MEDICAL PLANNING FOR CATASTROPHIC DISASTERS IN OREGON 2023 UPDATE

Jon Jui MD, MPH

QUESTIONS

 Does Oregon have a medical plan for a catastrophic disaster?

• If, so what is the plan?

How can I assist and be better prepared?

OBJECTIVES

- Oregon's State Medical Response to a Catastrophic disaster
 - Authority
 - Framework
 - Challenges
 - Current status
 - Cascadia Subduction Zone Earthquake
 - Wildland Fires
 - Current vulnerabilities

WHO IS INVOLVED IN A MEDICAL RESPONSE TO A DISASTER IN OREGON?

FRAMEWORK OF US DISASTER RESPONSE

	Local	State	Regional	Federal
Providers	All Health providers (e.g., first responders, hospital, clinic, SNF and other health care facilities), NGOs	OHA (SERV-OR, ODMT) OR National Guard	EMAC – individual state	HHS DoD
Liability	Local Agencies	State	Individual state	Federal government
Assets	Hospitals, clinics, public health, SNF, supporting agencies (e.g. dialysis)	All state assets ESF 6, ESF 8, ESF 18	Various State Assets EMACS	DMAT, Commission Corps (USPHS), National Veterinary Corps, DoD (military)
Preparedness Level	Varies with counties / region	Moderate	Untested (Varies)	Moderate to High

LOCAL AND REGIONAL MEDICAL EMERGENCY PREPAREDNESS

CITY OF PORTLAND

NEIGHBORHOOD EMERGENCY TEAM

Volunteer to be a Neighborhood Emergency Team (NET) Member

Service

Anyone who lives or works in Portland is invited to take NET training for free. Over 3,500 volunteers have completed basic training. Join them today, with the four steps below!



A few minutes for the application form, and approximately 28 hours for Basic NET Training.

Online

NET Volunteer application [2]

Contact

NET Coordinator Emergency Management

☑ NET@portlandoregon.gov

Follow on Social Media

n Nextdoor

Related

Volunteer to Staff a BEECN

Resources for NET Volunteers

NET Amateur Radio Resources

Topics

Fire and life safety

STATE MEDICAL EMERGENCY PREPAREDNESS



Oregon Emergency Support Functions (ESFs)



ESF 1 Transportation



ESF 2 Communications



ESF 3 Public Works



ESF 4 Firefighting



ESF 5 Information and Planning



ESF 6 Mass Care



ESF 7 Resource Support



ESF 8 Health and Medical



ESF 9 Search and Rescue



ESF 10 Hazardous Materials



ESF 11
Agriculture, Animals, and Natural Resources



ESF 12 Energy



ESF 13 Law Enforcement



ESF 14 Business and Industry



ESF 15 Public Information



ESF 16 Volunteers and Donations



ESF 17 Cyber and Critical Infrastructure Security

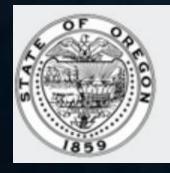


ESF 18 Military Support

OREGON HEALTH AUTHORITY CIVILIAN RESPONSE







SERV-OR

State Emergency Registry of Volunteers in Oregon

SERV OR COMPONENTS

- Volunteer Management Unit (VMU)
- State Managed Volunteer Pool
- •Medical Reserve Corps

SERV OR PROVIDERS

- physicians,
- Mid-levels
- Nurses,
- Pharmacists
- Respiratory Therapists
- Emergency Medical Technicians (EMTs),
- behavioral health providers, and others

Individual MRCs may make the determination to recruit non-licensed health care personnel and non-health care members.

MRC	Coordinator	Email	Phone
Cannon Beach	Lila Wickham	lilawickhamrn@gmail.com	503-436-8052
Clackamas County	Kirsten Ingersoll	kingersoll@co.clackamas.or.us	503-742-5954
Columbia County	Mike Paul	Michael.paul@columbiacountyor.gov	503-397-7247
Coos County	Cynthia Rodriguez	Cynthia.Rodriguez@chw.coos.or.us	541-266-6809
Eastern Oregon	Joe Johnson	jjohnson@bakercounty.org	541-566-0214
Linn County	Erik Anderson	eanderson@co.linn.or.us	541-967-3888
Lincoln County	Samantha Buckley	sbuckley@co.lincoln.or.us	541-265-0657
Marion County	Chris Henshaw	chenshaw@co.marion.or.us	503-365-3181
Multnomah County	Chris Wirth	chris.m.wirth@multco.us	971-271-2729
Nehalem Bay	Velda Handler	<u>VeldaRN@gmail.com</u>	740-336-2840
Wasco County	Tanya Wray	tanyaw@co.wasco.or.us	541-506-2631
Washington County	Abby Morris	abby.morris@co.washington.or.us	503-846-8292
Yamhill County	Gene Biggs	biggsge@co.yamhill.or.us	503-434-6309

COALITION OF MEDICAL RESPONDERS

- Civilian Responders
 - First Responders (Fire / EMS / Law Enforcement)
 - Hospitals
 - Clinics
 - Skilled Nursing Facilities
- Military Responders
 - Oregon National Guard
 - 142nd
 - 173
 - MedCOM (Army)
 - 141st Brigade Support Battalion (Company C)
 - 641st Medical Battalian
 - US Coast Guard
 - Active Military
 - 304th Aero rescue
 - 125 Special Tactics Unit

MILITARY PARTNERS









STATE MILITARY HOMELAND RESPONSE FORCE



Homeland Response Force

HOMELAND RESPONSE TEAM COMPONENTS

- 10th Civil Support Team (10th CST)
- CBRNE Enhanced Response Force Package (CERFP)
- Joint Incident Site Communications Capability (JISCC)
- CBRNE Assistance Support Element (CASE)
- HRF Command and Control element (C2)

CERFP

- Designed to deploy within6 hours
- Search and Extraction
- Mass Casualty DECON
- Medical Triage Treatment
- Fatality Search and Recovery.



OREGON AEROMEDICAL MILITARY ASSETS



1-189th Aviation Regiment OANG



1-168th Aviation Regiment OANG

US COAST GUARD







OREGON DISASTER MEDICAL TEAM

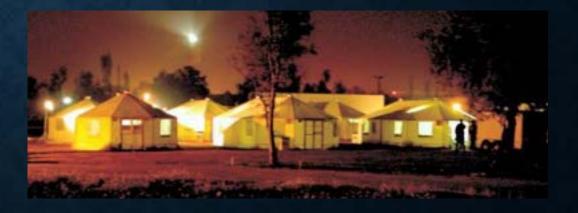
OREGON STATE MEDICAL RESPONSE



- Agreement with Oregon Health Authority
 (Oregon Public Health Division OPHD)
 - Operate as volunteers (SERV/OR)

ODMT TEAM CAPABILITIES

- Set up and staff civilian field hospitals
- Supplement personnel in existing hospitals
- Triage and treatment
- Mass vaccination, mass prophylaxis



