



CMAA **GO TO 2040**

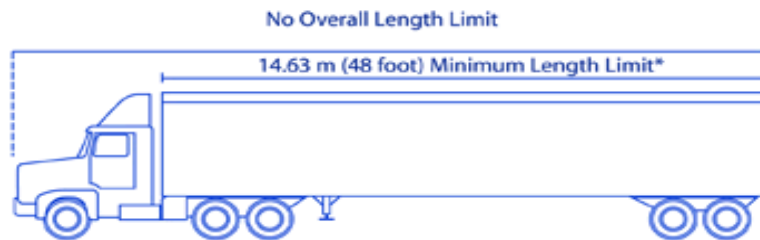
Regulatory Environment of Trucking
Presentation to CMAA's Freight Committee
January 25th, 2016

Scope of the memo

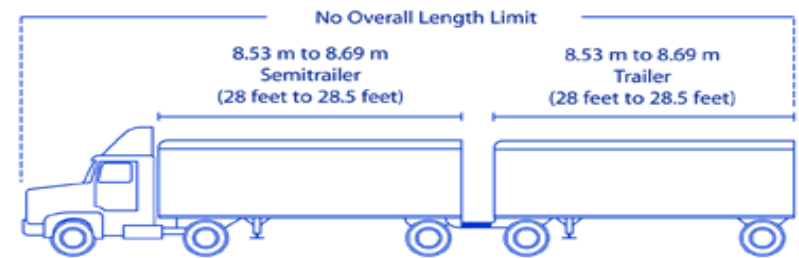


- Outline federal, state, and local truck routing and restriction systems
- Focuses on trucks with typical loads and dimensions, not OS/OW
- Analyze truck restrictions in the region

The National Network and Conventional Trucks



* or Grandfathered Semitrailer Length



Source: FHWA Federal Size Regulations for Commercial Motor Vehicles

Federal and state truck standards

	Federal truck standards	State Standards
Vehicle Length	No federal limit for the overall truck length on the National Network.	No overall truck length limit on state designated truck routes. Length limits may apply on other highways.
Trailer Length	States must allow semitrailers to be at least 48 feet in any truck tractor-semitrailer combination on the NN. For trucks with a tractor-semitrailer-trailer combination, states must allow at least 28 to 28.5 feet semitrailers or trailers on the NN.	Illinois and 25 other states allow 53 foot tractor-semitrailer combination.
Vehicle Width	The width limit is 8.5 feet.	No state can impose a width of more or less than this limit.
Vehicle Height	There is no federal height limit.	States set their own standards. In Illinois, the maximum allowable height on any highway is 13.5 feet.
Vehicle Weight	Maximum weight is 80,000 lbs. on the Interstate system.	States with higher weight limits established prior to 1991 may retain those limits for longer combination vehicles.
Vehicle Weight on Bridges	The federal government created a formula that sets the weight limits based on the number of axles and the space between axles to determine the weight allowed over bridges on the Interstate System.	All states must comply with the bridge formula, meaning a single axle can carry up to 20,000 pounds and two axles can carry up to 34,000 pounds.

Source: Adapted from the Federal Highway Administration's Commercial Vehicle Size and Weight Program and the Illinois Vehicle Code.

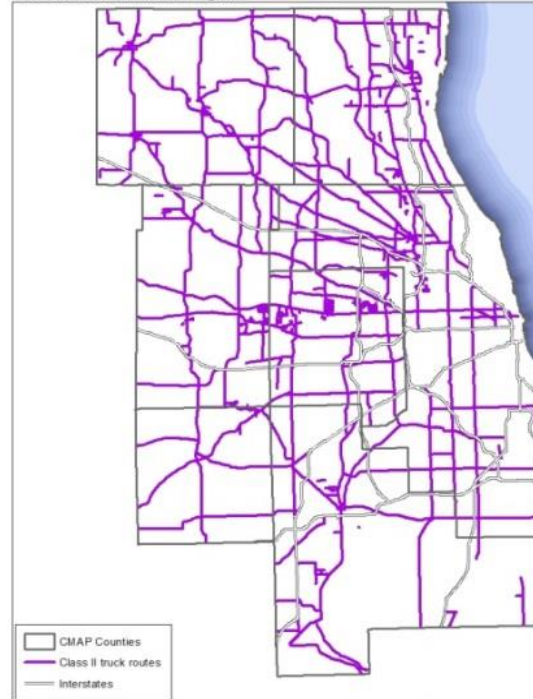
Class I, Class II, and Locally Preferred Truck Routes

