

# Prepare! A RESOURCE GUIDE



**Serving Oregon and Southwest Washington** 

redcross.org/cascades





#### Introduction

Disaster can strike at any time. Whether it's a house fire at 3 a.m. or a 9.0 magnitude earthquake at 3 p.m., a single disaster can change your physical, emotional and financial health in a matter of seconds. And while the American Red Cross and other partner agencies work 365 days a year to prevent and respond to emergencies, disaster preparedness starts with you.

This book will guide you through the steps you and your family need to follow to be self-sufficient after a major disaster. It will inform you about your disaster risks, walk you through making a family disaster plan and guide you step-by-step in creating a disaster kit. It will also discuss specific

disasters with guidance on what to do before, during and after certain situations that are common in the Pacific Northwest.

It's impossible to predict every emergency, but you can take steps right now to lessen the effects, and in many cases, prevent these disasters from happening in the first place. So take advantage of this resource. Complete the checklists and share it with family, friends and co-workers. Keep it in a safe place with your other disaster items. Knowing what to do in a disaster situation and being able to respond calmly and with confidence can save your life.

#### **Table of Contents**

1.	Be informed	3
2.	Make a plan	5
3.	Get a kit	6
4.	Download the Red Cross Apps  Put disaster preparedness in the palm of your hand.	9
5.	Preparing for specific disasters  What to do before, during and after these disasters  Residential fire  Wildfire  Earthquake  Tsunami  Winter storms  Flood  Landslide  Medical emergencies  Biological or chemical threat, terrorism or pandemic flu  Volcanoes	10
6.	Individuals with access and functional needs	20
7.	Seniors	21
8.	Your mental health	21
9.	Preparing your pet for disaster	22
10.	What you need to know about your utilities	23
11.	What you need to know about water and water storage	24
12.	Additional resources	25
13.	Be Red Cross Ready checklist	27
14	Free smoke alarm installation had	ck cover

#### 1. Be Informed

Before you make a plan and build a kit, it's important to know what disaster risks you face. The Pacific Northwest is known for its natural beauty, but behind this beauty lays great risk. We're all vulnerable to house fires, wildfires, earthquakes, floods and dangerous winter weather conditions. Also, depending where you live, you may be at risk for tsunamis and landslides. The content in this section provides an overview on disasters in your region and information on how local emergency agencies will notify you.

#### Regional risks

Below is a snapshot of some risks you may face in the Pacific Northwest.

- Home fires—The Cascades Region of the Red Cross responds to home fires more than any other type of disaster. Fire experts agree that people may have as little as two minutes to escape a burning home before it's too late to get out. Fires kill more Americans each year than all natural disasters combined and only 26 percent of families have developed and practiced a home fire escape plan. (For more information, see p. 10)
- Wildfire—Parts of Oregon and Washington are prone to deadly wildfires. Droughts and dry conditions throughout the year increase wildfire risk. Careless use of fire in highly wooded areas can also dramatically increase the chance of a wildfire, that can then quickly spread across trees and dry brush and threaten homes and businesses. (For more information, see p. 11)
- Earthquake—Earthquakes strike suddenly, without warning, and they can occur at any time of the year, day or night. Residents and visitors to the Pacific Northwest face serious risk of crustal earthquakes, including the threat of a high-magnitude quake caused by the Cascadia Subduction Zone, a 600-mile fault line off the Oregon, Washington and California coasts. (For more information, see p. 12)
- **Tsunamis**—With the risk of earthquakes comes the risk of tsunamis, a series of large ocean waves generated by major earthquakes beneath the ocean floor or major landslides into the ocean. When the waves enter shallow water, they may rise to several feet or, in rare cases, tens of feet, striking the coast with devastating force. (For more information, see p. 14)
- Floods—Floods are among the most frequent and costly natural disasters. Conditions that cause floods include heavy or steady rain for several hours or days that saturates the ground. Flash floods occur suddenly due to rapidly rising water along a stream or low-lying area. (For more information, see p. 16)
- Winter storms—Heavy snowfall, ice storms or extreme cold can immobilize our entire region. Even with our mild Northwest winters, we can experience paralyzing cold. Storm results can range from isolation to major traffic hazards or icy highways. (For more information, see p. 15)

#### **Indoor risks**

In addition to knowing your external risks, it's equally important to look around your home and office to identify problem areas. Do a "hazard hunt" in your home. Find items that might fall during an earthquake and secure them. Look for fire hazards, such as frayed wires and overloaded outlets and make them safe. Ask yourself questions like:

- Do I know the number and location of all smoke detectors in my house?
- Do I know how to test them and how often to replace the batteries?
- Do I have a fire extinguisher and know how to use it?
- Do I know how to identify a gas leak?
- Do I know how to shut off our water, power and natural gas sources?
- Do I know how to properly store water?

All of these questions and many more will be answered throughout this resource guide.

#### Know how you'll be notified

Public safety officials will communicate with the public in several different ways depending on the situation. These communication tools may include:

- The Emergency Alert System (EAS) on television, radio and National Oceanic and Atmospheric Administration (NOAA) weather radios;
- Wireless Emergency Alerts (WEA) available on many smartphones:
- Community emergency notification systems at the county or city level. These systems typically send messages to landline phones and to cell phones, and email addresses to those who opt in. Residents in the greater Portland-Vancouver metro area and surrounding counties can sign up for their local system by visiting www.publicalerts.org;
- The local media;
- Social media including Twitter, Facebook and other social media tools; and
- Door-to-door notifications (in some instances).

# Know the difference between an advisory, watch and warning

When you are alerted about a disaster, oftentimes a warning level will be associated with it. For example, a radio broadcast may announce a winter storm warning in your area, or a TV station may issue a wildfire watch or a tsunami advisory in your zip code. It's important to have an understanding of what this means, and know which warning level poses the most imminent threat. According to the National Weather Service Forecast Office, these terms are defined as:

#### Advisory

An advisory is issued when a hazardous weather event is occurring, imminent or likely. Advisories are for less serious conditions than warnings that cause significant inconvenience and if caution is not exercised, could lead to situations that may threaten life or property.

#### Watch

A watch is used when the risk of a hazardous weather event has increased significantly, but its occurrence, location or timing is still uncertain. It is intended to provide enough lead time so those who need to set their plans in motion can do so. A watch means that hazardous weather is possible. People should have a plan of action in case a storm threatens, and they should listen for additional information and possible warnings, especially when planning travel or outdoor activities.

#### Warning

A warning is issued when a hazardous weather or event is occurring, imminent or likely. A warning means weather conditions pose a threat to life or property. People in the path of the storm need to take protective action.

#### **Know your nearest resources**

Dial 2-1-1 (toll-free) if you need information about where to donate or volunteer during a disaster, how to find transportation or evacuation routes and where to get basic needs met such as food and shelter. You can also text your zip code to 898211 or visit <a href="https://www.211info.org">www.211info.org</a>.

#### **American Red Cross Cascades Region Chapters**

#### **Northwest Oregon Chapter**

Serves the residents of Clackamas, Clatsop, Columbia, Gilliam, Hood River, Lincoln, Marion, Multnomah, Polk, Sherman, Tillamook, Wasco, Washington and Yamhill counties.

Regional Office 3131 N. Vancouver Ave. Portland, Oregon 97227 Tel: (503) 284-1234

Salem Office 675 Orchard Heights Rd. NW Suite 200 Salem, Oregon 97304

## Tel: (503) 585-5414

Central and Eastern Oregon Chapter Serves the residents of Baker, Crook, Deschutes, Grant, Harney, Jefferson, Morrow, Umatilla, Union, Wallowa and Wheeler counties and Warm Springs Reservation.

Bend Office 815 SW Bond St. Suite 110 Bend, Oregon 97701 Tel: (541) 382-2142

#### **Southwest Oregon Chapter**

Serves the residents of Benton, Coos, Curry, Douglas, Jackson, Josephine, Klamath, Lane, Lake and Linn counties.

Eugene Office 862 Bethel Dr. Eugene, Oregon 97402 Tel: (541) 344-5244

Medford Office 60 Hawthorne St. Medford, Oregon 97504 Tel: (541) 779-3773

#### **Southwest Washington Chapter**

Serves the residents of Clark, Cowlitz, Klickitat, Pacific, Skamania and Wahkiakum counties.

Vancouver Office 3114 E 4th Plain Blvd. Vancouver, WA 98661 Tel: (360) 693-5821

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#### 2. Make a Plan

After a disaster, basic services may be unavailable. Plan for power outages, limited communication, road closures and lack of clean water. In the event of a major catastrophe, a delay in help from emergency responders is inevitable. Your pre-established emergency plan will help you to be safe and comfortable, and possibly make you available to help others, before outside help arrives.

#### **Talk**

- Talk with your family, friends and co-workers about how to prepare for and respond to emergencies.
- Talk with your neighbors to learn what resources they have, and how they might be pooled to help the community (e.g., generator, chain saw, medical skills, etc.)
- Learn each person's needs and abilities. For example, is someone vision impaired, hearing impaired or mobility impaired?
- · Identify your own risks and vulnerabilities.
- Identify each person's role and plan to work together as a team.