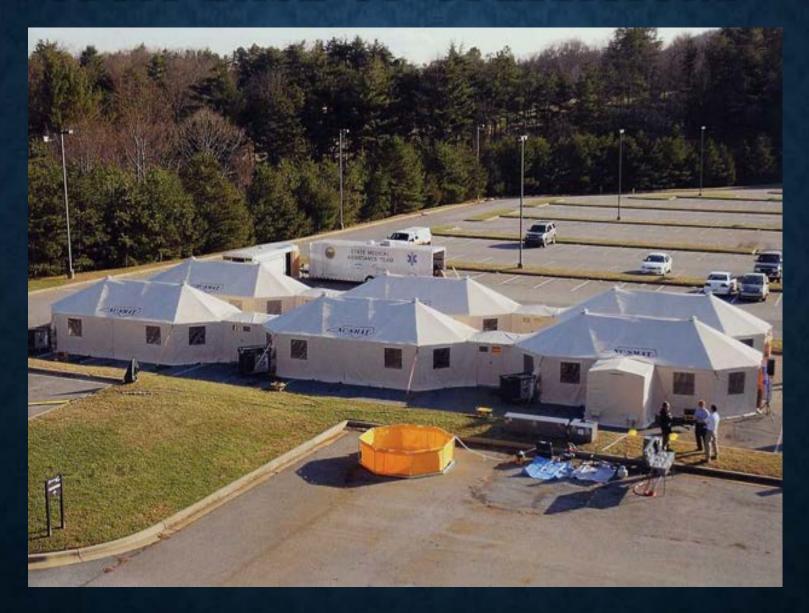
ODMT DISASTER TRAILERS



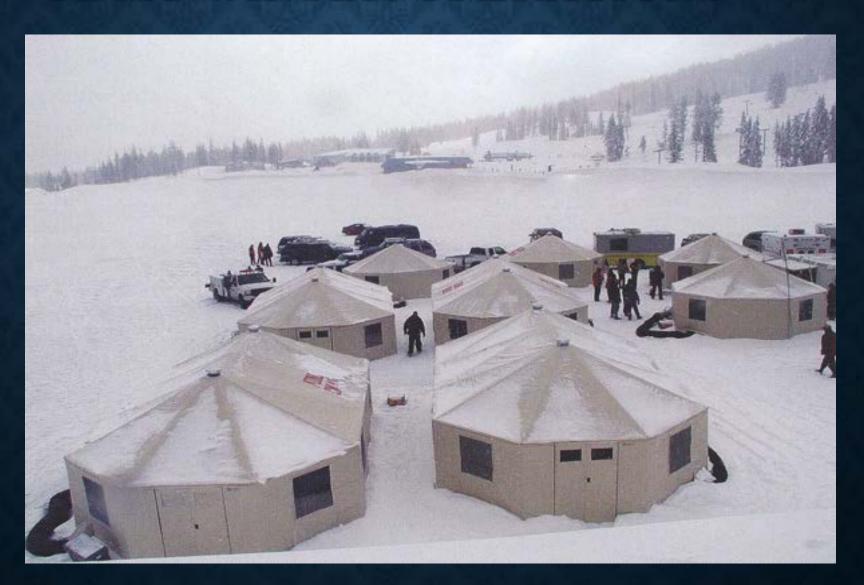
ODMT DISASTER TRAILER CONTENTS



ODMT BASE OF OPERATIONS



ODMT WINTER OPERATIONS



CIVILIAN RESPONSE INTEGRATION WITH MILITARY RESPONSE







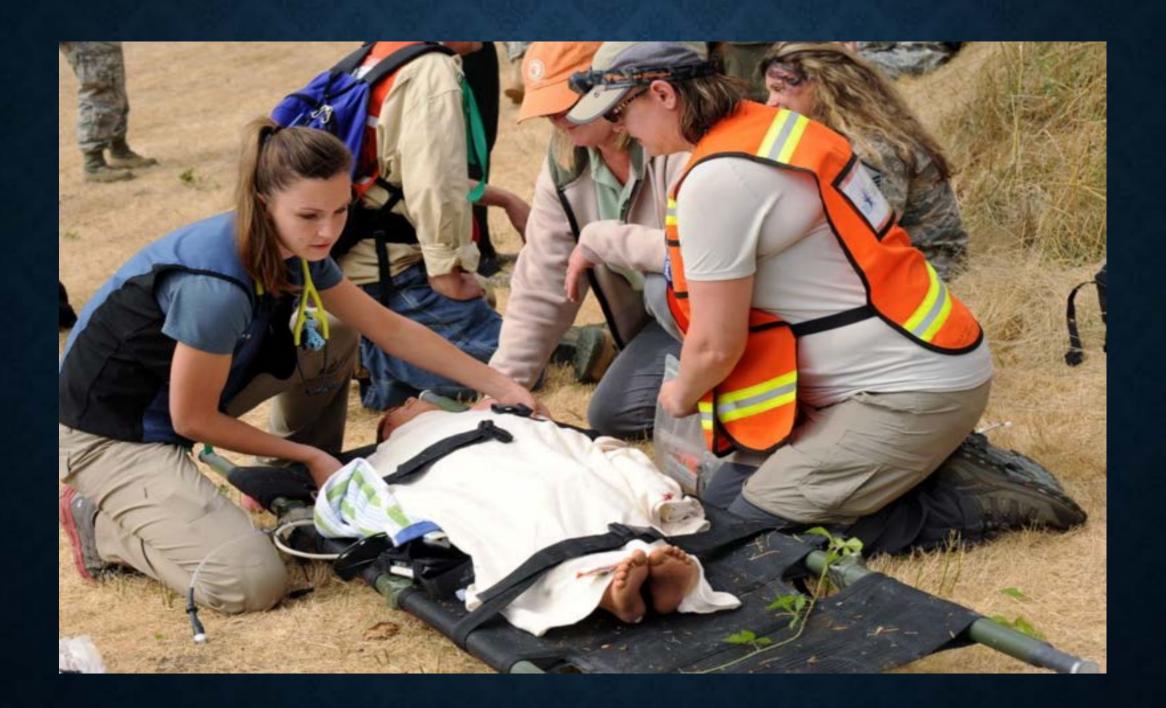












THE OREGON MEDICAL RESPONSE

State of Oregon ESF-8 Health and Medical

Pre-scripted Missions

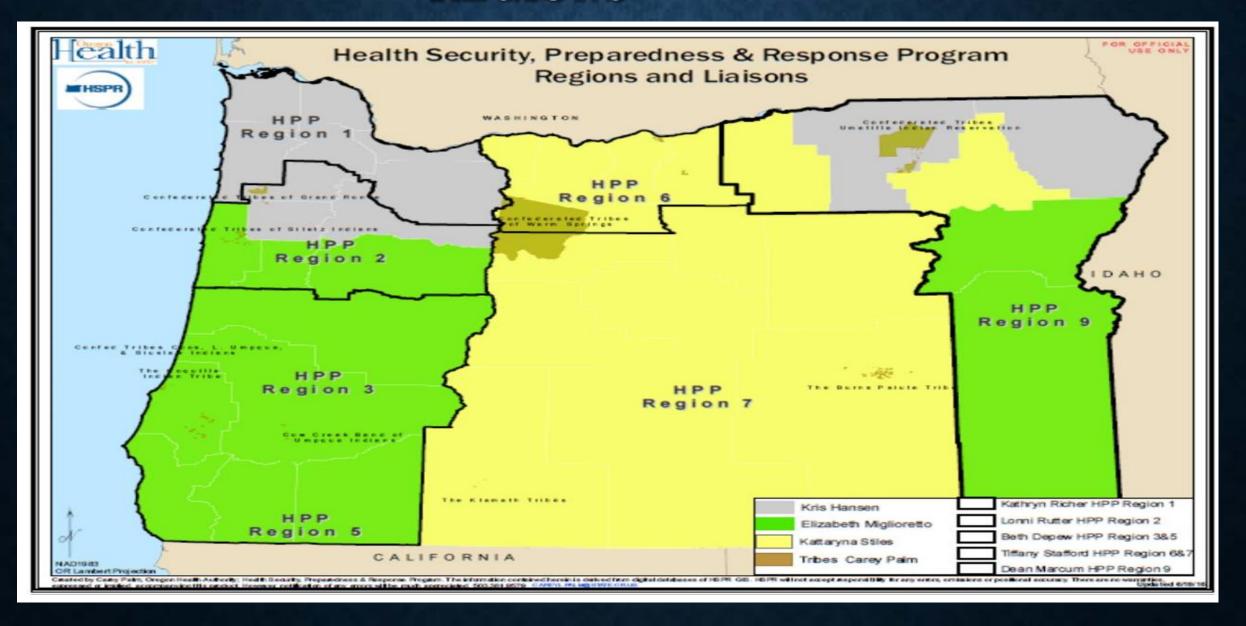
Based upon potential response needs in incidents the pre-scripted missions outline potential resources that could be requested or missions that are needed in a response. Financial estimates will need finalization prior to authorization during an incident and these numbers are an estimate of cost. This is a working document and will be updated by the Health Security, Preparedness, and Response All-Hazard Planning Team every three months.

November, 2015

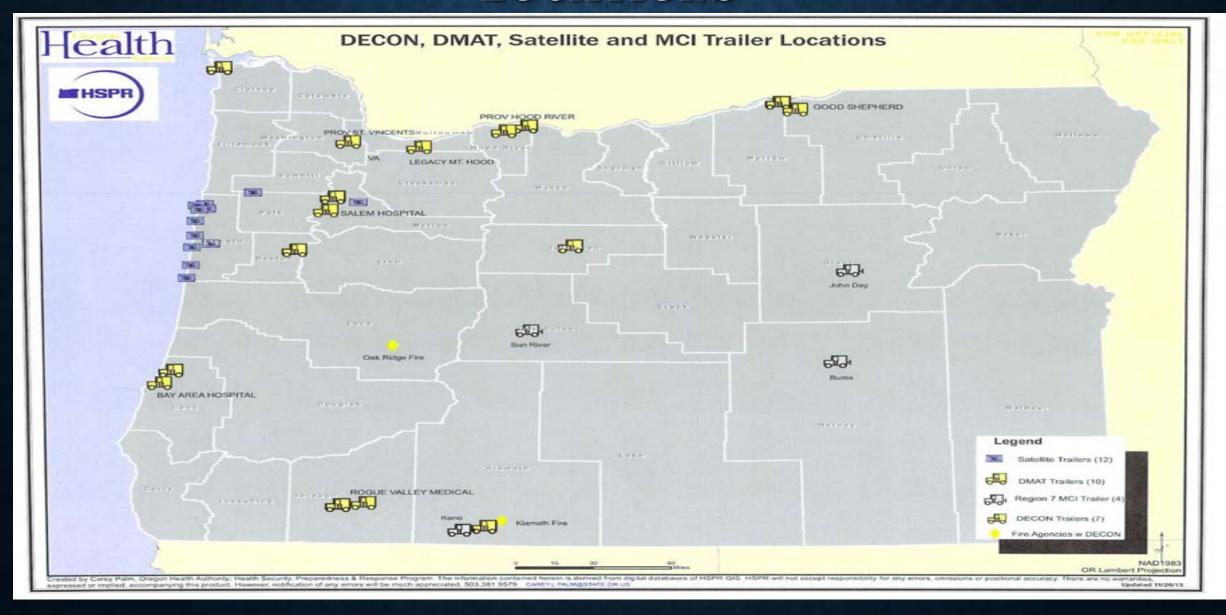




STATE OF OREGON PREPAREDNESS REGIONS



OHA: OREGON DMAT, DECON, MCI, SATELLITE LOCATIONS



OHA: PRE SCRIPTED MISSIONS

PLAY: 4-8-1		27			
TASKING: DEPLOY MEDCOM MEMBERS TO WORK AS OVERHEAD TEAMS AT OREGON MEDICAL STATION27					
	MEDCOM				
	VE MCM TO RSS SITES				
	DOT TRUCKS TO MOVE MCM SUPPLIES				
PLAY: 6-8-1		29			
	DEPLOY ADVANCED LOGISTICS TEAM				
RESOURCE:	ADVANCED LOGISTICS TEAM	29			
PLAY: 6-8-2		31			
PLAY: 6-8-2 TASKING: DEPLOY MRRT MEMBERS TO WORK AS OVERHEAD TEAMS AT FEDERAL MEDICAL STATIONS					
	MEDICAL RAPID RESPONSE TEAM				
PLAY: 7-8-1		32			
TASKING: RES	TORE IT SYSTEMS IN PSOB AND ALTERNATE AOC'S	32			
RESOURCE:	COMMUNICATIONS REPAIR PERSONNEL	32			
PLAY: 8-8-1		33			
TASKING: REC	QUEST FEMA ASSISTANCE FOR 10 DMAT'S	33			
RESOURCE:	FEDERAL DISASTER MEDICAL ASSISTANCE TEAMS	33			



/ Oregon ORS / Volume 10 / Title 32 / Chapter 402 / Section 402.250

Compact

402,200

Legislative findings

402,205

Definitions for ORS 402

402,210

Oregon Resource Coordination Assistance Agreement

402.215

Request for assistance

Emergency Mutual Assistance Agreements

ORS 402.250 Pacific Northwest Emergency Management Arrangement

TEXT

ANNOTATIONS

The Governor shall participate on behalf of the State of Oregon with other governments legally joining in the compact in forms substantially as follows:

(1)

Source ►

Last accessed

Mar. 11, 2023

REMOVE ADS

GREATEST DISASTER THREATS TO OREGON

WORST CASE SCENARIOS FOR OREGON?

Cascadia Subduction Zone Earthquake



Devastating Wildland Fire



WORSE CASE SCENARIOS CASCADIA SUBDUCTION EARTHQUAKE





WILDLAND FIRE PARADISE CALIFORNIA 2018





CASCADIA SUBDUCTION EARTHQUAKE IMPACT ON OREGON COAST

CSZ: SEVERITY OF QUAKE INTENSITY BY REGION

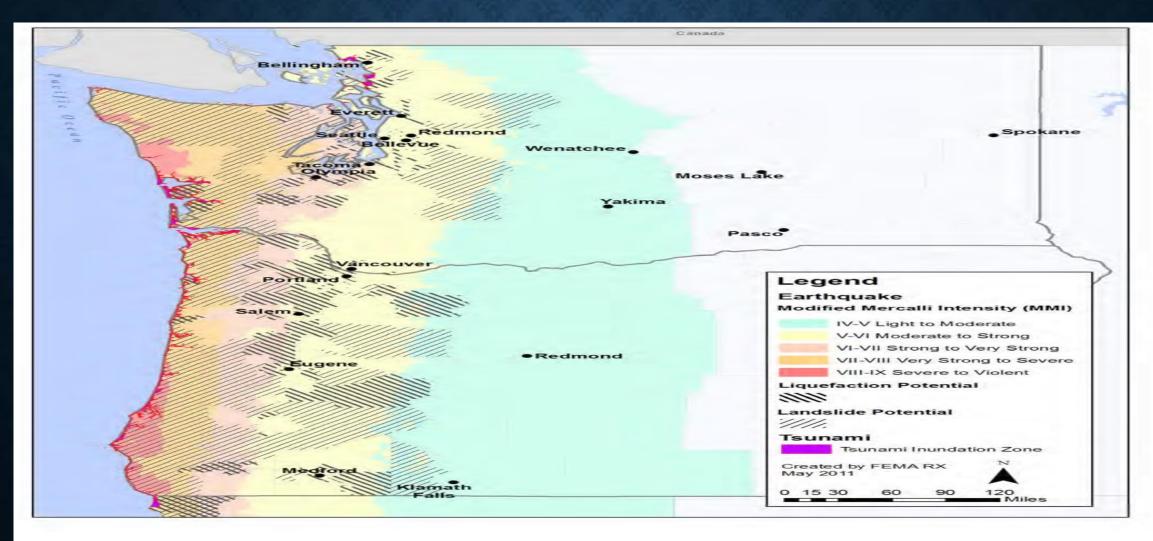


Figure 12: Areas affected by ground shaking, liquefaction, landslide and tsunami inundation

