Building Distribution Map of Lincoln County, Oregon
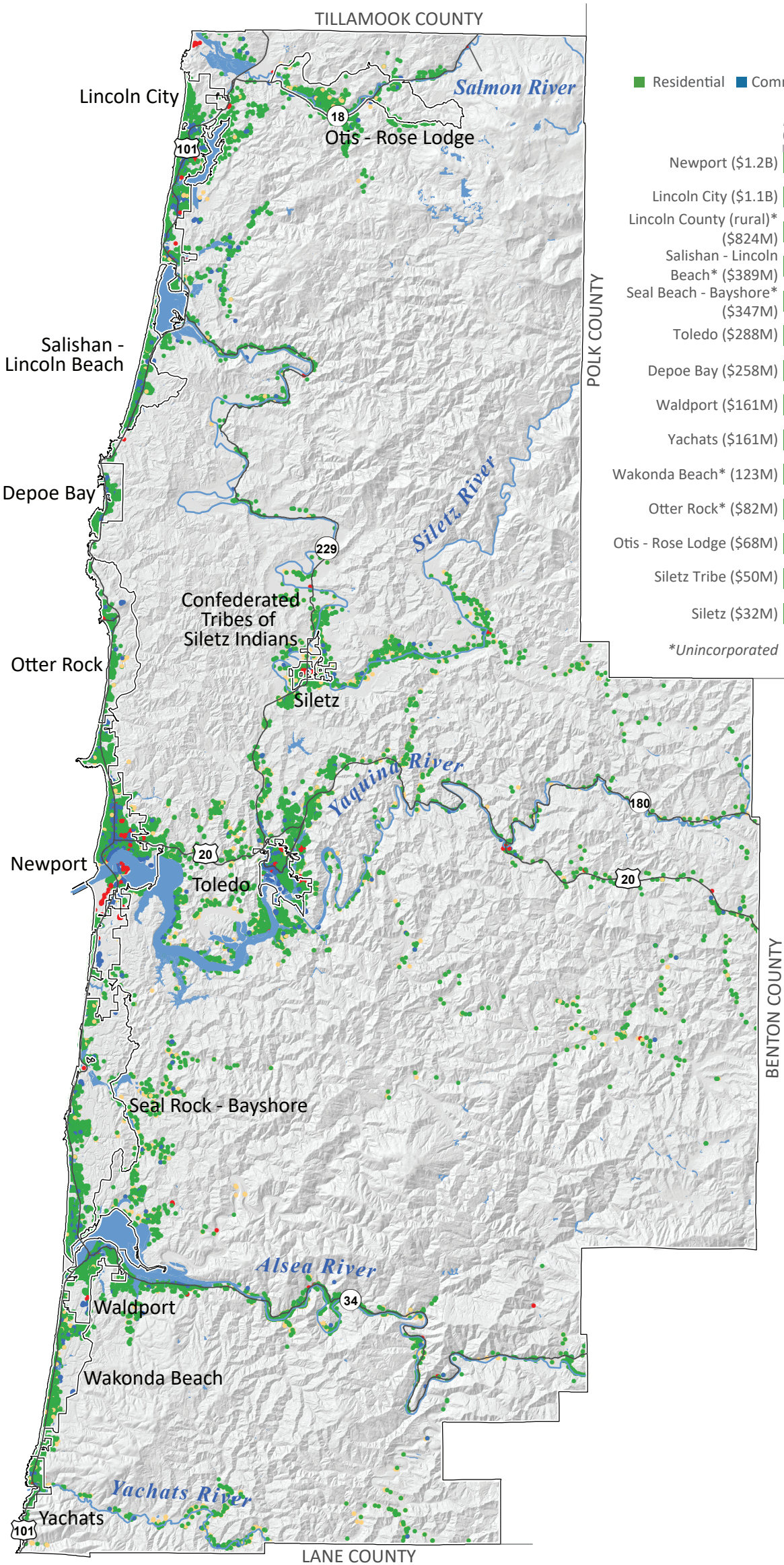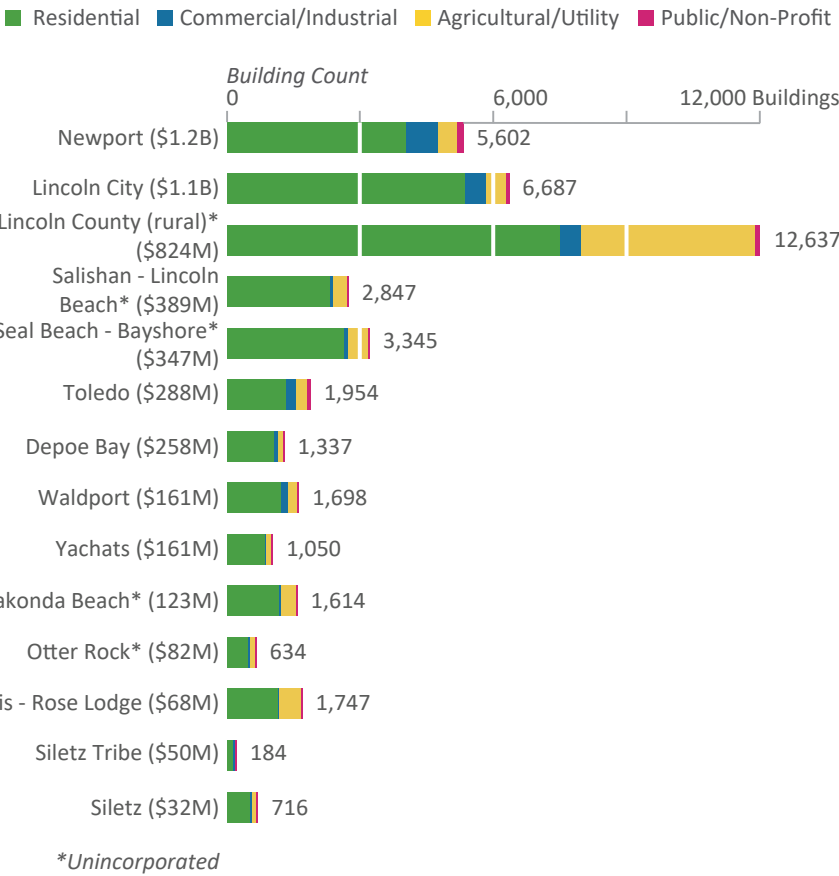
PLATE 1

