

# New End Of Year 2018 Registration Data Review

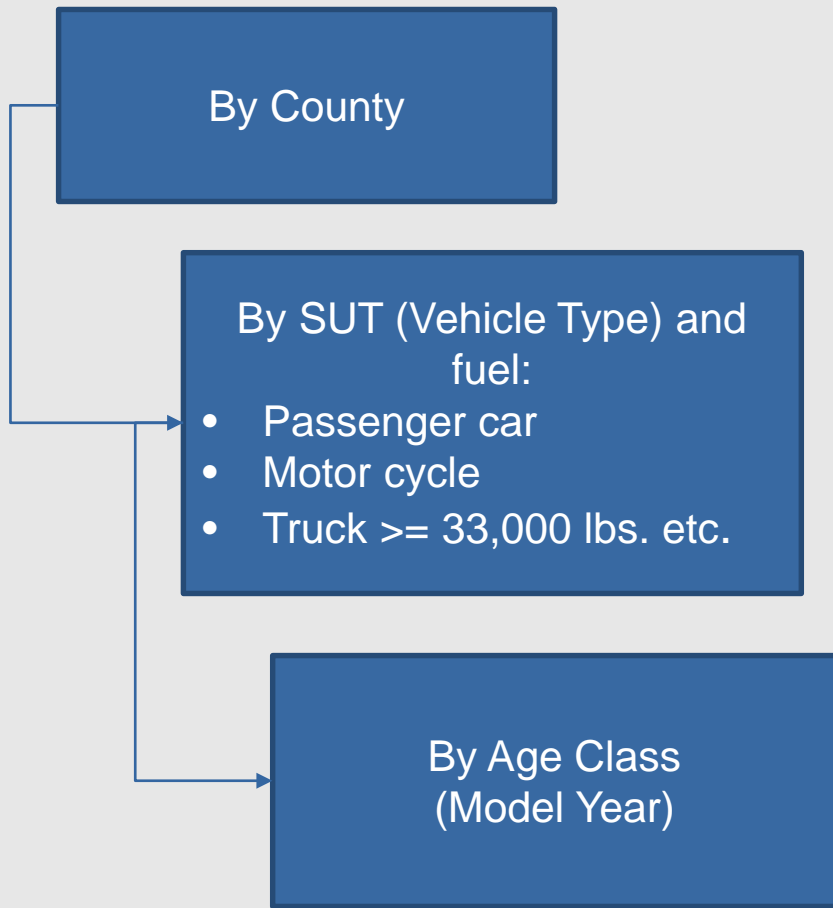
Technical Working Group Meeting  
March 5 2020



- Data on the number and type of vehicles registered in Texas are an essential for regional emission inventories
- Since 2014, annual vehicle registration data have not been available to TWG members
- Two years ago, data was requested but the number of reported vehicles was not consistent with historical data trends
- In mid 2019, TxDOT submitted an additional request designed to screen out irrelevant vehicles (non-road and non-motorized)



- Present the findings of an initial analysis of the new 2018 data:
  - Assess how the new 2018 data request details have affected the data set relative to previous data requests
  - Assess the consistency of new 2018 data with pre-2014 data
  - Compare the data with other independent data sources – statewide DMV reports
- Briefly discuss next steps

