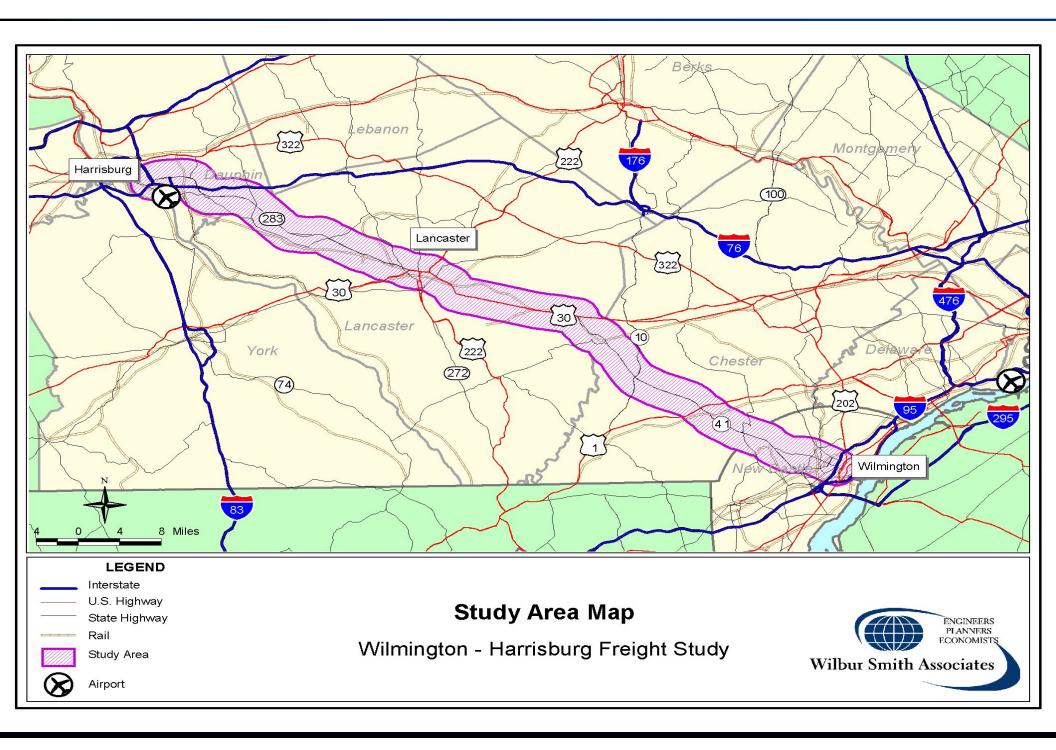
Wilmington-Harrisburg Freight Study



Presentation to the Delaware Valley Regional Planning Commission April 16, 2003





Retail, Residential

Farming

Small Towns







Manufacturing



Tourism



Warehouses/DC



STUDY GOAL

To more efficiently move freight in the Wilmington-Harrisburg Corridor, with special consideration for...



Safety Issues

- Car/Truck Interactions
- Horse & Buggy/Traffic Interaction
- Increasing Traffic Volumes (Year round)
- Roadway Geometry/Conditions (Rt. 41 & 30)







