

Agenda

- 1. Pre-Disaster Planning
- 2. Disaster Action Plans
- 3. Post-Disaster Life Saving
- 4. Post-Disaster Survival



Caveat Emptor

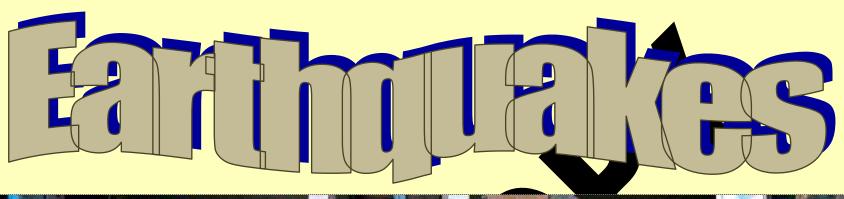
While the procedures contain herein are to do on the average time windows available to handle verice dife-threatening conditions, the forces of nature at the intrinsities they cause cannot be predicted as a vary.

Therefore there is no guarantee the following the procedures contain he ein ill prevent you from home or life.

YOUR CONTINUE CATT. TO EAT THIS SEMINAR OR USE OF THIS INFORMATION CONSTITUTES TO PROBLEM ENT TO HOLD THE AUTHOR AND HIS HIERS HARMLESS FROM ANY AND LOS S, DAMAGES, AND LEGAL LIABILITIES, WHETHER DIRECT, INCIDENT LOS OF THIS MATERIAL.

Types of Disasters

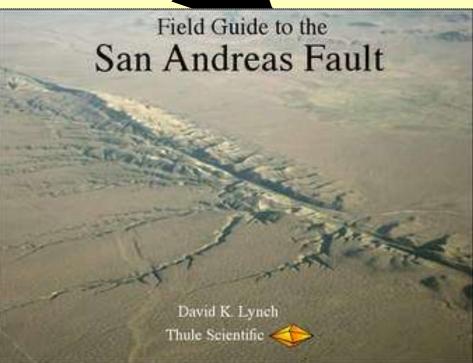
- Earthquake
- Biological Pandemic or
- Fire Storm
- Land / Mud Slide
- Hurricane / Tsu ar
- Tornad@
- Nuclear dent or Attack
- Civil est

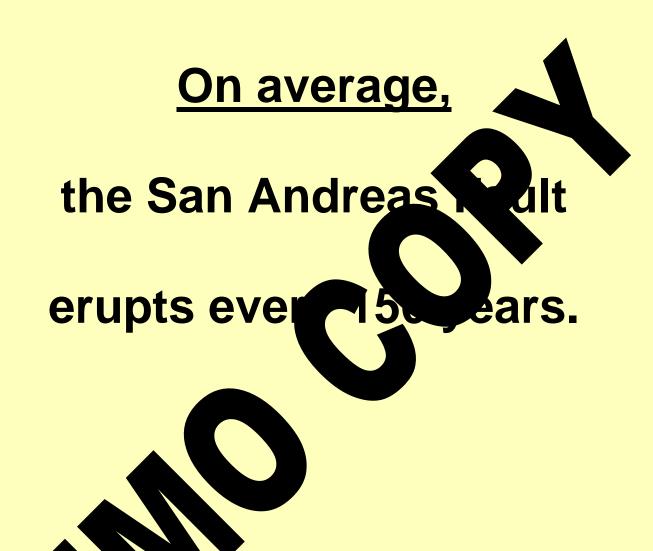




San Andreas Fault









The last ouption was 300 years ago.

On average,

the San Andreas Fault

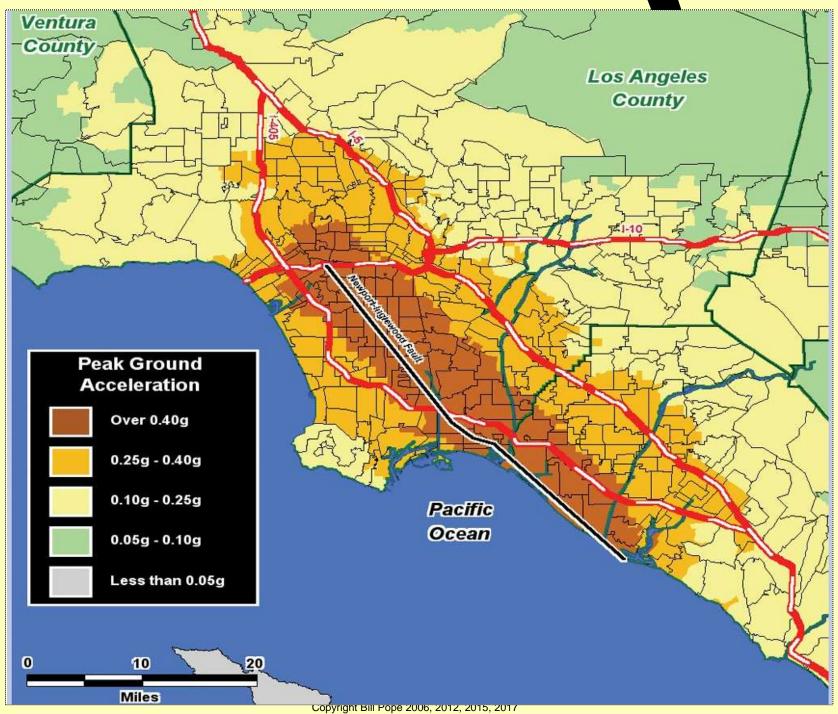
erupts every 150 years.

The last eruption was

300 years ago.

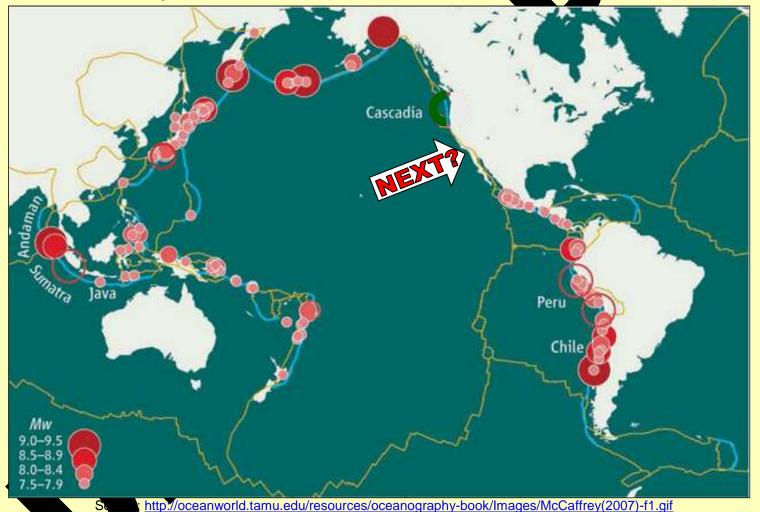
We are 150 years over due!

Newport-Inglewood Fault



When will it happen?

Since the 1994 moderate Northridge quake major, ruakes have occurred at all points around the Pacific and ... except here!



* The quakes were 7 to 153 times larger than the 1994 Northridge quake.

What will it be like?

	Magnitude	Shaki Duratic	round Movement
Northridge	6.7	-20. nds	1 Foot
"Big One"	(7.8 - 8.3)	3 _{mint} 2U _{seconds²}	36 Feet
Newport- Inglewood	(7.0 -	?	?

(Play Earthquake video.)

Point out:

- Video was taken 200 miles from a 9.0 quake (2011, Tohoku Japan).
- LA Downtown is 50 mile from expected 8.3 San Andreas quake.
- A 7.3 on Newport-Inglewood Fault could be much worse.
- What can happen if you don't secure your furniture & cabinet doors.
- What can happen if you try to walk or run.
- What can fall on you if you leave a building.

http://www.nytimes.com/1994/01/18/us/eart/nguake-why-it-happened-scientists-say-unknown-fault-deep-within-earth.html

² U.S. Geologic Survey

What will it cause?

(U.S. Geologic Survey predictions for a 7.8 on San Andreas Fault

- 1,500 buildings collapse.
- 300,000 buildings severely damaged.
- 10 of Downtown's tall buildings may collaps for per second shaking.
- 1600 fires, some taking out entire blocker
- \$213,000,000,000 (\$213 Billion) in datages
- . 1,800 Dead
- 53,000 injured needing emeganic sare.
- 255,000 Homeless
- Sever water supply and leave to the supply and the su
- No electricity or sont in the sto days.
- No food or gate and ays to weeks.
- No water the months.
- Looting has been me rampant by Day 3.

How many can Fire Department help?

Firefighters & Paramedics:

1000

Fire & Rescue Apparatus

273

Incidents addr 33 d Day 1

1.1%

How many can Fire Department help?

Firefighters & Paramedics:

1000

Fire & Rescue Apparatus

273

Incidents addr 35 d Day 1:

1.1%

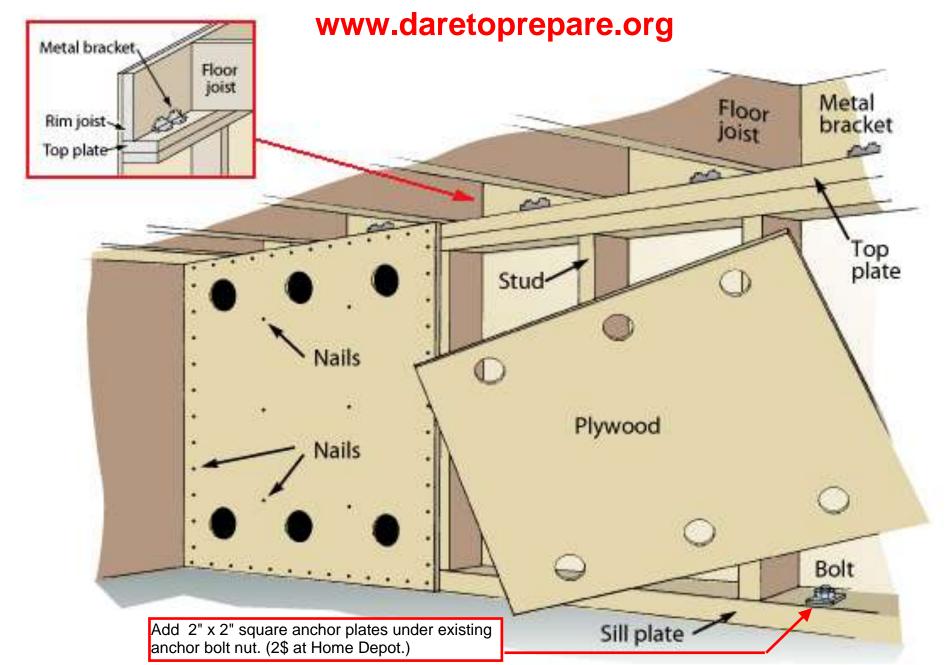
We must prepare <u>now</u>

take care of ourselves

and each other!



Harden your Home.



Harden your Home.



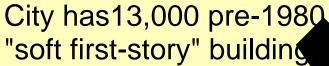




Reinforce or place masonry chimney with prefabricated metal chimney.

Retrofit Soft-First Story Buildings.





- Tuck-under parkin
- Garage doors vs. shear-walls, or
- Retail display windows

A 2015 Orchanne ec res

Ensure retrofit done, ... or move.



16 people killed when soft first-story collapsed.



Retrofit Pre-1980 Concrete-Building.



City of LA has 1,500 non-flexible reinforced-concrete post and slab buildings.

A 2015 Ordina e qui reinforcem by 400

Ensure retrofit done, ... or move.



posts could not withstand the shaking and collapsed allowing upper stories to crush second floor inhabitants.

Non-Ductile Concrete Retrofitting

- Non-ductile concrete frame buildings were a collapse hazard.
 - Right: UC Berkley student dorm.
 - Below: Tohoku Univ. engr. bldg.
- Seismic retrofit was a new steel braced frame connected into the existing concrete structure.





Tall Furniture may topple, crushing or trapping victims.



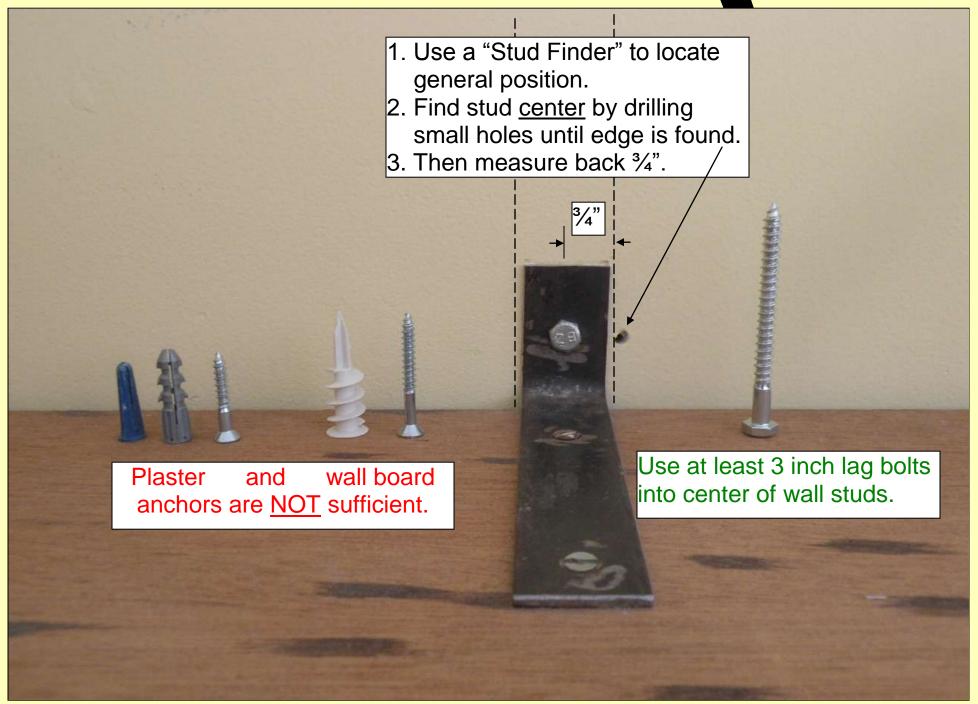
Copyright Bill Pope 2006, 2012, 2015, 2017

Secure tall furniture to Wall Stude,



Copyright Bill Pope 2006, 2012, 2015, 2017

Find Stud Center. Anchor Securaly!



