

# Stoneybrook Village Preparedness Workshop #6

- AGENDA

- Hazards Overview
- 4 Steps of Preparedness
- Prepare for the worst (earthquake)
- Water in a Disaster
- Next Steps
- How to shut off Water & Gas
- Hands-On: shutting off gas & Water
- Door Prizes ! *Courtesy Linn Co. Health*

# It Takes A Village:

## Your SVOA Preparedness Committee

Steven Napack – Chair

Darrel Bibler

Linda Chisholm

Kendall Clapper

Sheila Coxon

Jan Napack

Plus:

Walt Derlacki

Judy Harrod

Tom Payne

&

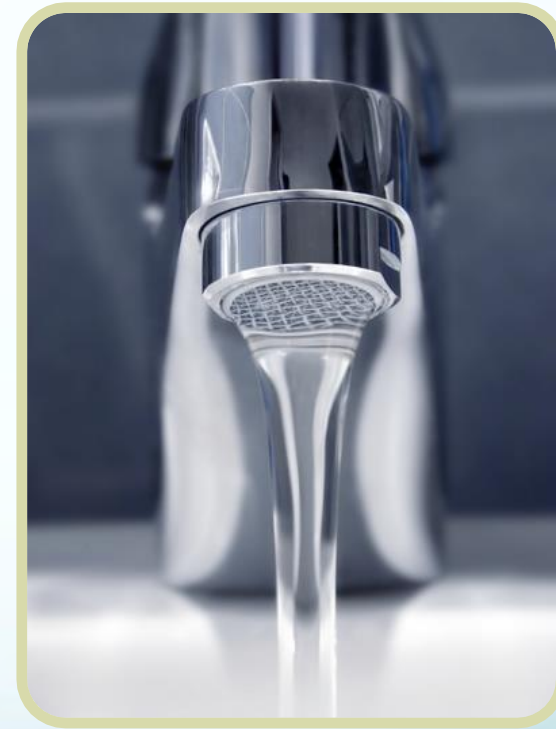
**Volunteers: WE NEED YOU!**

*Inspired by the memory of Jane Fleischbein*

# Have you ever thought about how to prepare for an emergency?

How would you:

- Cope without power or tap water?
- Contact your family and receive information?
- Look after your family for ~~72~~ hours?
- **2-6 weeks!**



# Emergency Preparedness Four Steps



# Learn the four steps to getting prepared:

- Be Informed
- Make a plan
- Get equipped
- Review & Drill



# STEP 1: Be Informed

- Types of emergencies
- Best responses
- Community plans



# STEP 1

## Be Informed: Risks in your region

The consequences of emergencies can be similar, but knowing the risks in your region can help you better prepare.

*Brainstorm: What do you think the risks are?*



# Northwest Hazards



- **Chemicals**
- **Earthquakes**
- **Fires**
- **Floods**
- **Pandemics**
- **Severe weather**
- **Terrorism**
- **Tornadoes**
- **Tsunamis**
- **Volcanoes**
- **Water leaks**
- **Winter storms**





<b>Number</b>	<b>Date</b>	<b>Incident Description</b>
<a href="#"><u>4258</u></a>	02/17/2016	<a href="#"><u>Severe Winter Storms, Straight-line Winds, Flooding, Landslides, and Mudslides</u></a>
<a href="#"><u>4169</u></a>	04/04/2014	<a href="#"><u>Severe Winter Storm</u></a>
<a href="#"><u>4055</u></a>	03/02/2012	<a href="#"><u>Severe Winter Storm, Flooding, Landslides, and Mudslides</u></a>
<a href="#"><u>1964</u></a>	03/25/2011	<a href="#"><u>Tsunami Wave Surge</u></a>
<a href="#"><u>1956</u></a>	02/17/2011	<a href="#"><u>Severe Winter Storm, Flooding, Mudslides, Landslides, And Debris Flows</u></a>
<a href="#"><u>1824</u></a>	03/02/2009	<a href="#"><u>Severe Winter Storm, Record and Near Record Snow, Landslides, and Mudslides</u></a>
<a href="#"><u>1733</u></a>	12/08/2007	<a href="#"><u>Severe Storms, Flooding, Landslides, and Mudslides</u></a>
<a href="#"><u>1683</u></a>	02/22/2007	<a href="#"><u>Severe Winter Storm and Flooding</u></a>
<a href="#"><u>1672</u></a>	12/29/2006	<a href="#"><u>Severe Storms, Flooding, Landslides, and Mudslides</u></a>
<a href="#"><u>1632</u></a>	03/20/2006	<a href="#"><u>Severe Storms, Flooding, Landslides, and Mudslides</u></a>
<a href="#"><u>1510</u></a>	02/19/2004	<a href="#"><u>Severe Winter Storms</u></a>
<a href="#"><u>1405</u></a>	03/12/2002	<a href="#"><u>Severe Winter Windstorm with High Winds</u></a>
<a href="#"><u>1221</u></a>	06/12/1998	<a href="#"><u>Oregon Flooding</u></a>
<a href="#"><u>1160</u></a>	01/23/1997	<a href="#"><u>Severe Winter Storms/Flooding</u></a>
<a href="#"><u>1107</u></a>	03/19/1996	<a href="#"><u>Severe Storms/High Winds</u></a>
<a href="#"><u>1099</u></a>	02/09/1996	<a href="#"><u>Severe Storms/Flooding</u></a>
<a href="#"><u>1061</u></a>	08/03/1995	<a href="#"><u>Flash Flooding</u></a>





