

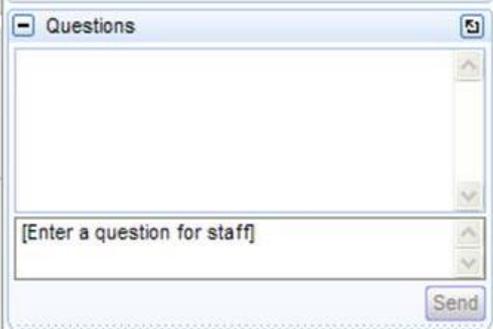
# *SmartWay Truck Tool Advanced Class: Getting the Most out of Your SmartWay Participation*

Erik Herzog, EPA SmartWay  
February 5, 2020



# Housekeeping

- Attendees phone lines are muted to preserve audio quality.
- Submit a question via the Questions box on your GoTo control panel.
- After the presentation, as time permits, our EPA presenters will answer questions submitted via the Questions box.
- Please complete the survey at the end of today's webinar. Your feedback is important to us!



# SmartWay

## SmartWay Turns 15 Years Old!

For 15 years, our Partners & Affiliates have worked for cleaner, more fuel-efficient freight transportation!

[Learn how!](#)



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- 2
- 3
- 4



### SmartWay Latest News

- January/February [Affiliate Calendar](#)
- VIDEO: [EPA Congratulates 2018 SmartWay Excellence Award Recipients](#) [EXIT](#)

More [SmartWay News](#)

[www.epa.gov/smartway](http://www.epa.gov/smartway)

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- [Why Freight Matters](#)
- [How SmartWay Advances Sustainable Transportation Supply Chains](#)
- [Sustainability Accounting & Reporting](#)
- [SmartWay Program Successes](#)
- [Trends, Indicators & Partner Statistics](#)

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- [How to Participate in SmartWay](#)
- [How the SmartWay Partnership Works](#)
- Become a SmartWay:
  - [Shipper](#)
  - [Logistics Company](#)
  - [Carrier](#)
  - [Affiliate](#)

## Upcoming Webinars & Events

- **February 27, 2019- Education Webinar:** [2019 SmartWay Excellence Award Criteria](#)
- **March 14, 2019-Tool Demo Webinar:** [Advanced Truck Tool Webinar](#)

[View Scheduled Webinars and Past Webinar Recordings](#)

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**Webinars/Events**

## SmartWay Webinars & Events

EPA hosts **free webinars** to help you learn how to get the most out of the SmartWay Program.



### View SmartWay Webinars

Upcoming Webinars

**Past Webinars** 

**Past Webinars:** Descriptions, links to webinar recordings, and presentation slides for past webinars are listed below.

[Event Type Legend](#)

Type	Event Name
Freight Matters Webinars	<a href="#">The "Green Supply Chain": A critical assessment of a multimodal, multinational freight supply chain of a Fortune 50 retailer</a>
Tool Demo Webinar	<a href="#">2018 SmartWay Shipper Tool Webinar</a>

[www.epa.gov/smartway/smartway-webinars-events#smartway-webinars-past](http://www.epa.gov/smartway/smartway-webinars-events#smartway-webinars-past)



## Presenter: Erik Herzog

Erik Herzog has been with the EPA Office of Transportation and Air Quality for 31 years, and has been working with SmartWay for the last thirteen. He has worked on development of the SmartWay partner tools, and on many aspects of program evaluation, including data quality, emissions reduction benefits, and harmonizing SmartWay methodologies with other green freight protocols. He has a Bachelor's in Psychology from Bethany College, a Master's in Natural Resource Policy from the University of Michigan, and an Advanced Certificate in Sustainable Innovation from the University of Vermont.

# *SmartWay Truck Tool Advanced Class: Getting the Most out of Your SmartWay Participation*

Erik Herzog, EPA SmartWay  
February 5, 2020



# Covered Today

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- Background
- SmartWay Ranking: how we do it and why it's important
- How your data entry choices yield more useful results
- How to read and understand SmartWay data reports
- How Shippers use SmartWay data and what it means for you
- SmartWay Metrics – What they mean
- How to use SmartWay data to improve performance

# Not Covered Today



- This is not a demo on how to fill out the tool
- For that, please refer to the Basic Truck Tool Webinar
  - Presented January 22
  - Available for replay at:
  - <https://www.epa.gov/smartway/smartway-webinars-events#past>

## Past Webinars

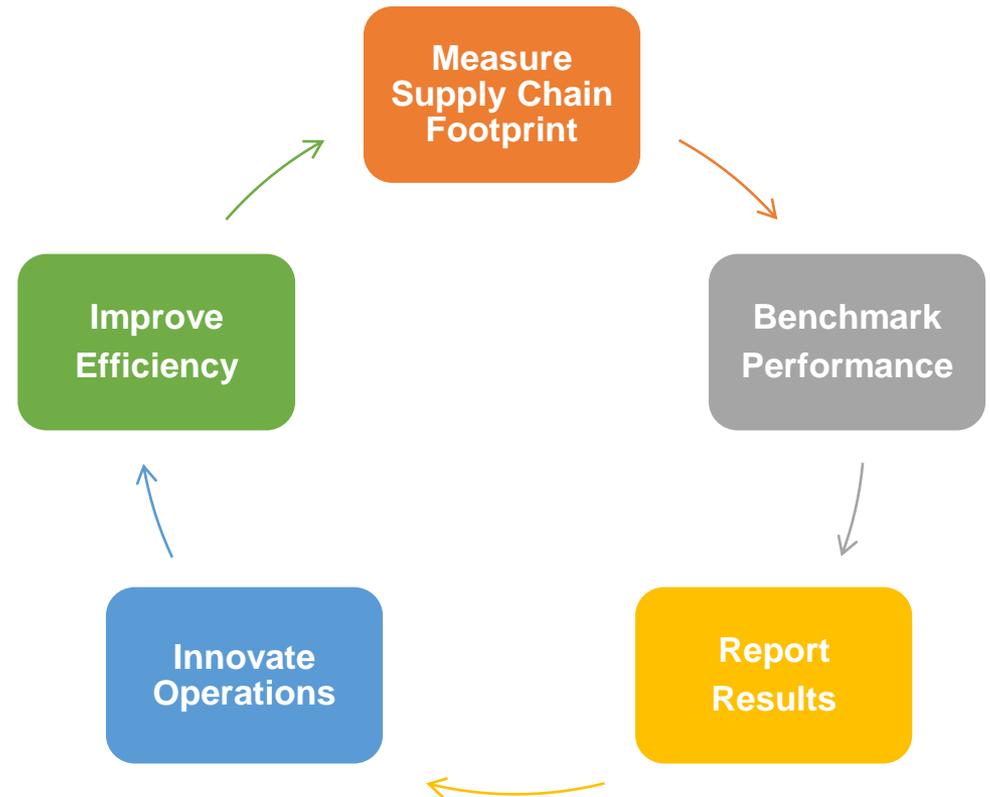
[Event Type Legend](#)

↕ Type	↕ Event Name
Tool Demo Webinar	<a href="#">Introduction to the 2020 SmartWay Truck Carrier Tool</a>
Education webinar	<a href="#">SmartWay New and Prospective Partner Orientation: Tips for a Rewarding Partnership Experience!</a>
Education	

