

Hampton Roads Regional Freight Study

(2012 Update)

Project Team

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Regional Freight Study

- **Purpose:**

To assist TPO Board in making decisions on which transportation improvements related to freight are desirable.

- **Recent HRTPO Freight Studies:**

HR Regional Freight Study – April 2007

Traffic Impact of Inland Port in HR – Sept. 2011

- **Schedule:**

Small scale study to be completed by June 30, 2012.



Regional Freight Study

1. Commodity Flows

Source: Freight Analysis Framework (FAF3)

2. Regional Truck Volumes

Source: VDOT Truck Counts (2009 – 2011)

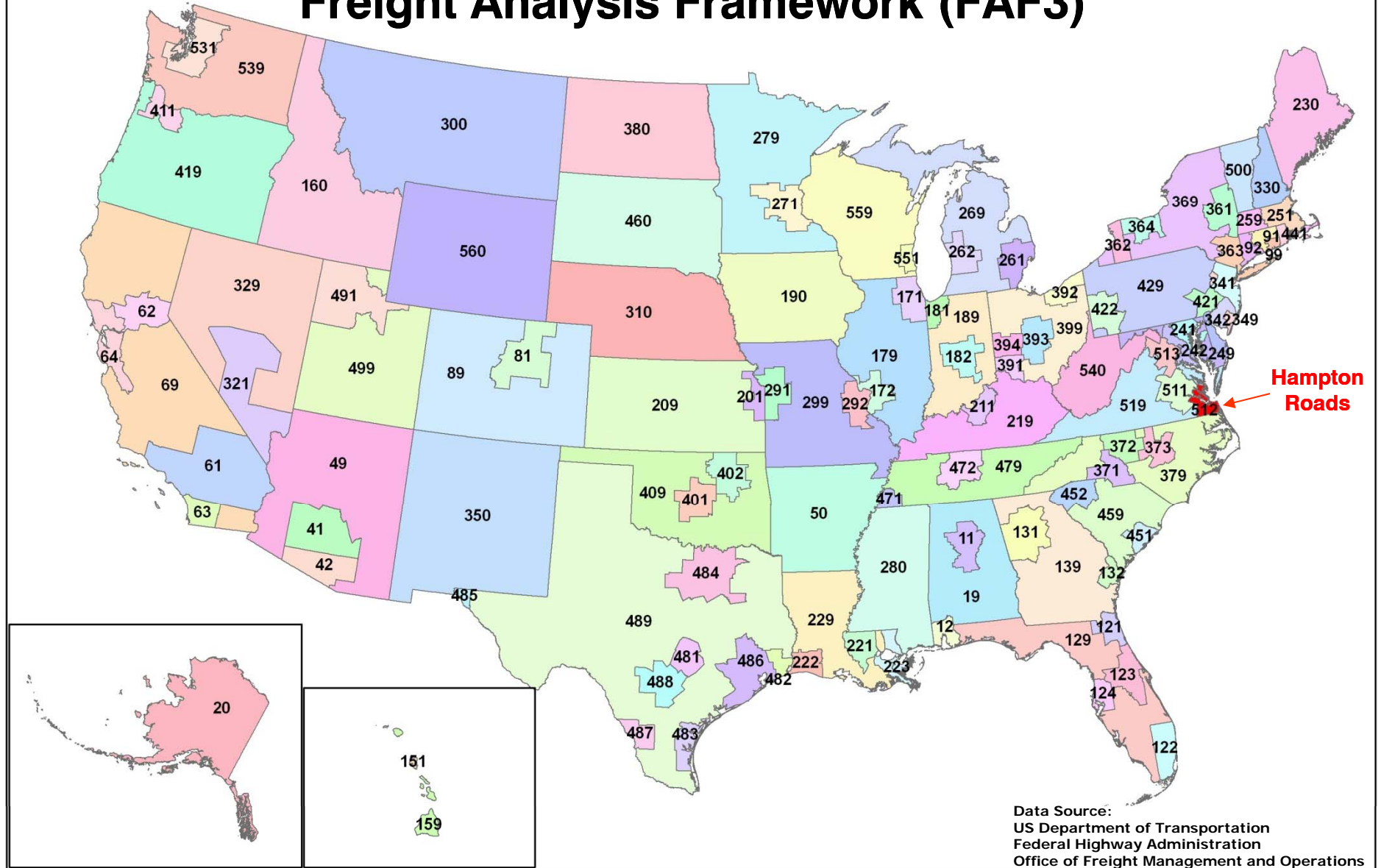


Commodity Flows – Freight Analysis Framework (FAF3)

