

Dispatching and Beyond



Free Dispatcher Course

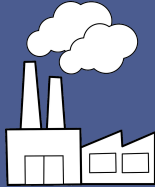
For Kyrgyz community entering
the US Trucking Industry

Created by **Adele Aidin**

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2. Logistics Fundamentals

Supply Chain



1. Production:

Direct manufacturing of goods that need to be transported.



2. Distribution:

Consolidation, packaging, and assembly of goods, preparing them for shipping.



3. Storage:

Warehousing products to save on storage costs before further distribution.



4. Retail delivery

FREIGHT



What is Freight?

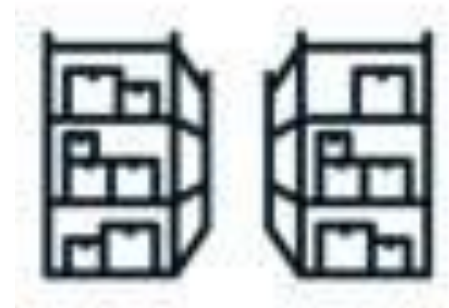
- goods transported in bulk
by truck, train, ship, or aircraft.

Perishable freight:
Foods and items
with limited shelf life

**Hazardous materials
(HAZMAT):**
Dangerous goods like chemicals

Dry freight:
Non-perishable goods

Oversized freight:
Machinery, construction
materials



FREIGHT

Freight Classifications

LTL (Less-Than-Truckload)

Smaller shipments that don't fill a truck

FTL (Full Truckload):

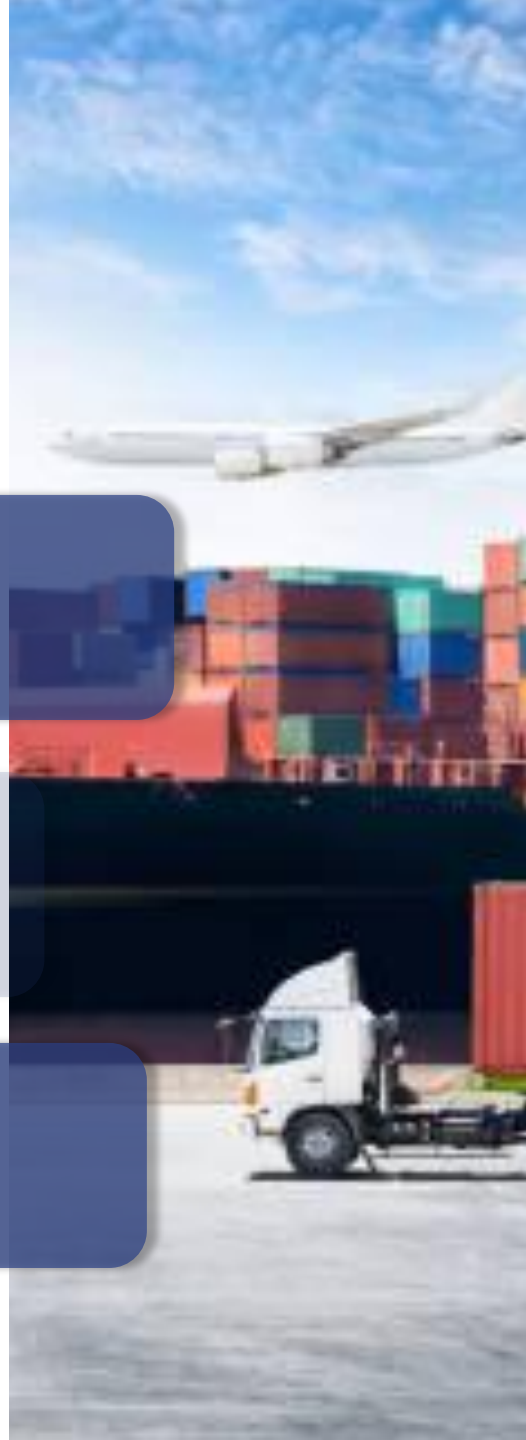
One shipper's goods fill an entire truck

Intermodal Freight:

Involves multiple modes of transportation (road, rail, sea)

Expedited Freight:

