

# Energy Division

Ward Lenz, Director

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# Energy Division

- Economic Development
- Utility Savings Initiative
- Weatherization Assistance Program
- State Energy Program
  - Multiple program areas
- Energy Assurance/Emergency Preparation

# Economic Development

- “All of the above” strategy
  - Top state in creation of clean energy jobs
  - Top 3 in smart grid employment
  - Triangle and Charlotte area clusters
  - Local economic value

# USI Snapshot

## Program highlights:

- **\$120 million in avoided utility cost FY 2011-12**
  - **Need \$2 billion GSP to accrue \$120 million revenue**
- We serve 14 agencies, 21 UNC institutions, 58 community colleges, 115 K-12 school systems, 100 counties and 548 municipalities
- Site visits and technical assistance provided:
  - FY 2011-12 conducted 675 in 80 counties
  - To date 500 site visits in 58 counties
  - Reduction in counties served due to staff reduction

# USI Snapshot

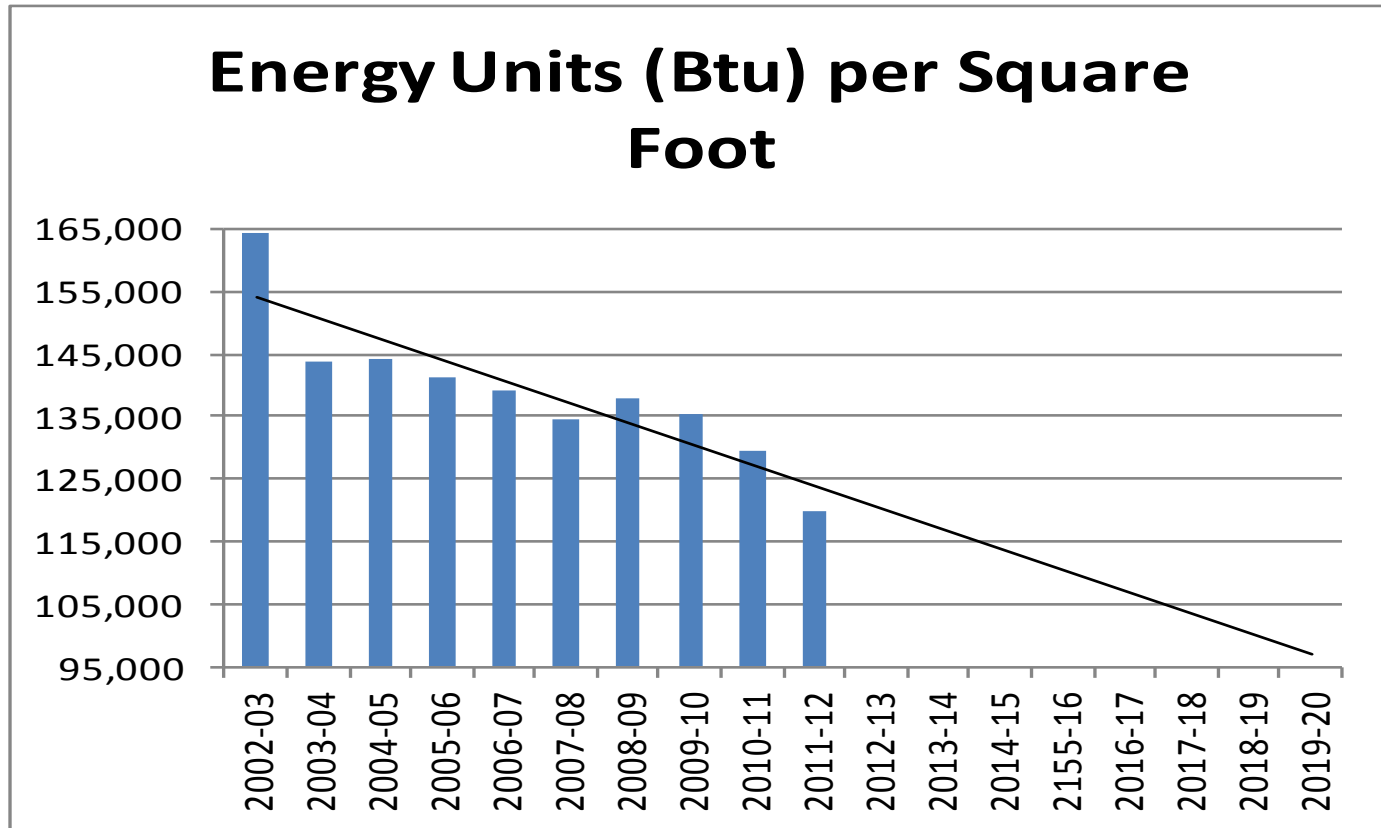
## Performance contracting:

- Since program start in July 2002 ~ \$ 12 million in appropriated funds leveraged ~ \$436 million in private financing
- Since 2006:
  - ~ \$ 161 million completed or in construction state agencies and UNC institutions
  - ~ \$ 80 million completed or in construction local governmental units
  - **~ 1,080 employed on above projects**
- USI providing technical support and document review to:
  - 23 projects in process worth ~ \$ 170 million
  - Potential project employment 765

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# USI Energy Savings Results



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# What we find...



