AD ASTRA PER ASPERA

Kansas

Corporation Commission

What's New in Gas Industry Safety – Recent Incidents

Forming Partnership.
Delivering Results.
www.skw-inc.com

Presented by Curtis "Skip" Blake
Shafer, Kline & Warren
blake@skw-inc.com

Experience

- **40 years Natural Gas Industry Distribution and Transmission**
  - **Engineering , Corrosion Control, Facilities Planning and Design**
  - **6 years Gas Transmission/ Integrity Project Management**
- **6 Years as Shafer, Kline and Warren Safety Officer**
  - **NCCER/Veriforce OQ Trainer & Evaluator**
  - **OSHA General Industry & Construction Trainer**
  - **American Red Cross First Aid, CPR, & AED Trainer**

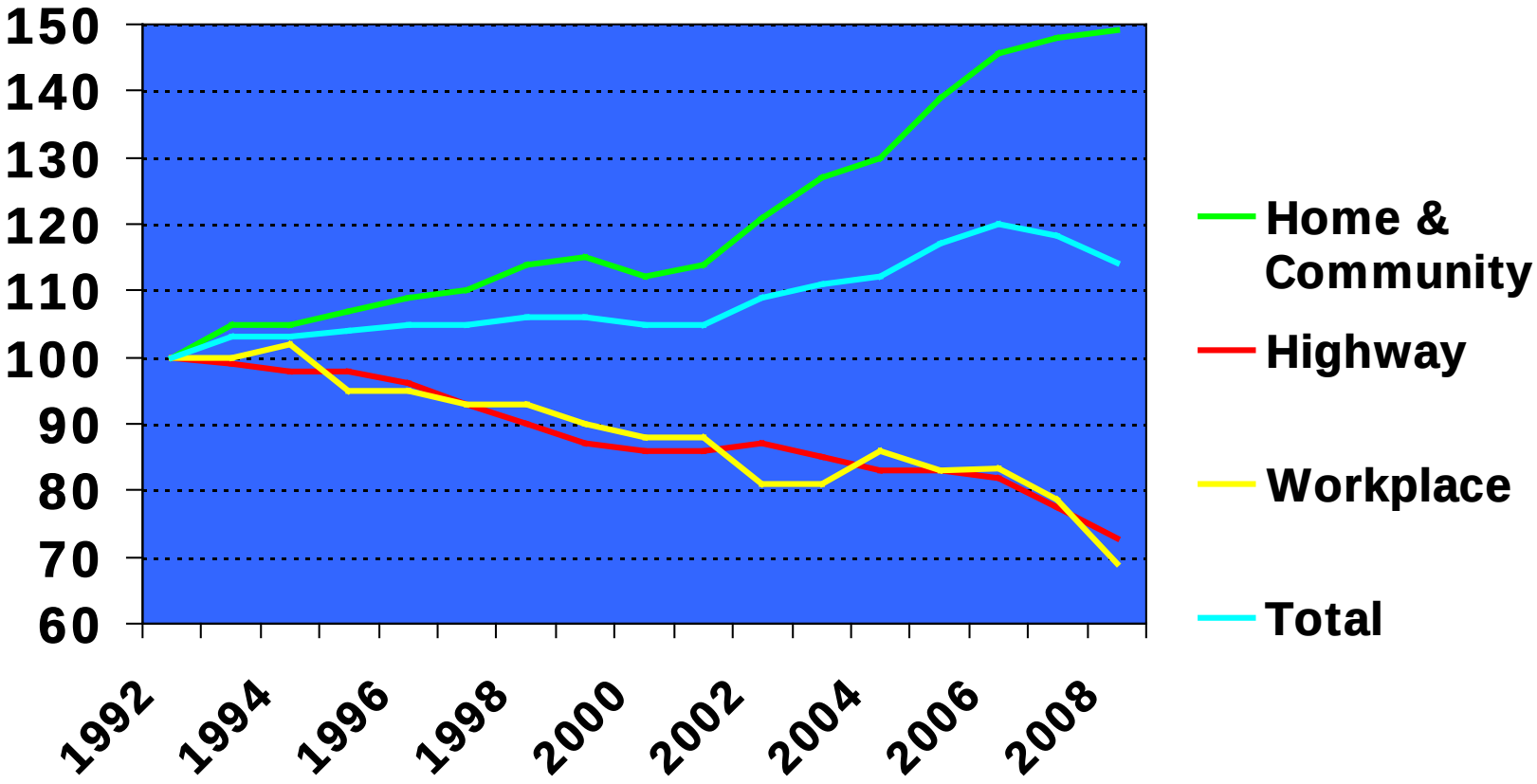
National Workplace Statistics

- **~13 People Die Every Day at Work**
  - **5,214 Workers Died on the Job in 2008**
    - **4551 in 2009 down 11%**
    - **4690 in 2010**
  - **12 Injuries Every Minute Perspective – Safer at Work**
- **~ 40 Murders Every Day**
  - **14,482 Homicides a Year**
  - **Preliminary Pending Death of Injured 2010 Nationally, Murder Declined 4.4 Percent, 682 Less**

The 5 Leading Causes of Death

- **Heart Disease**
- **Cancer**
- **COPD**
- **Stroke**
- **Accidents (Unintentional Injuries)**

Recent Trends Death Rate Indexes (1992=100)



*Deaths per 100,000 population.

Source: *Injury Facts*, 2010 Ed.

10 Leading Causes of Injury Deaths

10 Leading Causes of Injury Deaths by Age Group Highlighting Violence-Related Injury Deaths, United States – 2009

	Age Groups										
Rank	<1	1-4	5-9	10-14	15-24	25-34	35-44	45-54	55-64	65+	Total
1	Unintentional Suffocation 907	Unintentional Drowning 450	Unintentional MV Traffic 378	Unintentional MV Traffic 491	Unintentional MV Traffic 7,451	Unintentional Poisoning 6,209	Unintentional Poisoning 7,388	Unintentional Poisoning 9,675	Unintentional Poisoning 3,913	Unintentional Fall 20,422	Unintentional MV Traffic 34,485
2	Homicide Unspecified 152	Unintentional MV Traffic 362	Unintentional Drowning 119	Suicide Suffocation 181	Homicide Firearm 4,051	Unintentional MV Traffic 5,651	Unintentional MV Traffic 4,856	Unintentional MV Traffic 5,448	Unintentional MV Traffic 3,894	Unintentional MV Traffic 5,854	Unintentional Poisoning 31,758
3	Homicide Other Spec., classifiable 97	Unintentional Fire/Burn 169	Unintentional Fire/Burn 88	Homicide Firearm 115	Unintentional Poisoning 3,044	Homicide Firearm 3,300	Suicide Firearm 2,874	Suicide Firearm 3,975	Suicide Firearm 3,191	Suicide Firearm 4,248	Unintentional Fall 24,792
4	Unintentional MV Traffic 91	Homicide Unspecified 155	Homicide Firearm 53	Unintentional Drowning 90	Suicide Firearm 2,002	Suicide Firearm 2,379	Suicide Suffocation 1,935	Suicide Poisoning 2,015	Unintentional Fall 1,888	Unintentional Unspecified 4,139	Suicide Firearm 18,735
5	Undetermined Suffocation 49	Unintentional Suffocation 125	Unintentional Other Land Transport 31	Suicide Firearm 64	Suicide Suffocation 1,686	Suicide Suffocation 1,793	Homicide Firearm 1,869	Suicide Suffocation 1,889	Suicide Poisoning 1,231	Unintentional Suffocation 3,263	Homicide Firearm 11,493
6	Unintentional Drowning 45	Unintentional Pedestrian, Other 112	Unintentional Suffocation 26	Unintentional Other Land Transport 56	Unintentional Drowning 548	Suicide Poisoning 733	Suicide Poisoning 1,383	Unintentional Fall 1,341	Suicide Suffocation 922	Adverse Effects 1,647	Suicide Suffocation 9,000
7	Undetermined Unspecified 27	Homicide Other Spec., classifiable 81	Homicide Unspecified 23	Unintentional Fire/Burn 53	Homicide Cut/Pierce 419	Undetermined Poisoning 590	Undetermined Poisoning 738	Homicide Firearm 1,152	Unintentional Suffocation 540	Unintentional Poisoning 1,414	Suicide Poisoning 6,398
8	Homicide Suffocation 26	Homicide Firearm 55	Unintentional Pedestrian, Other 21	Unintentional Suffocation 41	Suicide Poisoning 348	Homicide Cut/Pierce 453	Unintentional Fall 551	Undetermined Poisoning 1,066	Homicide Firearm 520	Unintentional Fire/Burn 1,027	Unintentional Suffocation 5,939
9	Unintentional Fire/Burn 25	Unintentional Fall 46	Unintentional Struck by or Against 19	Unintentional Poisoning 37	Undetermined Poisoning 284	Unintentional Drowning 396	Unintentional Drowning 392	Unintentional Drowning 507	Undetermined Poisoning 484	Suicide Poisoning 676	Unintentional Unspecified 5,098
10	Unintentional Poisoning 22	Two Tied* 37	Unintentional Poisoning 13	Unintentional Other Transport 25	Unintentional Other Land Transport 230	Unintentional Fall 302	Homicide Cut/Pierce 375	Unintentional Suffocation 497	Unintentional Fire/Burn 456	Suicide Suffocation 584	Unintentional Drowning 3,517

*The two causes are: Unintentional Natural/Environmental and Unintentional Poisoning.
Data Source: National Center for Health Statistics (NCHS), National Vital Statistics System.
Produced by: Office of Statistics and Programming, National Center for Injury Prevention and Control, CDC using WISQARS™.

Centers for Disease Control and Prevention
National Center for Injury Prevention and Control

CS230409

In Your Medicine Cabinet

- **2009 Prescription painkiller overdoses responsible for 15,500 deaths**

- **Exceeds deaths from heroin and cocaine combined.**

- **Adults in their 40's and 50's.**

Top 10 Lost Time Injuries

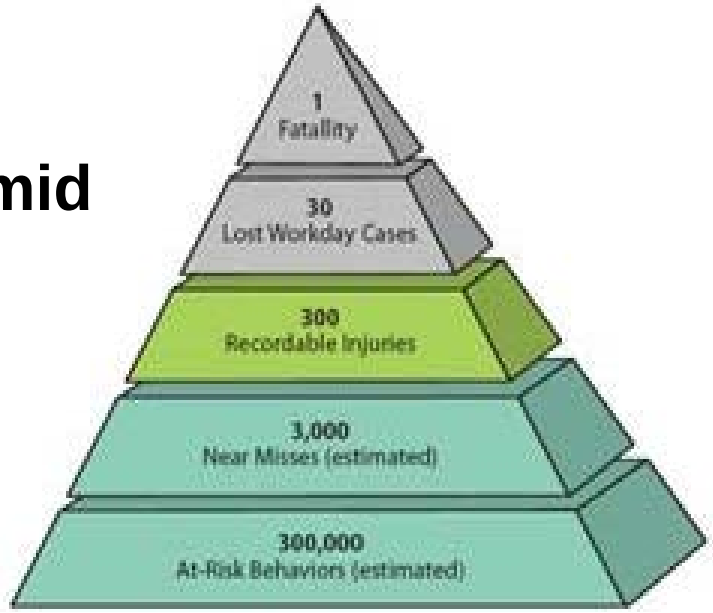
- **Strain or Sprain of the Lumbar (Lower) Region of the Back**
- **Sprain or Strain of the Neck**
- **Sprain or Strain of the Lumbo-sacral (Lower Including the Base of the Backbone) Region of the Back**
- **Sprain of the Shoulder or Upper Arm**
- **Sprain of the Leg And Knee**
- **Sprain or Strain of the Thoracic (Middle) Region of the Back**
- **Lumbar Disc Displacement**
- **Sprain of the Ankle**
- **Contusion (Bruise) of the Knee**
- **Tear of the Medial Meniscus (Shock-absorbing Tissues Between the Bones of the Knee)**