- Nationwide freight database by FHWA
- Comprised of several data sources, such as:
 - US Commodity Flow Survey (100,000 shipping establishments)
 - PIERS data (imports/exports)
 - Carload Waybill Sample
 - US Air Freight Movements
- FAF3 database:
 - Existing Year (2010) and Projected Year (2040)
 - 7 modes (Truck, Rail, Water, Air & Truck, Multiple modes/mail, Pipeline, Other & Unknown)
 - 43 commodity types
 - 123 domestic areas and 8 world regions
 - Tons & Dollar Value



123 Domestic Areas for Freight Analysis Framework (FAF3)

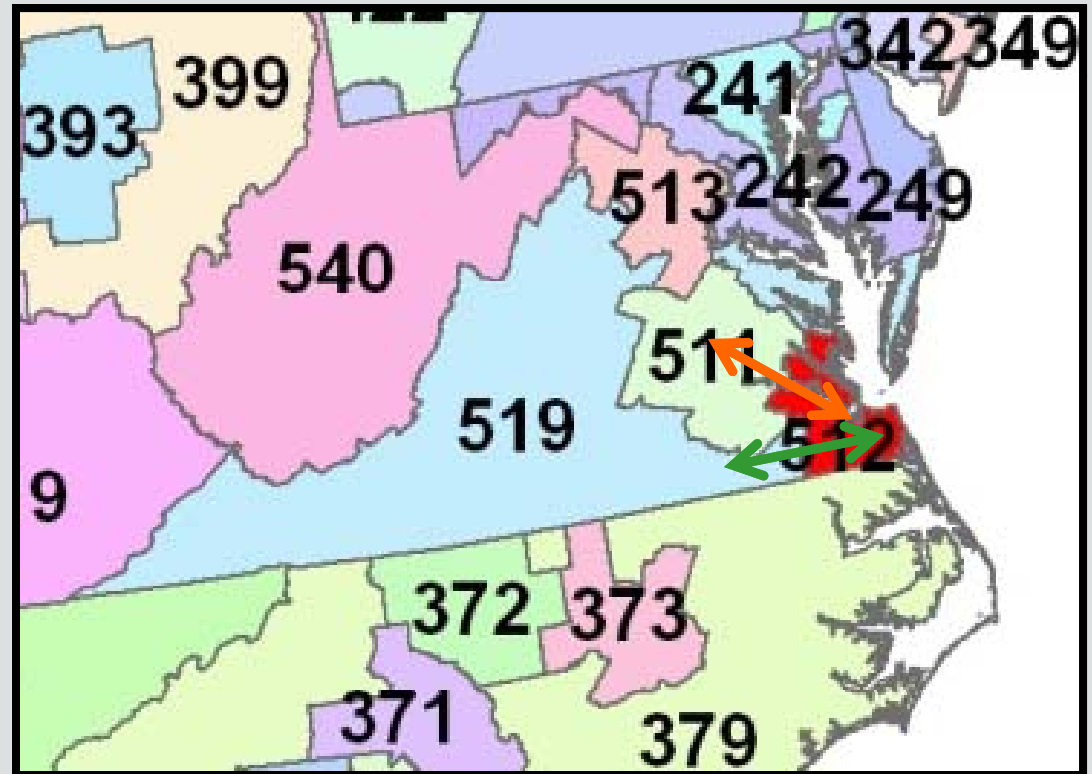


Using FAF3 to Estimate Commodity Flows by Hampton Roads Truck Corridor

Plan: Estimate commodity flows by corridor via assignment of each domestic area to a HR Truck Corridor.