Cable Anchors

rniture.

Mount on the back. Does not damage ma



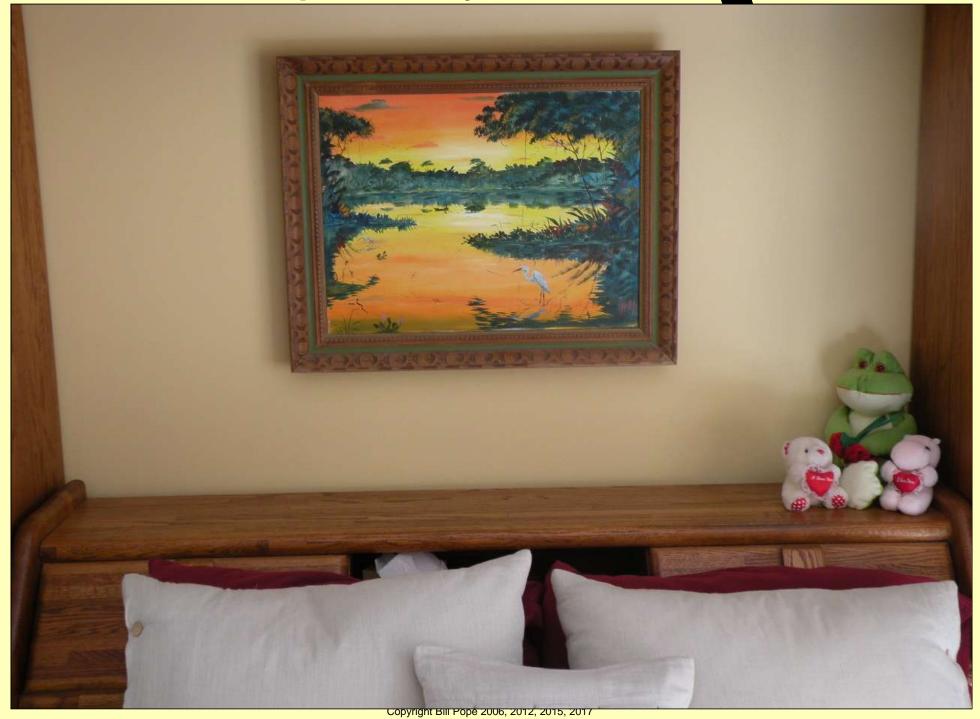
Available from DreamBaby.com

Unsecured Objects can become Airborne Missiles.



Copyright Bill Pope 2006, 2012, 2015, 2017

Earthquake Putty or Remove Them.



Glass Doors, Windows, Mirrors may Shatter. Doors may jam.



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Keep Hard-soled Shoes & Flashlight pear bed.



Keep a Pry-bar in Bedroom.









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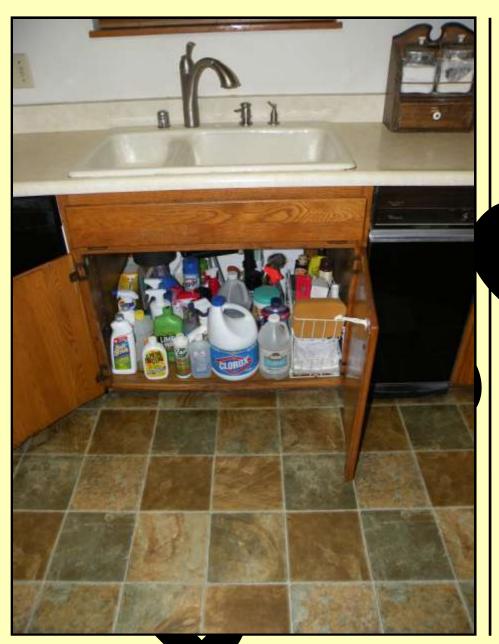
Secure Cabinets.





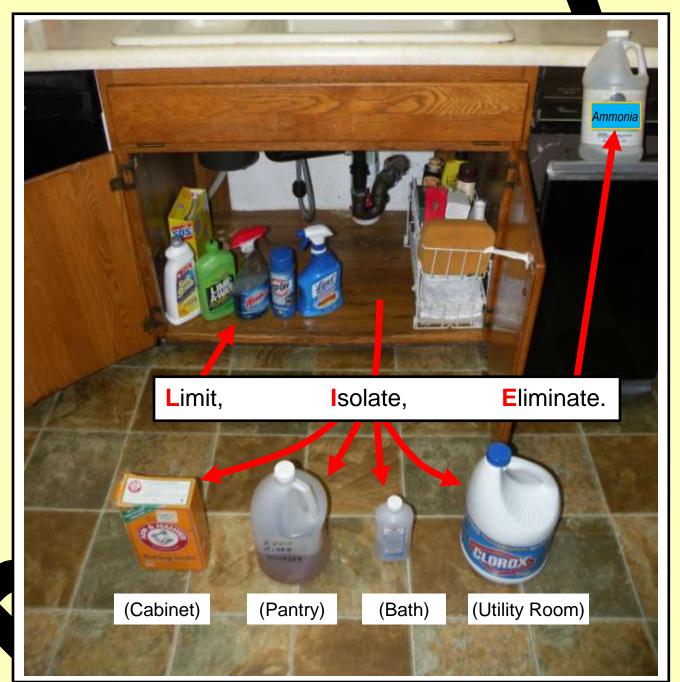


Hazardous Materials.





Limit, Isolate, Eliminate.



Water & Food.

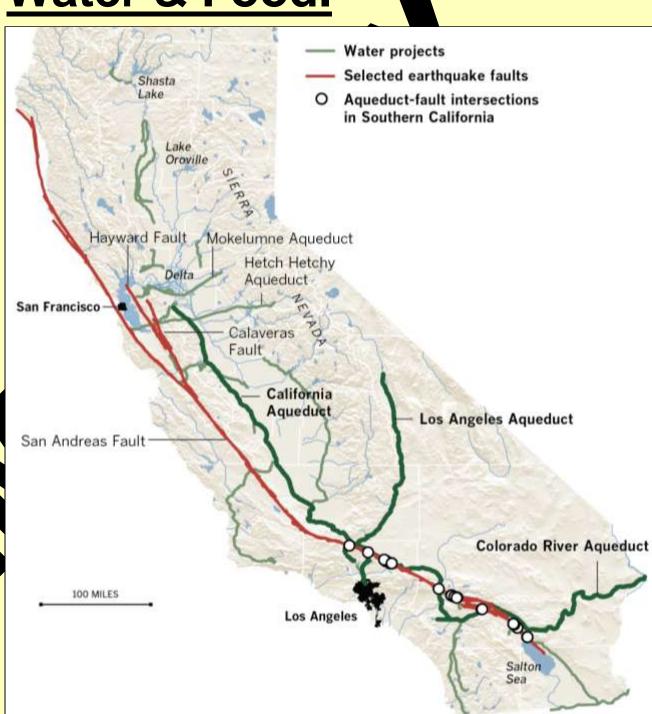
88% of our water and 90% or our food come from the "other" side.

The 3 aqueducts cross San Andreas Fault in 32 places.

All highways from the Central Valley cross the San Andreas Fault.

There may be:

- No Power for a
- No Gas for w. k.
- No Food
- No Wa to



City's Emergency Plans or:



Home Survival Supplies

(Handout page 2.)

3 7 14 day supply.

- Water One gallon a day for each person & pet.
- Foods Canned, Packaged, Freeze-dried.
- Cooking utensils, <u>manual</u> can opener.
- Propane stove / charcoal grill (outdoor use only)
- Lighter / Matches.
- Pet food and restraints.
- Wrenches to turn off gas and water utilities.
- Work gloves and protective goggles.
- Heavy plastic bags & duct tape for garbage, we sealing windows, ground tarps, rain appears, more and tarps.
- Portable radio (crank-able or ext
- Lighting Solar lanterns, glow st
- Heating Firewood. "Space Sank
- Flashlights Crank-able or land and
- First Aid Kit.
- Fire Extinguishers (1) for kitchen.
- Comfortable, lay and cloth, six es, socks.
- Blankets / sleet 1 1 2, ten
- Bath and toiletrie gal sket with seat.
- Medicat
- Vital de ments pirth, citizenship Certificates insurance policies) in fireproof safe.
- Digital data how in offsite or "Cloud" backup storage.

e outside.



www.earthquakecountry.info

Secure Your Water Supply.





If not Self-cleaning, Flush annually to remake sediment.



Food Shelf Life





(Requires water.)

6 Months

ate Shelf Life



6- 24 Months r taste.

(BPA free but may burst.)



Indefinite
if commercially filled and sealed.
Copyright Bill Pope 2006, 2012, 2015, 2017



5 Years (BPA-free and strong.)

Lighting and Heating





Luci 18 hr inflatable Solar \$20



Goal Zero <u>crankable</u> lantern & Cellphone charger.



Wood-burning Fireplace or Stove.



Cover non-sunny windows with foil blankets to reflect heat back into room.



Stores flat.



Kerosene & Propane Heater.







Camp Stove \$80. (More fuel efficient. Use on apartment patio or balcony)



WonderBag \$70
(Bring food to a boil and insert.
Food continues cooking.)



Solar Oven
(Clandestine cooking w 2 cardboard boxes paper insulation and aluminum foil.)

Away Survival Supplies

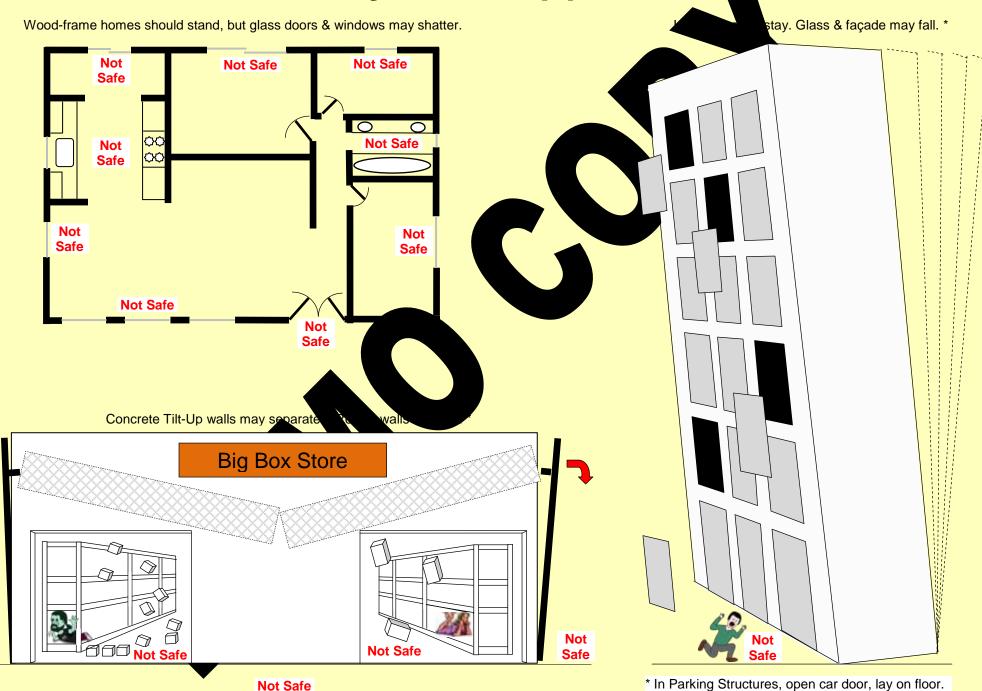
Get-Home & Bug-Out Bag 2 - 3 day supply. Keep one in each vehice

- · Bottled water & LifeStraw water filter.
- Food, high calorie (energy bars, MRE's, unsalted nuts, SPAM, e
- First aid kit & handbook, burn gel, cold compress, scissors, twe
- Medications, prescription list, aspirin doctor's contact information
- Leather work gloves, non-latex exam gloves.
- N95 dust mask
- Sturdy comfortable walking shoes
- Spare eyeglasses or contact lenses and cleaning solution
- · Flashlight, extra batteries, light sticks
- Radio (preferably wind-up or solar)
- Whistle (to alert rescuers to your location)
- Road maps & compass
- Cash in small bills & tradables (james w press metal, mini booze)
- Space blankets, waterproof match
- Knife, ¼" rope, duct tape
- Change of Clothes
- Personal hygiene sy s (too structure wipes, toilet paper, etc.)
- Comfort items for a (gazas, chans, writing materials, teddy bears)
- Special items for expanding a sabled, a smalls.
- Out-of-area
 Out-of-area
 Out-of-area
- Importar
 home, a health trans, medical consents, wills/trusts, etc.)