The Industry Believes

- **Employees are our Most Valuable Asset**
- **"Everyone Goes Home Safe"**
- **No Job is so Important that we Can't Take the Time to do it Safely**

Typical Incident Pyramids

Oil and Gas Pyramid



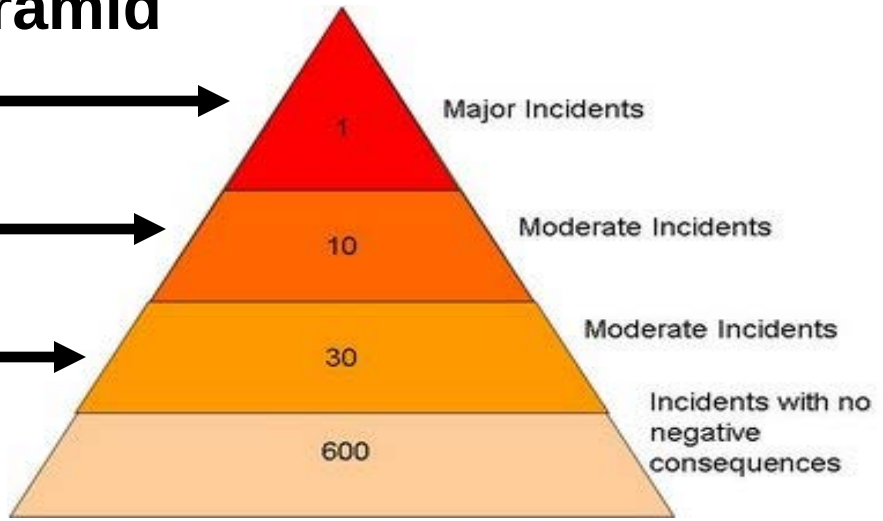
General Workforce Pyramid

Fatality →

Workmen's Comp. Injuries →

First Aid & Property Damage →

Near Misses



The Most Important Factor in Safety

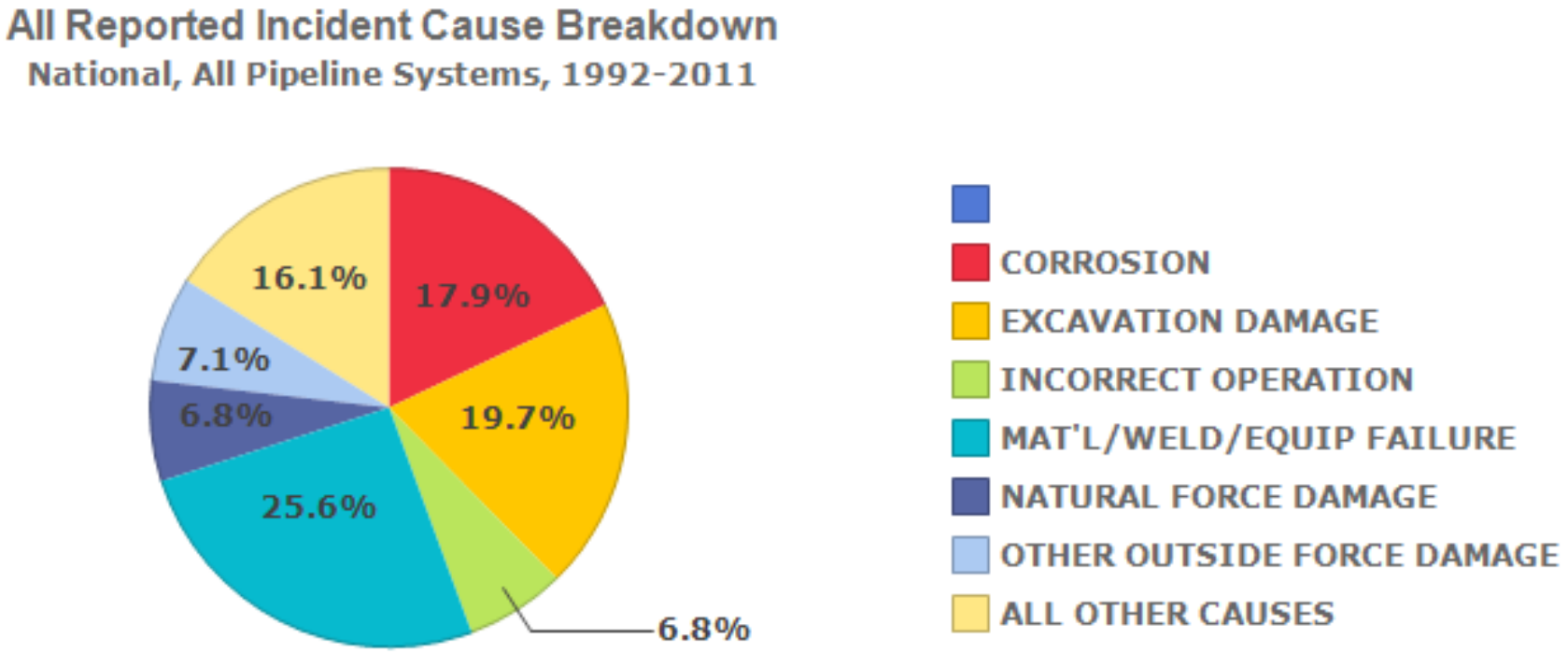
- **Routine Activities are the Most Dangerous**
- **Repetition Causes Complacency**
- **You're not Expecting Something Different when You have Done it a Hundred Times**
- **Don't Shortcut Dangerous Processes**
- **Be Aware of Change**
- **Stick to What Works**

Here's All The Excuses

2012 All Incidents
(As of 9/26/2012) PHMSA Data

	Year to Date	3 Year Average	5 Year Average	10 Year Average
Incidents	385	603	617	644
Fatalities	7	16	15	16
Injuries	31	78	68	61

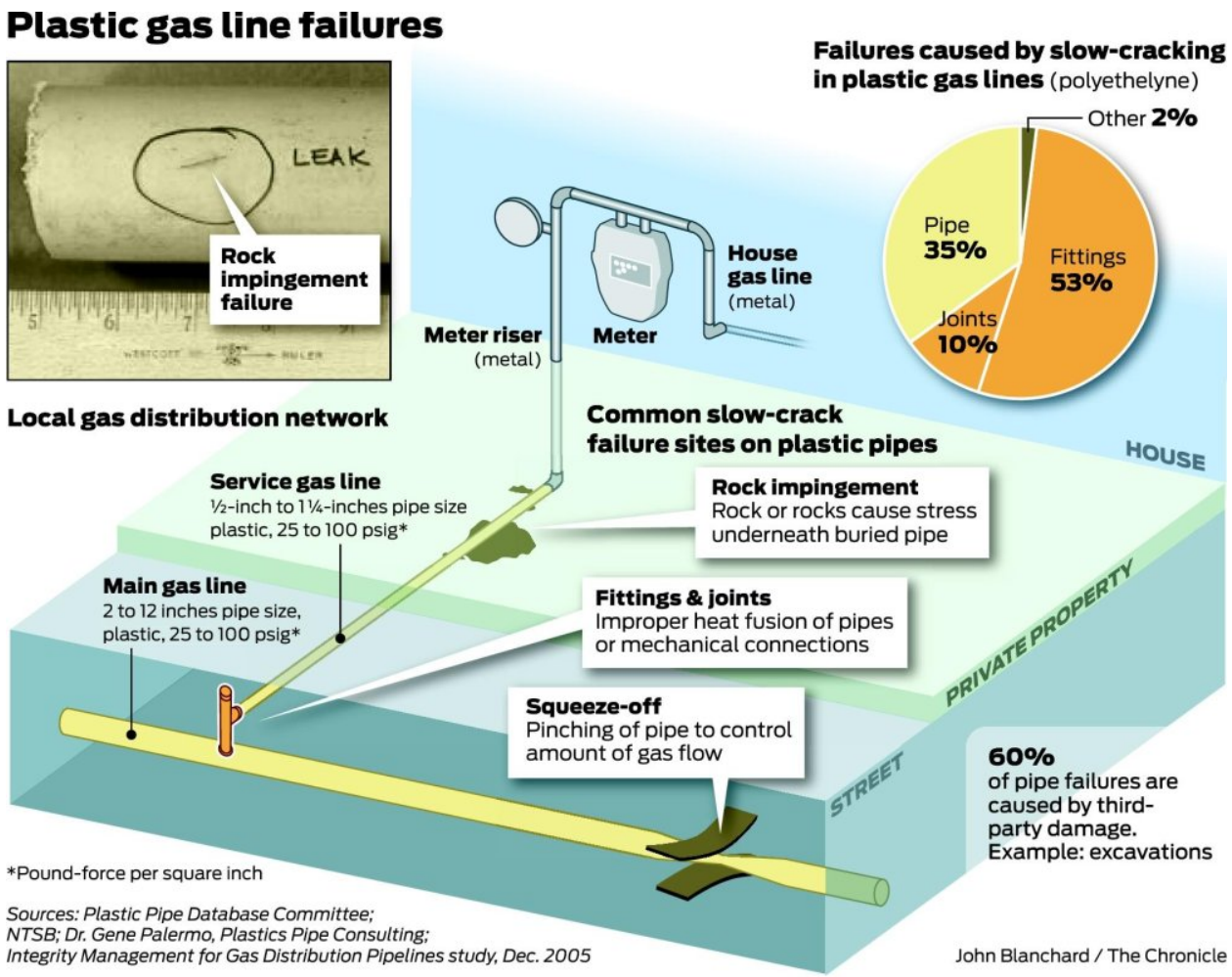
Historical Root Cause of Incidents



Source: PHMSA Significant Incidents Files May 31, 2012

Please Pay Attention

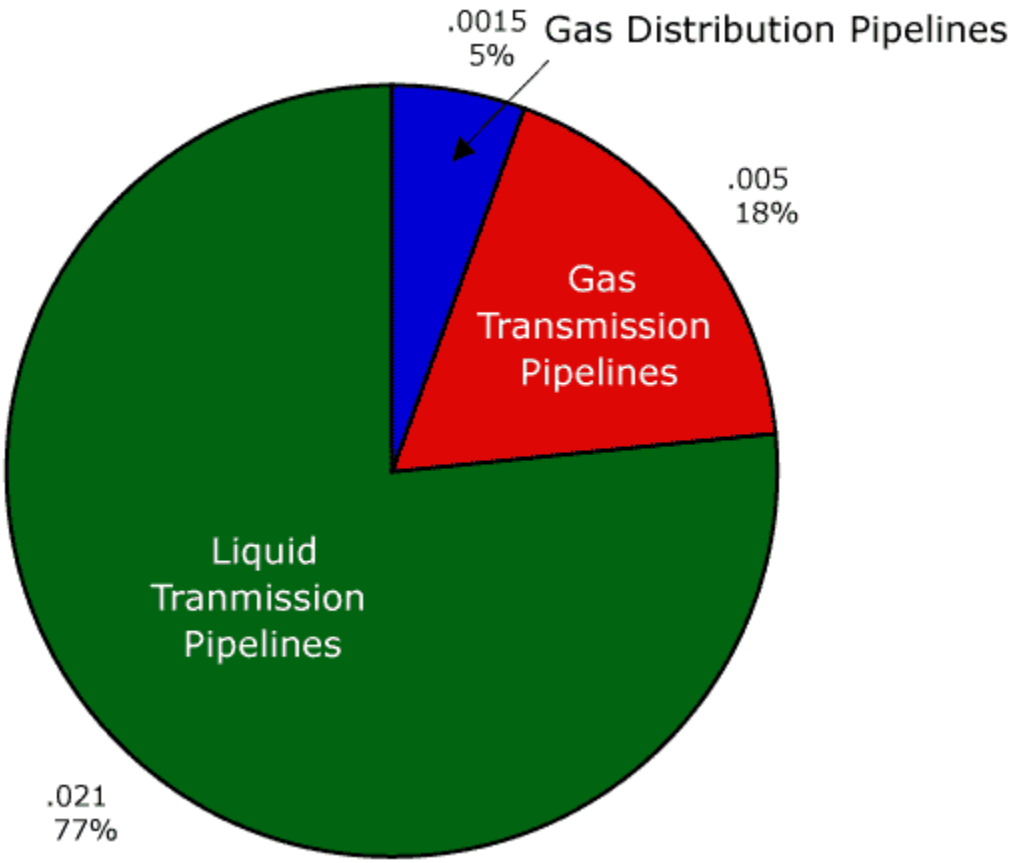
If you See Something SAY SOMETHING



Gas Distribution
(As of 9/26/2012) PHMSA Data

	Year to date	3 Year Average	5 Year Average	10 Year Average
Incidents	61	133	139	143
Fatalities	4	11	10	12
Injuries	20	50	47	45