HR Truck Corridors:

1. Route 58
2. James River Corridor (I-64 and Route 460)
3. Unknown (due to large size of some areas)



Summary of Freight Movement To, From, and Within Hampton Roads

**(Example from
2007 Update)**

	2004	2005
Tonnage		
Truck	86,650,924	217,603,175
Rail	40,120,461	102,279,955
Air	44,486	133,996
Water	18,068,706	35,364,923
TOTAL	144,924,320	355,386,717
Dollar Value		
Truck	\$ 303,193,247,182	\$ 1,246,863,074,934
Rail	\$ 24,820,989,652	\$ 110,970,471,893
Air	\$ 464,857,522	\$ 2,901,373,066
Water	\$ 2,251,954,347	\$ 5,799,685,438
TOTAL	\$ 330,749,326,580	\$ 1,366,534,605,331

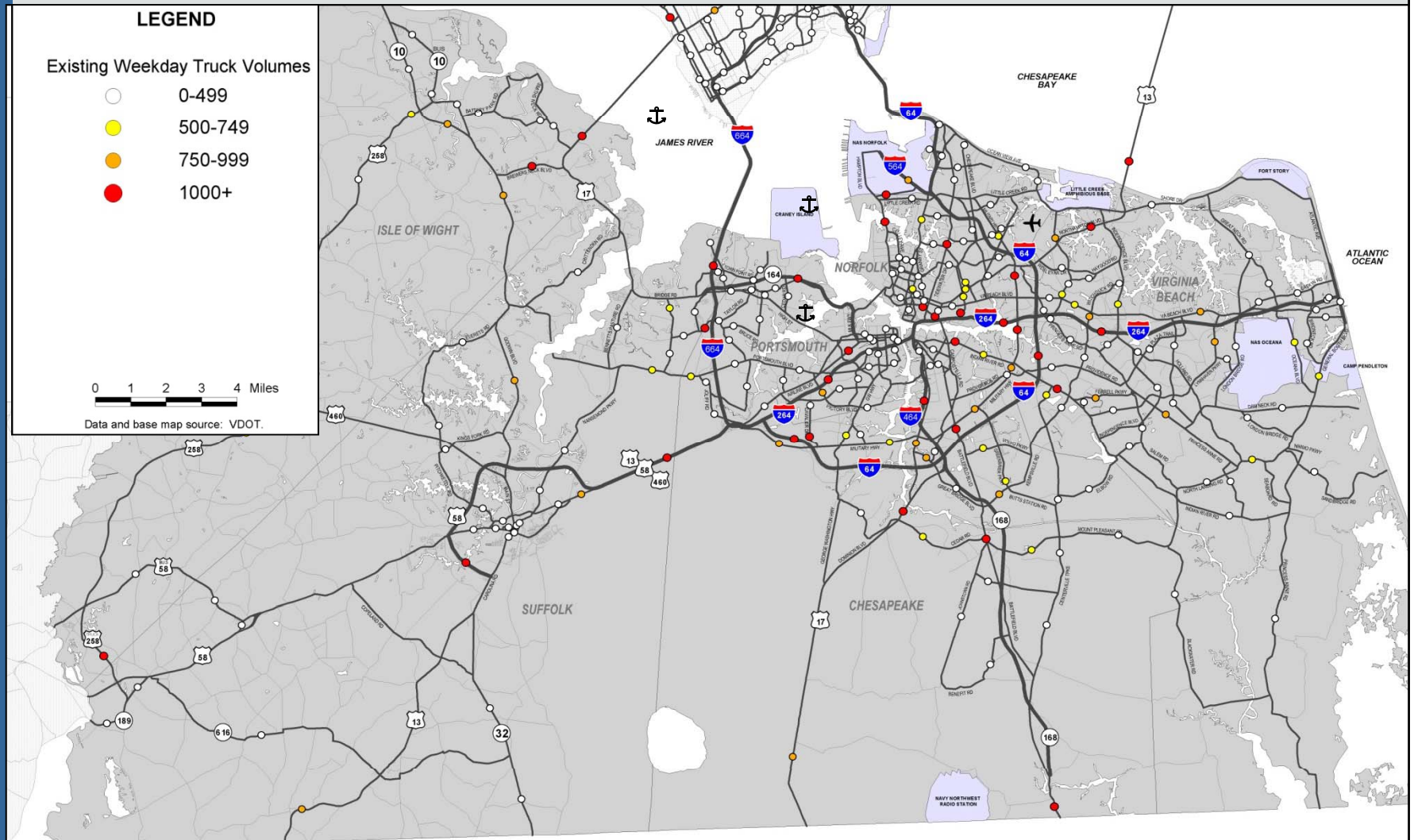
Data source: Global Insight Transearch Database

	2004	2005
Dollars Per Ton		
Truck	\$ 3,499	\$ 5,730
Rail	\$ 619	\$ 1,085
Air	\$ 10,450	\$ 21,653
Water	\$ 125	\$ 164
TOTAL	\$ 2,282	\$ 3,845