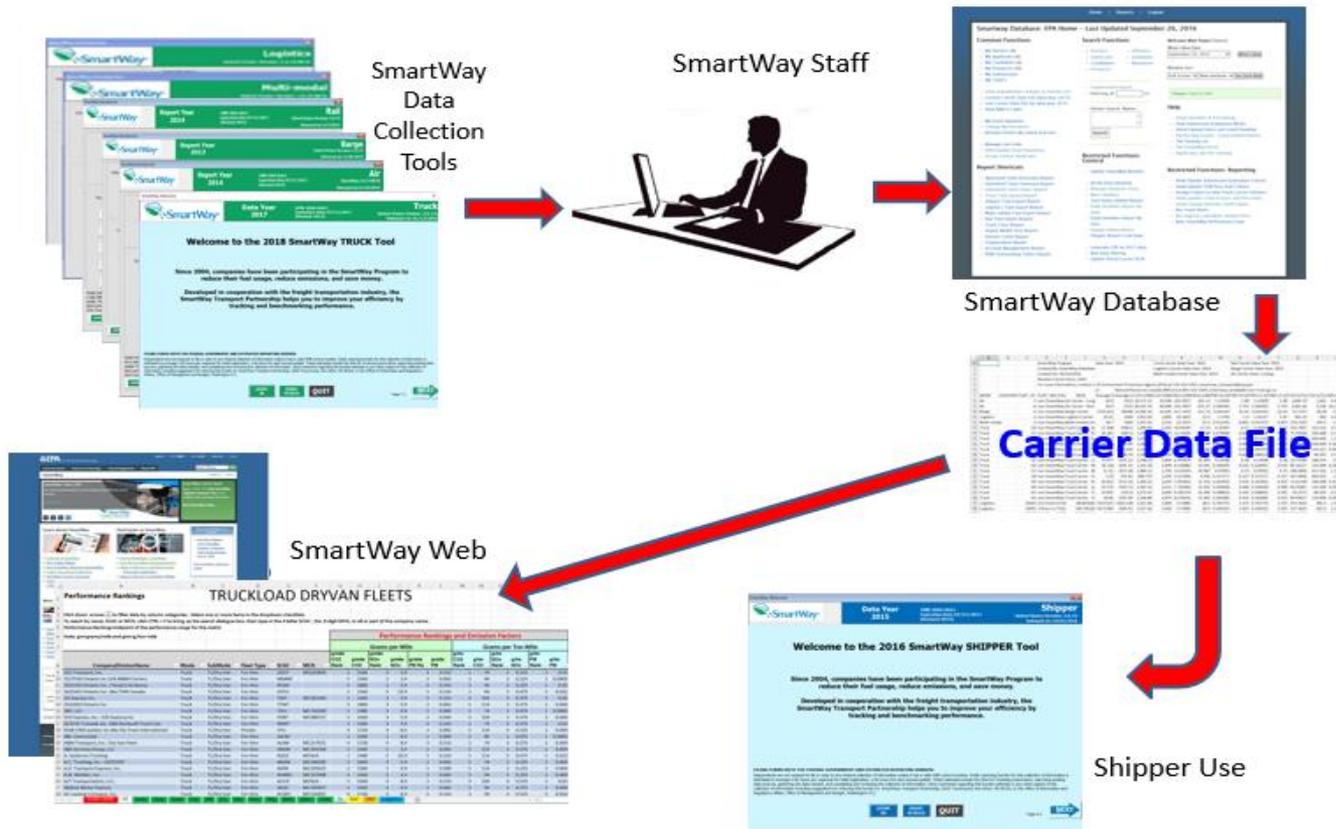
# Background



 SmartWay is continuous improvement for the Environment and Efficiency



# The SmartWay System



# SmartWay Rankings: **Why** we do it.



- **SmartWay offers companies a way to benchmark and improve environmental performance in goods movement**
  - Providing environmental efficiency information allows companies to see how they compare with their peers, and how they change over time
  - Companies can identify areas to improve and make positive change
  - Contributes to cleaner, leaner freight logistics across supply chains
- **Shippers need Smartway environmental data for their carriers**
  - SmartWay provides a standardized data system for Shippers
  - Without SmartWay, Shippers would need to ask each carrier individually causing additional work for carriers and for shippers
  - Helps shippers translate corporate sustainability goals into measurable metrics for CSR reporting and annual performance reports
  - Shippers and many carriers see brand value in using the Smartway logo and promoting green business practices in their advertising
  - Carriers benefit from shippers' use of SmartWay participation in carrier hiring decisions, key performance indicators and incentive structures
  - Carriers and shippers can access additional peer-to-peer knowledge to improve operational practices

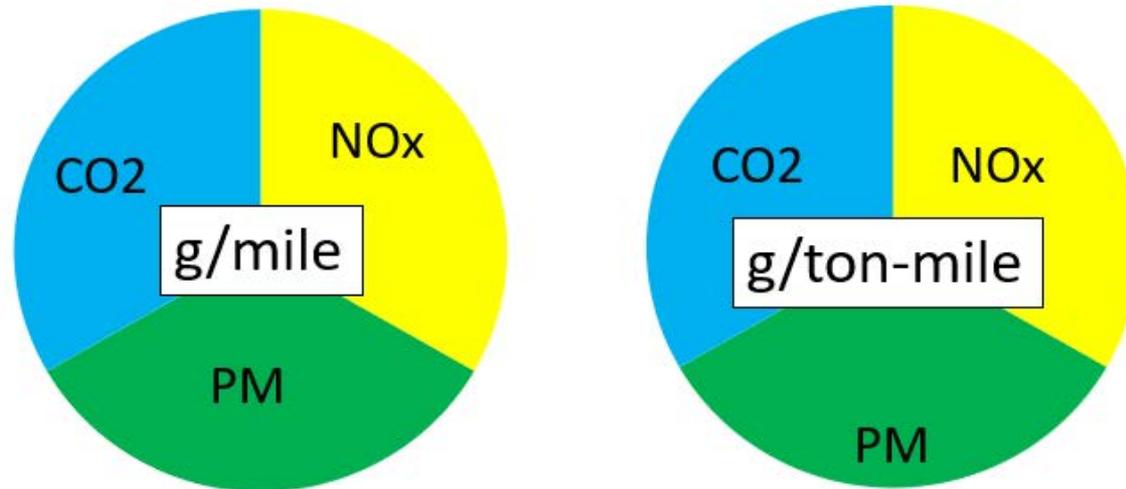
# SmartWay Rankings: **How** we do it.



- By indexing the Operation type and Body type, SmartWay creates peer groups for comparison.
- Note: If you are not at least a 75% match for a SmartWay category, then your fleet is placed in a mixed category. Comparisons in the Mixed category are not as specific as the other categories.
- Each SmartWay truck category has five performance levels for each performance metric.

2018 SmartWay Carrier Categories and Data Specificity									
TRUCK	Dry Van & Chassis	Reefer and Reefer Chassis	Flatbed	Tanker	Heavy & Bulk	Auto Carrier	Moving	Specialized & Utility	Mixed
Dray	Dray 5 Performance Levels								
Truckload	Truckload DryVan 5 Performance Levels	Reefer 5 Performance Levels	Flatbed 5 Performance Levels	Tanker 5 Performance Levels	Heavy & Bulk 5 Performance Levels	Auto Carrier 5 Performance Levels	Moving 5 Performance Levels	Specialized & Utility 5 Performance Levels	Mixed 5 Performance Levels
Expedited	Expedited 5 Performance Levels								
LTL	LTL 5 Performance Levels								
Package	Package Delivery 5 Performance Levels								
Mixed	Mixed								

# SmartWay Rankings: **How** we do it.



## SmartWay's Current 6 Emission Metrics

Pollutants		Metrics	
CO2	Carbon Dioxide: a surrogate for fuel efficiency and global warming	Grams per Mile	Amount of pollution produced for every mile travelled
NOx	Oxides of Nitrogen: known for creating smog, a concern for local areas	Grams per Ton-mile	Amount of pollution produced for every ton that travels one mile, usually the best metric to use
PM	Particulate Matter: known for creating black soot, a concern for local areas		

# SmartWay Rankings: **How** we do it.



- Your NOx and PM g/mile scores are determined **mostly** by:
  - The AGE and CLASS (2b-8b) of your trucks
  - Fuel TYPE (diesel, gasoline, LPG, LNG, CNG, electric, hybrid)
  - Miles travelled
- And also by:
  - Biodiesel or ethanol usage
  - Road Type/Speed categories & Idling
  - For PM only: PM Reduction equipment
  - Highway vs. Rural Driving, and Speed categories for urban driving
  - PM can be further reduced (pre-2007 trucks) by use of oxidation catalysts, particulate traps and closed crankcase ventilation

Truck: ABC Trucking, Inc.: East Operations

General Information Diesel Gasoline LPG LNG CNG Electric Hybrid Data Sources

Engine Model Year & Class Activity Information PM Reduction

- Select the checkbox for each class in your fleet which will activate the white data entry fields.
- Input the number of trucks you have as of Dec 31 of the reporting year by class and engine model year.
- Truck class totals are automatically calculated for you.

**Diesel**

Gross Vehicle Weight Rating (pounds) ?

Note: The silhouettes represent example truck types for each class, and are not all-inclusive.

