
IHS Automotive
DRIVEN BY **POLK**



IHS-Polk Overview of MOVES2014 Reporting

August 31, 2016



- IHS-Polk Overview
- IHS-Polk MOVES2014 Reporting Capabilities
- IHS-Polk MOVES Reporting for the State of Georgia
- Summary
- Q & A



- After 142 years as a privately-owned company, Polk was purchased by IHS in July, 2013
- The combination of Polk's current and historical vehicle registration data combined with IHS forecasting and analytics makes IHS-Polk a valued partner to support automotive reporting and analysis requirements
- In July, 2016, IHS-Polk merged with Markit, a London-based financial services firm which compliments the data and analytics capabilities of IHS-Polk across the multiple industries that we serve



AEROSPACE & DEFENSE

100+ years' experience delivering unrivaled news, insight and intelligence on defense and security equipment, markets, industries and risk

CHEMICAL

Over 200 leading industry authorities creating integrated views and analysis across more than 300 chemical markets and 2,000 processes for 95 industries

FINANCE

Research on 200+ countries and territories with harmonized indicators from IHS analysts and economists

TECHNOLOGY

World's largest electronics component database with more than 350 million parts



ECONOMICS & COUNTRY RISK

Country Economic and Market Forecasts

Operational Excellence and Risk Management

AUTOMOTIVE

The world's largest team of automotive analysts with hundreds of experts located in key markets around the world covering the global automotive industry

ENERGY

Extensive Oil & Gas well information on 5.5+ million wells worldwide dating back as far as 1860

MARITIME

World's largest maritime database with an information gathering heritage of 250+ years with comprehensive information on all vessels 100 GT and over



- **IHS-Polk purchases motor vehicle registration records from:**
 - All 51 State Department of Motor Vehicles (DMV's)
 - All Canadian Provinces & Northwest Territories
 - Major Global Markets
- **Vehicle Registration records include:**
 - Vehicle Identification Number (VIN) - - the foundation of our automotive data
 - Registration owner name
 - Registration owner address
 - Title and other data associated with the vehicle and ownership reporting
- **Data acquisition from the states is continuous**
 - Daily, Weekly, Monthly
 - Name, Address and VIN are verified for accuracy and consistent reporting
 - Data is compiled and organized into a variety of IHS-Polk data and analytical products
- **Restrictions**
 - IHS-Polk fully complies with Federal and State privacy laws
 - All states restrict use of personal names except for Federal Recalls



- IHS-Polk Vehicle Registration data is the best source for accurate vehicle population reporting and analysis for MOVES2014
- IHS-Polk has developed a reporting solution for MOVES2014 reporting and the following charts will describe this reporting in more detail
- EPA is working closely with IHS-Polk to continue to develop this reporting process for MOVES2014.



- The IHS-Polk MOVES2014 reporting contains the following capabilities:
 1. For Georgia, IHS-Polk created an Access-based Query Tool that provides multiple selection criteria and is updated quarterly
 - Vehicles classifications and attributes
 - Geographic selection from National, State and County level
 - Owner selection including fleet vocation categories
 - Vehicle populations based on the above selection criteria
 2. IHS-Polk and the State of Georgia completed this reporting project using state registration data mapped to MOVES classifications
 3. Mapping of IHS-Polk vehicle classifications to MOVES2014 includes:
 - Vehicle Make, Model, Series, Engine, Fuel type, etc.
 - Capability to split GVW Class 2 into 2a and 2b

IHS-Polk MOVES2014 REPORTING



VIN GVW	State	Registered Vehicles Count - July, 2016 -
2	ALABAMA	1,207,221
2	ALASKA	246,316
2	ARIZONA	1,452,713
2	ARKANSAS	840,089
2	CALIFORNIA	5,605,642
2	COLORADO	1,224,877
2	CONNECTICUT	458,118
2	DELAWARE	168,895
2	DISTRICT OF COLUMBIA	34,694
2	FLORIDA	3,071,132
2	GEORGIA	2,005,695
2	HAWAII	160,794
2	IDAHO	521,263
2	ILLINOIS	2,119,442
2	INDIANA	1,422,077
2	IOWA	915,790
2	KANSAS	800,523
2	KENTUCKY	946,417
2	LOUISIANA	1,278,724
2	MAINE	292,295
2	MARYLAND	879,653
2	MASSACHUSETTS	855,512
2	MICHIGAN	2,201,807
2	MINNESOTA	1,292,215
2	MISSISSIPPI	784,048
2	MISSOURI	1,481,880
2	MONTANA	475,480