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# And dangerous



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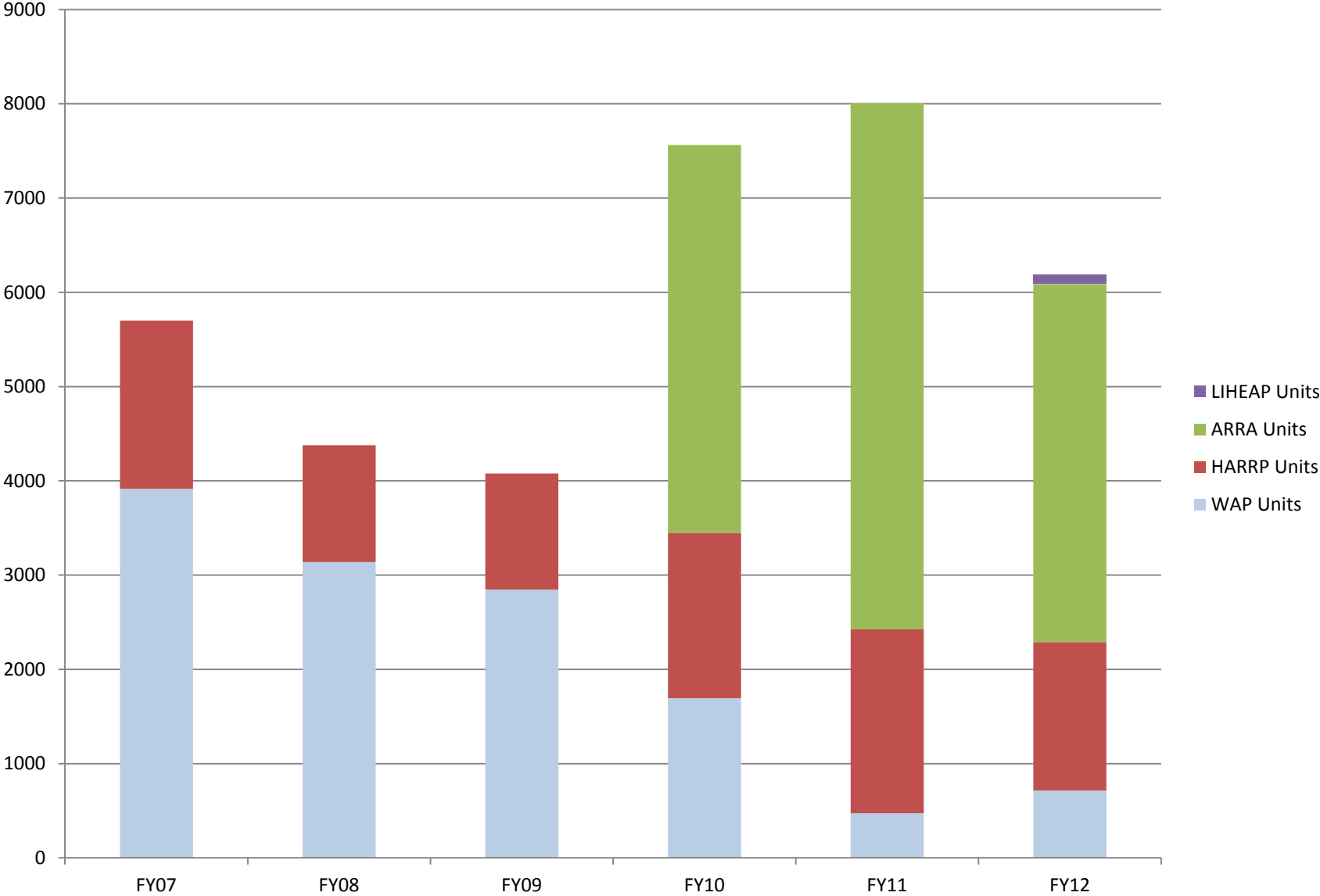
# Weatherization Assistance Program