Time-sensitive deliveries that require faster transport



VEHICLES

Key Vehicles Types



BOX



TANK



STAKE



TRACTOR TRUCK



DUMP



PICKUP



BOOM CRANE



REFRIGERATED



FLATBED



JUMBO



STEP VAN



CONCRETE MIXER



LUTON



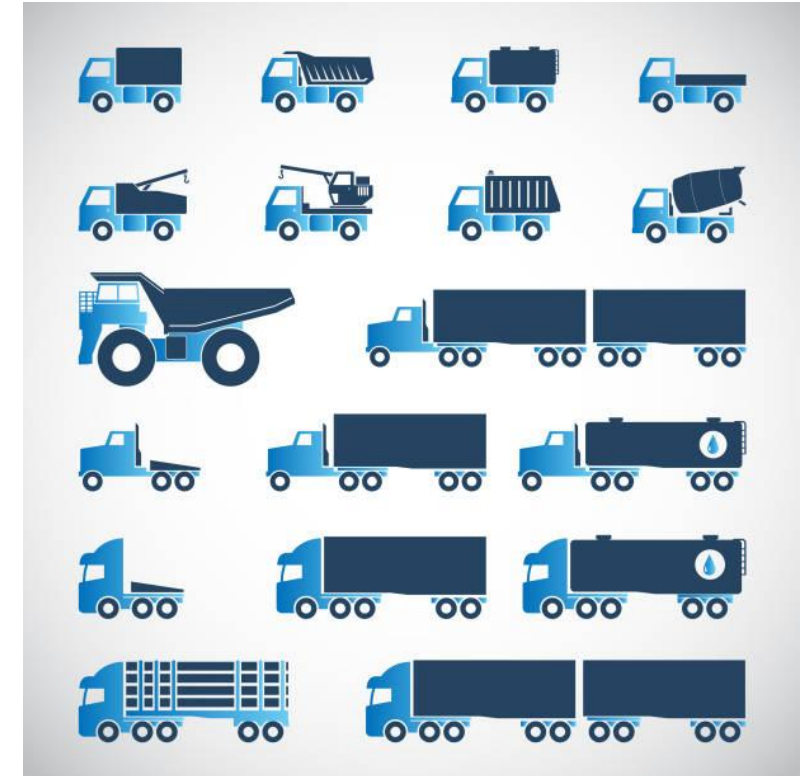
TOW



AUTONOMOUS



GARBAGE

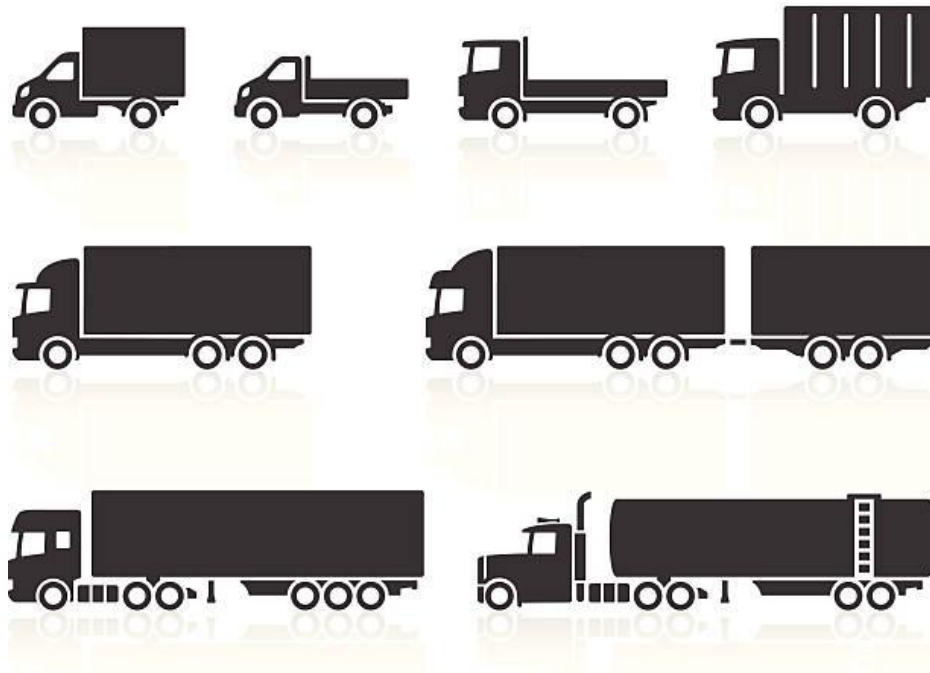


VEHICLES

Quiz time!

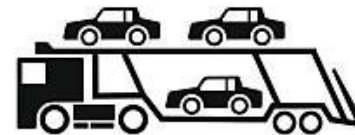
VEHICLES

Quiz time!



VEHICLES

Quiz time!