Winter storms

10

Snow storm, Corvallis 2014

Stoneybrook Village  
Emergency Preparedness



# Winter Storms

- ❑ January, 1950 storm – piled 54.7 inches of snow in Albany
- ❑ 1962 “Columbus Day Storm” - 127mph wind gusts in Corvallis



- ❑ February 2002 wind storm - 88 mph gusts
- ❑ 2006 Wind Storm – 50-80 mph gusts, 18 deaths
- ❑ 2014 Stoneybrook Village had 20” of snow  
*(and the City didn’t plow!)*



## **Willamette Valley Flood 1996**

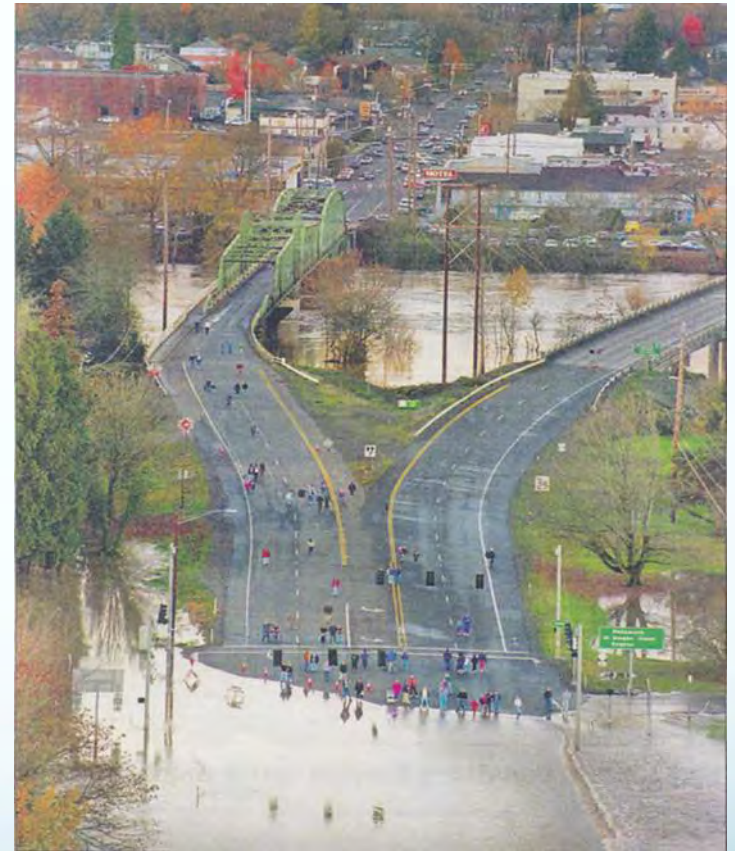
12

Stoneybrook Village  
Emergency Preparedness



# Floods

1964



1996

2012



13

# **Wild Fires**

## **Timberhill Fire**

### **Corvallis, OR, 2014**







# **TORNADO**

## **SE of Salem, Oregon 12/14/10**





# Chemical spill closes section of Highway 20 – June 21, 2011





# Volcanoes – Mt St Helens, 1980





# Earthquakes Japan, 2011 Similar geology



# Recent Significant Oregon Quakes





- (1700 01 26 – Offshore Oregon - Magnitude 8.7 – 9.2 est.)
- (1910 08 05 – Offshore Oregon – Magnitude 6.8)
- 1993 03 25 – Mt. Angel Oregon - Magnitude 5.6
- 1993 09 21 - Klamath Falls – Magnitude 6.0
- 1993 12 04 – Klamath Falls – Magnitude 5.1
- 2002 05 15 – Klamath Falls – Magnitude 4.3
- 2002 06 29 – Mt Hood – Magnitude 4.5
- 2003 01 16 – Offshore Oregon – Magnitude 6.3
- 2004 08 18 – Off Newport Oregon, - Magnitude 4.7
- 2004 07 12 – Off Florence Oregon - Magnitude 4.9
- 2009 02 26 – Grants Pass Oregon – Magnitude 4.2
- **2015 06 02 – 300 mi. W. of Salem – Magnitude 4.2 – 5.9**

source: [http://earthquake.usgs.gov/regional/states/historical\\_state.php#oregon](http://earthquake.usgs.gov/regional/states/historical_state.php#oregon)