#### Plan

- Choose two places to meet up after a disaster. One should be near your home, in case of a local emergency like a fire. One should be outside your neighborhood, in case your entire area is affected by a larger disaster.
- Choose an out-of-state contact. Everyone in your family should have the contact's phone number to check in as safe. After a disaster, local phone lines may be down or jammed. It may be easier to make a long distance call than a local one. To let loved ones know you are safe, sign up on the Red Cross Safe and Well service by visiting www.redcross.org/safeandwell.

- Store emergency contact information in your cell phone under "ICE" for In Case of Emergency. Keep a landline with a corded phone, which doesn't need electricity.
- Consider insurance. Your residential policy may not cover damage caused by a disaster. In most cases, damage from a flood, earthquake or tsunami is not covered by your homeowner's policy. A separate policy is required.
- Learn what you need to do for your pet in a disaster situation. (For more information, see p. 22)
- If you have children in school, ask about the school's emergency plans.
- If you know someone in assisted-living facility, ask about the facility's emergency plans.

#### **Practice**

- Practice earthquake and fire drills twice a year. It's easy to remember to do it when you change your clocks.
- Practice escaping your home twice a year using multiple exit routes. Bring your emergency kit and pets, as you would in a real disaster. Make it fun for kids by having a picnic with your emergency supplies. Be sure to replace the supplies.



Do you have a smartphone? Making a preparedness plan is easy with Red Cross emergency apps. Visit page 9 to learn more.

## 3. Build a Kit

sup	ing prepared means being equipped with the proper oplies you may need in the event of an emergency or	Vehicle and work supplies (keep in plastic tub or other container with a lid)	
	aster. Keep your supplies in an easy-to-carry emergency eparedness kit that you can use at home or take with you	☐ Blanket(s) and/or sleeping bag	••••
	ou evacuate. Start with these items:	$\square$ Booster cables and tool kit (car only)	
	Water—one gallon per person per day for a <b>minimum</b> of three days*	☐ Bottled water (use a heavy plastic bottle specifically made for water storage and fill with tap water)	
	Food—items that don't need to be refrigerated or cooked	☐ Canned fruits/nuts	
	(e.g., peanut butter, canned meats, energy bars, canned fruits and vegetables, etc.)	☐ Manual can opener	
	First aid kit—include any prescription and over-the-	☐ Prescriptions	
	counter medications (see p. 7 for more information)	☐ Emergency flares and distress flag/sign	
		☐ First aid kit and reference guide	
Ad	ditional supplies*	☐ Cell phone charger	
	Flashlight (battery or alternative-powered)	Your personal kit should contain a minimum of three days	* of
	Radio (battery or alternative-powered)	supplies for one person in a bag or backpack. Keep a kit	
	Extra batteries	home, in your car and at work. Your family kit should contain	1
	Solar charger	two weeks of supplies for the entire family in a sturdy container, kept at home. Review your supplies every six	
	Copies of important documents	months. Replace any items nearing expiration dates.	
	Family contact information and copy of family's emergency plan	Assemble your own kit or buy one at <i>redcrossstore.org</i> .  "By the bed" mini-kit	
	Cash—small denominations, such as \$1 or \$5	Keep a sturdy pair of shoes, a flashlight and an extra pair	
	Pet supplies	glasses (if you wear them) in a bag attached to the foot of	
	Hygiene items such as toothbrush, toothpaste, soap, etc.	your headboard. If an emergency strikes at night, you'll be able to walk across debris and see where you're going.	Э
	Multi-purpose tool and work gloves	*NOTE: While the Red Cross recommends preparing	g
	Comfort items, such as toys, games, family photos, etc.	for a minimum of three days, every disaster is different and some situations may result in being	cut
	Manual can opener	off from resources for two weeks or longer.	-
	Duct tape and plastic sheeting	Understand your risks and plan accordingly.	
		There is a high probability that a Cascadia Subduction Zone earthquake, reaching a magnitude of nearly 9.0, will occur in our lifetime. Being	de



American Red Cross Cascades Region

prepared to be self-sufficient for two weeks is an achievable goal. You can get there over time, you

don't have to get there today.

Fir	st aid kit	Sa	nitation
Ch	can buy a first aid kit or build one using the list below. eck and replenish first aid supplies yearly. Consider		Large plastic trash bags (for trash, waste and water protection)
	rolling your family in a first aid class. Children over the age 10 can be enrolled in Red Cross basic first aid training.		Large trash can
	it www.redcross.org to buy a kit or register for a class.		Bar soap and liquid detergent
	Disposable gloves, 2 pairs		Shampoo
	Scissors and safety pins		Toothpaste/toothbrushes
	Roll of gauze and elastic bandages		Feminine and infant supplies
	Non-stick sterile pads (different sizes)		Toilet paper
	Assorted adhesive bandages		Household liquid bleach for water purification, plus
	Triangle bandages, 3	_	eyedropper for measuring (See Water Storage, p. 24)
	Aspirin or substitute*		Newspaper to wrap garbage and waste
	Antibiotic ointment*		Pre-moistened towelettes
	Antihistamines*		Bucket, plastic trash bags, bleach and two boards to construct a makeshift toilet
	Sanitary napkins		conduct a maxocimi tollot
	Current prescription medicines*	To	ols and supplies
	Disinfectant (for cleaning wounds)*		Crescent wrench, 12 inches or longer (store near
	Petroleum jelly		natural gas shut-off in waterproof container)
	Cotton balls		Axe, shovel, pry bar, broom
	Sunscreen		Screwdrivers, pliers, hammer
	Thermometer		Coil of 1/2 inch nylon rope (50 feet)
	Tongue depressors, 2		Pocket knife and staple gun
	Soap and clean cloth / moistened towelettes		Pen and paper (stored in watertight container)
	Waterless hand cleaner		Heavy gloves for cleaning up debris
	Tweezers / needle		Sturdy shoes (keep pair by bed)
	Eye dressing or pad		Clothes for protection from cold and rain or extreme heat
	Paper tape		Matches, kept in waterproof, child-resistant container
	Small plastic cup		Glow sticks or light sticks
	Pen and note paper		Garden hose with shut-off nozzle for fighting fire
	Emergency phone numbers		Tent and tarps
	American Red Cross first aid reference guide or first aid manual		Whistle to signal for help
	Include non-prescription medications, including pain relievers, antacids, ipecac, laxatives, hydrocortisone cream and vitamins*		
	ep all medications in original containers. Check expiration		

#### **Financial preparedness**

# Four Ways to Keep Finances Intact in a Natural Disaster

To prevent a natural disaster from becoming a financial catastrophe, take the following steps:

- **1. Stockpile savings.** An emergency fund with three to six months' worth of savings is a key part of any household financial plan. But it's also important in an emergency. Funds that you can draw on quickly and easily can be a lifesaver in the wake of a natural disaster.
- 2. Protect your credit. Part of protecting your finances involves protecting your credit. Include the contact information for your creditors—such as your mortgage lender, credit card companies and utilities—in your financial preparedness kit. If you have to evacuate, reach out to your creditors as soon as possible to request a temporary reprieve from payments.
- **3. Review your insurance.** Your insurance policies can help you recover financially from a disaster, provided you have the right coverage. Review your property, flood, life and disability insurance policies once a year when you receive the new documents from your insurer.

4. Put together an emergency kit with important documents. Some people rent bank safe deposit boxes for important papers. It's also recommended to scan important documents and save them electronically, whether by e-mailing important documents to yourself, saving documents to a thumb drive or storing important documents to the "cloud." In addition, it's a good idea to prepare an emergency kit to store at home, containing photocopies of those you're likely to need after a disaster. Your emergency kit should be a fireproof, waterproof, lock box in a place that's easily accessible. Once assembled, mark your calendar with a reminder to go through it in a year to make sure the contents remain current. For additional security, consider sending copies of vital documents to a trusted family member or friend who lives in a community far enough away that it's unlikely that it would also be hit if a large-scale disaster should strike. Some items to consider including in your emergency kit include: ☐ A small amount of cash (in case your bank is inaccessible) ☐ Birth, death and marriage certificates ☐ Negatives of irreplaceable family photos stored in protective plastic sleeves □ Adoption papers ☐ Photos or video of possessions ☐ Military records □ Social Security cards ☐ Mortgage/property deeds □ Car titles ☐ Insurance policies ☐ List of credit card and debit card numbers, including "800" contact numbers □ Book of blank checks ☐ A thumb drive of important scanned documents

(or saved via e-mail or in "cloud" storage)

□ Retirement account records

□ Recent tax returns

Safe deposit box location, list of contents and keyRecent pay stubs and employee benefits information

## 4. Download the Red Cross Apps

One of the easiest ways to learn about disaster preparedness and have disaster-ready tools at your fingertips is to download the free American Red Cross mobile apps. These apps are available to both iPhone and Android users and contain a wealth of information about what to do before, during and after a disaster. All apps contain an "I'm safe" feature, locations to the nearest shelter, and a tool kit with items like a built-in flashlight, strobe light and whistle. These fun, easy-to-use, informative apps can be lifesavers in times of emergency.