OREGON

Study Location Map

Buildings by Occupancy Class
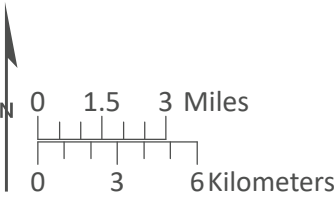(Ranked by Value)

■ Residential ■ Commercial/Industrial ■ Agricultural/Utility ■ Public/Non-Profit

Building Count

	Building Count
Newport ($1.2B)	5,602
Lincoln City ($1.1B)	6,687
Lincoln County (rural)* ($824M)	12,637
Salishan - Lincoln Beach* ($389M)	2,847
Seal Beach - Bayshore* ($347M)	3,345
Toledo ($288M)	1,954
Depoe Bay ($258M)	1,337
Waldport ($161M)	1,698
Yachats ($161M)	1,050
Wakonda Beach* (123M)	1,614
Otter Rock* ($82M)	634
Otis - Rose Lodge ($68M)	1,747
Siletz Tribe ($50M)	184
Siletz ($32M)	716

Unincorporated

Map labels:
TILLAMOOK COUNTY
Lincoln City
Salmon River
Otis - Rose Lodge
18
101
Salishan - Lincoln Beach
POLK COUNTY
Depoe Bay
Siletz River
229
Confederated Tribes of Siletz Indians
Otter Rock
Siletz
Yaquina River
180
Newport
20
Toledo
20
BENTON COUNTY
Seal Rock - Bayshore
Alsea River
34
Waldport
Wakonda Beach
Yachats River
Yachats
101
LANE COUNTY