# The Corvallis Fault

-  Approximate Fault
-  Concealed Fault
-  Contact Fault
-  Direction of Thrust

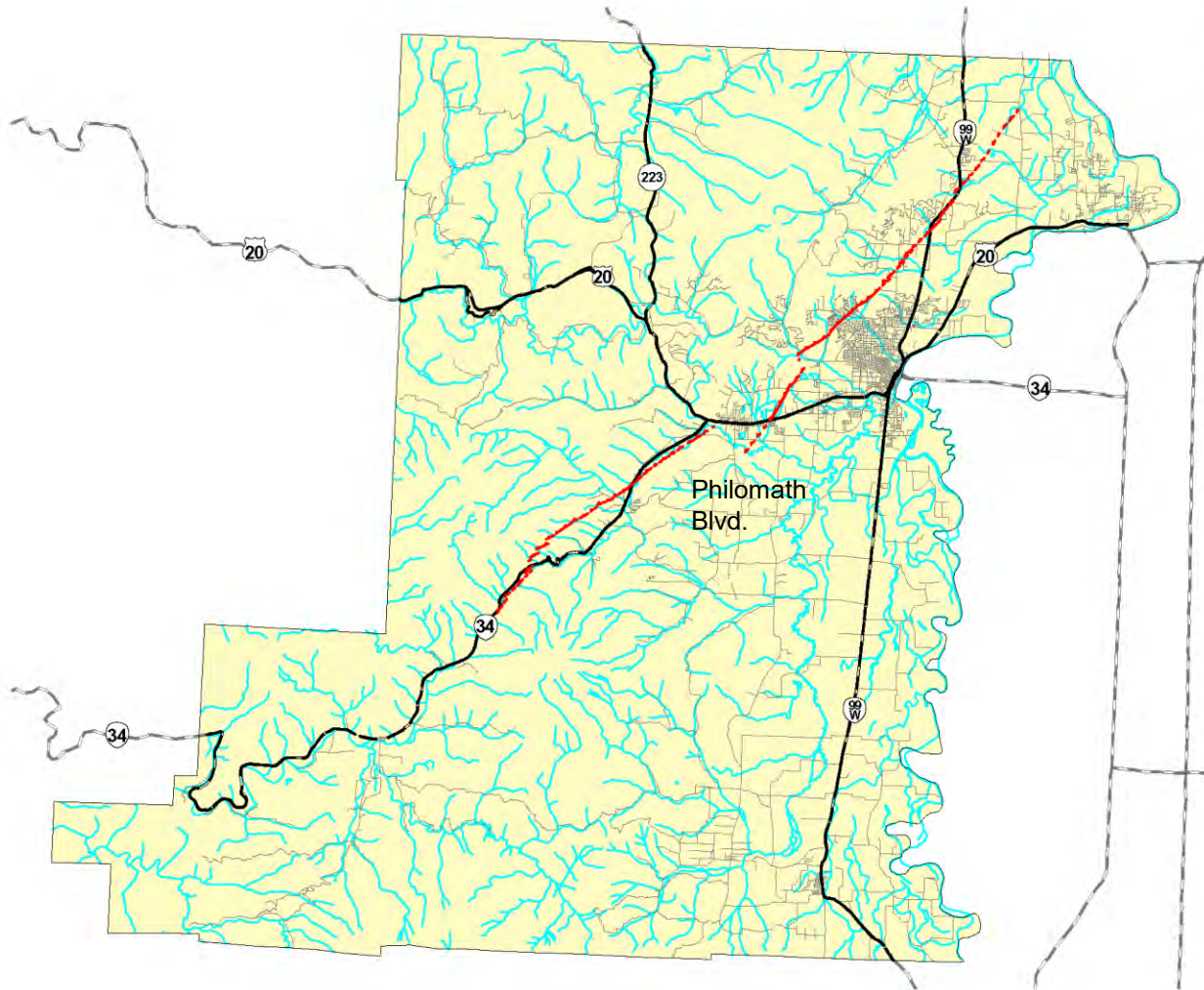
*It has not been determined whether the Corvallis Fault is active\* or not, but it is considered a zone of weakness that could be the source of a future earthquake.*

*This map should not be regarded as site-specific in planning or proposing development relative to the fault location. Site specific work should be completed by a consulting engineering geologist using the map for planning purposes only.*

*The source of this information is Chris Goldfinger, for the degree of Master of Science in Geology, presented on May 31, 1990, "Evolution of the Corvallis Fault and Implications for the Oregon Coast Range," Oregon State University.*

*\* "Active" in geological terms is having evidence of Holocene period deformation.*