#### **Emergency App**

The Red Cross Emergency App combines many other Red Cross apps in one, giving users instant access to weather alerts, life-saving information, and ways to contact family and friends in one free, easy-to-use app for mobile devices. It's an all-inclusive app and provides expert advice on what to do in case of disasters such as hurricanes, earthquakes, floods, tornadoes, home fires, wildfires and more. It contains important first-aid information, water safety, shelter locations and detailed disaster prevention and safety tips. "Family Safe" is a feature that allows the app user to notify loved ones who are in an area affected by an emergency or disaster. The recipient can instantly see the alert details as well as specific "what to do now" steps and then respond with either "I'm safe" or "I'm not safe." This feature works even if the recipient has not downloaded the Emergency App.

#### First Aid App

The Red Cross First Aid App puts free and simple lifesaving information in the hands of smart phone users. Download the app to have instant access to expert advice for everyday emergencies and disaster safety and preparedness tips. The app features step-by-step instructions on handling common first aid situations, as well as useful videos and animations.

#### Wildfire App

The Red Cross Wildfire App provides alerts and warnings within 100 miles of a specific location so users can track fires and get ahead of the danger by using "Blaze Tracker" information. "Blaze Warnings" show where conditions are favorable for potential wildfires. "Blaze Alerts" signal when a wildfire has begun within 100 miles of a user's location. "Blaze Path Tracker" shows an existing wildfire's perimeter, how it has spread and its current location. Because wildfires are an ever-present danger in many areas of the country, it's vital that people know what to do to help protect themselves, their loved ones and their property.

#### Flood App

The Red Cross Flood App features include audible NOAA [National Oceanic and Atmospheric Administration] flood and flash flood watches and warnings so people can gather loved ones and head to safety. National Flood Insurance Program says that floods are the most common natural disaster in the U.S. While most people associate floods with hurricanes and tropical storms, common weather conditions such as heavy rain and melting ice or snow can saturate the ground and cause floods or flash floods.

#### **Earthquake App**

The Red Cross Earthquake App users can register to monitor specific geographic areas for quake activity, showing the epicenter, impact magnitude and local geographical impact data provided by the U.S. Geological Survey. A "Shock Zone Impact Map" provides users with personalized local impact information on the status of their community to help them make crucial decisions. The app also includes preparedness information for events that may happen after earthquakes, such as fires and tsunamis.

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#### Pet First Aid App

The Red Cross Red Cross Pet First Aid App puts lifesaving information right in the hands of dog and cat owners so they can provide emergency care until veterinary assistance is available. The Pet First Aid app provides access to step-by-step instructions, videos and images for more than 25 common first aid and emergency situations. Users learn how to treat wounds, control bleeding and care for breathing and cardiac emergencies. Additional topics include burns, car accidents, falls and what to do for cold- and heat-related emergencies.

# 5. Preparing for Specific Disasters



#### **Residential fire**

Did you know that more than 60 percent of home fire deaths occur in homes without working smoke alarms?

The most effective way to protect yourself and your home from fire is to identify and remove fire hazards. During a home fire, working smoke alarms and a regularly-practiced fire escape plan can save lives. Know the most common causes of fires. In many cases, the causes are preventable.

	<b>oking</b> Stay in the kitchen when you are frying, grilling, or broiling food. If you leave the kitchen for even a short period of time, turn off the stove.		Ore fire prevention tips  Never leave burning candles unattended. Always extinguish them when you leave the room.
	Wear short, close-fitting or tightly rolled sleeves when cooking.		Teach fire safety to children.  Keep combustible and flammable liquids away from heat
	Position barbecue grills well away - preferably at least 10 feet - from siding and deck railings, and out from under eaves and overhanging branches.		Portable generators should NEVER be used indoors and should only be refueled outdoors or in well-ventilated areas.
	Extinguish cigarettes in a can filled with sand or soak cigarette butts and ashes in water before throwing them away. Never toss hot cigarette butts or ashes in the	<b>Be</b> □	Make a plan (see p. 5) and build a kit (see p. 6).  Install smoke alarms in every sleeping room, outside each
	trash can.  Never smoke in a home where oxygen is used, even if it is turned off. Oxygen can be explosive and makes fire		separate sleeping area and on every level of the home. Change the batteries every six months. A good reminder is to change them when you change your clocks.
	burn hotter and faster.  Chairs and sofas catch on fire fast and burn fast. Don't smoke in bed or on furniture.		Don't overload electrical outlets.  Keep flammable items like cloth or paper away from hear sources.
	Replace all worn, old or damaged appliance cords. Do not run cords under rugs or furniture, or overload extension cords or wall sockets.		If you have bars on doors or windows, make sure they have internal quick-release devices.
	Buy electrical products evaluated by a nationally recognized laboratory, such as Underwriters		If a fire starts in a pot or pan, don't throw water on it. Cover the pot with a lid to cut off oxygen, and then remove the pot from the heat.
	Laboratories (UL).  If an appliance has a three-prong plug, use it only in a three-slot outlet. Never force it to fit into a two-slot outlet or extension cord.		To evacuate from a fire, stay low to avoid smoke. Feel closed doors for heat. If the door feels hot, there's fire on the other side. Use another escape route. Get out quickly and stay out.
	eplaces and woodstoves Inspect and clean woodstove pipes and chimneys		When smoke alarm sounds, get out and stay out. Go to your family's outside meeting place and call 9-1-1.
	annually and check monthly for damage or obstructions.  Use a fireplace screen heavy enough to stop rolling logs		Never go back inside for possessions, pets or even other people.
_	and big enough to cover the entire opening of the fireplace to catch flying sparks.		If you cannot get out, close the door and cover vents and cracks around the door with cloth or tape to keep
	Store cooled ashes in a tightly sealed metal container outside.		smoke out. Call 9-1-1 or your fire department. Stay where you are and then signal for help at the window with a light-colored cloth or a flashlight.

#### **After** ☐ Check with the fire department to make sure your ☐ Have injuries treated by a medical professional. Wash residence is safe to enter. small wounds with soap and water. To help prevent ☐ Anyone entering your damaged home should wear long infection of small wounds, use bandages and replace pants, a long-sleeved shirt, closed-toed rubber-soled them if they become soiled, damaged or waterlogged. shoes or boots and work gloves, plus dust masks, safety ☐ Remain calm. Pace yourself. You may find yourself in the goggles and/or a hard hat when necessary. position of taking charge of other people. Listen carefully to what people are telling you and deal patiently with urgent situations first. Wildfire Did you know that a wildfire moves at speeds of up to 14 miles an hour? Oregon and Washington are prone to deadly wildfires. Droughts and dry conditions throughout the year increase wildfire risk. Careless use of fire in highly wooded areas can also dramatically increase the chance of a wildfire, which can then quickly spread across trees and dry brush and threaten homes and businesses that are in the vicinity. **Before** ☐ Confine pets to one room so you can find them if you ☐ Learn about the wildfire risks in your area. need to evacuate quickly. ☐ Listen and watch for air quality reports and health ☐ Make a plan (see p. 5) and build a kit (see p. 6). warnings about smoke. ☐ Make sure driveway entrances and your house number Keep indoor air clean by closing windows and doors to or address are clearly marked so fire vehicles can get to prevent outside smoke from getting in. your home. ☐ Use the recycle or recirculate mode on the air ☐ Identify and maintain an adequate water source conditioner in your home or car. outside your home, such as small pond, cistern, well or swimming pool. When smoke levels are high, do not use anything that burns or adds to indoor air pollution, such as candles, ☐ Set aside household items that can be used as fire tools: fireplaces and gas stoves. Avoid vacuuming. a rake, ax, handsaw or chainsaw, bucket and shovel. ☐ If you have asthma or another lung disease, follow your ☐ Select building materials and plants that resist fire. health care provider's advice. ☐ Regularly clean roofs and gutters. Dress to protect yourself; wear cotton/woolen clothing including long-sleeve shirts, long pants and gloves. $\square$ Keep a garden hose that is long enough to reach any area of the home and other structures on the property. ☐ If you are trapped, crouch in a pond, river or pool. ☐ Install freeze-proof exterior water outlets on at least two sides of the home and near other structures or property. Don't put wet clothing or bandanas over your nose or mouth. **During** Δfter ☐ Be ready to leave at a moment's notice. □ Let friends and family know you're safe. ☐ Listen to local radio and television stations for updated ☐ Do not enter your home until fire officials say it's safe. emergency information. ☐ Use caution when entering burned areas as hazards ☐ Check emergency kit and replenish any items missing or may still exist, including hot spots, that can flare up in short supply. Keep nearby. without warning. ☐ Arrange for temporary housing at a friend or relative's □ Avoid damaged or fallen power lines, poles and home outside the threatened area.

☐ Back your car into your garage for easier evacuation.

downed wires.

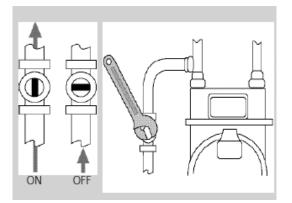
□ Watch for ash pits and mark them for safety.



#### **Earthquake**

Did you know that doorways are no stronger than any other part of the house structure during an earthquake? During an earthquake remember to drop, cover and hold on!