TSUNAMI INUNDATION ZONE: POPULATIONS AT RISK

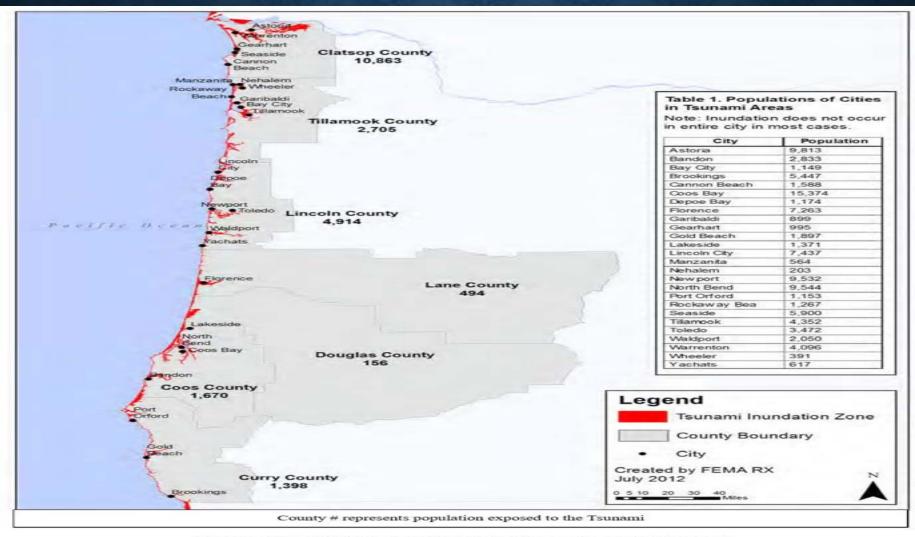
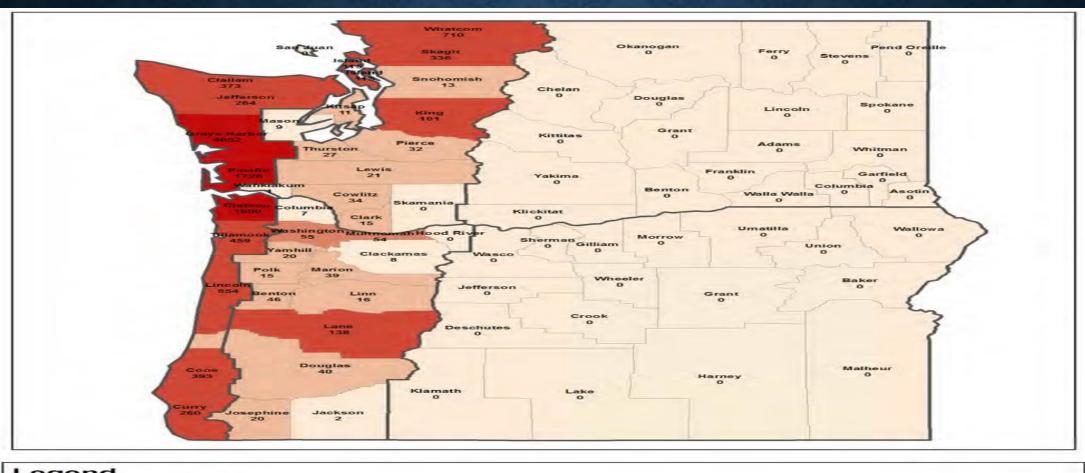


Figure 6: CSZ tsunami inundation areas in Oregon

ESTIMATED POPULATION IMPACTS TO OREGON AND WASHINGTON

- Initial earthquake results in 23,000 injuries and 1,100 fatalities.
- Most earthquake-related casualties are in the Seattle and Portland metropolitan areas.
- Tsunamis can cause an additional 4,500 injuries and
 13,500 fatalities.

CSZ EARTHQUAKE: DEATHS BY COUNTY



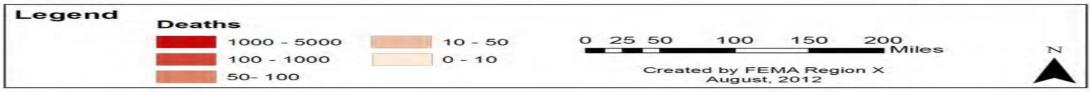


Figure 13: Deaths per county

CSZ EARTHQUAKE: INJURIES BY COUNTY

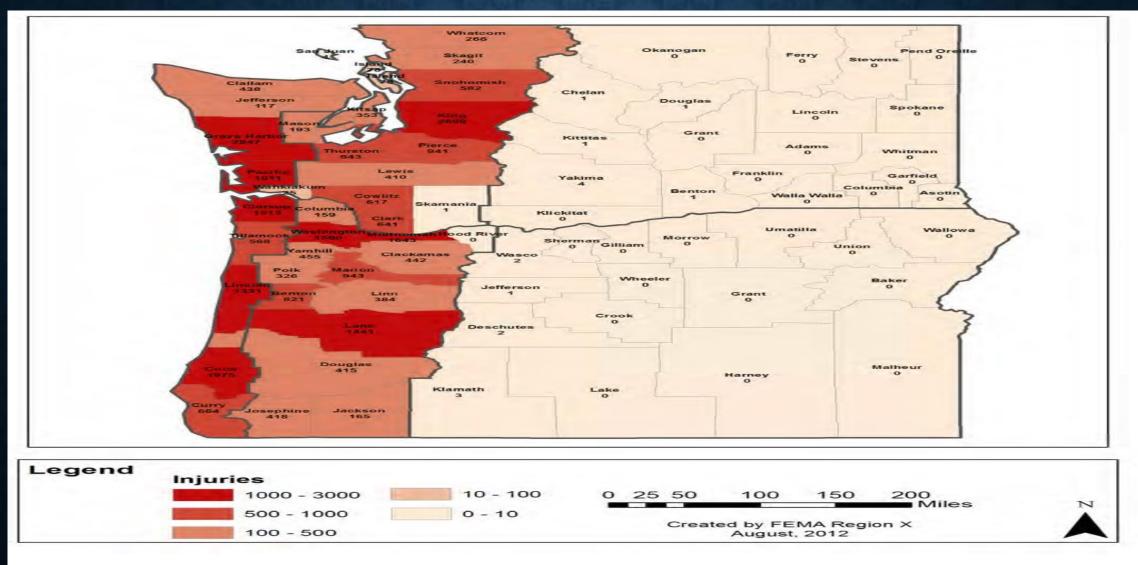


Figure 14: Injuries by county

CSZ EARTHQUAKE: COMMUNICATIONS ELECTRICAL AND WATER INFRASTRUCTURE

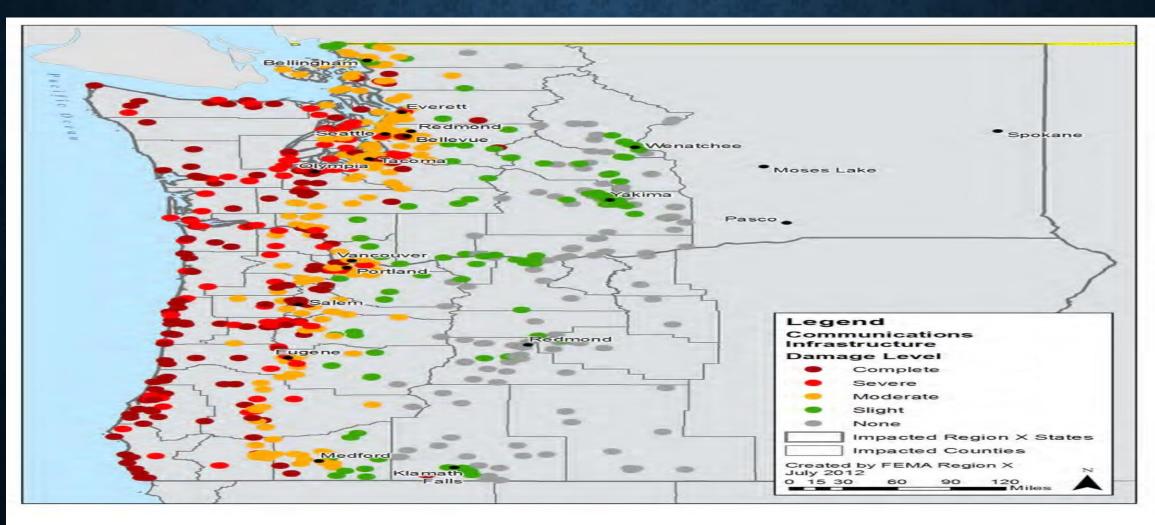


Figure 13: Extent of damage to communication infrastructure caused by earthquake

CSZ EARTHQUAKE: DAMAGE TO AIRPORTS

Table 4-3 Western Oregon Airport Damages from Cascadia event

	Table 4-3 Western	Oregon An port	Damages Hom	Cascadia CV	ent
Airport Name	City	Latitude	Longitude	50% damage model	90% damage model
INDEPENDENCE STATE	INDEPENDENCE	44.8669529	-123.1982329	Slight	Complete
SILETZ BAY STATE	GLENEDEN BEACH	44.87691688	-124.0285049	Complete	Complete
SOUTHWEST OREGON REGIONAL	NORTH BEND	43.41709754	-124.2460052	Complete	Complete
BANDON STATE	BANDON	43.08645591	-124.4078497	Complete	Complete
MCNARY FIELD	SALEM	44.90952233	-123.0024857	Slight	Moderate
PORTLAND- HILLSBORO	PORTLAND	45.54060562	-122.95018	Slight	Moderate
ALBANY MUNICIPAL	ALBANY	44.63780013	-123.0594301	Slight	Severe
MAHLON SWEET FIELD	EUGENE	44.12457795	-123.211958	Slight	Moderate
HOBBY FIELD	CRESWELL	43.93076128	-123.0072641	Slight	Moderate
COTTAGE GROVE STATE	COTTAGE GROVE	43.7998399	-123.0289536	Slight	Moderate
GRANTS PASS	GRANTS PASS	42.51011196	-123.3879755	Slight	Severe
ILLINOIS VALLEY	CAVE JUNCTION	42.10359479	-123.6824027	Moderate	Complete
ROGUE VALLEY INT MEDFORD	MEDFORD	42.37421692	-122.8734861	Slight	Moderate
ROSEBURG REGIONAL	ROSEBURG	43.23877774	-123.3558476	Slight	Moderate

CSZ EARTHQUAKE: DAMAGE TO AIRPORTS

SCAPPOOSE INDUSTRIAL AIRPARK	SCAPPOOSE	45.77102226	-122.8618188	Slight	Moderate
MC MINNVILLE MUNICIPAL	MC MINNVILLE	45.19443899	-123.13593	Slight	Complete
TILLAMOOK	TILLAMOOK	45.41823655	-123.8143693	Complete	Complete
CORVALLIS MUNICIPAL	CORVALLIS	44.49718821	-123.2898154	Slight	Severe
FLORENCE MUNICIPAL	FLORENCE	43.98281138	-124.1113551	Complete	Complete
NEWPORT MUNICIPAL	NEWPORT	44.58035578	-124.0579022	Severe	Complete
ASHLAND MUNICIPAL- SUMNER PARKER FIELD	ASHLAND	42.1902783	-122.6606145	Slight	Slight
PORTLAND- MULINO	PORTLAND- MULINO	45.21631949	-122.5900695	Slight	Severe
LENHARDT AIRPARK	HUBBARD	45.18039284	-122.7434106	Slight	Complete
AURORA STATE	AURORA	45.24713339	-122.7700412	Slight	Complete
PORTLAND INT.	PORTLAND	45.58871669	-122.5974856	Slight	Severe
PEARSON FIELD	VANCOUVER	45.62044697	-122.6564739	Slight	Severe
PORTLAND- TROUTDALE	PORTLAND	45.54935556	-122.4012356	Slight	Severe

OREGON DISASTER PLANNING UPDATE

State of Oregon

Cascadia Subduction Zone Catastrophic Earthquake and Tsunami Operations Plan

Component One of the Oregon Cascadia Subduction Zone Earthquake and Tsunami Operations Plan



Publication Date: September 2012



Oregon Military Department, Office of Emergency Management 3225 State Street Salem, Oregon 97301 503-378-2911