Building Occupancy

● Agricultural / Utility
● Commercial & Industrial
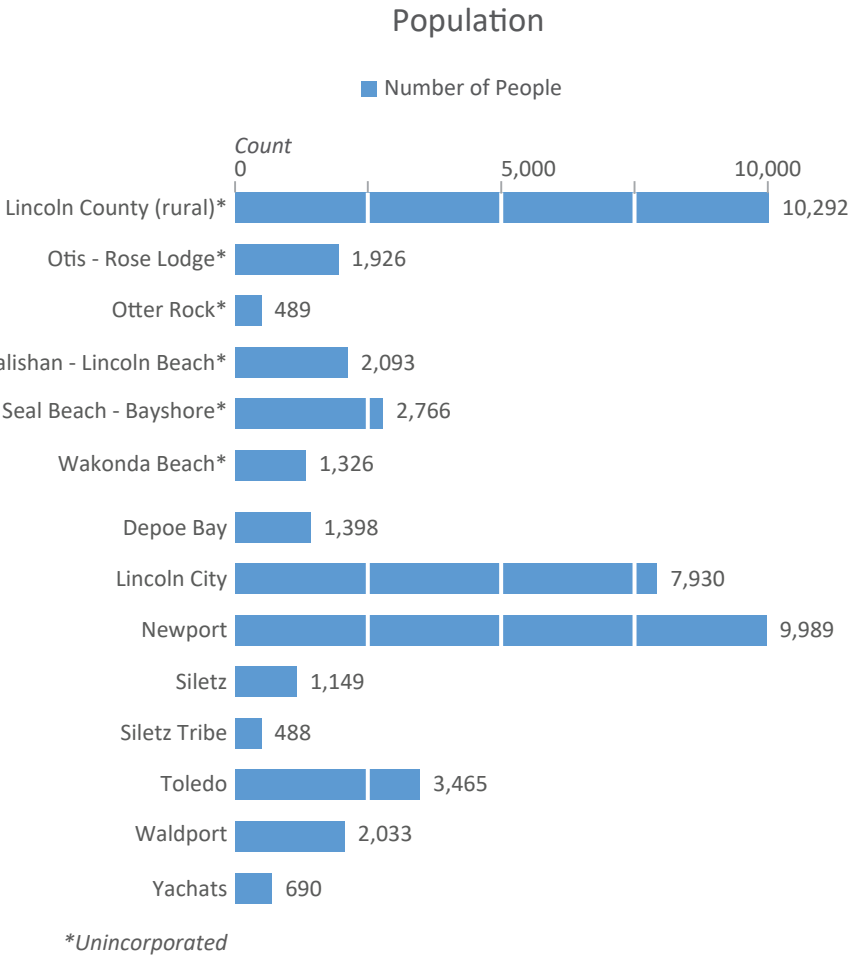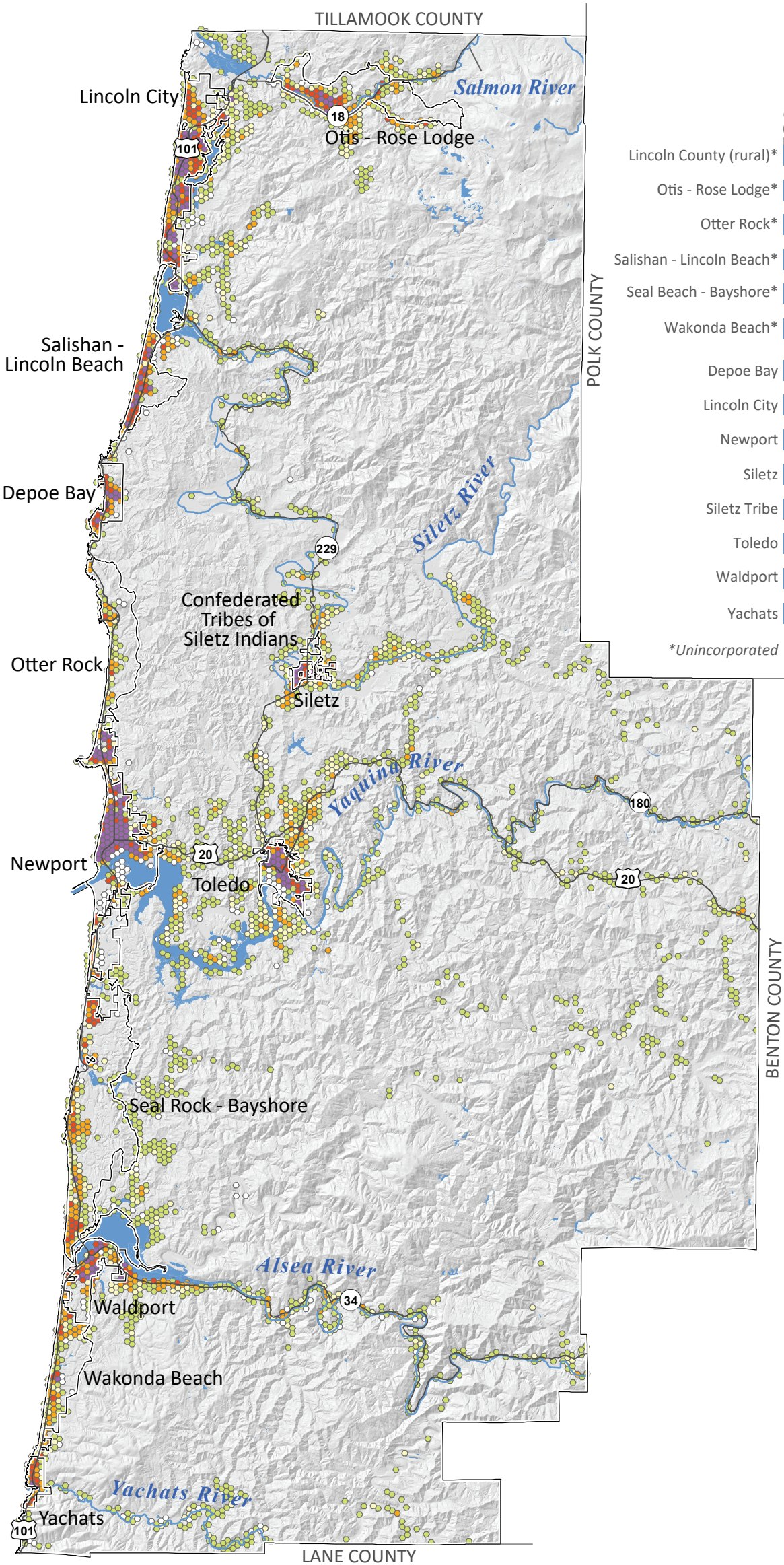● Public & Non Profit
● Residential