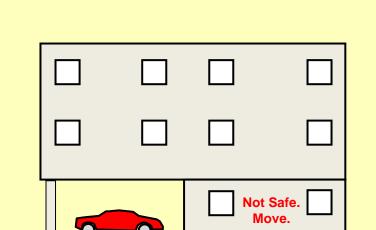


www.earthquakecountry.info

Identify "Safe(r)" Places

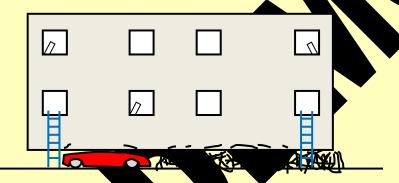


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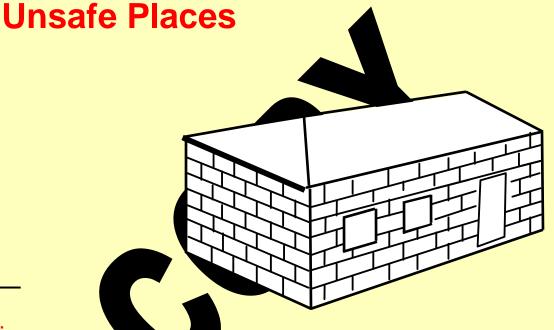
Un-braced "Soft First Story" not safe. Ensure retrofit, move up or move out.

(Higher Levels: Get in bed when shaking starts, and ride it down.)

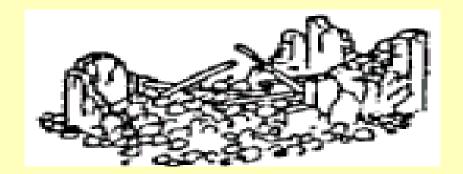


Do not use stairs!

Ride it down, the escape ladder or wait for rescue.



Pre-1933 Un-reinforced Masonry Building Unsafe inside and within 1.5 X height outside.



Ensure reinforcing rods & diamond plates installed, or move.

Soft First-Story Building after Northridge Quake.



Soft First-Story Building after 6.7 Quake.



Un-reinforced Masonry Building after 6.7 quake.



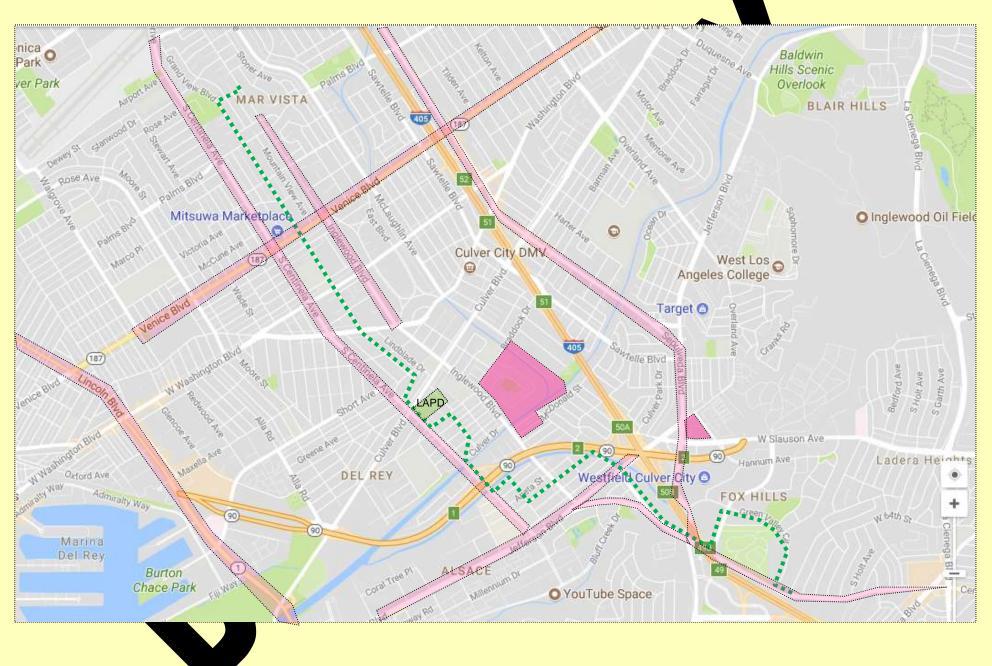
Develop Emergency Plan

(Handout page 10)

Emergency Plans and Notes

Home:	
Work:	
Building Evacuation Routes (Avoid potenti	ial hazards: exits with glass overhead, outside areas near power lines, etc.)
Home, 1 st Choice:	
2 nd Choice:	
Emergency Assistance (enter address and	
Hospital:	
Fire Otation	
Fire Station:	, Use buzzer or Red phone by front door, or leave note on gate
	, Use buzzer or Red phone by front door, or leave note on gate
Police Station:	
Police Station: Out-of-Area Contacts: 1	
Police Station: Out-of-Area Contacts: 1 2 Out-of-Area Meet-Up Place:	
Police Station: Out-of-Area Contacts: 1 2 Out-of-Area Meet-Up Place: (In case your home area is	
Police Station:	
Police Station: Out-of-Area Contacts: 1 2 Out-of-Area Meet-Up Place: (In case your home area is	
Police Station:	
Police Station: Out-of-Area Contacts: 1 2 Out-of-Area Meet-Up Place: (In case your home area is not safe and phone contact is not possible.) Area Evacuation Routes (Avoid Freeways and place)	

Develop Safe-Route-Home Map





Now It's talk about survival to use them!



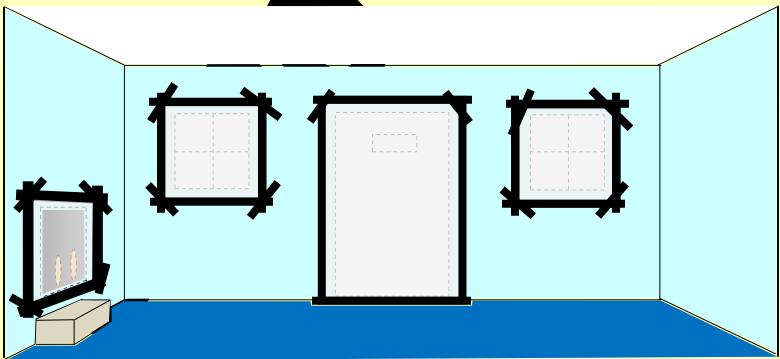
(Handout page 3)

et to do during a disaster.)

Biological or Hazardous Material Leak

Shelter in Place (Clean up. Seal up. Letter Up.)

- Leave outside clothes outside. W Don a mask.
- Seal all openings (windows, don't fire lace, vents) with Plastic. Tape to inside alls,
- Listen up for "All Clear"



Earthquake Action Plans.

If in-doors, stay in-doors.

Drop & crawl away from:

Windows,

Mirrors,

Glass doors,

Unsecured furniture,

Shelves and cabinets.

Cover & Hold on.



If out-doors, stay ou Move away fr Building, Power Pow

If driving pure ver & stop on side of road.

Avoid as asses and bridges.

Fire Action Plans

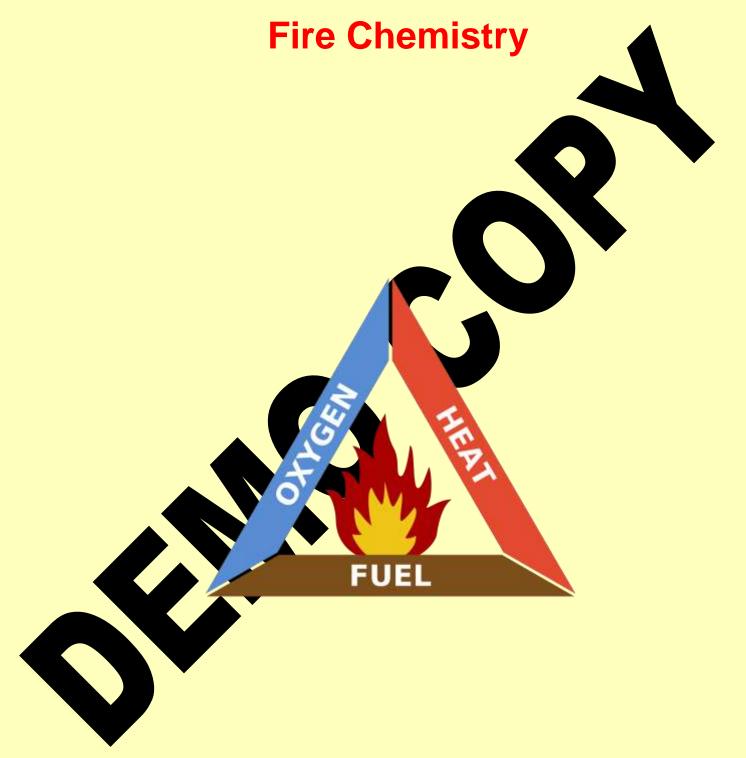


(This is NOT one.)

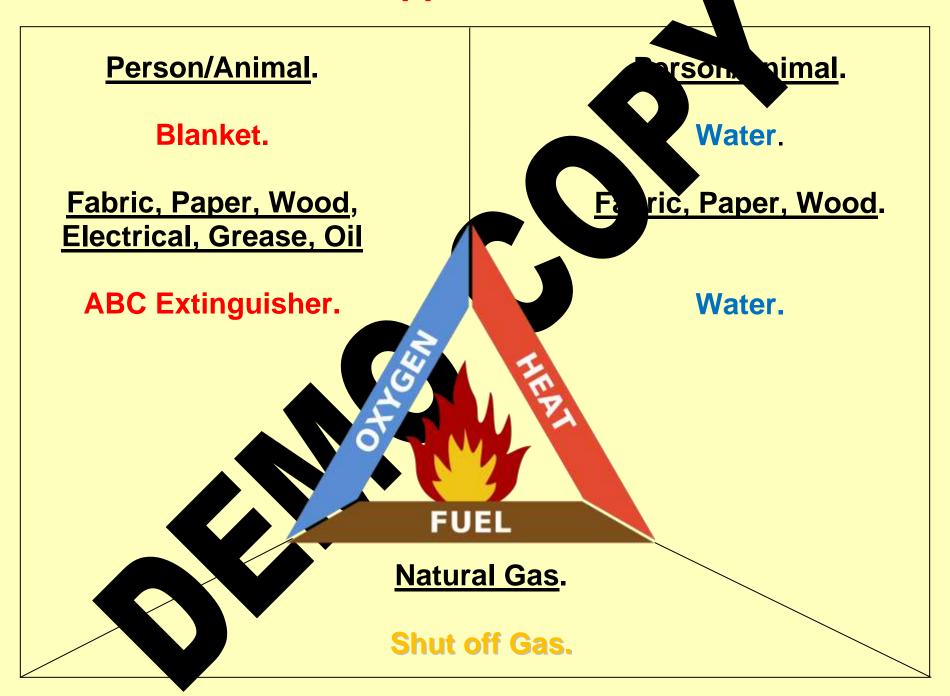
Small Fire Action Plan



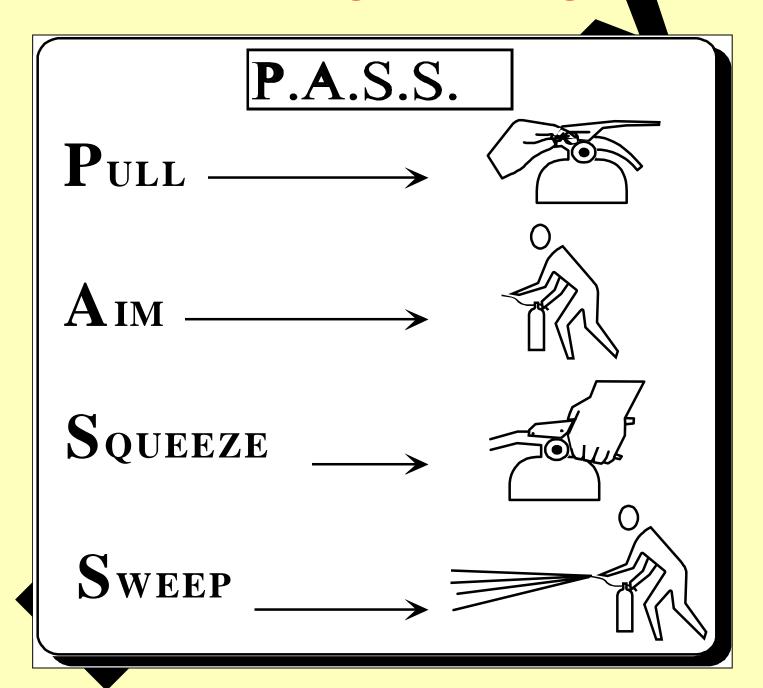
Har at last one 10-B:C Kitchen extinguisher (white) and one - 30-B:C extinguisher (red) on hand. Invert monthly.



Suppression.



Fire Extinguisher Usage.



Escape.

Cover nose & mouth that damp cloth.

Keep low un regie stroke.

Don't h. G. pu.side.



Fires spread house to house. Can wipe out entire block.



Nextdoor-Fire Action Plan.

Pull on. Pull down. Pull away.