	Total Trucks	Class 2b 8,501-10,000	Class 3 10,001-14,000	Class 4 14,001-16,000	Class 5 16,001-19,500	Class 6 19,501-26,000	Class 7 26,001-33,000	Class 8a 33,001-60,000	Class 8b 60,001 & above
Totals:	85	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>				
2019	4	<input type="checkbox"/>	4	<input type="checkbox"/>	<input type="checkbox"/>				
2018	20	<input type="checkbox"/>	<input type="checkbox"/>	20					
2017	15	<input type="checkbox"/>	15	<input type="checkbox"/>	<input type="checkbox"/>				
2016	15	<input type="checkbox"/>	<input type="checkbox"/>	15					
2015		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
2014		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
2013	10	<input type="checkbox"/>	<input type="checkbox"/>	10					
2012		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
2011		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
2010	15	<input type="checkbox"/>	<input type="checkbox"/>	15					

Hide Unchecked Classes

BACK SAVE HELP ZOOM IN PRINT SCREEN HOME VALIDATE SCREEN ADD COMMENTS Screen Demo NEXT

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# SmartWay Rankings: **How** we do it.



Your NOx and PM **g/ton-mile** scores are based on the mass of emissions determined by the previous inputs and adjusted by **Average Payload**



Truck: ABC Trucking, Inc.: East Operations

General Information Diesel Gasoline LPG LNG CNG Electric Hybrid Data Sources

Engine Model Year & Class Activity Information PM Reduction

Input your activity information in the white boxes by truck class. Green boxes will appear underneath some data entry cells that will activate a pop-up screen to help you with your inputs. The totals for all your trucks will be summed/averaged on the left.

Diesel	Totals/ Average	Input Data: by Truck Class	
	All Classes ?	7	8b
? Total Miles Driven (exact values)	8,985,864	1,497,896	7,487,968
? Revenue Miles Driven (exact values)	8,551,855	1,450,893	7,100,962
? Empty Miles Driven (exact values)	434,009	47,003	387,006
? Gallons of Diesel Used, incl. Biodiesel & Reefer (exact values)	1,755,865	207,969	1,547,896
	MPG check -->	7.2	4.8
	Miles per truck check -->	59,916	124,799
? Gallons of Biodiesel (B100 Equivalents)	10,979	Input Biodiesel	Allocate Diesel Using class MPG
? Average Payload (tons) - Cargo Weight Only One ton = 2000 lbs	16.93	9.3	18.46
		Payload Calculator	Payload Calculator
? Truck Cargo Volume (cubic feet)	3,322	2,510	3,485
		Volume Calculator	Volume Calculator
? Average Used Cargo Volume % (excluding empty miles)	90.67	89	91
? Road Type / Speed Categories		13 / 11 / 4 / 72*	6 / 5 / 1 / 88*
		Enter Speeds	Enter Speeds
? Average Annual Idle Hours per Truck	756	821	729
		Idling Hours Calculator (All Classes)	

BACK SAVE HELP ZOOM IN PRINT SCREEN HOME VALIDATE SCREEN ADD COMMENTS Screen Demo NEXT

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# SmartWay Rankings: **How** we do it.



- Your CO2 g/mile score is **mostly** determined by:
- Fuel burned and total miles travelled
- Fuel type

Truck: ABC Trucking, Inc.: East Operations

General Information | **Diesel** | Gasoline | LPG | LNG | CNG | Electric | Hybrid | Data Sources

Engine Model Year & Class | Activity Information | PM Reduction

Input your activity information in the white boxes by truck class. Green boxes will appear underneath some data entry cells that will activate a pop-up screen to help you with your inputs. The totals for all your trucks will be summed/averaged on the left.

Diesel	Totals/ Average	Input Data: by Truck Class	
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		Enter Speeds	Enter Speeds
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BACK SAVE HELP ZOOM IN PRINT SCREEN HOME VALIDATE SCREEN ADD COMMENTS Screen Demo NEXT

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# SmartWay Rankings: **How** we do it.



Your CO2 **g/ton-mile** score is based on the mass of emissions determined by the previous inputs and adjusted by **Average Payload**



Truck: ABC Trucking, Inc.: East Operations

General Information	Diesel	Gasoline	LPG	LNG	CNG	Electric	Hybrid	Data Sources
Engine Model Year & Class	Activity Information		PM Reduction					
Input your activity information in the white boxes by truck class. Green boxes will appear underneath some data entry cells that will activate a pop-up screen to help you with your inputs. The totals for all your trucks will be summed/averaged on the left.								
	Totals/Average		Input Data: by Truck Class					
Diesel	All Classes ?	7	8b					
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		Enter Speeds	Enter Speeds					
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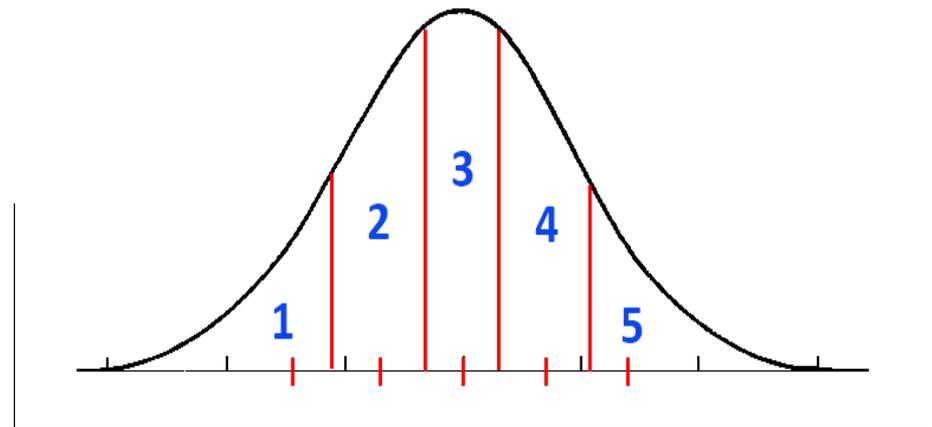
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# SmartWay Rankings: **How** we do it.



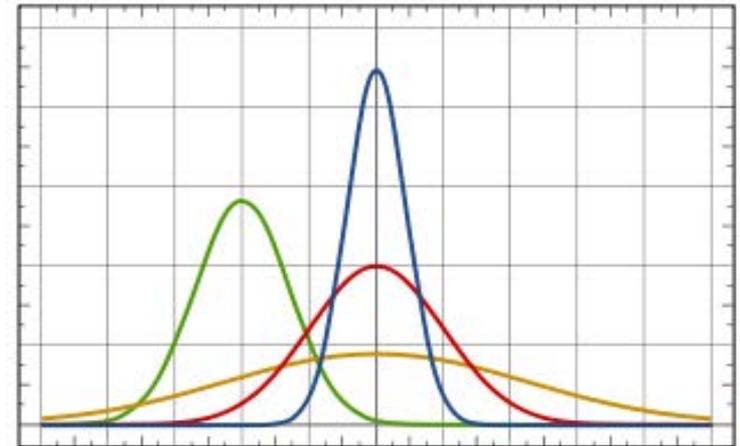
- For trucking companies, SmartWay displays your results in one of five performance ranges.
- A distribution curve is developed for each SmartWay category for each emission metric.
- SmartWay divides each curve such that each performance range is composed of *approximately 20%* of fleets.
- SmartWay lists the high and low ranges of each performance metric, and displays the **midpoint** emission number publicly for each range.
- All companies have the midpoint of the range displayed as their number for that performance metric, as well as their performance number (1-5)



# SmartWay Rankings: **How** we do it.



- There is a specific distribution for each SmartWay category and each performance metric so each SmartWay Category performance metric is **unique**
  - The midpoint of a Range 1 Score for Truckload Dry Van is **NOT** the same as the Range 1 score for Flatbed, Reefer, or any other SmartWay category.
  - While both represent approximately the top 20% of their categories, the categories are not alike –
    - Operational differences such as duty-cycle, special needs such as reefer fuel, tanker one-way operation, and other factors
- 🌱 For Example
- Range 1 Truckload Dry van CO<sub>2</sub> is 1400 g/mile.
  - Range 1 Refrigerated CO<sub>2</sub> is 1475 g/mile.
  - Range 1 Flatbed CO<sub>2</sub> is 1550 g/mile.
  - Therefore, the Range (1-5) Rankings are only **relative** rankings and are relevant within category, not across categories.
  - However, the g/mile, and gram/ton-mile numbers represent actual performance and are comparable



## SmartWay Rankings: **How** we do it.



- **Non-SmartWay carriers** receive a default value equivalent to a calculated “Performance Range 6” number (e.g., more polluting than other similar carriers).
- A default value is needed to account for the percent of a shipper’s freight carried by non-SmartWay partners. It is calculated since (by definition) non-SmartWay partners do not submit data
- Within each carrier fleet category, any company submitting data to SmartWay will have an emission factor that is lower (“better”) than a non-partner.
- EPA uses this conservative approach -- not assuming that non-SmartWay partners are MORE efficient than SmartWay partners – to not understate Shipper emissions.
- This approach also reduces any unfair advantage that non-partners might receive in the program over partners that do submit information.
- The approach also provides an incentive for Shippers to use SmartWay carriers, in order to obtain a more accurate carbon footprint. A good SmartWay ranking enables a carrier to market itself as a greener carrier.