VIN GVW	State	Registered Vehicles Count - July, 2016 -
2	NEBRASKA	594,926
2	NEVADA	498,820
2	NEW HAMPSHIRE	265,703
2	NEW JERSEY	1,180,476
2	NEW MEXICO	551,952
2	NEW YORK	2,122,063
2	NORTH CAROLINA	1,855,709
2	NORTH DAKOTA	312,551
2	OHIO	2,149,286
2	OKLAHOMA	1,339,005
2	OREGON	813,484
2	PENNSYLVANIA	2,255,757
2	RHODE ISLAND	122,669
2	SOUTH CAROLINA	1,064,891
2	SOUTH DAKOTA	338,264
2	TENNESSEE	1,341,915
2	TEXAS	6,801,296
2	UTAH	629,400
2	VERMONT	123,865
2	VIRGINIA	1,450,377
2	WASHINGTON	1,383,830
2	WEST VIRGINIA	406,653
2	WISCONSIN	1,299,657
2	WYOMING	261,719
	Total	61,907,580

IHS-Poik MOVES2014 REPORTING



Choose the counties and report format:

GEORGIA
DEPARTMENT OF NATURAL RESOURCES

Registration County:	Counties Selected:
<ALL COUNTIES>	<ALL>
APPLING 13001	
ATKINSON 13003	
BACON 13005	
BAKER 13007	
BALDWIN 13009	
BANKS 13011	
BARROW 13013	
BARTOW 13015	
BEN HILL 13017	
BERRIEN 13019	
BIBB 13021	
BLECKLEY 13023	
BRANTLEY 13025	
BROOKS 13027	
BRYAN 13029	
BULLOCH 13031	
BURKE 13033	
BUTTS 13035	
CALHOUN 13037	
CAMDEN 13039	
CANDLER 13043	
CARROLL 13045	
CATOOSA 13047	
CHARLTON 13049	
CHATHAM 13051	
CHATTAHOOCHEE 13053	
CHATTOOGA 13055	
CHEROKEE 13057	
CLARKE 13059	
CLAY 13061	
CLAYTON 13063	

Notes:
2011 data only available for 2A, 2B, 7

Report Formats

2A Population 1 Mkt Rrsch
 2B Pop.w/fuel 3 Trailer
 2C Vocation
 7 Age

MOVES/MOBILE? **yearID?** **Show Counties?**
 MOVES 2011 Yes
 MOBILE 2014 No

Split? **Export Type?**
 No Single File
 Yes Multiple Files



SAMPLE REPORT FIELDS

Reg Name (if needed for research)

Reg Address (if needed for research)

Registration City

Registration County

Registration Zip

Registration Vocation

Registration Carrier Type

Vehicle Make

Vehicle Series

Vehicle Model

Cab Type

Vehicle Type

Brake Type

Wheels Driving

Engine Make

Engine Model

Engine Liters

Engine CID

Engine Fuel

Engine Cylinders

GVW Class

Vehicle Count

IHS-Polk Coding for MOVES2014



Source Type ID	Source Use Type	Description	Polk Coding
11	Motorcycle	Vehicles with less than 4 wheels.	Vehicle Type: M – Motorcycle
21	Passenger Car	Four wheel, two axle vehicles whose primary function is passenger transport.	Vehicle Type: P – Passenger Car GVW: N/A Body Style: All
31	Passenger Truck	Four wheel, two axle vehicles whose primary functional design is for cargo, but are used primarily for passenger transport.	Vehicle Type: T – Passenger Car GVW: 1 - 3 Body Style: Sport Utility Truck, Sport Utility Vehicle Van Passenger
32	Light Commercial Truck	Four wheel, two axle trucks used primarily for cargo transport.	Vehicle Type: T – Truck GVW: 1 – 3 Body Style: Cab Chassis, Cut-Away, Incomplete (Strip Chassis), Incomplete Pickup, Pickup, Straight Truck, Van Cargo, Van Cut-Away, Step Van
41	Intercity Bus	Passenger vehicles with a capacity of 15 or more persons primarily used for transport between cities.	Vehicle Type: T-Truck GVW: 8 Body Style: Bus Non-School
42	Transit Bus	Passenger vehicles with a capacity of 15 or more persons primarily used for transport within cities.	Vehicle Type: T-Truck GVW: 4 – 8 Body Style: Bus Non-School, School Bus, Van Cutaway Vocation: Bus Transportation
43	School Bus	Passenger vehicles with a capacity of 15 or more persons primarily used for transport of students for school.	Vehicle Type: T-Truck GVW: 4 – 8 Body Style: School Bus, Van Cutaway Vocation: Gov't Bus Transportation
51	Refuse Truck	Trucks primarily used to haul refuse to a central location.	Vehicle Type: T – Truck GVW: 7 – 8 Body Style: Straight Truck Vocation: Garbage / Refuse

