



NERPM Port Truck Enhancement



North Florida TPO

Florida Department of Transportation

The Corradino Group, Inc.

Atkins





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



Trucks



Goods
Produced and
Consumed
Locally



Trucks

Drayage
By
Truck



Intermodal Yards
(CSX, NS, FEC)

To and From
Other Counties
and States

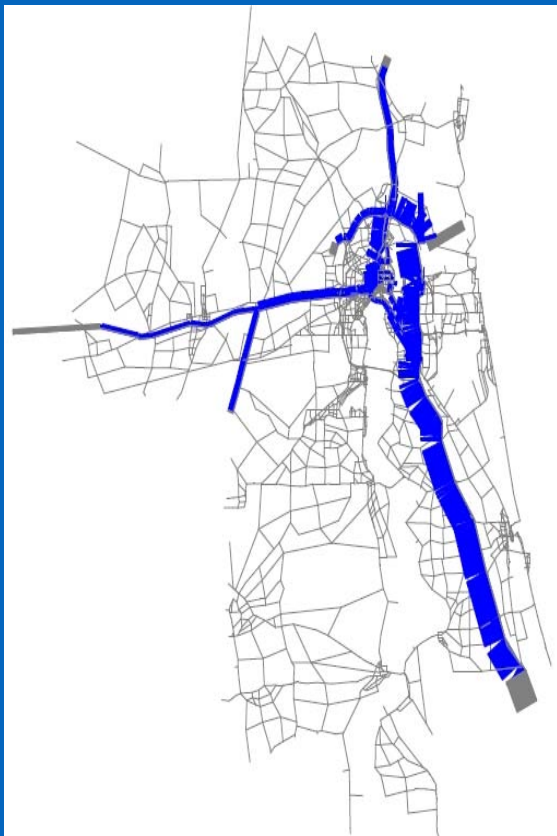




Port Truck Flows



Desire Lines



Assigned Trips

Control File

INDEX	NAME	ZONE	TRIPENDS	HWY_FRAC	IM_FRAC	TYPE
1	CSX Intermodal	187	0	0	0.33	2
2	FEC Intermodal	268	0	0	0.33	2
3	NS Intermodal	333	0	0	0.34	2
4	JAXPORT Cruise	351	0	1	0.25	1
5	Blount Island	415	1480	1	0.25	1
6	Dames Point	416	0	1	0.25	1
7	Talleyrand1	439	214	0.9	0	1
8	Talleyrand2	440	214	0.9	0	1

- Trip ends = daily trucks in and out of the terminal
- HWY_FRAC = fraction of trucks that enter and leave the terminal by highway
- IM_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).