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0 1.5 3 Miles
0 3 6 Kilometers

Population Density Map of Lincoln County, Oregon

PLATE 2

OREGON

Study Location Map

TILLAMOOK COUNTY

Lincoln City

Otis - Rose Lodge

Salmon River

Salishan - Lincoln Beach

Depoe Bay

Otter Rock

Confederated Tribes of Siletz Indians

Siletz

Siletz River

POLK COUNTY

Yaquina River

Newport

Toledo

Seal Rock - Bayshore

Alsea River

Waldport

Wakonda Beach

Yachats River

Yachats

LANE COUNTY

BENTON COUNTY

Population

■ Number of People

	Count
	0 ——— 5,000 ——— 10,000
Lincoln County (rural)*	10,292
Otis - Rose Lodge*	1,926
Otter Rock*	489
Salishan - Lincoln Beach*	2,093
Seal Beach - Bayshore*	2,766
Wakonda Beach*	1,326
Depoe Bay	1,398
Lincoln City	7,930
Newport	9,989
Siletz	1,149
Siletz Tribe	488
Toledo	3,465
Waldport	2,033
Yachats	690

Unincorporated

People per 20 acres

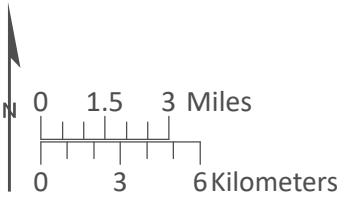⬡ Building(s) present no permanent residents
⬡ 0 - 10
⬡ 11 - 20
⬡ 21 - 40
⬡ 41 - 80
⬡ 81 +

This map is an overview map and not intended to provide details at the community scale. The GIS data that is published with the Lincoln County Natural Hazard Risk Assessment can be used to inform regarding queries at the community scale.

