



## Statewide Seismic Needs Assessment

### Overview

In 2005, the Oregon Legislature passed Senate Bill 2, which directed DOGAMI to complete seismic screenings of public school buildings with capacity of 250 and higher, as well emergency facilities such as acute care hospitals, fire stations and police stations. The bill appropriated \$500,000 for the project, which was to be completed by July 1, 2007.

The seismic needs assessment provided initial information on the seismic risk of Oregon's schools and emergency facilities. The assessment used rapid visual screening, a FEMA technique for identifying and ranking buildings that are potentially hazardous and need further in-depth assessment. The relative seismic risk of a building is determined by five parameters: seismic zone, building structural type, building shape, original construction date, and type of soil.

#### Districts and Schools Assessed

DOGAMI identified 1602 public schools in 210 districts. Because building capacity data was not available, DOGAMI used enrollment data to determine which schools would be included. Schools with enrollments above 200 were assessed. The number of schools assessed was expanded further by including all schools at risk of tsunami inundation. In an effort to include schools housing at least 90 percent of students enrolled in each county, DOGAMI added an additional 71 schools with enrollments below 200.

Ultimately, 1,101 schools housing approximately 97 percent of students enrolled statewide were assessed.

#### Districts and Schools Not Assessed

501 schools were not evaluated. Based on 2007 data, the combined enrollment of the schools not assessed was 18,235. There were 39 districts in which no schools were included – see attached list.

It is likely that a small number of those original 501 schools have been closed, retrofitted or evaluated in the last ten years, but it would require considerable research to accurately determine this. In developing the original total population, it is also possible that a small number of schools were missed.

Any schools that have been constructed since 2007 would meet modern code requirements and do not need assessment.

### Seismic Status Reports

Since 2012, Oregon law has required school districts to report annually on any construction projects, such as construction of new buildings or retrofits of existing buildings, that may affect a school's seismic risk. DOGAMI notifies districts of the requirement annually, and posts submitted reports at <http://www.oregongeology.org/sub/projects/rvs/activity-updates/status.html> along with district seismic needs assessments.

DOGAMI has not had the resources to analyze the information submitted, or update the seismic needs assessments to reflect construction projects undertaken since 2007. Though submission of the reports is

required, and district participation is required, not all districts submit reports annually. Reporting statistics to-date include:

- A total of 419 reports have been received from all districts; 347 of those were from districts included in the 2007 assessment.
- 79 percent of all districts have submitted at least one report; 93 percent of districts included in the 2007 assessment have submitted at least one report.
- Annual participation rates have ranged from 46 percent of all districts in 2012 to 18 percent of all districts in 2014. Districts may report that no construction projects affecting the seismic risk took place, so participation percentages should not be taken as an indication of construction activity.

**DOGAMI Contact**

Ian Madin, Deputy Director

[ian.madin@oregon.gov](mailto:ian.madin@oregon.gov)

971-673-1542

**DISTRICTS WITH NO SCHOOLS EVALUATED IN STATEWIDE SEISMIC NEEDS ASSESSMENT**

*Enrollment in these schools fell below the enrollment threshold of 200. An additional 404 individual schools in other districts were also not evaluated in the 2007 project.*

<b>District Name</b>	<b># Schools in District</b>
1. Adel 21	1
2. Alsea 7J	2
3. Annex 29	1
4. Arock 81	1
5. Ashwood 8	1
6. Blachley 90	1
7. Black Butte 41	1
8. Clackamas ESD R15	25
9. Diamonds 7	1
10. Double O 28	1
11. Douglas County SD15	2
12. Drewsey 13	1
13. Elkton 34	2
14. Falls City 57	2
15. Frenchglen 16	1
16. Harper 66	1
17. Jordan Valley 3	3
18. Juntura 12	1
19. Lane ESD R05	1
20. Malheur ESD Region 14	1
21. Mappleton 32	2
22. McKenzie 68	3
23. Northwest regional ESD R01	11
24. ODE JDEP District	15
25. Oregon Department of Education: Four Rivers Community	1
26. Oregon Department of Education: Oregon School for the Deaf*	1
27. Oregon Department of Education: Oregon School for the Blind*	1
28. Oregon Department of Education: Victory Middle	1
29. Pine Creek 5	1
30. Pinehurst 94	1
31. Plush 18	1
32. Region 9 ESD	1
33. South Coast ESD R7	1
34. South Harney 33	1
35. St Paul 45	2
36. Suntex 10	1

37. Troy 54	1
38. Ukiah 80	1
39. Umatilla-Morrow ESD	1
<b>Total number of schools</b>	<b>97</b>
<i>*DOGAMI has since completed rapid visual screenings for the Oregon School for the Deaf and Oregon School for the Blind.</i>	