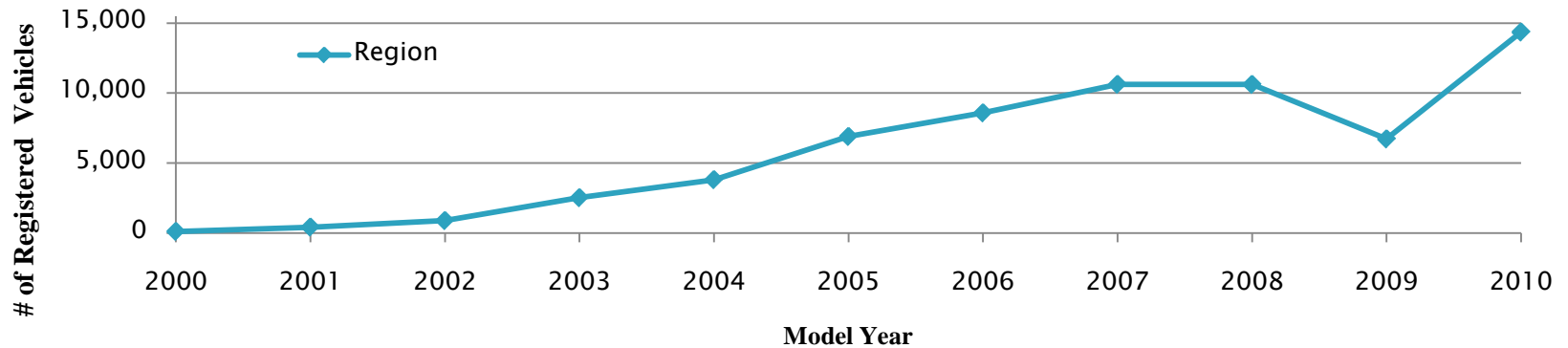
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Gasoline Price Fluctuations



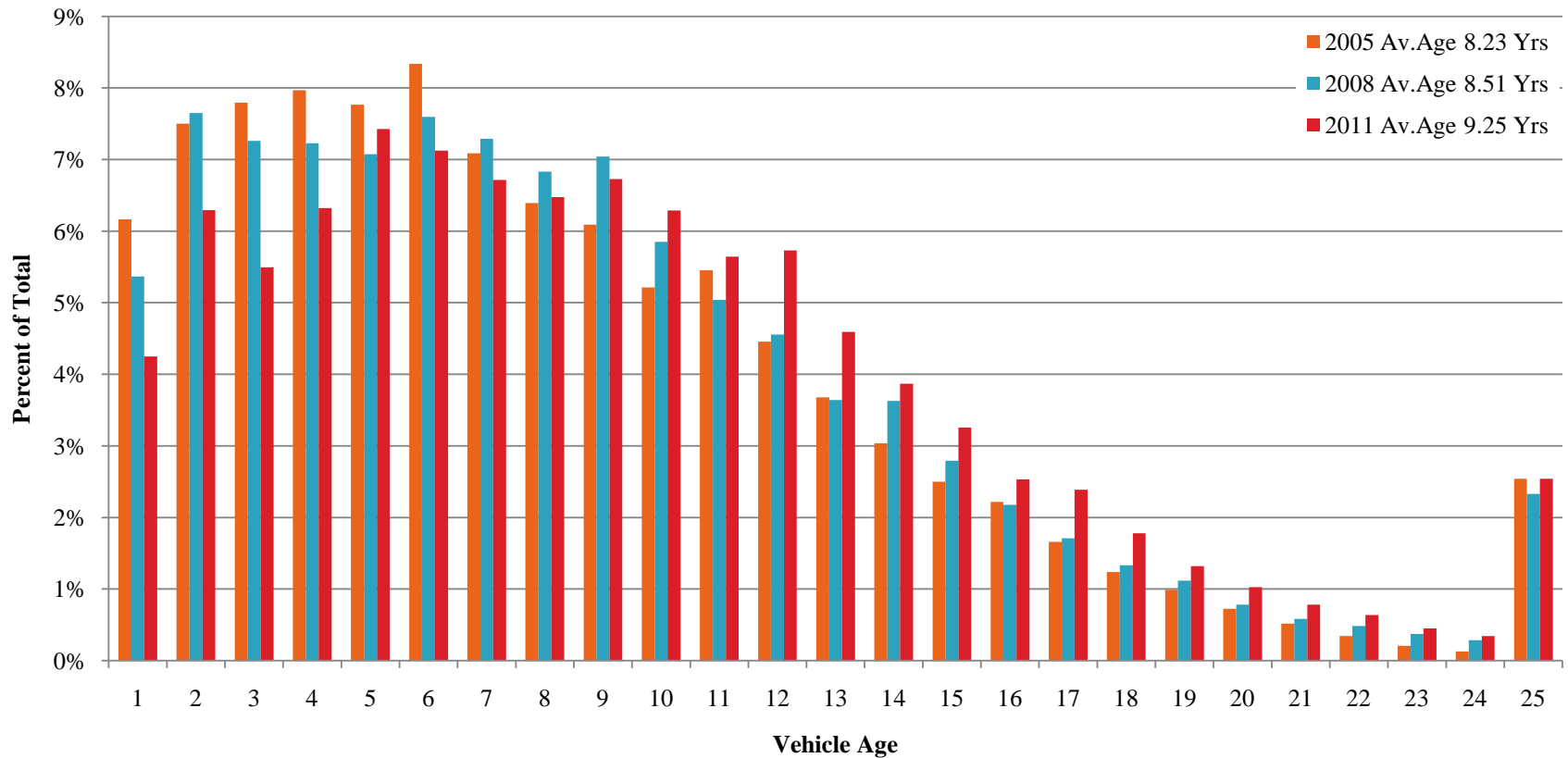
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Popularity of Hybrids (2000-2010)