Class I truck routes in the CMAP region



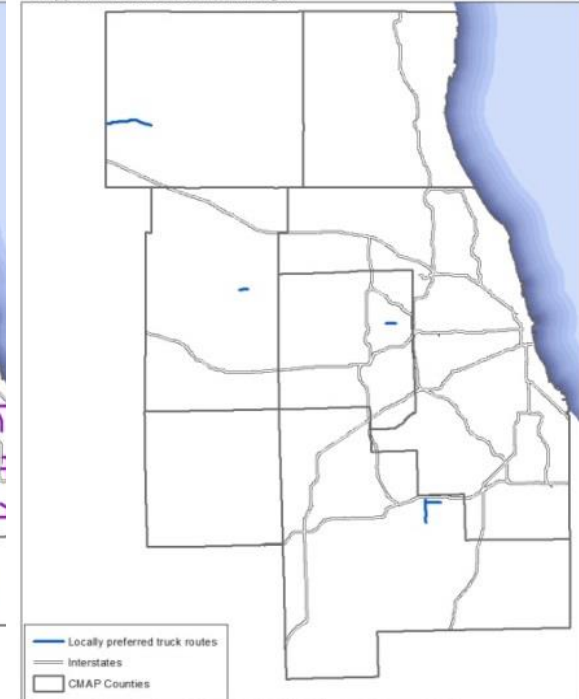
Source: Chicago Metropolitan Agency for Planning Analysis of Illinois Department of Transportation data

Class II truck routes in the CMAP region



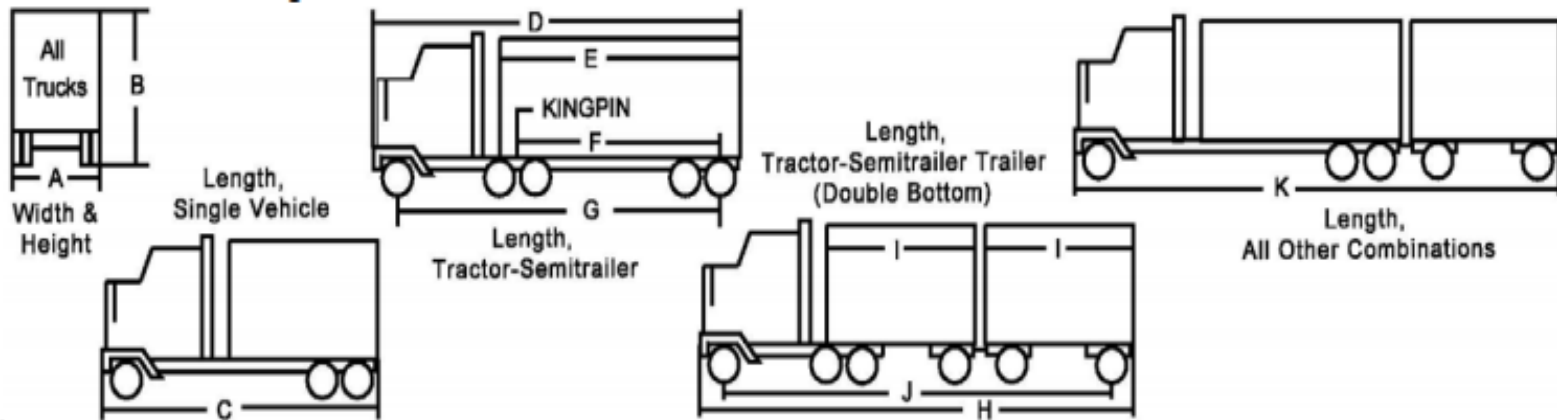
Source: Chicago Metropolitan Agency for Planning Analysis of Illinois Department of Transportation data

Locally preferred truck routes in the CMAP region



Source: Chicago Metropolitan Agency for Planning Analysis of Illinois Department of Transportation data