OREGON LIFE LINE MAP: OREGON



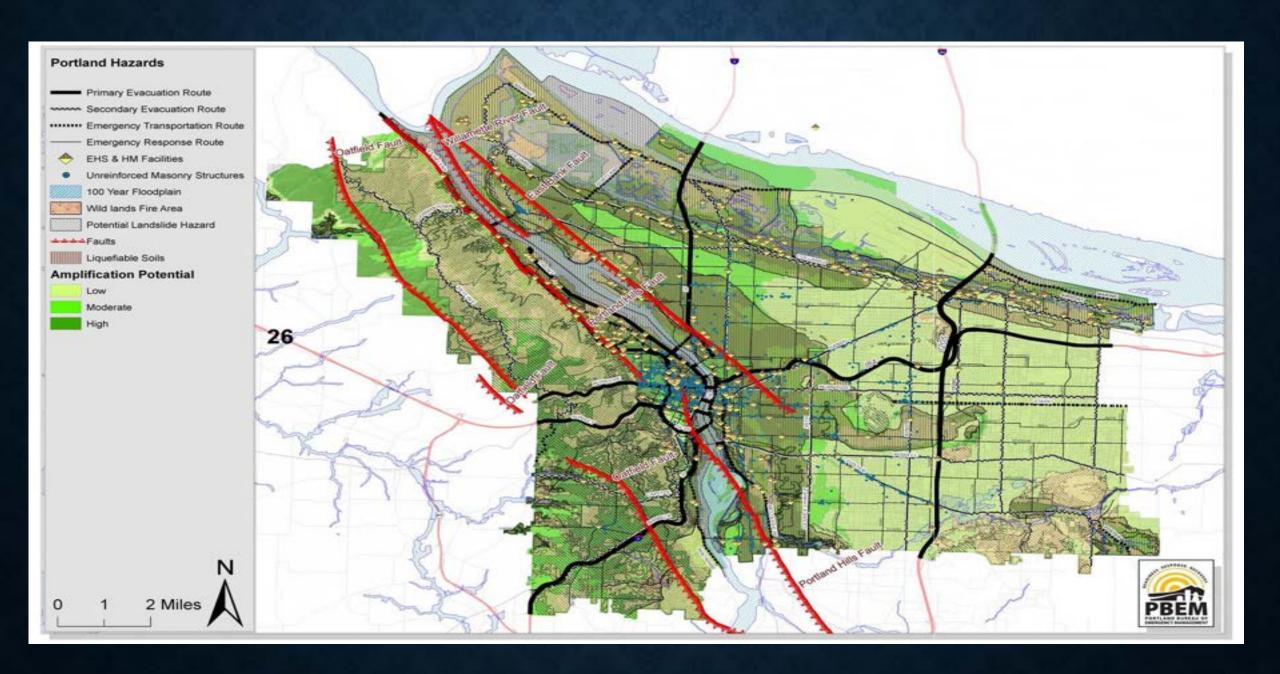
OREGON COASTAL BRIDGES SEISMIC VULNERABILITY



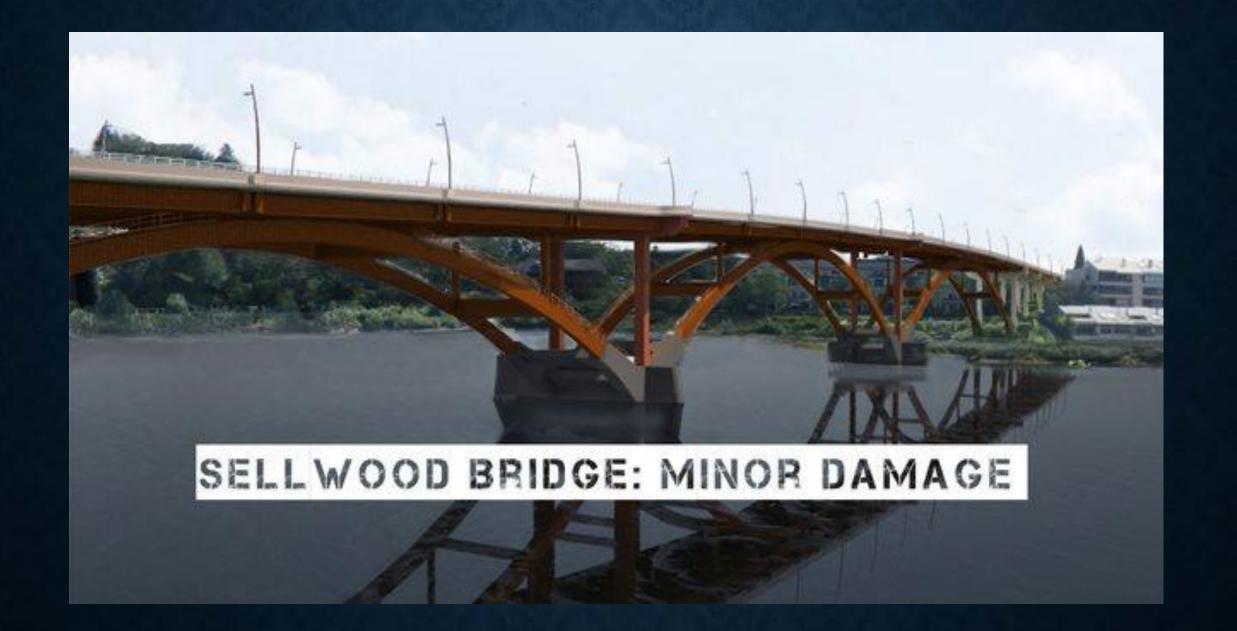
CASCADIA SUBDUCTION EARTHQUAKE IMPACT ON PORTLAND

MYTH:

PORTLAND WILL BE DESTROYED IN A CSZ EARTHQUAKE

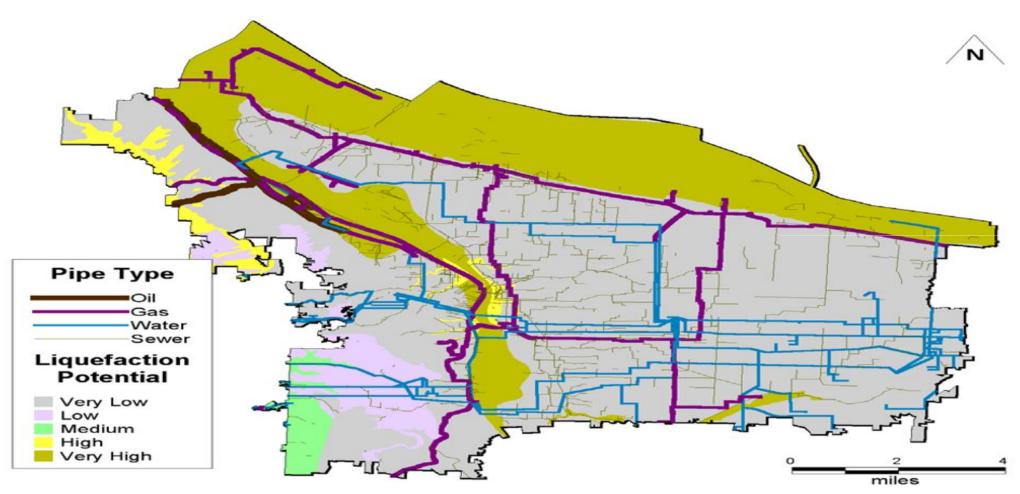




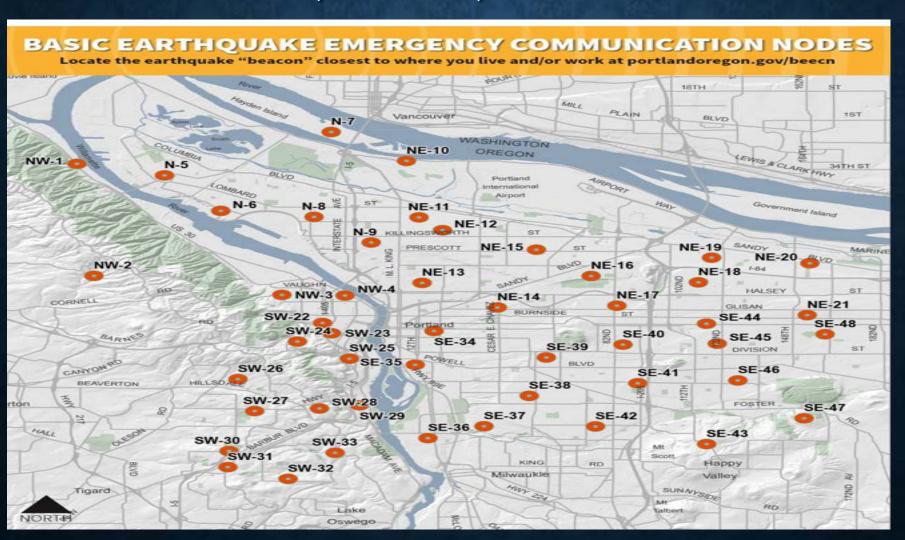


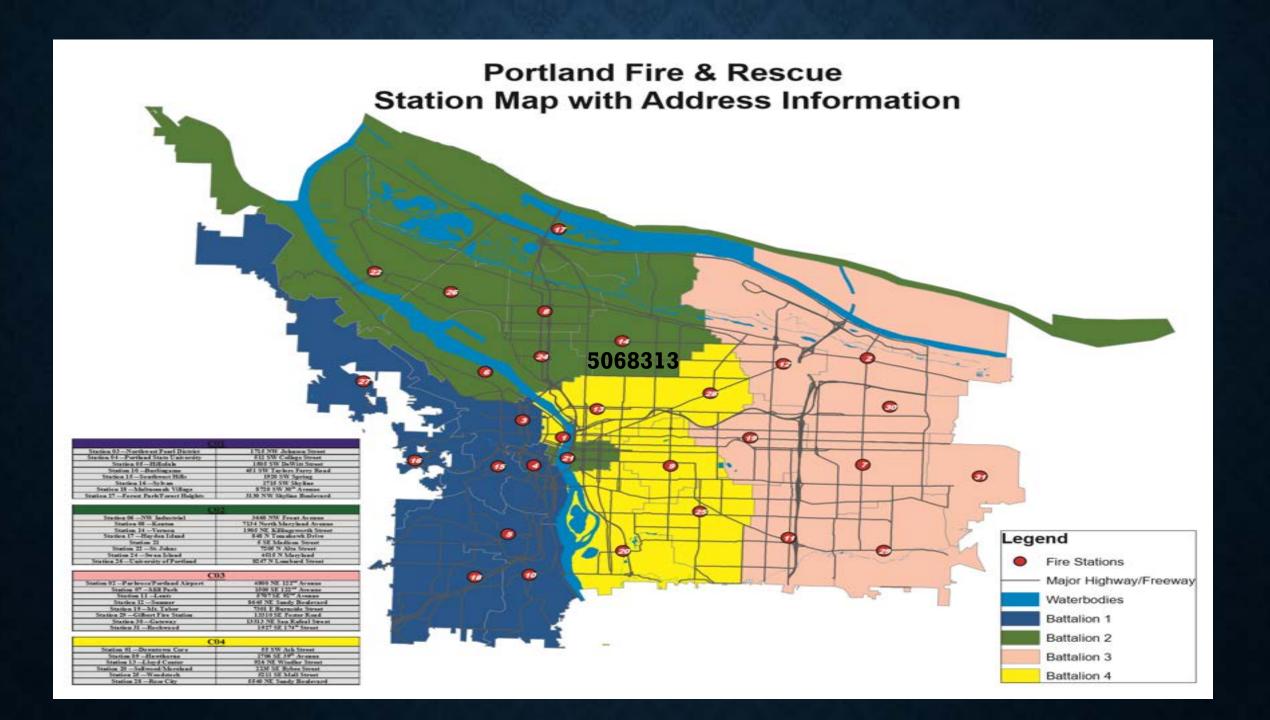
UTILITY LIFELINES VS EARTHQUAKE HAZARD

Figure II-4 Distribution of Utility Lifelines in Relation to Earthquake Hazard

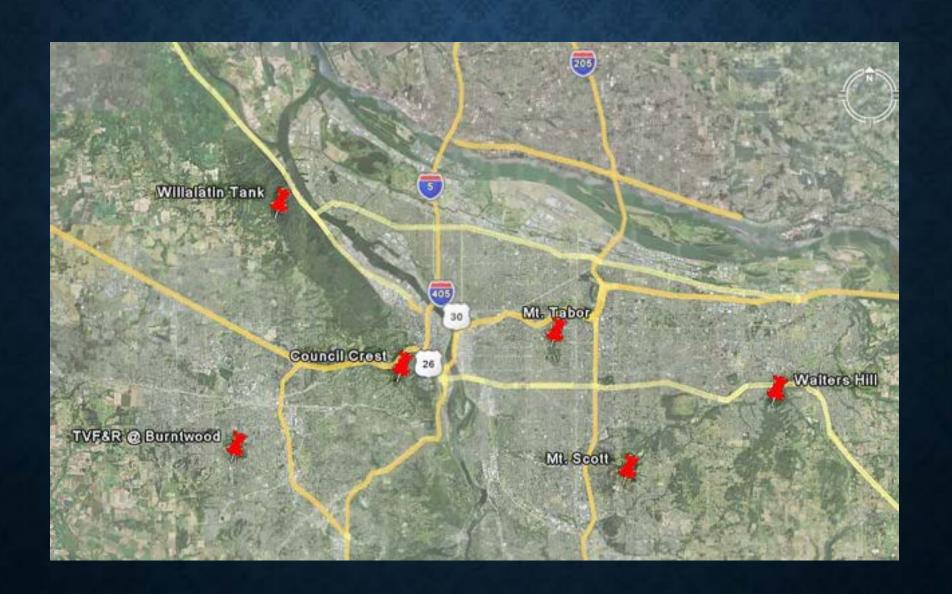


CSZ EARTHQUAKE: PORTLAND BASIC EARTHQUAKE COMMUNICATION NODES (BEECN)





