

SmartWay Transport Partnership

Air Carrier Tool Webinar Presentation

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US Environmental Protection Agency

June 15, 2017



Covered Today

- **Background**
- **What's new this year**
- **Demonstration**
- **Key points to remember when filling out your tool**

Background

- SmartWay was initiated as a voluntary market based program with members of the U.S. Freight industry
 - Improve the reputation of the freight industry
 - Improve the efficiency and competitiveness of the freight industry
 - Reduce the release of harmful emissions
- Launched in 2004
- Currently over 2500 Carriers, more than 550 logistics providers, and over 250 Shippers are members of SmartWay
- Shippers need carrier data to report their carbon footprint
 - They use this in Corporate sustainability reports, stockholder reports, media and customer relations, multinationals face global regulations and requirements
 - For this reason, more and more shippers are asking for SmartWay data

Why Participate?

Fuel Use = \$\$\$ = CO₂

Many SmartWay Shippers prefer or require SmartWay carriers

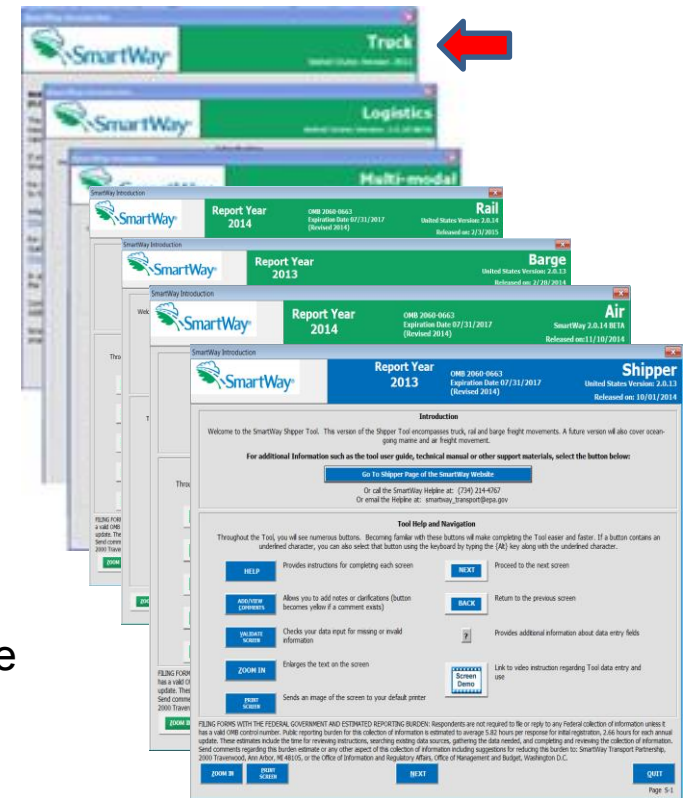
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SmartWay is an Integrated System



- Carrier Data Collection Tools
 - Truck, Logistics, Barge, Rail, Air, Multimodal Suite
- Shipper Tool
 - Calculates carrier emission footprints for Shippers
- SmartWay “Process”
 - Data collection, processing, QA/QC, benchmarking
 - Produces 6 emission factors for public use



SmartWay is an Integrated System



SmartWay Database

- Stores and manages all SmartWay data
- Allows industry benchmarking

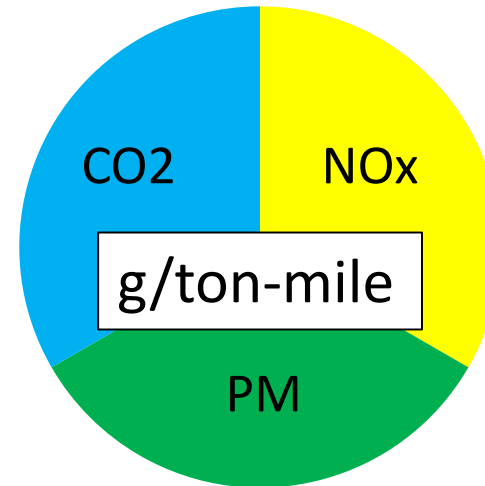
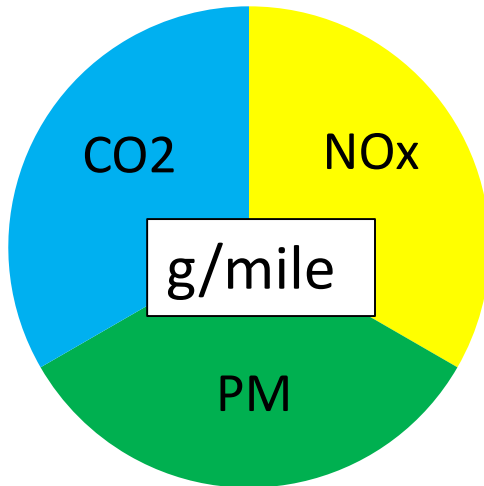
SmartWay Website