Maximum legal dimensions for trucks in Illinois



TYPE OF HIGHWAY OR STREET	MAXIMUM LEGAL DIMENSIONS											MAXIMUM WEIGHTS		
	A	B	C	D	E	F *4	G	H	I	J	K	Single Axle	Tandem Axle *2	Gross *3
Class I	8'-6"	13'-6"	42'	N.S.	53'	45'-6"	N.S.	N.S.	28'-6"	N.S.	N.S.	20,000	34,000	II
Class II	8'-6"	13'-6"	42'	N.S.	53'	45'-6"	N.S.	N.S.	28'-6"	65'	N.S.	20,000	34,000	II
Class III	8'-6"	13'-6"	42'	65' *1	53'	42'-6"	55' *1	60'	N.S.	N.S.	60'	20,000	34,000	II
Other State Highway	8'-6"	13'-6"	42'	65' *1	53'	42'-6"	55' *1	60'	N.S.	N.S.	60'	20,000	34,000	II
Local Roads & Streets	8'-6"	13'-6"	42'	55'	N.S.	N.S.	N.S.	60'	N.S.	N.S.	60'	20,000	34,000	II
Special Haul Vehicles on all Above Categories	8-6"	13'-6"	42'	N.S. *5	N.S.	N.S.	N.S.	N.S.	N.S.	N.S.	60'	20,000	34,000	See *6

Source: Illinois Department of Transportation, Legal Weights and Dimension

N.S. indicates legal dimension not specified.

Reasonable access for trucks by truck length

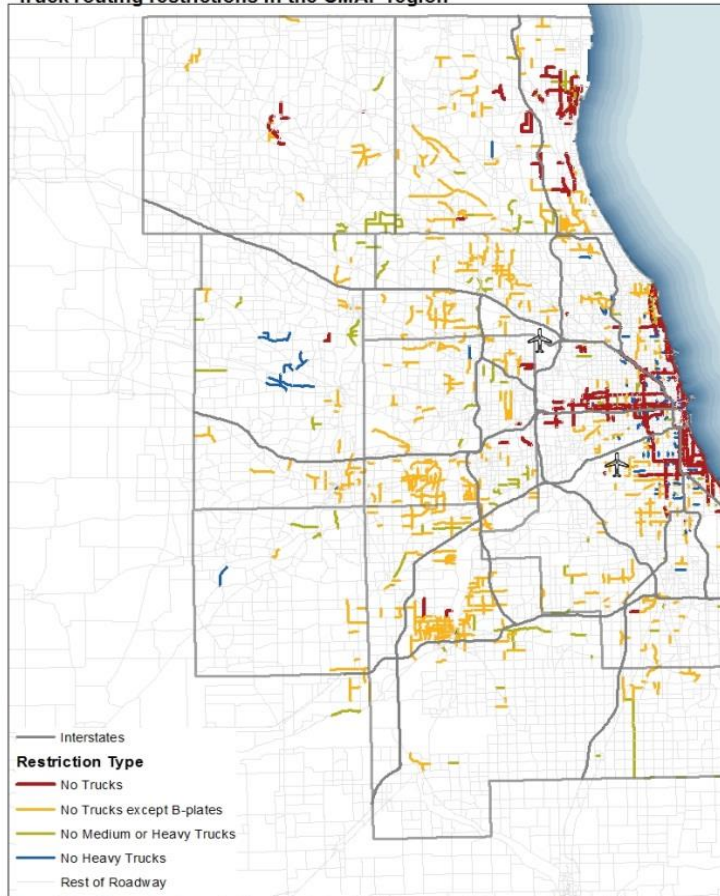
Access for a truck with an overall length of 65 feet		
	Loading and unloading freight	Food, fuel, repairs, and rest
From designated State highway*	5 miles on all municipal, county, and township roads	1 mile on municipal roads 5 miles on county and township roads
Access for a truck over 65 feet long		
	Loading and unloading freight	Food, fuel, repairs, and rest
From Class I	1 mile on all municipal, county, and township roads	
From Class I or Class II	5 miles onto any State designated truck route or locally designated highway	

