

“...disaster aware and disaster prepared.”



The Commodity Flow Study: Challenges, Tips, and Best Practices



Session Overview



- What is a Commodity Flow Study?
- Why you should do one
- Data use
- Getting it done
- How often
- Best Practices/Good ideas!

EM Functions



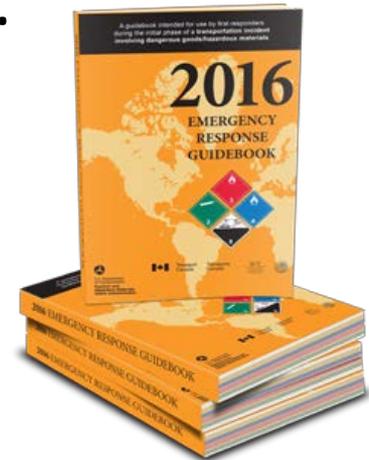
- Day-to-Day Activities
- Management challenges
- Transportation accidents/incidents
- The next “case study?”
- Adding to the “pile”



Commodity Flow Survey



- What it is?
 - A Hazardous materials commodity flow Study identifies the types and amounts of hazardous materials transported into, out of, within, and through a specified geographic area...



Commodity Flow Study



- Why do a flow Study?
 - Evaluating safety risks
 - Analyzing trends
 - Forecasting demands for movement of goods
 - Determining needs for infrastructure

Commodity Flow Study



- Why should you do one?
 - Practical preparedness!
 - ?



Commodity Flow Study



- Common uses of the data
 - analyzing trends in goods movement over time;
 - conducting economic analysis;
 - developing models for management and investment decisions;
 - forecasting future demand for goods movement and associated infrastructure and equipment needs;
 - analyzing and mapping patterns of commodity and vehicle flows.

Commodity Flow Study



- Who can use it?
 - Emergency Management
 - First Responders
 - First Receivers
 - LEPC
 - Public Works
 - Community Stakeholders
 - Others?

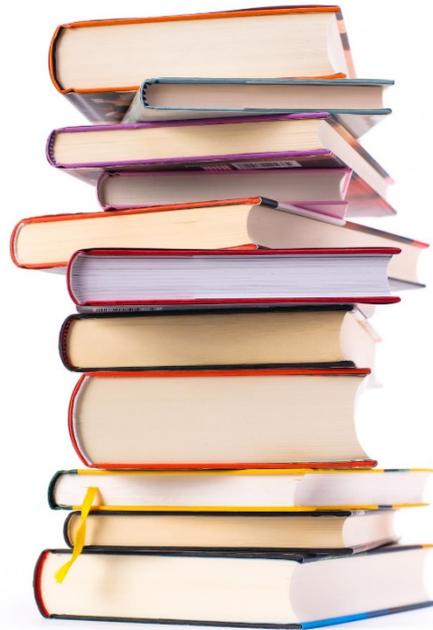
Commodity Flow Study



- For what purposes?
 - Planning
 - Training
 - Exercise
 - Equipment purchases
 - Other?



The Study



Commodity Flow Study



- Getting it done, “*The Basics:*”
 - The Outcome (The Product)
 - The Bid (RFP)
 - The Evaluation
 - Repeat?



Commodity Flow Study



- The Outcome:
 - Overview of the jurisdiction including transportation infrastructure
 - Planning recommendations regarding the transportation of hazardous materials
 - Traffic counts including the type and amount of hazardous materials moving within or through each jurisdiction

Commodity Flow Study



- The Outcome (cont.):
 - List of sources, purchasers, producers, storage facilities of hazardous materials
 - Maps of traffic of hazardous materials movement representing routes, modes, specific types of materials, fixed handling facilities
 - List of data sources used as the basis of the analysis

Commodity Flow Study



- The Bid Process (RFP)
 - Talk to other EM's who have done flow Study (pitfalls, vendors, etc.)
 - Include the stakeholders in the decisions
 - Involve policymakers
- Grant Assistance...

Commodity Flow Study



- Grant Assistance
- How to...
- Grant application contains guidance for spec to include final product



Commodity Flow Study



- Evaluating the product:
 - Did it meet the scope of work?
 - Understandable format designed for the receiver
 - Have finished product reviewed by local trusted experts



Commodity Flow Study



- How often should it be done?
 - Every five years (recommended)
 - New transportation routes/ methods
 - Population/geography changes
 - Product changes (new products/hazards)
 - Compare, with earlier versions, trends (training, equipment, planning, grants)



Wash,
Rinse,
Repeat

Commodity Flow Study



- The Great Reveal:
- What's actually coming through our jurisdiction
 - Volume was unbelievable!
 - The Study process was very time consuming
 - Surprising locations affected by the flow of materials
 - Exposure of vulnerable population



Best Practices/Great Ideas!

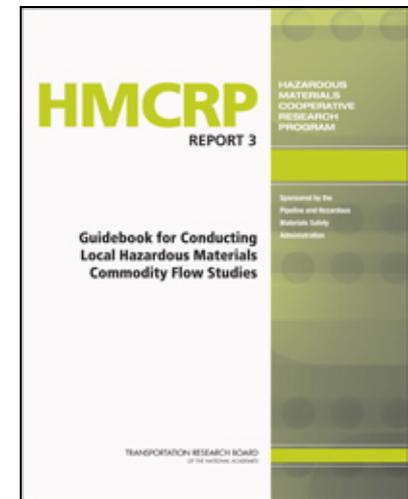


**Before,
During,
and After**

Commodity Flow Study



- Before
 - Select your team of stakeholders
 - Review guidance for conducting flow studies
 - Review
 - Changes to zoning, new facilities, etc.
 - Population/residency shifts
 - Changes to infrastructure



Commodity Flow Study



- Before (cont.)
 - Consider, if you use volunteers...!
 - Commitment
 - Training
 - Liability
 - Other



Commodity Flow Study



- During
 - Get frequent progress updates from contractor
 - Share progress reports with stakeholders
 - Assure grant reporting requirements are met



Commodity Flow Study



- And, After
 - Include LEPC's in flow Study results
 - Check and verify demographic information
 - Census.gov
 - Verify traffic counts (smell test?)
 - /hr. vs /day



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Questions?

Comments?