- ☐ Pull on natural-fiber clothing, smoke task, goggles.
- ☐ Back vehicle into driveway Lod " Bag" & valuables.
- Pull down all window co ring on threatened wall(s).
- ☐ Pull all flammable and from threatened wall(s).
- ☐ Optional: Unto a properties to hotter than direct sun:
 - a. Deploy have leads (e.g., FireZat or Barricade).
 - b. Extinct shift ebrands landing on roof, and verhangs (eves) with water spray.
- □ Eva when ordered. Leave lights on.

Wildfires wipe out entire neighborhoods.



Wildland Fire Action Plan

(In Wildland Urban Interface areas.)

Get Ready, Get Set, Go

- ☐ Get Ready. Do the following now:
 - Register cell & email with www.Notify A.or county, www.alert.lacounty.gov.)
 - Prepare Go-Bags. (See http://www.mysafela.org/survival-kit/ suggestions.
 - Identify 2+ evacuation routes & meeting places.
 - Clear brush per http://www.lafd.org/fire-prevention/brush/clearance-requirements.
 - Fire-screen attic vents.
 - If pool, buy siphon pump and fit
 - If pets, buy carrier ca
- ☐ Get Set. On Red Flat Des:
 - Move vehicles of the recent eets.
 - Fill-up gas to the vehicles into driveway.
 - On an Evaluation of the NotifyLA:

 Log Go Pag, Jothes, computers, pictures, papers, valuables.
- ☐ Go. O octavic Order:
 - Report into w covering. Pull flammables away from walls.
 - Show ff s and water utilities. (Leave lights on.)
 - Evacuation to area.

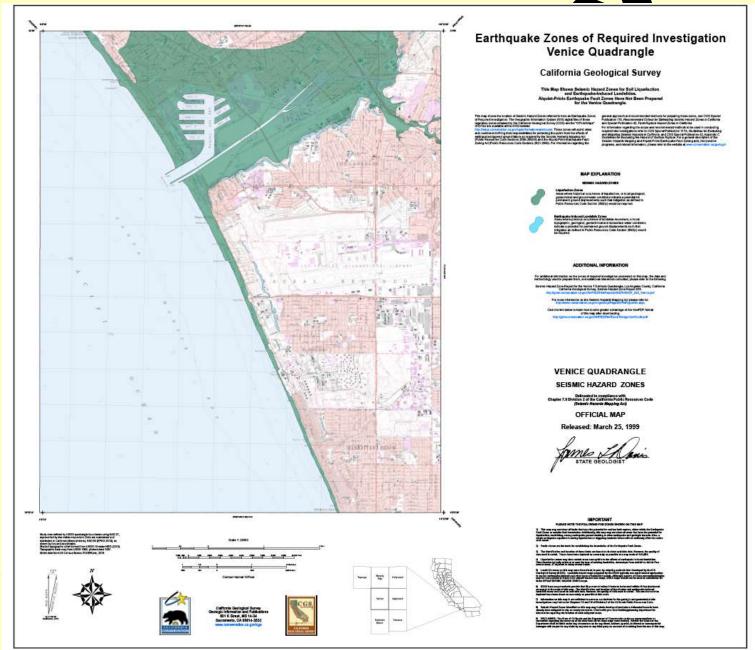
Gas-Main Fire Action Plan.



Pressure S Cal Gas <u>now</u> to install seismic shut-off valves on nature gas transmission and distributions pipelines.

Liquefaction





Hurricane









Tsunami



70 times in last 20 Million years.

Hawaii's Hilina Slump Tsunami

Source: https://www.youtube.com/watch?v=VvMUJKFjAiA



g Island (1/4 of Kilauea) slides seaward 4 inches per year. release = 9.0 earthquake + 1000 to 1600 foot high tsunami.

LA coast hit by 100 foot high wave.

Hurricane / Tsunami Action Plan.

Board up. Gather up. Get up.

- Cover outside of windows with power d.
- Gather up your "Go" bag.
- Get up (away from) the coast,
- Get up in a concrete study building.

Hurricane Harvey dropped 33 trillion gallons of water four times the amount left by Hurricane Katrina in 2005. The 275 trillion pounds caused the Earth's crust under South Texas to give way and sink by two centimeters. - NASA JPL

Tornado



Tornado Action Plan



Open up. Wrap

If you hear " e Tran.

- Open sylving ows a few inches.
- Wrap in lankets.
- Hide in wood-door'ed closet or iron bathtub.

Nuclear Disaster



Tololi Douglas

Types:

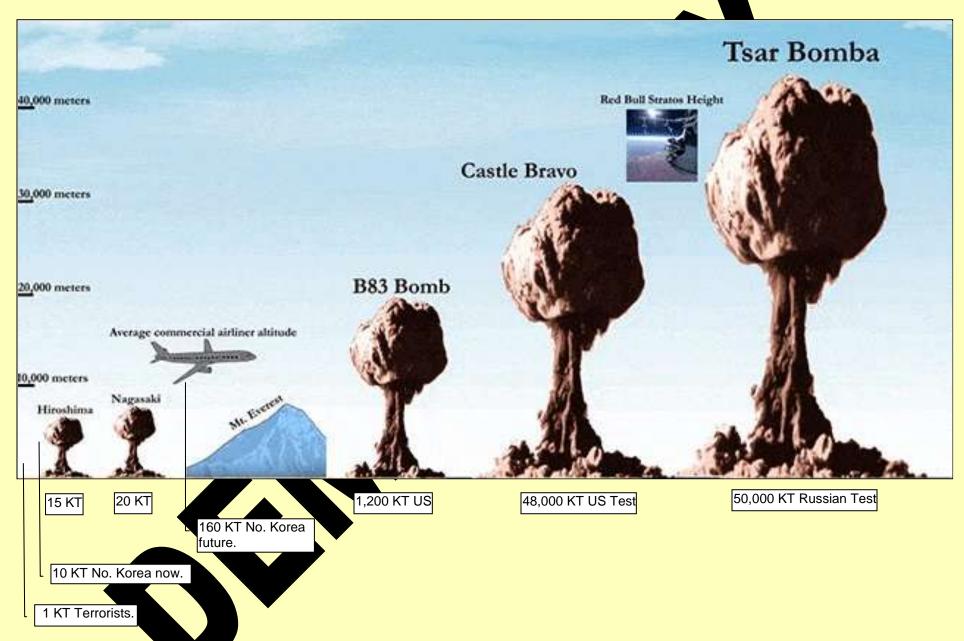
Power an a ck.
Terrorist ck

"Suitca Backpack Bomb".

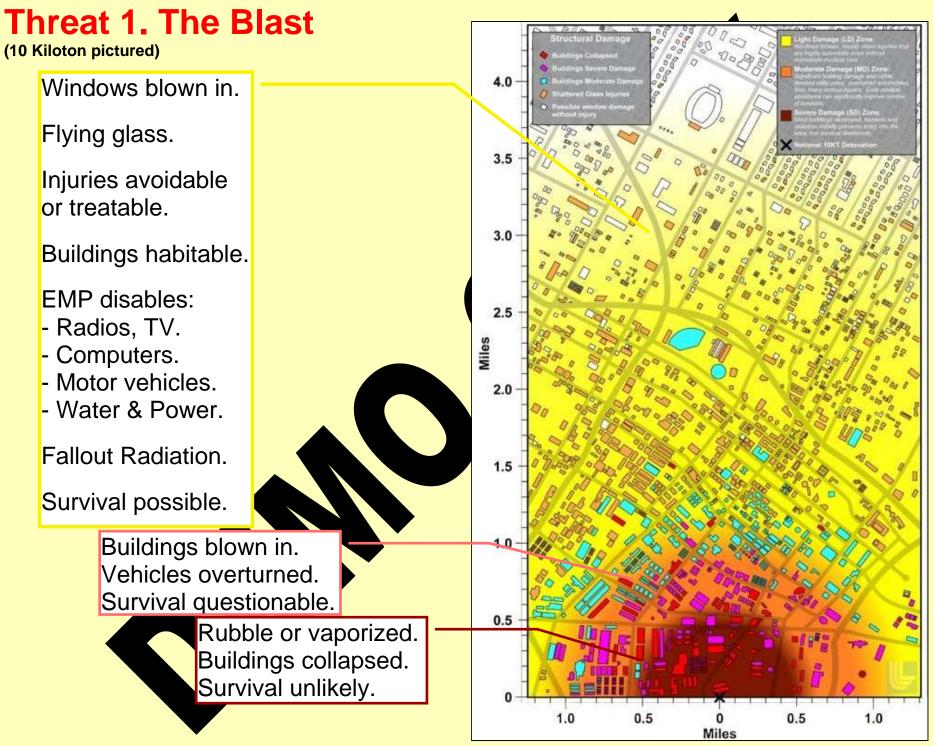
"Dirty Bomb". (No mass destruction. Only contamination.)

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Nuclear Disaster Perspective



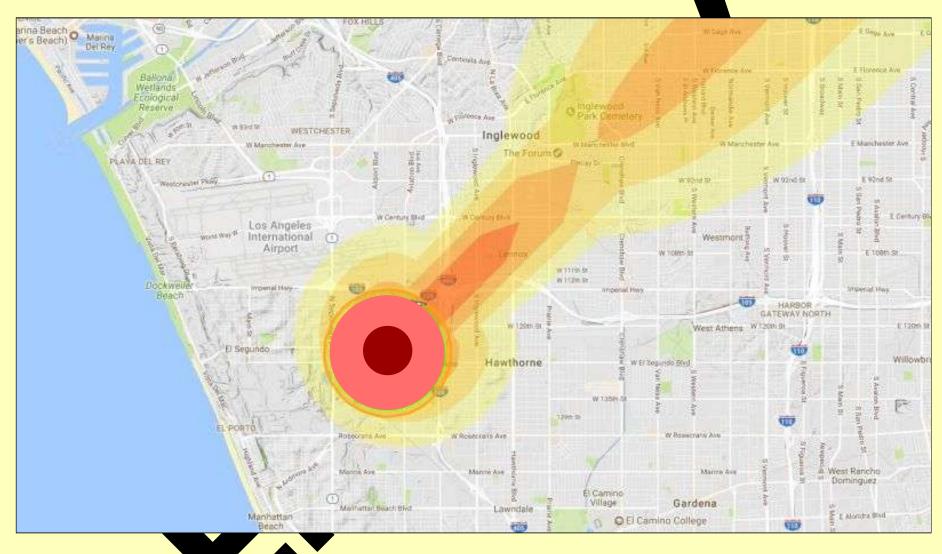
95% survivable, if you know what to do.

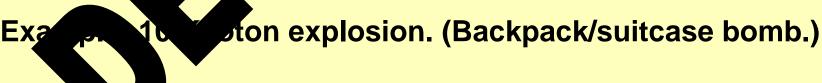


Blast Time Line. 5 4 Blast Wave Blast Wave **Blast Wave** D Q D Q **Blast Wave** Flash + 13 Seconds + 3 Seconds Miles + 8 Seconds

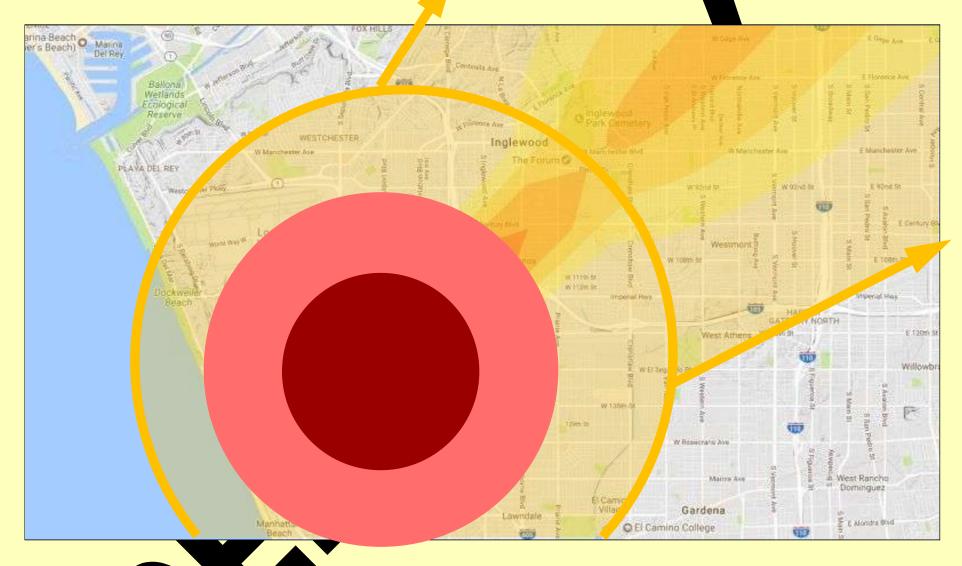
Action Plan: On Bright Flash, Drop and Cover.

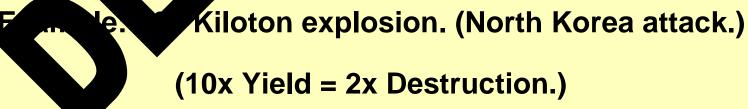
Threat 2. Fallout Radiation.