IHS-Polk Coding for MOVES2014



Source Type ID	Source Use Type	Description	Polk Coding
52 and 53	Single Unit Short-Haul and Long-Haul Truck	Single unit trucks	Vehicle Type: T – Truck (all except Tractor Truck) GVW: 4 – 8 Liters: < 15L or 13L (requires further discussion) Drive Wheels: 6x2, 6x4, 6x6, 8x2, 8x4, 8x6, 8x8, 10x2, 10x4, 10x6, 10x8, 12x4, 12x6, 14x4, 14x6
54	Motor Home	Trucks whose primary functional design is to provide sleeping quarters.	Vehicle Type: T – Truck GVW – as determined by Motorhome body Body Style: Motorhome / Van Camper
61	Combination Short-Haul Truck	Combination tractor/trailer trucks with more than four tires with a range of operation of up to 200 miles.	Vehicle Type: T – Truck (Tractor Truck) GVW: 7 – 8 Liters: < 15L or 13L (requires further discussion) Drive Wheels: 6x2, 6x4, 6x6, 8x2, 8x4, 8x6, 8x8, 10x2, 10x4, 10x6, 10x8, 12x4, 12x6, 14x4, 14x6
62	Combination Long-Haul Truck	Combination tractor/trailer trucks with more than four tires with a range of operation of over 200 miles.	Vehicle Type: T – Truck (Tractor Truck) GVW: 7 – 8 Liters: > 15L or 13L (requires further discussion) Drive Wheels: 6x2, 6x4, 6x6, 8x2, 8x4, 8x6, 8x8, 10x2, 10x4, 10x6, 10x8, 12x4, 12x6, 14x4, 14x6

IHS-Polk MOVES2014 REPORTING - - Vehicle Ownership

IHS **Automotive**
DRIVEN BY **POLK**



- IHS-Polk uses multiple data processes to identify and classify vehicle ownership:
 1. Registration Name
 - IHS-Polk owner name is continuously identified and tracked based on Registration name
 - Registration owner types include:
 - Personal, Small Fleet, Large Fleet, Government, Rental, Dealer/Manufacturer
 2. Carrier type
 - Owners are categorized into 13 Carrier types:
 - Private, For Hire, Full Service Lease, Finance Lease, Mfg. Sponsored Lease, Local, State and US Government, Utilities, Dealer, Canadian Gov't., Individual, Vehicle Manufacturer
 3. Vocational Coding
 - Owners are categorized into these Commercial Vocations:
 - Agriculture, Beverage Dist., Bus Transportation, Construction, Dealer, Emergency Vehicles, Forestry/Lumber, Food Processing, General Freight, Government, Hazardous Materials, Individual, Landscaping, Lease/Finance, Manufacturer-Sponsored Lease, Lease/Rental, Manufacturing, Mining/Quarrying, Moving & Storage, Petroleum, Petroleum/Hazardous Material, Road/Highway Maint., Sanitation/Refuse, Services, Sanitation/Hazardous Material, Specialized Heavy Hauling, Utility/Hazardous Material, Utility Services, Vehicle Transporter, Wholesale/Retail, Unclassified, Miscellaneous
 4. Dun and Bradstreet
 - Cross check registration records with D&B business records by owner
 5. US DOT Motor Carrier Number
 - Cross check registration records with FMCSA Motor Carrier Database



- IHS-Polk Motor Vehicle Registration Data advantages:
 - Most accurate vehicle population data available (used for Recalls)
 - Comprehensive and complete for all 51 States
 - Ability to report by vehicle, owner and geographic specifications
 - Continuously updated
 - Supported by data and analytics experts
- IHS-Polk will continue to collaborate with the EPA and the States to provide the data support needed for MOVES2014



Q & A



Thank you!