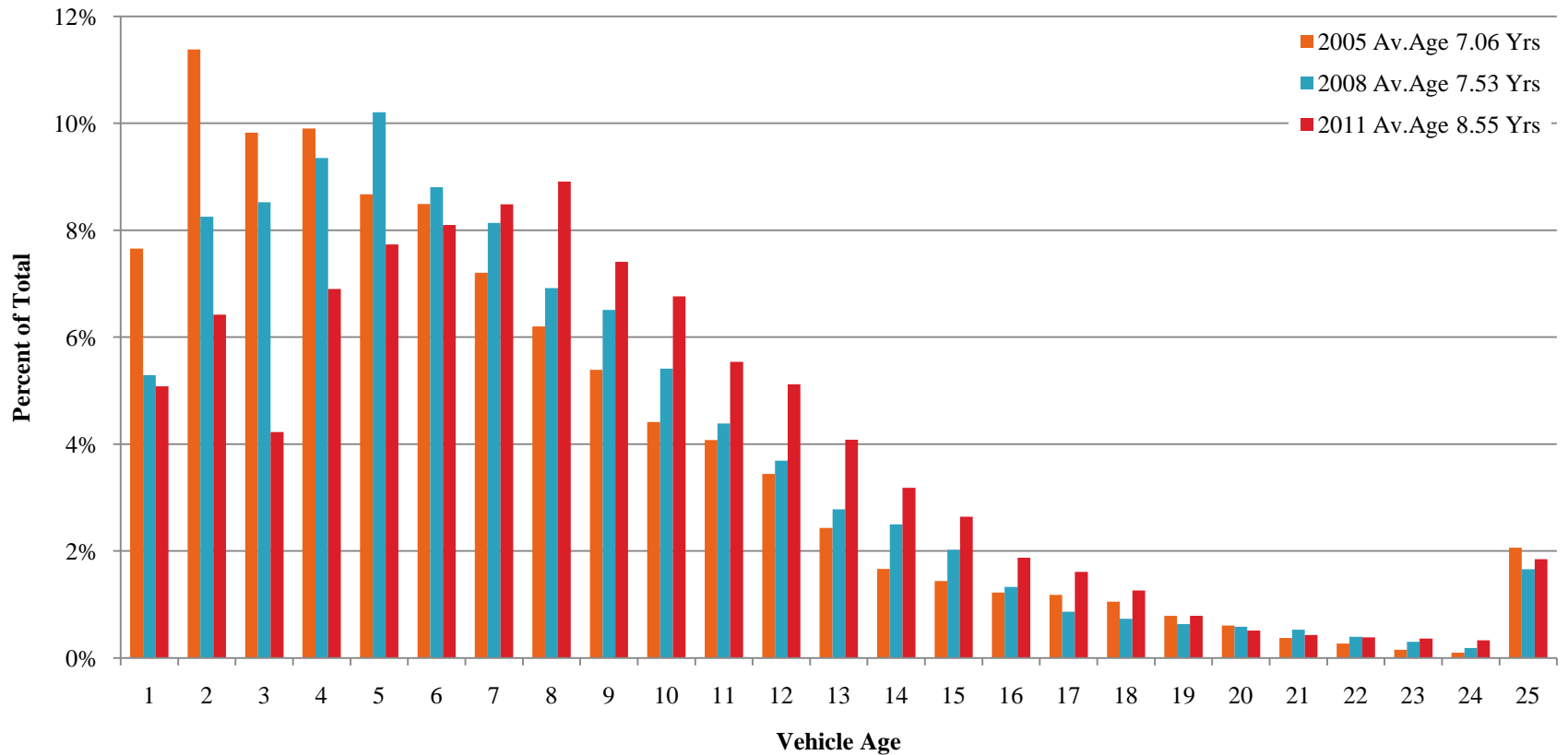
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Vehicle Fleet Age Distribution – Light Duty Vehicles