# Public Carrier Performance Data



## Performance Rankings

TL/Dry Van

Click down arrows to filter data by column categories. Select one or more items in the dropdown checklists.

Note: g/m=grams/mile and g/tm=g/ton-mile

											Performance Rankings and Emission Factors									
											Grams per Mile					Grams per Ton-mile				
Carrier Fleet Name	SmartWay Ranking	Fleet Category	Type	SCAC	MCN	US DO	Canadian	g/m CO2		g/m NOx		g/m PM		g/tm CO2		g/tm NOx		g/tm PM		
								Rank	CO2	Rank	NOx	Rank	PM	Rank	CO2	Rank	NOx	Rank	PM	
Truck	TL/Dry Van	For-Hire	OZOT		625894	1705392	N/A	3	1600	4	7	5	0.086	2	81.5	5	0.445	3	0.007	
Truck	TL/Dry Van	For-Hire	MNMR			1159500	142970520	3	1600	4	7	2	0.026	3	90.5	4	0.355	2	0.003	
Truck	TL/Dry Van	For-Hire	ROAD	N/A		1063823	143440740	5	1800	3	5	2	0.026	4	99.5	3	0.265	1	0.0005	
Truck	TL/Dry Van	For-Hire	PDGH		521737	1360591	N/A	3	1600	2	3	2	0.026	2	81.5	2	0.175	1	0.0005	
Truck	TL/Dry Van	For-Hire	FSEP		181440	284589	N/A	1	1400	2	3	4	0.066	3	90.5	3	0.265	2	0.003	
Truck	TL/Dry Van	For-Hire	DFHR		691346	1937937	N/A	4	1700	4	7	5	0.086	5	108.5	5	0.445	5	0.015	
Truck	TL/Dry Van	For-Hire	SWYC		N/A	230633	N/A	5	1800	1	1	1	0.006	5	108.5	1	0.085	1	0.0005	
Truck	TL/Dry Van	For-Hire	TTWT		N/A	N/A	173-333-054	3	1600	2	3	5	0.086	4	99.5	3	0.265	3	0.007	
Truck	TL/Dry Van	For-Hire	THLL		716290	2042543	N/A	3	1600	1	1	1	0.006	2	81.5	1	0.085	1	0.0005	
Truck	TL/Dry Van	For-Hire	FDRP		488737	1243083	N/A	3	1600	2	3	2	0.026	3	90.5	2	0.175	2	0.003	
Truck	TL/Dry Van	For-Hire	RKWT		797845	2333669	148783160	2	1500	3	5	5	0.086	1	72.5	3	0.265	4	0.011	
Truck	TL/Dry Van	Private	STFW		852013	2465329	179734309	3	1600	1	1	1	0.006	3	90.5	1	0.085	1	0.0005	
Truck	TL/Dry Van	Private	VTIL		471471	1175764	60331659	3	1600	1	1	1	0.006	1	72.5	1	0.085	1	0.0005	
Truck	TL/Dry Van	For-Hire	ALKM		217072	344894	N/A	3	1600	3	5	4	0.066	3	90.5	3	0.265	2	0.003	
Truck	TL/Dry Van	For-Hire	ANSW,AS		164166	1880751	N/A	5	1800	3	5	2	0.026	5	108.5	3	0.265	2	0.003	
Truck	TL/Dry Van	For-Hire	AKGM		196190	281881	N/A	3	1600	3	5	2	0.026	1	72.5	3	0.265	2	0.003	
Truck	TL/Dry Van	For-Hire	ADXR		195625	0269605	N/A	3	1600	2	3	2	0.026	5	108.5	3	0.265	2	0.003	
Truck	TL/Dry Van	For-Hire	WANQ		147008	76507	N/A	3	1600	2	3	2	0.026	2	81.5	2	0.175	2	0.003	
Truck	TL/Dry Van	For-Hire	AUCR		N/A	1486485	N/A	3	1600	2	3	5	0.086	4	99.5	2	0.175	3	0.007	
Truck	TL/Dry Van	For-Hire	AONA		874455	2519373	2519373	4	1700	2	3	2	0.026	2	81.5	2	0.175	2	0.003	
Truck	TL/Dry Van	For-Hire	ACWH		156691	264128	N/A	2	1500	5	9	5	0.086	1	72.5	5	0.445	5	0.015	
Truck	TL/Dry Van	For-Hire	OFNS		548067	1450334	129295853	3	1600	5	9	5	0.086	2	81.5	5	0.445	5	0.015	
Truck	TL/Dry Van	For-Hire	AGTE		569163	1525204	153 767 479	2	1500	2	3	3	0.046	2	81.5	2	0.175	2	0.003	
Truck	TL/Dry Van	For-Hire	ALBK		803750	2348464	N/A	5	1800	4	7	2	0.026	3	90.5	4	0.355	2	0.003	
Truck	TL/Dry Van	For-Hire	ALLM		154127	169025	N/A	3	1600	2	3	3	0.046	3	90.5	2	0.175	2	0.003	
Truck	TL/Dry Van	Dedicated	AMJO		S/O	1257162	61668976	4	1700	2	3	2	0.026	2	81.5	2	0.175	2	0.003	
Truck	TL/Dry Van	For-Hire	AMCM		789656	2313051	N/A	1	1400	5	9	5	0.086	1	72.5	5	0.445	5	0.015	
Truck	TL/Dry Van	For-Hire	ARXX		588686	1590621	N/A	1	1400	5	9	5	0.086	1	72.5	5	0.445	3	0.007	

# Understanding Your SmartWay Rankings



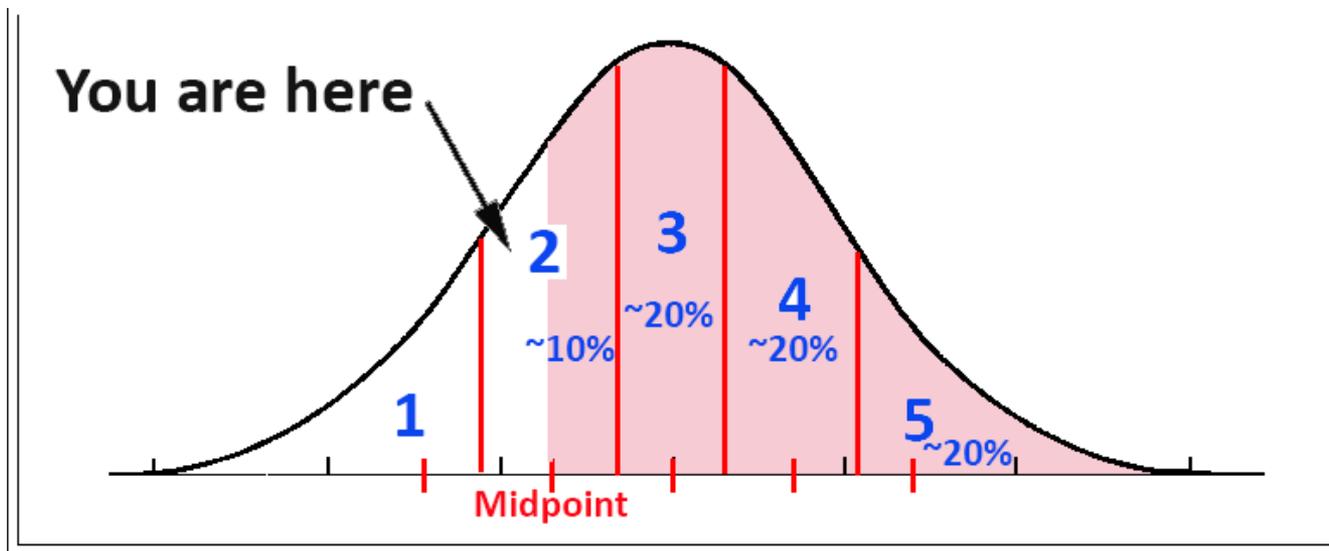
Remember: Scores tell a story and each fleet is unique!