Quality of Life

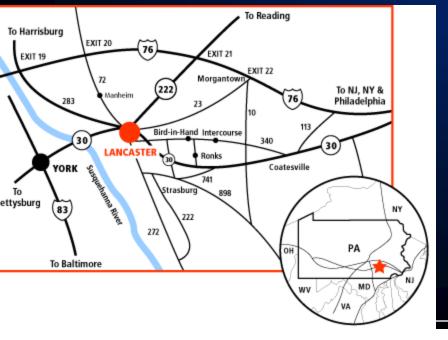


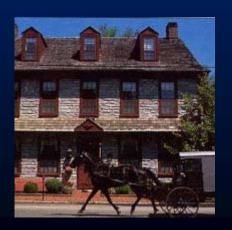








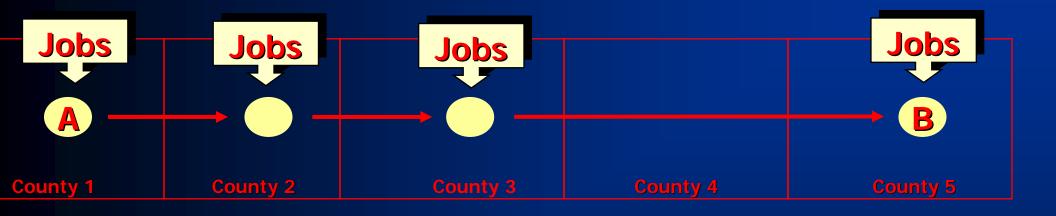








Economic Growth



Freight markets transcend boundaries



Competitive
Distribution
System (Ports, others)



Project Team

Wilbur Smith

Lancaster
County Planning
Commission

Steering Committee

Reebie Associates Martin Associates



PROJECT FLOW CHART

Task 1
Project Description & Corridor Definition

CURRENT

Task 2: Assemble Freight Data

Task 3: Analyze Existing Conditions

Tech Report # 1
Understanding the Current Corridor

FUTURE

Task 4: Forecast Freight Data

Task 5: Future Issues and Constraints

Tech Report #2
Projecting the Future of the Corridor

SOLUTIONS

Task 6: Alternative Scenarios

Task 7: Final Recommendations

Final Report
Wilmington – Harrisburg Corridor



Average Annual Trucks Per Day Averaged Over All Road Segments in the Corridor

Rte 41 – 3,331

US 30 - 14,001

PA 283 - 8,880



Delaware River Port Traffic Using the Corridor

280 Daily Truck Trips





Port of Wilmington – 70% Local to Corridor

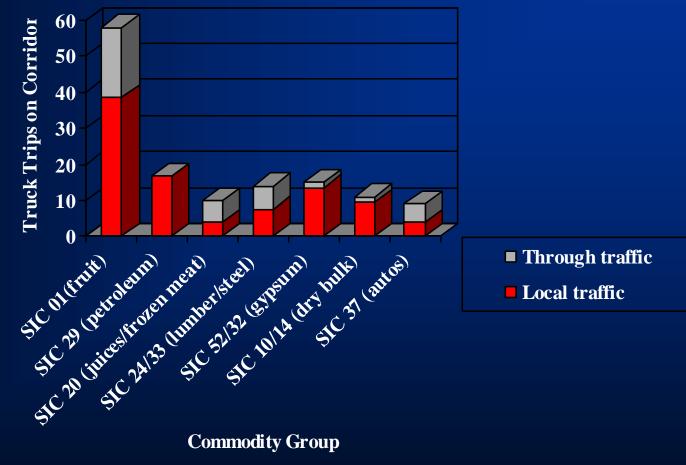
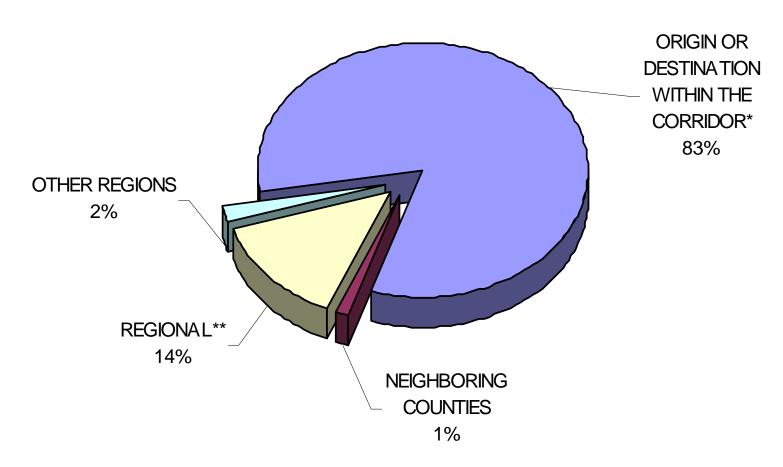