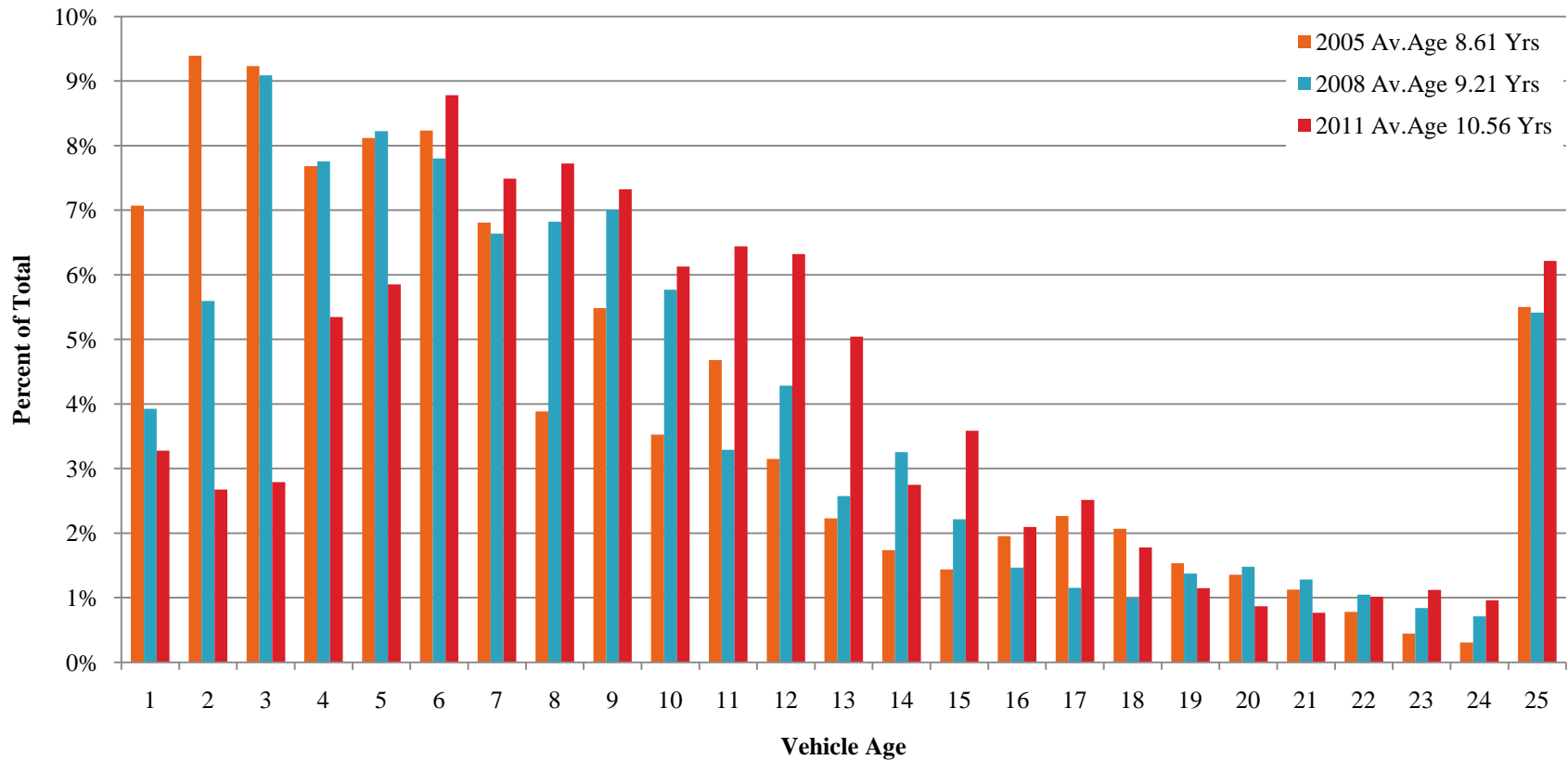
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Vehicle Fleet Age Distribution – Light Duty Trucks



