

SFTA Origin-Destination Freight Data 1993/1994 – 2002 Spring/Summer Preliminary Comparisons:

Presentation to

*SFTA Advisory Committee Meeting
Walla Walla, Washington*

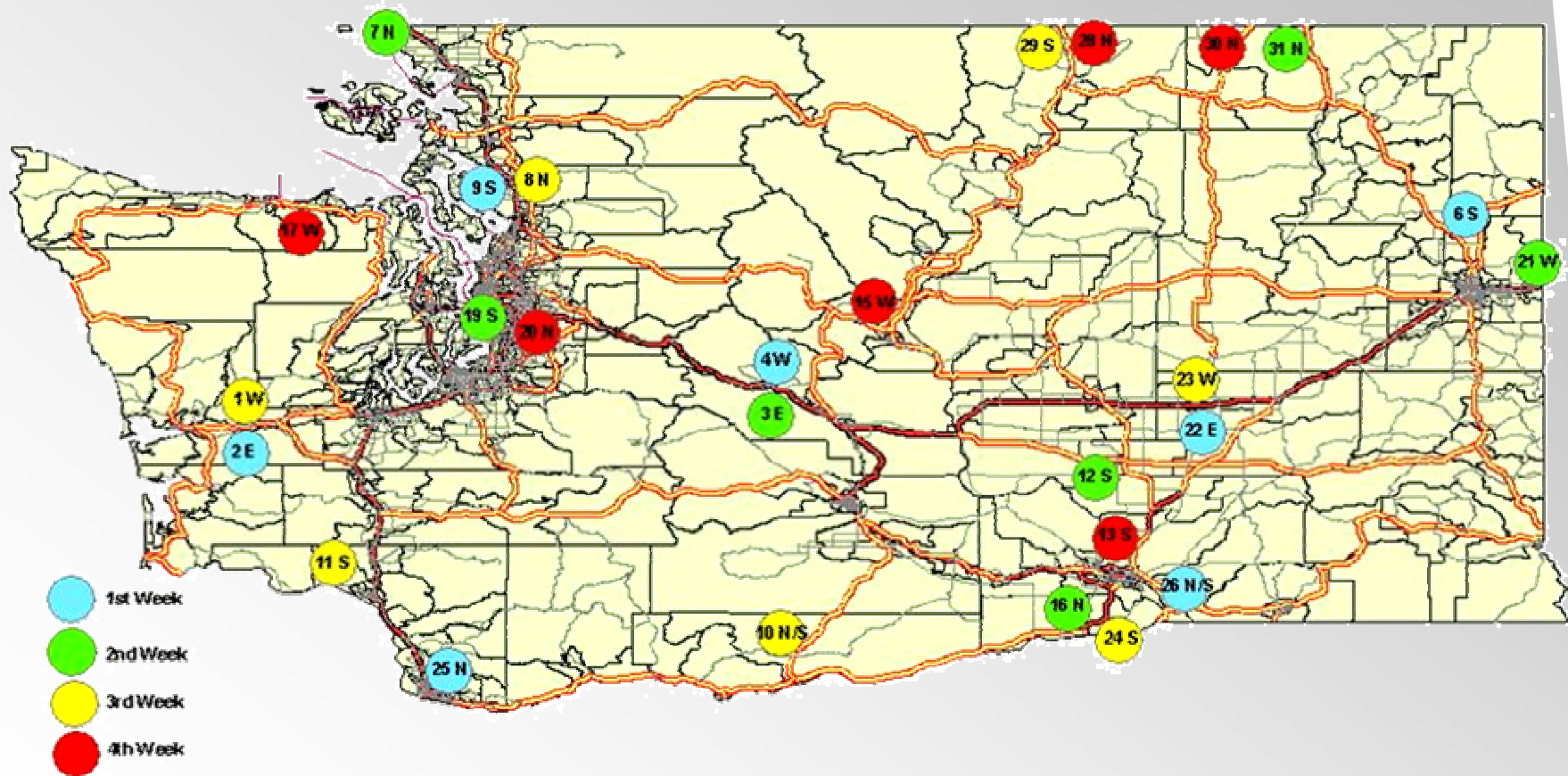
Eric Jessup

Mike Clark

Washington State University

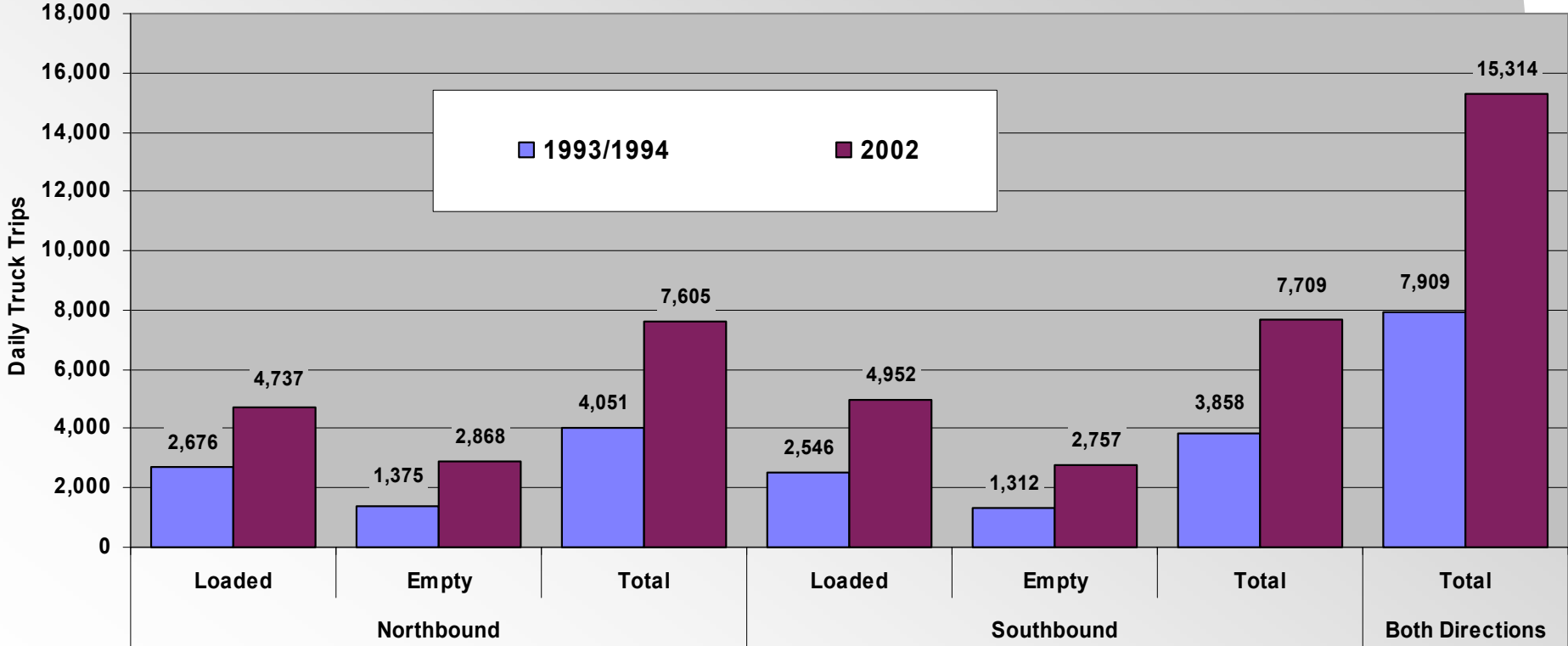


O-D Survey Sites