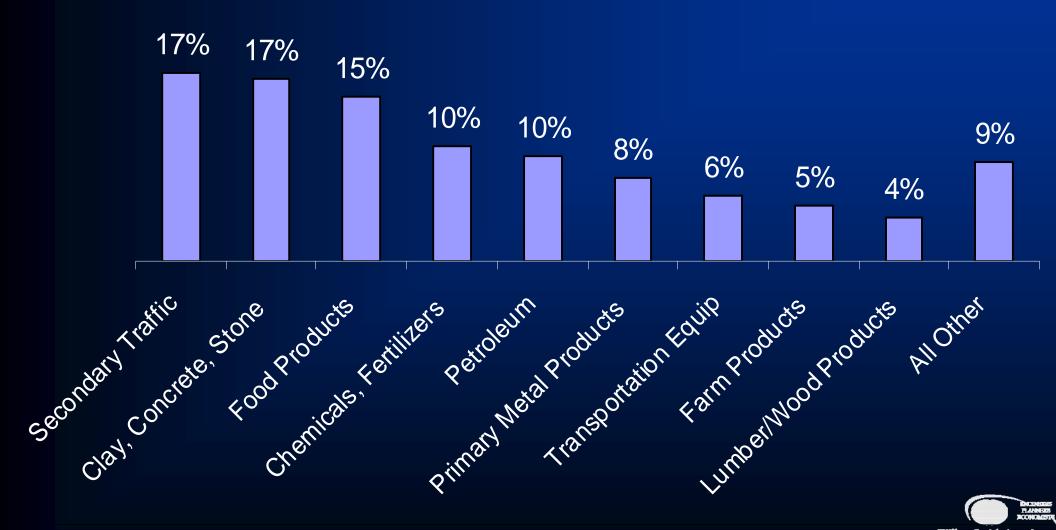
Exhibit 2-2 Distribution of Traffic Base-Year Non-Port Freight Volumes on Corridor



^{*} Includes traffic originating or terminating in New Castle County, DE; and Chester, Lancaster, or Dauphin Counties

** The remainder of PA, DE, and Southern NJ.

Distribution of All Commodities on Route 41 (Percentages Based on Tonnage)



Potential For Corridor Traffic Diversions

	Base	Long-Haul	Pct
Rte 41	3,331	1,125	33.8%
US 30	14,001	1,522	10.9%
PA 283	8,880	1,522	17.1%



What does the data tell us?

Port Truck Traffic – Small Role

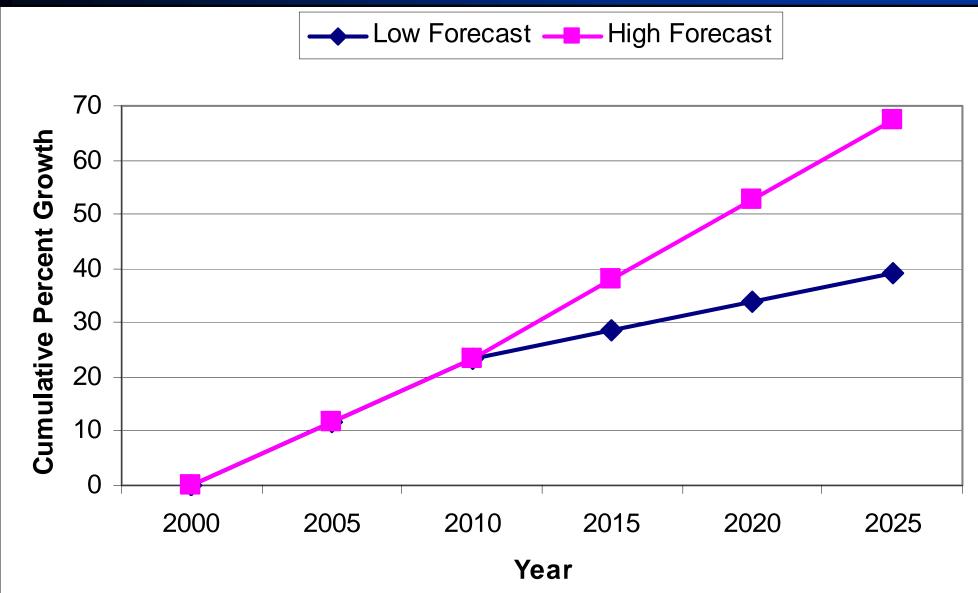
- Seasonal traffic FRUIT
- Not extremely divertible
- Mostly local not long haul