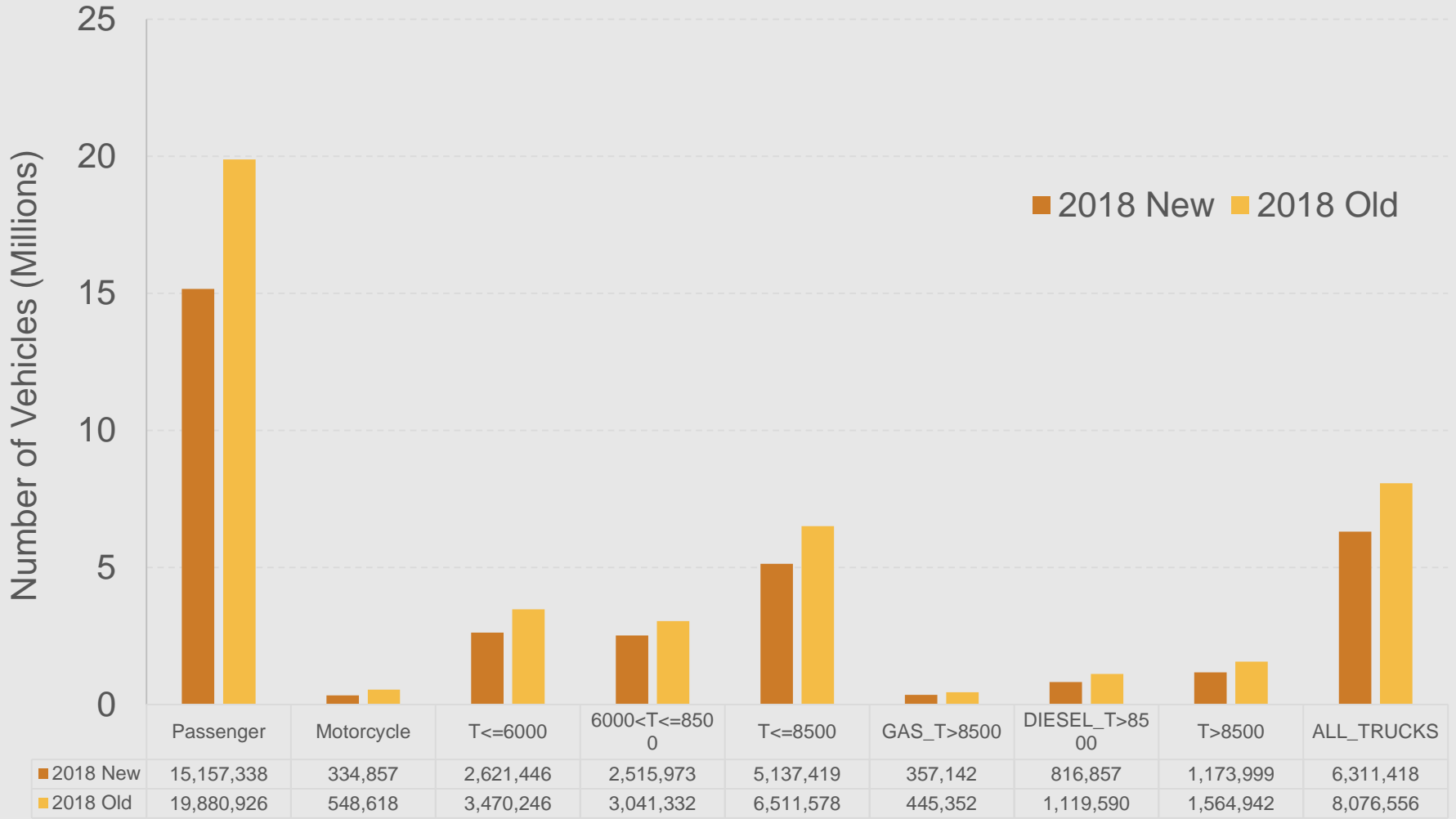


## APPENDIX A

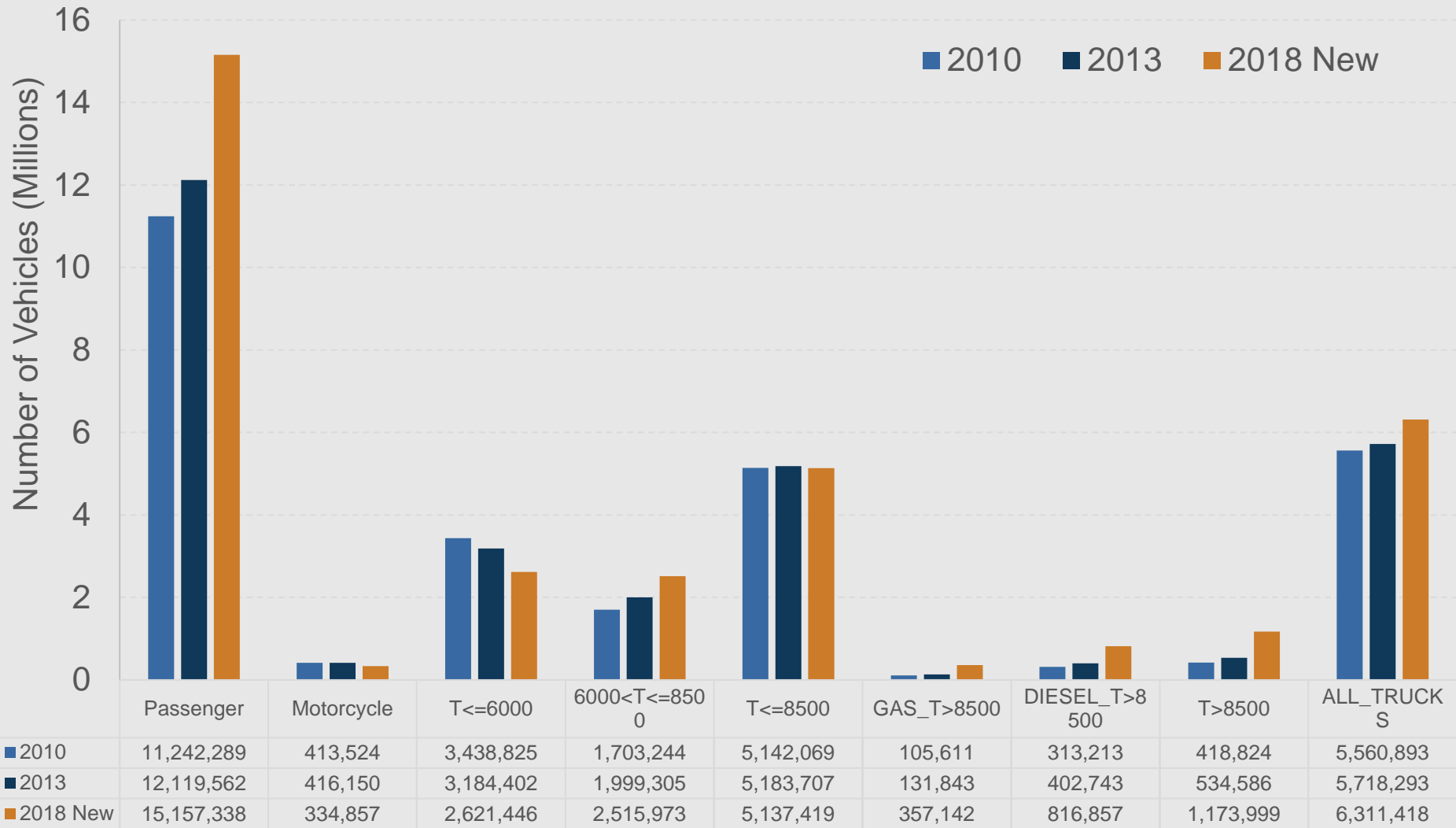
### Registration Codes and Classes

001	5-YR RENTAL TRAILER	049	OFCL TRUCK-LESS/EQL 1 TON	100	FLEET CITY BUS - L/E 6000
002	5-YR TOKEN TRAILER	050	OFCL PASS-MORE THAN 6000	101	FLEET CITY BUS > 6000
003	GOLF CART	051	Z-5 YR APPORTIONED TRLR	105	FLEET MOTORCYCLE
004	ANTIQUE MOTORCYCLE	052	ARMED RSRV-PASS LE 6000	106	FLEET PASSENGER-L/E 6000
005	ANTIQUE	053	ARMED RSRV-PASS GT 6000	107	FLEET PASSENGER > 6000
006	APPORTIONED	054	ARMED RSRV-TRK LE 1 TON	108	FLEET PRIVATE BUS-L/E6000
007	ATV	055	HON CONSUL-PASS LE 6000	109	FLEET PRIVATE BUS > 6000
008	CITY BUS-LESS/EQL 6000	056	HON CONSUL-PASS GT 6000	110	FLEET TRUCK - L/E 1 TON
009	CMOH	057	HON CONSUL-TRK LE 1 TON	111	FLEET TRUCK > 1 TON
010	COMBINATION	058	TX GUARD-PASS LE 6000	112	FLEET FORESTRY
011	DISASTER RELIEF	059	TX GUARD-PASS GT 6000	113	TOKEN TRAILER FLT
012	DRIVER EDUCATION	060	TX GUARD-TRUCK LE 1 TON	114	DISTDNG SERVICE MEDAL
013	DISABLED VETERAN	061	COTTON TRK GT 1 TON	115	DISTDNG SERVICE MEDAL MC
014	FERTILIZER	062	FARM TRK TRACTOR > 1TON	116	BRONZE STAR MEDAL