#### **Before During** ☐ Make a plan (see p. 5) and build a kit (see p. 6). If you are inside when the shaking starts ☐ Drop, cover and hold on. Move as little as possible. ☐ Pick safe places in each room of your home, workplace and/or school. A safe place could be under a piece of ☐ If you are in bed, stay there, curl up and hold on. Protect furniture or against an interior wall away from windows, your head with a pillow. bookcases or tall furniture that could fall on you. ☐ Stay away from windows to avoid being injured by ☐ Practice "drop, cover and hold on" in each safe place. If shattered glass. you do not have sturdy furniture to hold on to, sit on the floor next to an interior wall and cover your head and ☐ Stay indoors until the shaking stops and you are sure it neck with your arms. is safe to exit. When it is, use stairs rather than the elevator in case there are aftershocks, power outages or ☐ Keep a flashlight and sturdy shoes by your bed in case other damage. the earthquake strikes in the middle of the night. ☐ Be aware that fire alarms and sprinkler systems ☐ Make sure your home is securely anchored to its frequently go off in buildings during an earthquake, even foundation. if there is no fire. ☐ Bolt and brace water heaters and gas appliances to wall If you are outside when the shaking starts ☐ Find a clear spot (away from buildings, power lines, ☐ Bolt bookcases, china cabinets and other tall furniture trees, streetlights) and drop to the ground. Stay there to wall studs. until the shaking stops. ☐ Hang heavy items, such as pictures and mirrors, away ☐ If you are in a vehicle, pull over to a clear location and from beds, couches and anywhere people sleep or sit. stop. Avoid bridges, overpasses and power lines if ☐ Brace overhead light fixtures. possible. Stay inside with your seatbelt fastened until the shaking stops. Then, drive carefully, avoiding bridges ☐ Install strong latches or bolts on cabinets. Large or and ramps that may have been damaged. heavy items should be close to the floor. ☐ If a power line falls on your vehicle, do not get out. Wait $\hfill \square$ Learn how to shut off the gas valves in your home and for assistance. keep a wrench handy for that purpose. ☐ If you are in a mountainous area or near unstable slopes ☐ Learn about your area's seismic building standards and



land-use codes before you begin new construction.

#### Shutting off your gas in your home in a natural disaster

 Locate the shut-off valve on the riser pipe from the ground to your meter or, on newer meters, the service line going from your meter into the house.

or cliffs, be alert for falling rocks and other debris.

Landslides are often triggered by earthquakes.

- Use an adjustable pipe or crescent-type wrench to turn the valve a quarter turn in either direction. When the valve head is parallel to the pipe, it is in the OPEN position.
- Turn the vale head crosswise (perpendicular) to the pipe and to set in OFF position. There are also shut-off valves on the lines fueling individual pieces of equipment.
- Once the gas is off, leave it off. Call your nearest gas utility company when
  you are ready for the gas to be restarted. A qualified service technician will
  check your system, turn on your service and re-light your appliances. Do not
  attempt to do this yourself.



Download the earthquake app and receive earthquake alerts, including information on what to do before, during and after an earthquake.

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- ☐ After an earthquake, the disaster may continue. Expect and prepare for potential aftershocks, landslides or even a tsunami. Tsunamis are often generated by earthquakes. (see p. 14 to learn more about tsunamis)
- ☐ Each time you feel an aftershock, drop, cover and hold on. Aftershocks frequently occur minutes, days, weeks and even months following an earthquake.
- ☐ Check yourself for injuries and get first aid, if necessary, before helping injured or trapped persons.
- ☐ Put on long pants, a long-sleeved shirt, sturdy shoes and work gloves to protect against injury from broken objects.
- ☐ Look quickly for damage in and around your home and get everyone out if your home is unsafe.
- ☐ Listen to a portable, battery-operated or hand-crank radio for updated emergency information and instructions.
- ☐ Check the telephones in your home or workplace to see if you can get a dial tone. Make brief calls to report life-threatening emergencies.

- ☐ Look for and extinguish small fires. Fire is the most common hazard after an earthquake.
  - ☐ Clean up spilled medications, bleach, gasoline or other flammable liquids immediately.
  - ☐ Open closet and cabinet doors carefully as contents may have shifted.
  - ☐ Help people who require special assistance, such as infants, children and the elderly or disabled.
  - ☐ Watch out for fallen power lines or broken gas lines and stay out of damaged areas.
  - ☐ Keep animals under your direct control.
  - ☐ Stay out of damaged buildings.
  - ☐ If you were away from home, return only when authorities say it is safe to do so. Use extreme caution and examine walls, floors, doors, staircases and windows to check for damage.
  - ☐ Be careful when driving after an earthquake and anticipate traffic light outages.

#### The Cascadia Subduction Zone

The world's largest faults are associated with subduction zones and have produced earthquakes in the 9+ magnitude range. The last great earthquake on the Cascadia Subduction Zone occurred on January 26, 1700, more than 300 years ago. Geologists have found evidence for at least 40 great Cascadia earthquakes during the past 10,000 years and estimate they occur irregularly at intervals anywhere between 200 and 800 years. The next Cascadia earthquake may be similar to the earthquake that set off the 2011 Japan earthquake or the 2004 Indian Ocean tsunami. It could cause strong ground shaking from northern California to Southern Canada lasting for up to five minutes.

\*From Living On Shaky Ground: How to Survive Earthquakes and Tsunamis in Oregon, ©2009, Humboldt State University/Oregon Emergency Management



#### **Tsunami**

Did you know that a tsunami can occur during any season of the year and at any time, day or night?

Tsunamis are series of large ocean waves caused by major earthquakes or landslides beneath the ocean. When the waves enter shallow water, they may rise several feet or, in rare cases, near 100 feet, striking the coast with devastating force. Tsunamis can be local or distant. A local tsunami can arrive within minutes of the earthquake. A distant tsunami can take 4 to 12 hours to arrive on shore. If you feel the ground shake while at the beach or low coastal area, walk inland and uphill as soon as possible.

Be	fore Find out if your home, school, workplace or other frequently visited locations are in tsunami hazard areas.		If a tsunami watch is issued, listen to a NOAA weather radio, Coast Guard emergency frequency station or other reliable sources for updated emergency
	Make a plan (see p. 5) and build a kit (see p. 6).		information and be ready to evacuate.
	Know the height of your street above sea level and the distance of your street from the coast. Evacuation orders		Remain inland and on higher ground until an "all clear" announcement is made by local officials.
	may be based on these numbers.	Aft	ter
	Plan evacuation routes from your home, school, workplace and other places you could be where tsunamis present a risk. If possible, pick areas 100 feet (30 meters) above		Continue using a NOAA weather radio or tuning to a Coast Guard station, or a local radio or television station for the latest updates.
	sea level or go as far as 2 miles (3 kilometers) inland, away from the coastline. If you cannot get this high or far, go as high or far as you can. Every foot inland or upward may make a difference. You should be able to reach your safe location on foot within 15 minutes.		Return home only after local officials tell you it is safe. A tsunami is a series of waves that may continue for hours. Do not assume that after one wave the danger is over. The next wave may be larger than the first one.
	Learn the evacuation plan where your child attends school. Find out if the plan requires you to pick your children up		Check yourself for injuries and get first aid as needed before helping injured or trapped persons.
	from school or from another location. During a tsunami watch or warning, telephone lines may be overloaded and routes to and from schools may be jammed.		If someone needs to be rescued, call professionals who have the right equipment to help. Many people have been killed or injured trying to rescue others.
	Practice your evacuation routes. Familiarity may save your life. Be able to follow your escape route at night and during inclement weather. Practicing your tsunami survival plan makes the appropriate response more of a reaction,		Help people who require special assistance—infants, elderly people, those without transportation, people with disabilities and large families who may need additional help in an emergency situation.
	requiring less thinking during an actual emergency.  If you are a tourist, familiarize yourself with local tsunami evacuation information. You may be able to safely		Avoid disaster areas. Your presence might interfere with emergency response operations and put you at further risk from the residual effects of floods.
	evacuate to the third floor or higher in reinforced concrete hotel structures.		Use the telephone only for emergency calls.
Du	ring		Stay out of any building that has water around it. Tsunam water can cause floors to crack or walls to collapse.
	If you feel an earthquake while you are on the coast, drop, cover and hold on if inside and avoid falling objects if outside (see Earthquakes, page 12).		Use caution when re-entering buildings or homes. Tsunami-driven floodwater may have damaged buildings where you least expect it. Carefully watch every step
	When the shaking has stopped, move quickly inland and		you take.
	to higher ground. Go on foot if possible.  Take your disaster supplies kit, but don't delay leaving.		To avoid injury, wear protective clothing and be cautious when cleaning up.
			Watch animals closely and keep them under your direct control.



#### **Winter Storms**

Did you know that if you plan to be away during cold weather, you should leave the heat on in your home set to a temperature no lower than 55° F?

Winter storms can range from a moderate snow over a few hours to a blizzard with blinding, wind-driven snow that lasts for several days. Many winter storms are accompanied by dangerously low temperatures and sometimes by strong winds, icing, sleet and freezing rain. Regardless of the severity of a winter storm, you should be prepared in order to remain safe during these events. Know the difference between an advisory, watch and warning on p. 4.

