



2018

Real-World Fuel Consumption Report



# Test Groups



## 8 Pickup Truck Models

**5** Half - ton trucks

**3** Three-quarter- ton trucks

The eight (8) models of pick-up trucks included in the this years' challenge were tested under several conditions.

Five half-ton trucks and three three-quarter-ton trucks were tested empty, with a payload in the bed, and while towing.

The half-ton trucks carried 650lbs in the bed for the payload test and pulled 7,000lbs for the towing test.

The three-quarter-ton trucks were tested with a payload of 1,500lbs, and while towing 10,000lbs.

The half-ton vehicles were tested at the Head Lake test track and the three-quarter-ton vehicles were tested at the Georgetown track.

A handwritten signature in black ink, appearing to read 'Alex Koch', positioned above a horizontal line.

Alex Koch  
Truck Measurement Verification  
akoch@fleetcarma.com

The measurement verification authority is responsible for assuring that all data captured is accurate and comparable between vehicles.

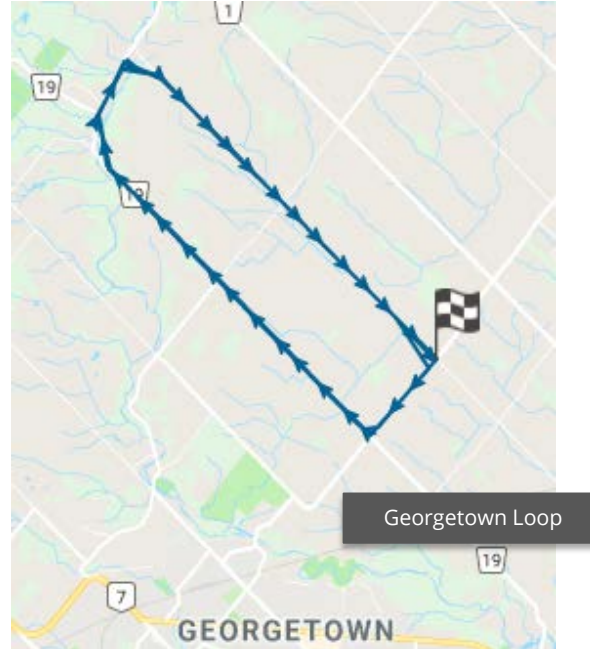
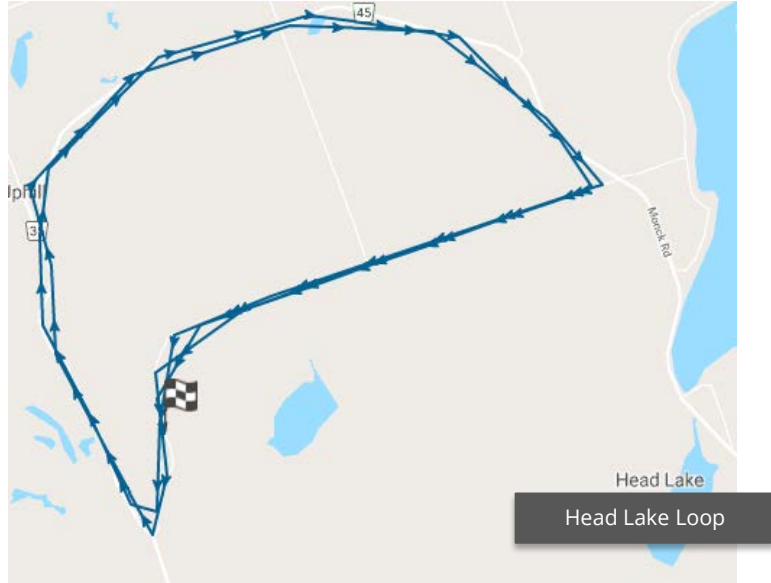
# Test Sequence

## Half - ton Routes: Georgetown

- Empty Loop
- Payload Loop (650 lbs)
- Trailing Loop (7,000 lbs)

## Three-quarter-ton Routes: Head Lake

- Empty Loop
- Payload Loop (1,500 lbs)
- Trailing Loop (10,000 lbs)



## Measurement Device

All vehicles were equipped with a FleetCarma C2 logger.

The system was set up with FleetCarma's advanced energy monitoring software. Data and GPS coordinates were streamed to FleetCarma's servers to enable remote monitoring during the event.

# Half Ton Truck Results



	<b>Nissan</b> Titan	<b>Ram</b> 1500	<b>Chevrolet</b> Silverado 1500	<b>Toyota</b> Tundra	<b>Ford</b> F-150
Engine Type	5.6L V8 390hp 394 ft. lbs.	5.7L V8 395hp 410ft. lbs.	5.3L V8 355hp 383ft. lbs.	5.7L V8 381hp 401ft. lbs.	5.0L V8 395hp 470ft. lbs.
Empty Test Loops	12.96 L/100km	13.18 L/100km	15.05* L/100km	12.40 L/100km	12.67 L/100km
Loaded with 650 lbs	13.75 L/100km	14.70 L/100km	13.36 L/100km	12.93 L/100km	14.30 L/100km
Trailerling 7,000 lbs	20.20 L/100km	19.52 L/100km	20.23 L/100km	19.47 L/100km	22.20 L/100km
Comparable Average	15.60 L/100km	16.38 L/100km	16.15 L/100km	14.95 L/100km	16.44 L/100km

\*Idle time for the Chevrolet Silverado 1500 was 87 mins for the Empty Loop. Accordingly, this test should be considered to be a different drive cycle for the Chevrolet 1500. This may have contributed to the Payload Test having a lower fuel consumption than the Empty Test.

Average driving speed (removing idling time) was approximately 65km/h for all half-ton models in all tests.

On average, Trailerling fuel consumption rose by 35% compared to the Payload Test, and Payload fuel consumption rose by 8% over the Empty Test (not including the Chevrolet 1500).

# Three-Quarter-Ton Truck Results



	Ford F-250	Ram 2500	Chevrolet Silverado 2500*
Engine Type	Super Duty 6.7L Diesel 440hp 935 ft. lbs.	6.7L Diesel Turbo I6 350hp 660ft. lbs.	6.6L Diesel Turbo V8 397hp 765ft. lbs.
Empty Test Loops	13.47 L/100km	12.93 L/100km	12.50 L/100km
Loaded with 650 lbs	13.07 L/100km	12.77 L/100km	--
Trailerling 7,000 lbs	19.49 L/100km	21.52 L/100km	--
Comparable Average	15.16 L/100km	14.79 L/100km	--

\*The data from the Payload and Trailerling Tests for the Chevrolet Silverado 2500 were not successfully recorded. Therefore, a comparable average cannot be calculated for this model.

Idle time for the Payload Test increased by 12% for the Ford F-250 and 6% for the Ram 2500 compared the Empty Test. This may have contributed to the Payload Test having a lower fuel consumption than the Empty Test.

Average driving speed (removing idling time) was approximately 63km/h for all three-quarter-ton models in all tests.

On average, Trailerling fuel consumption rose by 36% compared to the Payload Test.

# For more information

These results summarize the real-world energy consumption of the trucks and vans tested during the 2018 Canadian Truck King Challenge.



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This work was supported by Natural Resources Canada



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