015	FARM TRK-LESS/EQL 1 TON	064	ANNUAL PERMIT TRUCK	117	BRONZE STAR MEDAL MC
016	FARM TRAILER	065	FOREIGN ORGANIZATION	118	FLEET TOKEN TRLR
019	MACHINERY	066	5-YR HVY RENTAL TRAILER	119	FLEET TRAILER
020	MOPED	067	OFCL MOTORCYCLE	138	ANTIQUE TRAILER
021	MOTOR BUS	068	PEARL HARBOR SURVTIVOR MC	139	OFCL TRUCK-MORETHAN 1 TON
022	MOTORCYCLE	069	DISABLED VETERAN MC	140	AIR MEDAL
023	OIL WELL PERMIT	070	SEAS AG TRK <= 1 TON	141	AIR MEDAL MC
024	PARADE	071	SEAS AG TRK > 1 TON	142	DEFENSE SUPERIOR SERV MDL
025	PASSENGER-LESS/EQL 6000	072	SEAS AG FARM TRK <= 1 TON	143	DEFENSE SUPER SERV MDL MC
026	PASSENGER-MORE THAN 6000	073	SEAS AG FARM TRK > 1 TON	144	SURVIVING SPOUSE DV
027	POW	074	SEAS AG FRM TRK TRAC > 1TON	145	SURVIVING SPOUSE DV MC
028	PRIVATE BUS-LESS/EQL6000	075	SEAS AG COTTON TRK > 1TON	146	AIRMAN'S MEDAL
029	PEARL HARBOR SURVIVOR	076	SEAS AG COMBINATION	147	AIRMAN'S MEDAL MC
030	PURPLE HEART	077	DISASTER RELIEF TRL	148	COAST GUARD MEDAL
031	SOIL CONSERVATION TRUCK	079	PER DEALER	149	COAST GUARD MEDAL MC
032	SOIL CONSERVATION TRL	080	PER DEALER MOTORCYCLE	150	DEFENSE MERIT SERVMDL