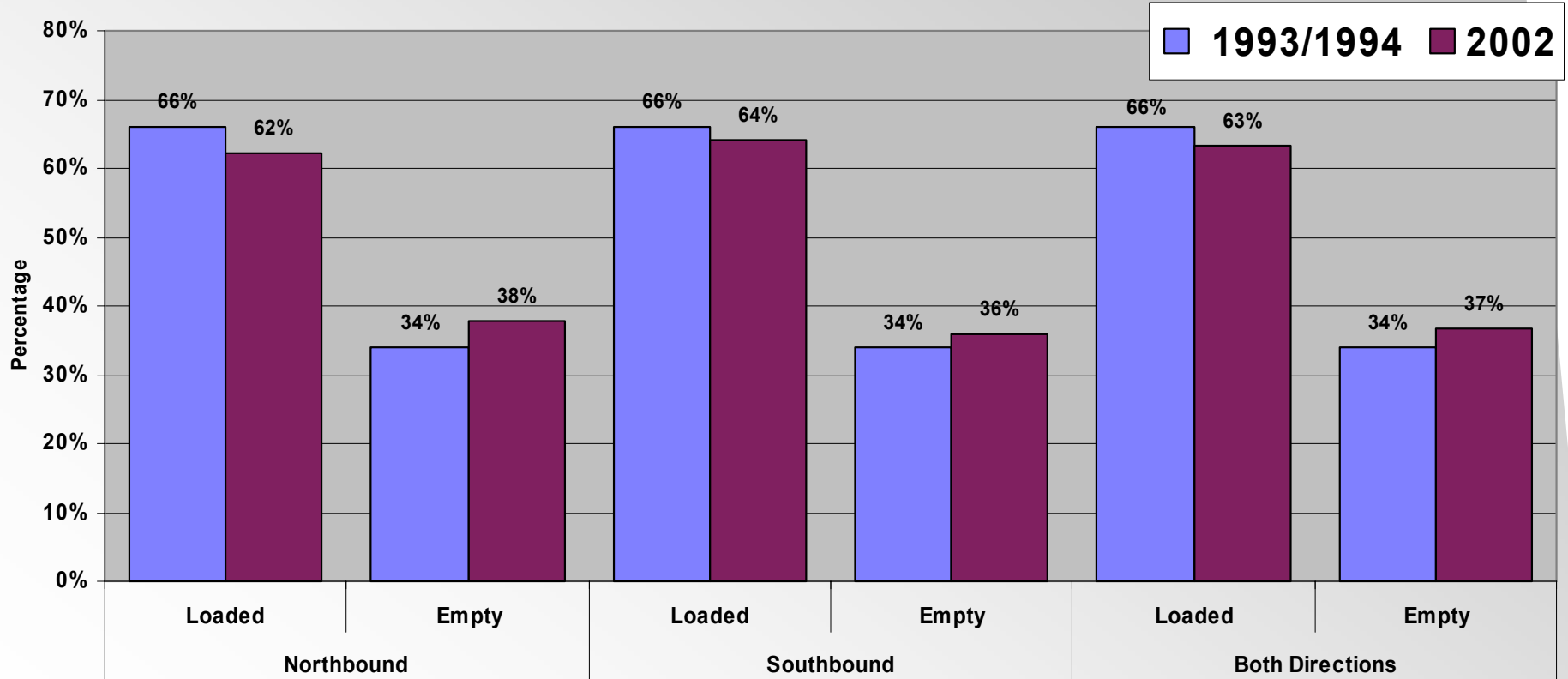
Daily Truck Trips, I-5

Daily Truck Trips on I-5 by Direction, Empty/Loaded Status and Year



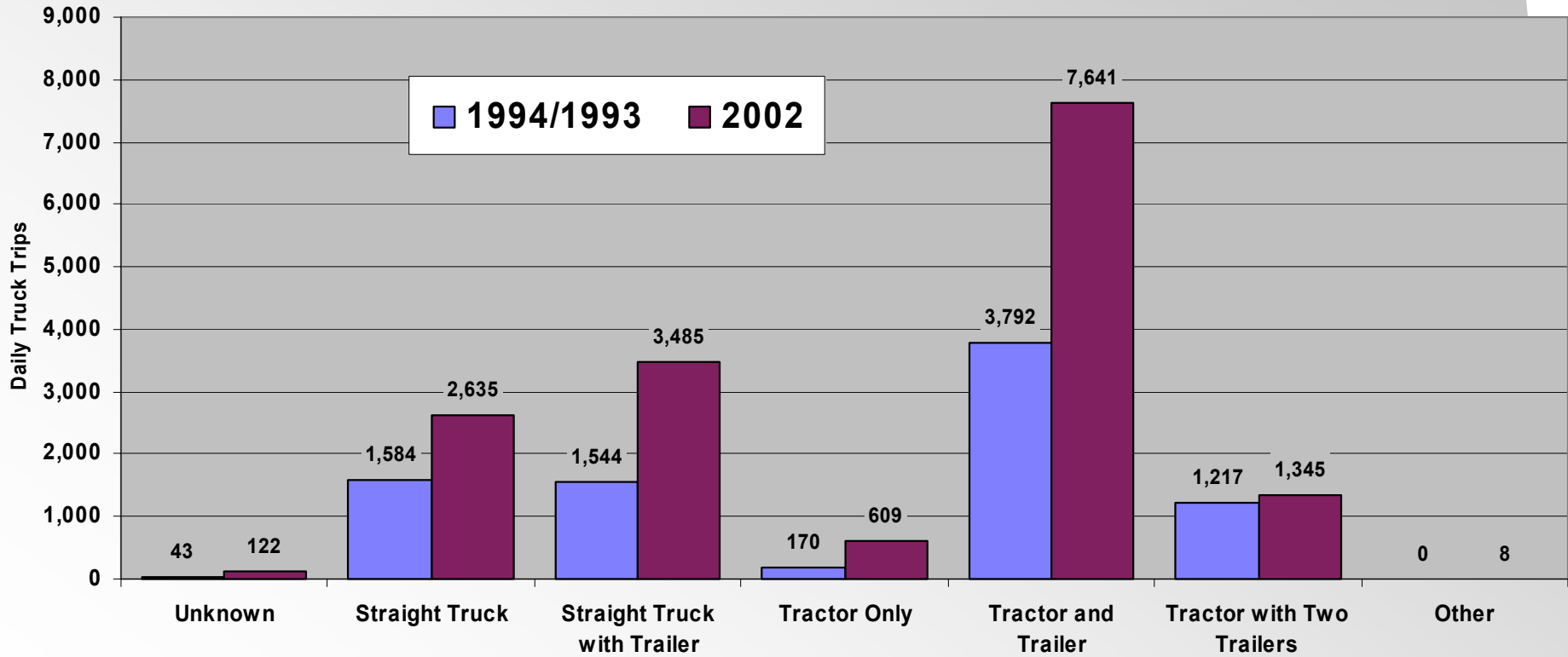
Loaded/Empty Trucks, I-5

Percentage of Empty/Loaded Trucks on I-5 by Direction and Year



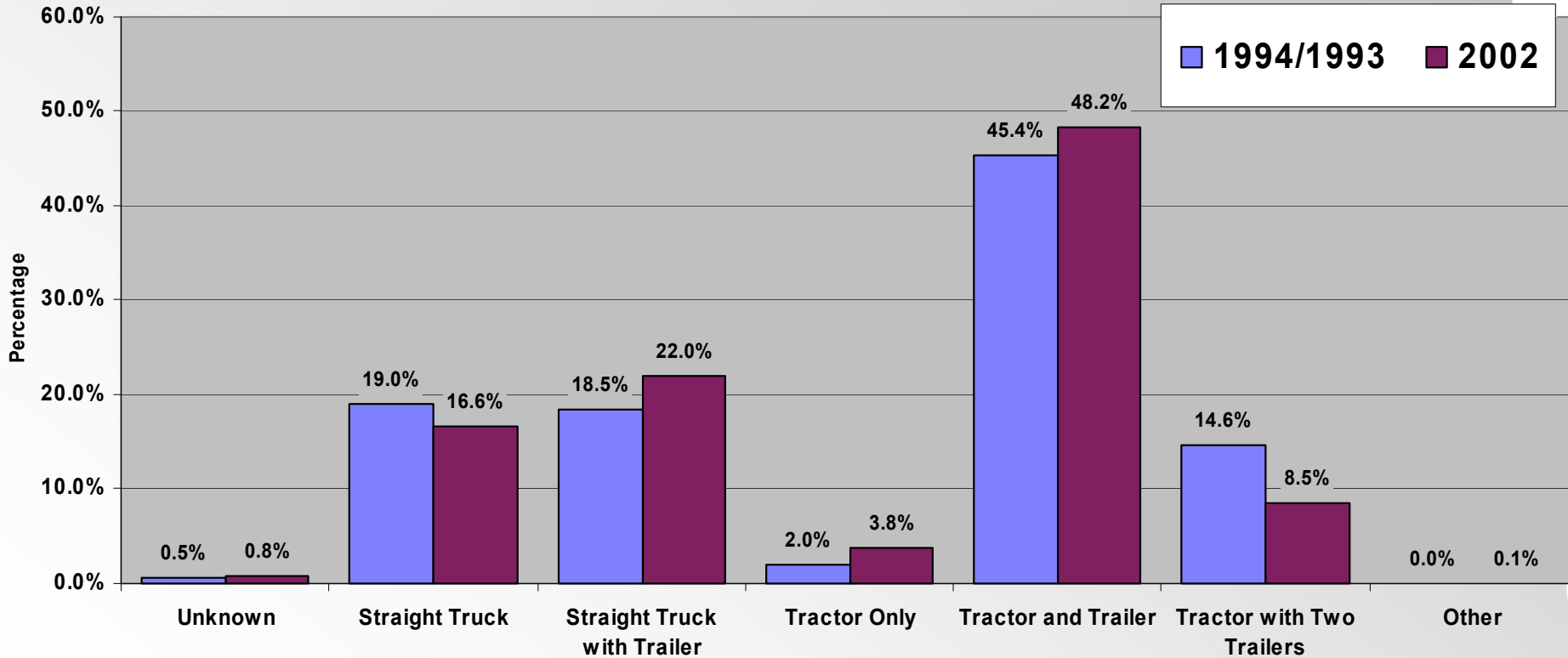
Truck Configuration (#), I-5