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Vehicle Fleet Age Distribution – Heavy Duty Vehicles



2011 Vehicle Registration Data Analysis

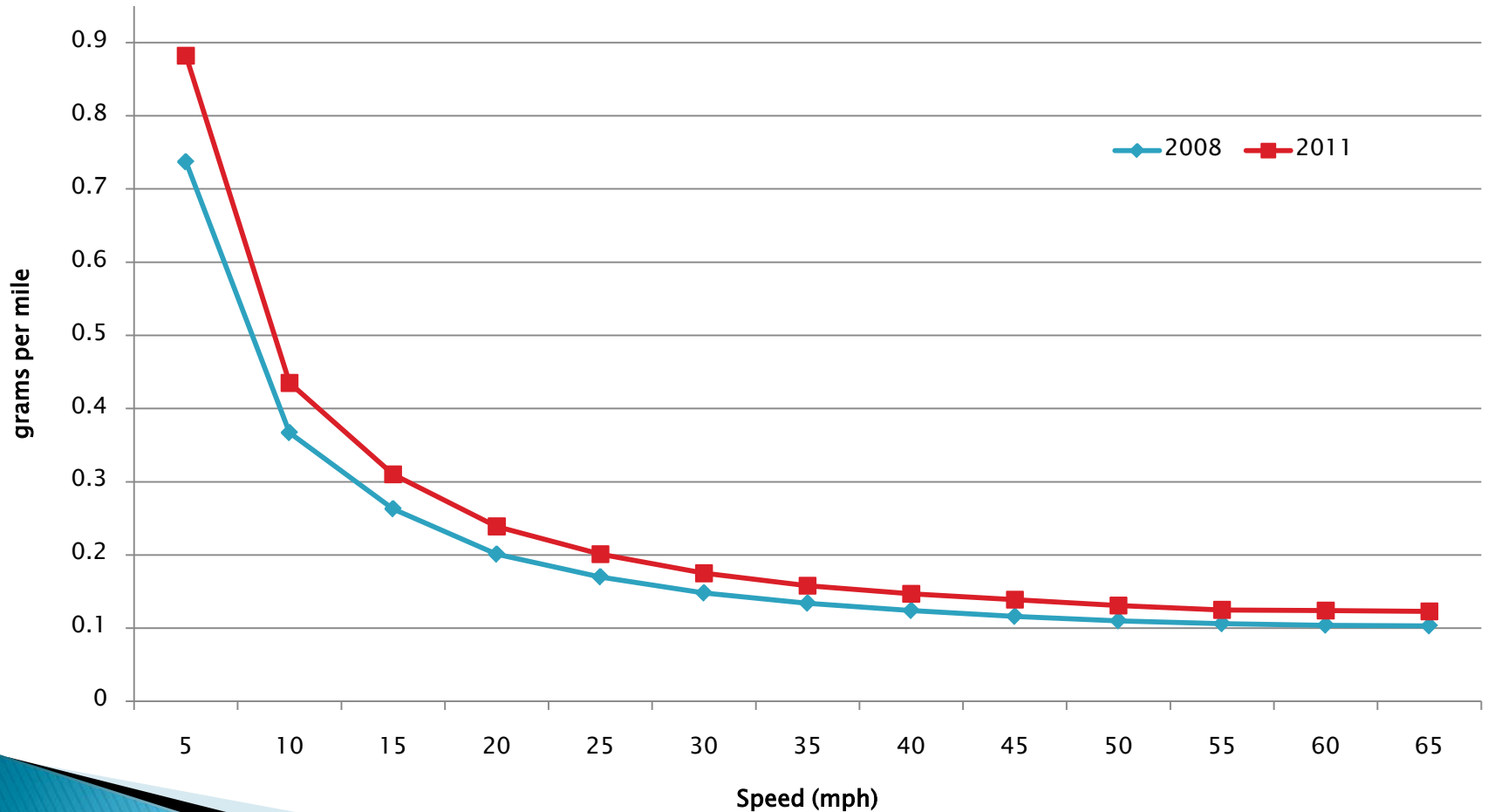
Average Age of the Regional Vehicle Fleet