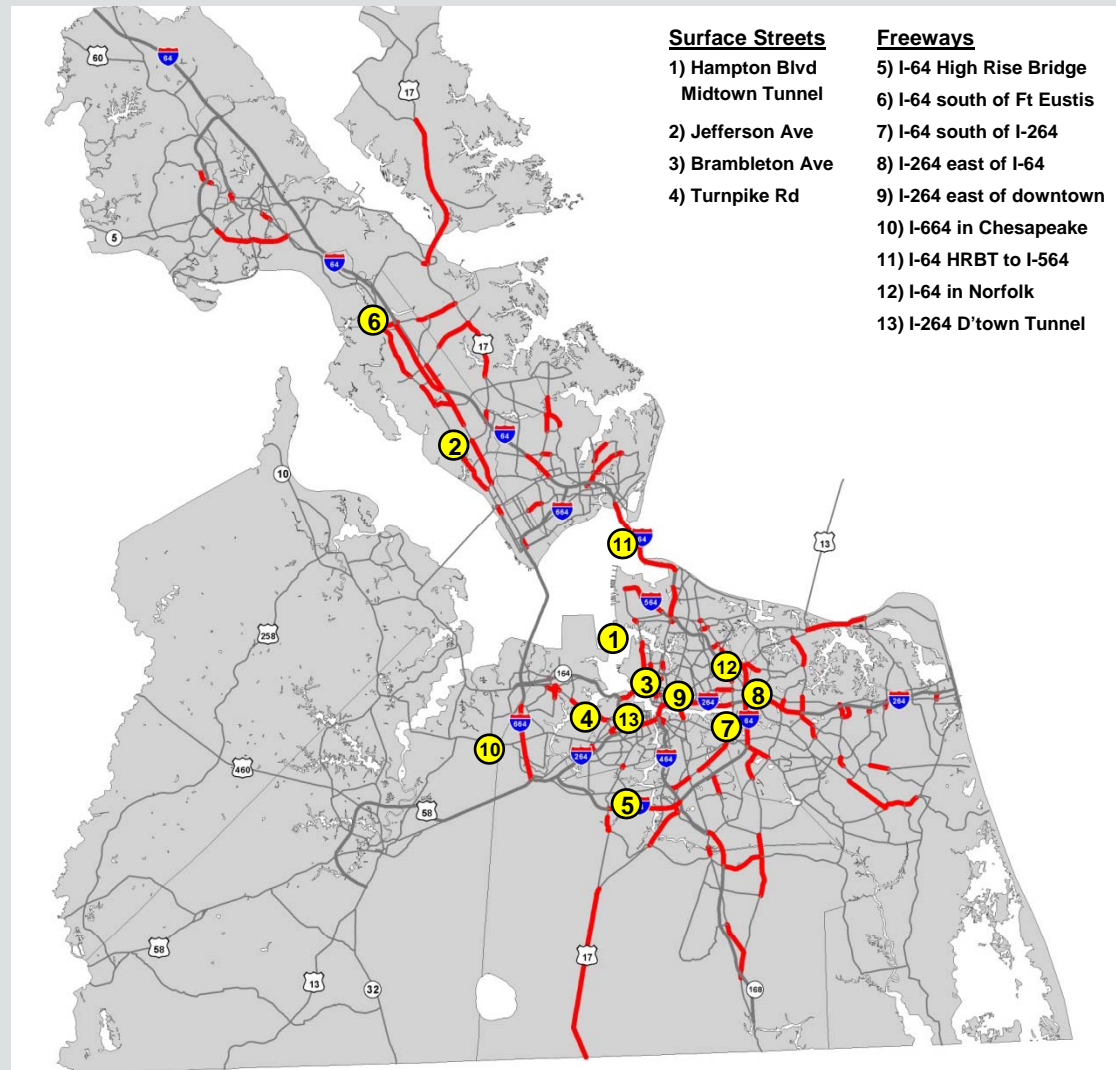
Daily Volume of Trucks – HR Southside

(Example from 2007 Update)



Regional Freight Bottlenecks

PM Peak period (Example from 2007 Update)



FTAC Comments/Input

- Any comments on what has been proposed for the Regional Freight Study?
- Are we missing any critical elements?