- Contains downloadable versions of all tools, user guides, technical documentation, webinars, program descriptions. <http://www3.epa.gov/smartway/>

The screenshot shows the 'SmartWay CRM Home' interface. At the top, there is a navigation bar with links for Home, Partners, Prospects, Affiliates, Licenses, Resources, Reports, and Logout. Below this, the 'Common Functions' section includes links for My Partners, My Prospects, My Affiliates, My Licenses, My Tools, and Rail Carrier Data for 2010. There is also a search bar and a 'Welcome Matt Payne' message with a date of November 16, 2010. The 'Restricted Functions' section lists various administrative tasks like updating email stations and verifying data integrity. The 'Report Shortcuts' section provides quick access to numerous reports, including emissions, status, and performance reports.

The screenshot shows the EPA SmartWay website homepage. The header includes the EPA logo and navigation links for 'LEARN THE ISSUES', 'SCIENCE & TECHNOLOGY', 'LAWS & REGULATIONS', and 'ABOUT EPA'. The main content area features a large banner for 'SmartWay' with a truck image and the text 'Discover how you can finance cleaner trucks.' Below the banner, there are sections for 'Key Topics' (Affiliates, Facts/Figures, Multi-modal Carriers, Security, Emission Analysis, etc.), 'Join SmartWay' (a public-private collaboration), and 'What Can SmartWay Do for You?' (listing categories like Freight Shippers, Truck Carriers, Rail Carriers, etc.). The right sidebar contains 'Top Three Questions', 'Recent SmartWay Updates', and 'Spotlight on 2011 SmartWay Champions'. The footer includes social media icons and contact information.

SmartWay's Current 6 Emission Metrics



- **Pollutants**

- CO2: A surrogate for fuel efficiency and energy consumption
- Oxides of Nitrogen: A precursor of smog, a concern in local areas
- Particulate Matter: Known for creating black soot, a concern for local areas

- **Metrics**

- Grams per Mile: Amount of pollution emitted for every mile travelled
- Grams per Ton-Mile: Amount of pollution emitted for every ton that travels one mile, usually the best metric for freight efficiency

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Updated Emission Factors

- SmartWay tools are regularly updated with the latest data and modeling methods to provide the best available information and ensure the best consistency with real-world operations
- NO_x and PM EFs modeled using AEDT 1c, the latest version of FAA's emissions and noise model for aircraft
 - Based on the most recent test data
 - NO_x Factors are smaller than before while PM factors are larger for many aircraft
- Slight increase in CO₂ EF for Jet Fuel
 - From 3,131 g CO₂/kg fuel to 3,155
 - A small change with a minor effect on overall emissions numbers
 - In line with latest EPA data and international protocols

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SmartWay Air Tool

- CO2 emissions based on fuel consumed
- NOx and PM based on Aircraft-specific LTO activity from FAA's AEDT model
- Now for the Demo ...

Air Tool Demonstration

SmartWay Welcome ☰



**Data Year
2016**

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

Air

United States Version: 2.0.16a
Released on: 04/17/2017


Welcome to the 2017 SmartWay AIR Tool

Since 2004, companies have been participating in the SmartWay Program to reduce their fuel usage, reduce emissions, and save money.

Developed in cooperation with the freight transportation industry, the SmartWay Transport Partnership helps you to improve your efficiency by tracking and benchmarking performance.

FILING FORMS WITH THE FEDERAL GOVERNMENT AND ESTIMATED REPORTING BURDEN:
Respondents are not required to file or reply to any Federal collection of information unless it has a valid OMB control number. Public reporting burden for this collection of information is estimated to average 5.82 hours per response for initial registration, 2.66 hours for each annual update. These estimates include the time for reviewing instructions, searching existing data sources, gathering the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information including suggestions for reducing this burden to: SmartWay Transport Partnership, 2000 Traverwood, Ann Arbor, MI 48105, or the Office of Information and Regulatory Affairs, Office of Management and Budget, Washington D.C.