033	TOKEN TRAILER	081	EXEMPT MOPED	151	DEFENSE MERIT SERV MDL MC
034	TRACTOR	082	PURPLE HEART MC	152	MERITORIOUS SERV MDL
035	TRUCK-LESS/EQL 1 TON	083	CMOH MC	153	MERITORIOUS SERV MDL MC
036	TRUCK-MORE THAN 1 TON	084	LEGION OF VALOR MC	154	NAVY MARINE CORPS MDL
037	TRAILER	085	FLYING CROSS MEDAL RECPT	155	NAVY MARINE CORPS MDL MC
038	TRAVEL TRAILER	086	FLY CRS MEDAL RECPT MC	156	PRISONER OF WAR MDL
039	EXEMPT-NOT FOR TITLE ONLY	087	SILVER STAR MEDAL	157	PRISONER OF WAR MDL MC
040	CITY BUS-MORE THAN 6000	088	SILVER STAR MEDAL MC	158	SOLDIER MEDAL
041	PRIVATE BUS-MORETHAN 6000	089	LEGION OF MERIT	159	SOLDIER MEDAL MC
042	LOG LOADER	090	LEGION OF MERIT MC	160	ANTIQUE BUS
043	FARM TRK-MORE THAN 1 TON	091	ANNUAL PERMIT TRAILER	161	DIST FLY CROSS MDL VLR
044	FORESTRY	092	ROV	162	DIST FLY CROSS MDL VLR MC
045	LEGION OF VALOR	099	TITLE ONLY (NO REGIS)	163	ANTIQUE TRUCK <= 1 TON
046	TOW TRK-LESS/EQL 1 TON	102	FLEET COMBINATION	164	ANTIQUE TRUCK > 1 TON
047	TOW TRK-MORE THAN 1 TON	103	FLEET MOPED	165	UTV
048	OFCL PASS LESS/EQL 6000	104	FLEET MOTOR BUS	166	GOLF CART-PKG DELIVERY