- Example 1: BEST Possible SmartWay Score
  - CO2 g/ton-mile:1
  - CO2 g/mile: 1
  - NOx g/ton-mile: 1
  - NOx g/mile: 1
  - PM g/ton-mile: 1
  - PM g/mile: 1
- Example 2: Highly fuel efficient fleet using older trucks SmartWay Score
  - CO2 g/ton-mile:1
  - CO2 g/mile: 1
  - NOx g/ton-mile: 5
  - NOx g/mile: 5
  - PM g/ton-mile: 5
  - PM g/mile: 5
- Example 3: A fleet with all new trucks, with very light loads
  - CO2 g/ton-mile:5
  - CO2 g/mile: 1
  - NOx g/ton-mile: 3
  - NOx g/mile: 1
  - PM g/ton-mile: 3
  - PM g/mile: 1
- Example 4: A fleet that uses a lot of double and triple trailers with a mix of old and new trucks
  - CO2 g/ton-mile:1
  - CO2 g/mile: 5
  - NOx g/ton-mile: 2
  - NOx g/mile: 4
  - PM g/ton-mile: 2
  - PM g/mile: 4

# Understanding Your SmartWay Rankings



- So...how good am I?
- Example: You are a Refrigerated Carrier and are in Range 2 for Grams per Ton-mile.
- This means that at a minimum you are better than 60% of refrigerated carriers in this metric, and could be better than 80% at most. If your actual g/ton-mile is better than the midpoint for Range 2 (what is displayed publicly), then you are likely better than 70% of refrigerated carriers.
- If you are in Range 5, then at least 80% of your peers are doing better than you.



# Truck Tool Data Reports

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 *“What you put in is what you get out...”*

 *“If you put in the effort, you might as well reap the rewards”*

# Accessing Your Reports



SmartWay Truck: Home

**Data Year**  
2017

OMB 2060-0663  
Expiration Date 07/31/2017  
(Revised 2014)

**Truck**  
United States Version: 2.0.17a  
Released on: 01/12/2018

Please complete the following steps. Check boxes on the left indicate successful completion of each step. For more information, select the 'Help' button.

- 1. Enter Partner Name** (Exactly as it should appear on the SmartWay website):
- 2. Contact Information**
- 3. Fleet Description(s)**
- 4. Data Entry** (Double-click the fleet name or select and hit Enter):
- 5. Give us Feedback** ? Optional survey to help us improve your SmartWay experience.
- 6. Generate a (.xml) data file** ? To complete your submission, email the small (.xml) data file and your large (.xism) tool file to EPA. If your email size limit cannot handle the tool file, send only the smaller data file.

---

**YOUR RESULTS**

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# Data Reports



SmartWay Reports

Please select the report you would like to view:

- Internal Metrics** Estimates the CO<sub>2</sub>, NO<sub>x</sub>, and PM emissions for your fleets. You can view these estimates based on truck class, fuel type, or fleet.
- Fleet Description(s)** Displays all of the data you entered in the Fleet Description(s) section.
- General Information** Displays all of the data you entered in the General Information section.
- Truck Counts** Displays all of the data you entered in the Engine Model & Year section.
- Activity Information** Displays all of the data you entered in the Activity Information section.
- Reefer Fuel Consumption** Displays all of the data you entered in the Reefer Fuel screen in the Activity Info section.
- PM Reduction Strategies** Displays all of the data you entered in the PM Reduction section.
- Comments** Displays all of the comments that have been entered throughout the tool.
- Out of Range** Displays all of the values throughout the Tool that were not within the expected range.
- Data Sources** Displays all of the data source information you provided throughout the Tool.
- Give Us Feedback** Displays the feedback and suggestions you provided in Step 5.

BACK HELP ZOOM IN

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SmartWay Reports

Select the level of detail you wish to display

- Display only totals
- Display details for each Fleet
- Display details for each Truck Class
- Display details for each Fleet and Truck Class combination
- Display details for each Fuel Type
- Display details for each Fleet and Fuel Type combination
- Display details for each Fleet, Fuel Type, and Truck Class combination

OK

SmartWay Internal Metrics Partner: ABC Trucking, Inc. Tool: Truck Display Option #6: By Fleet and Fuel Type

CO <sub>2</sub>	Total Tons (Short)	Total Miles				Loaded Miles				Emissions	
		Grams per Average Postload Ton-Mile (Etotal)	Grams per Thousand Postload Ton-Miles (Etotal)	Grams per Thousand Utilized Cubic Feet (Etotal)	Grams per Thousand Utilized Cubic Feet (Etotal)	Grams per Average Postload Ton-Mile (Eloaded)	Grams per Thousand Utilized Cubic Feet (Eloaded)	Grams per Thousand Utilized Cubic Feet (Eloaded)	Grams per Average Postload Ton-Mile (Eemissions)	Grams per Average Postload Ton-Mile (Eemissions)	
		(Etotal)	(Etotal)	(Etotal)	(Etotal)	(Eloaded)	(Eloaded)	(Eloaded)	(Eemissions)	(Eemissions)	
ABC Trucking, Inc. East Fleet - Diesel	19,696	1,983	177	588	2,669	523	629	834	2,685	133	
ABC Trucking, Inc. East Fleet - Gasoline	1,453	782	2,204	2,467	1,591	658	698	2,123	1,836	801	
ABC Trucking, Inc. West Fleet - Diesel	16,121	1,393	94	676	2,197	380	698	1,875	1,752	176	
ABC Trucking, Inc. West Fleet - Gasoline	24	1,137	558	1,562	1,120	1,179	548	1,855	1,179	530	
ABC Trucking, Inc. West Fleet - LPG	69	895	238	1,351	1,778	398	1,423	1,885	398	348	
ABC Trucking, Inc. West Fleet - LNG	131	1,765	593	1,694	1,346	369	746	1,373	1,454	746	
ABC Trucking, Inc. West Fleet - CNG	124	1,390	441	1,616	1,250	466	1,020	2,341	1,250	466	
ABC Trucking, Inc. West Fleet - Electric	5	232	466	452	1,054	253	527	740	1,052	253	
ABC Trucking, Inc. West Fleet - Hybrid	28	1,044	1,900	1,941	2,696	1,197	1,263	2,115	2,935	1,197	

NO <sub>x</sub>	Total Tons (Short)	Total Miles				Loaded Miles				Emissions	
		Grams per Average Postload Ton-Mile (Etotal)	Grams per Thousand Postload Ton-Miles (Etotal)	Grams per Thousand Utilized Cubic Feet (Etotal)	Grams per Thousand Utilized Cubic Feet (Etotal)	Grams per Average Postload Ton-Mile (Eloaded)	Grams per Thousand Utilized Cubic Feet (Eloaded)	Grams per Thousand Utilized Cubic Feet (Eloaded)	Grams per Average Postload Ton-Mile (Eemissions)	Grams per Average Postload Ton-Mile (Eemissions)	
		(Etotal)	(Etotal)	(Etotal)	(Etotal)	(Eloaded)	(Eloaded)	(Eloaded)	(Eemissions)	(Eemissions)	
ABC Trucking, Inc. East Fleet - Diesel	35.9	3.6	0.21	1,091	1,202	3.8	0.22	1,147	1,264	3.8	
ABC Trucking, Inc. East Fleet - Gasoline	0.5	0.4	0.24	0.676	0.766	0.5	0.26	0.744	0.845	0.5	
ABC Trucking, Inc. West Fleet - Diesel	34.9	1.9	0.30	0.605	0.665	2.1	0.11	0.675	0.742	2.1	
ABC Trucking, Inc. West Fleet - Gasoline	0.0	0.5	0.27	0.775	0.843	0.6	0.23	0.826	0.826	0.6	
ABC Trucking, Inc. West Fleet - LPG	0.1	1.0	0.37	1,544	2,031	0.6	0.40	1,636	2,453	1.1	
ABC Trucking, Inc. West Fleet - LNG	0.2	0.9	0.70	1,234	1,559	1.2	0.69	1,639	1,974	1.2	
ABC Trucking, Inc. West Fleet - CNG	0.1	0.7	0.35	1,020	1,254	0.7	0.26	1,087	1,325	0.7	
ABC Trucking, Inc. West Fleet - Electric	0.0	0.2	0.31	0.430	0.601	0.2	0.32	0.468	0.725	0.2	
ABC Trucking, Inc. West Fleet - Hybrid	0.0	0.5	0.54	0.907	1,260	0.5	0.59	0.968	1,372	0.5	

# Accessing Your Reports



- Tool data reports are strictly internal to what you have entered into the tool.
- Good for double-checking your inputs.