Truck Configuration Profiles on I-5 by Year



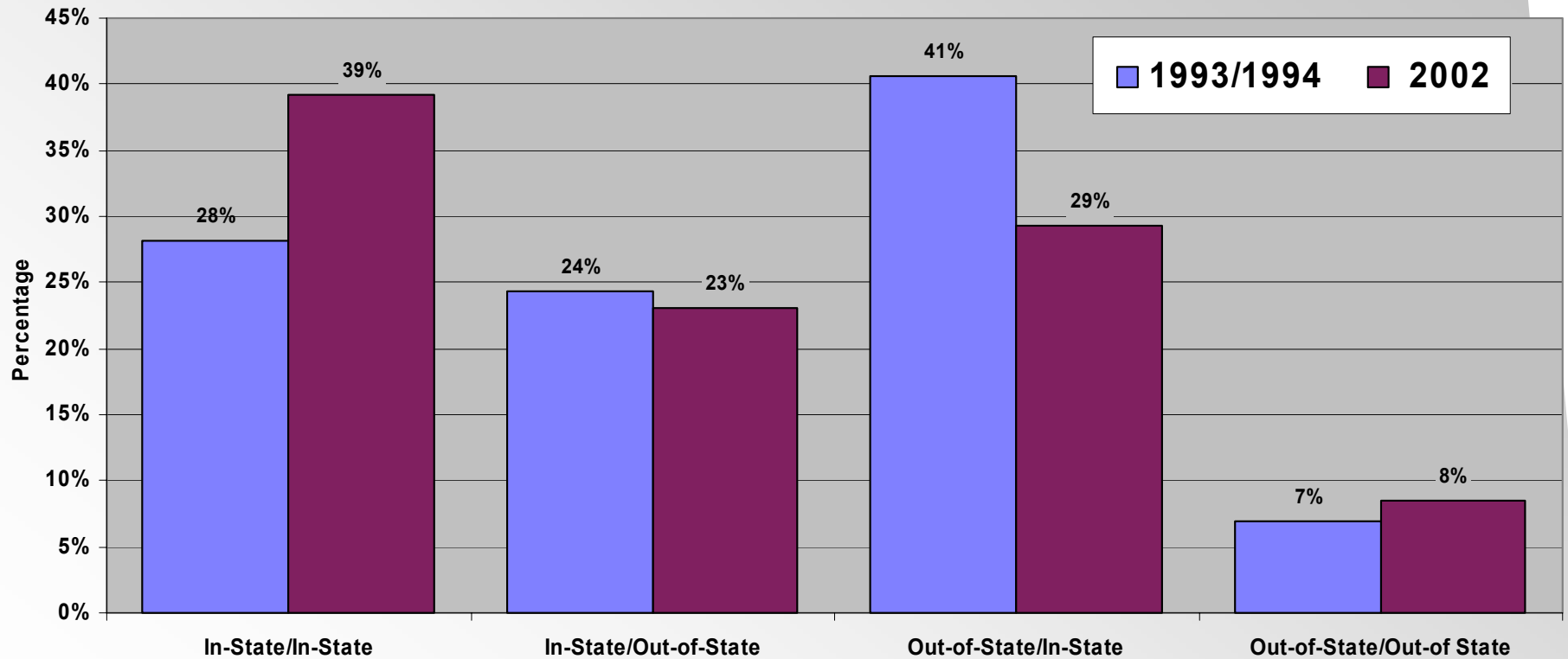
Truck Configuration (%), I-5

Truck Configuration Profile for I-5 in Percentages by Season



Origin/Destination (%), I-5

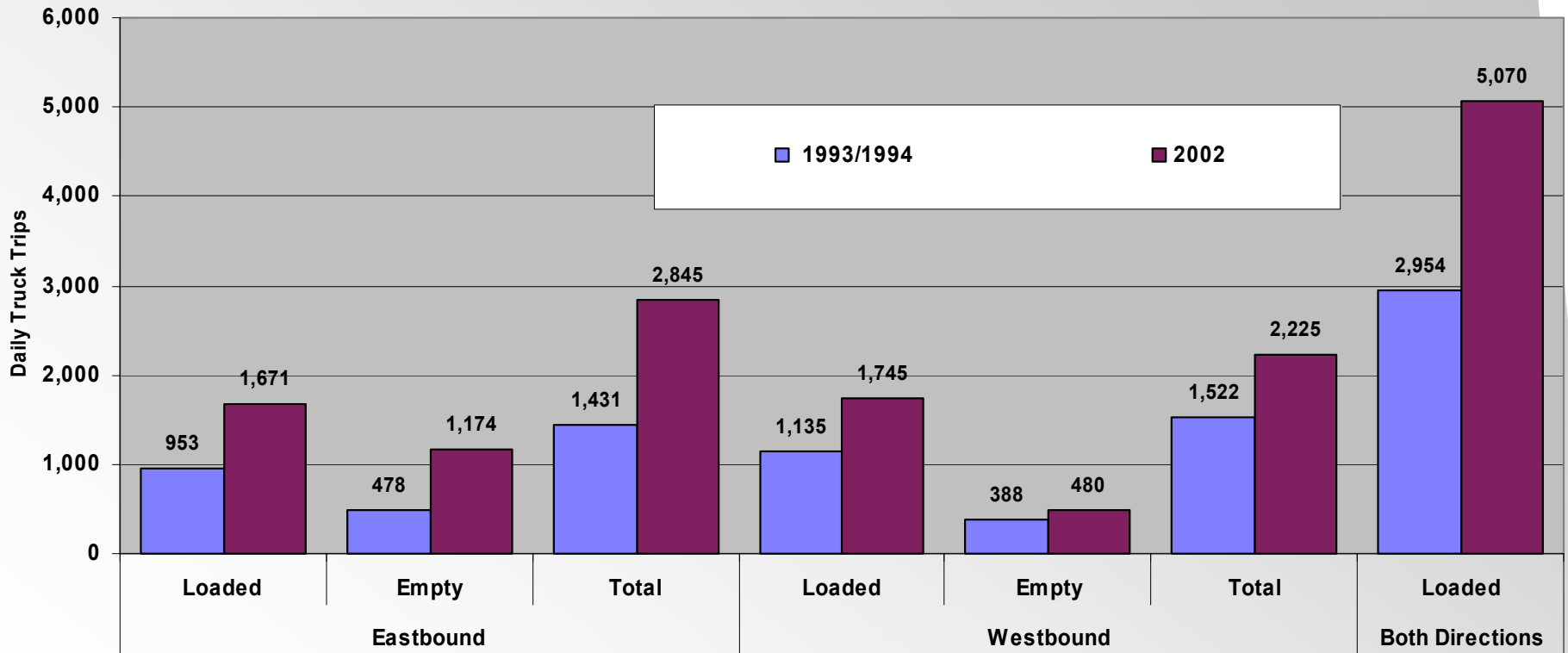
Percentage of Truck Trips by Origin/Destination on I-5 by Year