# Effect of Explicitly Screening Vehicle Registration Categories

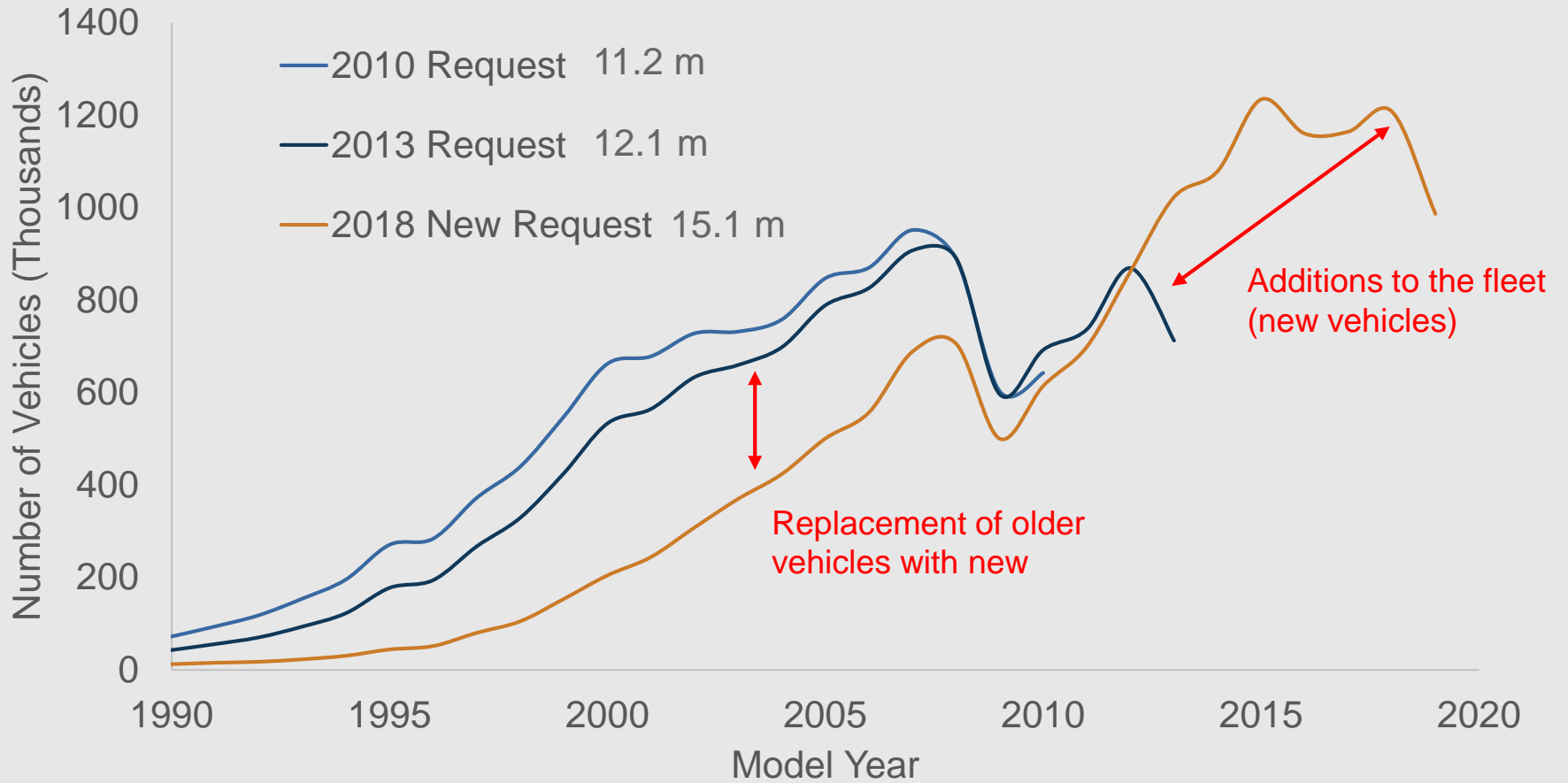


# Consistency of New 2018 vs Historical Data