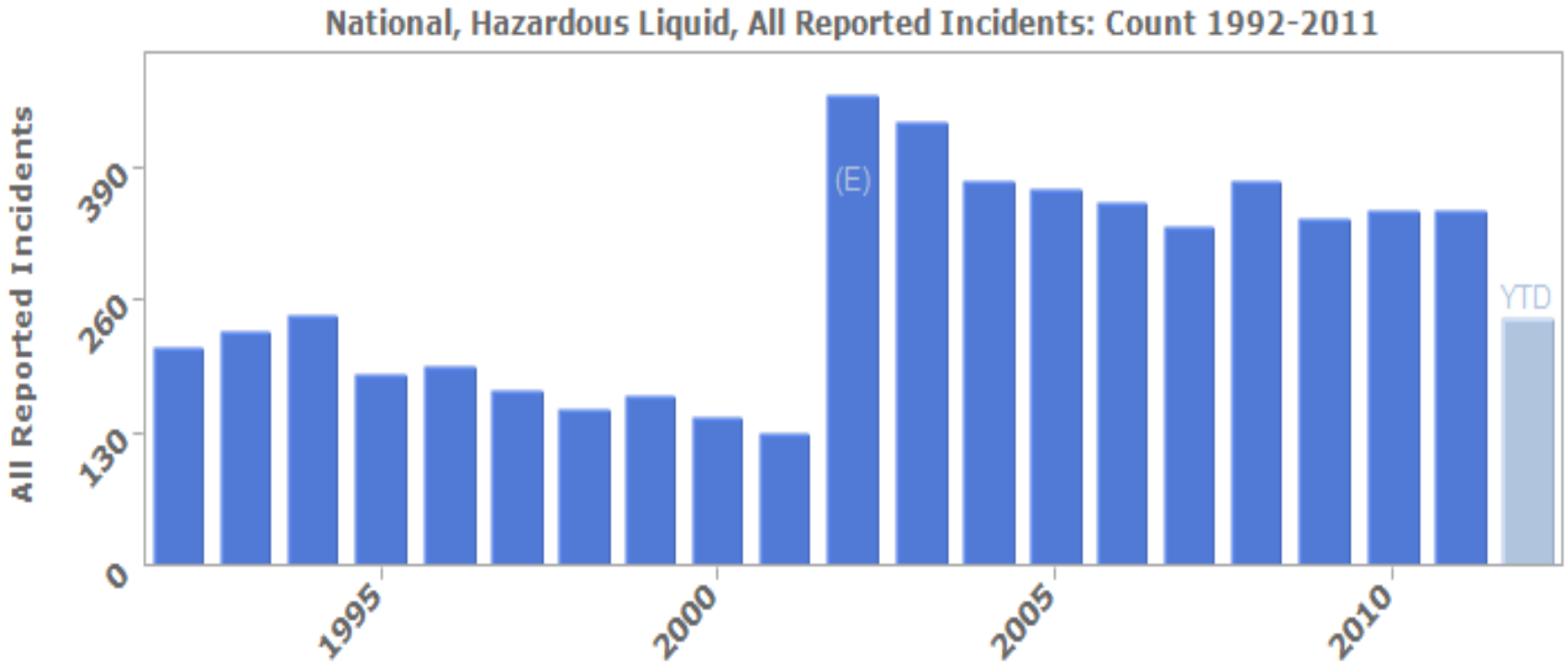
Incidents /Pipeline Mile



Gas Transmission Statistics

	Incidents	Fatalities	Injuries
2012 YTD	63	0	7
2011	108	0	1
3 Year Average	95	3	24
5 Year Average	93	2	17
10 Year Average	90	2	11

Liquids Incidents Are Double the Gas



Source: PHMSA Significant Incidents Files September 28, 2012

Kansas Statistics

Total 10 Years	7	2	11
	Incidents	Fatalities	Injuries
2012 YTD	2	1	4
3 Year Average	1	0	2
5 Year Average	1	0	1
10 Year Average	1	0	1

PHMSA Generated: 10/07/12 08:24:48 AM

Where Are We Most Vulnerable

TABLE 2. Number of fatal injuries among oil and gas extraction workers, by type of injury event — United States, 2003–2006*

Injury event	No. of fatal injuries
Highway crash	110
Struck by object	88
Explosion	36
Fall to lower level	30
Fire	27
Caught or compressed in moving machinery or tools	26
Electric current	20
Aircraft crash	19
Other	49
Total	**404**

SOURCE: US Department of Labor, Bureau of Labor Statistics, Census of Fatal Occupational Injuries (2003–2006).

* Data for 2006 are preliminary.

#1 Pipeliner Hazard

2 hours to job site

10 Hour Days
+ Overtime

2 Hours Back

Equals

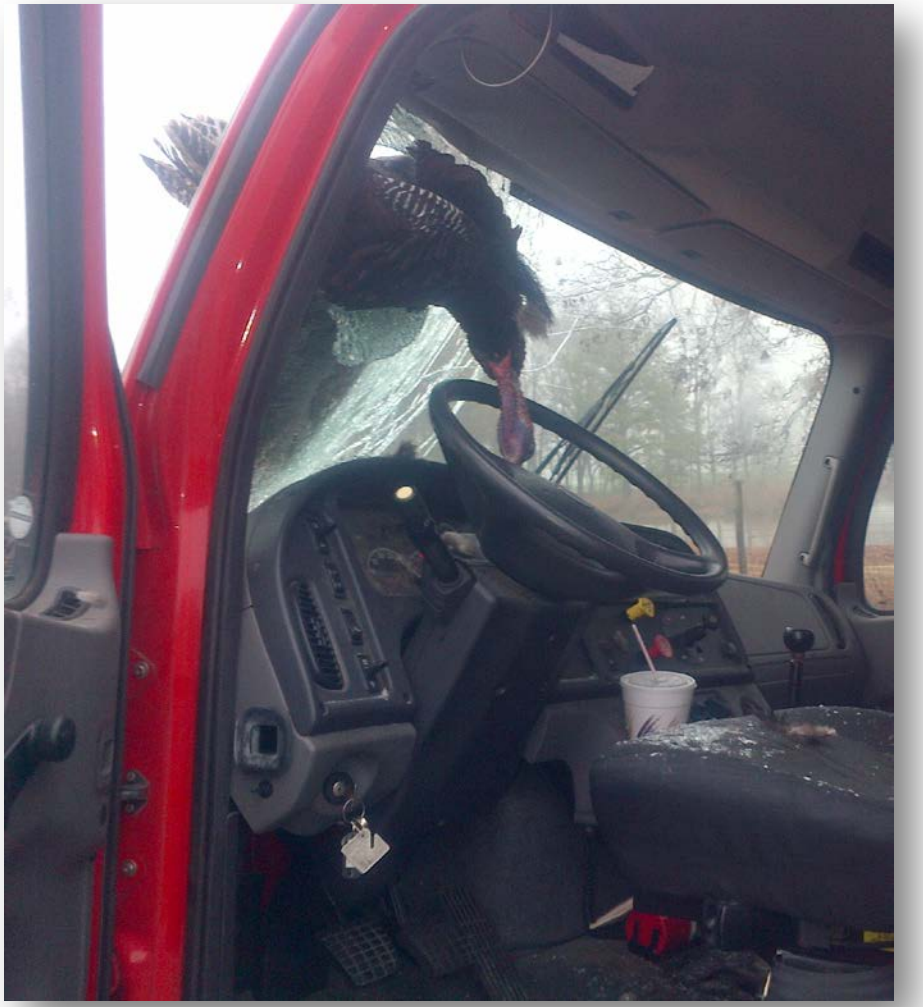
Exhaustion

Coke Driver Stops For Some Wild Turkey (and Coke?)

? Would you believe

71 Highway South of Kansas City

Deer Collisions
are not the
Only Road Hazard



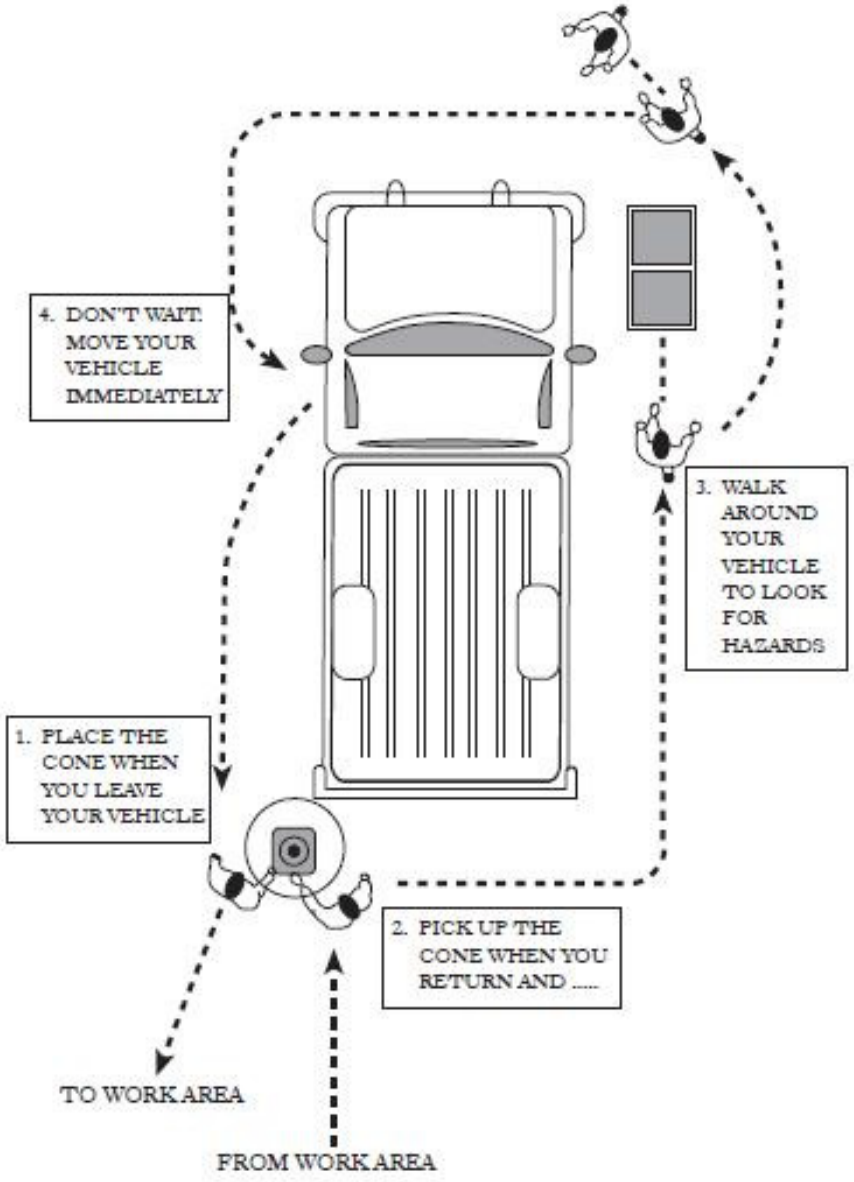
Trucker's Hate Texter's

I learned to text today

Now He can ~~Call~~ Text His Dad and Ask for A Ride Home

Safety Circle

We Use a Safety Circle Magnet Instead of a Cone



Distracted Walking

Emergency Room Visits have Quadrupled in the Past 7 Years

Governors Highway Safety Association

Top 10 Most Recently Cited OSHA Standards Violated in FY2011

- **Scaffolding, General Requirements, Construction** (29 CFR 1926.451)
- **Fall Protection, Construction** (29 CFR 1926.501)
- **Hazard Communication Standard, General Industry** (29 CFR 1910.1200)
- **Respiratory Protection, General Industry** (29 CFR 1910.134)
- **Control of Hazardous Energy (lockout/tagout), General Industry** (29 CFR 1910.147)
- **Electrical, Wiring Methods, Components and Equipment, General Industry** (29 CFR 1910.305)
- **Powered Industrial Trucks, General Industry** (29 CFR 1910.178)
- **Ladders, Construction** (29 CFR 1926.1053)
- **Electrical Systems Design, General Requirements, General Industry** (29 CFR 1910.303)
- **Machine Guarding (Machines, General Requirements, General Industry)** (29 CFR 1910.212)

Whistleblower – Not Me!