Be □	fore Make a plan (see p. 5) and build a kit (see p. 6).		Keep garage doors closed if there are water supply lines in the garage.
	Winterize your vehicle and keep the gas tank full. A full tank will keep the fuel line from freezing.		Open kitchen and bathroom cabinet doors to allow warmer air to circulate around the plumbing. Be sure to
	Insulate your home by installing storm windows or covering windows with plastic from the inside to keep cold air out.		move any harmful cleaners and household chemicals out of the reach of children.
	Maintain heating equipment and chimneys by having them cleaned and inspected every year.		Keep the thermostat set to the same temperature both during the day and at night. By temporarily suspending the use of lower nighttime temperatures, you may incur
	If you will be going away during cold weather, leave the heat on in your home, set to a temperature no lower than 55° F.		a higher heating bill, but you can prevent a much more costly repair job if pipes freeze and burst.
	Add sand, rock salt or non-clumping kitty litter to your disaster kit to make walkways and steps less slippery.		Go to a designated public shelter if your home loses power or heat during periods of extreme cold.
	Have warm coats, gloves or mittens, hats, boots and extra blankets and warm clothing accessible for all household members.		Avoid driving when conditions include sleet, freezing rain or drizzle, snow or dense fog. If travel is necessary, keep a disaster supplies kit in your vehicle.
<b>D</b> u	ring Listen to a NOAA weather radio or other local news channels for critical information from the National		Before tackling strenuous tasks in cold temperatures, consider your physical condition, the weather factors and the nature of the task.
	Weather Service (NWS) on snow storms and blizzards.		Protect yourself from frostbite and hypothermia by
	Bring pets/companion animals inside during winter weather. Move other animals or livestock to sheltered		wearing warm, loose-fitting, lightweight clothing in several layers. Stay indoors, if possible.
	areas and make sure that their access to food and water is not blocked by snow drifts, ice or other obstacles.		Help people who require special assistance such as elderly people living alone, people with disabilities and
	Running water, even at a trickle, helps prevent pipes from freezing.	A £1	children.
	All fuel-burning equipment should be vented to the	Aft □	Let friends and family know you're safe.
	outside and kept clear.		Make sure to replenish disaster supplies if used during the storm.



#### **Flood**

Did you know that flood waters only a half-foot deep can be strong enough to sweep a person off their feet?

Floods are among the most frequent and costly natural disasters. When heavy or steady rain saturates the ground over several hours or days, flood conditions may occur. Flash floods occur suddenly due to rapidly rising water along a stream or low-lying area.

Be	fore  Make a plan (see p. 5) and build a kit (see p. 6).  Listen to area radio and television stations and a NOAA		when a flood or flash-flood warning is issued for your area, head for higher ground and stay there.
	weather radio for possible flood warnings and reports of flooding in progress or other critical information from the National Weather Service (NWS).		Stay away from floodwaters. If you come upon a flowing stream where water is above your ankles, stop, turn around and go another way. Six inches of swiftly moving
	Be prepared to evacuate at a moment's notice.		water can sweep you off of your feet.
	Because standard homeowner's insurance doesn't cover flooding, it's important to have protection from the floods associated with hurricanes, tropical storms, heavy rains and other conditions that impact the U.S. For more flood safety tips and information on flood insurance, please visit the National Flood Insurance Program Web		If you come upon a flooded road while driving, turn around and go another way. If you are caught on a flooded road and waters are rising rapidly around you, get out of the car quickly and move to higher ground. Most cars can be swept away by less than two feet of moving water.
	site atwww.FloodSmart.gov.		Keep children out of the water. They are curious and often lack judgment about running water or contaminated water.
			Be especially cautious at night when it is harder to recognize flood danger.
		<b>Aft</b>	ter Let friends and family know you're safe.
			Do not enter your home until officials say it's safe.
	Landslide		
4	Did you know that landslides take place past? They're also more common in ar		nost often where they've happened in the recently burned by a wildfire.
	fore  Make a plan (see p. 5) and build a kit (see p. 6).  ring		If you are near a stream or channel, be alert for any sudden increase or decrease in water flow and notice whether the water changes from clear to muddy. Such changes may mean there is debris flow activity upstream
	If you suspect imminent danger, evacuate immediately.		so be prepared to move quickly.
	Inform affected neighbors if you can, and contact your public works, fire or police department.		Be especially alert when driving—watch for collapsed pavement, mud, fallen rocks and other indications of possible debris flow.
Ш	Listen for unusual sounds that might indicate moving debris, such as trees cracking or boulders knocking		
	together.	Ш	If you are ordered or decide to evacuate, take your animals with you.
			Consider a precautionary evacuation of large or numerous animals as soon as you are aware of impending danger

#### After

- Stay away from the slide area. There may be danger of additional slides.
- ☐ Check for injured and trapped persons near the slide, without entering the direct slide area. Direct rescuers to the person's locations.
- ☐ Listen to local radio or television stations for the latest emergency information.
- ☐ Watch for flooding, which may occur after a landslide or debris flow. Floods sometimes follow landslides and debris flows because they may both be started by the same event.
- □ Look for and report broken utility lines to appropriate authorities. Reporting potential hazards will get the utilities turned off as quickly as possible, preventing further hazard and injury.
- ☐ Check the building foundation, chimney, and surrounding land for damage. Damage to foundations, chimneys, or surrounding land may help you assess the safety of the area.
- ☐ Replant damaged ground as soon as possible since erosion caused by loss of ground cover can lead to flash flooding.



#### **Medical Emergencies**

In the event of a disaster, emergency medical response may be delayed.

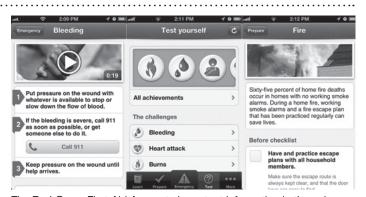
Your emergency training could mean the difference between life and death.

The guidelines here **do not** constitute comprehensive Red Cross training or certification for emergency medical care. To receive training and certification for first aid, CPR, and other emergency preparedness topics, contact your local Red Cross chapter or visit *www.redcross.org*.

If you encounter someone who is injured or ill:

#### Check—Call—Care

- ☐ **Check** the scene to make sure it is safe for you to approach. *Then* check the victim. Someone who has a life-threatening condition, such as severe bleeding or difficulty breathing, requires immediate care and may need treatment by advanced medical professionals. Call out for bystanders to help.
- □ Call 9-1-1, the workplace emergency number or your local emergency number. If you are unable to get through to 9-1-1, call local fire, police or a local hospital. In a large-scale disaster, you may not be able to get through to the emergency medical services system at all. Also, you may not have access to telephones. In these situations, you should shout for help to alert nearby neighbors or others who may have access to a phone.
- ☐ **Care** for the person based on the conditions you find. If there are multiple victims at a scene, you may need to establish treatment priorities based on the most effective use of resources and responders.



The Red Cross First Aid App puts important information in the palm of your hand.

#### First Aid and CPR Training

Would you know what to do in a cardiac, breathing or first aid emergency?

Red Cross *First Aid/CPR/AED* courses give you the skills to save a life. Contact your local Red Cross chapter to register for a class (See p. 4 to find your chapter office).

- ☐ Severe external bleeding: Use direct pressure on the wound and apply a clean dressing and pressure bandages. If dressing soaks through, continue direct pressure and apply more dressings and bandages.
- ☐ **Breathing emergencies:** Find cause of difficulty. If patient is conscious, ask!

	<b>oking</b> Encourage patient to cough forcefully.	Ca □	re for shock Have patient lie down. This is often the most
	If the patient is unable to cough, use a combination of back blows and abdominal thrusts to attempt to dislodge object.		comfortable position.  Do not move patient unless the scene is becoming dangerous.
	Back blows: Bend patient forward, supporting chest.		Control any external bleeding.
	Deliver five sharp firm back blows between shoulder blades.		Protect from chill or excess heat.
	Abdominal thrust: Stand behind patient, wrap your arms		Loosen restrictive clothing and reassure the person.
	around their waist, finding patient's navel. Place the		Do not give patient anything to eat or drink.
	thumb side of one of your hands two inches above the navel, cover with your other hand and deliver five upward thrusts to patient's abdomen.		Continually monitor patient's level of consciousness, airway, breathing and circulation and treat for other conditions you find.
	Continue alternating back blows and abdominal thrusts until object is dislodged.	Ca □	re for injuries to muscles, bones and joints Apply a cold/ice pack to reduce pain and swelling.
	sease prevention e risk of getting a disease while giving first aid is		Avoid any movement or activity that causes pain.
	remely rare.		If you must move the victim because the scene is
	further reduce the risk: Avoid direct contact with blood and other body fluids.		becoming unsafe, immobilize the injured area to minimize further damage.
	Use protective equipment, such as disposable gloves and breathing barriers.	Ca □	re for burns Stop the burning by cooling the burn with large
	Whenever possible, thoroughly clean your hands with		amounts of water.
	soap and water or waterless hand-cleaner immediately after giving care.	Ш	Remove any chemicals from skin by flushing with water. Brush dry chemicals from skin before flushing.
Sh	ock		Cover the burn with dry, clean dressings or cloth.
оху	ock is a life threatening condition in which not enough genated blood is being delivered to vital organs and		Do not attempt to remove any clothing stuck to burned skin.
	sues. It can arise from traumatic, medical, or psychological ents. Symptoms of shock may include:		ow how to save a life
	Restlessness or irritability	Ш	CPR and First Aid—At least one person in your household should learn these life-saving skills. Call
	Altered level of consciousness		1-800-RED CROSS to sign up for a class or visit
	Nausea or vomiting	_	www.redcross.org/take-a-class.
	Pale, ashen or grayish cool, moist skin	Ш	Donate blood—Call 1-800-RED CROSS to make an appointment or visit <i>www.redcrossblood.org</i> .
	Rapid breathing and pulse		Volunteer—To volunteer with the American Red Cross,
	Excessive thirst		visit www.redcross.org/volunteer.
			CERT and NET—Learn basic disaster response skills by joining your local Community Emergency Response Team (CERT) or Neighborhood Emergency Team (NET). To learn more, go to www.citizencorps.gov/cert.