Daily Truck Trips, I-90



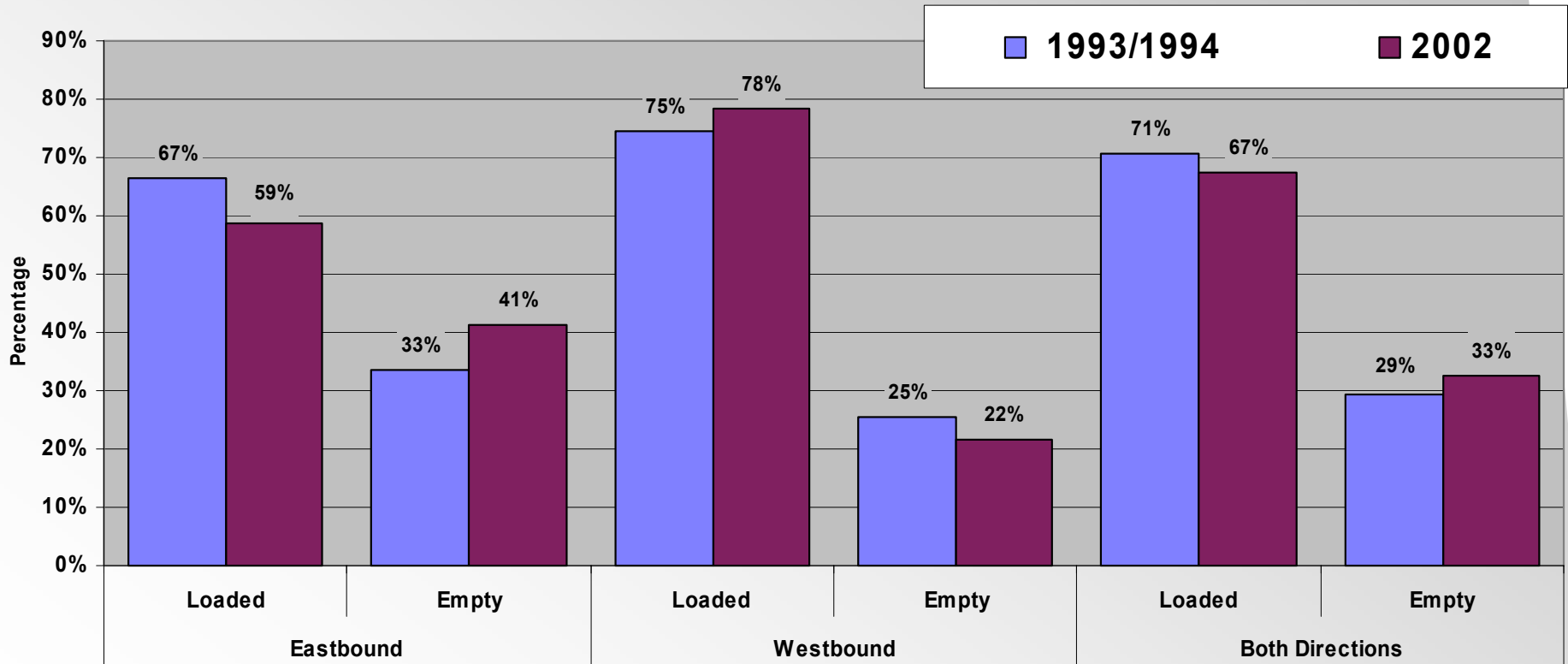
Daily Truck Trips on I-90 by Direction, Empty/Loaded Status and Year



Loaded/Empty Trucks, I-90



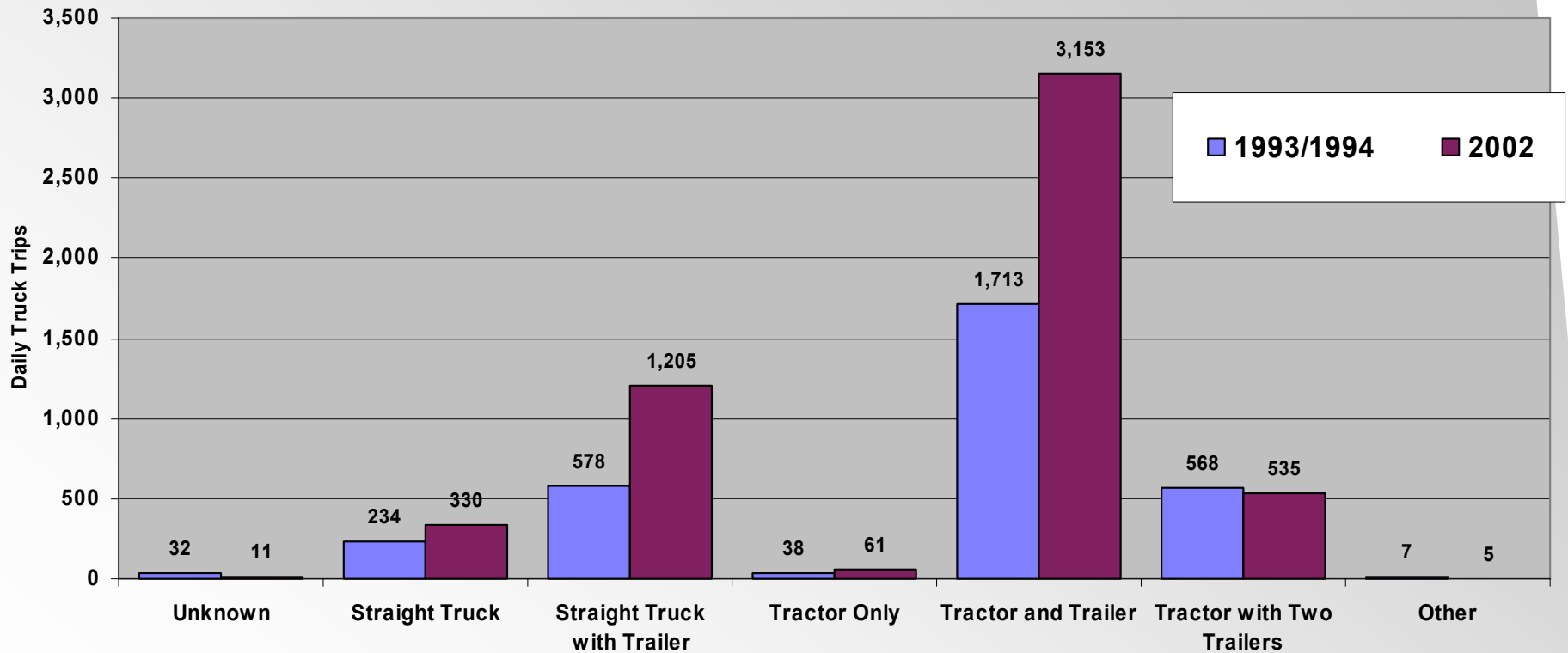
Percentage of Empty/Loaded Trucks on I-90 by Direction and Year