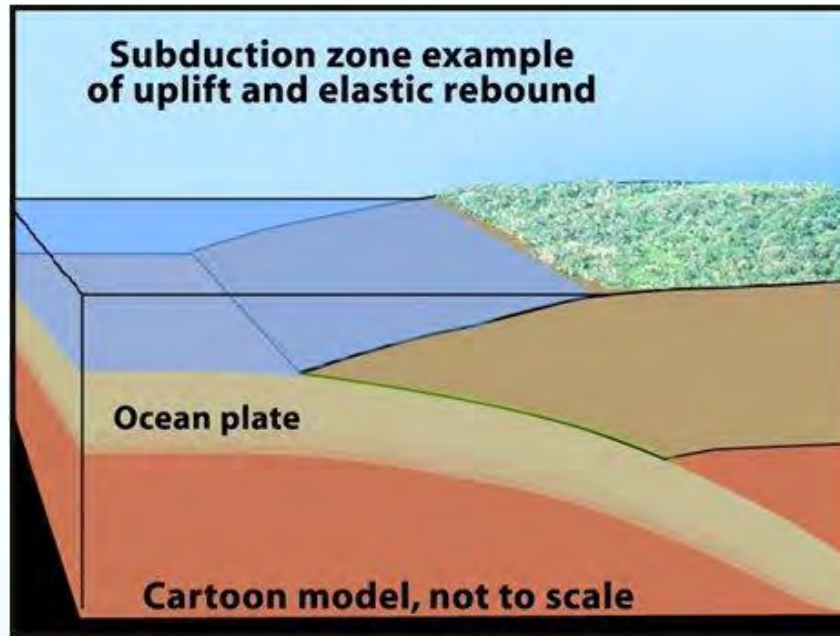
4 0 4 Miles





# Earthquakes

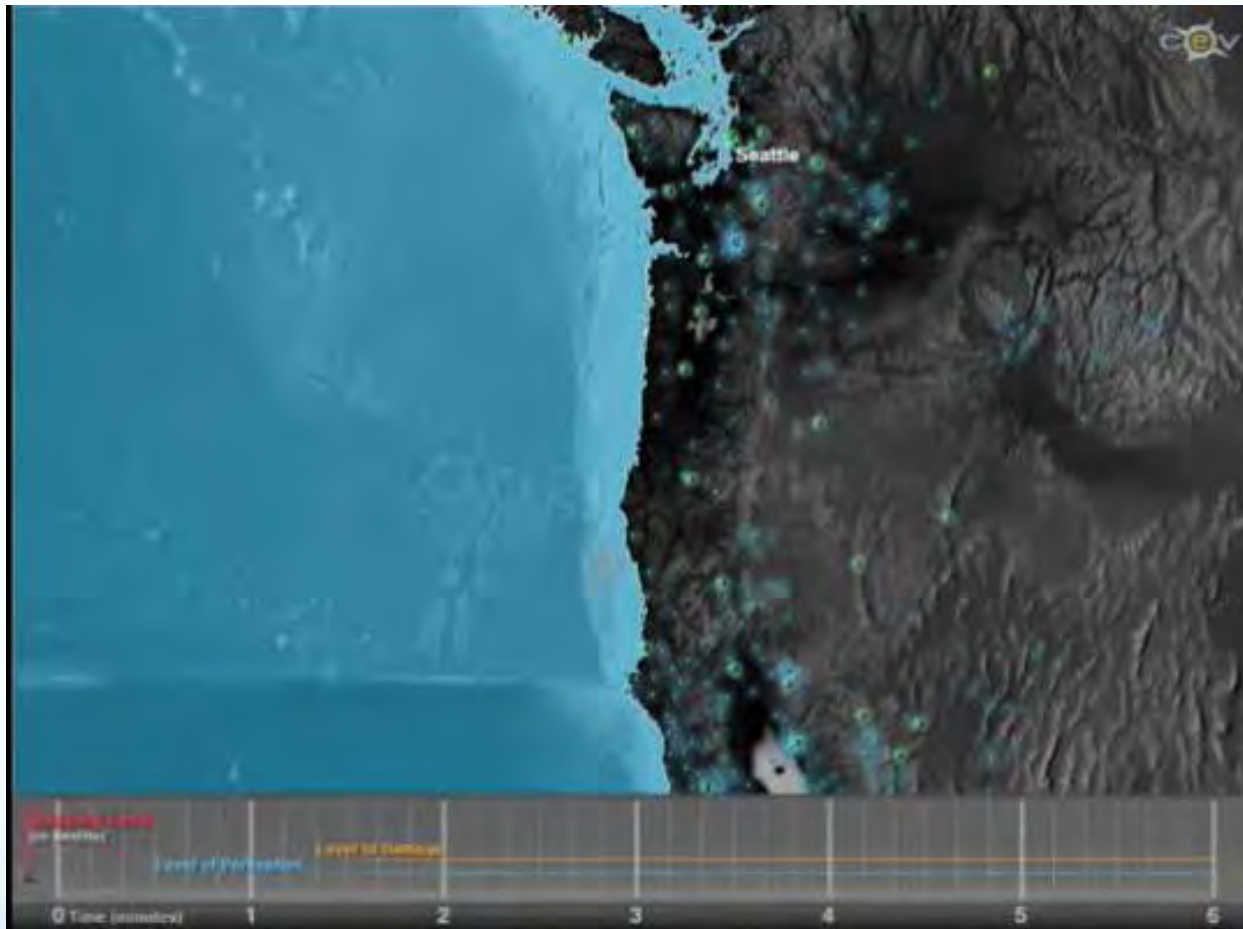
- ❑ The Cascadia subduction zone is the largest active fault in North America (outside of Alaska)



Developed by Jenda Johnson, <http://orgs.up.edu/totle/index.php?q=node/428>

- ❑ It is virtually the same geology as the 2004 Sumatra 9.1 Quake, 2010 Chile 8.8 quake, and the 2011 Japan 9.0 Quake

# This is what we mean by Region-wide Disaster



Animation by Steve Malone, Pacific NW Seismic Network <http://orgs.up.edu/totle/index.php?q=node/427>

# EARTHQUAKE

- Drop! Cover! Hold on Tight!
- Do **NOT** stand in a door frame. Do **NOT** stand next to large furniture.
- If driving, pull over to an area clear of power lines, trees, bridges or overpasses
- Get to safer ground (high ground if by ocean, away from landslide hazards if near mountain, etc). There may be aftershocks.