Overall Truck Traffic – Significant Role

- Food, secondary traffic, construction materials
- Bulk is to/from New Castle County
 - Wilmington/Newark
- Much is local.....but
- Significant long haul densities



Forecasts





Growth in Freight Traffic

- 0.62% annual population growth
- 23% total growth in freight by 2010
- 40-69% total growth in freight by 2025

What does this all mean?

Nothing on Horizon to Shift Patterns

- No major modal shifts (Shellpot Bridge?)
- No major route shifts
 - TIP's mostly reconstruction, maintenance
 - Major plans (bypasses, I-95/PA TPK) are in early planning



Scenarios

- <u>Railroad Scenario</u> explores the extent to which investment in the railroad system can provide a more efficient transportation network in the Corridor.
- Shipper Scenario gain a better understanding of the supply chain patterns of key shippers and identify potential strategies for improved freight flow.
- Proposed Local Improvements look at the combination of local proposals along the Corridor to examine their impact on freight movements.
- Pennsylvania Turnpike Scenario explore what is required to entice through trucks to use the PA Turnpike, rather than the shorter, toll free route over the Corridor.

Local Traffic

Through Traffic



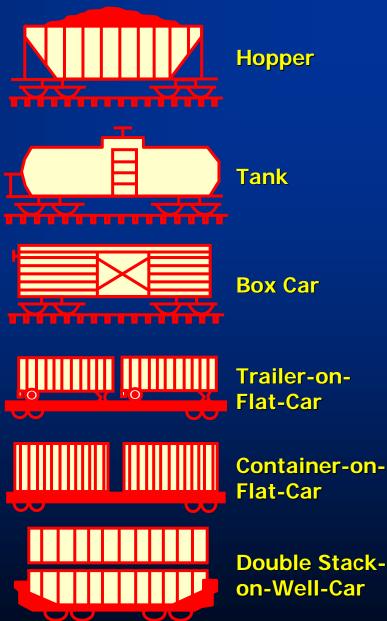
Rail Scenarios

Dedicated Rail Freight Mainline Adjacent to NEC

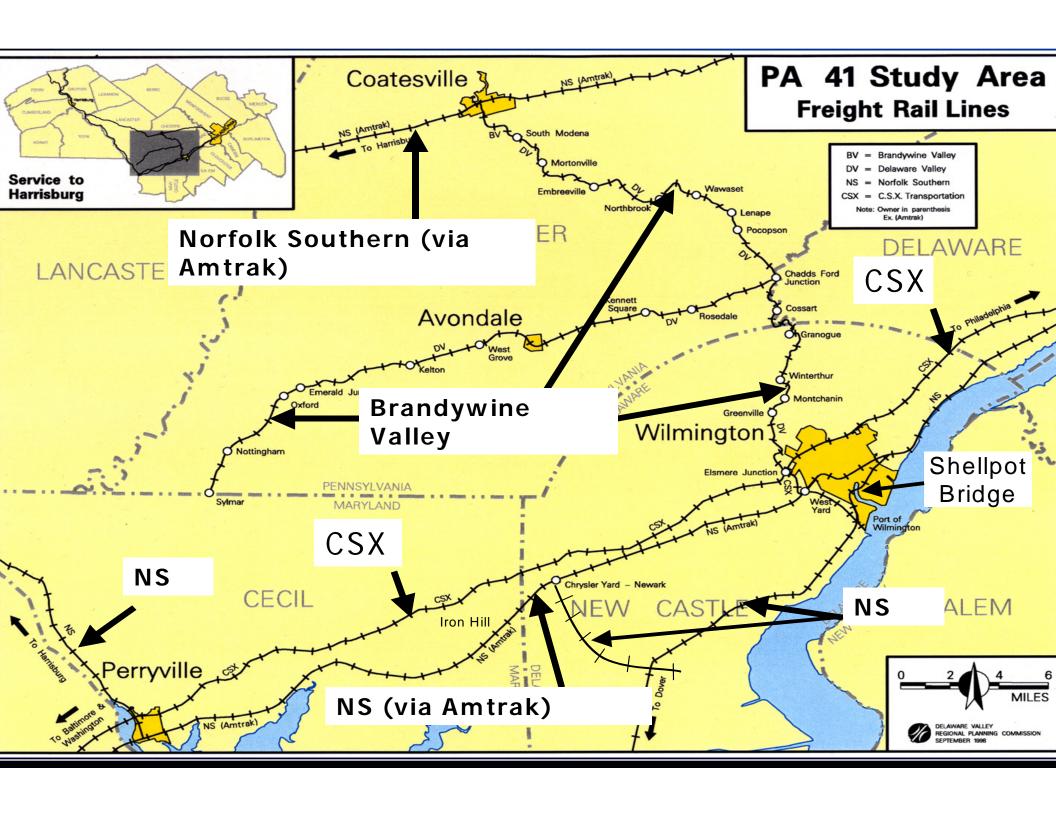
New Castle County Intermodal Terminal

Brandywine Valley Railroad

Shellpot Bridge







Shipper Scenario "Community Friendly Logistics"

- Many shippers have sophisticated logistics programs
 - Wal-Mart
 - Home Depot
- Target small to mid-sized shippers
 - Promote best practices
 - Off-peak deliveries
 - Logistics webs
 - DCs for converting between local pick-up/deliveries and long-haul
- Public sector role in CFL
 - Educator of best practices