Rich Stucky

IHS-Polk Automotive

248-728-7624

richard.stucky@ihs.com



Back Up Slides for MOVES2014

Coding Recommendations - SCC



SCC	P5VClass	part5vClassDesc	Description	
2201001000	1	LDGV	Light-Duty Gasoline Vehicles (Passenger Cars)	Vehicle Type = P
2201020000	2	LDGT1	Light-Duty Gasoline Trucks 1 (0–6,000 lbs. GVWR, 0–5,750 lbs. LVW)	Vehicle Type = T GVW = 1
2201040000	3	LDGT2	Light-Duty Gasoline Trucks 2 (6,001-8,500 lbs. GVWR, ALVW)	Vehicle Type = T Custom Logic for Weight
2201070000	4	HDGV	Heavy-Duty Gasoline Vehicles (8,501 lbs. – GVWR)	Vehicle Type = T Custom Logic for Weight
2201080000	5	MC	Motorcycles (Gasoline)	Vehicle Type = M Body Style if need off-road
2230001000	6	LDDV	Light-Duty Diesel Vehicles (Passenger Cars)	Vehicle Type = P Fuel Type = Diesel
2230060000	7	LDDT	Light-Duty Diesel Trucks (0-8,500 lbs. GVWR)	Vehicle Type = T Fuel Type = Diesel Custom Logic for Weight
2230071000	8	2BHDDV	Class 2b Heavy-Duty Diesel Vehicles (8,501-10,000 lbs. GVWR)	Vehicle Type = T Fuel Type = Diesel Custom Logic for Weight
2230072000	9	LHDDV	Class 5 Heavy-Duty Diesel Vehicles (10,001-19,500 lbs. GVWR)	Vehicle Type = T GVW = 3, 4 and 5 Fuel Type = Diesel
2230073000	10	MHDDV	Class 6-7 Heavy-Duty Diesel Vehicles (19,501-33,000 lbs. GVWR)	Vehicle Type = T GVW = 6 and 7 Fuel Type = Diesel
2230074000	11	HHDDV	Class 8a Heavy-Duty Diesel Vehicles (33,001 lbs. – GVWR)	Vehicle Type = T GVW = 8 Fuel Type = Diesel
2230075000	12	BUSES	Buses	Vehicle Type = T Body Style = Bus School and Bus Non School



Other IHS-Polk Capabilities

IHS-Polk Databases – Other Data Products and Capabilities



- **Additional IHS-Polk Products**
 - Global Registrations and Vehicle Sales
 - VIN Decoding
 - Recalls
 - Special financial reports
 - Vehicle selling price
 - Vehicle lease vs. buy
- **IHS-Polk data append capabilities**
 - Append critical data to VIN records, such as:
 - Parts catalog data
 - EPA fuel economy ratings
 - DOT Number
 - D&B business data
 - Safety restraints
 - Household Demographics
 - Key vehicle pricing data
 - Other custom data appends, data mapping and analytics are available
- **Special Reports and Consulting:**
 - Commercial Forecasts and Models including:
 1. Five-Year MD & HD Forecast
 2. Five-Year Trailer Forecast
 3. Trailer Population and Miles Traveled Model
 4. Diesel Consumption Model
 5. Commercial Truck Pricing Model
 6. Freight Weight Model
 7. Vehicle Miles Traveled Model
 8. Parts Usage and Demand Modules for:
 - Diesel Engine Parts
 - Tires
 - Engine Oil
 - Filters
 - Brake Parts
 - Scrapage rates
 - Other Special Forecasts
 - Big Data Analytics and Research



- **Light Duty Vehicle Forecasts**
 - Light Vehicle Sales
 - Light Vehicle Production
 - Light Vehicle Powertrain
- **Medium and Heavy Duty Vehicle Forecasts**
 - Medium and Heavy Duty Sales
 - MD and HD Model and Engine Production
- **Sales Forecast Timeframes:**
 - 7, 12 and 20 year timeframes.
 - 10 years of sales history
 - Other custom timeframes

- **Special Studies and Reports:**
 - Regulatory Impact on Forecasts
 - Vehicle Performance & Compliance
 - Alt Fuels
 - Vehicle in use Survey (VIUS)
 - Longer range Forecasts
 - LNG Study to 2040
 - Long-term CO2 Forecast
 - Auto Component Forecasts and Future Technologies
 - Electronics
 - ADAS
 - Alternative Fuel
 - Electric Vehicle/Hybrid
 - Custom research and analytics
 - Consulting Services
 - Trends and analysis
 - Economic impacts and political risk
 - IHS Global capabilities and expertise

IHS-Polk Databases – Commercial Forecasts and Study Models



- IHS-Polk also conducts primary research for special commercial analysis
- Study models use IHS-Polk commercial registrations by GVW class
- Forecasts are developed using:
 - Current commercial vehicle types based on GVW class
 - Current trailer body styles
- Summary of Commercial Vehicle Study Models or Forecasts:

Study Model or Forecast	GVW	Comments
1. Diesel Fuel Consumption Model	Classes 2b-8	Reflects current Polk VIO with all model year vehicles
2. Vehicle Miles Traveled Model	Classes 3-8	Reflects current Polk VIO with all model year vehicles
3. Freight Weight Model	Classes 3-8	Reflects current Polk VIO with all model year vehicles
4. Commercial Vehicle Outlook	Classes 2b-8	Five year future forecast
5. U.S. Trailer Population Outlook	Based on type of trailer	Five year future forecast
6. U.S. Trailer Average Miles Traveled	Based on type of trailer	Reflects current Trailer Population
7. Truck Pricing Model	Classes 3-8	Reflects current commercial models

IHS-Polk Has Offices in 11 Countries in Four Continents and Continues to Expand

IHS Automotive
DRIVEN BY **POLK**