# EARTHQUAKE

- Wear sturdy shoes and long, thick pants. There is likely to be lots of broken glass.
- After ensuring family safety, turn off gas at the meter (an automatic shut-off valve is a good idea).
- **ALWAYS** have a professional turn back on gas.



# PREPARE TOGETHER

- Community
- Neighborhood
- Self and Family



# STEP 2

## Make a plan

You aren't prepared — until you make a plan.

- Planning Checklist in Orange Booklet
- Photocopy your plan
- Keep copies of your plan in safe and memorable places



# STEP 2: Make a Family Emergency Plan

Sit down and plan:

- Communication
- Meeting places
- Evacuation procedures
- Getting help
- Family roles and responsibilities



# STEP 3

## Get Equipped

To prepare for an emergency that could last 72 hours or more, what would you need?



# STEP 3: Get Equipped



Home supplies



Smaller evacuation kit



If possible, office or car kit

# NEEDS IN A DISASTER

- **BRAIN STORM:** What do **YOU** need? What do your family members need?
- Needs in a disaster are similar to everyday needs.
  - Safety
  - Food and Water
  - Hygiene
  - Shelter
  - Health Care and First Aid
  - Need to know loved ones are safe, and let loved ones know you are safe



# STEP 4: Review & Drill

- A PLAN is only as good as your ability to execute.
- Your PLAN should be a living document. It will never be complete or cover all circumstances.
- Your gear is only good if you know how to use it.

# Four steps to getting prepared:

- Be informed
- Make a plan
- Get equipped
- Review & Drill



# Where do you go from here?

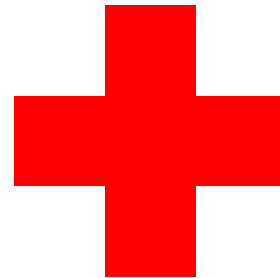
**Think  
Talk  
Plan  
Act**

# Be Informed

[www.ready.gov](http://www.ready.gov)



Stoneybrook  
Village  
Preparedness  
Committee  
Workshops



**American  
Red Cross**

<http://www.svoa-corvallis.org/preparedness-committee.html>

Stoneybrook Village  
Emergency Preparedness

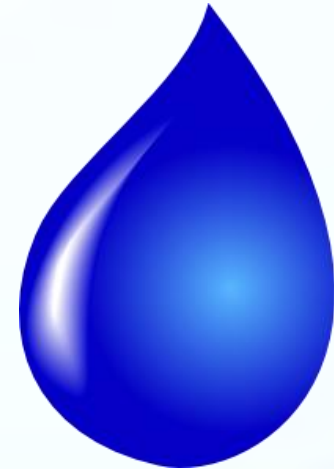


# Water, Water Everywhere, and Not a Drop to Drink!



# WATER

- Clean water is crucial!
- 1 gallon per day per person
  - More in hot or dry seasons
  - More if working hard
- What water is used for:
  - Drinking
  - Rehydrating food
  - Hygiene
  - Cleaning wounds
  - Watering survival gardens
    - 1 cup per outdoor plant a day



# Our Water Supply is Fragile

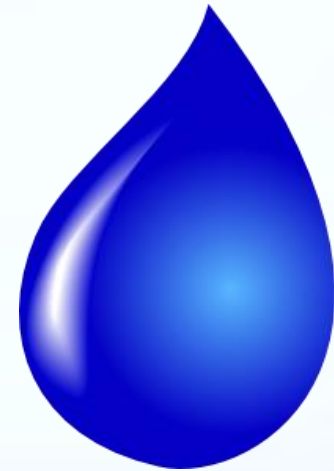
- April 16, 2014 Portland dumped 38-million gallons
- April 22, 2014 Corvallis Water Main Break
- May 24, 2014 Portland dumped 41-million more gallons  
“Boil Water Alert”
- July 10, 2014 Corvallis Water Main Break

