

# **HAZARDOUS MATERIALS COMMODITY FLOW STUDY**

# Percentage Of Haz Mat Moved In The U.S. By Mode

TXDOT HB 160 Study Report 1 March 2008

- ▣ Trucks move approximately 43% of all hazardous material tonnage shipped in the U.S.
- ▣ Rail moves approximately 4%
- ▣ Pipelines, water, and air transport account for the remaining 52%

# Percentage Of Haz Mat Moved In Texas By Mode

FHWA/TXDOT Haz Mat Movement Study Report August 2009

- ▣ Trucks move approximately 28% of all hazardous material tonnage shipped in Texas
- ▣ Rail moves approximately 8%
- ▣ Pipelines, water, and air transport account for the remaining 64%

# Percentage Of Haz Mat Originating/Terminating In Texas Cities

FHWA/TXDOT Haz Mat Movement Study Report August 2009

- ▣ Houston – 52%/53%
- ▣ Dallas – 3%/7%
- ▣ San Antonio – 2%/3%
- ▣ Austin – 1%/1%
- ▣ Remainder – 42%/36%
- ▣ Austin is below average in rail shipments in comparison to the rest of the state and nation due to:
  - Location of origin and termination of most shipments
  - Higher speed alternative routes
  - Location of regional pick up/transfer/drop off points

# Percentage Of Haz Mat Moved In Austin By Mode

FHWA/TXDOT Haz Mat Movement Study Report August 2009

- ▣ Austin percentages are estimated to more closely represent U.S. percentages due to:
  - Location of origin and termination of most Haz Mat shipments by rail in Texas
  - Higher speed alternative rail routes around Austin
  - Location of railcar pick up/transfer/drop off points in relation to Austin
  - Fewer major pipelines in and through Austin
  - Lack of ports or viable navigable waterways

# **Hazardous Materials Commodity Flow Study**

A Hazardous Materials Commodity Flow Study (CFS) looks at where, when, how, and what types of hazardous materials are transported within or through a jurisdiction

# Hazardous Materials Commodity Flow Study

## Regional History:

- ▣ Last Commodity Flow Study conducted in Austin/Travis County occurred in 2000
  - 32 road segments were observed
    - ▣ 19 Primary - U.S. and State Highways
    - ▣ 13 Secondary - Local Streets and County Roads
  - Total directional hours invested - ?
  - Total cost approximately \$12,000
    - ▣ \$7450 in grant funds
    - ▣ \$1490 in required 20% matching funds
    - ▣ Approximately \$3000 in ancillary costs (paper, fuel, FTE assistance, etc.)

# Hazardous Materials Commodity Flow Study

## Regional History:

- ▣ Williamson County just completed one
  - 21 road segments were observed
    - ▣ 16 Primary - U.S. and State Highways
    - ▣ 15 Secondary - Local Streets and County Roads
  - Total directional hours invested – 611.5
  - Total cost approximately \$68,174
    - ▣ \$54,539 in grant funds
    - ▣ \$13,635 in required 25% matching funds



# Hazardous Materials Commodity Flow Study

- ▣ Estimated Cost to Conduct a Commodity Flow Study in Austin/Travis County
  - \$100,000 - \$150,000

**QUESTIONS?**