





1

DROP!



2

COVER!



3

HOLD ON!

Get Ready to Shake Out

October 18, 2012

shakeout.org/oregon



What we'll be talking about ...

- Recent History (Japan and Chile)
- Cascadia Planning
- Preparing your community
- Preparing your family
- Preparing you





Know your hazard Probability versus Possibility

Planning assumptions led to inadequate mitigations





Responders as victims

Lost political and response personnel

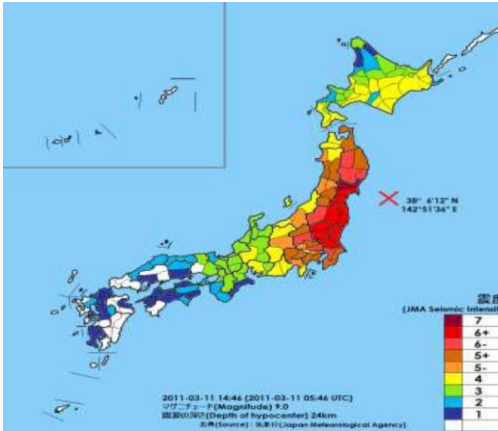


Minamis Sanriku; Emergency operations and Tsunami Warning destroyed. 10 staff
Otsuchi; Lost mayor, 7 senior staff, and 31 other municipal employees in the tsunami.



Human impact

March 11, 2011 Tohoku-oki



Earthquake and Tsunami

Seismic Intensity Map

- 107,000 buildings collapsed, and another 111,000 partially collapsed
 - 22,600 persons killed or missing nationwide
 - 15,500 confirmed deaths
 - 92.4% drowning

BUT

– 6.5 million people live within 200 miles of rupture zone



You can't prevent an Earthquake, but you can prepare for one



Building a culture of prevention is not easy because the cost of prevention has to be paid in the present, while its benefits lie in the distant future. Moreover, the benefits are not tangible; they are the disasters that did not happen.

(to paraphrase Kofi Annan)



Cascadia Planning Assumption

- Magnitude 9+ earthquake probable
- Three metropolitan cities in impact zone — Portland —Seattle —Vancouver, B.C.
- Heavy urbanization along the I-5 corridor
- Approximately 9.5 million people live in the hazard zone in WA & OR



Assumptions

- Will be at home/work
- Will be able to get home/work
- Will know what to do
- Will have emergency plans/supplies



<http://www.ready.gov/america/getakit/>



Recommendations

- Plan robust sheltering
 - In-place sheltering
 - Family or friends or own homes
 - Local shelters (can be a barrier to finding folks).
- Lifelines (power, water, sewage, gas) lacking for weeks.
- Bring the message home
 - Personal prep
 - Neighborhood prep
 - Community prep





Seismic Rehabilitation Grant Program

	Total Number Surveyed		Rated High/Very High Collapse Potential	
	Statewide	Multnomah Co.	Statewide	Multnomah Co.
K-12 Schools & Community Colleges	1,252	188	637	94
Emergency Services	816	58	209	20
Total	2,068	246	846	114

OR

	Statewide		Multnomah County	
	Total Surveyed	Rated High/Very High Collapse Potential	Total Surveyed	Rated High/Very High Collapse Potential
K-12 Schools & Community Colleges	1,252	637	188	94
Emergency Services	816	209	58	20
Total	2,068	846	246	114



Seismic Rehabilitation Grant Program

Statewide Project Summary

	2009-2010	2010-2011	2011-2012
Awarded	\$15 million	\$7.5 million	\$7.5 million (schools only)
Number of School Projects	14	3	8
Number of Emergency Services Projects	11	7	0

Multnomah County Projects

	Grant Award	Avoided Damages & Losses*	Status
Portland Public Schools Alameda Elementary	\$1,500,000	\$2,189,064	Summer 2013
David Douglas SD Floyd Light Middle School	\$1,489,766	\$4,119,862	Complete
City of Gresham Public Safety Bldg./Sta.71 & Sta. 72	\$273,866	\$401,168	Complete



Questions