NERPM Port Truck Enhancement

North Florida TPO

Florida Department of Transportation

The Corradino Group, Inc.

Atkins

Florida Model Task Force
March 5-7, 2012
Purpose

- Supplement NERPM truck trip
- Account for Port of Jacksonville Trucks
- Use Data from the Statewide Model
NERPM Truck Purpose

- Based on the *Quick Response Freight Manual (QRFM)*.

- Uses FSUTMS Employment Variables.

- No truck special generators, not sensitive to Port trucks.
Enhanced Truck Model

- Extract Truck trips from the Statewide model.
- 14 commodity groups (Agricultural; Minerals; Coal; Food; Non-Durable Manufacturing; Lumber; Chemicals; Paper; Petroleum Products; Other Durable Manufacturing; Clay, Concrete, Glass, and Stone; Waste; Miscellaneous Freight; and Warehousing). Converted to trucks.
- Overlay Port Trucks on top of other QRFM trucks.
Port Truck Trips

- Port end data from local port studies;
- Non-port end data from the FSWFM;
- Drayage to intermodal site volumes from local port studies;
- Convert port truck trip tables from the FSWFM to NERPM TAZ system; and
- Integrate port trucks trips with the NERPM highway assignment.
Types of Port Truck Trips

Port Freight Flows

- PORT
- Intermodal Yards (CSX, NS, FEC)
- Drayage By Truck
- Goods Produced and Consumed Locally
- Trucks
- To and From Other Counties and States
Port Truck Flows

Desire Lines

Assigned Trips
Control File

<table>
<thead>
<tr>
<th>INDEX</th>
<th>NAME</th>
<th>ZONE</th>
<th>TRIPENDS</th>
<th>HWY_FRAC</th>
<th>IN_FRAC</th>
<th>TYPE</th>
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- Trip ends = daily trucks in and out of the terminal
- HWY_FRAC = fraction of trucks that enter and leave the terminal by highway
- IN_FRAC = For port terminals, fraction of trucks bound to and from intermodal rail yards. For intermodal rail yards, fraction of region-wide intermodal trucks using the facility.
- TYPE = Terminal type: port terminal (1) or intermodal rail yard (2).