FIRE UASI VHF REPEATER

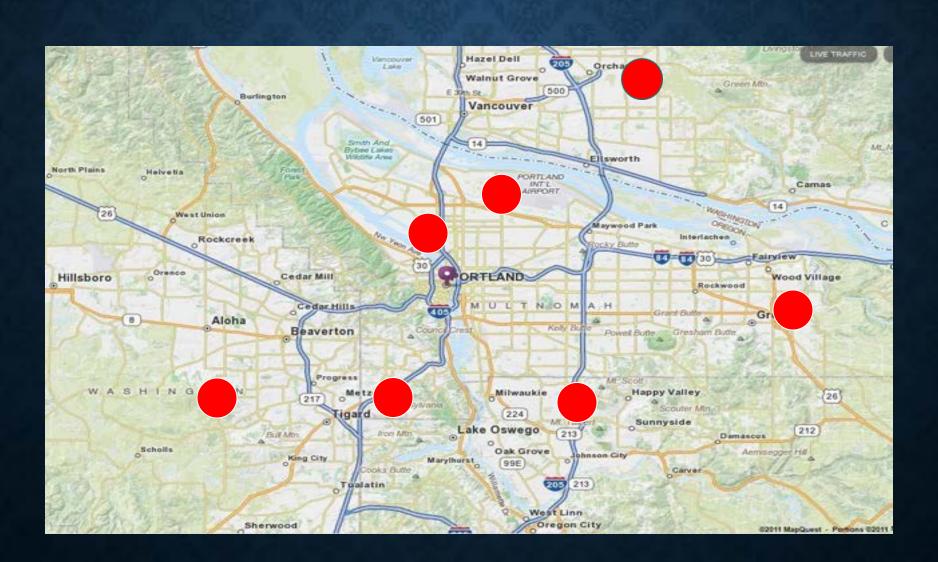


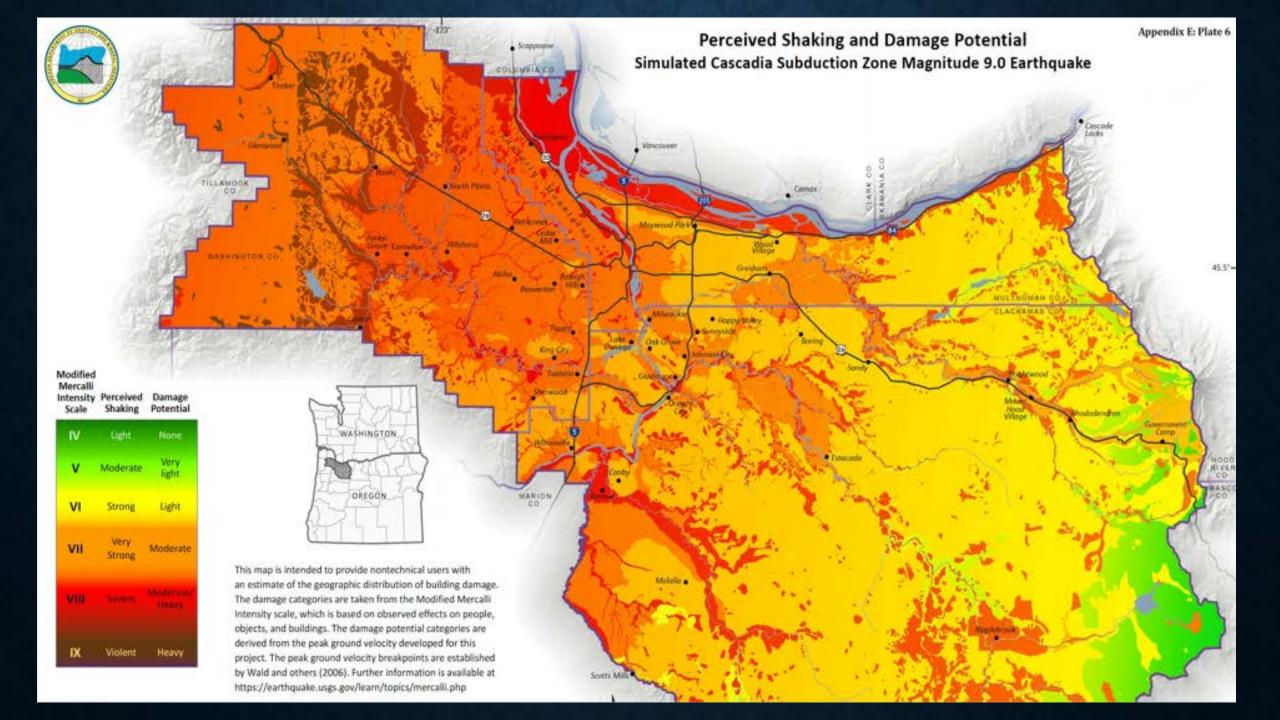
UASI CBRNE MCI SUPPORT

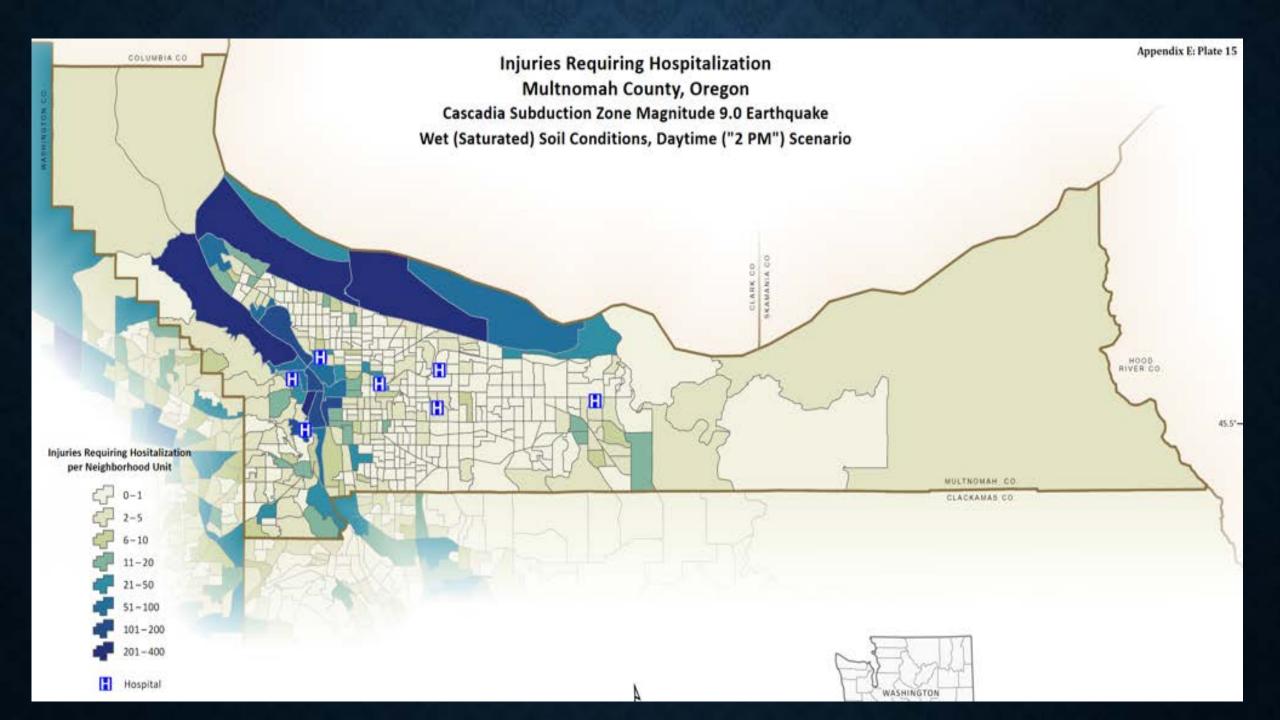
- 6 MCI units deployed throughout the region
 - Multnomah 4
 - Washington 1
 - Clackamas 1
- Each capable of managing 100 patients,
 - 10% critical
 - 20% serious
 - 70% ambulatory