	Average Vehicle Age			
Year	Light Duty Vehicles (LDV)	Light Duty Trucks (LDT)	Heavy Duty Vehicles (HDV)	All Vehicle Types
2005	8.23	7.06	8.61	7.84
2008	8.51	7.53	9.21	8.18
2011	9.25	8.55	10.56	9.05
2005-08 Difference	0.28	0.47	0.60	0.34
2008-11 Difference	0.74	1.02	1.35	0.87
2005-11 Difference	1.02	1.49	1.95	1.21

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VOC Emission Rates

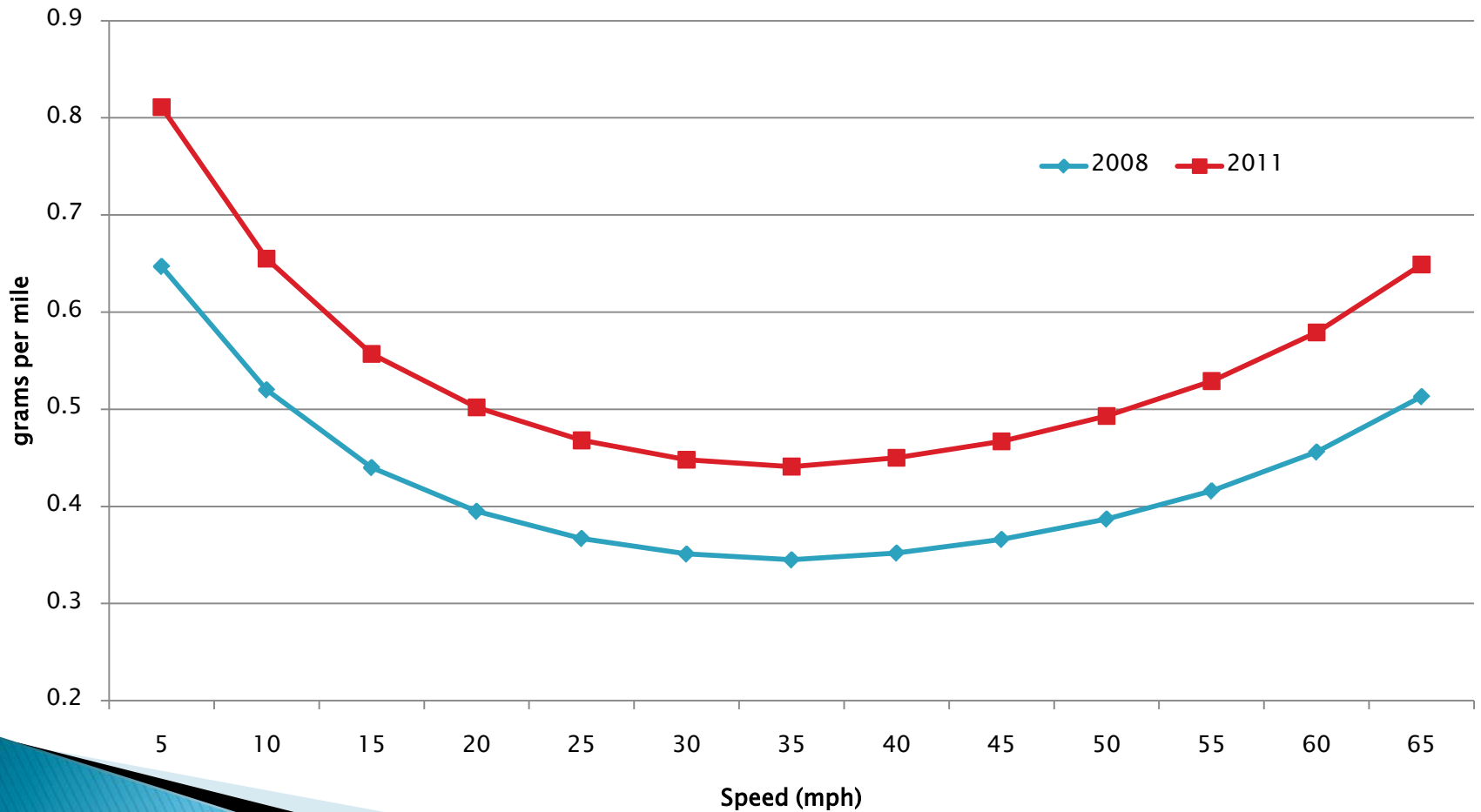
Yr: 2016 Frederick Co.



2011 Vehicle Registration Data Analysis

NOx Emission Rates

Yr: 2016 Frederick Co.



2011 Vehicle Registration Data Analysis

PM2.5 Emission Rates

Yr: 2016 Frederick Co.