 - Facilitator of enhanced communications
 - Provider of infrastructure and freight facilities
- Under CFL, public sector involved in planning and operations

"Community Friendly Logistics" Different Goals – Common Solutions

	Carriers	Shippers	Communities
Consolidating Loads	Reduces fleet size, fleet costs	Reduces per unit transportation costs	Reduces number of trucks
Identifying Backhauls	Reduces non- revenue miles	Reduces one- way rates	Reduces number of trucks
Reducing Transit Times	Reduces fleet size, fleet costs	Reduces inventory carrying costs	Reduces congestion, air pollution



Proposed Local Improvements Scenario

- Improving Freight Traffic Flow
 - U.S. 30 Corridor Improvements
 - Route 41 Improvements
- Managing Freight Traffic Flow
 - Through Truck Ban
 - Traffic Calming
 - Enhanced Enforcement (speed, weight)



Pennsylvania Turnpike Scenario

 Value Pricing Study Between Exit 19 (Harrisburg) and Exit 23 (Downingtown)

Longer Combination Vehicles (LCV)





Future of the Wilmington-Harrisburg Freight Study Steering Committee

- Need to continue working together to progress the ideas in this study
- Need to add shippers to the committee
- Need to adopt a goal and set of objectives for freight movement in the Corridor



DVRPC (Role within Steering Committee/Local Impact)

- Rail Freight Line along NEC (Support/Medium)
- New Castle County Intermodal Terminal (Support/Medium)
- Brandywine Valley RR (Lead/Medium)
- Industry Solutions Community Friendly Logistics (Lead/Medium)
- U.S. 30 Improvements (Monitor/High)
- PA 41 Improvements (Lead/High)
- Truck Ban (Monitor/High)
- Traffic Calming (Monitor/High)
- Increased Speed/Weight Enforcement (None/Low)
- PA Turnpike/Tolls (Support/Low)
- PA Turnpike/LCV's (Monitor/High)



Conclusion

No <u>one</u> magic solution....

....many <u>partial</u> solutions