Data Sources:
Population data: U.S. Census (2010)
Roads: Oregon Department of Transportation (2014)
Place names: U.S. Geological Survey Geograpic Names Information System (2015)
City limits: Oregon Department of Transportation (2014)
Basemap: U.S. Geological Survey and Oregon Lidar Consortium (2012)

Projection: NAD 1983 UTM Zone 10N
Software: Esri® ArcMap 10, Adobe® Illustrator CS6

Cartography by: Lowell H. Anthony, 2018

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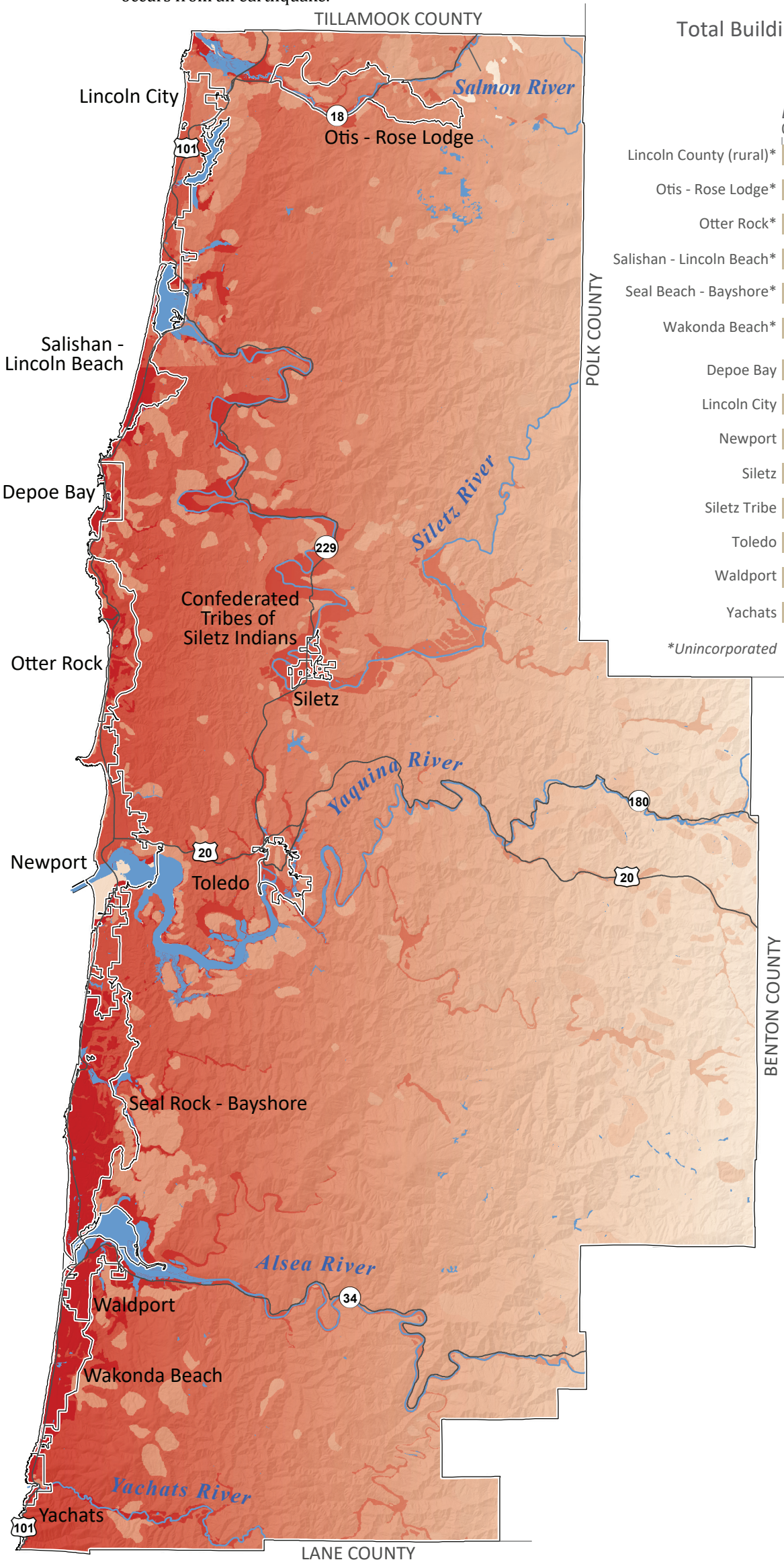
| 0 | 1.5 | 3 Miles |
| 0 | 3 | 6 Kilometers |