ZOOM IN **PRINT SCREEN** **QUIT**

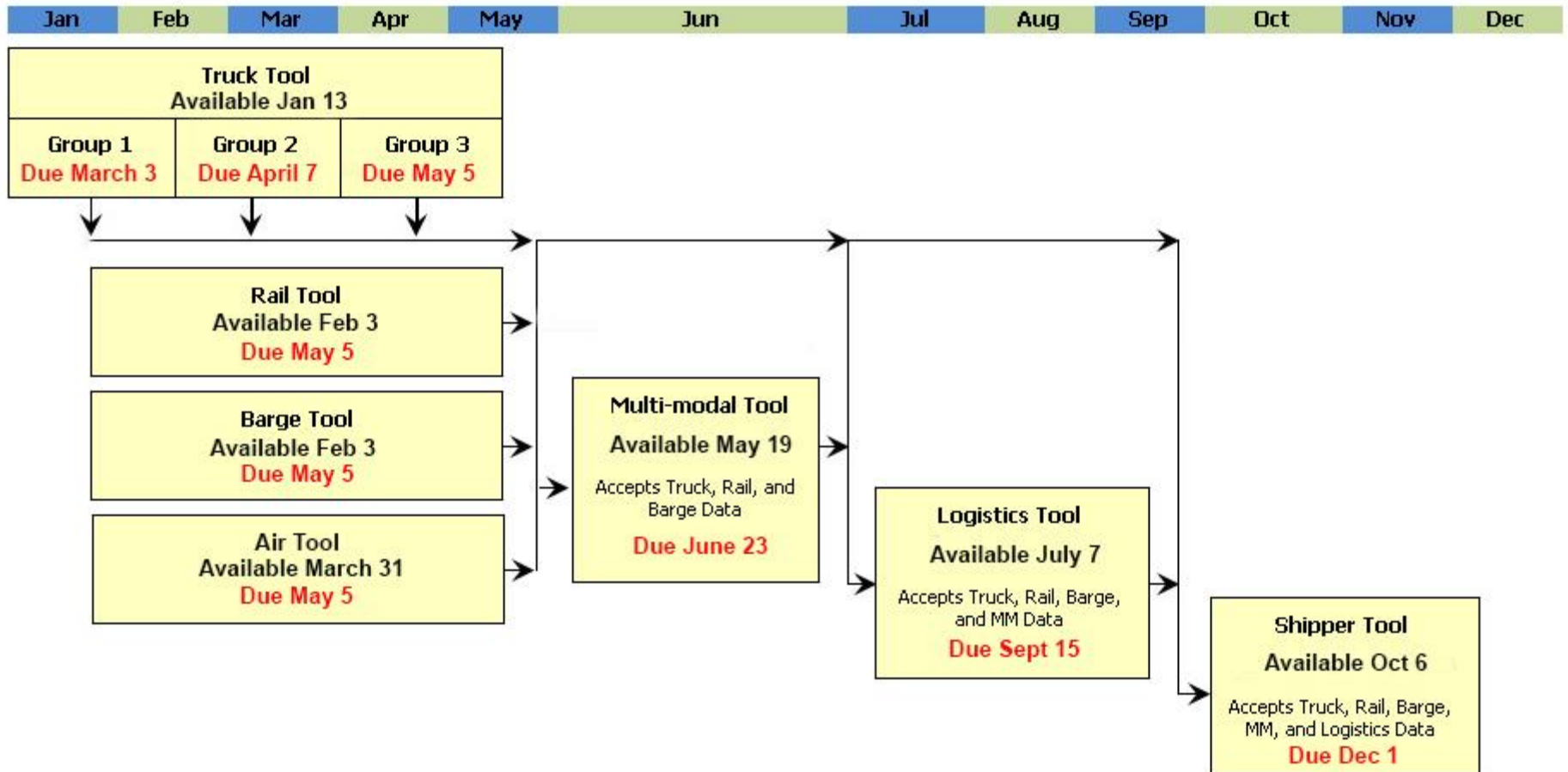
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2017 SmartWay Schedule

(Tool Information Flow, Availability and Due Dates)



Helpful Hints

- SmartWay communicates valuable information to partners through email
 - Make sure it isn't going into your spam folder
- SmartWay is a partnership – we rely on our SmartWay contacts
 - Have a backup contact to insure continuity for temporary absences
 - Have a succession plan so someone is ready if your job changes
- Keeping all SmartWay tools in the same folder makes year over year comparisons easy
- SmartWay offers business intelligence – it's there for you to use for company benchmarking and improvement
- We're here for you - If you have a question, don't hesitate to ask your Partner Account Manager.
- If you don't know who your Partner Account Manager is, call the Help Line.

SmartWay: You are part of a Global Movement



- *SmartWay is the Gold standard for freight carbon tools. -MIT*

For more information:

Web: <https://www.epa.gov/smartway>

Help Line: 734-214-4767

Email: smartway_transport@epa.gov

Email: herzog.erik@epa.gov

Phone: 734-214-4487