A screenshot of the 'SmartWay Reports' web interface. The window title is 'SmartWay Reports' with a close button (X) in the top right. Below the title bar, there is a heading 'Please select the report you would like to view:' followed by a list of report categories, each with a green button and a description. At the bottom of the interface, there are three buttons: 'BACK' (with a left-pointing arrow), 'HELP', and 'ZOOM IN'. The page number 'Page T-53' is located in the bottom right corner.

Report Category	Description
<b>Internal Metrics</b>	Estimates the CO <sub>2</sub> , NO <sub>x</sub> , PM, and Black Carbon emissions for your fleets. You can view these estimates based on truck class, fuel type, or fleet.
<b>Fleet Description(s)</b>	Displays all of the data you entered in the Fleet Description(s) section.
<b>General Information</b>	Displays all of the data you entered in the General Information section.
<b>Truck Counts</b>	Displays all of the data you entered in the Engine Model & Year section.
<b>Activity Information</b>	Displays all of the data you entered in the Activity Information section.
<b>Reefer Fuel Consumption</b>	Displays all of the data you entered in the Reefer Fuel screen in the Activity Info section.
<b>PM Reduction Strategies</b>	Displays all of the data you entered in the PM Reduction section.
<b>Comments</b>	Displays all of the comments that have been entered throughout the tool.
<b>Out of Range</b>	Displays all of the values throughout the Tool that were not within the expected range.
<b>Data Sources</b>	Displays all of the data source information you provided throughout the Tool.
<b>Give Us Feedback</b>	Displays the feedback and suggestions you provided in Step 5.
<b>Public Disclosure Report</b>	Displays the Scope 1, Scope 2, biogenic and non-carbon emissions.

# Accessing Your Reports



This tool has been reviewed by [The World Resource Institute](#) for conformance with the [GHG Protocol Corporate Standard](#)



**Activity Information**  
**Partner:** ABC Trucking, Inc.  
**Tool:** Truck

Report generated on: 02/06/2018

Data Year: 2017

Fleet Name	Fuel Type	Class	Number of Trucks	Fuel (Gallons or kWh)*	Barrels of Oil**	Barrels of Diesel/Gasoline	Biofuel (B100/E100 Equiv. Gals.)	Vehicle Efficiency***	Total Annual Miles Driven	Total Annual Revenue Miles	Total Annual Empty Miles	Average Payload (tons/truck)*	Truck Cargo Volume (cu ft/truck)*	Average Used Cargo Volume % ^	% Highway or Rural Driving*	% Urban Driving (Under 25 mph)*	% Urban Driving (25 mph to 50 mph)*	% Urban Driving (Over 50 mph)*	Average Idle Hours (per truck per year)
ABC Trucking, Inc.: East Operations	Diesel	7	25	207,969	20,667	4,921	1,300	7.2	1,497,896	1,450,893	47,003	9.30	2,510	89.00%	72%	13%	11%	4%	821
ABC Trucking, Inc.: East Operations	Diesel	8b	60	1,547,896	153,822	36,624	9,679	4.8	7,487,968	7,100,962	387,006	18.46	3,485	91.00%	88%	6%	5%	1%	729
ABC Trucking, Inc.: East Operations	Gasoline	3	10	68,987	3,631	1,643	0	6.5	447,896	400,894	21,002	1.40	606	88.00%	62%	18%	15%	5%	560
ABC Trucking, Inc.: East Operations	Gasoline	4	15	107,896	5,679	2,569	0	5.5	598,589	528,586	70,003	2.33	700	89.00%	72%	13%	11%	4%	300
<b>Total ABC Trucking, Inc.: East Operations</b>	<b>All</b>	<b>All</b>	<b>110</b>	<b>1,932,748</b>	<b>183,799</b>	<b>45,757</b>	<b>10,979</b>	<b>5.2</b>	<b>10,032,349</b>	<b>9,481,335</b>	<b>525,014</b>	<b>15.37</b>	<b>3,045</b>	<b>90.45%</b>	<b>83%</b>	<b>8%</b>	<b>7%</b>	<b>2%</b>	<b>676</b>
ABC Trucking, Inc.: West Operations	Diesel	6	10	48,969	4,897	1,166	0	5.9	289,689	239,682	50,007	5.05	1,384	87.00%	62%	18%	15%	5%	402
ABC Trucking, Inc.: West Operations	Diesel	8b	60	1,298,584	129,858	30,919	0	5.3	6,879,689	6,179,682	700,007	18.86	3,186	91.00%	78%	11%	8%	3%	551
ABC Trucking, Inc.: West Operations	Gasoline	3	15	9,874	520	235	0	7.7	75,987	71,986	4,001	2.02	706	92.00%	74%	13%	10%	3%	245
ABC Trucking, Inc.: West Operations	LPG	5	10	10,582	N/A	N/A	N/A	6.7	70,658	66,652	4,006	2.71	655	76.00%	35%	31%	26%	8%	559
ABC Trucking, Inc.: West Operations	LNG	3	10	26,524	N/A	N/A	N/A	5.8	154,898	122,276	32,612	1.26	706	83.00%	49%	23%	21%	7%	590
ABC Trucking, Inc.: West Operations	CNG	5	15	16,020	N/A	N/A	N/A	5.9	94,666	89,552	5,114	2.71	655	82.00%	32%	32%	27%	9%	428
ABC Trucking, Inc.: West Operations	Electric	2b	2	9,547	N/A	N/A	N/A	2.6	24,879	22,877	2,002	0.50	357	65.00%	N/A	N/A	N/A	N/A	
ABC Trucking, Inc.: West Operations	Gasoline Hybrid	3	4	2,889	152	69	0	8.5	24,589	22,581	2,008	0.95	538	72.00%	35%	30%	26%	9%	233
<b>Total ABC Trucking, Inc.: West Operations</b>	<b>All</b>	<b>All</b>	<b>126</b>	<b>1,422,989</b>	<b>135,427</b>	<b>32,389</b>	<b>0</b>	<b>5.4</b>	<b>7,615,055</b>	<b>6,815,288</b>	<b>799,757</b>	<b>17.34</b>	<b>2,970</b>	<b>90.30%</b>	<b>75%</b>	<b>12%</b>	<b>9%</b>	<b>3%</b>	<b>473</b>
<b>ENTIRE PARTNER TOTALS</b>			<b>236</b>	<b>3,355,737</b>	<b>319,226</b>	<b>78,146</b>	<b>10,979</b>	<b>5.3</b>	<b>17,647,404</b>	<b>16,296,623</b>	<b>1,324,771</b>	<b>16.22</b>	<b>3,012</b>	<b>90.38%</b>	<b>80%</b>	<b>10%</b>	<b>8%</b>	<b>2%</b>	<b>568</b>

# Accessing Your Reports



- Year-to-Year Performance
- You will need a previous year's file for comparison, so keep all of your information in a directory that you can access
- Great for looking at performance trends

SmartWay Truck: Home

**SmartWay®** **Data Year 2017** OMB 2060-0663 Expiration Date 07/31/2017 (Revised 2014) **Truck** United States Version: 2.0.17a Released on: 01/12/2018

Please complete the following steps. Check boxes on the left indicate successful completion of each step. For more information, select the 'Help' button.

1. **Enter Partner Name** (Exactly as it should appear on the SmartWay website):  
ABC Trucking, Inc.
2. **Contact Information**
3. **Fleet Description(s)**
4. **Data Entry** (Double-click the fleet name or select and hit Enter):  
ABC Trucking, Inc.: East Operations - Complete (with Warnings)  
ABC Trucking, Inc.: West Operations - Complete (with Warnings)
5. **Give us Feedback** ? Optional survey to help us improve your SmartWay experience.
6. **Generate a (.xml) data file** ? To complete your submission, email the small (.xml) data file and your large (.xsm) tool file to EPA. If your email size limit cannot handle the tool file, send only the smaller data file.

**YOUR RESULTS**

[View Your Data Reports](#) [Review your Year-to-Year Performance](#) ?