PLATE 3

M9.0 CSZ Earthquake Shaking Map of Lincoln County, Oregon
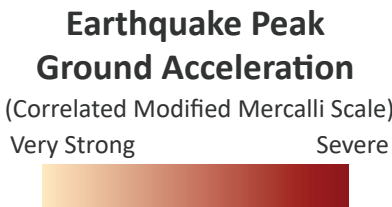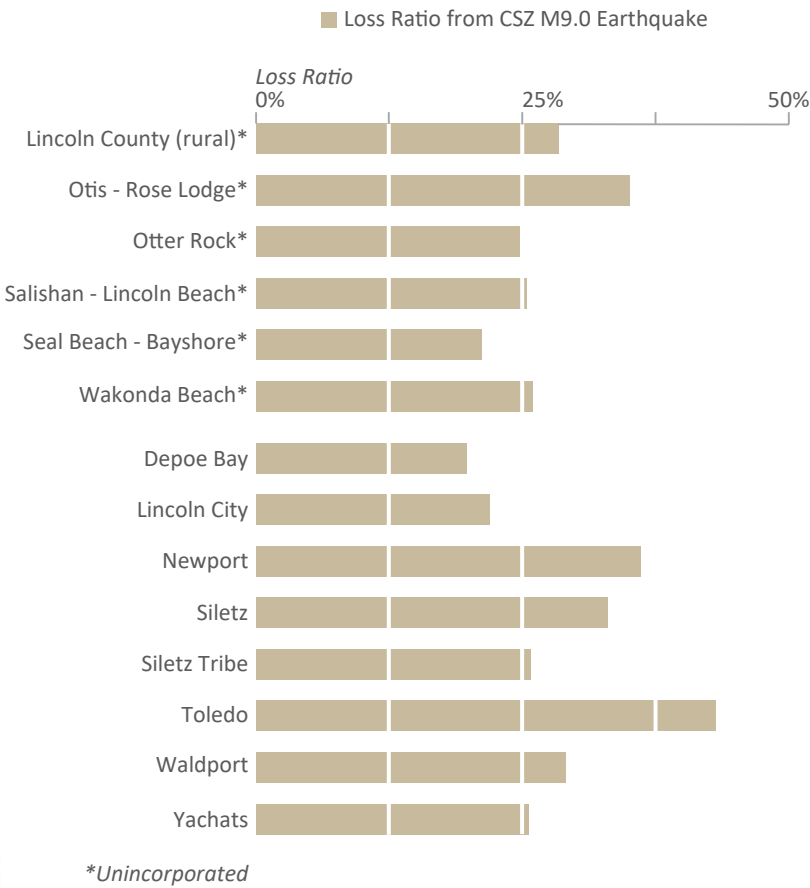
OREGON

Study Location Map

Peak Ground Acceleration (PGA) is the maximum acceleration in a given location or rather how hard the ground is shaking during an earthquake. It is one measurement of ground motion, which is closely associated with the level of damage that occurs from an earthquake.

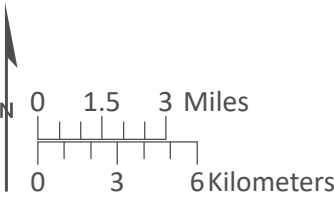## Total Building Value Loss Ratio from M 9.0 Earthquake

■ Loss Ratio from CSZ M9.0 Earthquake

Loss Ratio
| | 0% | 25% | 50% |

- Lincoln County (rural)*
- Otis - Rose Lodge*
- Otter Rock*
- Salishan - Lincoln Beach*
- Seal Beach - Bayshore*
- Wakonda Beach*
- Depoe Bay
- Lincoln City
- Newport
- Siletz
- Siletz Tribe
- Toledo
- Waldport
- Yachats

*Unincorporated

Earthquake Peak Ground Acceleration
(Correlated Modified Mercalli Scale)

Very Strong — Severe

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TILLAMOOK COUNTY

Lincoln City
Otis - Rose Lodge
Salmon River
Salishan - Lincoln Beach
Depoe Bay
Otter Rock
Confederated Tribes of Siletz Indians
Siletz
Newport
Toledo
Seal Rock - Bayshore
Waldport
Wakonda Beach
Yachats