COSTS

Factors Affecting Freight Costs



Fuel Prices

Distance



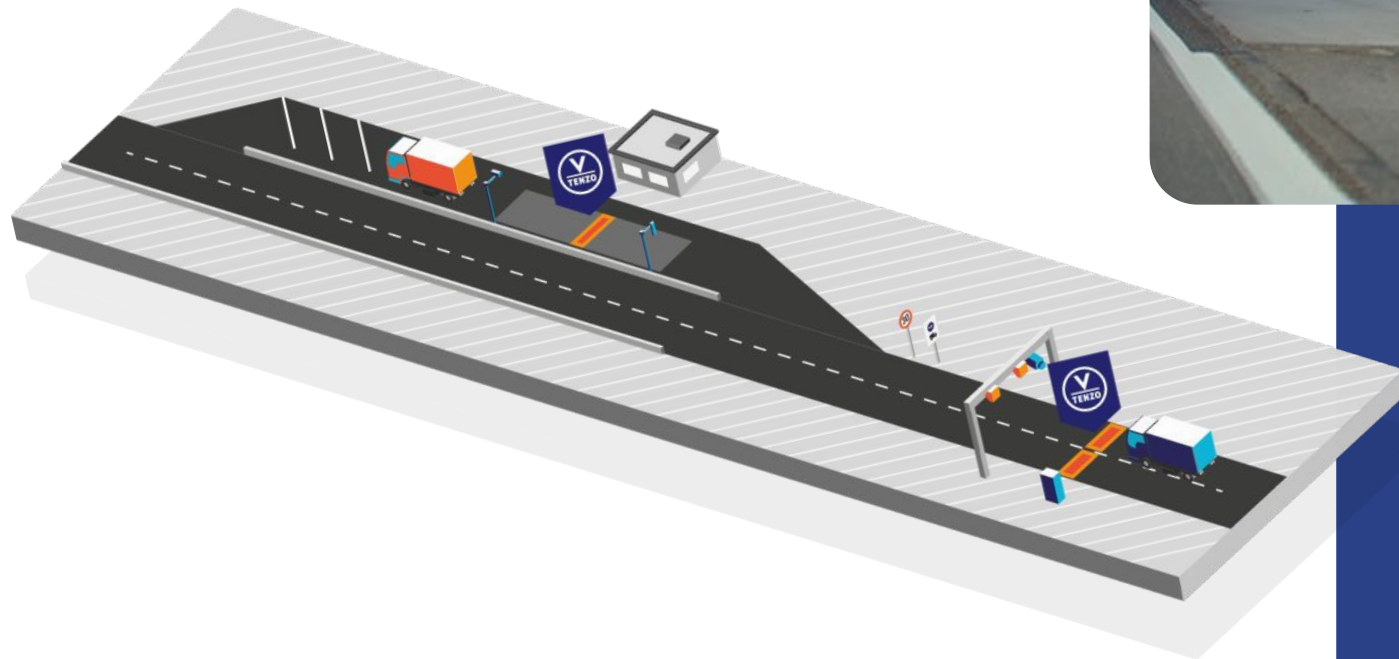
Load Size and Weight

Type of Goods

COSTS

"Weigh station"

is a special checkpoint on a highway where the weight of a truck is inspected.



Weather Impact on Freight

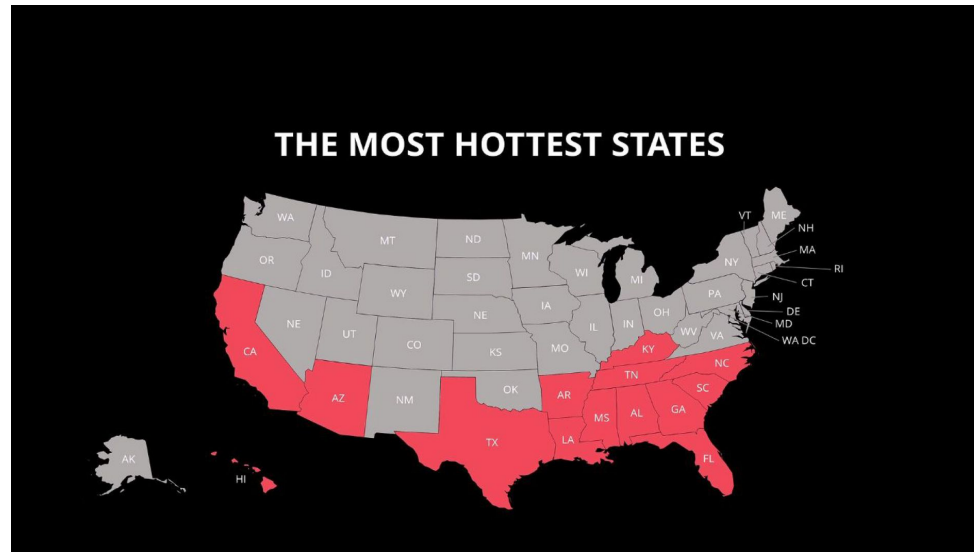
Extreme Weather Conditions

Snow, rain, or hurricanes can delay shipments
Heat may affect refrigerated goods.