[BACK](#) [SAVE](#) [HELP](#) [ZOOM IN](#) [PRINT SCREEN](#) [QUIT](#) [Screen Demo](#)

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# Year-to-Year Reports



- If you were in SmartWay in previous years, you can compare your data to see how you've changed over time.
- Also good for double-checking your inputs... a 200% change from one year to the next is a trouble sign.

SmartWay Truck Year-to-Year Comparison

**In order to run a comparison report, you must have a completed Truck Tool from the previous year.**  
You can compare the data in this tool to data in a tool from last year.

Select the "Load Data" button to import the data from the prior year's tool that you would like to compare into this Tool.

Next, choose the units in which you would like the fuel-related components of the report to be expressed.

Next, Choose whether you would like to see the comparison at the Partner (Company) level or the fleet level. If you choose the fleet level, select the fleet(s) from each list that you would like to compare. (Note that the report will combine all of the selected fleets from each list.)

Finally, select RUN REPORT to generate the report.

**1. Load Data from Prior Year:**  
Tool year: 2015

**2. Select Units for Displaying Fuel-Related Information:**  
? Display Fuel in: Diesel Gallon Equivalents

**3. Choose Comparison Level:**  
 Partner-Level  
 Fleet-Level

Select a fleet from each of the lists below that you would like to compare. You may choose multiple fleets from each list, and the comparison report will combine all of the selected fleets from each list.

Fleets for this tool:

Fleets for previous year's tool:

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# Year-to-Year Reports



Fleet Name(s)			Webinar Example Truck Tool	Webinar Example Truck Tool
Working Contact:			Ex Ample	Ex Ample
Phone		X	888-881-2364 / 1336	888-555-7897
SCAC(s)			ABCD	ABCD
MCN			#1234567	#1234567
DOT			#123456	#123456
NSC		X	#123456	N/A
Fleet Type			For-Hire	For-Hire
Ranking Category			Flatbed	Flatbed
Body Types			Flatbed(100%)	Flatbed(100%)
MPG	-3.3%	-0.24	6.91	7.15
Miles Per Truck	3.9%	1,834	49,156	47,323
Average Payload (tons/truck)*	-10.8%	-1.8	14.7	16.5
Truck Cargo Volume (cu ft/truck)*	-0.2%	-4	2,232	2,236
Average Used Cargo Volume %*	1.8%	1%	82%	81%
% Highway or Rural Driving*	0.0%	0%	85%	85%
% Urban Driving (Under 25 mph)*	0.0%	0%	7%	7%
% Urban Driving (25 mph to 50 mph)*	0.0%	0%	6%	6%
% Urban Driving (Over 50 mph)*	0.0%	0%	2%	2%
Average Idle Hours (per truck per year)	0.1%	1	778	777
Number of Trucks	-38.0%	-882	1,439	2,321
Class 2b		-	-	-
Class 3	-39.8%	-123	186	309
Class 4		-	-	-
Class 5	-43.4%	-33	43	76
Class 6		-	-	-
Class 7	-36.0%	-215	383	598
Class 8a	-51.7%	-30	28	58
Class 8b	-37.6%	-481	799	1,280
Total Annual Miles Driven	-35.6%	-39,099,825	70,735,722	109,835,547
Total Annual Revenue Miles	-35.8%	-23,558,368	42,204,861	65,763,229
Total Annual Empty Miles	-35.4%	-15,606,400	28,466,127	44,072,527
Fuel (Gallons or kWhr)	-33.4%	-5,130,490	10,231,090	15,361,580
Gallons of Diesel Used, incl. Reefer	-33.4%	-5,130,490	10,231,090	15,361,580

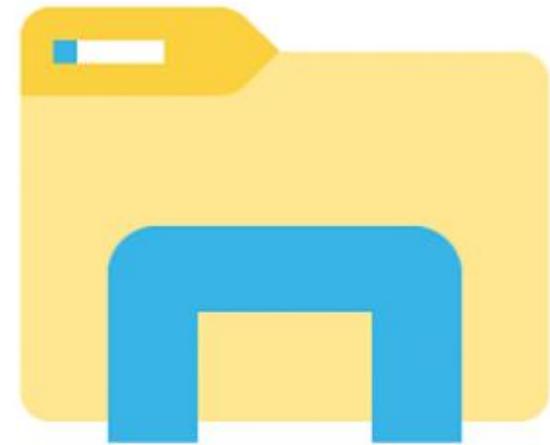
## The Tool is Only as Good as the Data You Enter

- Having systems and procedures to ensure complete and accurate data are captured, stored, retrieved and protected are essential to all aspects of your business
- SmartWay tools have validation limits for some data points, such as payload, empty miles relative to total miles, and others (Section 3.4, “Data Validation,” of the Truck Tool technical Documentation).
- You know your data better than anyone
- Check entries against company records and previous years’ tools and see if they make sense.

# Hints for Best Data Analysis



- Keep all of your files in a secure directory, with a subdirectory for each submission year.
- Save each year's SmartWay tools, user guides, and technical documents for quick reference.
- Save the public SmartWay carrier performance ranking spreadsheet each year.
- Make sure your company has a succession plan so you don't lose older data
- In the SmartWay tool-
  - Use the comment section of the tool to record notes
  - Accurately and completely fill out the data sources tab so you can quickly access the same (or better) data sources next year
  - Keep contact information up-to-date
- Track your progress in data collection year-to-year and seek to collect better data each year.
- Develop an "information funnel."
  - Develop standardized reports or file formats for people to send you data.
  - SmartWay has data sheets you can use as templates.



# **How Shippers use SmartWay data and what it means for you**

# How Do Shippers Use SmartWay Scores?



- Many Shippers publish Corporate Social Responsibility Reports...
  - They need to determine their emissions from many sources, and freight is one of these.
  - SmartWay provides a standardized way of calculating these emissions.
  - Without SmartWay, many shippers would be asking carriers for their information.
  - Shipper emissions show up on Shareholder reports, Social Responsibility Reports, Carbon Disclosure Reporting, Greenhouse Gas Protocol reporting, etc.
- Relating to SmartWay Carriers, some Shippers:
  - Require their carriers to be SmartWay.
  - Require their carriers to be certain range levels within SmartWay (1 or 2).
  - Give preferential fuel surcharge rates to SmartWay carriers or high performing SmartWay carriers.
  - Give bonus points in bid proposals and carrier selection criteria.
  - Request carriers submit their SmartWay registration document with a bid.



# What does a Shipper Tool Look Like?



- Shippers are able to manually add SmartWay carriers to their list, or upload a data file containing their SmartWay carriers to their tool.
- Either way, it requires the ability to match their information about the carrier with what the carrier has given to SmartWay.

SmartWay Shipper Tool: BStar Shipping - Retail

Navigation: Awards/Data Entry Selection | **Input Carriers** | Activity Data | % SmartWay | Data Display | Shipper Strategies

Sub-navigation: Instructions | Match My Carriers | Outside Data Import | Export Carriers | **Manual Input SmartWay Carriers** | Manual Input Non-SmartWay Carriers | Optional Carrier Differentiation

**Filter**

Carrier Name:

Address1:

City:

State:

ZIP:

Carrier Mode:  Ranking Category:  SCAC:  MCN:  DOT:

Buttons: Apply Filter, Remove Filter

**Available SmartWay Carriers: 3,337**

Carrier Name	Carrier Mode	Ranking Category	SCAC	MCN	DOT	Address >>>
AEP River Operations: Captive	Barge					16150 Main Circle Drive
AEP River Operations: Commercial	Barge					16150 Main Circle Drive
Foss Maritime: Foss Atlantic	Barge					1151 Fairview Ave. N
Ingram Barge Company	Barge					4400 Harding Pike
Robin International Transport	Barge					P.O. Box 571
3 Rivers Logistics, Inc	Logistics		TVQI	MC376181	DOT2225931	60 Doughboy Road
A & Z Trucking, Inc.	Logistics		AZTD	MC510449		115 Corporate Drive

Buttons: Add Selected Carriers to List Below

Press the CTRL button to select multiple items

**Selected SmartWay Carriers: 4**

Carrier Name	Carrier Mode	Ranking Category	SCAC	MCN	DOT
Agmark Logistics, LLC	Logistics		AKFO	MC684924	DOT2244817
Corporate Courier Inc	Truck	Package	CCRN	MC359012	DOT806892
Night Train Trucking, Inc	Truck	Refrigerated	NTTK	MC361864	DOT813137
Oak Harbor Freight Lines	Truck	LTL/Dry Van	OAKH		DOT0008314

Buttons: Delete Selected Carriers

Navigation: BACK | NEXT | ZOOM III | PRINT SCREEN | SAVE | HOME | ADD COMMENTS | HELP | Screen Demo

# What does a Shipper Tool Look Like?



- Shippers can see and track carrier performance.
- Note: A non-SmartWay carrier will always have a worse emission factor than a SmartWay partner.
- The more freight a shipper moves with a cleaner carrier, the lower its overall emissions will be...making the shipper happier.