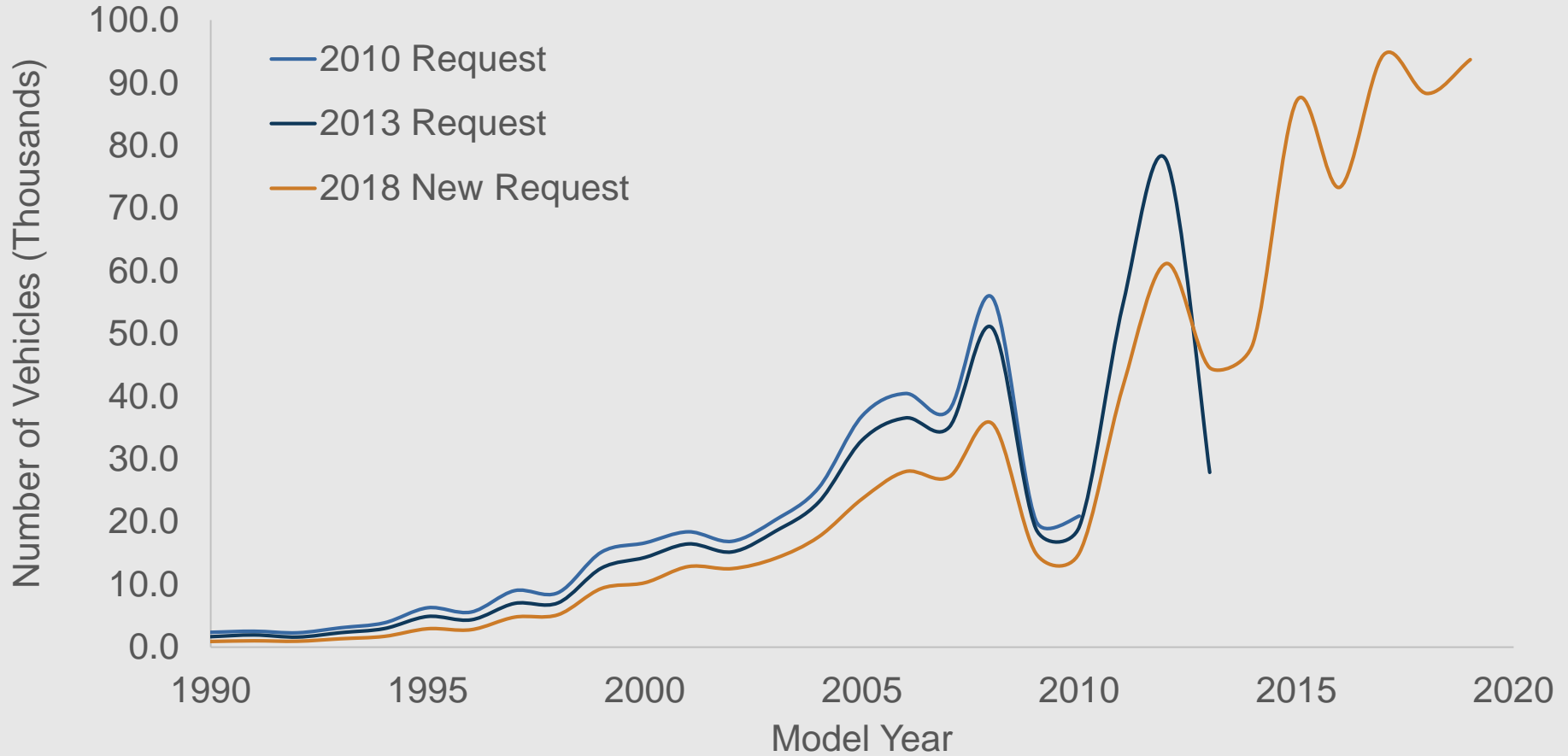


## Passenger Vehicles by Model Year





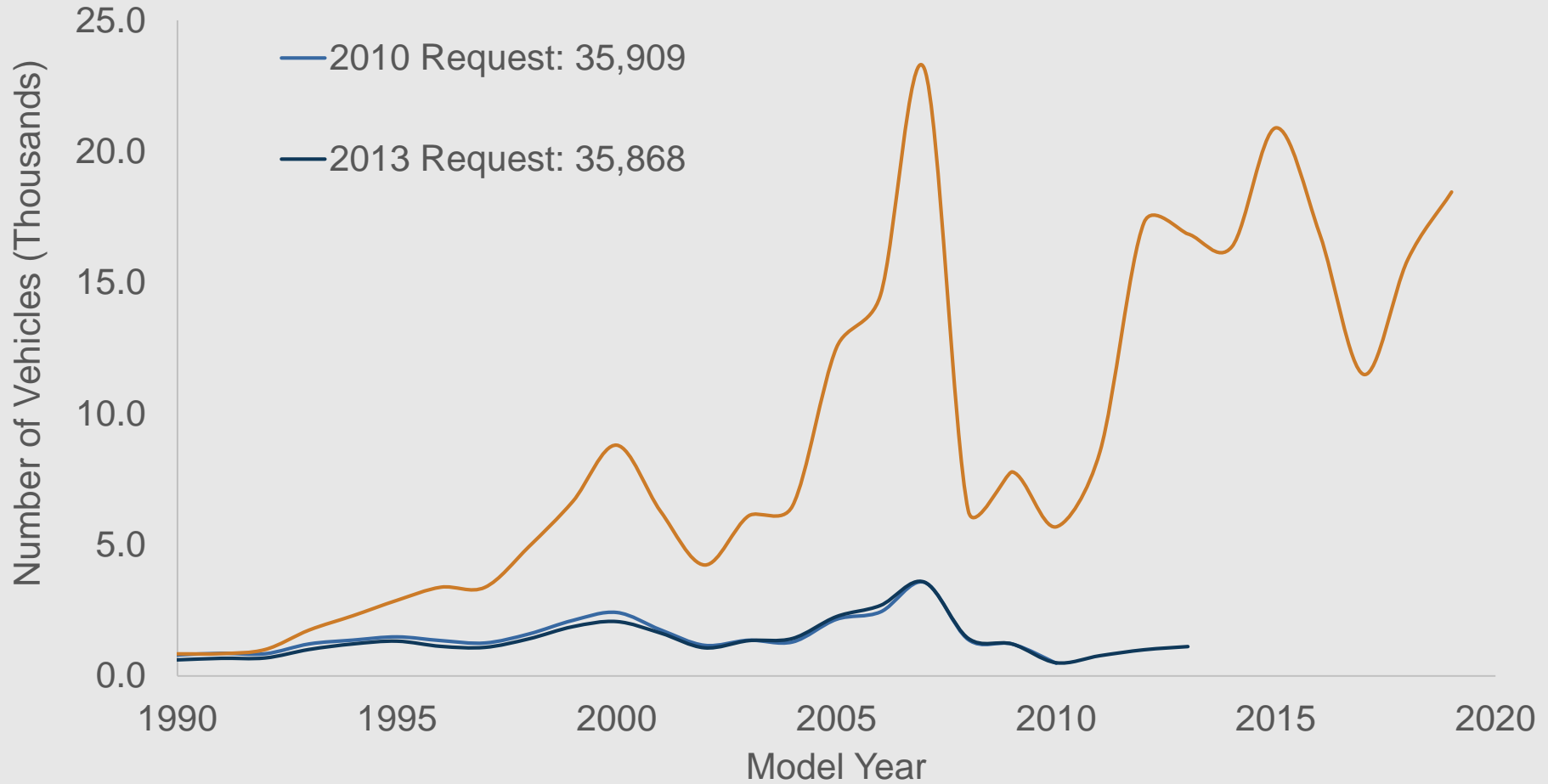
## Total Trucks <= 33,000 lbs. by Model Year





