FMCSA Data Quality Improvement Program

How to Improve Accuracy

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How Does Accuracy Impact Safety?
Learning Objectives

• Explore how you can improve safety by matching records to a carrier registered with FMCSA

• Identify which tools improve the accuracy of your data
Agenda

Throughout the session we will:

• Discuss the importance of data accuracy
• Explore carrier types and carrier search
• Examine the role of census numbers and need for daily census updates
• Identify resources to improve inspection record accuracy
Why Is Accuracy Important?

• Ensures that motor carriers are rated appropriately for safety

• Crashes, as well as inspections with violations, can alert FMCSA to carriers that may need intervention for unsafe driving practices

• Clean inspections can help a motor carrier’s safety profile

• Keeps the State’s database clean and their SSDQ measures in good standing
SSDQ Inspection & Crash Accuracy Measures

• Both Accuracy measures are a calculation of the records that match to a carrier in the Motor Carrier Management Information System (MCMIS)

• Evaluation Period: 12 months of data with a 3-month lag
  • For February 2021 results, records uploaded from December 2019 through November 2020 are included

• Records Used: Records for large trucks and buses registered as interstate or intrastate carrying hazardous materials (HM)

• Rating Ranges:
  GOOD: 95% or higher
  FAIR: 85% – 94%
  POOR: 84% or lower (not rated if there are less than 15 records evaluated)
SSDQ Inspection & Crash Accuracy Measures

• Accurate records allow FMCSA safety systems to assess a carrier’s safety record
• To be most successful, FMCSA safety programs need your help ensuring data are accurate and complete!
Know the Carrier Types: Inspections

- Interstate
- Intrastate
# Know the Carrier Types: Crashes

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interstate</td>
<td></td>
</tr>
<tr>
<td>Intrastate</td>
<td></td>
</tr>
<tr>
<td>Not in Commerce – Other Trucks</td>
<td>• Personal rental vehicles over 10,000 lbs. operated by a private individual</td>
</tr>
<tr>
<td>Not in Commerce – Government</td>
<td>• Any vehicle over 10,000 lbs. operated by local, State, or Federal government that does not have a U.S. DOT Number</td>
</tr>
</tbody>
</table>
| Other Operation / Not Specified               | • Used when **no** carrier information is provided and the State is unable to obtain carrier information from other sources  
  • Example: Hit and Run
Interstate

- Not defined by the trip’s origin and destination
- Must be registered with FMCSA as an Interstate carrier
- Goes through carrier search – the results affect the SSDQ measure
- What do they look like in SAFETynet?
• Operates entirely within their own State

• Might or might not be registered with FMCSA as an Intrastate carrier

• Intrastate HM search results affect the SSDQ measure

• What do they look like in SAFETYNET?
Not in Commerce – Other Trucks

- Rental vehicles (U-Haul, Penske, etc.) over 10,000 lbs. for personal use
- Does not go through carrier search
- Will affect the SSDQ measure if labeled incorrectly
- Three cases when a rental vehicle is involved
Not in Commerce – Government

- Used for any government vehicle over 10,000 lbs. without a DOT Number
- Does not go through carrier search
- Will affect the SSDQ measure if labeled incorrectly
Other Operation – Not Specified

- Used for vehicles over 10,000 lbs. and only in situations where no carrier information is obtained
- Does not go through carrier search
- Will affect the SSDQ measure if labeled incorrectly
How to Identify Not-in-Commerce Carriers

• Potential government entities might include:
  • State
  • Department
  • School
  • Transit, etc.

• Other trucks (leasing companies)
  • U-HAUL
  • Penske, etc.