Truck Configuration (#), I-90



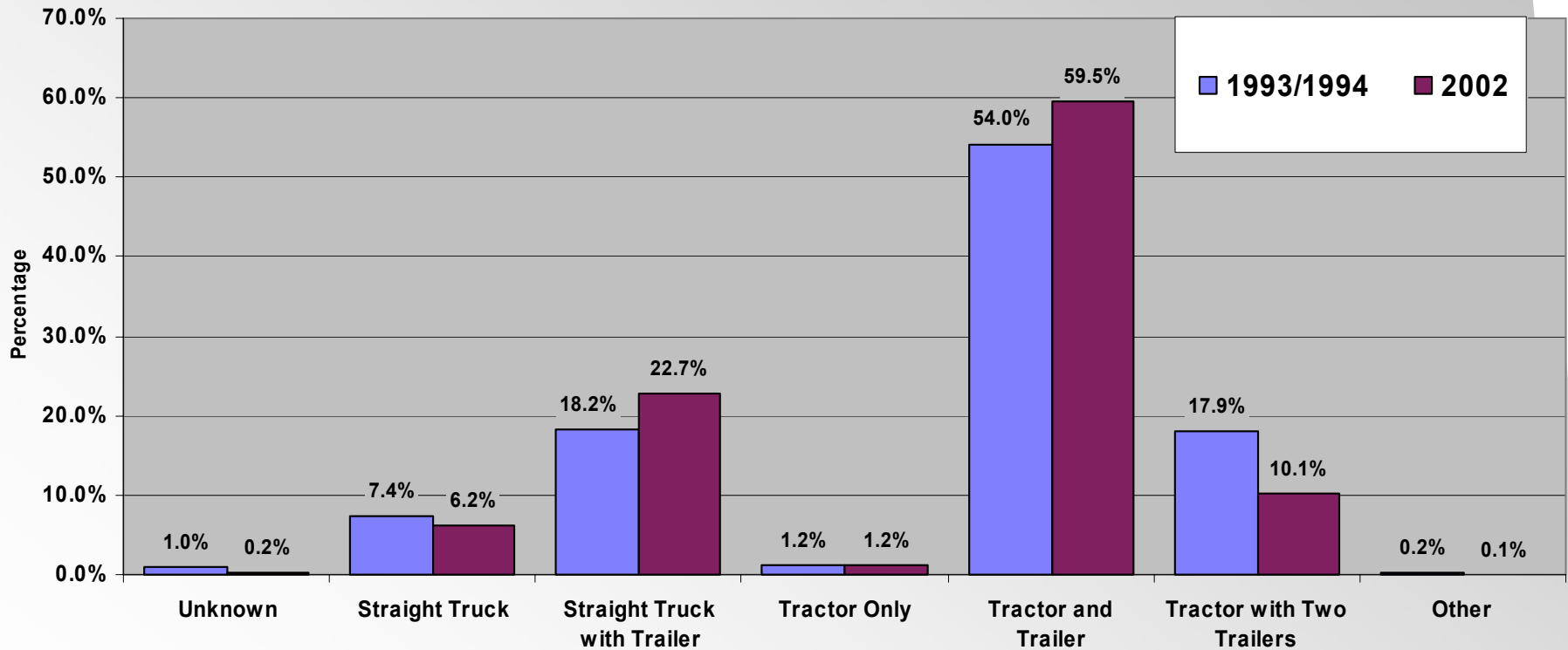
Truck Configuration Profiles on I-90 by Year



Truck Configuration (%), I-90



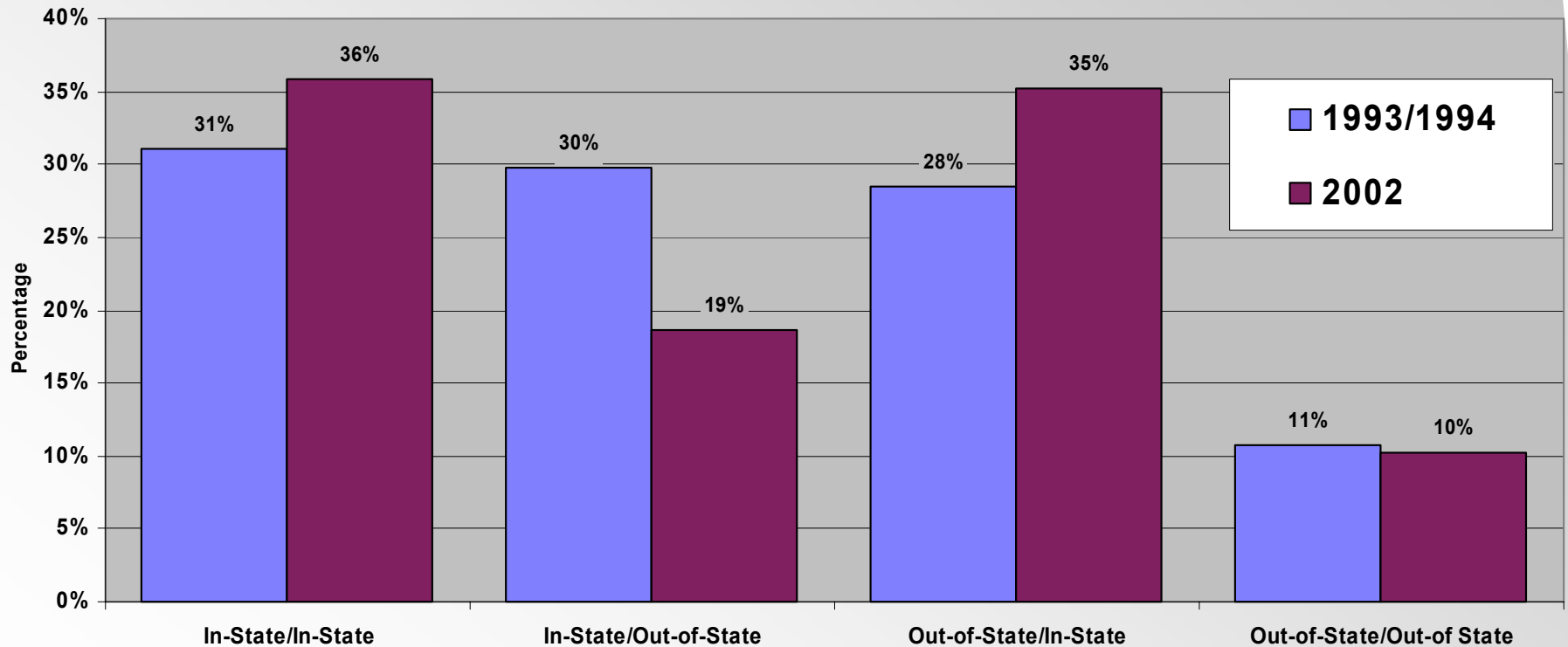
Truck Configuration Profile for I-90 in Percentages by Season



