

ITIC-IM

Intermodal Transportation and Inventory Cost Model

Highway-to-Rail Intermodal Tool

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AASHTO

**Subcommittee on Highway Transport
& Standing Committee on Rail Transportation**

ITIC-IM

- **Concept and Past Uses**
- **Model Features**
- **Illustration of Model**
- **Availability**

ITIC-IM

- **A Specific Tool for Assessing Potential Truck-To-Rail Intermodal Diversions**
- **Used in FRA's Positive Train Control Study**
- **For PTC, Assessed Potential Diversions from Truck-to-Rail Intermodal Through Improved Service Offerings.**
- **Tested Improvements in Rail Intermodal Speed and Reliability.**

ITIC-IM Features

- **Model offers a flexible tool for policy makers and planners**
- **Superb tool for corridor analysis**
- **New features include simple user interface and summary statistics for quick review**
- **Addition of database that includes distances to/from each U.S. county to nearest rail intermodal terminal.**

Simple User Interface and Sample Summary Results

Truck-to-Rail Intermodal Diversion Analysis*

The user must run the base case first. If a truck record choses rail in the base case, it is considered to be "mis-assigned" and is not included in the policy run of the scenario

**Truck-to-Rail Intermodal
Base Case**

In the Policy Case, the user can test for diversion by making changes to any of the parameters to reflect rail intermodal service improvements or truck service degradation.

**Truck-to-Rail Intermodal
Policy Case**

**RUNNING THIS MACRO RESETS THE ASSUMPTIONS VARIABLES
ON THE "ASSUMPTIONS" SHEET TO THEIR ORIGINAL VALUES**

**Reset
Defaults**

TRUCK-TO-RAIL INTERMODAL OUTPUT SUMMARY STATISTICS

	Base	Policy Case Results	
	Case	Truck	Diversion
	Truck	Moves	to Rail
Number of Records	107	101	6
Number of Shipments	1,381	1,210	171
Tons Shipped	20,939	18,126	2,813
Truck VMT	1,949,359	1,450,823	0
Intermodal Dray VMT	0	0	27,370
Rail Ton-Miles	0	0	8,480,718
Logistics Costs(\$)	3,574,181.07	2,954,219.28	599,957

Availability

- **Documentation and User's Manual available now on FRA's Web site;**
<http://www.fra.dot.gov/us/content/1543>
- **Offerings available on CD-ROM.**
 - 1. Model**
 - 2. Sample Data Set**
 - 3. Documentation**
 - 4. Combined Mileage file with highway miles and rail miles between counties, and miles from county centroids to nearest rail intermodal terminal.**
 - 5. Aggregated Commodity Attribute table**