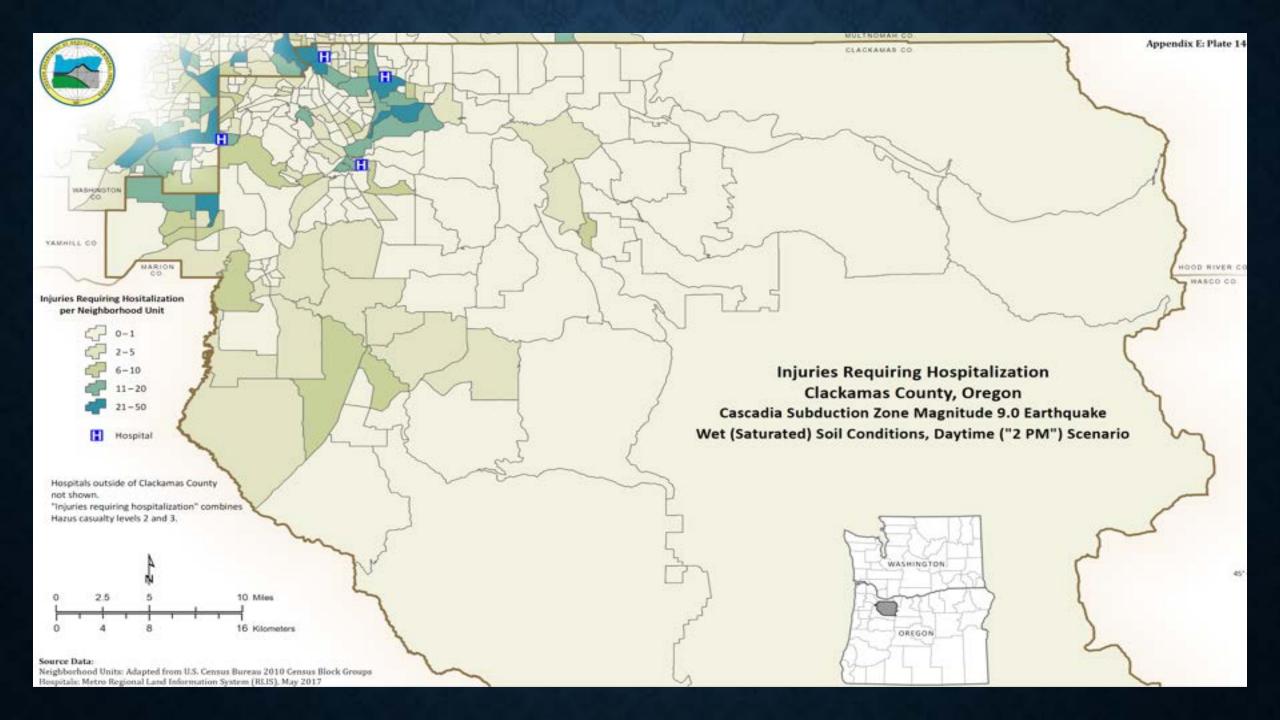


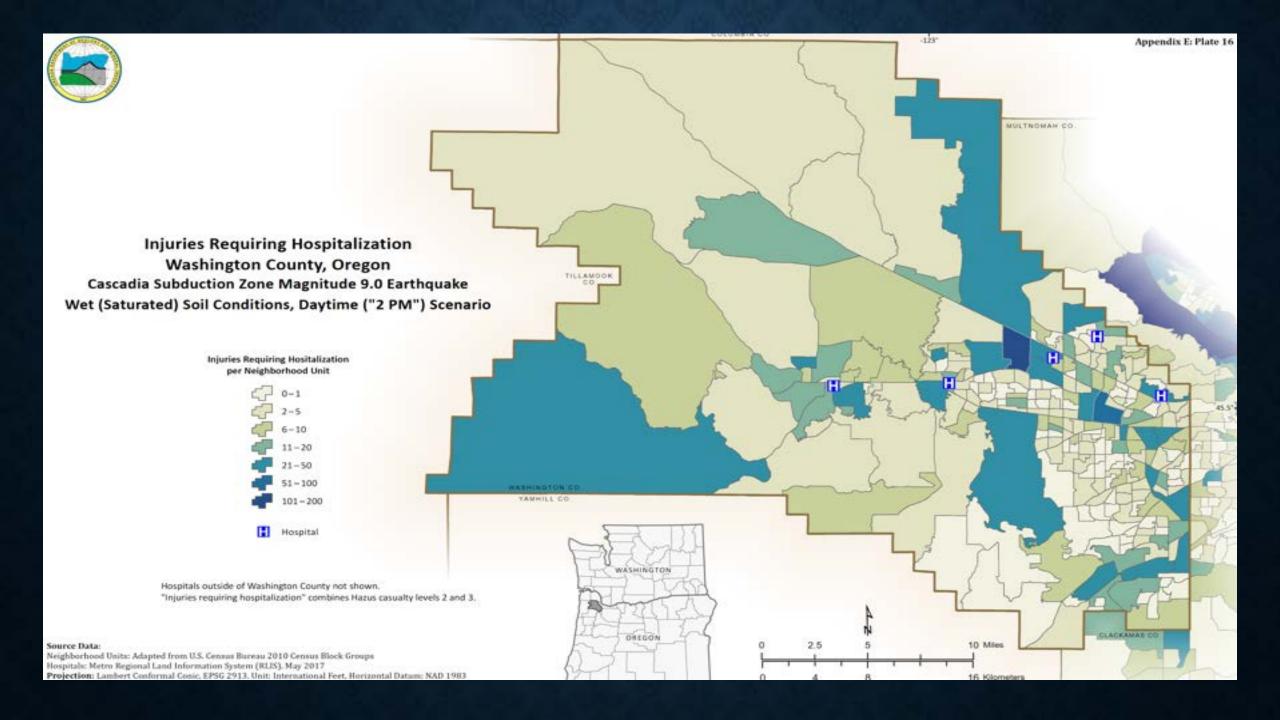
PORTLAND AREA UASI CBRNE MCI UNITS







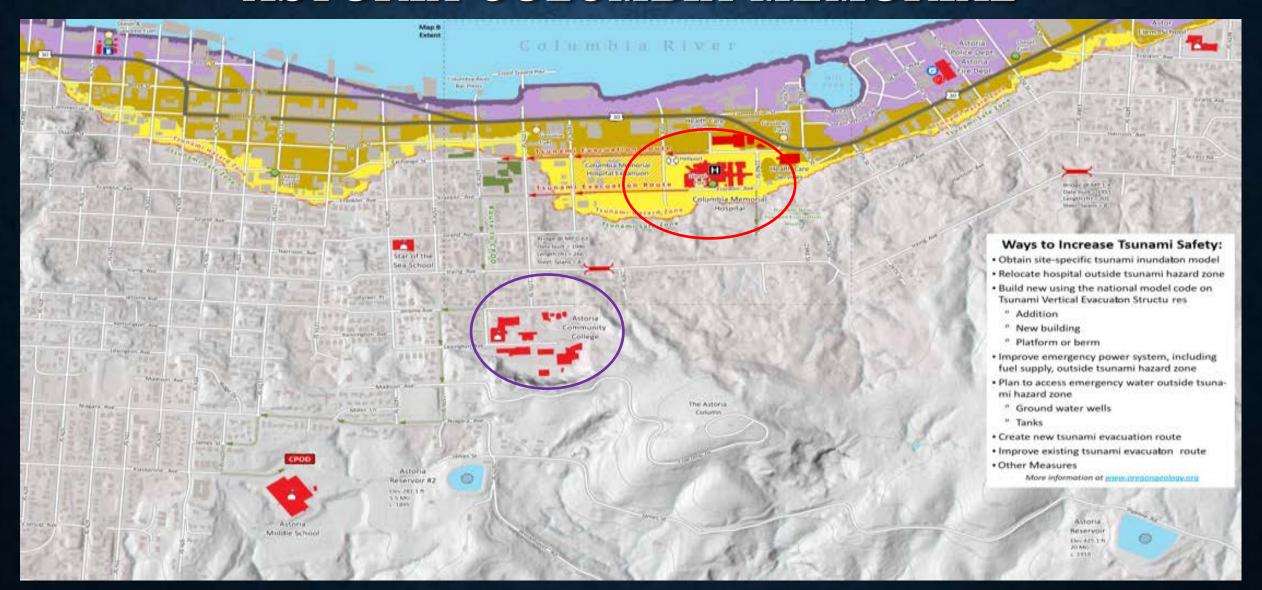




OREGON COASTAL HOSPITALS

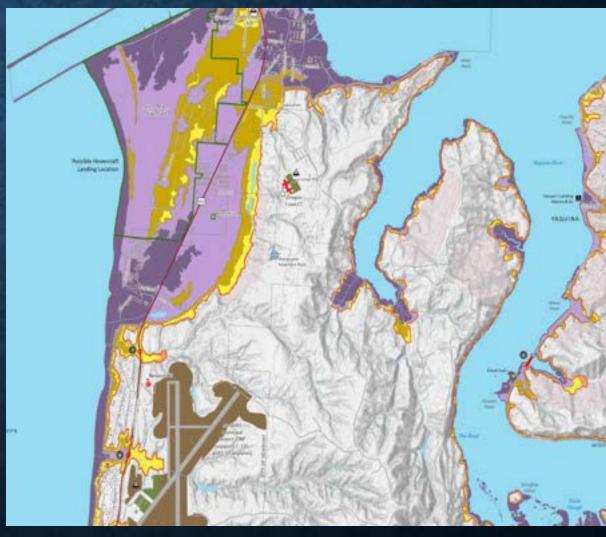
MYTHS COASTAL HOSPITALS WILL BE DESTROYED IN CSZ EARTHQUAKE

DOGAMI MAPS: COASTAL HOSPITALS ASTORIA COLUMBIA MEMORIAL

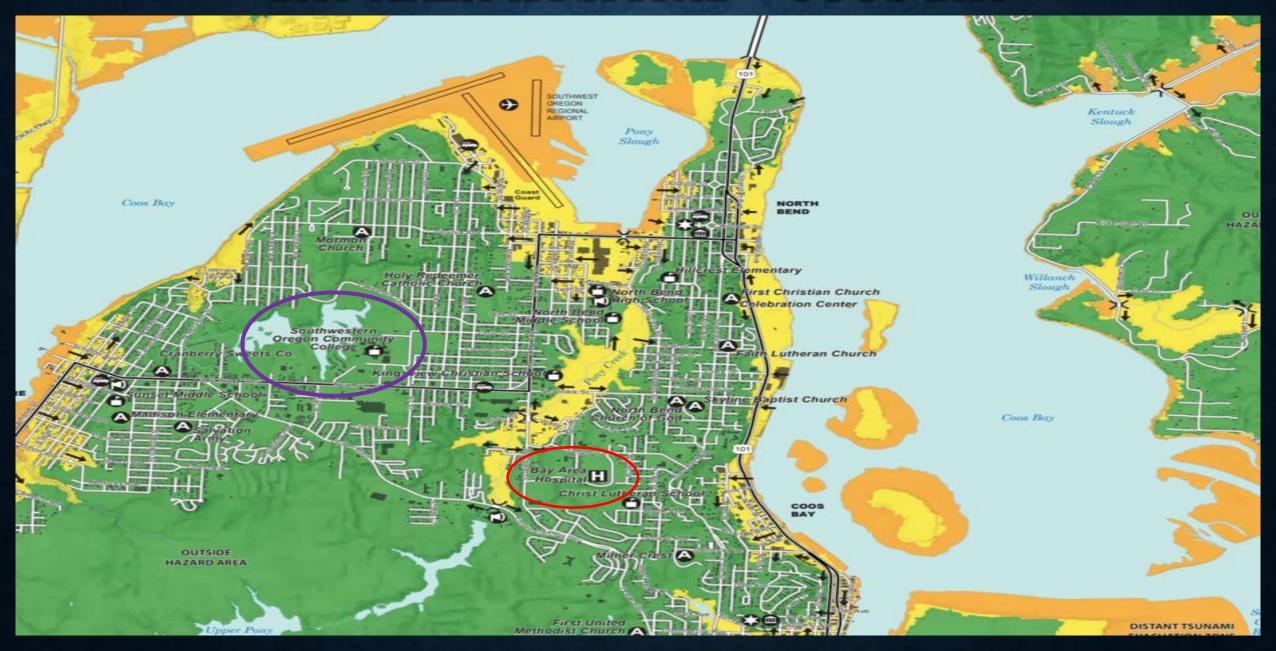


DOGAMI MAPS: COASTAL HOSPITALS NEWPORT SAMARITAN PACIFIC COAST HOSPITAL





BAY AREA HOSPITAL - COOS BAY



SAMARITAN PACIFIC COMMUNITIES HOSPITAL

"Best Prepared Oregon Coastal Hospital" IMHO





THE FEDERAL RESPONSE TO CATASTROPHIC DISASTERS IN OREGON

NATIONAL DISASTER MEDICAL SYSTEM



Disaster Medical Assistance Teams



Trauma & Critical Care Teams



Disaster Mortuary Operational Response Teams



Victim Information Center Team



National Veterinary Response Team



Join NDMS

Drafft

FEMA Concept of Operations

Ground Movement

Maritime Movement

Green, amber and red

indicate 1st, 2nd and 3rd

step in deploying resources or

establishing capability

Air Movement

In WASH, DC fe-sustaining/Recovery FEMA HQ -

FEMA Region X Concept of Operations: Deploy and employ resources and capabilities to support lifesaving operations to the impacted area throughout the Coastal and I-5 Corridor GRAs in order to support state and local lifesaving operations based on pre-identified resource requirements. Simultaneously deploy life-sustaining/ restoration capabilities and all other resources to one or more ISBs in the East of the Cascades GRA in order to conduct RSOI, provide just-in-time training and build capability to provide stability based on state identified priorities and situational awareness.

FEMA Region IX Concept of Operations:

FEMA Region IX's RRCC activates and collects situational assessment data from the state, activating appropriate ESFs and federal agency resources. A FEMA Incident Management Assistance Team(s) (IMAT) is deployed, along with logistical capabilities and initial response teams and resources, followed by more robust resources to conduct SAR, mass care and medical treatment. Incident Support Bases (ISBs) and FSAs are activated to support the local and state jurisdictions.



The response concept covers three Geographic Response Areas (GRA).

In each State: (Divided by Columbia River)

- Coastal
- I-5 Corridor
- East of the Cascades
- Each GRA generally follows county borders and/or mountain terrain features

US DOD NORTHERN COMMAND





This Playbook is classified UNCLASSIFIED

USNORTHCOM Playbook Cascadia Subduction Zone (CSZ) Catastrophic Earthquake & Tsunami Response

Pre-Decisional Working Draft (Version 18) as of 29 Apr 2016

Information and assumptions contained herein are based upon the FEMA Region X CSZ Catastrophic Earthquake & Tsunami Response Plan and the FEMA Region IX/Cal OES California CSZ Earthquake & Tsunami Response Plan

UNCLASSIFIED

UNCLASSIFIED



USNORTHCOM / DOD CSZ Concept of Operations (1 of 3)

FCO

Unified Coord, Group

(Olympia, WA)

Unified Coord, Group

(Salem, OR)

FCO

Unified Coord, Group

(Sacramento, CA)

FEMA

NC Coord

Element

Defense Support of Civil Authorities Homelands Partnerships

USNORTHCOM

& stabilize incident T10 Supported

JTF-SAR

USNORTHCOM:

Mission Essential Task (MET): Synchronize the DOD operational response in support of FEMA (Lead Federal Agency) Purpose (P): Save lives, minimize suffering,

Joint Task Force X (JTF-X): -(Supported Operational HQs)

MET: Provide C2 for assigned or attached T10 forces executing DSCA Response ISO the Lead Federal Agency throughout the affected area

P: Save lives, minimize suffering. & stabilize incident

JTF Search and Rescue (SAR):

MET: In coordination with JTF-X. conduct SAR and provide SAR capabilities in support of ESF 9 P: Save lives, minimize suffering. & stabilize incident

Defense Coordinating Officers (DCOs):

MET: Represent USNORTHCOM and DOD within each Unified Coordination Group (UCG) and, in coordination with the FCO, identify and validate DOD requirements

P: Facilitate rapid provision of Title 10 DOD capabilities

FEMA (IAW Region X Plan):

MET: Provide immediate federal support and resources to the impacted states P: Save and sustain life

USTRANSCOM:

MET: Support USNORTHCOM and FEMA with strategic air, land, and sea transportation movement

P: Provide the most optimal force flow to deliver capabilities efficiently into the Affected Area

Defense Logistics Agency (DLA):

MET: Provide commodities in support of USNORTHCOM and FEMA

P: Sustain life and support operations

US Army Corps of Engineers (USACE):

MET: As ESF 3 lead, provide support to infrastructure systems and support FEMA and USNORTHCOM's operations P: Re-establish operating infrastructure systems to save and sustain life

Services (Army, Navy, Air Force, Marines):

MET: Support USNORTHCOM through rapid sourcing and installation (BSI) support P: Facilitate USNORTHCOM DOD and FEMA operations

SOCNORTH

JFSOCC.