Origin/Destination (%), I-90

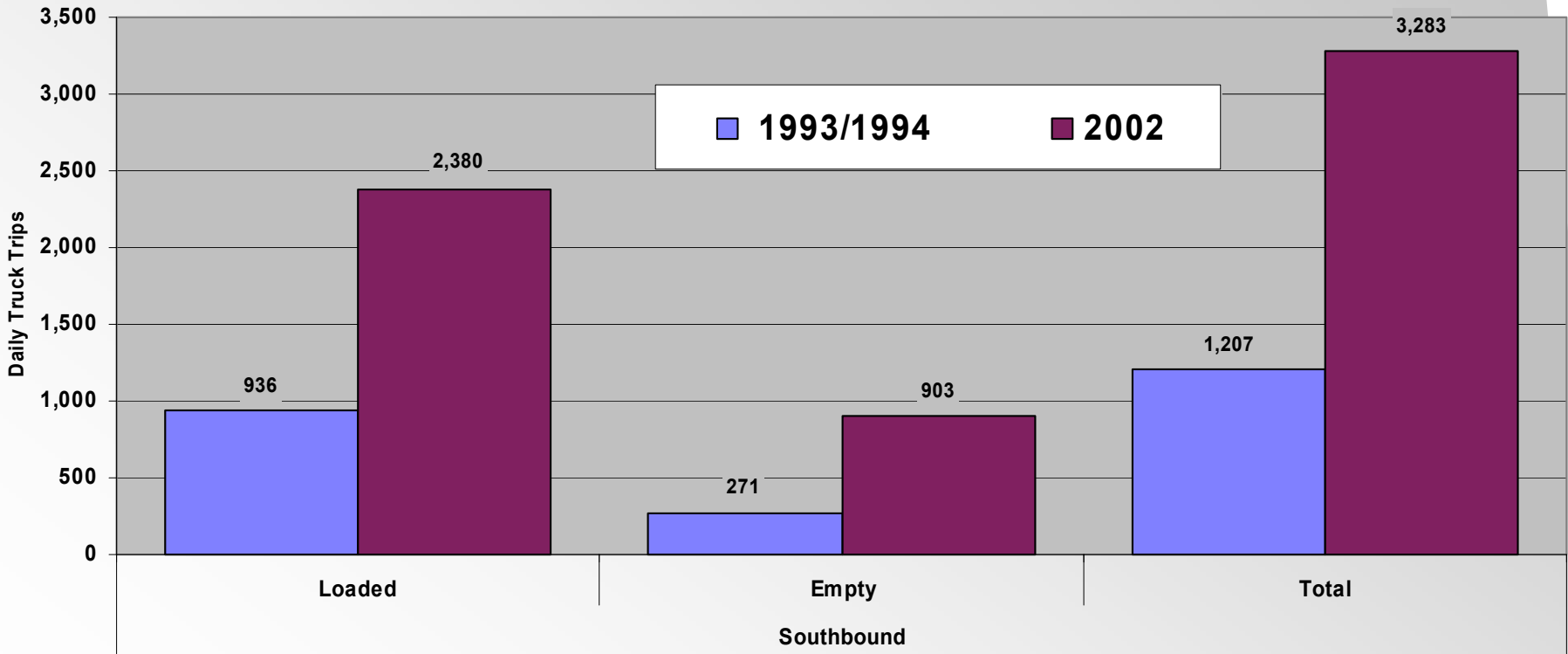


Percentage of Truck Trips on I-90 by Origin/Destination and Year

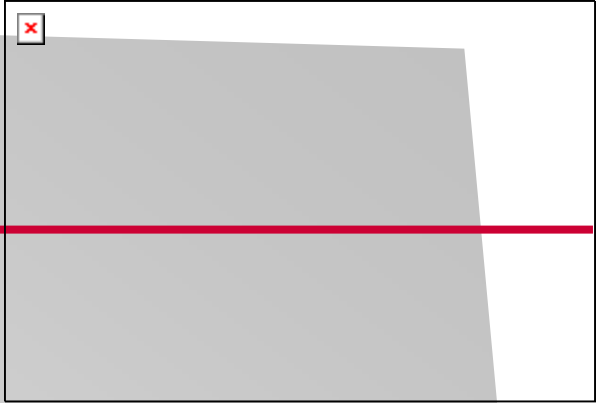


Daily Truck Trips, Hwy-395

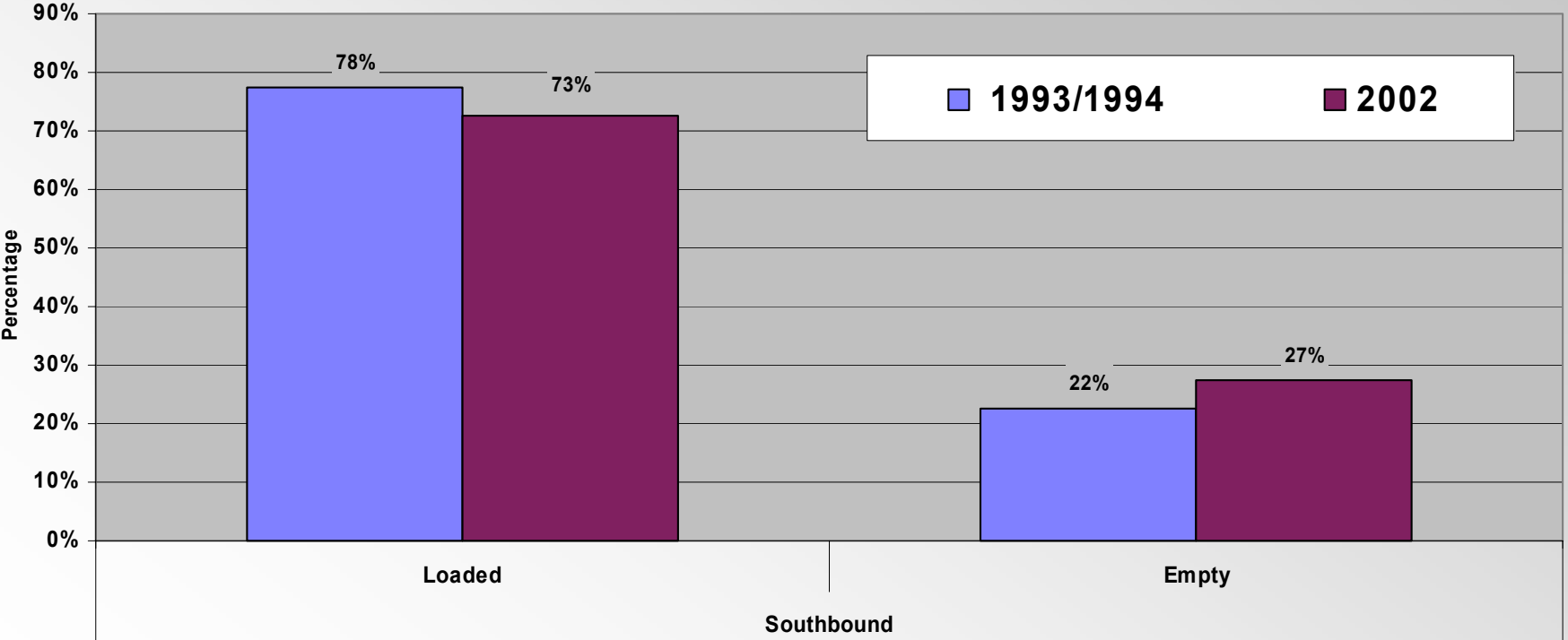
Daily Truck Trips on Southbound US-395, by Empty/Loaded Status and Year