President Obama at an oil rig repair shop in Gulf area –

When everyone around you is wearing gear –

You better go get some unless you are in the Federal Executive Branch

2010 Constructions "Fatal 4"

- **Falls – (34%)**

- **Electrocutions – (10%)**

- **Struck by Object – (8%)**

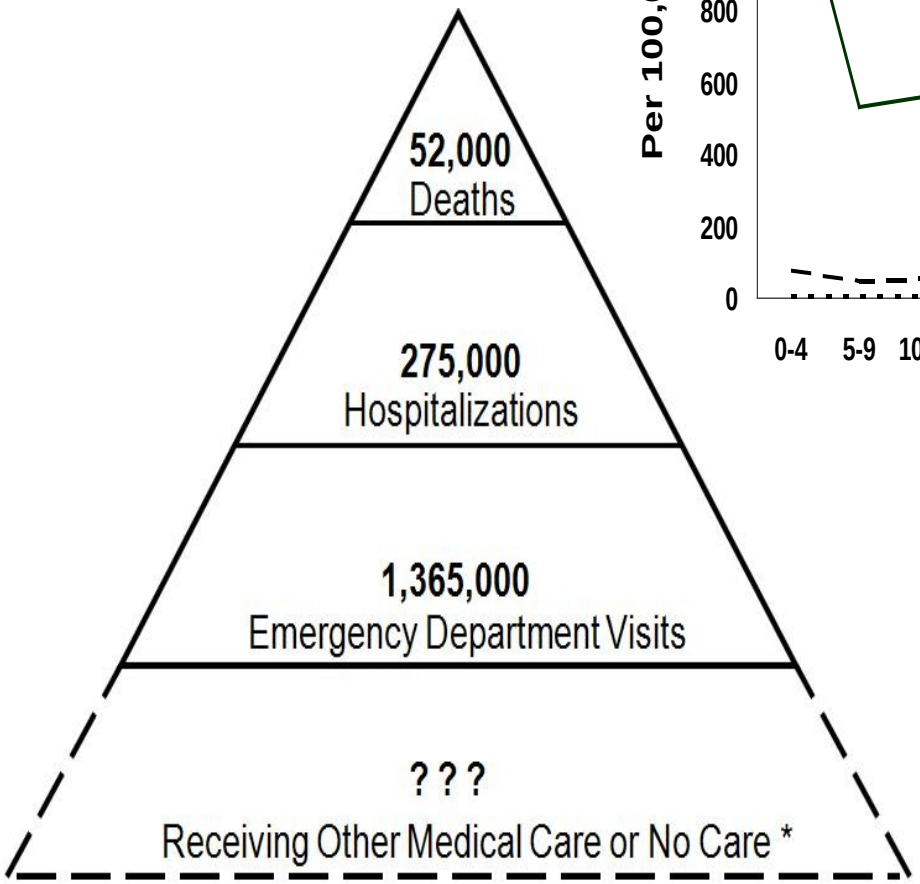
- **Caught-in/between – (4%)**

Can We Get A Little Help Here?

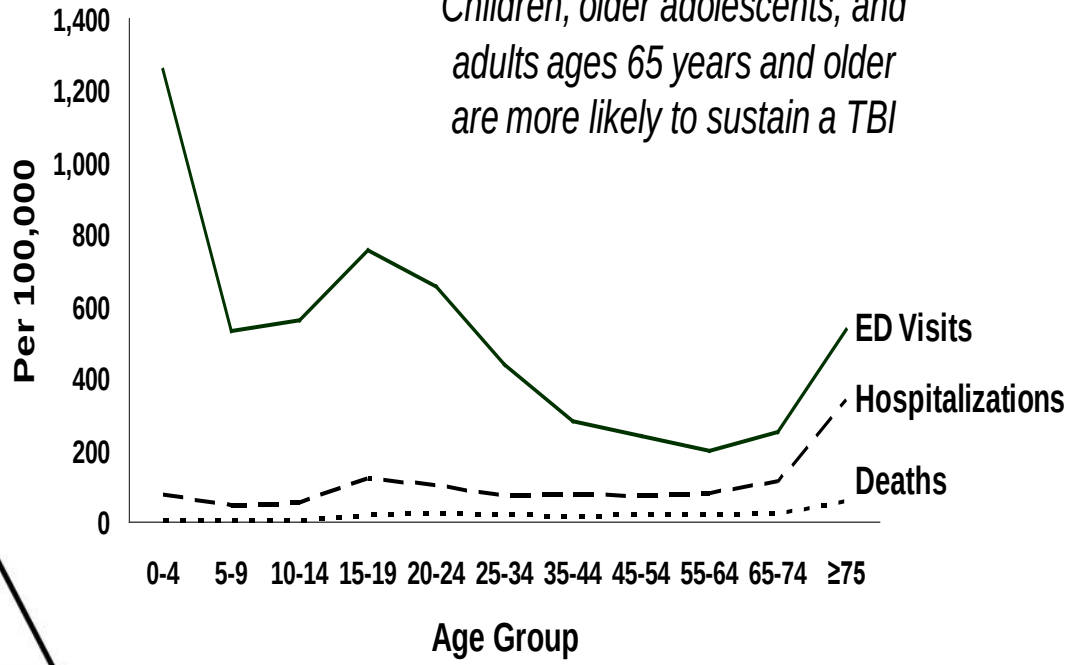
OSHA Eye Candy

We Don't Need No Fall Protection

Traumatic Brain Injuries



Children, older adolescents, and adults ages 65 years and older are more likely to sustain a TBI



Cranes Are Dangerous Places

Never Stand Between the Pipe and the Ditch

Construction Dangers

Friday January 27, 2012

Horseshoe Casino Concrete Pour Support collapsed

Minor Cuts and Bruises

BP Compression Station -

Pinion, CO

1 Dead

2 Injured

Pneumatic Overpressure During the Launching of a Maintenance Device

Pneumatic Test failure

1 Died
3 Injured
Three companies (Same Incident) were cited by OSHA for exposing workers to hazards during the construction of a gas pipeline meter station

Lesson – STOP
Bleed it down – Start Again
Follow the Best Practices

OSHA/APCA Alliance Best Practice

alliance
An OSHA Cooperative Program

PRESSURE TESTING BEST PRACTICES

For Personnel Conducting the Test

PRE-TEST

- Obtain written test procedure and verify proper test medium.
- Collect all equipment and material needed to complete the Pressure Test.
- Verify that test equipment and materials are rated to withstand the test pressures.
- Wear appropriate personal protective equipment (PPE) as required by the task being performed and as required per OSHA regulations.
- Place signs, barricades, or protective barriers at the adequate distance to protect personnel from unanticipated pressure release or equipment failure.
- Check and secure all supply lines and hose connections with retaining device(s).
- Ensure valves are in proper location and valve openings are set as per written test procedure requirements.

TEST

- Check all visible connections for leaks.
- Never tighten connections that are under pressure. If a leak develops, you must depressurize to a safe level and then re-tighten.
- Ensure unauthorized personnel are kept out of the test area.
- Conduct test according to written test plan procedure.
- Confirm acceptance of test by authorized Operator representative.

POST TEST

Purging & Testing Best Practices

- **The Danger - Whenever Gas Piping is Repaired, Extended, or Newly Installed it Must be Purged, Tested and Purged Again**
  - **Ignition Sources- Trucks, Welders, Cell Phones, Passersby, Smoking**
- **The Law - OSHA 1910.147 LO/TO NFPA 54, and NFPA 85 or NFPA 86.**
- **The Hazards-**
  - **Remember Plug Valves Bleed by 60-80% Industry**
  - **Nitrogen Poisoning**
  - **Catastrophic Failure – Pneumatic Testing**

PRE-TEST (APCA)

- **Develop written test procedure and share w/all stakeholders**
- **Verify proper test medium.**
- **Do equipment / materials ratings meet/exceed the test pressures.**
- **Wear all required (PPE) for the task**
- **Place signs, barricades away from failure perimeter**
- **Check all supply lines and connections with retaining device(s)**
- **Ensure valves are in proper location and valve openings are set as per written test procedure requirements.**

Test (APCA)

- Check all visible connections for leaks.
- Never tighten connections that are under pressure.
- If a leak develops, depressurize then re-tighten.
- Ensure unauthorized personnel are kept out of the test area.
- Conduct test according to written test plan procedure.
- Confirm acceptance by authorized Operator representative.

Post Test

- **Properly discharge and dispose of the test medium as per Operator requirement.**
- **Remove all warning signs, flagging, and barricades.**
- **Notify all personnel that the area is all clear.**

Purging & Testing Best Practices

- **Design – Purge (Loading) Points, Isolation Points, Piping Support, Gaskets, Material Specifications, Nitrogen, Purge Blowdown /Discharge Locations, Multi-Gas Detectors, Piping Integrity(Pre-testing/documentation), Emergency Isolation Attended 100%**
- **Procedures - Written Procedures , Job Site Hazard Communication, Pre-purge/test Tailgate**
- **Isolate Workspace – If You are Not Essential to the Task Evacuate the Area – Distance is Your Best Friend**

Looks Good On TV

Fun At The Beach – But On The Job 400 Lbs. Per Sq. Ft. If You're Buried

Excavation Safety Program

- Competent Person Training
- Hazard recognition – water Atmosphere
- Soil Type Classification – Clay, Sand, Rock
- Shoring Guidelines – Trench Boxes, Shields
- Sloping Guidelines ¾:1 sides, 1;1
- Regulatory Requirements for Access & Egress