Theater Army (ARNORTH/JFLCC):

MET: Support JTF-X by opening APODs and BSIs in the Affected Area and coordinating logistics support for the Joint Force P: Ensure JTF-X has the capabilities, visibility, and support required for Joint Forces

Service and Functional Components:

MET: Support JTF-X

P: Ensure JTF-X has the capabilities, visibility, and support required for Joint Forces



Maritime Command Element:

MET: C2 Maritime Assets in Support of JTF-X P: Ensure JTF-X has the capabilities, visibility, and support required for Joint Maritime Forces

DOD Title 10 Units and Installations within Affected Area:

MET: Assess and report status, provide support as requested by civil authorities under Immediate Response Authority, and BPT provide capabilities in support of USNORTHCOM

P: Save lives, minimize suffering, stabilize incident, and facilitate provision of capabilities in support of the overall DOD effort



USNORTHCOM / DOD CSZ Concept of Operations (2 of 3) Scheme of Maneuver for Initial Response (Phase 2a)

Everett Pain Field, WA

FCO

Unified Coord, Group

(Olympia, WA)

FCO

Unified Coord, Group

(Salem, OR)

Kingsley Field Air

DCD

FCO

Unified Coord, Group

(Sacramento, CA)

Travis-

Bellingham, WA

(FEMA FSA)

(FEMA FSA)

Hympia, WA

Aberdeen, WA

*Astoria, OR

Blamook, OR

Coos Bay, OR

Newport, OR

FEMA

NC Coord

Grant International

Lake) WA

DCO

(FEMA ISB)

Airport (Moses

Defense Support of Civil Authorities

Homelands Partnerships



FEMA (IAW Region X Plan):

MET: Provide immediate federal support and resources to the impacted states

P: Save and sustain life

Fairchild

AFB, WA

ational Guard Base, OR



Defense CBRN Response Force (DCRF):

- Task: Deploy C2 (JTF-CS HQ, TF Ops HQ, TF Avn HQ, TF Med, & TF Log HQ) with major support units to JBLM and establish rotary wing operations to deploy and support Response Task Forces (RTFs) forward.
 Purpose: Save lives, minimize suffering, stabilize incident, and provide life sustaining support.
- Task: Deploy key elements of 3 RTFs each with US&R team, EMEDs, ASMC, FST, and key but limited C2 and support enablers to coastal centers of Port Angeles, WA; Aberdeen, WA; and Astoria, OR. <u>Purpose</u>: Save lives, minimize suffering, stabilize incident, and provide life sustaining support.

Command & Control CBRN Response Element A (C2CRE A):

 Task: Deploy key elements of 1 RTF with US&R team, ASMC, FST, and key but limited C2 and support enablers to coastal center of Coos Bay, OR.

<u>Purpose</u>: Save lives, minimize suffering, stabilize incident, and provide life sustaining support.

Theater Army (ARNORTH/JFLCC) and Supporting Service and Functional Components:

 <u>Task</u>: Rapidly open and establish fixed & rotary wing air operations and ground transportation operations, concurrently, but in the following order of priority:

Joint Base Lewis Mchord, WA (FEMA Federal Staging Area (FSA) Fairchild AFB, WA (nearby FEMA ISB of Grant International Airport (Moses Lake) WA

Kingsley Field Air National Guard Base, OR Travis Air Force Base, CA

<u>Purpose</u>: Rapidly open and expand the transportation network to ensure JTF-X has the capabilities, visibility, and support required for Joint Forces in support of FEMA

Maritime Command Element:

 Task: As rapidly as possible, establish maritime logistics support hub, in coordination with deployed DCRF and C2CRE A RTFs at coastal centers: Primary: Newport, OR and Aberdeen / Grays Harbor, WA; then Secondary: Tillamook, OR and Port Angeles, WA. <u>Purpose</u>: Save lives, minimize suffering, stabilize incident, and provide life sustaining support.

DOD Title 10 Units and Installations within Affected Area:

MET: Assess and report status, provide support as requested by civil authorities under Immediate Response Authority, and BPT provide capabilities in support of USNORTHCOM

P: Save lives, minimize suffering, stabilize incident, and facilitate provision of capabilities in support of the overall DOD effort







DOI/NDC NCP

Summary:

- All rescue capability Initially operating under Immediate Response and AFRCC/USCG coordination
 - Additional SAR capability coordinated through AFRCC/USCG Mass Rescue Operations
- ESF#9 activated, Overall Primary Agency designated, Federal SAR Coordination Group Deployed
 - US&R TFs: 24 Alerted, 18 Activated, 12 initially deployed
- USNORTHCOM proactively deploys DSCA CAT 1 & 2 forces, RFFs for CAT 4+ in anticipation of RFAs
- DoD to provide strat lift for Central and East US&R TFs and significant military support capability

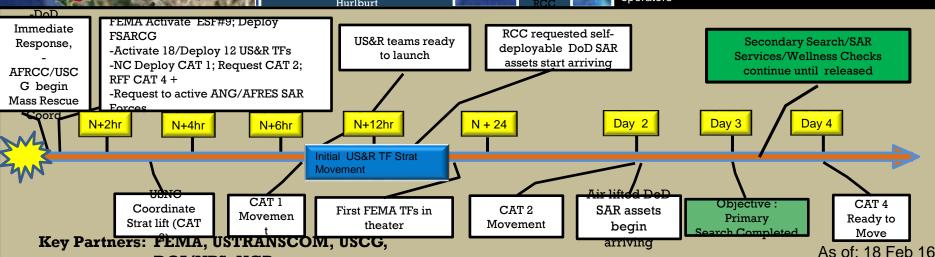


<u>Primary Tasks</u>: Initial Search & IAA, Strategic lift to support US&R TFs, Theater Opening, Rotary wing SAR and tactical lift, over-horizon comm, Landing/Pick up operations; medical response, collapsed st

<u>Washington Rqmts:</u> Initial SAR plan—shelter in place, then re-supply/evacuate; 8 SAR dedicated w hoist 3x HAAR C-130s; 50 GA; 39 tilt rotor/med-lift RW; 7 heavy-lift RW; 2x CAB; ARG with SPMAGTF (afloat); 200 LMTVs w operators

Oregon Rqmts: 1.5 CAB; ARG with SPMAGTF (afloat); 8 SAR RW; 30 GA; 3xHAAR C-130s; 60 tilt rotor/med-lift RW; 7 heavy lift RW; 200 LMTVs with operators;

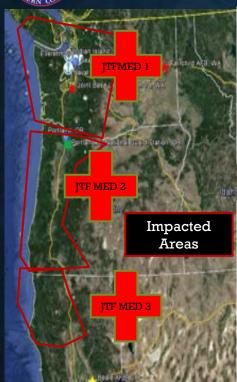
Northern California Rqmts: 9 SAR RW; 25 med-lift RW/tilt rotor; 3xHAAR C-130s; 16 GA; 150 LMTVs with operators







Medical Operations Concept



Summary: Establish regionalized Joint Health Support (JTF MED 1 / 2 / 3) within 72 hours to begin providing:

- Joint (air, ground, maritime) medical evacuation to transport survivors within the impacted area
- Joint medical triage, treatment, surgical and holding facilities to stabilize patients for transport
- · Joint patient movement (strategic lift) capability to evacuate patients outside of the impacted area
- Force health protection to include preventive medicine, combat stress control, and veterinary services
- Class VIII supply and resupply to supporting JHS medical capability

*DoD immediate response medical capabilities may be severally limited in the first 96 hours of a CSZ event

<u>Primary Tasks</u>: Provide Joint Health Support and Force Health Protection (FHP) measures ISO disaster relief operations in accordance with State and local requirements.

Potential Requirements:

Provide immediate medical care (Role 2, Role 3, FST)

- Treatment and triage
- Surgical stabilization
- Chronic disease management

Facilitate operability of hospitals (MEDLOG, Staffing)

- Class VIII resupply
- Staffing assistance
- Bed clearing evacuation
- Basic power, fuel, food, water support
- Communications capability assurance

Conduct patient evacuation (NDMS, MEDEVAC, GA)

- Conduct Intrastate (ground and air) patient evac
- Conduct interstate (ground and air) patient evac
- · Facilitate patient movement tracking

Prevent health threats (PM, VET, COSC)

- Food sanitation/inspection
- Prevent waterborne illnesses
- Animal care
- Mental health

- DoD Immediate Response
- US&R Medical
 Support

- FEMA Activate ESF 8
- Deploy JRMPO (X10)
- Activate MEDLOG and NDMS
- NC Deploy CAT 1, 2; RFF CAT 4 +
- Request to active ANG Med Forces
- JHS Land and Maritime Med Assets launch
- Begin NDMS AE

N±0

Redeployment / Discharge Planning Process for DoD

medical units

N + 24

N+48hr

N+72hr

N+96hr

TBD

Initial USNS Theater Afloat Medical Capability AE patients throughput to NDMS

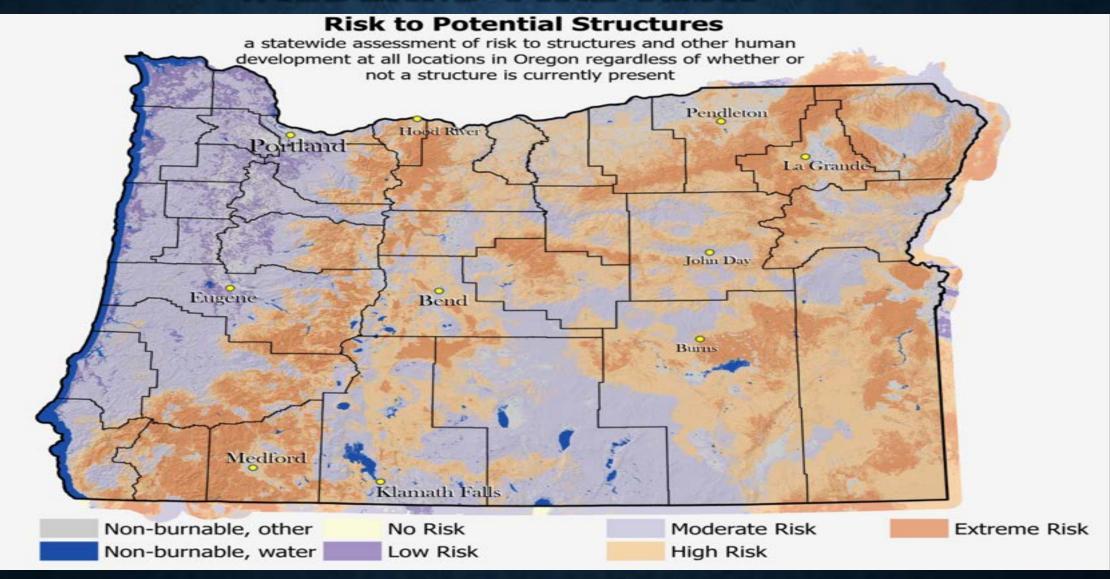
Key Partners: FEMA, USTRANSCOM, USCG, DOI/NPS. NGB