*How secure is our water supply after disaster?*

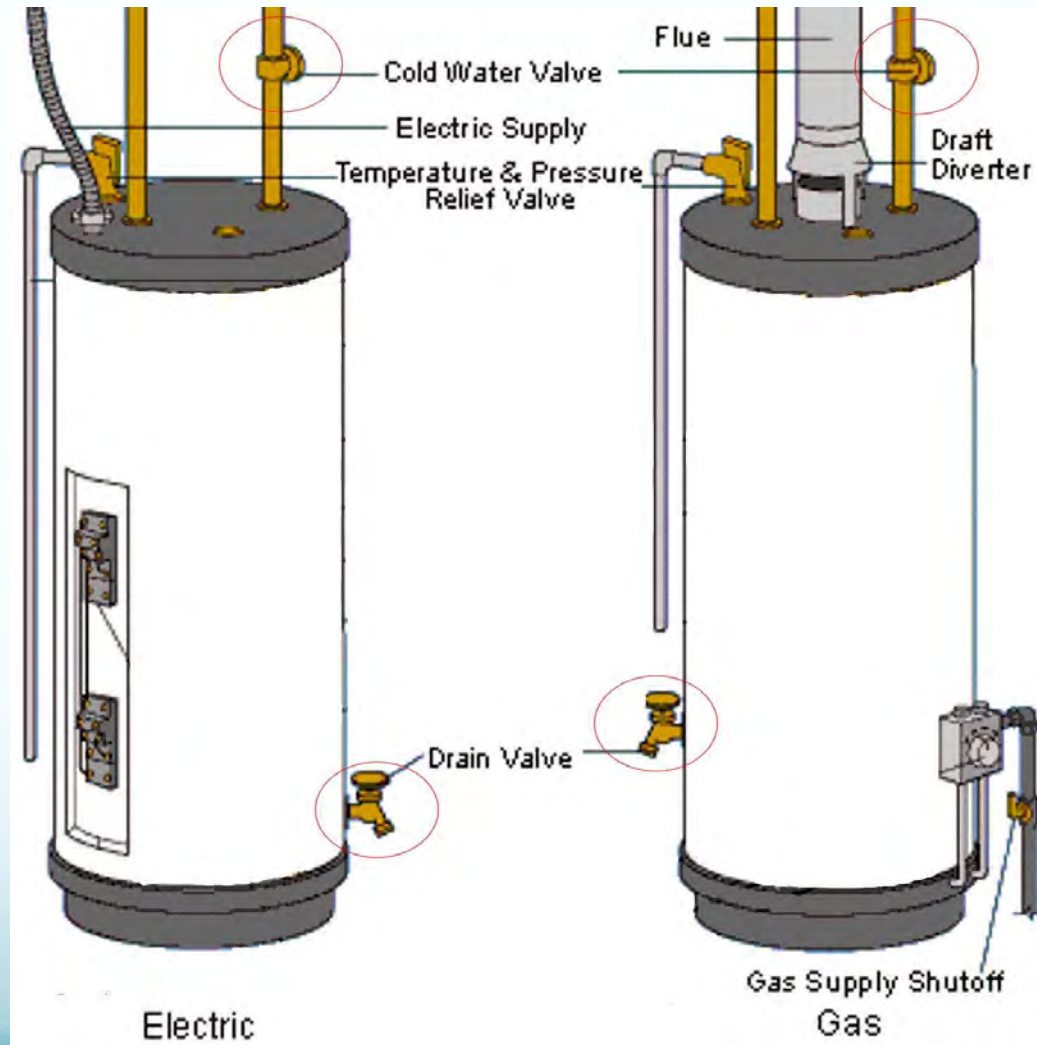


# WATER

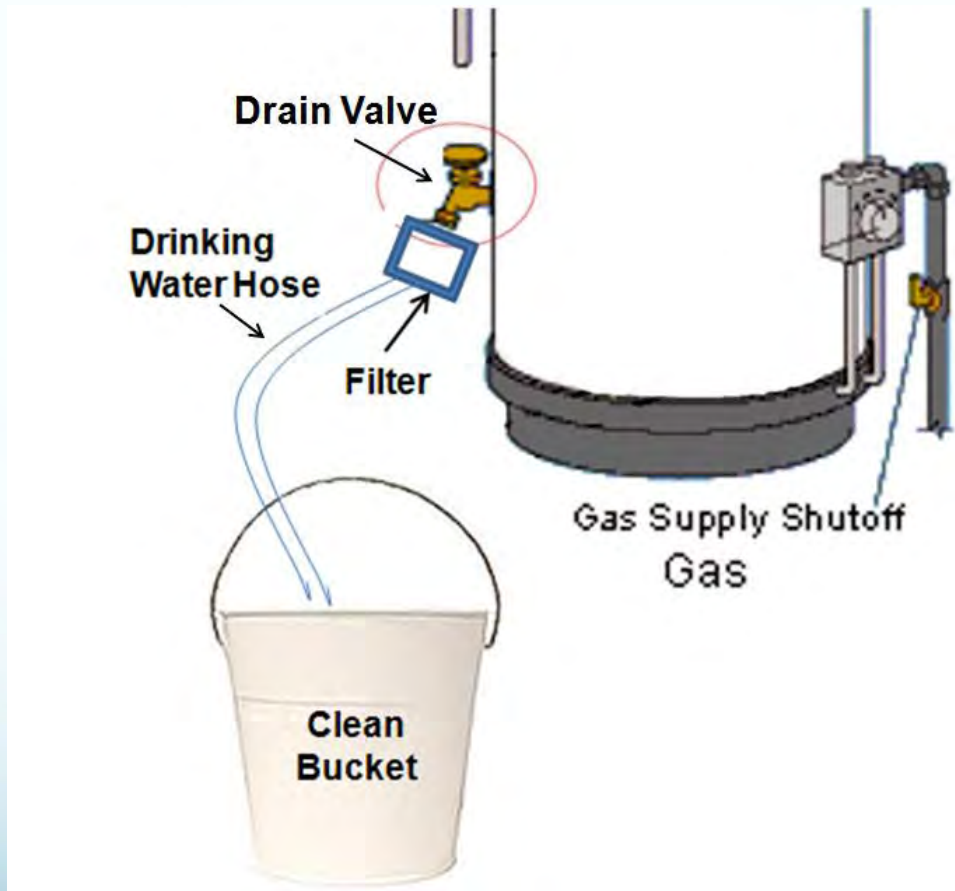
- **BRAINSTORM:** Where would you get water after a major disaster?
  - Bottled Water
  - Stored Water
  - Fill bathtub in advance
  - Toilet Tanks
  - Streams/Willamette
    - Treatment
  - **Water Heater**