• If the carrier name is the same as the driver, this could be a private individual
Carrier Review Type #1

<table>
<thead>
<tr>
<th>Carrier Identification</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Carrier Type</strong></td>
<td></td>
</tr>
<tr>
<td><strong>USDOT Number</strong></td>
<td>28406</td>
</tr>
<tr>
<td><strong>State Census Number</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Issuing State</strong></td>
<td></td>
</tr>
<tr>
<td><strong>MC/MX Number</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Carrier Name</strong></td>
<td>CR ENGLAND INC</td>
</tr>
<tr>
<td><strong>Street Address</strong></td>
<td>321 TECH DRIVE</td>
</tr>
<tr>
<td><strong>Colonia</strong></td>
<td></td>
</tr>
<tr>
<td><strong>City Name</strong></td>
<td>BURNS HARBOR</td>
</tr>
<tr>
<td><strong>State</strong></td>
<td>IN</td>
</tr>
<tr>
<td><strong>Zip Code</strong></td>
<td>46304</td>
</tr>
</tbody>
</table>
Carrier Review Type #2

Carrier Identification

Carrier Type

USDOT Number

State Census Number

ISSuing State

MC/MX Number

Carrier Name: GEORGETOWN UNIVERSITY FACILITIES GARAGE

Street Address: 37TH & OST NW B-24 HARBIN HALL

Colonia

City Name: WASHINGTON

State: DC  Zip Code: 20057
Carrier Review Type #3

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>Carrier Type</td>
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<tr>
<td>USDOT Number</td>
</tr>
<tr>
<td>State Census Number</td>
</tr>
<tr>
<td>Issuing State</td>
</tr>
<tr>
<td>MC/MX Number</td>
</tr>
<tr>
<td>Search...</td>
</tr>
<tr>
<td>Copy Search Data</td>
</tr>
<tr>
<td>Carrier Name</td>
</tr>
<tr>
<td>Street Address</td>
</tr>
<tr>
<td>Colonia</td>
</tr>
<tr>
<td>City Name</td>
</tr>
<tr>
<td>State</td>
</tr>
<tr>
<td>Zip Code</td>
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</table>
Handout Exercise #1 – Vote if the Carrier Type is correct or not.

Exercise Objective: Review the details of each record and use the Vote option based on if you believe the assigned Carrier Type is correct or incorrect.
Exercise #1–1 Use the vote option for correct/incorrect Carrier Type

Carrier Identification
- Carrier Type: Other Operation / not specified
- USDOT Number: [ ]
- State Census Number: [ ]
- Issuing State: [ ]
- MC/MX Number: [ ]
- Responsible Party: HI LOW TRANSPORTATION
- Street Address: 3409 E 240 RD
- Colonia: [ ]
- City Name: OKLAHOMA CITY
- State: OK
- Zip Code: 73135
Exercise #1–2 Use the vote option for correct/incorrect Carrier Type

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<tr>
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</tr>
<tr>
<td>Issuing State</td>
</tr>
<tr>
<td>MC/NX Number</td>
</tr>
<tr>
<td>Search...</td>
</tr>
<tr>
<td>Copy Search Data</td>
</tr>
<tr>
<td>Carrier Name</td>
</tr>
<tr>
<td>Street Address</td>
</tr>
<tr>
<td>Colonia</td>
</tr>
<tr>
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Exercise #1–3 Use the vote option for correct/incorrect Carrier Type
Exercise #1–4 Use the vote option for correct/incorrect Carrier Type

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How Carrier Type Affects Carrier Search Results

CRASH RECORDS

SAFETYNET

INTERSTATE

INTRASTATE (HM)

INTRASTATE (NON-HM)

CARRIER SEARCH

MATCH

NON-MATCH

INTRASTATE

NON-MOTOR CARRIER

NOT IN COMMERCE
(Other Trucks, Government, Other Operation / Not Specified)
Ideal World

Carrier type uploaded as:
- Interstate
- Intrastate
- Not in Commerce – Other Trucks
- Not in Commerce - Government
- Other Operation / not specified

Carrier type really is:
- Interstate
- Intrastate
- Not in Commerce – Other Trucks
- Not in Commerce - Government
- Other Operation / not specified
What May Happen...

Carrier type uploaded as:

- Interstate
- Intrastate
- Not in Commerce – Other Trucks
- Not in Commerce – Government
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Carrier type really is:

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Carrier type really is:
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- Other Operation / not specified
Ensuring the Correct Carrier Type Is Chosen

- Keep up with the census updates
- Use carrier search
- Understand the matching results
- State census numbers
- Use the SSDQ non-match reports
Census Updates

- Process census updates daily to keep SAFETYNET current
- Updates do take some time, so we recommend doing so during lunch or after hours

Why Is this Important?
- Regular census updates let you work with the most up-to-date carrier information
Census Updates