#### **Biological or Chemical Threat, Terrorism and Pandemic Flu**

In cases of a biological or chemical threat, terrorism or pandemic flu, authorities may advise you to shelter in place. "Shelter in place" means to take immediate shelter where you are—at home, work, school, or in between. It may also mean

"seal the room;" in other words, take steps to prevent outside air from coming in if chemical or radiological contaminants are released into the environment. It is important to listen to TV or radio to understand whether the authorities wish you to merely remain indoors or to take additional steps to protect yourself and your family. (The following information is provided by the Centers for Disease Control and Prevention.)

Ве	fore		Get your disaster supplies kit, and make sure the radio is
At I	home		working.
	Choose an internal room for your shelter, preferably one without windows and one on the highest level. A large		Take everyone, including pets, into an interior room with no or few windows and shut the door.
	room, preferably with a water supply, is desirable—something like a master bedroom that is connected to a bathroom.		The room should have 10 square feet of floor space per person in order to provide sufficient air to prevent carbon dioxide buildup for 5 hours. In this room, you should store
	Contact your workplaces, your children's schools, nursing homes where you may have family and your local town or city officials to find out what their plans are for "shelter-in-place."		scissors, plastic sheeting pre-cut to fit over any windows or vents and rolls of duct tape to secure the plastic.  Access to a water supply is desirable, as is a working land line telephone. Don't rely on cell phones because cellular
	Find out when warning systems will be tested. When tested in your area, determine whether you can hear or see sirens and/or warning lights from your home.		telephone circuits may be overwhelmed or damaged during an emergency. Also, a power failure will render most cordless phones inoperable.
	Develop your own family emergency plan so that every family member knows what to do. Practice it regularly.		If you have pets, prepare a place for them to relieve themselves where you are taking shelter. Pets should not go outside during a chemical or radiation emergency
	Assemble a disaster supplies kit that includes emergency water and food supplies.		because it is harmful to them and they may track contaminants into your shelter. The Humane Society suggests that you have plenty of plastic bags and
At	work		newspapers, as well as containers and cleaning supplies,
	Help ensure that the emergency plan and checklist		to help deal with pet waste.
	involves all employees. Safety volunteers or recruits should be assigned specific duties during an emergency. Alternates should be assigned to each duty.		If you are instructed to seal the room, use duct tape and plastic sheeting, such as heavy-duty plastic garbage bags, to seal all cracks around the door into the room. Tape
	The shelter kit should be checked on a regular basis and batteries for the radio and flashlight should be replaced regularly.		plastic over any windows. Tape over any vents and seal electrical outlets and other openings. As much as possible, reduce the flow of air into the room.
Du	ring		Call your emergency contact and keep the phone handy in
If yo	ou are told to "shelter-in-place," act quickly. Follow the tructions of local authorities. In general:		case you need to report a life-threatening condition.  Otherwise stay off the phone, so that the lines will be available for use by emergency responders.
	Bring children and pets indoors immediately. If your children are at school, do not try to bring them home unless told to. The school will shelter them.		Keep listening to your radio or television until you are told all is safe or you are told to evacuate. Do not evacuate unless instructed to do so.
	Close and lock all outside doors and windows. Locking may provide a tighter seal.	Aft	
	If you are told there is danger of explosion, close the window shades, blinds or curtains.		When you are told that the emergency is over, open windows and doors, turn on ventilation systems, and go
	Turn off the heating, ventilation or air conditioning system.  Turn off all fans, including bathroom fans operated by the light switch.		outside until the building's air has been exchanged with the now clean outdoor air. Follow any special instructions given by emergency authorities to avoid chemical or radiological contaminants outdoors.
	Close the fireplace or woodstove damper. Become familiar with proper operation of flues and dampers ahead of time.		radiological contaminante outdoors.



#### **Volcanoes**

Did you know that the Cascade Mountain Range is a chain of large and small volcanoes that have erupted several times in the past 200 years?

The eruption of Mount St. Helens on May 18, 1980, devastated a wide area of our region. Explosive volcanoes blast hot solid and molten rock and gases in the air, resulting in ash flows, mudflows, rock falls, earthquakes and floods for miles around the blast site.

	fore		If caught near a stream, be aware of mudflows; move up slope.
Ш	Learn about your community warning systems and emergency plans.		Protect yourself from ash fall: Wear long-sleeved shirts
	Make a plan (see p. 5) and build a kit (see p. 6).		and long pants, use goggles to protect your eyes, use a
	Plan an evacuation route out and have a back-up route in mind.		dust mask or hold a damp cloth to your face to help breathing.
ъ.			Keep car or truck engines off.
	ring ,	Aft	ter
	loors  Be prepared to follow evacuation orders issued by authorities.		Stay indoors until local health officials advise it is safe to go outside.
	Close windows, doors and dampers.		Stay away from volcanic ash fall areas.
	Bring animals and livestock into closed shelters.		Avoid ash fall: Keep skin covered to avoid irritation from contact with ash, use goggles to protect your eyes, use
Ou	tdoors Seek indoor shelter.		a dust mask or hold a damp cloth you're your face to help breathing.
	If caught in a rock fall, roll into a ball to protect your head.		Avoid driving that might stir up ash and stall vehicles.
	lividuals who are vision impaired, hearing impaired or mobility	/ imp	aired should take additional steps to prepare
tor	disasters.		
	Complete an honest assessment of your abilities and needs. Would you be able to climb out a window if necessary? Can you hear emergency announcements?		If you use a wheelchair, keep a wheelchair patch kit to repair a flat. If you use a motorized chair, keep a non-powered backup chair.
	If you anticipate the need for special assistance from first responders after a disaster, have you spoken with family, care givers, friends or neighbors who can assist and be part of your emergency plan?		Form a support team of at least three different people to check on you after a disaster. Exchange house keys. Tell each other when you're out of town. Teach your support team how to use any home medical equipment.
	Write out an emergency information card, including any medications you take, allergies, sensory or mobility		Write an information card which includes the best way to communicate with you or move you if necessary.
	impairments, equipment you need and emergency contact numbers.		If you're hearing-impaired, install smoke detectors with strobe light alarms. Also, keep a pen and paper in your
	If you live in an assisted living facility, find out what its emergency plans are.		emergency kit to communicate with first responders.
			If you had believed as a discount of a constant of the constant
	If you're mobility impaired, identify two accessible	Ш	If you're blind, mark your emergency supplies with Braille. Keep an extra cane by your bed.

