



Clark County, Nevada Vehicle Classification Study

Allison DenBleyker, ERG

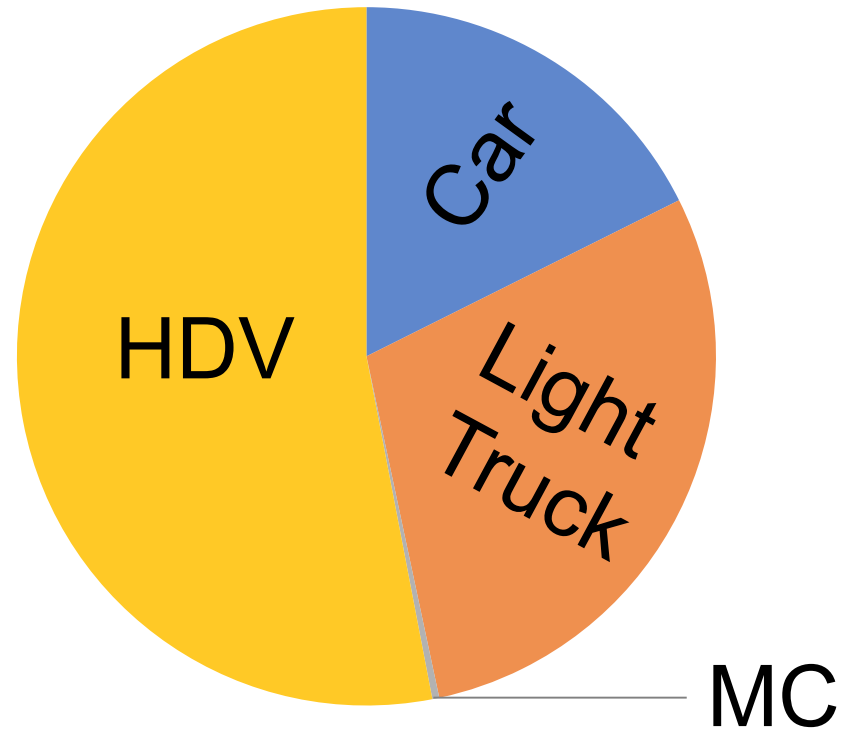
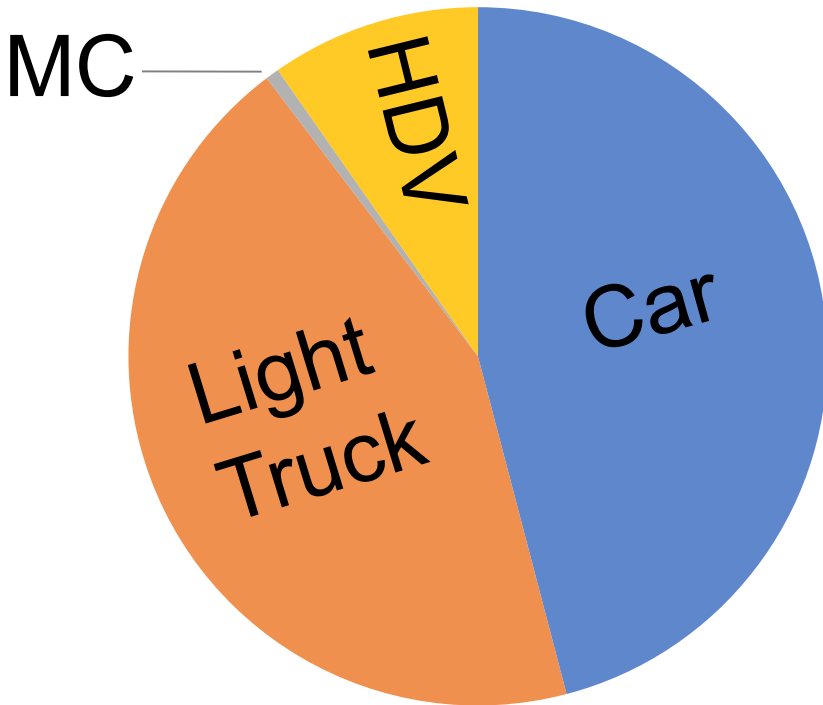
Allison.DenBleyker@ERG.com

U.S. EPA 2019 Emissions Inventory Conference
Dallas, Texas



Vehicle Miles Traveled

NO_x Emissions



* Year 2014 average fleet



Am I a car? ...Or a light truck?



Car



Light Truck

Difficult to distinguish car vs. light truck

Vehicle Classification Monitor



Source: Q-Free.com

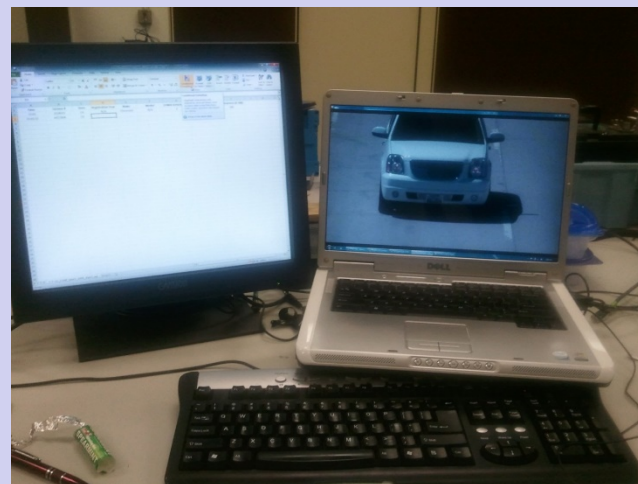
Class 1 Motorcycles		Class 7 Four or more axle, single unit	
Class 2 Passenger cars		Class 8 Four or less axle, single trailer	
Class 3 Four tire, single unit		Class 9 5-Axle tractor semitrailer	
Class 4 Buses		Class 10 Six or more axle, single trailer	
Class 5 Two axle, six tire, single unit		Class 11 Five or less axle, multi trailer	
Class 6 Three axle, single unit		Class 12 Six axle, multi-trailer	
		Class 13 Seven or more axle, multi-trailer	

Source: Federal Highway Administration

License Plate Capture Las Vegas, 2017



Center for
Environmental Research
and Technology



Vehicle Identification Number
(VIN) decoding by:



IHS Markit®



Findings in Las Vegas

- Average car fraction was 0.54

Car fractions in the 2014v2 NEI	N counties
(min) 0.07 - 0.1	5
0.1 - 0.2	30
0.2 - 0.3	325
0.3 - 0.4	1,273
0.4 - 0.5	1,236
0.5 - 0.6	266
0.6 - 0.69 (max)	8
Total	3,143

- Car fractions ranged 0.46 - 0.58
 - Weekday midday lowest
 - Sunday higher than Saturday