Salmon River
Siletz River
Yaquina River
Alsea River
Yachats River

POLK COUNTY
BENTON COUNTY
LANE COUNTY

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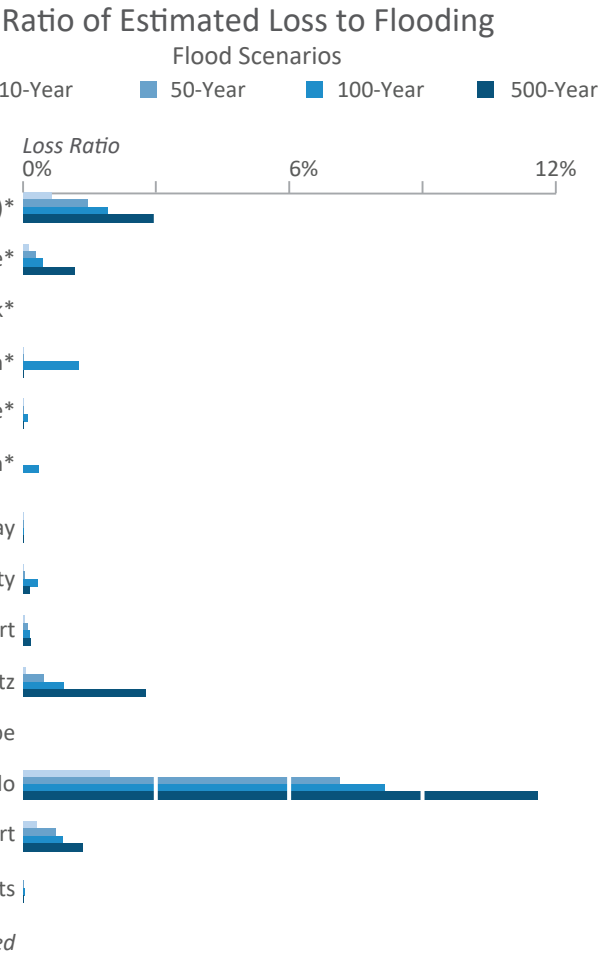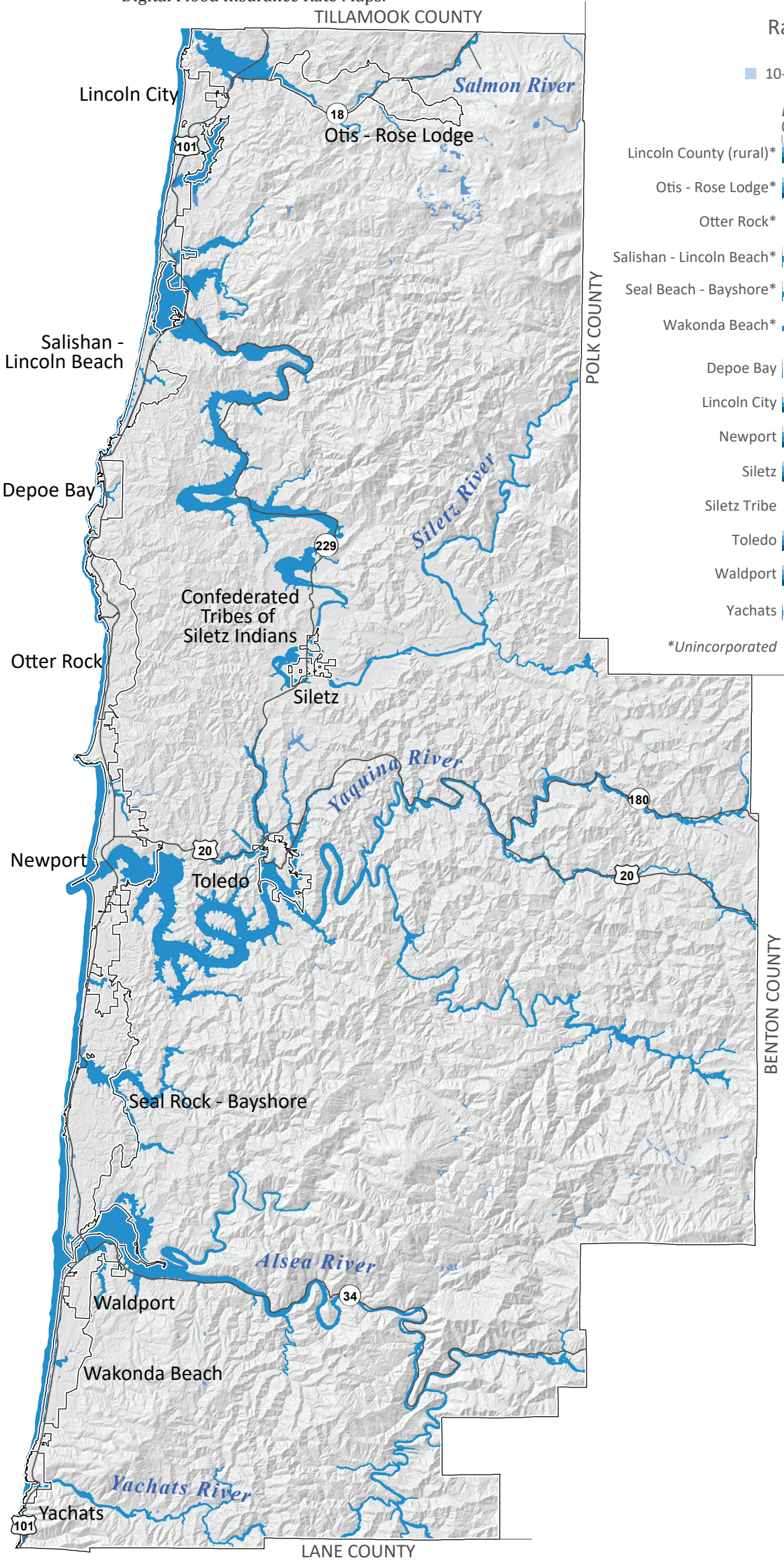
0   1.5   3 Miles
0   3   6 Kilometers