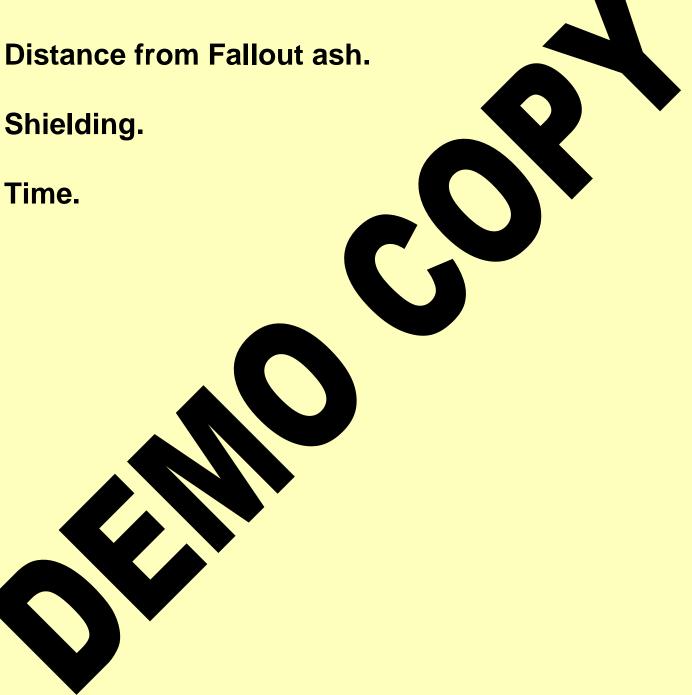


Threat 2. Fallout Radiation

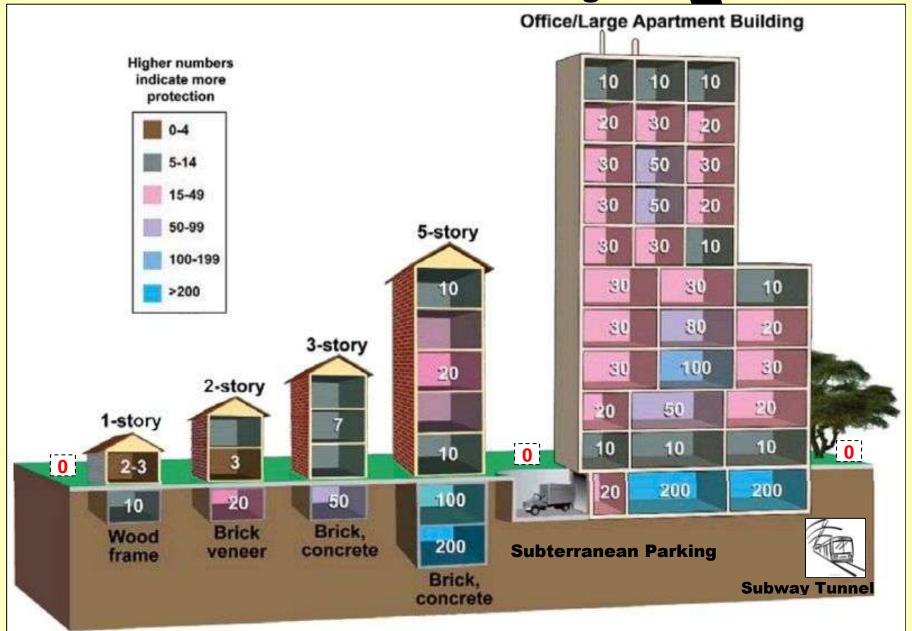




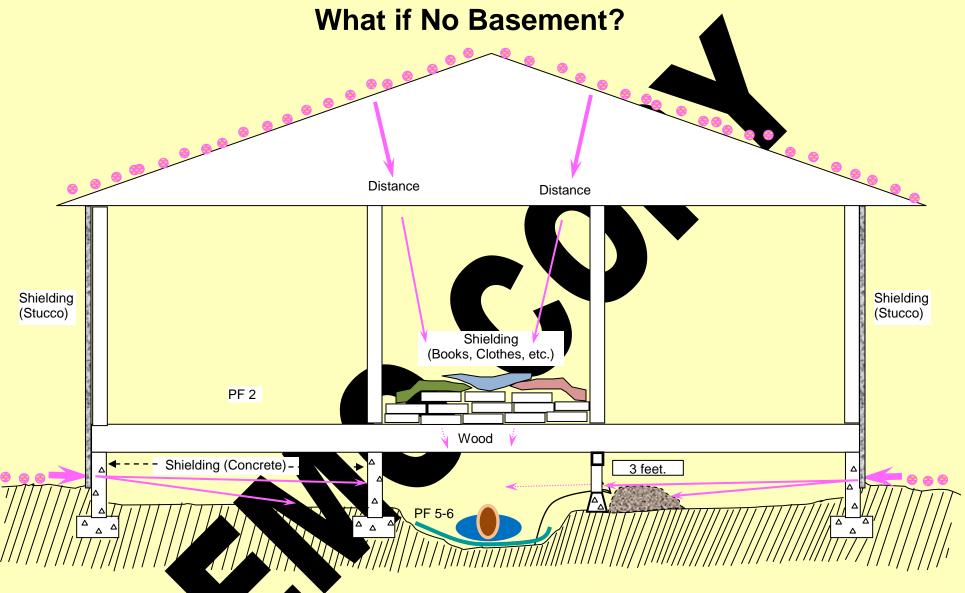
Solutions:



Distance from Fallout ash + Shielding = Protection Factor.



Distance is a follout-bearing surfaces: Ground, Roof. (Greater is better) Shielding (Best to Least): Dirt, Concrete, Brick, Water, Books, Wood, Air.



Dig and stock Shelte, www.

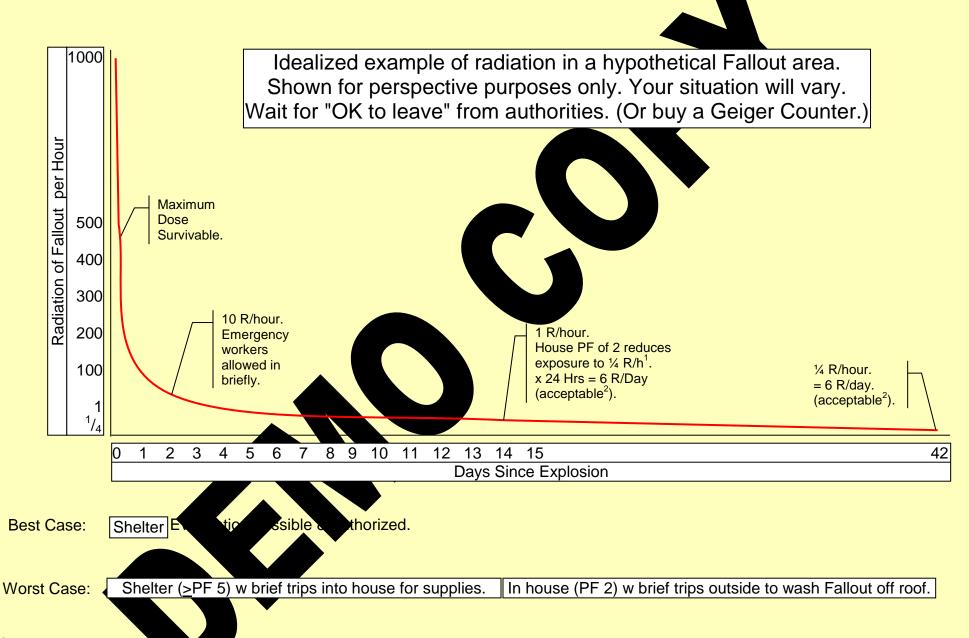
• 2 Gallo pe son & pet.

• 6 Energy Pars person & pet.

- 6 Light States. Dust Masks.
- First Aid Kit stassium lodide tabs).
- 1 Crank Radio/Light.

Pile shielding (books, clothes, etc.) during 5 to 15 minutes before Fallout starts.

Time - It's on your side.



¹ Each Protection Factor reduces radiation dose by ½.

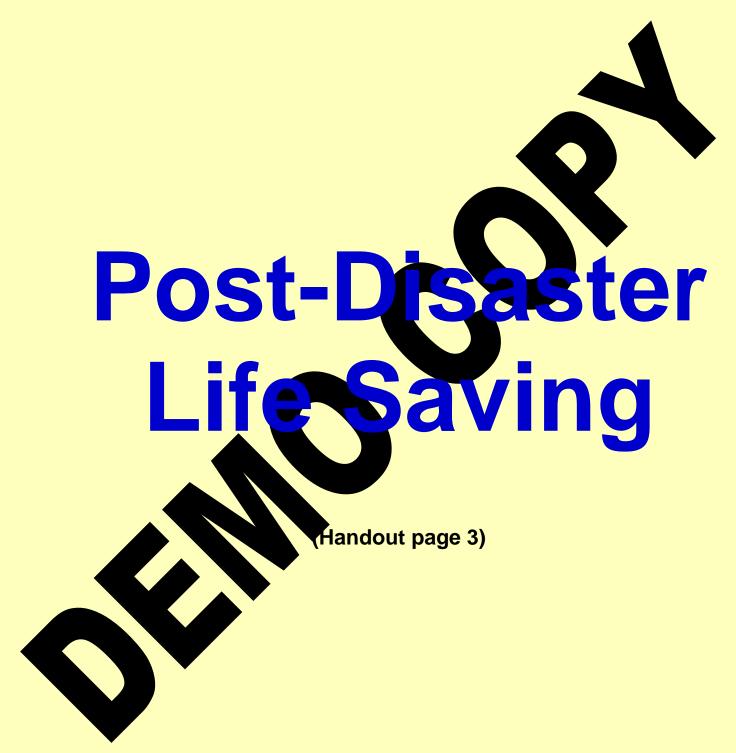
Based on "Nuclear War Survival Skills"; Gresson Kearny, Oak Ridge National Atomic Laboratory, and "Planning Guidance for Response to a Nuclear Detonation - 2nd Edition"; National Security Staff Interagency Policy Coordination Subcommittee.

Nuclear Disaster Action Plan

Get in. Stay in. Tune in.

- 1. On Flash, Dive for cover, or Drop with to de Grash.
- 2. Don mask and gloves.
- 3. Get to best shelter reachable in 65 to 16 minutes.
- 4. Leave contaminated clother outside.
- 5. Get In.
- 6. Stay In. *
- 7. Tune In.

^{*} Potassium Is a le (Ing -adult, 65mg-child, 32mg-Infant) immediately & daily while exposed may help. Caution: Do not take or drink lodine or Povidone-lodine. These are poisons.



BASIC Life Saving.

Based on Critical Time Windows

B Basic Life Saving Intervention.

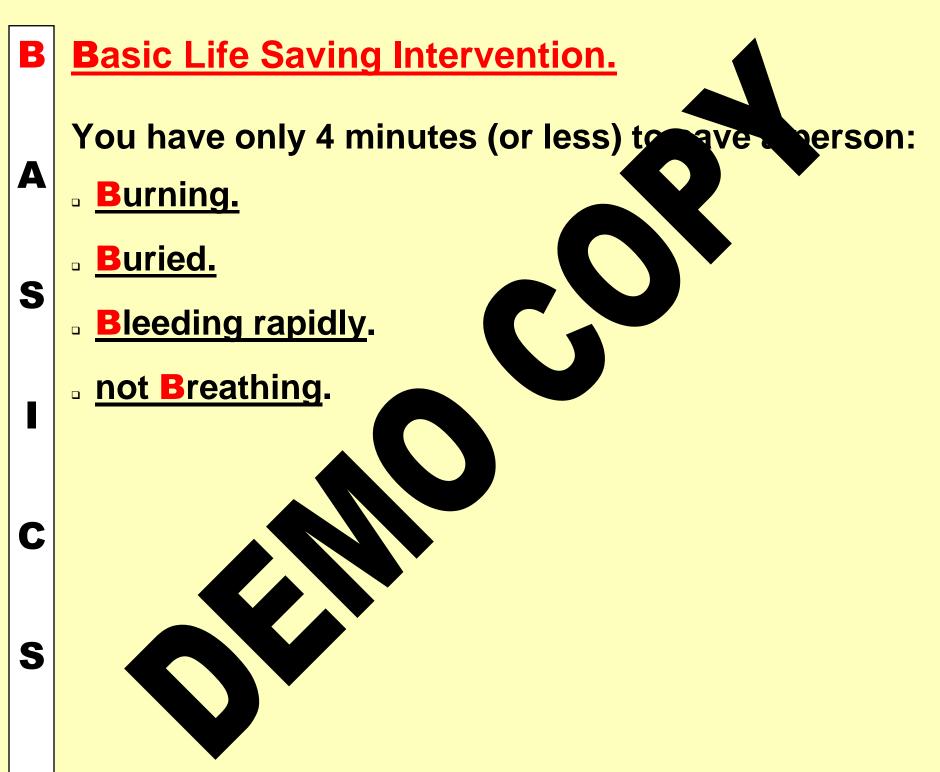
ABCs of Life.

Size up building.
Size-up victims.

Immobilize inierie

C Carry cas alles out.

Sort cast afties for treatment.







S







S

Remove debris from face and weight from chest.

A S

S

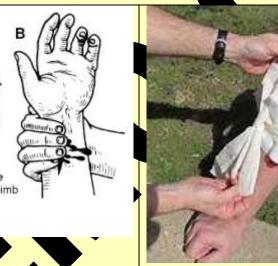
Basic Life Saving Intervention-

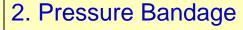
Bleeding rapidly.