SUMMARY

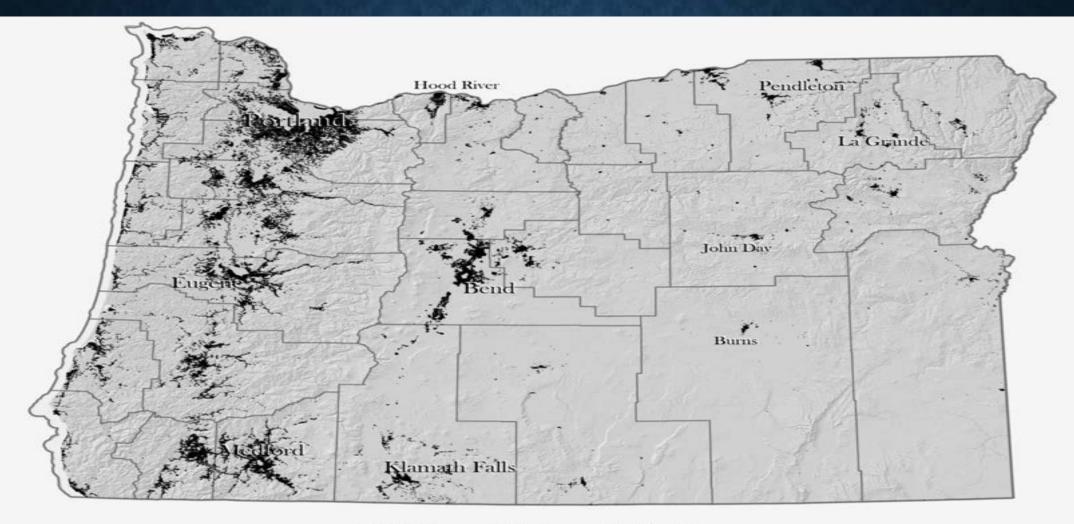
- Oregon can anticipate thousands of deaths and causalities from a catastrophic disaster event (CSZ Earthquake)
- All regions of Oregon will be affected, some more than others
- The State of Oregon has a Medical Response plan and framework in place.
- Population needs to be prepared to be without food, water, or shelter for extended periods of time
- Major challenges remain include increasing resiliency of individual families, schools, fuel, electricity, sanitation
- Medical institutions can anticipate lack of water, electricity, staffing, degraded structures, evacuation, and lack of medical supplies.

WILDLAND FIRE

WILDLAND FIRE RISK



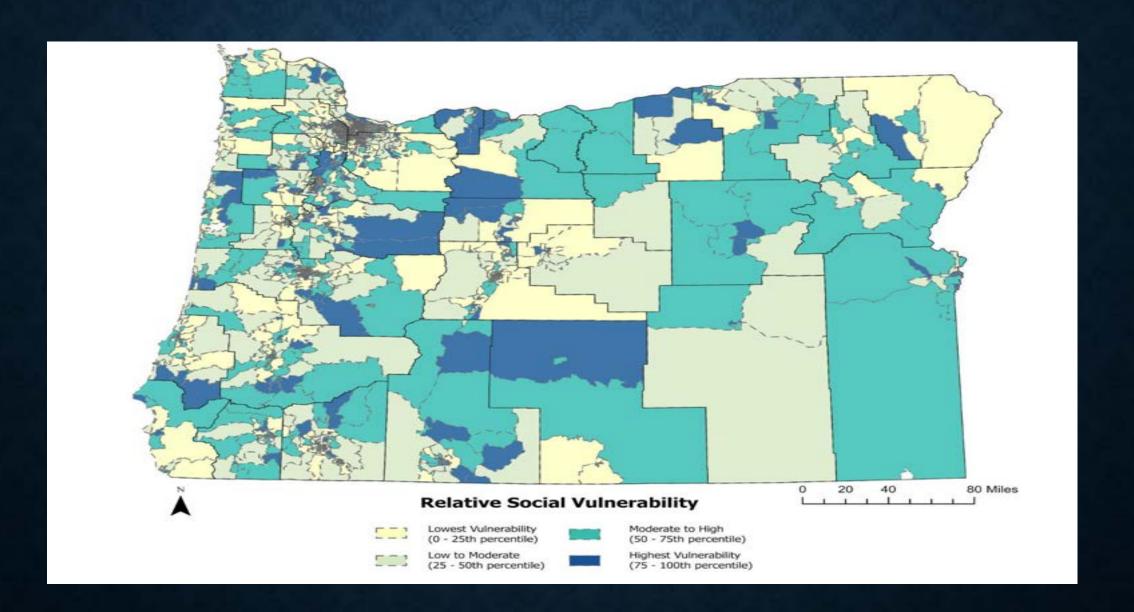
WILDLAND URBAN INTERFACE



Wildland Urban Interface



RELATIVE SOCIAL VULNERABILITY



WILDLAND FIRES IN OREGON

5 Oregon towns have been 'substantially destroyed' by wildfire, governor says

Charles R. Davis Sep 9, 2020, 3:42 PM



Fire seen in Salem City, Oregon, on Tuesday in a picture obtained from social media. ZAK STONE/via REUTERS

RIVERSIDE FIRE 2022



OREGON EVACUATION LEVELS



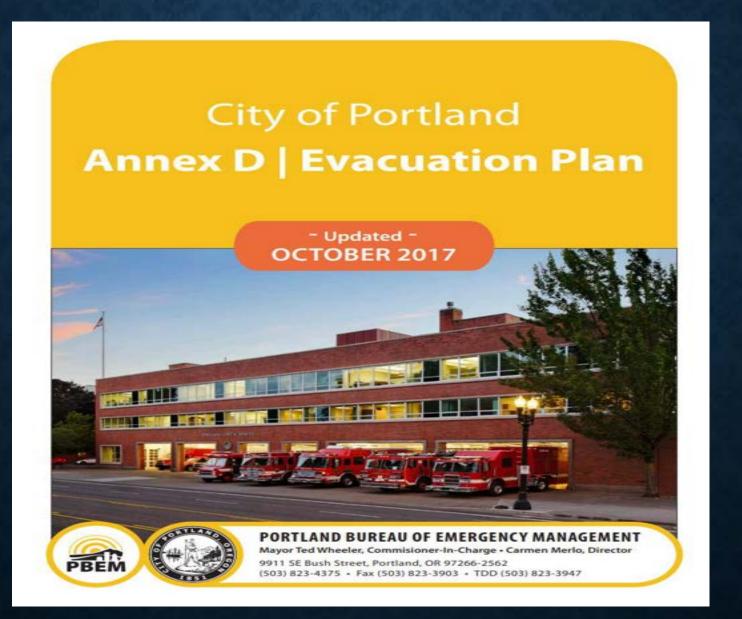
Oregon follows a 3 Level evacuation notification system, each structured around the readiness need and threat level. Know the current levels and what they mean to help make the best decision to stay safe. Don't wait to evacuate if you feel unsafe.

2

34



CITY OF PORTLAND EVACUATION PLAN

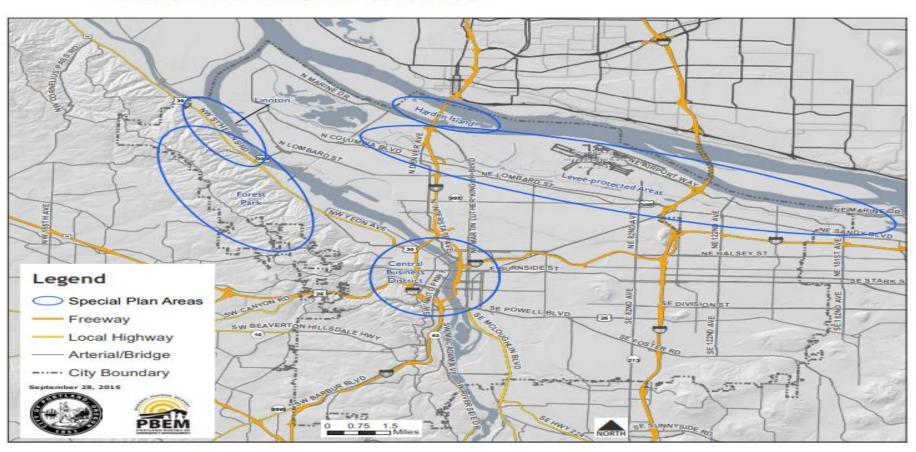






CITY OF PORTLAND EVACUATION MAP AREAS OF SPECIAL PLANNING

MAP 1 | CITY OF PORTLAND OVERVIEW MAP HIGHLIGHTING AREAS WITH SPECIAL PLANNING



SO, WHERE IS OREGON AS FAR AS MEDICAL PREPARATION FOR A CATASTROPHIC EVENT

Framework is in place but needs to be put together and exercised



SUMMARY

Strengths

- Civilian / Military collaboration
- Core components in place
- "Volunteerism" is high in Oregon
- Rural Communities are used to "being alone"
- Coastal and eastern Oregonians are very well aware of the disaster risks

Weakness

- No prior similar incidents
- Lack of concern (apathy) or attitude by population
- Vulnerable populations
- Infrastructure
- Lack of integration of plans
- Lack of coordination of Command / Control in some communities
- Organizations not used to respond to catastrophes

HOW CAN WE PREPARE FOR THIS EVENT?

CARMEN MERLO: DIRECTOR OF PORTLAND BUREAU OF EMERGENCY MANAGEMENT



WHAT SHOULD I IN MY "DISASTER KIT"



A 12- TO 15-INCH ADJUSTABLE PIPE OR CRESCENT WRENCH, FOR TURN-ING OFF WATER AND GAS (LEARN HOW: NWNATURAL.COM AND PORTLANDOREGON.GOV/WATER)



COPIES OF VITAL DOCUMENTS: BIRTH CERTIFICATES, INSURANCE POLICIES, WILLS, BANK ACCOUNT INFO, ETC.



WORK GLOVES AND PROTECTIVE GOGGLES



NEEDED PRESCRIPTION DRUGS, PLUS OVER-THE-COUNTER PAIN-KILLERS



ADD A WHISTLE TO YOUR KEY CHAIN—IT COULD BE A LIFE SAVER IF YOU'RE TRAPPED IN RUBBLE.



CHARCOAL OR PROPANE FOR OUT-DOOR COOKING. A BAYOU CLAS-SIC 12-INCH DOUBLE JET COOKER FROM LOWES (\$60) CAN BE USED IN THE MEANTIME FOR CAMPING!

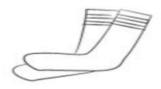
WHAT SHOULD I IN MY "DISASTER KIT"



EXTRA BATTERIES, MULTIPLE FLASHLIGHTS, LIGHT STICKS



DECK OF CARDS? HARMONICA? THE CANTERBURY TALES? SOME-THING, FOR SURE



COMFORTABLE, WARM CLOTHING, INCLUDING EXTRA SOCKS, AND RAIN GEAR SUCH AS A PONCHO



COOKING UTENSILS AND A
MANUAL CAN OPENER



AT LEAST 14 SERVINGS OF **FOOD** PER PERSON (CANNED, DRIED, OR OTHER LONG-LASTING FOODSTUFFS)



BLANKETS AND/OR SLEEPING BAGS, PERHAPS A TENT



HEAVY-DUTY PLASTIC BAGS (FOR WASTE AND TO SERVE AS TARPS) AND **DUCT TAPE**



HAND-CRANK RADIO. (AMBIENT WEATHER WR-11B OFFERS THE SWISS ARMY KNIFE OF AM/FM/ NOAA DIGITAL RADIOS FOR \$40.)



A MINIMUM OF **ONE GALLON OF WATER** PER PERSON, PER DAY, STORED IN FIVE-GALLON CONTAINERS. APARTMENT DWELLERS MIGHT CONSIDER A LIFESTRAW PERSONAL WATER FILTER (\$20). HOME-DWELLERS WITH WATER HEATERS, SAY HELLO TO YOUR NEW DRINKING FOUNTAINS.

RECOMMENDATIONS FOR MEDICAL PROVIDERS

- Have and exercise a family plan
 - Communications with family members
- Develop a family survival kit
- Know your institution and regional disaster response plan and most importantly your role.
- Assist in disaster planning and mitigation in your community

THE END