# 7. Seniors

Dis	nether you live alone or depend on a caregiver, it is vital to hat scuss emergency plans with family, friends and neighbors. It in nerabilities. When creating your emergency plan, know the a	s als	o important to let them know about your risks and
	Do you live alone?		Label any equipment—such as wheelchairs, canes or
	Do you drive or own a car?		walkers—that you would need with your name, address and phone numbers.
	How good is your sense of smell?		Keep hearing aids, glasses or assistive devices near the
	Do you have any physical, medical, thinking or learning limitations?		bedside. You may want to attach the equipment with Velcro as some disasters, particularly earthquakes, may cause items to shift.
	Has your sense of hearing or vision decreased?	Co	nduct a "hazard hunt" in your residence and remove any
	Are you reliant upon any medical equipment?		ns that could be an impediment when evacuating.
	Are you reliant upon a caregiver?		To prevent falling, secure or remove throw rugs and
pla	ns. Ask local officials about your area's response and		carpet, keep floors dry, wipe up spills immediately, and be sure to use non-wax cleaning products on floors.
tak	acuation plans in the event of an emergency. If available, e advantage of advance registration systems in your area those who need help during community emergencies. If		If you use a wheelchair, make sure your escape routes are wheelchair accessible.
you	at their plan is in times of emergency and how they can		Keep support items like wheelchairs and walkers in a designated place so they can be found quickly.
	sist you.  addition to the standard items that should be in your		Know the safe places within your home in case you need to shelter during extreme weather events.
	ergency kit, you should consider storing your supplies in		
	ontainer or bag with wheels.		
ас			
8. You you	ontainer or bag with wheels.	lem	ergency contact information is up-to-date. You can't take
8. You you awa	Your Mental Health  I can reduce the emotional impact of a disaster by being preur evacuation plans. Make sure your supplies are in order and	l emo	ergency contact information is up-to-date. You can't take
8. You you awa	Your Mental Health  I can reduce the emotional impact of a disaster by being preur evacuation plans. Make sure your supplies are in order and ay the feeling of shock after a disaster, but you can reduce the	l emo	ergency contact information is up-to-date. You can't take eling that everything is out of control.
8. You you awa	Your Mental Health  I can reduce the emotional impact of a disaster by being preur evacuation plans. Make sure your supplies are in order and ay the feeling of shock after a disaster, but you can reduce the sasters may cause highly emotional responses along family members. Normal responses include:	l eme ne fe	ergency contact information is up-to-date. You can't take eling that everything is out of control.  Notice positives; don't blame
8. You you awa	Your Mental Health  I can reduce the emotional impact of a disaster by being preur evacuation plans. Make sure your supplies are in order and ay the feeling of shock after a disaster, but you can reduce the sasters may cause highly emotional responses along family members. Normal responses include:  Numbness, apathy or depression	l eme ne fe	ergency contact information is up-to-date. You can't take eling that everything is out of control.  Notice positives; don't blame  Talk about your feelings
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8. You you awa	Your Mental Health  I can reduce the emotional impact of a disaster by being preur evacuation plans. Make sure your supplies are in order and ay the feeling of shock after a disaster, but you can reduce the sasters may cause highly emotional responses along family members. Normal responses include:  Numbness, apathy or depression  Difficulty concentrating or making decisions  Anxiety, restlessness, irritability or fear  Disorientation  Sleep disturbance  Fatigue	Fo	ergency contact information is up-to-date. You can't take eling that everything is out of control.  Notice positives; don't blame Talk about your feelings  r your long-term adjustment  Allow yourself to cry Get some exercise Avoid excessive alcohol/drugs Seek counseling if you continue to feel depressed, anxious or debilitated er you and your family are out of danger, sit down tether and collect yourselves. Limit family decisions to
8. You you awa	Your Mental Health  I can reduce the emotional impact of a disaster by being preur evacuation plans. Make sure your supplies are in order and ay the feeling of shock after a disaster, but you can reduce the sasters may cause highly emotional responses tong family members. Normal responses include:  Numbness, apathy or depression  Difficulty concentrating or making decisions  Anxiety, restlessness, irritability or fear  Disorientation  Sleep disturbance  Fatigue  Ental health survival tips	Fo	ergency contact information is up-to-date. You can't take eling that everything is out of control.  Notice positives; don't blame Talk about your feelings  r your long-term adjustment  Allow yourself to cry Get some exercise Avoid excessive alcohol/drugs  Seek counseling if you continue to feel depressed, anxious or debilitated er you and your family are out of danger, sit down

## 9. Preparing Your Pet for Disaster

In the event of a disaster, if you must evacuate, the most important thing you can do to protect your pets is to evacuate them, too. If it's not safe for you to stay behind then it's not safe to leave pets behind either. Take action now so you know how to best care for your animal friends when the unexpected occurs.

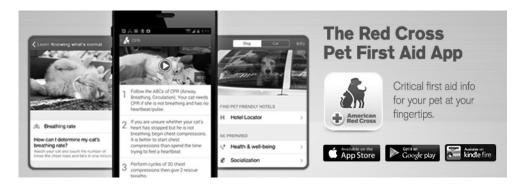
#### Know a safe place to take your pets

- □ Local and state health and safety regulations do not permit facilities to allow pets in disaster shelters.
   (Service animals are allowed in Red Cross shelters.)
- ☐ Contact hotels and motels outside your local area to check their policies on accepting pets and restrictions on number, size and species. Ask if "no pet" policies can be waived in an emergency. Keep a list of "petfriendly" places, including phone numbers, with your disaster supplies.
- ☐ Ask friends, relatives or others outside the affected area if they could shelter your animals.
- ☐ Make a list of boarding facilities and veterinarians who could shelter animals in an emergency; include 24-hour phone numbers.
- ☐ Ask local animal shelters if they provide emergency shelter or foster care for pets during a disaster.

#### Assemble a pet emergency preparedness kit

Keep your pet's essential supplies in sturdy containers that can be easily accessed and carried (a duffle bag or covered trash containers, for example). Your pet emergency preparedness kit should include:

- ☐ Medications and medical records (stored in a waterproof container) and a first aid kit.
- ☐ Sturdy leashes, harnesses and/or carriers to transport pets safely and ensure that your animals can't escape.
- ☐ Current photos of your pets in case they get lost.
- ☐ Food, drinkable water, bowls, cat litter/pan, bags and manual can opener.
- ☐ Information on feeding schedules, medical conditions, behavior problems, and the name and number of your veterinarian in case you have to foster or board your pets.
- ☐ Pet bed or toys if easily transportable.



The American Red Cross Pet First Aid app allows pet owners to be prepared to act when called upon for everyday emergencies. It includes videos, interactive quizzes and simple steps to track warning signs and preventive care for cats and dogs. Learn more atredcross.org/mobile-apps/pet-first-aid-app.

#### 10. What You Need to Know About Your Utilities

#### **Natural gas**

Your gas company adds an odorant into your gas before it is distributed, which smells like sulfur or rotten eggs. The odorant is highly concentrated so even the smallest amount of natural gas can be detected. Any odor of natural gas inside your home may indicate a leak. If you smell natural gas or hear a blowing or hissing sound, remember: Smell. Go. Let us know. (See p. 12 for information on how to turn off natural gas in your home.)

	natural gas in your home.)		
	Leave the area immediately.		
	Don't try to find the leak.		
	Don't use phones, light switches, or electronic devices that have a battery: they can create a spark.		
	Don't use candles, matches or lighters.		
	Don't start a car near a natural gas odor and don't use vour garage door opener.		
	Once you're away, call NW Natural at 800-882-3377 or your local gas company.		
Εle	ectricity		
If th	ne power goes off:		
	Check your fuse or breaker box for blown fuses or tripped circuits. If they're okay, check to see if your neighbors are without power.		
	Call your power company immediately to report the outage. Please call only once so other customers can get through. Some utilities, like PGE, offer ways to report outages online or by text.		
	Turn off all electrical equipment including your water heater, electric furnace or heaters, stove, washer and dryer, stereo and TV, to help prevent overloading the system when power is restored (major appliances can be turned off at the breaker box).		
	Turn on a porch light and one inside light so you and repair crews will know when service is restored.		
	Keep refrigerators and freezers closed to minimize food loss.		
	Listen to the radio or check social media, or your power company's website for updates on major outages. If your neighbor's power comes back on but yours does not, call your power company again.		
	If your lights are very dim or very bright once power is restored, turn off the power at the breaker or fuse box and call your power company.		



#### **Downed power line safety**

You cannot see electricity—a downed line doesn't have to spark to be live. And a wire can be dangerous even if you're not touching it: The electricity from a wire can be conducted through other things touching the wire, such as water, metal, tree branches, concrete and other materials. Stay far back from any downed lines and keep other people and pets away, too. When you see a downed line, take the following precautions:

- ☐ Don't touch it! Call your electric utility, immediately to report any downed utility line.
- ☐ If a line is touching a person, call 9-1-1 and stay away; you could become a victim if you touch the person. If a line falls across your vehicle, stay in the vehicle until help arrives. If you have to get out of the vehicle due to a fire, or other life-threatening situation, jump clear of the car with both feet together, making sure not to touch the car and the ground at the same time. Then, keeping your feet together at all times, shuffle or hop far away from the car and power line.
- ☐ Keep on the lookout for crews repairing downed lines. Slow down near work areas and always obey flaggers.

#### **Generator safety**

Owners of portable or auxiliary generators should note these precautions:

- Never plug your generator into a wall outlet. It can result in injury to you or others and damage to your electrical system.
- ☐ Portable generators are gasoline-powered and should always be operated outside away from doors, windows and your garage. Use an outdoor-rated, grounded (three-prong) extension cord to connect your generator to an appliance.
- ☐ Gas-powered generators can become very hot during operation. Use extreme caution to avoid burns and let the engine cool before you refuel.
- ☐ Notify your power company if you have a permanent generator. Permanently-installed auxiliary generators must meet electrical codes and have a transfer switch to prevent dangerous back-feed of electricity into power lines.
- ☐ If a family member depends on medical life-support equipment, a back-up generator is important to consider in case of an extended power outage.

## 11. What you Need to Know About Water

After a major disaster you may not have access to clean water. It is important to store plenty of extra water, and know how to access alternative sources of water.

#### Alternative sources of water

- Melted ice cubes
- · Liquid in canned vegetables
- Water stored in your water heater—To drain, first shut off
  the gas or electricity supply, and turn off the water intake
  valve. Next open the drain at the bottom of the tank and
  turn on a hot water faucet in your house, to let air into
  the system.
- Water stored in your pipes—To drain, first shut off the main water valve for your home. Next, open a faucet at the highest level in your home to let the air into the plumbing and then take water from the lowest faucet in the house.

UNSAFE WATER SOURCES: Radiators, waterbeds and swimming pools, toilet tank or bowl.

#### **Water storage**

You will need more water than you might think in an emergency. Store a minimum of three days' worth of water per person: one gallon per person per day (and the same amount for each pet). If you are running low on water in an emergency, do not ration. Drink what you need today, try to find more for tomorrow. Fill up the tub if you have time, but do not use for drinking.