Loaded/Empty Trucks, Hwy-395

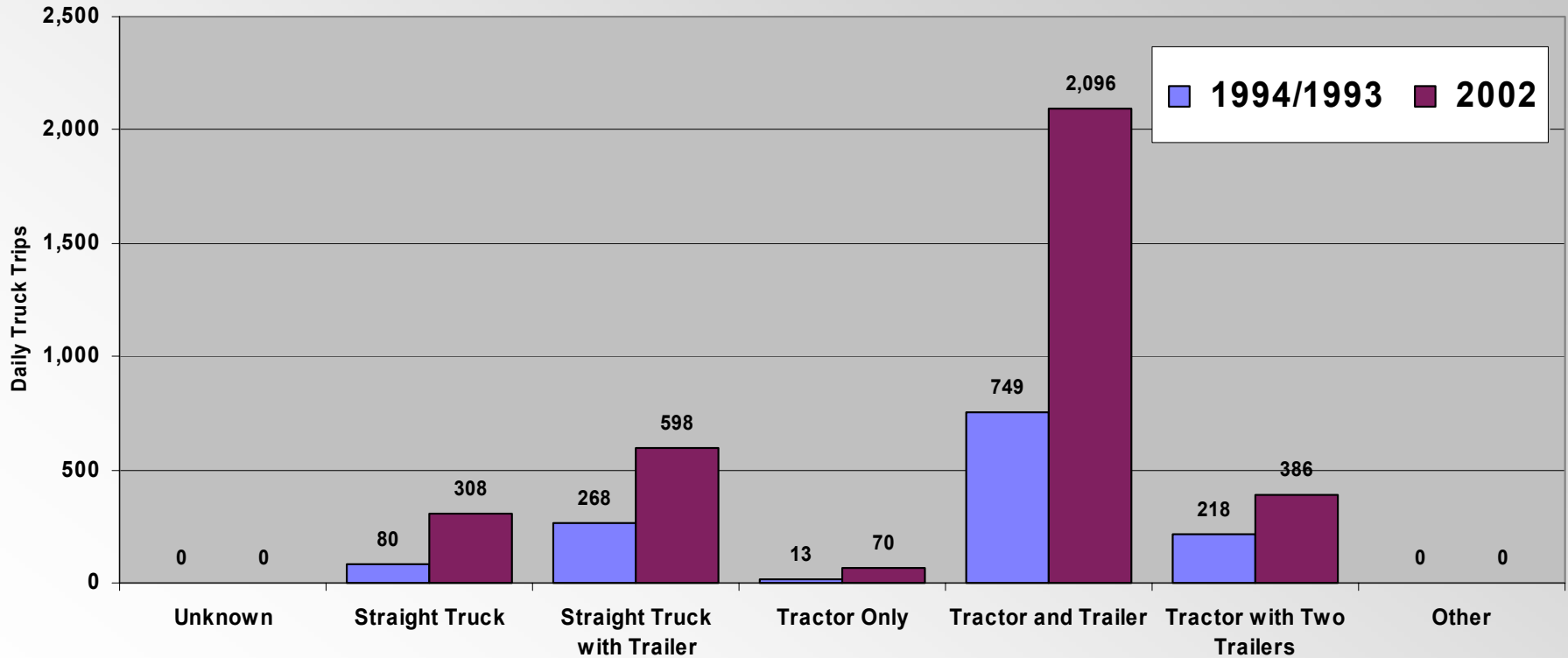


Percentage of Empty/Loaded Trucks on Southbound US-395 by Year



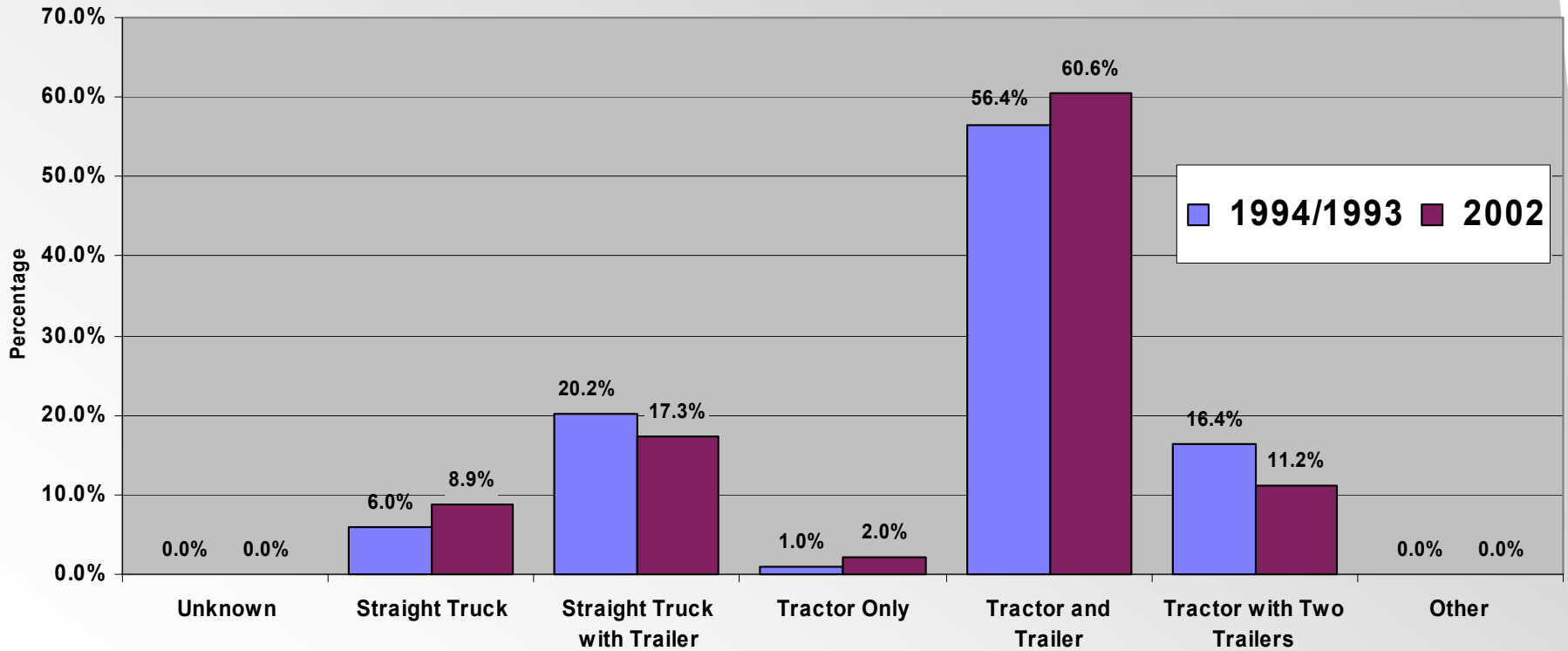
Truck Configuration (#), Hwy-395

Truck Configuration Profiles on Southbound US-395 by Year



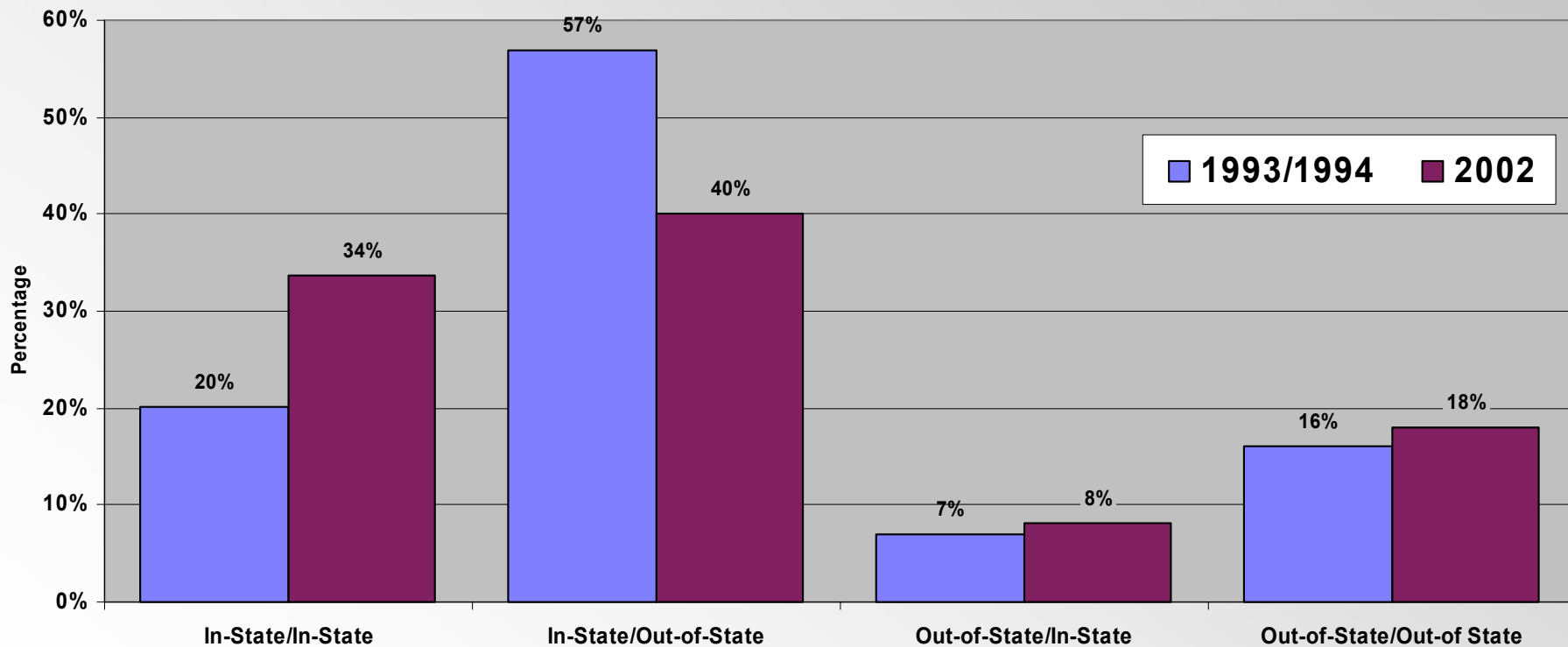
Truck Configuration (%), Hwy-395

Truck Configuration Profile for Southbound US-395 in Percentages by Season



Origin/Destination (%), Hwy-395

Percentage of Daily Truck Trips on US395 by Origin/Destination and Year



I-5 Summary Findings

- **Freight truck traffic increased 94% between 1994 - 2002.**
- **Northbound traffic slightly heavier.**
- **Proportion of loaded trucks roughly the same, slightly less.**
- **Tractor and trailer configuration represents the largest truck type, and the configuration with the largest increase, followed by truck and trailer.**
- **Out-of-State to In-State shipments represented the largest % in 1994, In-State to In-State shipments have the largest share in 2002.**

I-90 Summary Findings

- **Freight truck traffic increased 72% between 1994 - 2002.**
- **Eastbound traffic slightly heavier than westbound.**
- **Proportion of loaded trucks greater for westbound traffic.**
- **Tractor and trailer configuration represents the largest truck type, and the configuration with the largest increase, followed by truck and trailer.**