*Includes Class I and state-jurisdiction Class II truck routes

Source: CMAP analysis of the Illinois Vehicle Code, Chapter 15

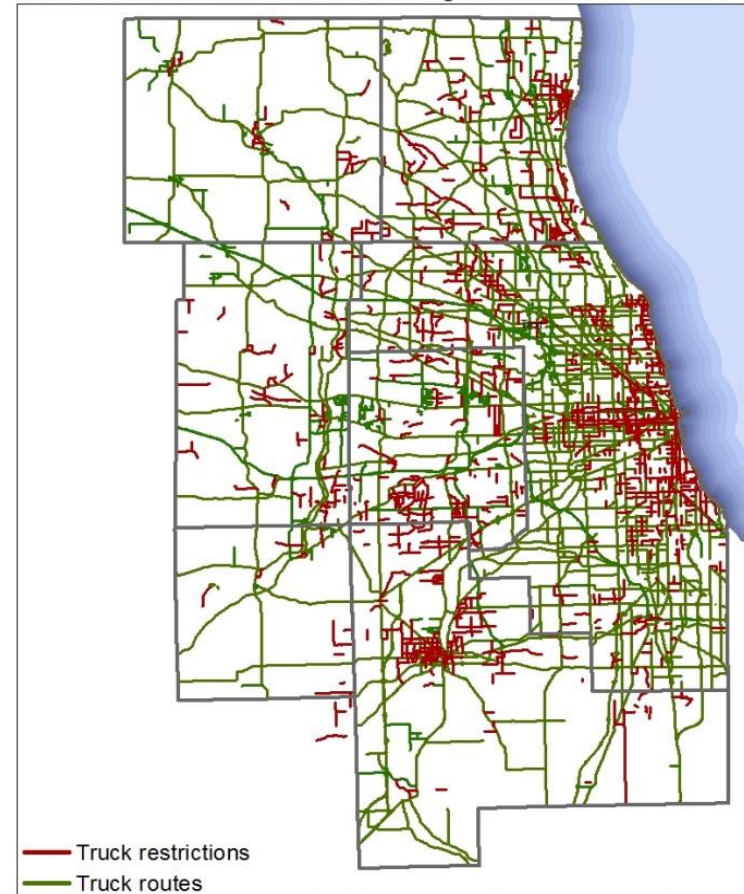
Truck restrictions

Truck routing restrictions in the CMAP region



Source: Chicago Metropolitan Agency for Planning Analysis of Illinois Department of Transportation data and Illinois municipal and county codes.

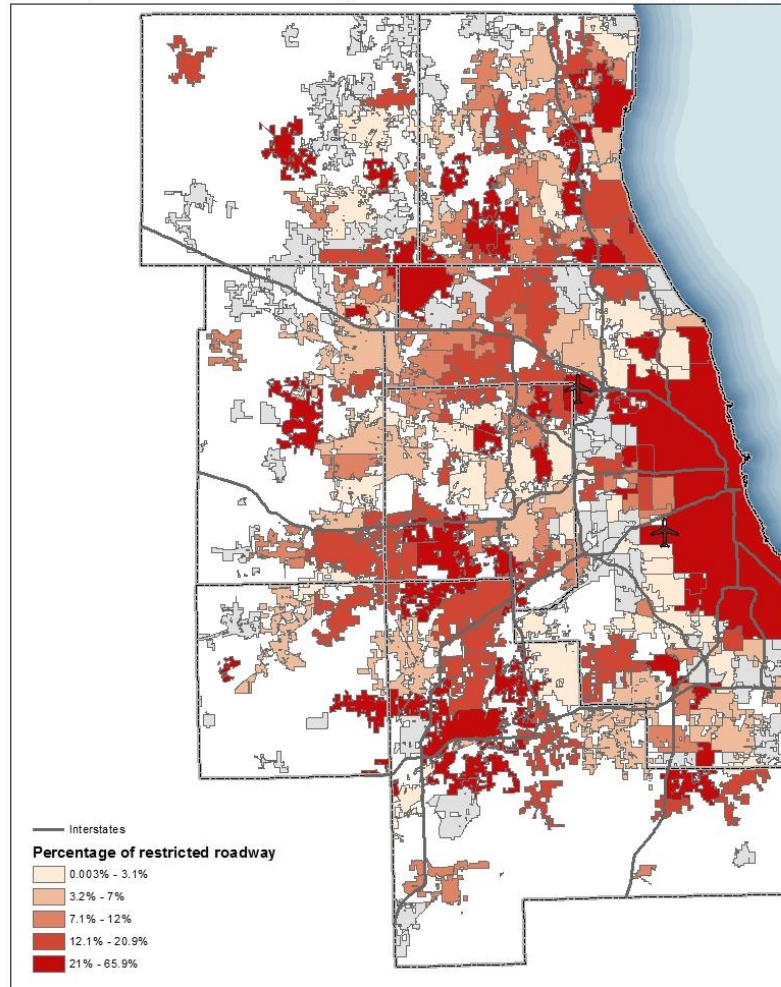
Truck routes and restrictions in the CMAP region



Source: Chicago Metropolitan Agency for Planning Analysis of Illinois Department of Transportation data and Illinois municipal and county codes.