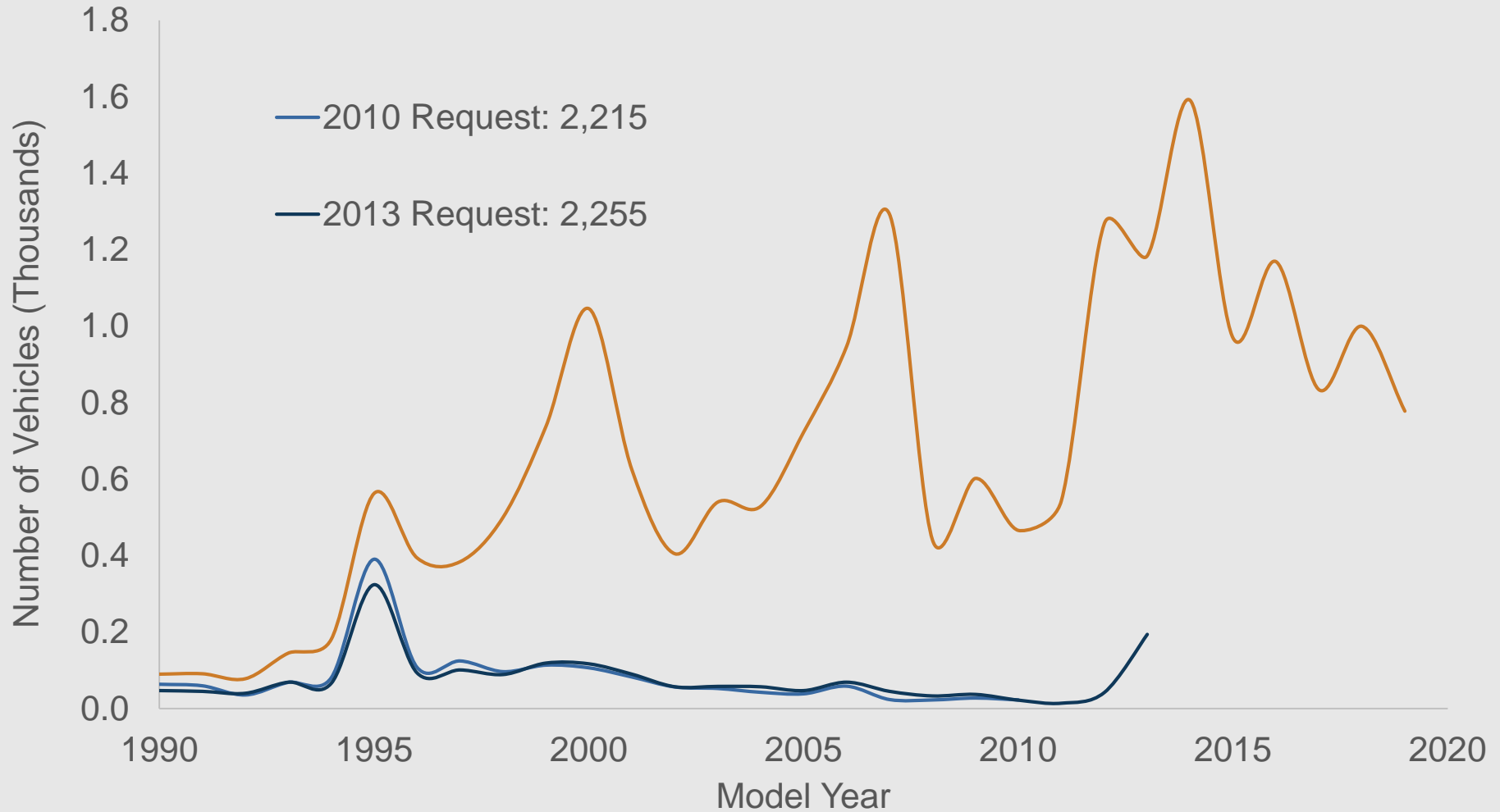


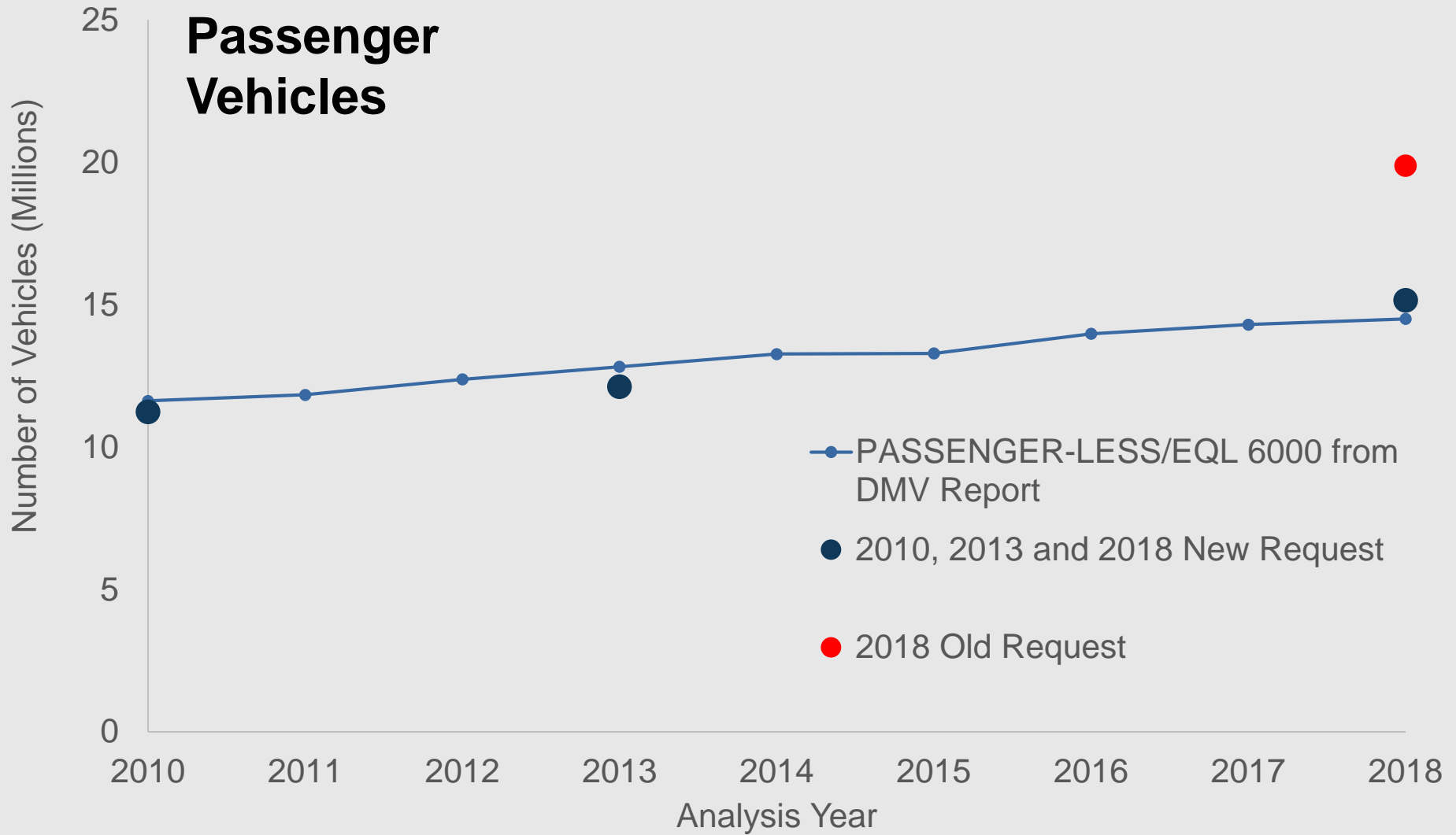
## Diesel Trucks > 33,000 lbs. by Model Year