# EMERGENCY WATER FROM YOUR WATER HEATER



# EMERGENCY WATER FROM YOUR WATER HEATER



1. Shut off Gas to Heater
2. Shut off Cold Water
3. Drain Filter (optional)
4. Drinking Water Hose
5. Clean bucket
6. Open any hot water faucet to let air in.
7. Open Drain Valve



# Water Heater Emergency Kits

## Group Order

*If we get 10 or more...~\$35-\$45*



Water Treatment



Instructions



Drinking Water Hose



Screen Filter

*Sign up at check-in desk*

# WATER

- **PROTECTING YOUR WATER SUPPLY**
  - Notified by City of contamination?
    - Follow instructions
  - Broken water main nearby
    - **Shut off water** on Main side to protect your home
  - Broken pipe between home and water main
    - **Shut off water** on home side
  - Broken pipe within home
    - **Shut off home water valve**, usually in garage
  - Earthquake
    - **Shut off water** on Main side to protect your home
    - **Shut off water to water heater**

# MAIN WATER VALVES





# MAIN WATER VALVES





# MAIN WATER VALVES





# MAIN WATER VALVES





# MAIN WATER VALVE TOOLS



# NATURAL GAS

Do you know where your gas  
meter is and how to shut it  
OFF?

# WHEN TO SHUT OFF GAS

***ALWAYS, GET YOU AND YOUR FAMILY TO SAFETY FIRST!***

- If you smell the gas “rotten egg” smell in your house:
  - **Smell. Go. Let us Know.**
- If you are pretty certain it is a leak (Hear it? See it?), shut off gas at meter *if can be done safely*.

# WHEN TO SHUT OFF GAS

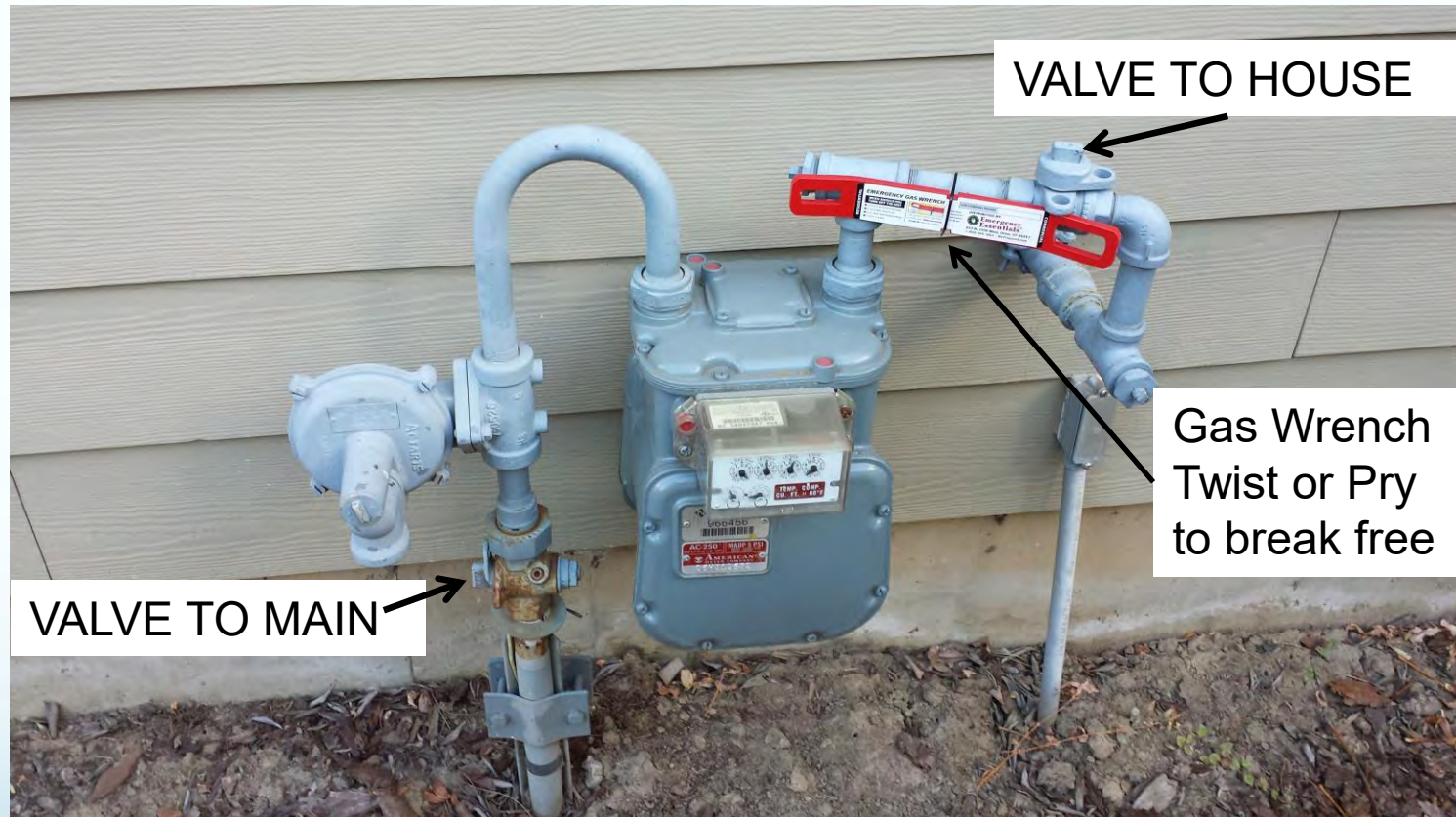
***ALWAYS, GET YOU AND YOUR FAMILY TO SAFETY FIRST!***