Seasonal Demand

Holiday seasons see an increase in freight volume.
Certain weather events may lead to shortages of transport availability.

COSTS



COSTS

PACIFIC DAYLIGHT TIME
PDT (UTC-7)

06:35:48 A.M.

MOUNTAIN DAYLIGHT TIME
MDT (UTC-6)

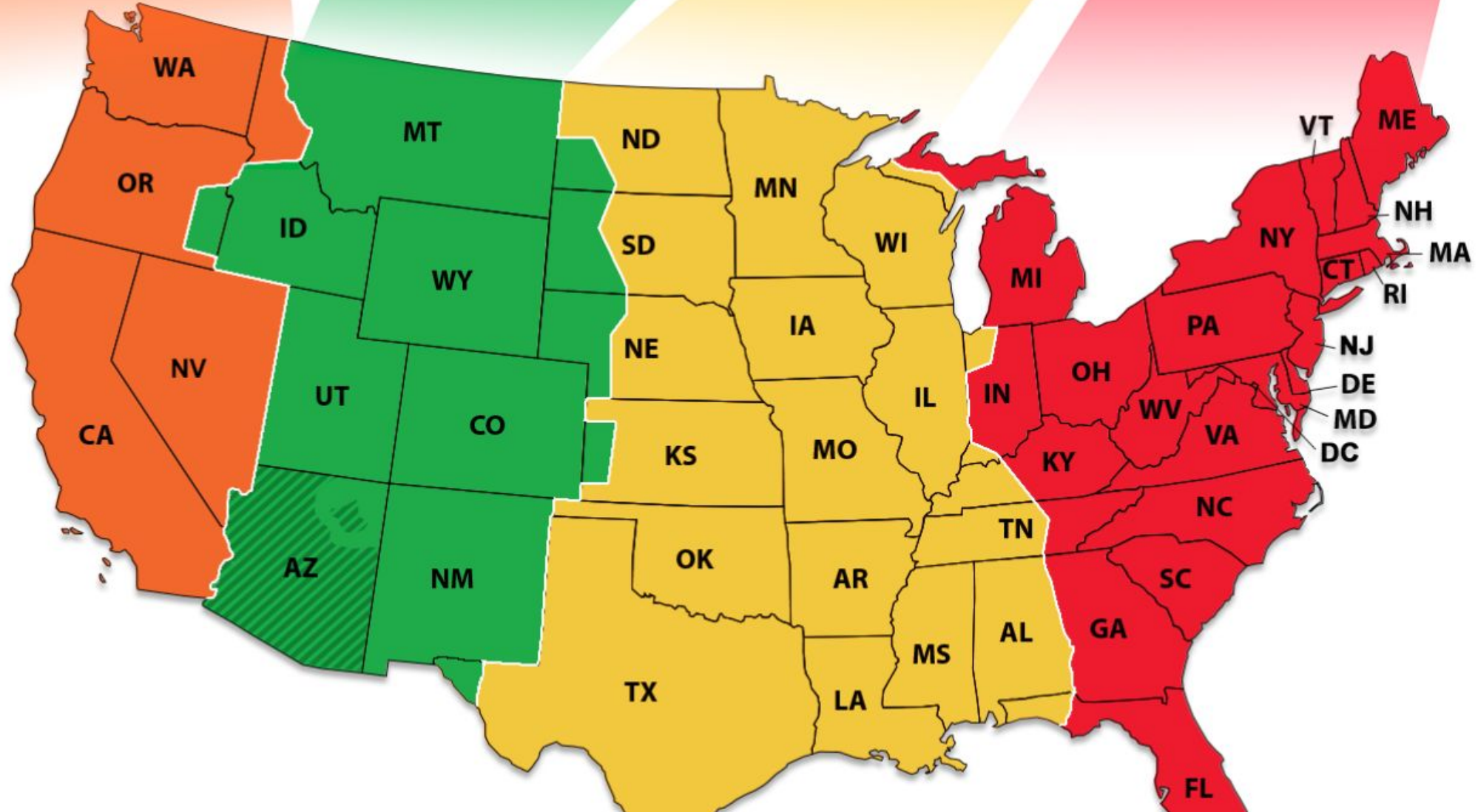
07:35:48 A.M.