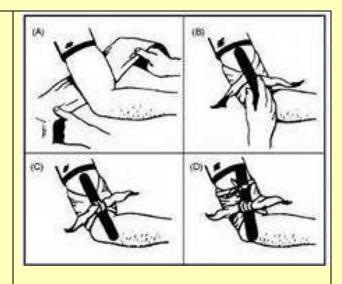
1. Direct Pressure & Elevation

2. Pressure Bandage.

3. Tourniquet.



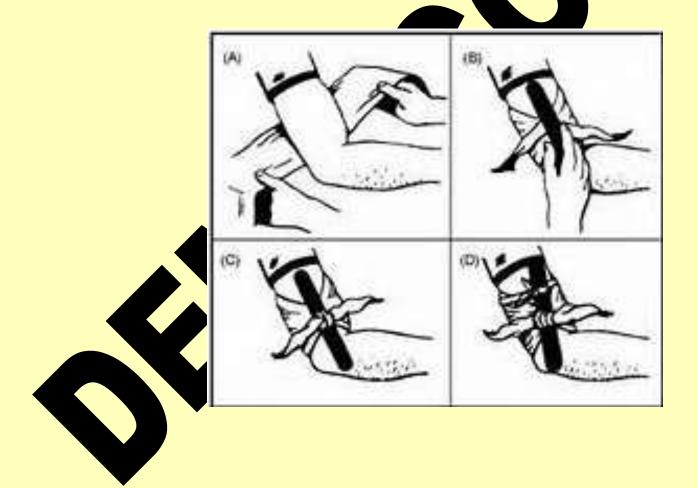




3. Tourniquet on rapid bleeding or amputation.

Practice Break!

Make a tourniquet from something you have with you.





Basic Life Saving Intervention-

Breathing?



Look, Listen & Feel.

- Look at chest & abdomen,
- Listen at nose & mouth,
- **Feel** for carotid pulse, for up to 10 seconds.



If not breathing, check & provide ABCs of Life.

A

S

S

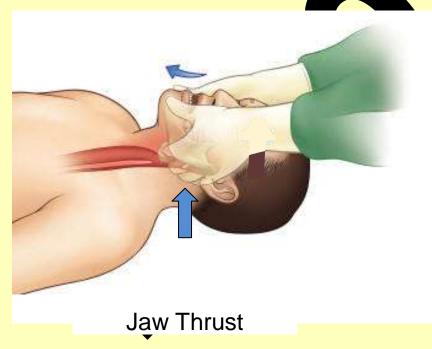
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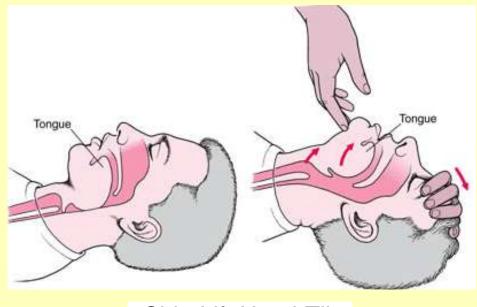
C

S

A ABCs of life.

- Airway. Clear mouth. Open Airway by Jaw Thrust. If no breathe, try Chin-Lift-Head-Tilt.
- Breathing. If Carotid Pulse but still not breathing, start Rescue Breathing.
- Circulation. If no Carotid Pulse, start CPR.





Chin-Lift-Head-Tilt

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Maintain Airway via HAINES Position

(High Arm In Neck Exposed Spine - UK vers 1)

Keeps Airway open while you size up you home for fires and damage that vacuation.

Prevents chocking on stomach discharge.

Keeps spine in line.





Spine not aligned. - Exacerbates any spinal injury Mouth facing up. - Patient may choking or aspirate.

Don't use.



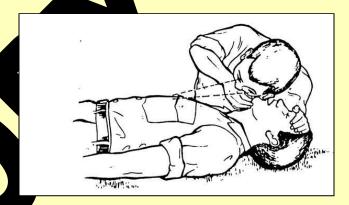
New Recovery Position

Head may slide off arm exacerbating any spinal injury.

Don't use.

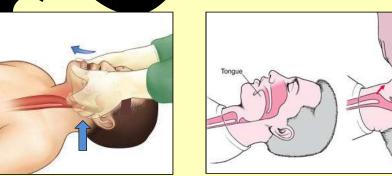
Practice Break!

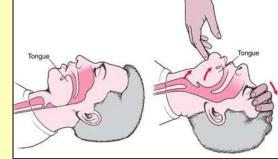
1. Look, Listen & Feel for partner's Breathing.



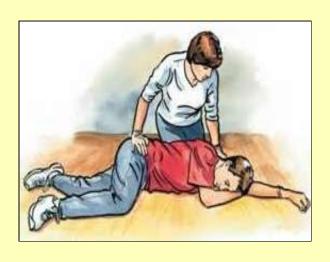
2. Open partner's Air via: Jaw Thrust.

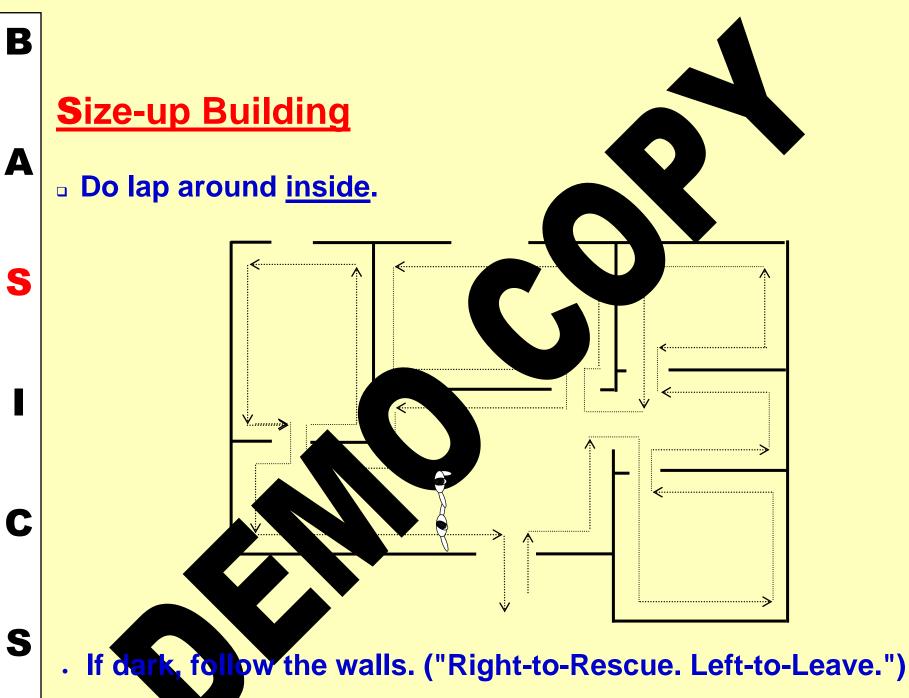
Chin-Lift-Head-T





- 3. CPR (on CPR maniki
- 4. Place partner in HAINES position.
 - 1. Place oss chest, palm on left shoulder.
 - arh atward until straight over head. 2. Swi
 - yr le prearm under pt's right shoulder.
 - t's neck to stabilize it. 4. Grasp b
 - 5. Bend pt's keep to roll pt left.





Check closed doors for heat with back of hand before opening.

B

A

S

C

S

• Smell gas?

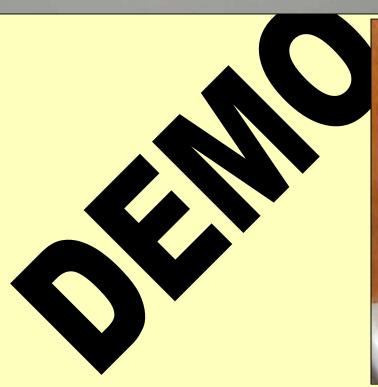




If so, DON'T turn on or off anything electric!







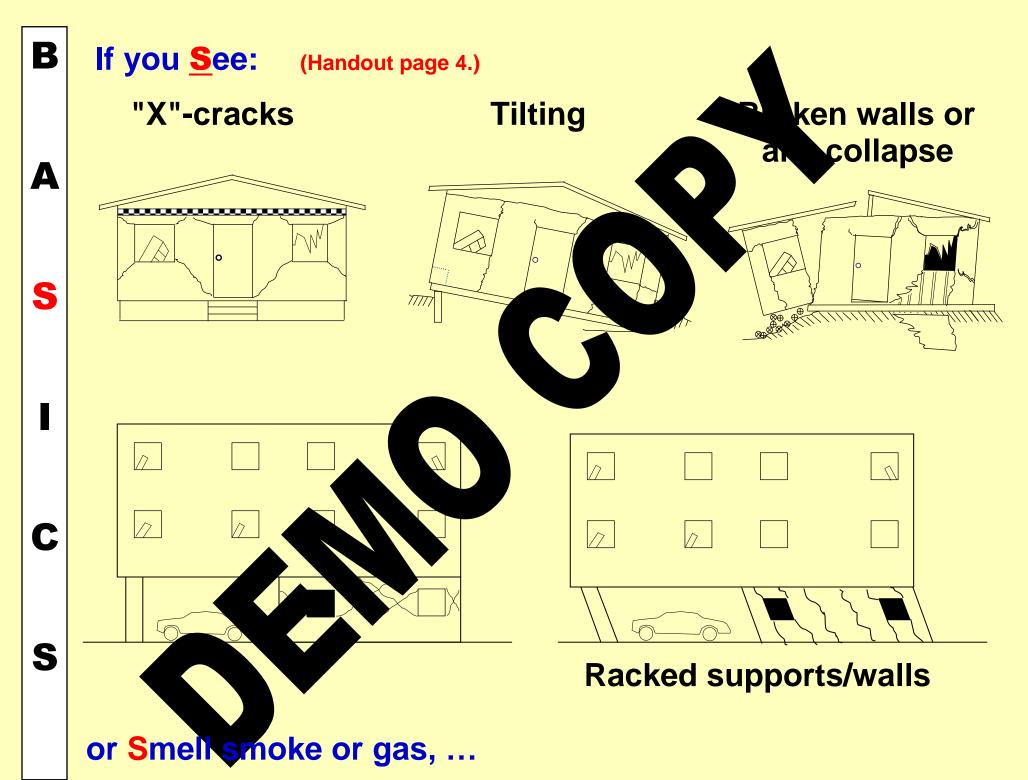


S

Size-up Building (continued).

Do lap around outside.







A

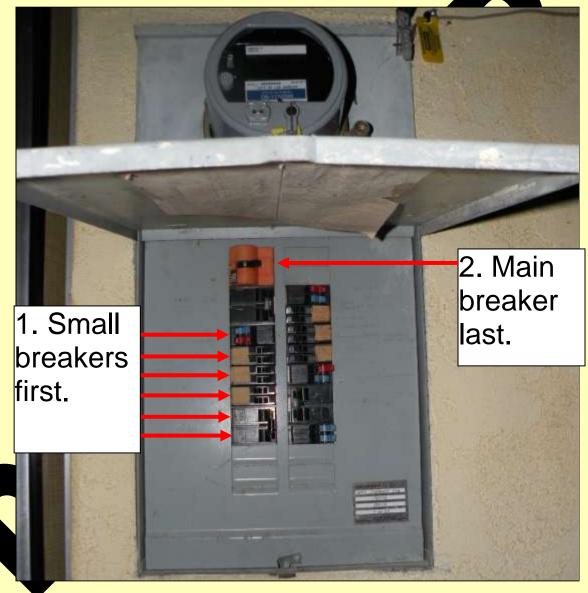
S

C

S

Shut Off Utilities (in alphabetic order).

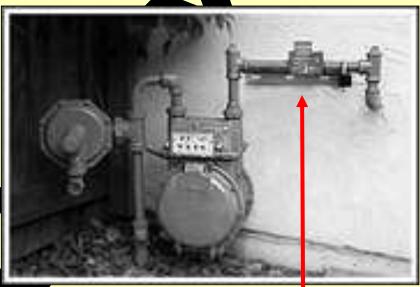
1. Electric Power...



2. Gas...



Keep a shut-off wrench nearby.
Or install automatic shut-off valve.





3. Water.

Prevents contamination of water hot-water tank and in house pipes.







Prevents loosing water in house pipes & water tank.



- bors & windows. Remove window coverings.
- Mo flammables away from wall.

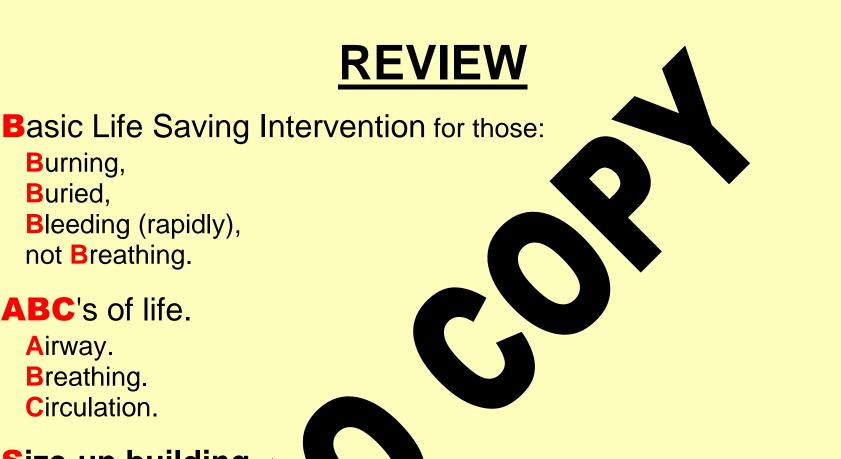
B (Review) A S Size-up Building. If you: ding broken walls or any collapse, or See "X" cracks, Smell gas on C then: (preserves water in pipes & water heater) S ut ut the mobile, Suppless any small fires.