- AFTER AN EARTHQUAKE, GAS LINES MAY RUPTURE OR LEAK
- If your home is severely damaged, shut off gas at the meter *if can be done safely*.
- If you smell gas inside the home, shut off gas at the meter
  - Be aware- it may be weeks before the gas company can turn it back on.
- If you smell gas outside the home, VACATE THE AREA!

***NEVER TURN THE GAS BACK ON YOURSELF!***

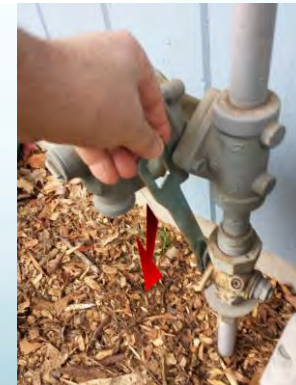
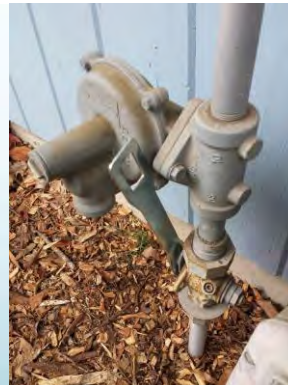
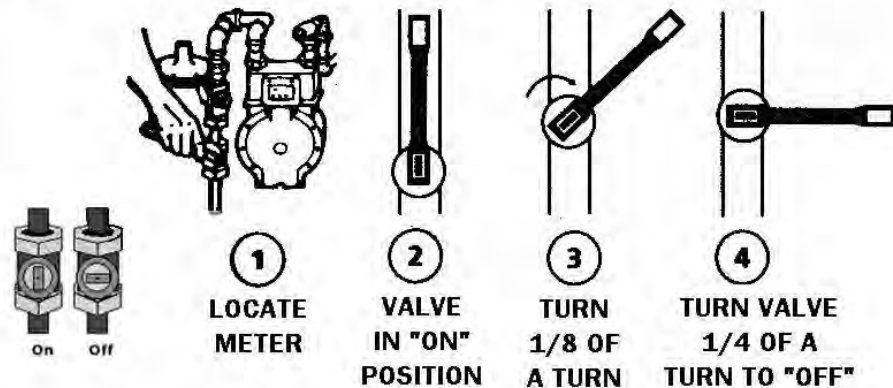


# GAS METER



## After major earthquake or natural disaster

1. Remove reusable tie by squeezing tab or use wrench to twist tie until it breaks.
2. Use the Survival Tool to turn the main gas shut-off valve (only if you detect a gas leak) to "OFF" position by turning 1/4 of a turn.
3. When you are ready to restore your gas service, call the gas company or a qualified plumber to turn it back on for you.



# Gas Shut-Off Tool Group Order

*If we get 10 or more...~\$5*



*Sign up at check-in desk  
(available at Robinett's, Home Depot, Amazon)*

# Upcoming Workshop Topics

- How to build your own emergency kit(s)
- The SVOA Preparedness Plan
- CERT- Community Emergency Response Team
- Building a household plan
- First Aid / CPR



Let's try it for practice

# PRIZES!!

Donated by Linn County Health

*Everyone who helps themselves by getting prepared is one less problem in a disaster.*