Quick Disconnect Buckets

Sandblasting Hazard – Distance is

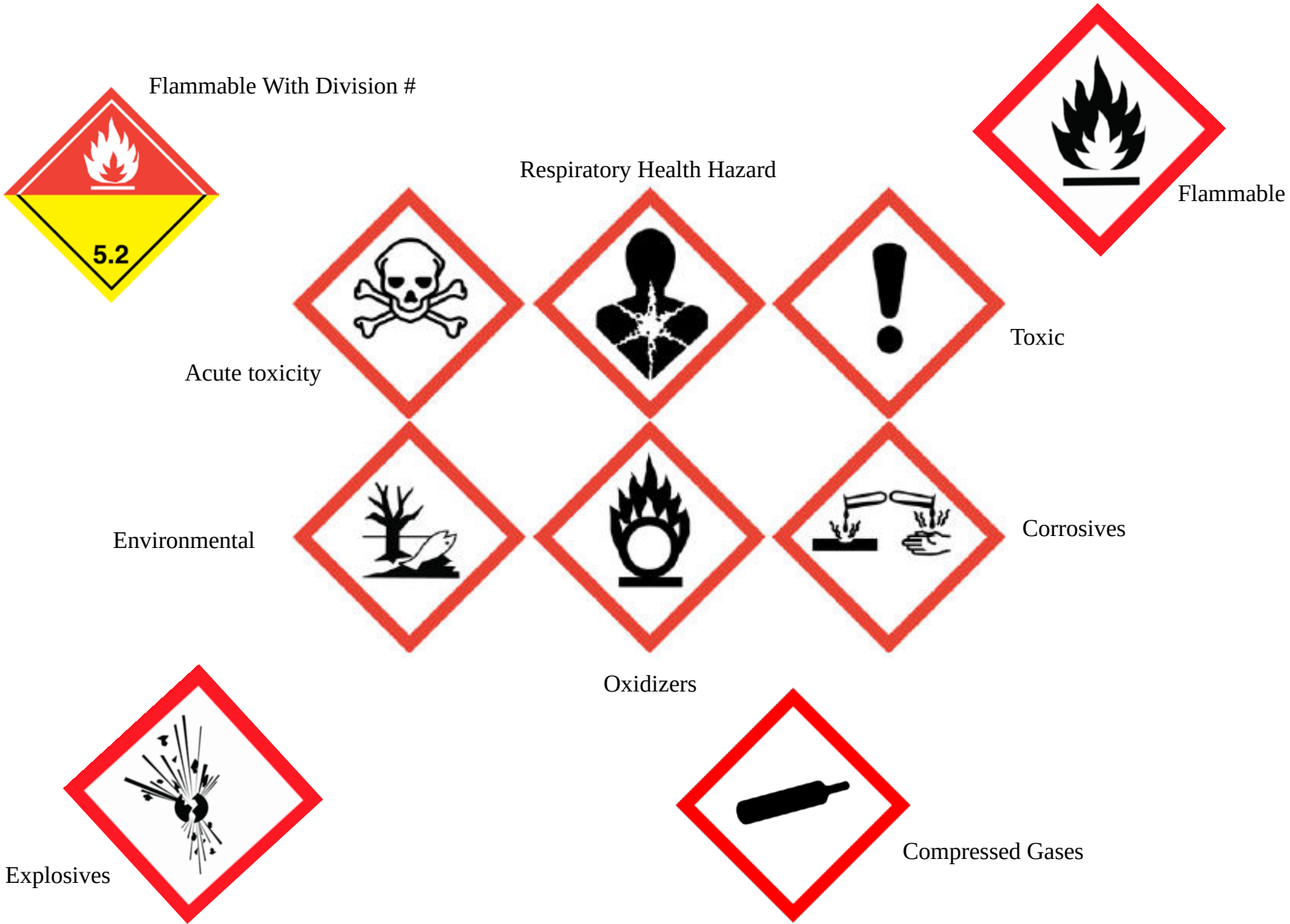
Coal Slag Abrasive has Dangerous Levels of Beryllium, which has been Linked to Cases of Cancer

Coal Slag Abrasive is Used to Prep Pipelines for Coating and Painting

OMB's 1 Year hold up on Silicosis

- **According to OSHA's risk assessment, the delay in approving the silica dust rule could have prevented 60 worker deaths and 2,400 cases of silicosis in the last year. It should only take 45 days to review and initiate a public comment period. Lobbyists want to kill the rule.**

New GHS Pictograms



New Label Awareness Required by 2013

GHS Chemical

Danger!
Toxic If Swallowed, Flammable Liquid and Vapor

Do not eat, drink or use tobacco when using this product. Wash hands thoroughly after handling. Keep container tightly closed. Keep away from heat / sparks / open flame - No smoking. Wear protective gloves and eye / face protection. Ground container and receiving equipment. Use explosion-proof electrical equipment. Take precautionary measures against static discharge. Use only non-sparking tools. Store in a cool / well ventilated place.

IF SWALLOWED: Immediately call a POISON CONTROL CENTER or doctor / physician. Rinse mouth.

In case of fire, use water fog, dry chemical, CO2 or "alcohol" foam.

Chemical Name

CAS# 55-55-5

Health Hazards / Target Organ Effects

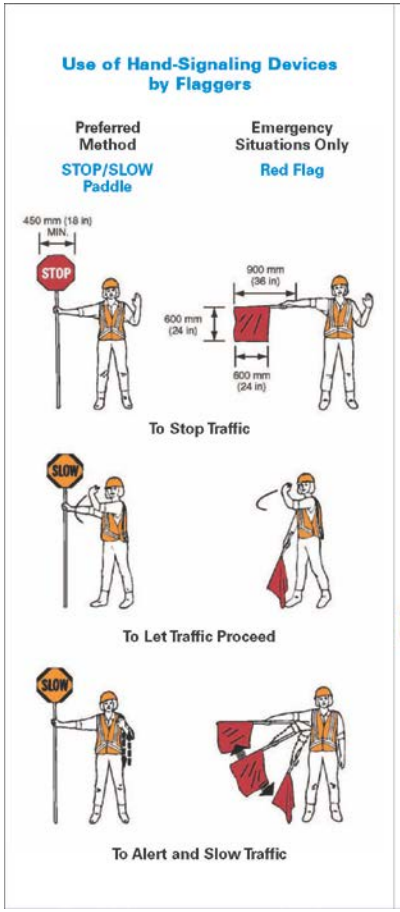
Irritant to: Eye, Repiratory system and mucos membranes, Liver, Kidney, Eyes, Skin, Lungs and/or Respiratory System

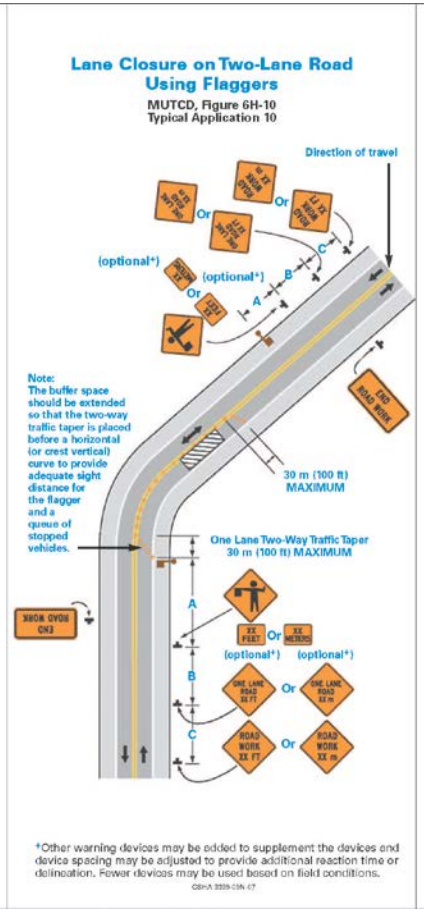
Physical Hazards
Flammable Liquid

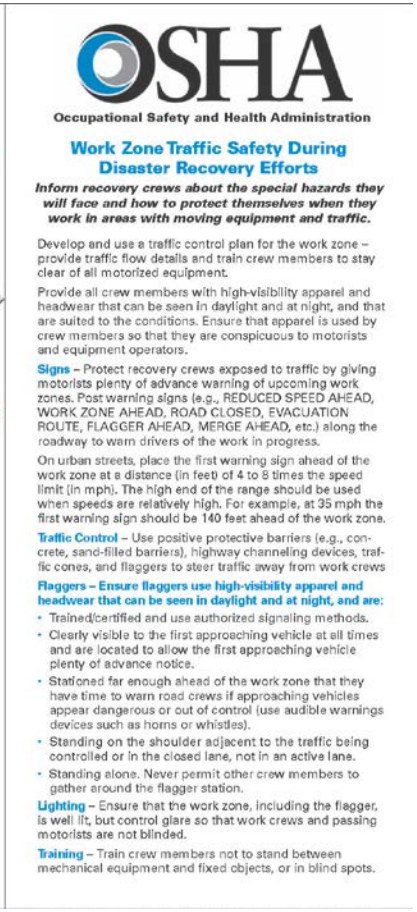
Route of Entry: Inhalation, Skin, Eye, Ingestion

Workzone and Job Site Handouts

OSHA now Requires 10 Question Test on Each 10 HR Training Segment and a Final Exam







Go to http://www.osha.gov/Publications/ for training materials

Production and Gathering

API Just Adopted These 8 Pipeline Safety Principles

- Zero Incidents
- Organization Wide Commitment
- A Culture of Safety
- Continuous Improvement
- Learn from Experience
- Systems for Success
- Employ Technology
- Communicate with Stakeholders

OSHA Safety Topics

- General Safety
- Safety and Health Program
- Hot Work-Welding
- Hydrogen Sulfide Gas H2S
- Special Precautions
- Site Preparation
- Conductor Hole, Rathole and Mousehole
- Transporting Equipment to the Site
- Drilling

H2S Prevalent Around Wells

Shell's Methane Migration

BP Horizon

April 20, 2010

11 Dead

12 Injured

Columbia Gas Irvine, KY

January 2, 2012

Gas Well Explosion

January 5, 2012

A Rig Drilling for a Company in Oklahoma Burned Thursday Night after Hitting a Shallow Gas Pocket and Suffering a Blowout Before Key Safety equipment was Rigged Up, the Company Said

The Rig Burned for 3 Days

Enid, OK Oil Well Explosion

January 20, 2012

4 Workers Injured

Eagle Ford Shale

January 20, 2012

OSHA issues 10 Safety Violations

While Offloading Saltwater with Skim of Oil - Welders Working in the Area Ignition the Source

Marshall, MI

July 26, 2010

30"Oil Pipeline Rupture Releases 20,000 Barrels into Tallmadge Creek

2,000 People Involved in Cleanup

30 Homes Purchased

Marshall Incident $3.7Million Fine

The Houston limited partnership incurred $595 million of emergency response and environmental expenses and provisions for third-party claims related to that incident and to a subsequent release on Sept. 9, 2010, from its Lakehead 6A line near a Romeoville, Ill., industrial area, EEP said in its 2010 10-K filing with the US Securities and Exchange Commission.

7/2/2012 Contact Nick Snow at nicks@pennwell.com.

San Bruno, CA

Sep 9, 2010

8 Dead

15 Injured

53 Homes Destroyed

120 Homes Damaged

Feb 2012 PG&E

Fines at $200,000,000 Estimated

San Bruno Financial Judgment

- **A California State Supreme Court Judge ruled that**
- **PG&E will have to pay about 55% of the estimated $2.2 billion it will cost to upgrade the utility's natural gas transmission pipelines.**
- **45% to the ratepayers**

PG&E Integrity Projects

In 2012, PG&E has Eight "Smart Pig" Projects Inspecting up to a Total of 206 Miles.