S

S

Size-up Victims for:

- Scene Safety?
 - Sharps? Glass. Plaster or boa ds. Avoid.
 - Wires? Did I shut off Electric
- Spinal injury?
 - Suspect if:
 - Spinal column is tender, or
 - Casualty can't move or feel finger(s) or toe(s), or
 - o Unconscious.
- Skeletal
 - Slide your hands down & gently press arms, hips, legs.
 - Suspect injury if deformed or pain.



A **ABC**'s of life.

Burning,

Buried,

Airway.

S

Breathing.

Circulation.

Size-up building,

Bleeding (rapidly),

not Breathing.

Smell Smoke or Gas

See X-cracked, parated walls, or any collapse? If so, Then ...

Shut-off wasties

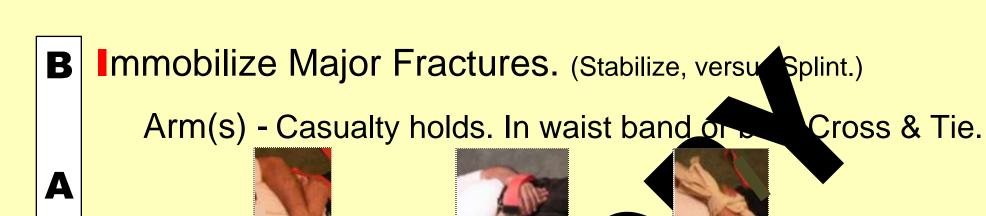
Shout for no e to vacuate,

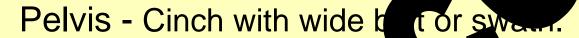
fires. Supress (SI

Size

Tender. Peripheral Motor/Sensation deficit. Unconscious. **Spina**

Skeletal in ctures? Deformity or Pain.





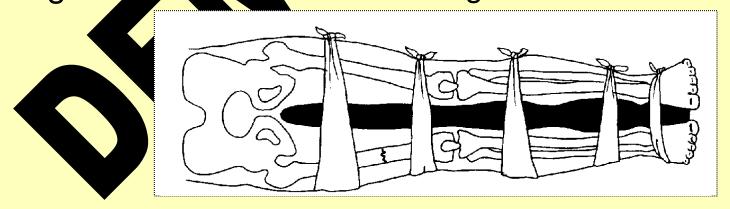
S

C

S



Leg - Pad by the 1. Sind Bad leg to Good.



Carry Casualties out of Harm's Way. (Handout page 5.) Single Clothes or Blanket Drag Fireman's Crawl Pack-Stra Blanket & Litter Person nfold blanket ay poles at 1/3 positions. -old outside 1/3's over poles. Rescue **Carries** S Jackets & Poles Litter Two **Human Crutch** Chair Ca Person Carry Step 1.Turn sleeves (Foot injury) Person ia Street Carry) inside, fasten front, Rescue **Carries** Multiple 6-Person Lift to Blanket or Backboard Carry Step 2. Insert poles thru ilizes head, 3 role victim, 2 slide blanket/backboard under. sleeve holes. Person (For Spinal injury, use 6 – 8 Person Lift-to-Litter.) Rescue **Carries** S

Practice Break!

Blanket drag.

Hint: 1. Place partner in HAINES.

- 2. Scrunch 1/3 of blanket/t ver patner's back.
- 3. Roll partner back surine.
- 4. Pull scrunched bla et/tower out & over partner.
- 5. Roll corners to parties's ead and pull.

Regular or Pope's-Head-Suspended Fireman's Crawl.

Hint: Casualty can the fingers if conscious.

Tie hand to scarf, shirt sleeve if unconscious.

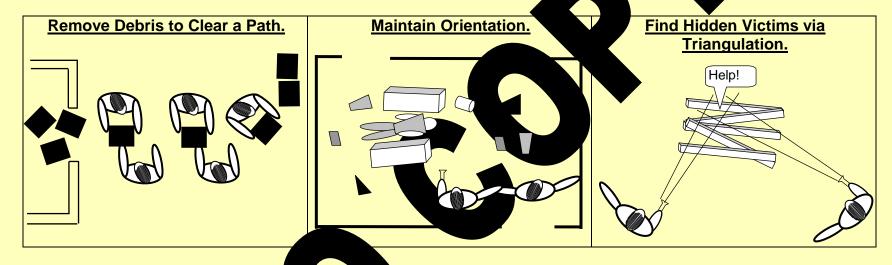
Use zell, te scarf for head-supporting loop.

C

S

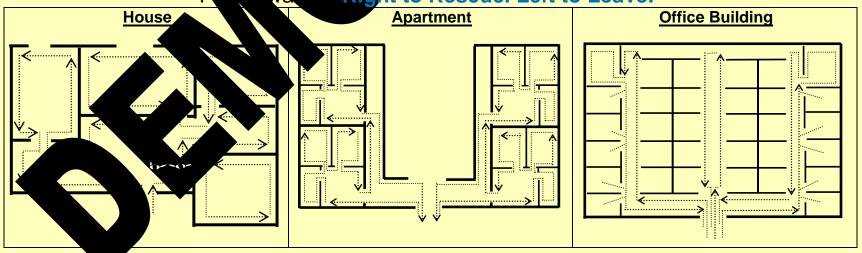
Search for any Missing (or for Exits). Hangle

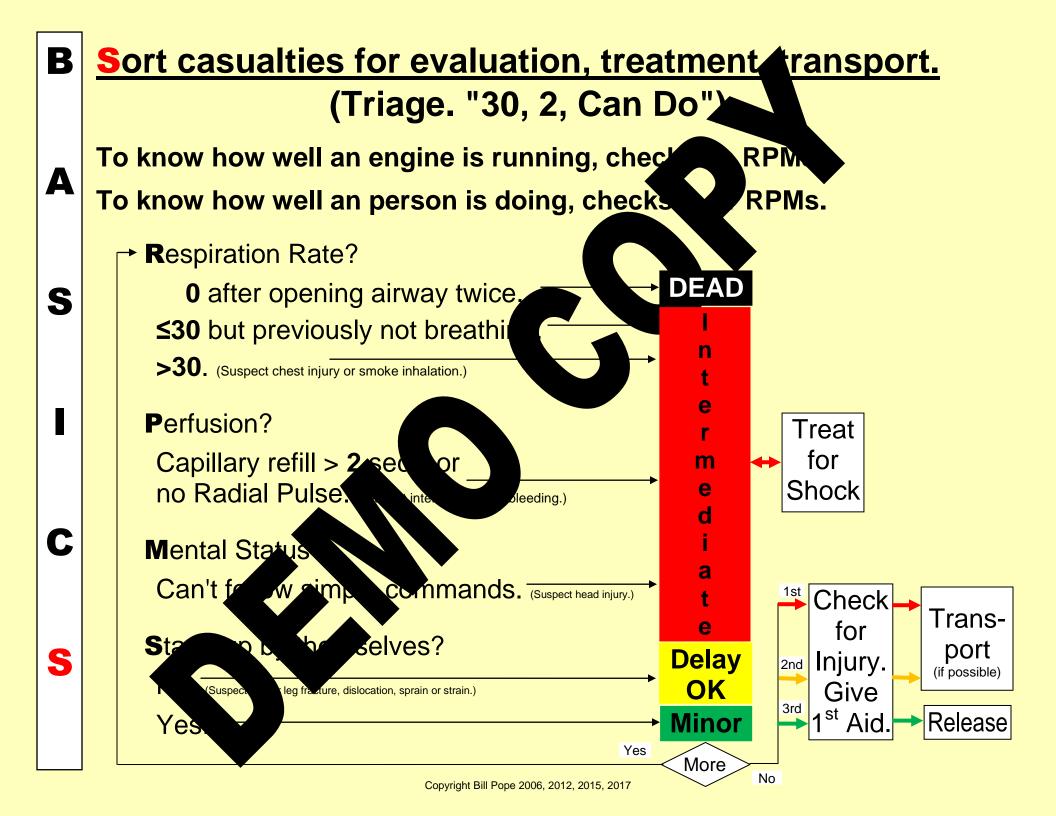
How to:



Search Patterns

wa. "Right to Rescue. Left to Leave."





REVIEW



Alive? Check ABCs of Life.

Airway (Open), Breathing (N. W), irculation (CPR).

Size up building.

Smell, See, Shout-out, Suppress

Size-up victims.

Spinal injuries.

Skele I injuries.

If evacuation real rea, Immobilize long-bone injuries.

Carry Dile ut.

A

S

C

S

S Ch or by missing.

Sort valuation, treatment, transport.



Do a Head-to-Toe exam looking & gently feeling for DOTS:
 (Deformities, Open wounds, Tender Swell, 3).

Provide First Aid to family members. Offer to _____rs.
 Example 1. See PSI* gear.

Head-Neck-Spine: Stabilize head in sition found w padding.

Amputations: Tourniquet.

Abrasions: Clean & Color.

Burns: Cool & Cove

Cuts: Irrigate Close ver.

Dislocations (Joint): Su John Ce.

Evisceration (Exposed organ): Plantic William & warm blanket.

Fractures: Limb: (Splice).

Pelvis & Ice.

Hypothermia: A tyacks. Wrap. Warm sweet drink.

tabilize object with padding & tape. Don't remove.

Rest, Ice, Compress, Elevate (RICE).

Maintain normal body temp.

If BP <80 (no Brachial pulse), raise calves & feet.

If unresponsive, HAINES.

Impaled Object:

Swelling (Sprain/Strain)

Shock

^{*} BSI = Body Substance Isolation gear. (Eye shield, surgical or dust mask, Nitrile or Latex exam gloves.)



Splinting Fractures



1. Cardboard Splint



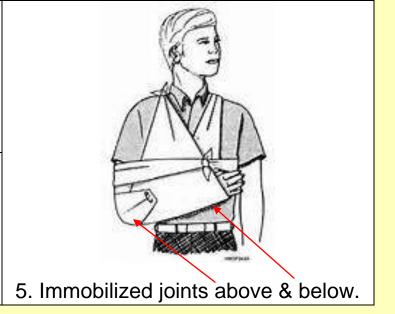
3. Secure splint.



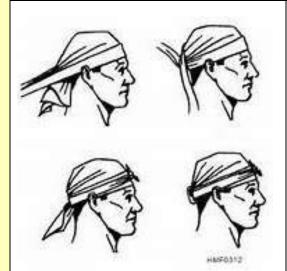
2. Pad between splint and limb.

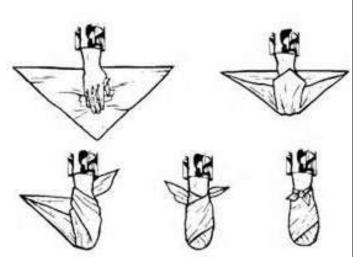


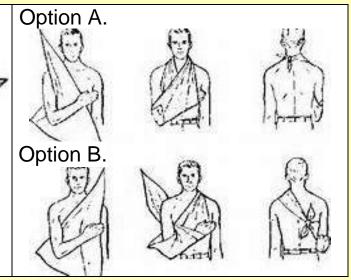
4. Verify Circulation.



age = Many Uses Bar







B

Status report to out-of-area contact.

(Ha	out	page	10.)
-----	-----	------	------

Emergency Plans and Notes

Home:	
Work:	
Building Evacuation Routes	(Avoid potential hazards: exits with glass overhead, outside areas near power lines, etc.):
Home, 1 st Choice:	
2 nd Choice:	
2 nd Choice:	
	er address and direct phone number of nearest):
Lloopital.	
nospitai:	
	, Use buzzer or Red phone by front door, or leave note on gate
Fire Station:	, Use buzzer or Red phone by front door, or leave note on gate
Fire Station:	
Fire Station: Police Station: Out-of-Area Contacts: 1	, Use buzzer or Red phone by front door, or leave note on gate
Fire Station: Police Station: Out-of-Area Contacts: 1 2 Out-of-Area Meet-Up Place:	, Use buzzer or Red phone by front door, or leave note on gate
Fire Station: Police Station: Out-of-Area Contacts: 1 2 Out-of-Area Meet-Up Place: (In case your home area is	, Use buzzer or Red phone by front door, or leave note on gate
Police Station: Police Station: Out-of-Area Contacts: 1 2 Out-of-Area Meet-Up Place: (In case your home area is	, Use buzzer or Red phone by front door, or leave note on gate
Fire Station: Police Station: Out-of-Area Contacts: 1 2 Out-of-Area Meet-Up Place: (In case your home area is not safe and phone contact is not possible.)	, Use buzzer or Red phone by front door, or leave note on gate
Fire Station: Police Station: Out-of-Area Contacts: 1 2 Out-of-Area Meet-Up Place: (In case your home area is not safe and phone contact is not possible.) Area Evacuation Routes (Avalatical Area Evacuation Routes)	, Use buzzer or Red phone by front door, or leave note on gate



Survival Skills

1. PERSONAL

Do's and Don'ts.

2. SHELTER

Securing, Finding or Building

3. FIRE STARTING (Heating, Cooking) Methods.

4. WATER

Filtration, De-chlorination, Desalination, Dishert, Purification,

5. FOOD

Finding, Snaring, Trapping.

6. COOKING

Methods to reduce fuel and dor.