SmartWay Shipper Tool: BStar Shipping - Retail

Awards/Data Entry Selection    Input Carriers    Activity Data    % SmartWay    **Data Display**    Shipper Strategies

Emissions Summary    **Carrier Performance**    Carrier Performance (Ranking Category Detail)

This display allows you to look at your company's emissions-related performance by mode and optional tags. Use the drop-down boxes provided to filter your results. You can display carrier-specific emission factors by choosing the appropriate option from the Display Type drop-down. In addition, if you selected Emissions Footprint and completed the Activity Data screen, you can also display mass emissions in tons per year, as well as the associated category ranking (for non-rail/barge/air carriers). (If you selected % SmartWay Only, this mass emissions and category ranking options are not available.) In viewing your results, use the icon to the left of each mode name to hide/reveal details for that particular mode.

Display Results For: Emission Factors    Inbound / Outbound: All    Domestic / International: All    Business Unit: All    ID Code: All    Internal Shipper Segment 1: All    Internal Shipper Segment 2: All

Selected Carriers	Ranking Category	CO2		NOx		PM10		PM2.5	
		g/mile	g/ton-mile	g/mile	g/ton-mile	g/mile	g/ton-mile	g/mile	g/ton-mile
<b>Logistics Carriers (2)</b>									
+ Multi-modal Carriers (1)									
- Truck Carriers (5)									
Corporate Courier Inc	Package	900	383	3.05	1.500	0.137	0.0810	0.137	0.0810
Night Train Trucking, Inc	Refrigerated	1,840	88	8.40	0.425	0.185	0.0093	0.185	0.0093
Night Train Trucking, Inc	Refrigerated	1,840	88	8.40	0.425	0.185	0.0093	0.185	0.0093
non-SmartWay Truck Carr		2,437	484	29.24	3.330	1.242	0.1680	1.205	0.1630
Oak Harbor Freight Lines	LTL/Dry Van	1,750	166	5.00	0.460	0.220	0.0242	0.220	0.0242
<b>Composite Weighted Average</b>		<b>1,789</b>	<b>231</b>	<b>8.23</b>	<b>1.189</b>	<b>0.344</b>	<b>0.0944</b>	<b>0.343</b>	<b>0.0938</b>

BACK    NEXT    ZOOM IN    PRINT SCREEN    HOME    HELP    Screen Demo

# Shipper Answers Cheat Sheet



- SmartWay website: <https://www.epa.gov/smartway>
- Location of SmartWay performance ranking spreadsheet: (Your scores are here) <https://www.epa.gov/smartway/smartway-carrier-performance-ranking>
- Location of SmartWay Partner List: If the Shipper is on the list they can call their SmartWay Partner Account Manager (PAM):
  - <https://www.epa.gov/smartway/smartway-partner-list>
- SmartWay hotline (If they don't know their PAM) [734-214-4767](tel:734-214-4767)
- SmartWay Email (If they don't know their PAM and don't like to call) [smartway\\_transport@epa.gov](mailto:smartway_transport@epa.gov)
- This presentation will be uploaded to: <https://www.epa.gov/smartway/smartway-webinars-events>

# Using SmartWay Data to Improve



- The SmartWay website has information on how to improve fuel economy
- <https://www.epa.gov/smartway/smartway-truck-carrier-partner-resources>

## SmartWay Truck Carrier Partner Resources

This page has everything you need to get the most out of being a registered SmartWay Truck Carrier.



Bookmark this page for your convenience.

### What would you like to do?

You may need a PDF reader to view some of the files on this page. See EPA's [About PDF page](#) to learn more.

Measure Your Performance

View Carrier Ranking Data

Get Training

Improve Your Performance

Highlight Your Achievements

Optimizing fuel economy, driver performance, and operational efficiency is key to improving the performance of your fleets as a SmartWay Truck Carrier. Read these technical bulletins to discover the best opportunities for your company.

### Truck Tool Due Dates

- Group 1: March 4, 2020
- Group 2: April 8, 2020
- Group 3: May 6, 2020

# Using SmartWay Data to Improve



 <https://www.epa.gov/smartway/smartway-truck-carrier-partner-resources>

• Group 3: May 6, 2020

## Strategies for Efficiency

- [Overview of Carrier Strategies \(PDF\)](#)  
(3 pp, 182 K, August 2019, EPA-420-F-19-049)
- Fact sheets about each strategy:
  - [Automatic Tire Inflation Systems \(PDF\)](#) (2 pp, 289 K, August 2019, EPA-420-F-19-018)
  - [Driver Training \(PDF\)](#) (2 pp, 197 K, August 2019, EPA-420-F-19-019)
  - [Hybrid Powertrain Technology \(PDF\)](#) (2 pp, 172 K, August 2019, EPA-420-F-19-020)
  - [Idle Reduction \(PDF\)](#) (2 pp, 206 K, August 2019, EPA-420-F-19-021)
  - [Improved Aerodynamics \(PDF\)](#) (2 pp, 179 K, August 2019, EPA-420-F-19-022)
  - [Improved Freight Logistics \(PDF\)](#) (2 pp, 183 K, August 2019, EPA-420-F-19-023)
  - [Intermodal Shipping \(PDF\)](#) (2 pp, 193 K, August 2019, EPA-420-F-19-024)
  - [Longer Combination Vehicles \(PDF\)](#) (2 pp, 179 K, August 2019, EPA-420-F-19-025)
  - [Low Rolling Resistance Tires \(PDF\)](#) (2 pp, 140 K, August 2019, EPA-420-F-19-026)
  - [Low Viscosity Lubricants \(PDF\)](#) (2 pp, 175 K, August 2019, EPA-420-F-19-027)
  - [Maintaining Proper Tire Inflation Pressure \(PDF\)](#) (2 pp, 181 K, August 2019, EPA-420-F-19-028)
  - [Reducing Highway Speed \(PDF\)](#) (2 pp, 153 K, August 2019, EPA-420-F-19-029)
  - [Weight Reduction \(PDF\)](#) (2 pp, 175 K, August 2019, EPA-420-F-19-030)

# Using SmartWay Data to Improve



- High NOx and PM emissions can indicate:
  - Aging trucks – replacing them with newer trucks can help.
  - Aggressive driving – driver training (see the Strategies for Efficiency list) and feedback to drivers on their driving based on telematic data.
  - Inadequate maintenance – make sure emission control systems are addressed in regular maintenance along with drivability issues and basic upkeep.
- High CO2 emissions can indicate:
  - Excessive truck idling -- (see the Strategies for Efficiency list)
  - Excessive wind resistance, or tire rolling resistance (see the Strategies for Efficiency list).
  - Excessive speed – time is money but so is fuel (see the Strategies for Efficiency list)
- Low CO2 gram per mile but high CO2 gram per ton-mile emissions can indicate:
  - Excessive empty backhauls – can be addressed with improved scheduling, often addressed through software.
  - Light payloads – can be a feature of a carrier’s business model, but can be addressed through improved logistics (see the Strategies for Efficiency list), also often addressed through software.

# Using SmartWay Data to Improve



- An additional resource:
  - EDF has partnered with many companies and assembled a set of best practices for goods movement: <http://business.edf.org/files/2014/07/EDF-Green-Freight-Handbook.pdf>
  - The Green Freight Handbook addresses such issues as establishing metrics, identifying opportunities, and implementing strategies.

## Please Remember

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- Pay attention to SmartWay emails.
- Make sure SmartWay emails aren't going into your spam folder.
- Have a current SmartWay contact and insure continuity of operations if you leave your position.
- Have a backup person in your organization.
- Save your SmartWay work in a single folder.
- Use SmartWay for benchmarking and Improvement.
- If you have a question- don't hesitate: ask your Partner Account Manager.
- Know who your Partner Account Manager is!



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**SmartWay Hotline**

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