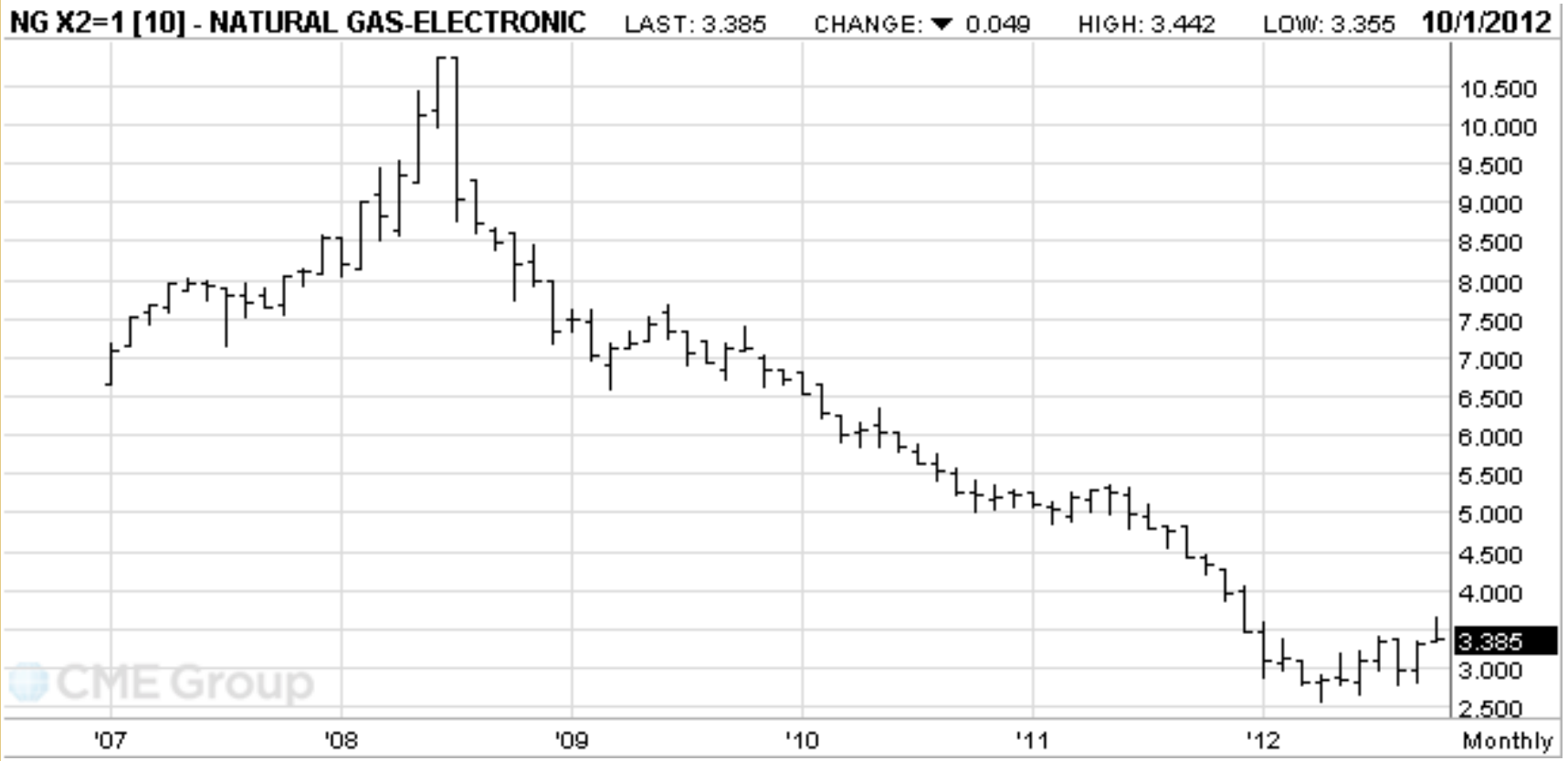
Replace about 39 Miles of Transmission Pipelines

Strength-test About 170 Miles of Pipelines

PennEnergy Petroleum Daily News

Automating 46 Valves, for Remote Control and Automatic Shutoff

Profits Pay for New Pipelines



Allentown, PA February 9, 2011

July 3, 2012

$386,000 Fine

PUC Blame Placed On Gas Company for Low Odorant Levels and Failure to Replace Mains

Company Disputes Findings

1 Lightning Bolt Follows Tracer

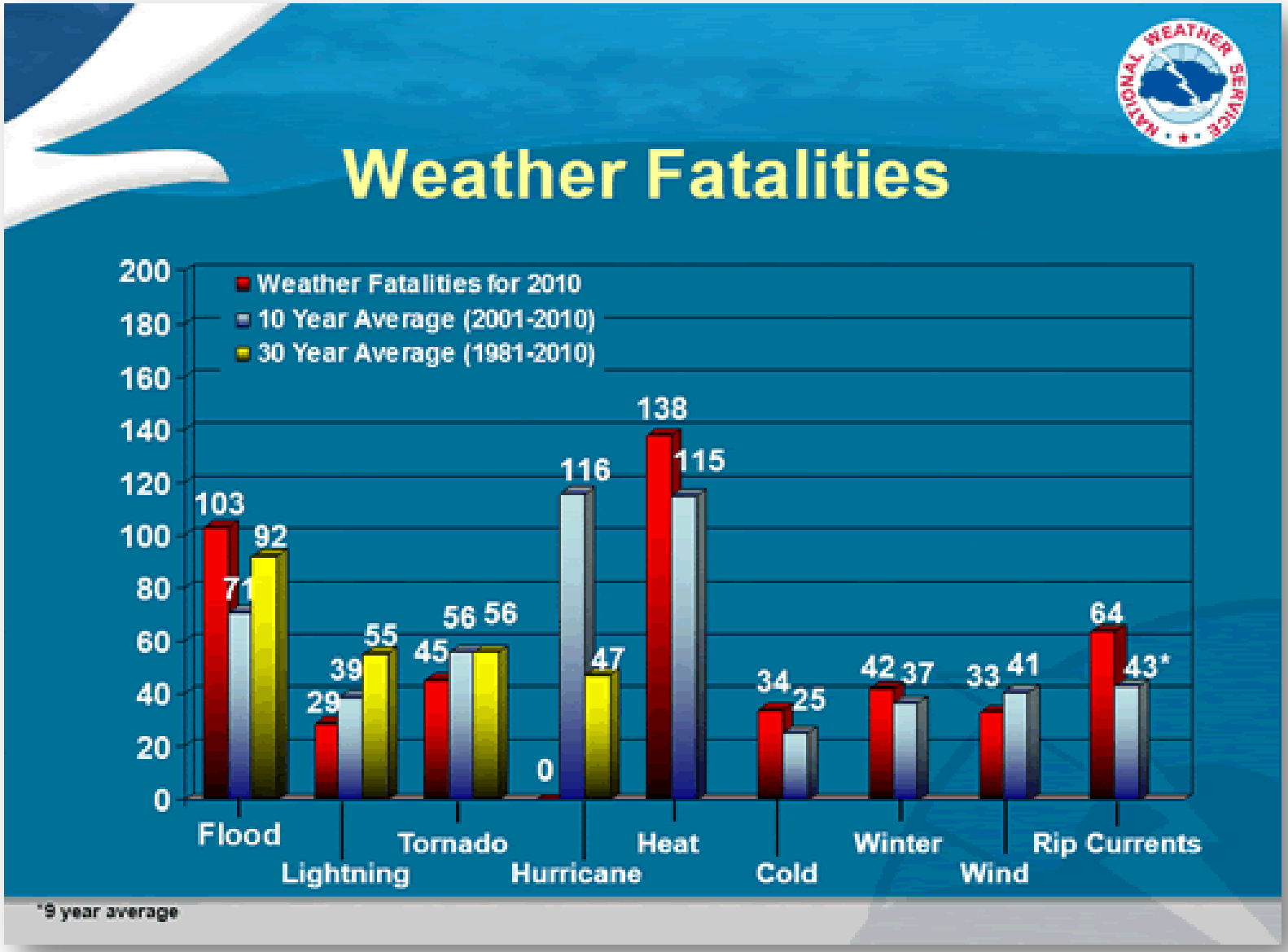
Apple Valley, MN

June 11, 2012

Hit Tree First

House in Between Not Damaged

Dangerous Weather Facts



When Thunder Roars Go Indoors!

Lightning Strikes More than 400 People in the United States Each Year, Causing Devastating and Permanent Disabilities for those Who Survive

Turn Around Don't Drown

Get the Word Out

Don't Delay – Get Away

Call 911

Sensationalism Sells

And Everybody Has A Camera

Naturalgaswatch.Org

<u>Headline</u>

400% Increase in

Natural Gas Explosions

- **According to (PHMSA,)**

Two Serious or Significant

Incidents in New York City's Natural Gas Distribution Pipelines in 2010

- **In 2011, that Number Increased to Eight.**

Incidents September 2011

- **Encinitas (Calif.):** McDonald's Destroyed, No Reported Injuries
- **Bakersfield (Calif.):** One Home Damaged, One Severely Injured
- **Norfolk (Va.):** One Home Destroyed, No Injuries Reported
- **Blacksburg (Va.):** Gas Leak, Evacuations, No Injuries
- **Long Island (N.Y.):** One Home Leveled, Three Firefighters injured
- **Plainfield (N.J.):** One Home Destroyed, One Severely Burned
- **Murphysboro (Ill.):** Three Homes Destroyed, No Injuries
- **Girard (Ill.):** One Home Destroyed, One Killed
- **Kenedy (Texas**): Well Head Explosion, One Killed, Three Injured
- **Mont Belvieu (Texas):** Natural Gas Plant Fire, One Killed
- **Leavenworth (Kansas):** Faulty Regulator Caused Gas Leak and Evacuation of a School, No Injuries Reported
- **Philadelphia:** One Killed, Six Injured
- **Fairport (Ohio):** Nine Buildings Destroyed, Safe Evacuations, No Injuries Reported
- **Hanoverton (Ohio):** Two Homes Damaged, One Injured. (1,6,8)

Wellington OH

January 12, 2012

Sunoco Logistics 8"

Leaked 116,760 Gallons of Gasoline from a 30" Split – 70 Homes evacuated for Over a Week

The Incidents Continue

January 16, 2012

West Haverstraw, NY

Topeka, KS Jan 30, 2012

Contractor Installing Irrigation Nicks Gas Line

One died – Homeowner Rescued Alive but Died Later

East Prairie, MO

- **February 21, 2012**
- **4.0 Earthquake Just North of New Madrid**

Galloway Township, NJ

Smelled Gas but it Dissipated-

Then the Crawl Space Exploded

Naturalgaswatch.org/Press of Atlantic city

Charlotte, NY

July 16, 2012 - A Leak in the Basement

Minor Injuries to Residents

Natural Gas Watch.org -Atlantic City Press

Well Tied to Quakes

- **A Northeast Ohio Well Used to Dispose of Wastewater from Oil and Gas Drilling Almost Certainly Caused a Series of 11 minor Quakes in the Youngstown Area Since Last Spring**
  - Seismologist Investigating the Quakes Said Monday
- **It Might Take a Year for the Wastewater-related Rumblings in the Earth to Dissipate**
  - said John Armbruster of Columbia University's Lamont-Doherty Earth Lab

Earthquake Drill 2012

February 7, 2012

EMA Suggests a Wrench

Emergency Action Plan

- **Shelter in Place Locations – Not just in the Office**
- **Fines**
- **Every Employee Rule**

Let Your Family Know You're Safe

- **If Your Community has Experienced a Wild Fire, or any Disaster, Register on the; American Red Cross Safe and Well Web Site Available Through RedCross.org to Let Your Family and Friends Know about Your Welfare.**

- **If You Don't have Internet Access, call 1-866-GETINFO to Register Yourself and Your Family**