- Program Established: mid 1970's
- Funding Sources:
  - US Department of Energy
  - US Department of Health and Human Services (DHHS) through NC DHHS Low Income Home Energy Assistance Program (LIHEAP)
- 2012 Performance Metrics:
  - 4,493 homes weatherized/energy systems repaired or replaced
  - 13,395 citizens received services
  - \$44,295,155 in funds expended
  - 302.67 Jobs/FTEs
  - 88,999 MMBTUs estimated weatherization energy savings

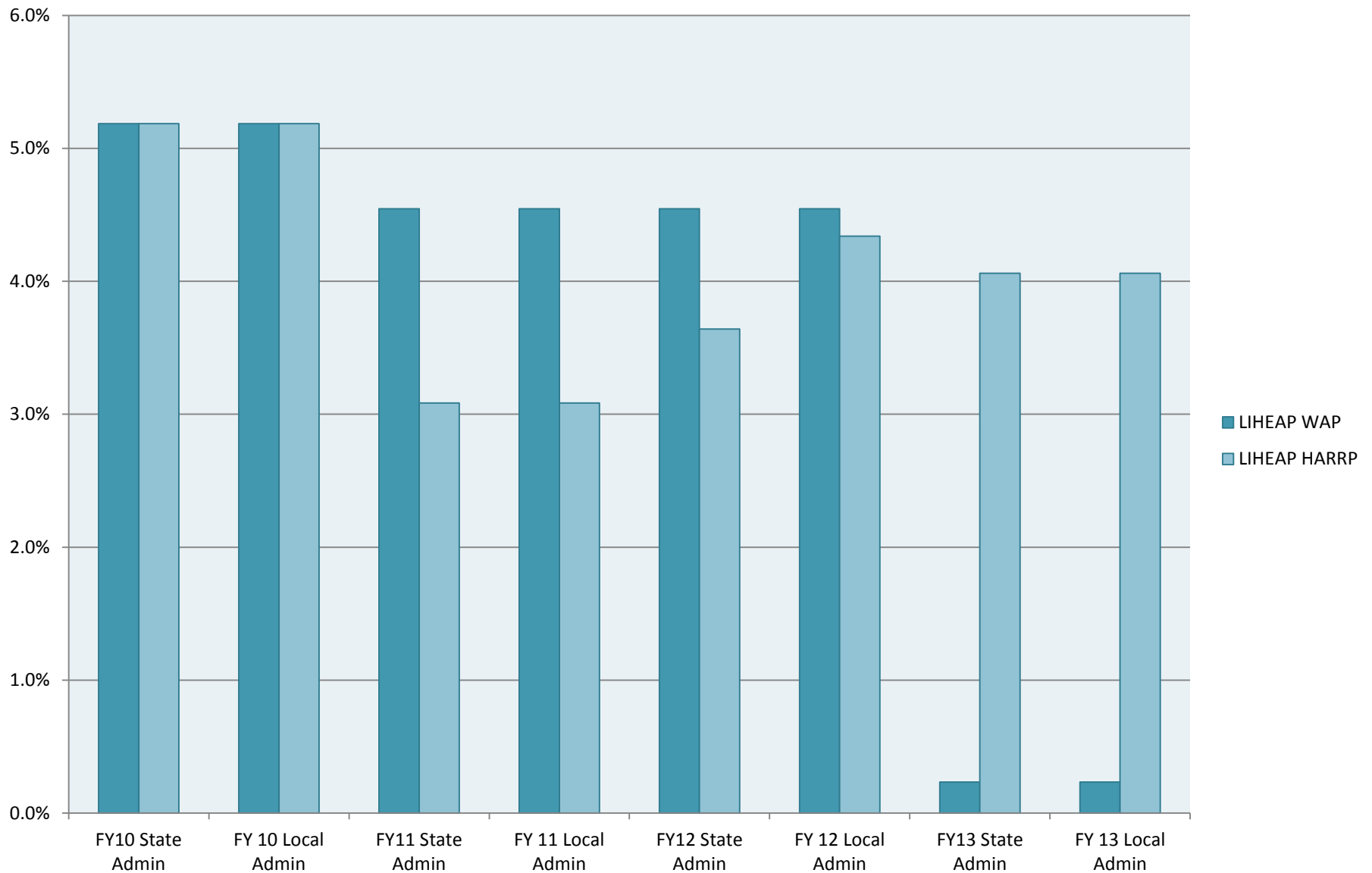
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# Units Completed by Year



## LIHEAP Administration Percentages FY10 - FY13



# State Energy Program

## Funding Sources:

- US Department of Energy (~\$1M annually)
- Federal Petroleum Violation Escrow Settlement funds (~\$4.5M remaining)
- State Appropriations (~\$800,000 annually excluding Energy Centers)