- **Big increase in In-State to In-State, and Out-of-State to In-State shipments.....decrease in In-State to Out-of-State and Out-of-State to Out-of-State shipments.**

US 395 Summary Findings

- **Freight truck traffic increased 172% between 1994 - 2002.**
- **Proportion of loaded trucks roughly the same, slightly less.**
- **Tractor and trailer configuration represents the largest truck type, and the configuration with the largest increase, followed by truck and trailer.**
- **In-State to In-State shipments represent the largest relative increase, but In-State to Out-of-State shipments still represents the largest share.**

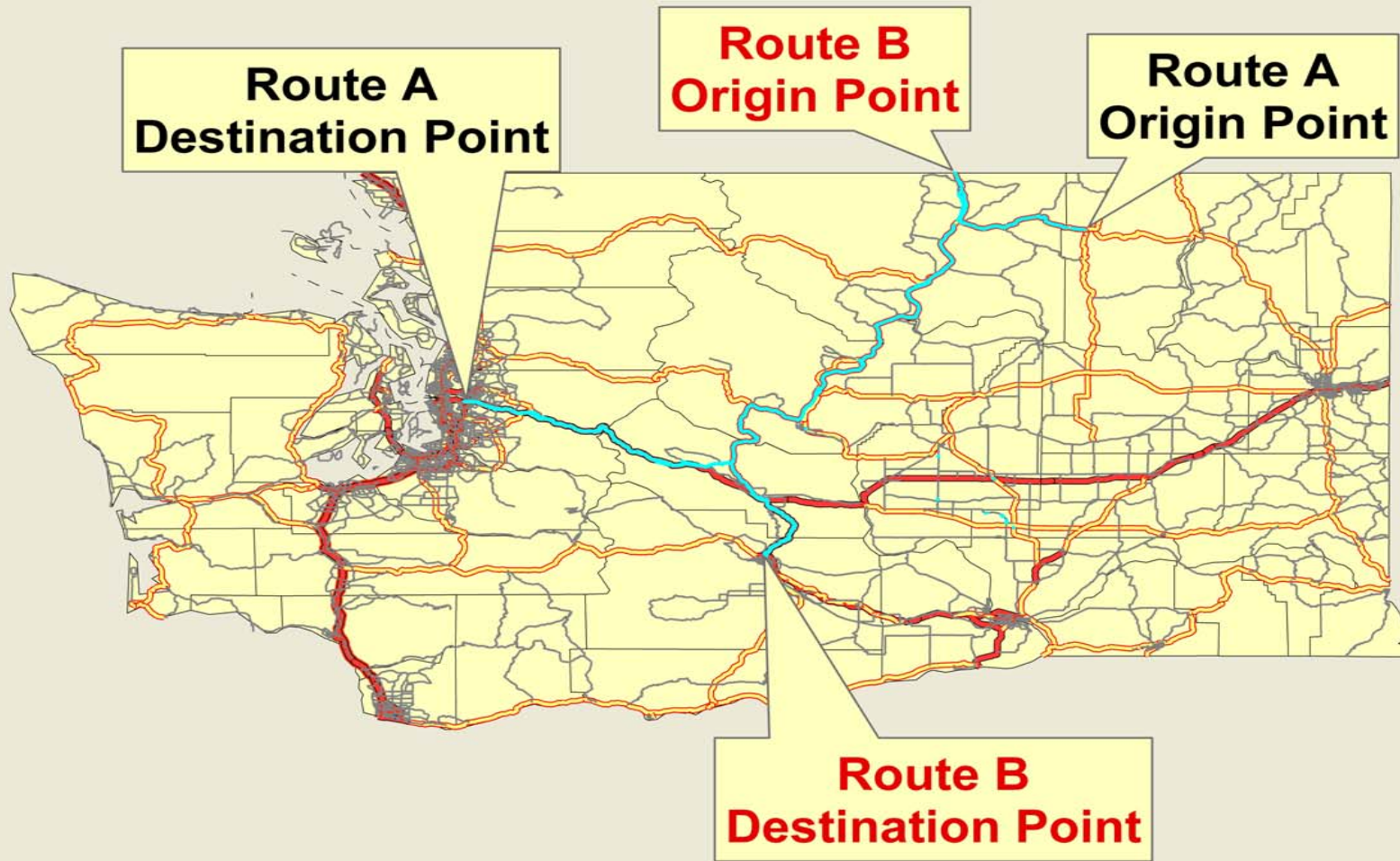
Questions ?



Geo-Coding O-D Surveys

- **What does it mean?**
 - **Assigning a collection of road and highway segments to each individual truck shipment (survey). Every survey record will be linked to the collection of arcs that comprise that unique route.**

Geo-Coded Routes



Geo-Coding O-D Surveys

- **What analytical capabilities does it bring?**
 - **Associates all information captured from survey with specific geographical attributes (roads and highways).**
 - **Commodity (Industry)**
 - **Truck Configuration**
 - **Weight**
 - **Origin/Destination**
 - **Time of Day**
 - **Facility Type**