7. SANITATION

Collection & disposal.

8. COMMUNICATION

Possible methods.

9. INFORMATION

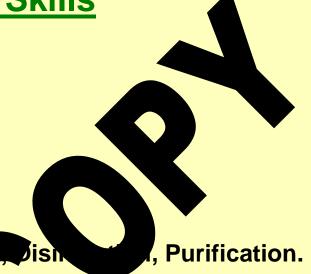
Sources

10 SECURITY

Best mods

11. FIGHT OR FIGHT

Travel on foot at night by star or red light.



1. PERSONAL

Don't

- Panic.
- Sweat.
- Get Cold.
- Get Tired.
- Brag about your preparedness.

Do

- Think.
- Hydrate.
- Rest.
- Kide.
- Be Quiet



If you home is habitable, Secure it.

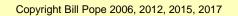
Board up front entrances.

Lock gates.

Opaque windows.

• Silence dogs.

Make front yard look like ous lready raided.



2. SHELTER

Find.

Red Cross Shelter (Park Rec Centers, Auditor Churches.

Build.

Principles:

- Dry.
- Preserves body heat
- Defensible.

Methods (best to we can be

- 1.Block off true ly-stable section of home with plywood, "Space to plastic sheeting, etc.
- 2.Ter
- a campfire if hypothermic).
- Sour facing wall + cardboard/debris/brush wind-barrier.
- 5. Led d clothing & poncho.

3. FIRE STARTING

Magnesium Spark Generator.



Gum Wrong & Battery.



Magnifying or Reading glass & s



Bow & Spindle.



3. FIRE STARTING

My All-Time Favorite



4. WATER ACQUISITION - Solar Well.



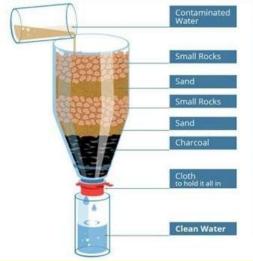
4. WATER PURIFICATION METHODS Solar Still.



Copyright Bill Pope 2006, 2012, 2015, 2017

4. WATER PURIFICATION METHODS.

Filter



Use a pant leg or cone shaped object and fill with charcoal from your fire and two alternating layers of clean sand and small rocks.

Removes debris, chemicals & chemicals

Disinfect by Boiling.

- Boil water for 5 minutes to be sure all bacteria is dead.
- Boiling will NOT remove minerals, solids, or metals in the water



Kills Fig. 7 ia & viruses.
(Pasteurization (10.00 for 10 minutes) kills most.)

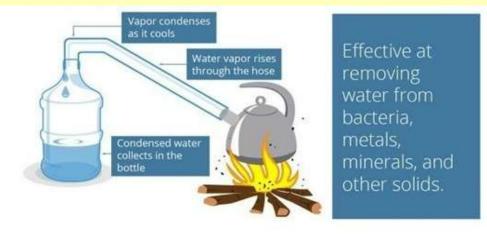
Disinfect woone / Bleach.

lodine tablets or Chlorine drops are effective at killing bacteria in the water but may result in an undesirable taste.



if cloudy. Stir. Let stand 30 minutes.
Kills bacteria & viruses.

Disinfect & Purify by Distilling.



Kills bacteria, virus. Remove salt, heavy metals.

4. WATER PURIFICATION METHODS





- Filters at least 1,000 liters of water (264 gallons).

- Removes up to 99.9999 percent of waterborne bacteria.

Removes up to 99.9 percent of waterborne protozoan cysts. (parasite)

- Reduces turbidity by filtering particles of approx 0.2 microns. (bacteria)

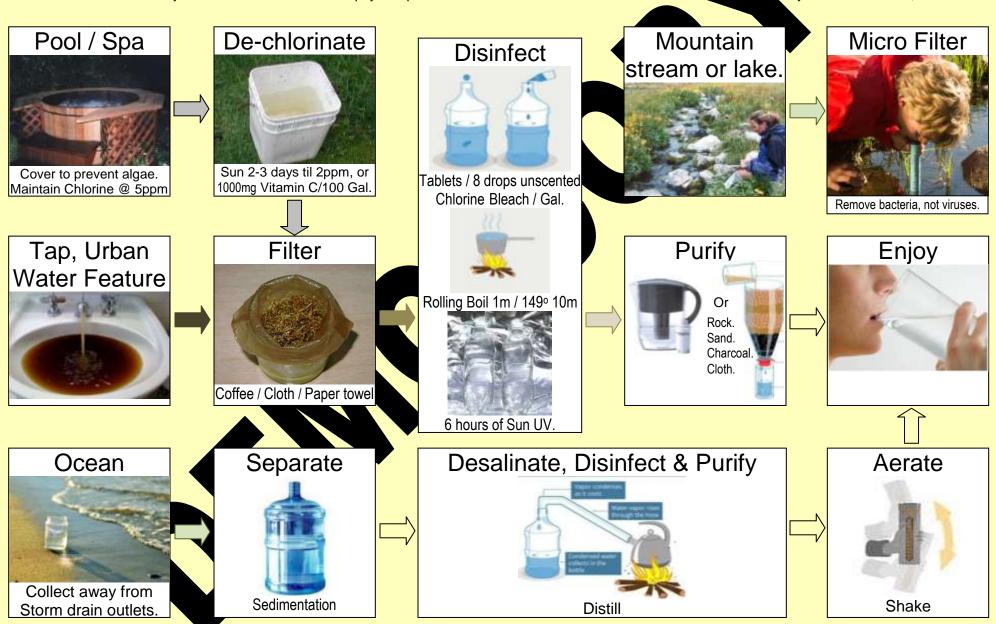
Does <u>not</u> remove viruses. Use only in wilderness/backcountry.

(A 0.02 micron pump filter is needed to remove viruses.)

4. WATER PURIFICATION PROCEDURES.

(In case you didn't stock enough or the City doesn't provide. Handout page 9.)

50% - 75% of human body is water. 1% loss = mental & physical performance decline. Thrust = 3% loss. Drink now 4 days. Drink bad water, die in 3.



5. FOOD

Consume stored food in following order:

- 1.Refrigerated
- 2.Frozen
- 3.Canned
- 4. Freeze-Dried.

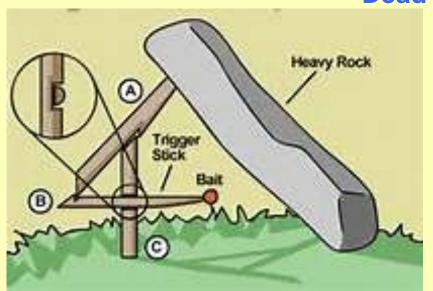


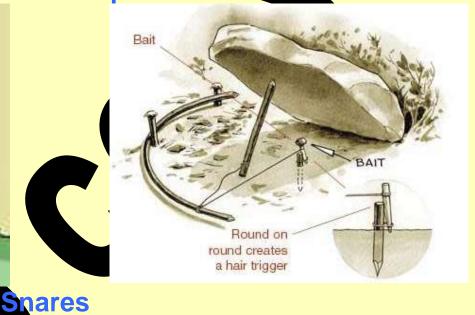
- 1.Solar Oven
- 2.Propane
- 3.Charcoal
- 4.Old dry wood versus new wet wood.

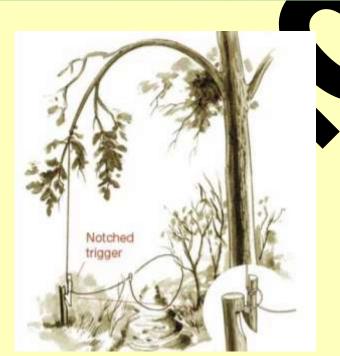
5. FOOD ACQUISITION - Dead-Fall Trap

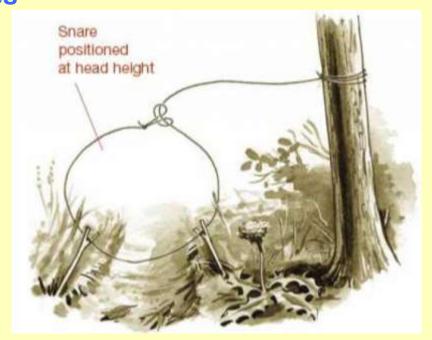
(In case you didn't stock enough.)

Dead-fall Traps

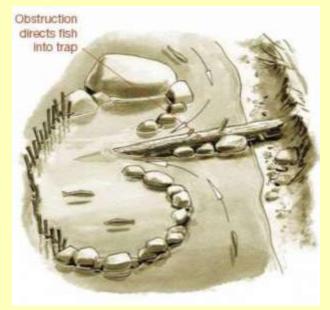








5. FOOD ACQUISITION - Fish Traps









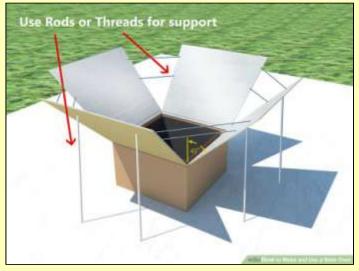


6. COOKING - Solar Oven

- 1. Cover inside of small box with aluminum foil.
- 2. Cover flaps of large box with aluminum foil.
- 3. Place small box inside large box adding crumple or shredded paper to insulate.
- 4. Place a grate or 3 rocks in small box to hopot off bottom for heat circulation.
- 5. Put food in black pot.
- 6. Put pot on grate or rocks.
- 7. Cover small box with glassor lastic was a
- 8. Adjust flaps periodic by to a sun s rays reflected onto pot.
- 9. Cook twice as an english us

(Minimize odder)





http://www.wikihow.com/Make-and-Use-a-Solar-Oven

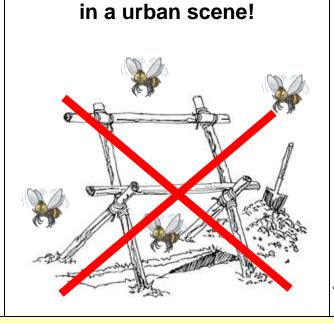
7. Sanitation*













Seal & bury or contain Waste!

8. Communication

Most Convenient to Most Reliable (maybe):

- 1. Corded Phone connected to non-case and line.
- 2. Cell phone Text message.
- 3. Cell phone Voice.
- 4. FRS Radio
- 5. GMRS Radio
- 6. Ham Radio
- 7. Runner

9. Information

Have a Solar/Crank-chargeable Radio for News

- Road conditions.
- Food & water locations.
- Shelter locations.
- Civil-unrest threats.
- Transportation options.

Register Cell nurses:

- Notifylax (Signature http://emergency.lacity.org/notifyla), or
 - Text"Ready" to 888-777, or @NotifyLA on Twitter.)
- Aurt-La (Sign up at http://www.lacounty.gov/emergency/alert-la/)

10. Security

Close-Range Self-defense, 1 Hand gun per adult, sized to fit user's hand.

.38 caliber minimum.

.38 Hollow-point bullets = .47 m. Stopping Power.
Revolvers more reliable that Semiauromatic Pistols.
Double-action faster than Silver Stopping Power.

Laser Sighted best in the circ.

Home, Food & water 1 1 shotgun,



Smith & Weston 38 M&P Special

"Bodyguard"

Pump-ac er, more reliable than automatic.

20 gaves in time.m.

Short & Carry but still Loud.
Short & Barrel best inside.
Don't loa, chamber until needed.



11. Fight or Flight

Stay (& fight) after:

- Biological Events.
- Earthquakes
- Nuclear Events.
- Tornados

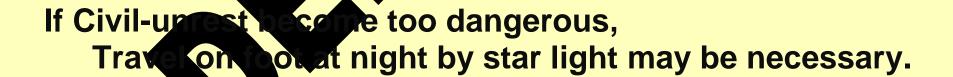
Safer in your home than outside or the road.

Evacuate before:

Fire Storms

Hurricanes

Tsunamis



Follow-On Training Opportunities

A. Community Emergency Response Training.

- Personal response at a Mass Casualty Incident. (Work or public place.)
- Concept oriented.

B. Neighborhood Emergency Response Team Training.

- Personal Response at Home, Business or MCI.
- Team Response to Neighborhood.
 - Downed power-lines.
 - Ruptured gas or water mains.
 - Unsafe roads
 - Hazardous Materials.
 - Large Fire containment.
 - Urban Search & Rescue Moderate & Light.
 - Advanced First Aid & Life Support.
 - o Patient Transport.
- Procedure oriented. GuideBook w one-page Guides/job.

Why you need a NERT

After an major disaster, Emergency 5 rvices will deploy to:

- 1. Hospitals
- 2. Schools
- 3. Businesses
- 4. Shopping malls
- 5. High-occupand idential.

Not to single-family residential.
We must take care of ourselves!

A Neighborhood Emergency Response Team is your best chance of rescue if you are injured or trapped.

NERT Training

Includes:

- Neighborhood Command Center Operation
- Neighborhood Damage Assessment
- Managing the 8 typical neighborho
- Large Fire Containment.
- Urban Search & Rescue.
- When and how to force entry.
- Rapid Trauma Assessment before noving a patient.
- Non-injurious patient
 Sale extraction methods.
- Use of backboard scape stechers, extraction straps.
- Advanced injury as a sment, First Aid & Life Support.
- Patient Trapeo

Done by Te ...

- Comrado, Maria Assessment, Search & Rescue, Medical, Transport.
- 2 to 8 ursper Team on Saturdays/Sundays.

www.HilltopHERO.org