Stroke - to Recognize Symptoms

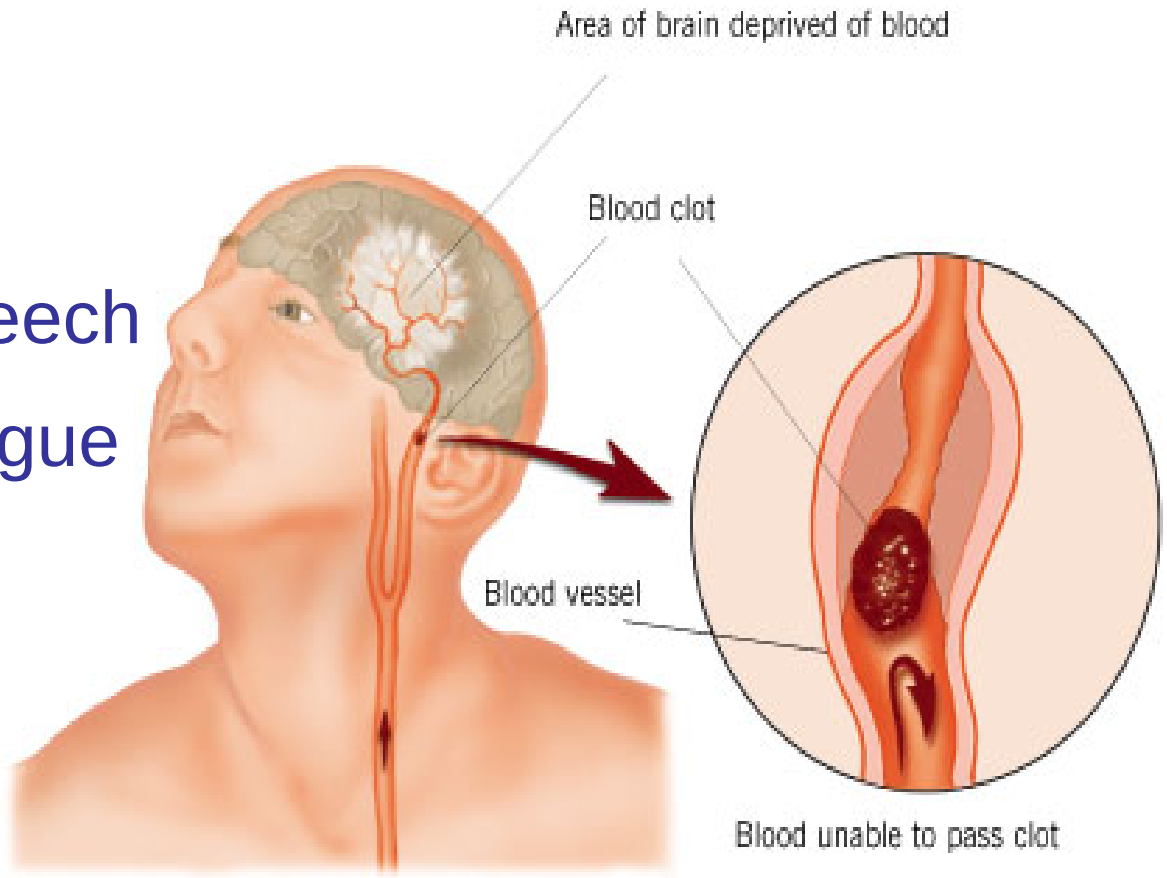
FAST

Face

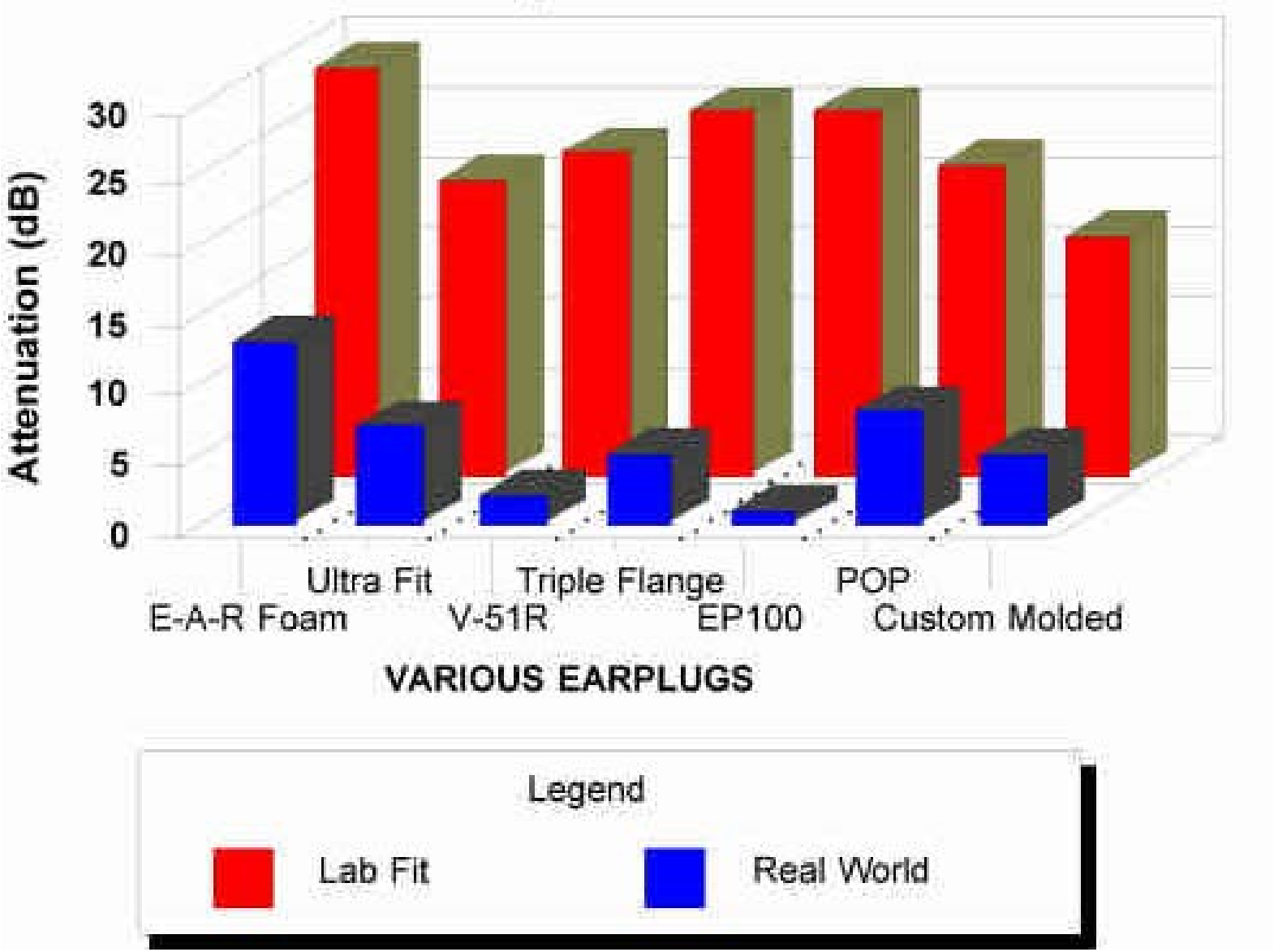
Arms

Smile or Speech

Time or Tongue



NRR Hearing Protectors



Inner Ear Comparison

Healthy Inner Ear Lined with Cilia

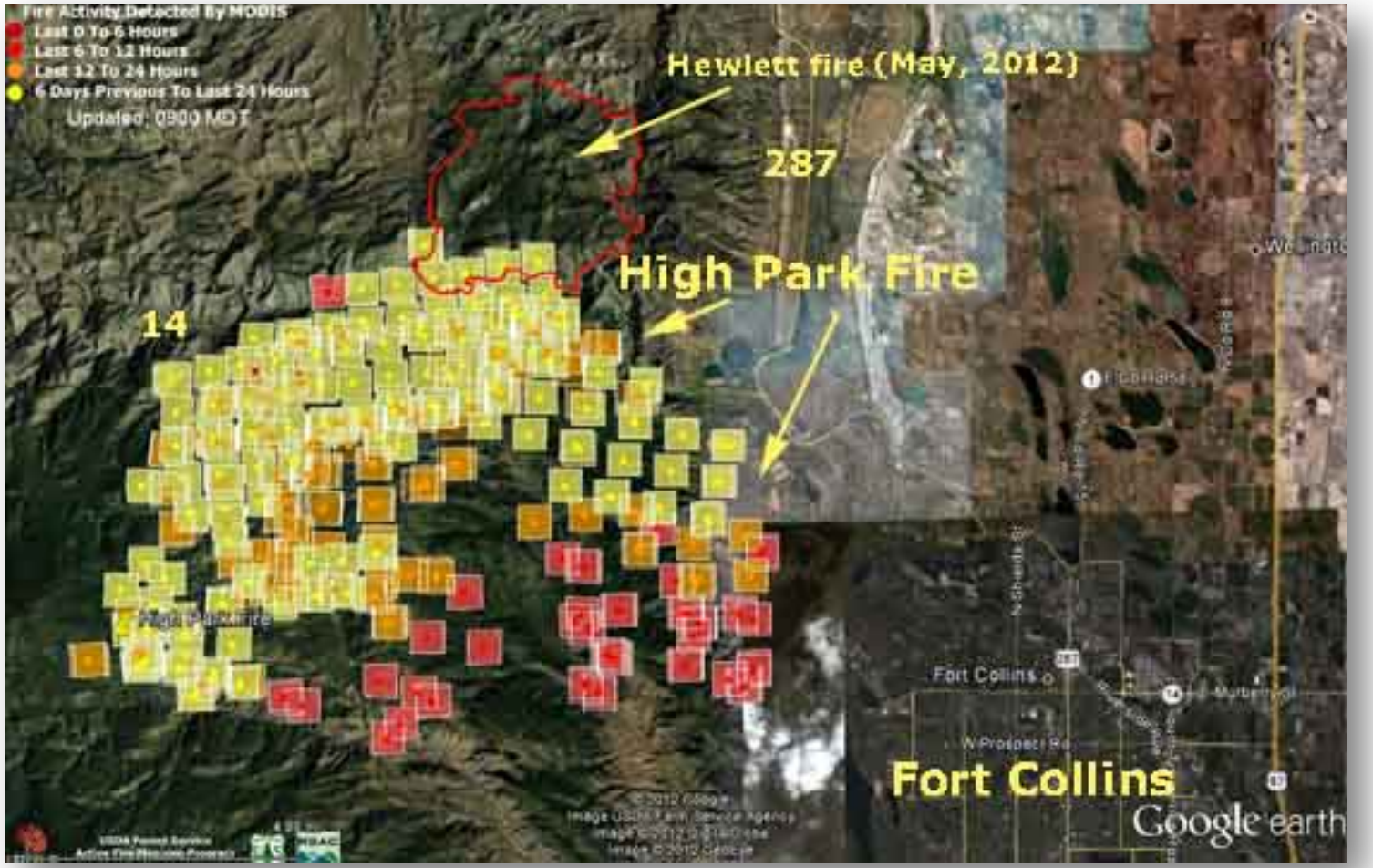
Damaged Inner Ear - Inner Ear Showing Damage to the Cilia