CENTRAL DAYLIGHT TIME
CDT (UTC-5)

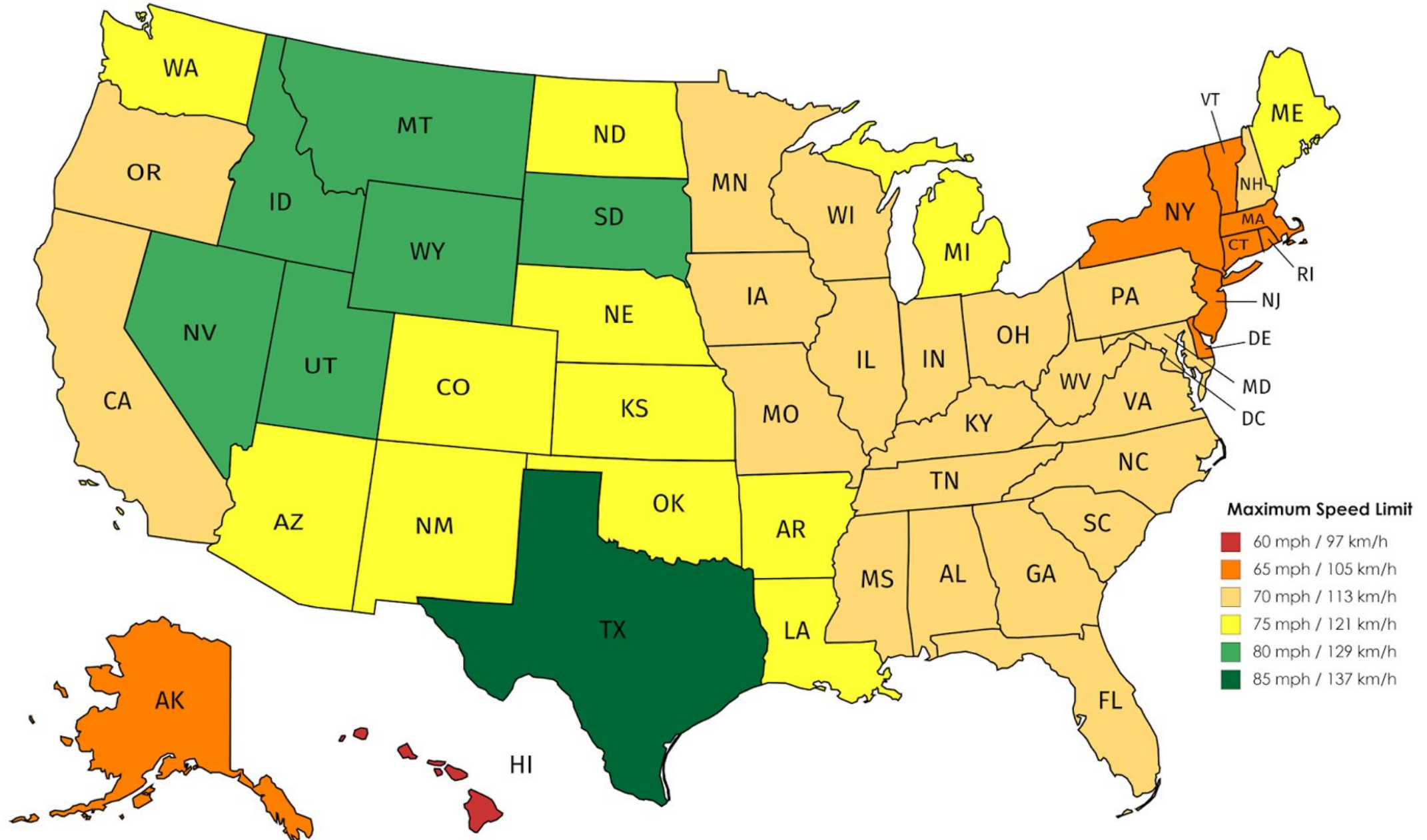
08:35:48 A.M.

EASTERN DAYLIGHT TIME
EDT (UTC-4)

09:35:48 A.M.



COSTS



Freight Security

Cargo Theft Prevention

GPS tracking and secure parking

Proper Sealing and Locking

Prevent tampering with the load



Insurance Coverage

Ensuring goods are insured during transit

COSTS

Personal protective equipment



Foot Protection

Falling or rolling objects, sharp or heavy objects etc.



Hearing Protection

Loud tools and machinery, poorly maintained equipment.



Head Protection

Falling or flying objects, overhead objects.



Hand Protection

Sharp or hot objects, chemicals, biological or electrical hazards.



Eye Protection

Blowing dust or particles, metal shavings, welding light etc.



High-visibility vest

Errant vehicle, distracted drivers.