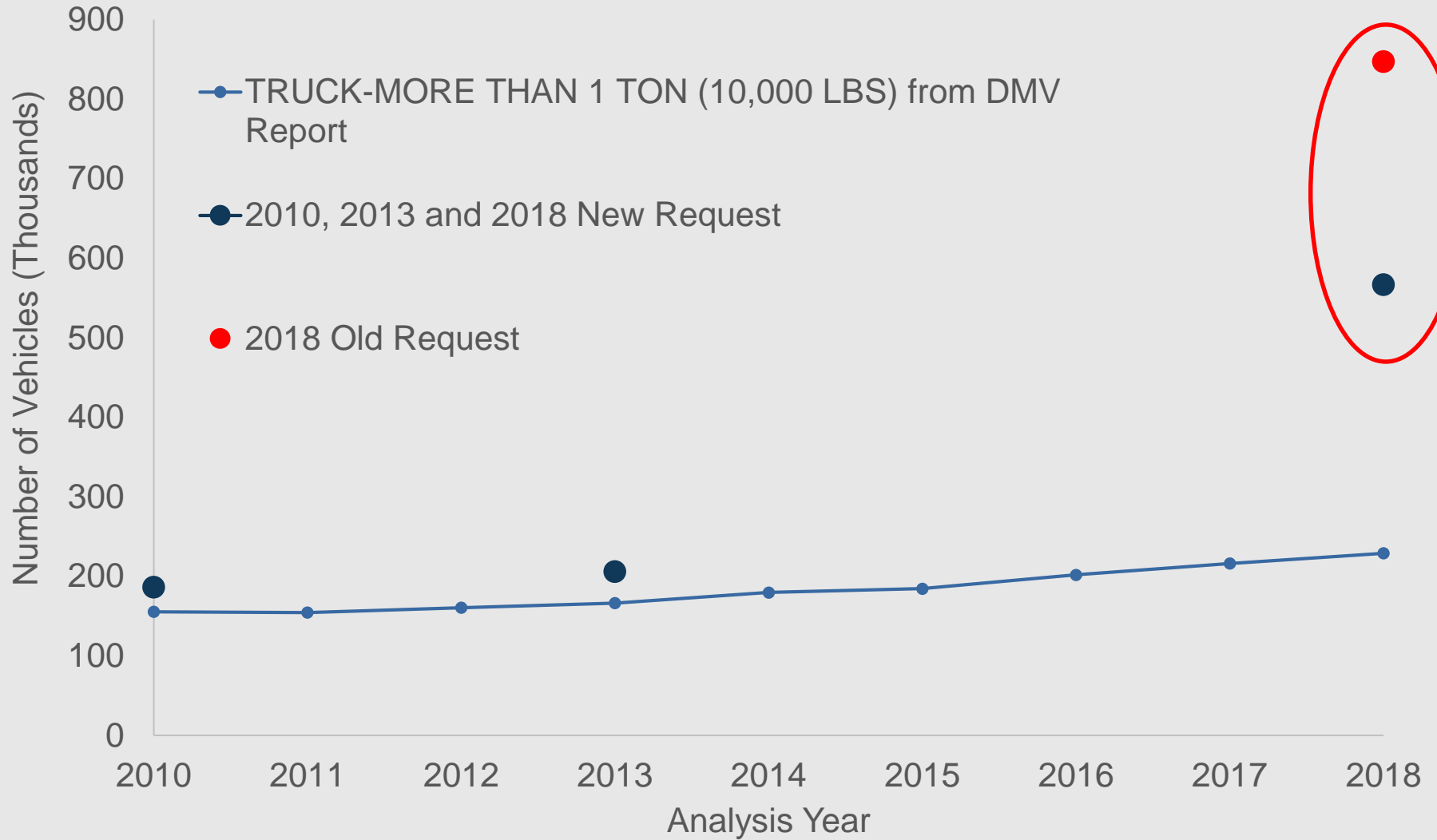


## Gas Trucks > 33,000 lbs. by Model Year





# Consistency with Other Data – Bridging Missing Years





- *It is important to screen* out certain vehicle registration codes from the DMV request
- *Passenger vehicle and light duty truck* classes appear *consistent* with historical data and trends in statewide reports (from DMV)
- Heavy duty truck counts are *not consistent* with historical data
- Non-diesel trucks may include CNG and LPG fuel types



- Repeat analyses for each county [by end April 2020]:
  - Ensure that the county by county trends are similar to statewide
- Determine plausible explanation for the increase in Class 8 trucks (from 20% to 50% of total medium and heavy duty truck fleet) [by end May 2020]
- Contingent on checks above, run activity analyses to obtain MOVES inputs [by July 2020]