Demo: Process a Census Update
SAFETYNET’s Carrier Search Process

• Individual Carrier Search
  • Recommended for crash searches to reduce non-matches and identify correct carrier types
    
    **Pros:** Provides opportunity to catch more errors
    **Cons:** Can be time consuming and labor intensive

• Batch Carrier Search
  • Due to volume, usually recommended for inspection carrier searches
    
    **Pros:** Efficient and quick way to run the process
    **Cons:** Missed opportunities to identify errors and make corrections
Carrier Search Results

• When carrier search is run, we see these results:
  • Matches
    • Only one definite match was found in the carrier census
  • Potential matches
    • More than one potential match was found in the census
  • Non-matches
    • There were no matches found in the census

• Potentials and non-matches are listed in the A&I Non-Match Report
Individual Carrier Search – Finding a Match

What to do when SAFETYNET finds a match

Use crash record: IN0014065213
Individual Carrier Search – Finding a Potential Match

What to do when SAFETYNET finds a potential match

Use crash record: IN0011156849
Individual Carrier Search – Non-Match

What to do when SAFETYNET can’t find a match

Use crash record: IN0012162712

No records were found.

Enter additional information and process the search again. If detailed information was already entered, this carrier may be processed as 'New'.

Do you wish to process a New Carrier?

Yes No
Batch Carrier Search – Running a Search

How to run a carrier search on multiple records

![Batch Carrier Search](image-url)
Batch Carrier Search Results

Understanding the search results

![Screen capture of SAFETYNET database search results]

**Inspection Report Numbers**:
- N001100244 (02/14/2020)
- N001100246 (02/14/2020)
- N001100249 (02/14/2020)
- N001100242 (02/14/2020)

**CFL Numbers**:
- 0014170248
- 0014170249
- 0014170250
- 0014170251
- 0014170252

**Company Names**:
- Interstate F & P Trucking Service Inc
- Not in Commerce
- Individual
- Not in Commerce
- Not in Commerce
- Independent Contractor

**Crash Details**:
- Number of Definite Matches: 2
- Number of Potential Matches: 3
- Number of Non-Matches: 1

**Date Range**:
- 10/10/2019 to 11/20/2019

Batch Carrier Search – Resolving the Results

How to resolve potential and non-match results in SAFETYNET
Handout Exercise #2– Choose the best Potential Match

Exercise Objectives:
• Review the potential match situations on the next two slides and vote for your choice of which one would be the best match on each slide
Exercise #2–1 Use the vote option to choose the best Match
Exercise #2–2 Use the vote option to choose the best Match
State Census Numbers

• Some States are allowed to issue a State-specific number for Intrastate Carriers
  • Only type of carrier you can add to SAFETynet’s local census
• Allows carriers to be monitored by the State
• Follow your State’s procedures
Non-Match Reports

Reports available on A&I

• Inspection and Crash SDAR Non-Matched Reports
A&I Non-Match Reports Demo

**Demo Objective:**
Become familiar with the SDAR Crash Non-Match Report

- Log into the DQ Website
  - https://ai.fmcsa.dot.gov/DataQuality/
- Go to your State’s Crash Accuracy Measure Page
- Click on the Non-Match Records link
- Review the report
- Repeat for the Inspection Non-Match Report
Exercise Objective:
Become familiar with the SDAR Crash Non-Match Report

• Find the following:
  1) Number of Possible Government Vehicles on your State’s SDAR Crash Non-match Report
  2) Number of Possible Lease Vehicles on your State’s SDAR Crash Non-match Report
Accuracy Tips

• Do not select DOT# ‘1’ when filling in DOT Numbers

• Do not send records with only MC Number—you must also include the DOT Number

• Whether you are running Batch or Individual searches, you must complete the Census Search!

• Be sure to carry out due diligence for carriers with multiple DOT Numbers
The SAFETYNET Manual is included in SAFETYNET.

Access the manual by clicking on the Help top menu item.

[Image of the Help menu with SAFETYNET Manual selected.]
Have Questions? Let Us know!

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Kevin Berry
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kevin.berry@dot.gov

Additional Resources:
Data Quality Website
http://ai.fmcsa.dot.gov/DataQuality

DataQs Website
http://dataqs.fmcsa.dot.gov/

Thank You!