## Program Areas:

- Energy Assurance/Emergency Preparation
- Alternative Fuels Transportation
- Annual Conference
- Energy Efficiency and Renewable Energy Programs (#2 in country)
- Awareness and Marketing

## 2012 Performance Metrics:

- Over 464 billion total source BTU saved (= 3,266 homes)
- 213 Buildings audited and/or retrofitted w/ total sq. ft. of 9,282,848
- Buildings audited and retrofitted from the following sub program areas:  
state agencies and universities; Main Street communities; local  
government entities; commercial and industrial facilities

# Energy Assurance/Emergency

**The SEO is the state's lead technical agency for energy emergencies, and works with public and private agencies to provide personnel and technical assistance to the State Emergency Response Team (SERT).**

## Why plan for energy emergencies?

- Energy disruptions damage the state's economy
- Rapid fluctuation in energy costs strain government budgets
- Planning and preparedness improve our ability to provide core services during disruptions
- Compliance with state and federal laws and best practices

## What are we doing now?

- Improving response plans and contingency plans for future disruptions
- Collaborating with energy industry stakeholders to enhance preparedness and response plans
- Conducting regular exercises to test and critically examine processes and procedures
- Developing energy emergency planning tools for counties and municipalities
- Providing training to county and municipal governments
- Producing tools to share energy information with SERT partners & others

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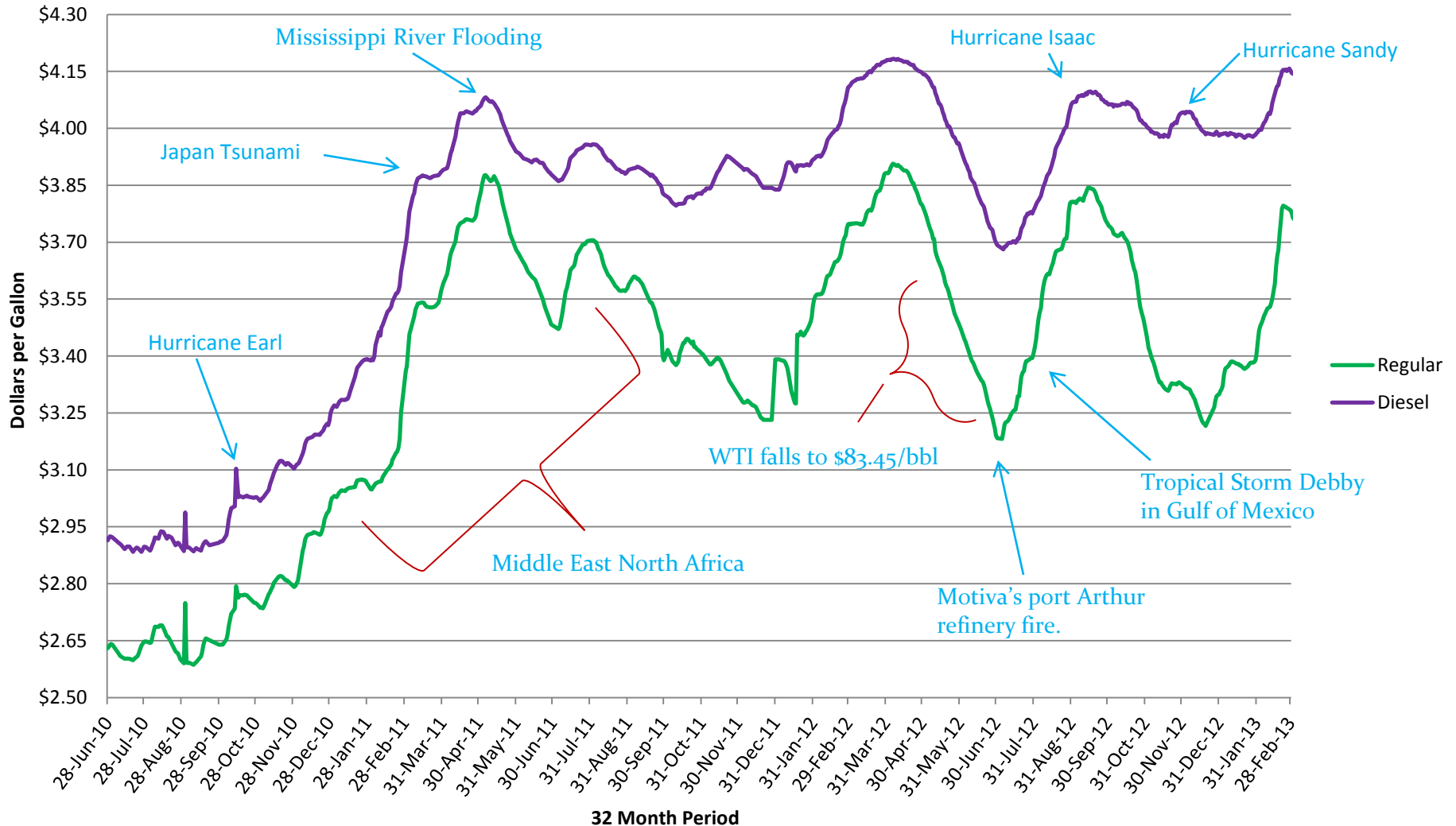
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# Identify Price Issues