Cilia - Tiny Hair Cells that Help You Hear

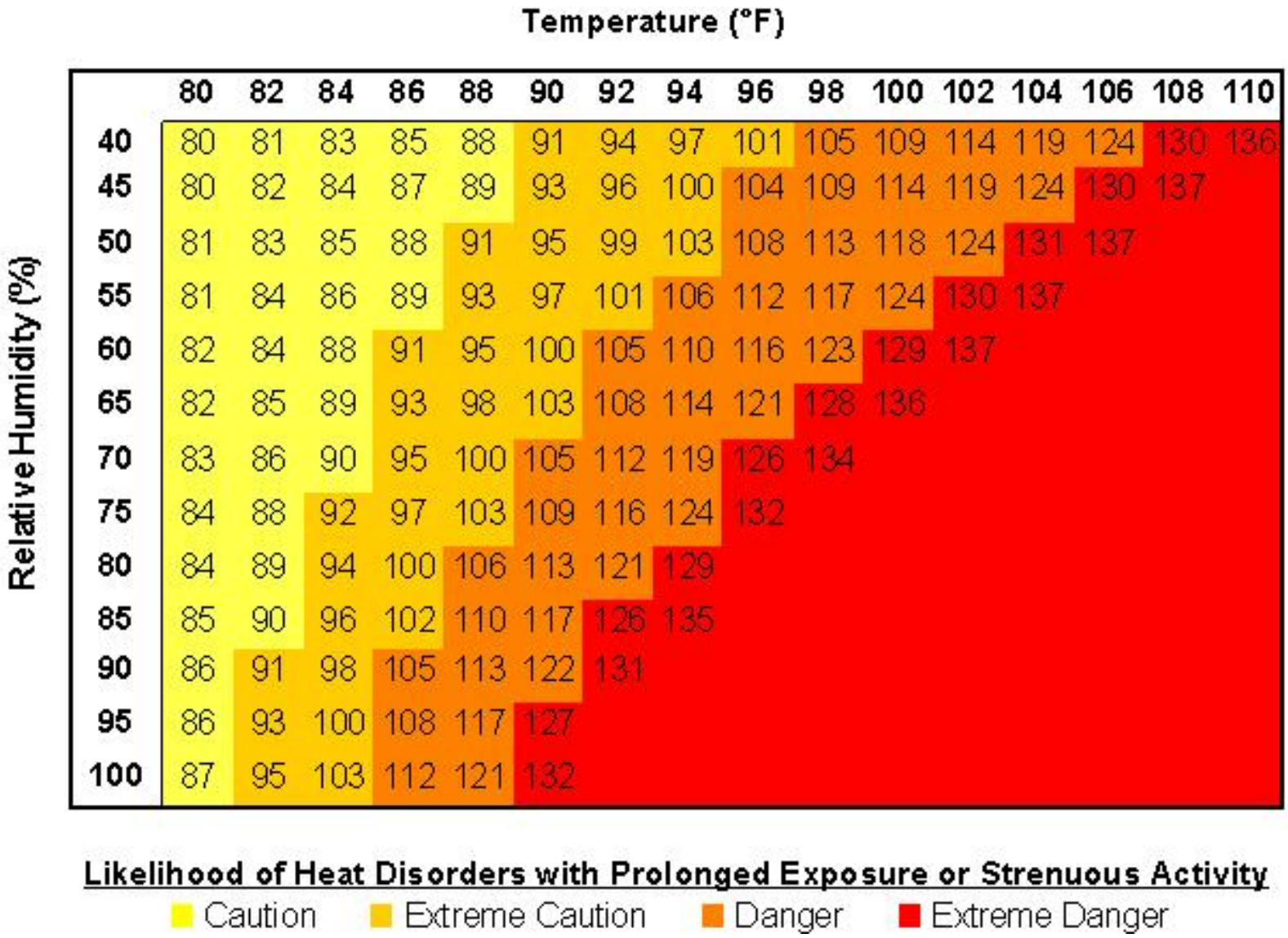
Wildfire Dangers are a Potential

Wildfire Maps from NOAA

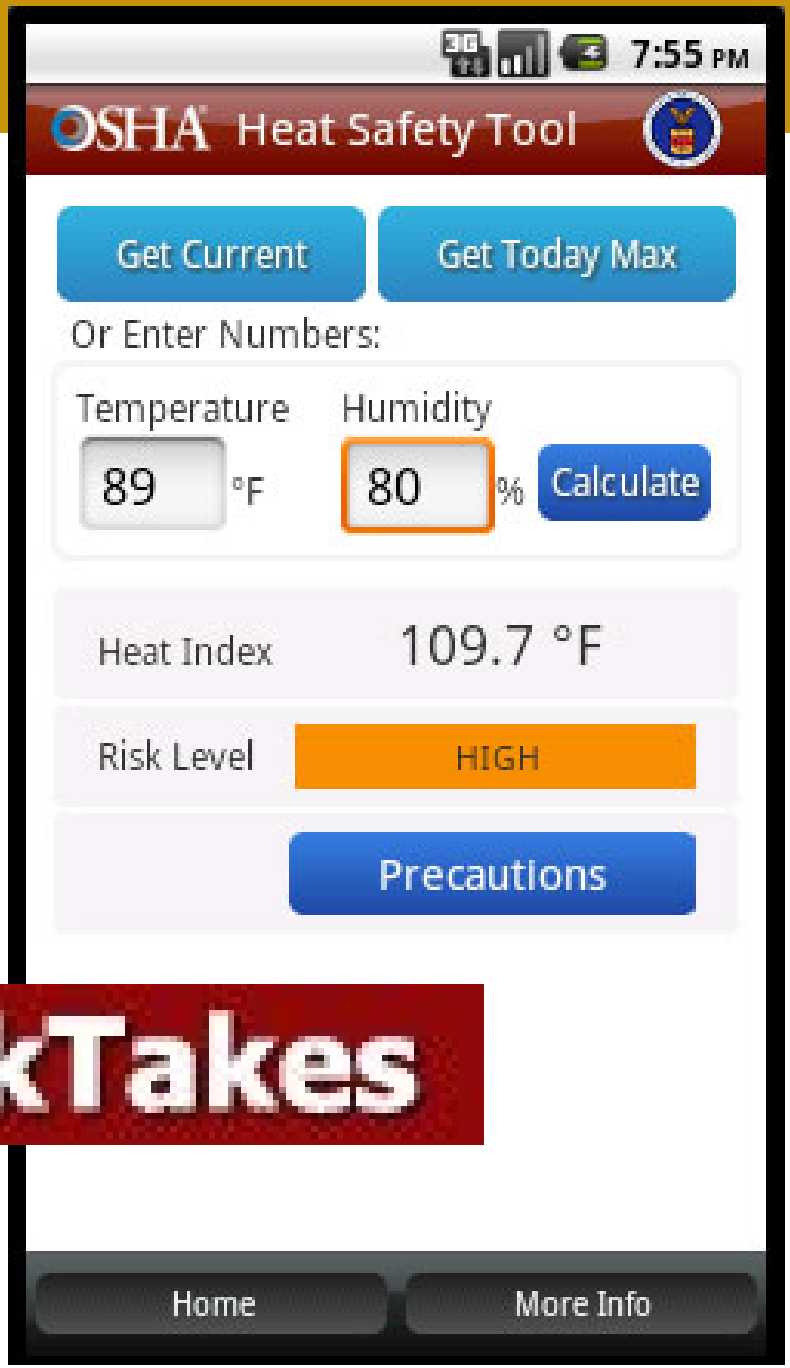
Check Your Destination



Heat / Humidity Stress



Heat App

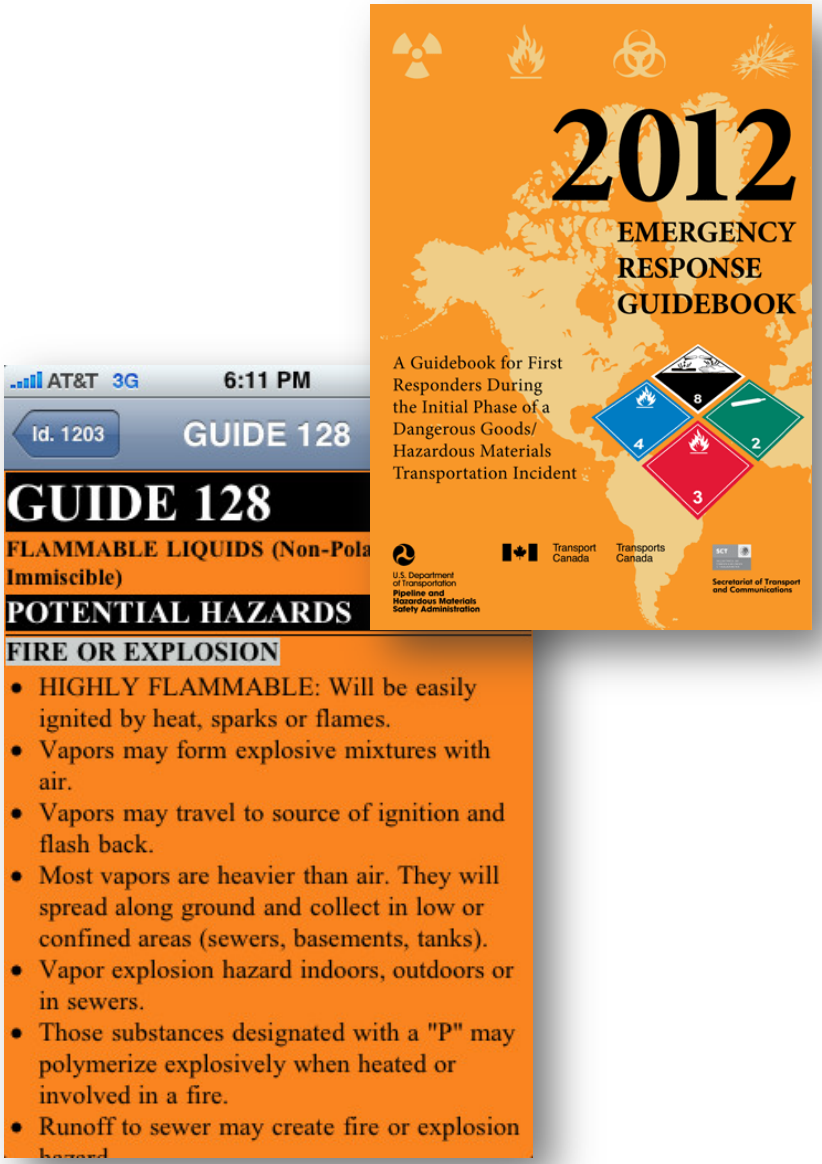


OSHA QuickTakes

Car Seat and Heat Warning App

The First Years Brand from TOMY International has an Alert System that Calls Smartphone to Warn of Faulty car Seat Restraint, Excessive Heat or if Child Left Behind

There's an App for That



St. Louis, MO

July 12, 2012 - Apartment

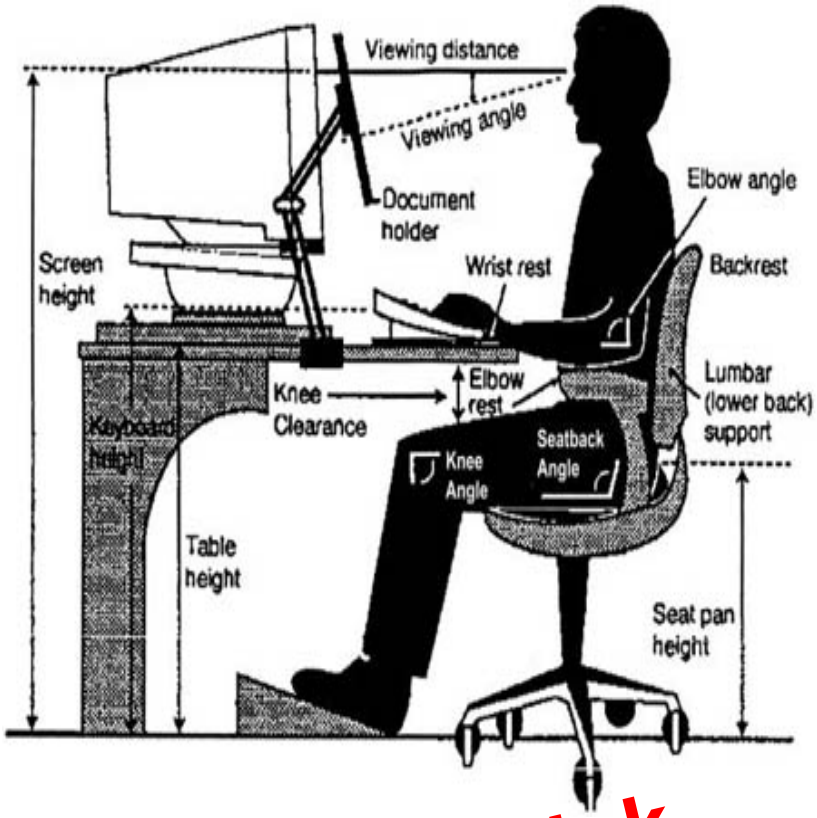
Naturalgaswatch.org/St,Louis Today

Beware of Vicious Dogs

- **May 20-26 is National Dog Bite Prevention Week**
- **Dogs Bite More than 4 million People Each Year**
- **Most of These Victims are Children and Senior Citizens.**

Computer Fatigue – The 3 R's

- **Readjust**
  - The Screen Make Sure You are Looking Down
- **Refocus**
  - look 20' Away at Least Once Every ½ Hour
- **Remove**
  - Your Whole Body at Least Once an Hour



And Don't Forget to Blink

Tool Safety

Machetes and

Brush Hooks

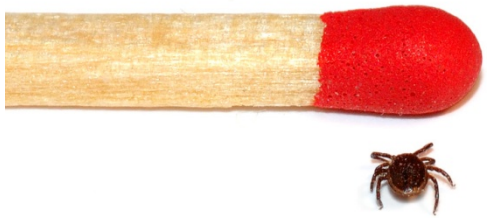
Need Scabbards

Hazardous Plants

- **Poison Ivy Creeper**

Hazardous Insects

Ticks



Recluse Spider

- About ½ Inch Long
- A Distinct Violin-Shaped Patch on its Head and Mid-Region

Questions

Forming Partnership.
Delivering Results.
www.skw-inc.com

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