Follow these steps to access the water in your hot water tank:

- Find your incoming water valve. Shut it off to avoid possibly contaminated water coming into the tank.
- 2. Turn off the gas or electricity to the tank.
- 3. Turn on a hot water faucet in the house.
- 4. Collect water as needed from the tap at the bottom of the hot water heater.

#### Proper water storage

- Store bottled drinking water out of direct sunlight, away from chemicals that might permeate the container and in an area not likely to freeze.
- If bottling tap water, buy empty containers or use well-washed and sanitized plastic soda bottles (do not use empty bleach, detergent or milk containers). Bottles can be sanitized by rinsing with bleach water. Every six months, empty tap water from containers, wash containers and refill.
- Pouring water back and forth between two containers will add oxygen and make the water taste better.

#### **Treating water**

If you are uncertain about the purity of any water source, treat it before you use it for drinking, food preparation or hygiene. In addition to having a bad odor and taste, water from questionable sources may be contaminated by a variety of microorganisms that can cause dysentery, cholera, typhoid and hepatitis.

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There are two ways to treat water to make it safe for use.

- 1. Filter the water using a piece of cloth or coffee filter to remove solid particles, then heat and bring to a rolling boil for at least one minute.
- 2. If boiling is not possible, water can be made safe to use by adding a disinfectant such as unscented household chlorine bleach or iodine.
  - Filter water through a clean cloth or coffee filter, or allow water to settle and draw off clear water.
  - To use bleach, add 1/8 teaspoon (or 8 drops) per 2-liter bottle of water. Sodium hypochlorite (concentration 5.25% to 6%) should be the only active ingredient in the bleach. There should be no added soap or fragrance.
  - Stir to mix and let stand 30 minutes.
  - If the water smells of chlorine, it is okay to use. If it does not smell of chlorine, repeat steps above. If after this second try the water smells of chlorine, it is okay to use. Otherwise, discard and find another source of water.
  - Store the disinfected water in clean, sanitized containers with tight covers.

If using iodine or water purification tablets, follow package instructions.

In addition, there are many economical water treatment devices available, such as backpacking water filters, water filter straws, etc.

\*NOTE: While the Red Cross recommends preparing for a minimum of three days, every disaster is different and some situations may result in being cut off from resources for two weeks or longer.

Understand your risks and plan accordingly.

There is a high probability that a Cascadia Subduction Zone earthquake, reaching a magnitude of nearly 9.0, will occur in our lifetime. Being prepared to be self-sufficient for two weeks is an achievable goal. You can get there over time, you don't have to get there today.

#### Regional safety and emergency resources

#### 2-1-1 Information & Referral

www.211info.ora

Serves Oregon and Southwest Washington

#### **Oregon Department of Transportation (ODOT)**

www.TripCheck.com

#### **Oregon Department of Environmental Quality**

(800) 452-4011

www.oregon.gov/deq

Information regarding the protection and enhancement of Oregon's water and air quality clean up and release of hazardous materials and management of proper disposal of hazardous and solid wastes.

#### **Washington Department of Ecology**

(360) 407-6300

www.ecy.wa.gov

# The Oregon Department of Geology and Mineral Industries

(971) 673-1555

oregongeology.com/sub/earthquakes/earthquakehome.htm

Information on earthquakes and other natural disasters in the Pacific Northwest.

#### **Pacific Disaster Center**

www.pdc.org

Information on disasters on the Pacific coast.

#### **Oregon Emergency Management**

(503) 378-2911

www.oregon.gov/omd/oem

Information about the prevention, mitigation and management of emergencies or disasters that present a threat to the lives and property of citizens and visitors to the State of Oregon.

#### **Washington State Emergency Management Division**

(800) 562-6108

www.emd.wa.gov

#### **Oregon Office of the State Fire Marshal**

(503) 378-3473

www.oregon.gov/OSP/SFM

Information regarding the protection of Oregonians lives and property from fire and hazardous materials.

#### **Oregon Poison Center**

(800) 222-1222

ohsu.edu/poison/

#### Other useful web sites

#### **American Red Cross**

www.redcross.org

Extensive information on disaster preparedness, response and relief, health and safety training, blood services and volunteer opportunities.

#### Safe and Well

www.redcross.org/safeandwell

Online registration enables family and friends to search for loved ones following a disaster.

## Federal Emergency Management Agency—FEMA

www.ready.gov

A clearinghouse for information on all types of disasters.

#### **Institute for Business and Home Safety**

www.disastersafety.org

Extensive "how-to" information to protect your home and business from natural disasters.

#### **U.S. Department of Homeland Security**

www.dhs.gov

Up-to-date information on homeland security activities and national threat levels.

#### **Center for Disease Control and Prevention**

www.cdc.gov

Information on emergency preparedness and flu pandemic.

#### **National Fire Protection Association**

www.nfpa.org or www.sparky.org

Extensive fire prevention and safety information. "Sparky the Fire Dog" site contains several multimedia educational activities for kids.

#### **U.S. Geological Survey**

www.usgs.gov

Easily accessible information about geological hazards for each state.

#### **National Weather Service**

www.weather.gov

Latest forecasts, preparedness information, explanations of the different types of weather warnings and more.

#### **PublicAlerts**

www.publicalerts.org

News and information on major service disruptions in the Portland-Vancouver metro area. Also sign up to receive notifications by landline phone, cell phone, email and/or text message.

#### **Oregon Hazards Explorer**

http://oregonexplorer.info/hazards

# Oregon HazVu: Statewide Geohazards Viewer http://www.oregongeology.org/sub/hazvu/index.htm

# U.S. Geological Survey: Prompt Assessment of Global Earthquakes for Response (PAGER)

http://earthquake.usgs.gov/earthquakes/pager/

#### **USGS Earthquake Hazards Program**

http://earthquake.usgs.gov/earthquakes/shakemap/list.php?y=2015&n=pn

#### **Pacific Northwest Seismic Network**

http://pnsn.org/

#### **National Flood Insurance Program**

www.floodsmart.gov/floodsmart/

#### **Red Cross Ready Rating**

www.readyrating.org

#### **Disaster Distress Hotline**

(800) 985-5990

Text: TalkWithUs to 66746

www.samhsa.gov/find-help/disaster-distress-helpline

#### **Utilities contact information**

Contact your local utility company to report a power outage (remember that cordless phones will not work in a power outage), to report a downed power line or to restart gas lines.

#### **Clark Public Utilities**

(360) 992-8000

#### **NW Natural**

(800) 882-3377

#### **Pacific Power**

(877) 508-5088

#### **Portland General Electric**

(800) 544-1795

#### **Emergency contacts**

In case of police, fire or medical emergency, call 9-1-1. For non-emergency concerns, refer to your phone book. Unnecessary calls to 9-1-1 can prevent others from getting the help they need. Use the back of this book to fill in the names and numbers of important contacts and make copies for each family member.



The American Red Cross prevents and alleviates human suffering in the face of emergencies by mobilizing the power of volunteers and the generosity of donors.

To schedule a Red Cross preparedness presentation for your school, business or community group, contact **preparedness@redcross.org** or call **503-284-1234**.

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**Prepare! A Resource Guide** was created and produced by the American Red Cross Cascades Region. This book or any portion thereof may not be reproduced or used without consent of the American Red Cross Cascades Region.

# **Be Red Cross Ready Checklist**

☐ I have tested my smoke alarms		My family has practiced our escape plan		
☐ I have working smoke alarms on every floor and in every room where someone sleeps		I know how to shut off my water, power and gas in an emergency		
$\ \square$ I know what disasters are most likely in my area		I have found and secured potential hazards in my home		
☐ My family has an evacuation plan		My family has an emergency supplies kit		
☐ A member of my household is certified in CPR/First Aid		I have a personal emergency kit:		
☐ I have filled out an emergency contact card and chosen my out-of-state contact		☐ At home ☐ At work ☐ In my car  Emergency contact cards		
Write contact information for each member of your household. Make copies for each family member.				
Out-of-state contact person:				
School(s):				
Work site(s):				
Doctor(s):				
Neighbor(s):				
Day care:				
E-mail(s):				
Other:				
Insurance agent(s):				
Family meeting places:				
Outside your home in case of fire:				
Outside your neighborhood in case you can't return home:				
Caretaker for pets:				
Veterinarian:				
Utilities:				
Water District (broken water pipes in street):				
Local Fire Bureau:				
Other utility:				
Other emergency contacts:				
REMEMBER TO:				
☐ Create list for all family members		Store with emergency supplies		
☐ Post on refrigerator		Update all copies when numbers change		



# Free Smoke Alarm Installation

You may have as little as

## **2 MINUTES**

to escape a burning home before it's too late.

The Red Cross responds to an average of two home fires every day in our region.

A working smoke alarm can cut the risk of death from a home fire in half.

The Red Cross Home Fire Campaign aims to reduce death and injury by installing free smoke alarms in homes that need them.



There are three easy ways to get free smoke alarms installed by trained Red Cross volunteers:

**1.** Call:

503-528-5783

2. Online:

www.redcross.org/CascadesHomeFire

**3.** E-mail:

preparedness@redcross.org

—— **CALL** —— 503-528-5783

to schedule an appointment.

In Oregon, this campaign is in partnership with the Office of the State Fire Marshal.