AAA Consumer Pricing

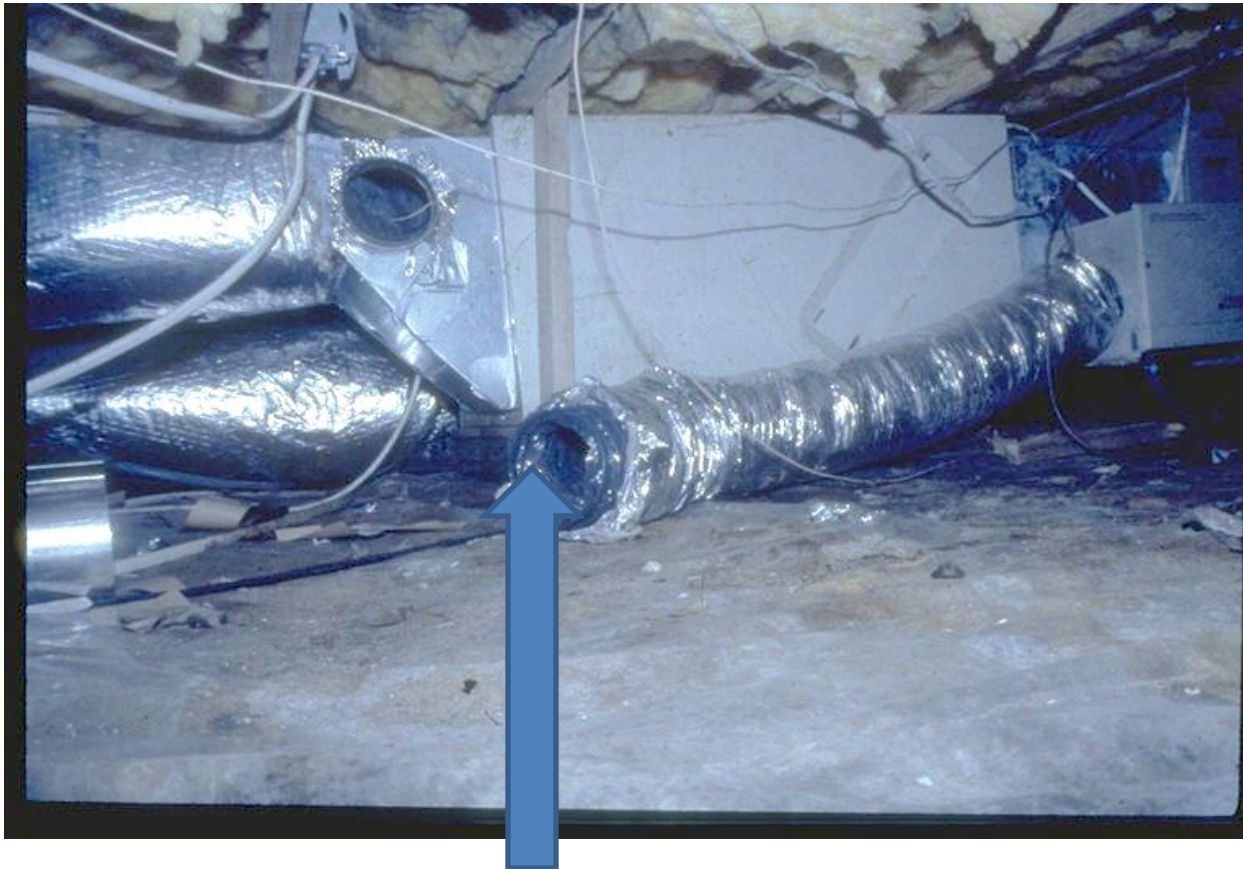
Daily Reporting (State Averages)

Source: <http://www.fuelguagereport.com/sbsavg.html>



# Things we find

- Duct air tightness



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R Value = 1 (should be 30+)



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# Fire and Ice



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