Percentage of truck restricted roadways, by municipality

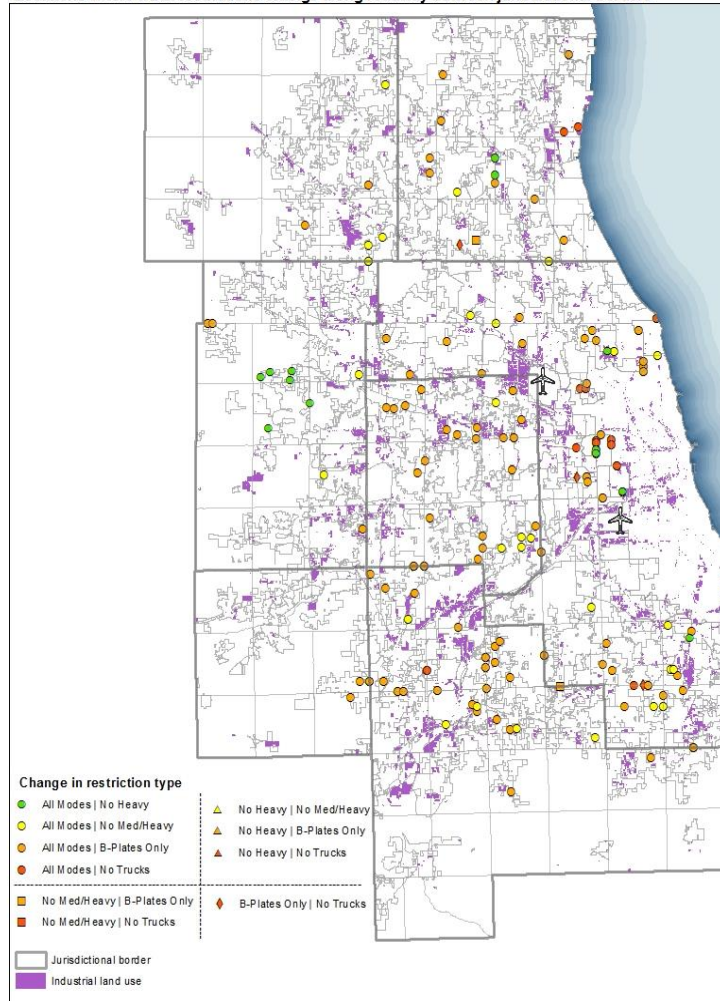
Percentage of Interstate or arterial roadway miles with restrictions on truck usage, by municipality



Note: Municipalities in grey have no restricted lane miles on interstates and arterials.
Source: Chicago Metropolitan Agency for Planning Analysis of Illinois Department of Transportation data and Illinois municipal codes.

Where truck restrictions change at jurisdictional borders

Locations where truck restrictions change along roadway between jurisdictional borders



Source: Chicago Metropolitan Agency for Planning Analysis of Illinois Department of Transportation data and Illinois municipal and county codes.

High level analysis of impacts of truck restrictions on commercial vehicle VMT and VHT

Restriction Scenarios	Commercial VMT	Commercial VHT
Current state of the system	16,997,764	454,109
With physical restrictions, no policy restrictions	16,864,998	448,928
With policy restrictions, no physical restrictions	16,968,657	452,342
All restrictions removed	16,840,407	448,160
% change with only physical restrictions, no policy restrictions	-0.78%	-1.14%
% change with only policy restrictions, no physical restrictions	-0.17%	-0.39%
% change with no restrictions	-0.93%	-1.31%

Source: CMAP trip-based model analysis

Next Steps



- Present policy and statutory options that may improve truck routing
- Inventory and assess freight supportive land uses and freight/land use conflicts



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Questions?

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