Flood Hazard Map of Lincoln County, Oregon

PLATE 4

OREGON

Study Location Map

The flood hazard data show areas expected to be inundated during a 100-year flood event. Flooding sources include riverine. Areas are consistent with the regulatory flood zones depicted in Lincoln County's Digital Flood Insurance Rate Maps.
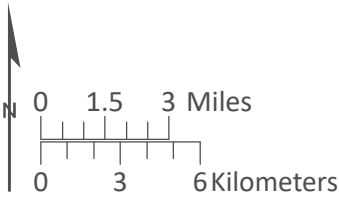
TILLAMOOK COUNTY

Lincoln City

Otis - Rose Lodge

Salmon River

Salishan - Lincoln Beach

Siletz River

Depoe Bay

Confederated Tribes of Siletz Indians

Siletz

Otter Rock

POLK COUNTY

Ratio of Estimated Loss to Flooding

Flood Scenarios

■ 10-Year   ■ 50-Year   ■ 100-Year   ■ 500-Year

Loss Ratio
0%   6%   12%

Lincoln County (rural)*
Otis - Rose Lodge*
Otter Rock*
Salishan - Lincoln Beach*
Seal Beach - Bayshore*
Wakonda Beach*
Depoe Bay
Lincoln City
Newport
Siletz
Siletz Tribe
Toledo
Waldport
Yachats

*Unincorporated

Yaquina River

Newport

Toledo

BENTON COUNTY

Flood Hazard Zone

■ 100-Year Flood (1% annual chance)

Seal Rock - Bayshore

This map is an overview map and not intended to provide details at the community scale. The GIS data that is published with the Lincoln County Natural Hazard Risk Assessment can be used to inform regarding queries at the community scale.

Alsea River

Waldport

Wakonda Beach

Yachats River

Yachats

LANE COUNTY

Data Sources:
Flood hazard zone (100-year): Lincoln County Flood Insurance Rate Map (2018)
Roads: Oregon Department of Transportation (2014)
Place names: U.S. Geological Survey Geograpic Names Information System (2015)
City limits: Oregon Department of Transportation (2014)
Basemap: U.S. Geological Survey and Oregon Lidar Consortium (2012)

Projection: NAD 1983 UTM Zone 10N
Software: Esri® ArcMap 10, Adobe® Illustrator CS6

Cartography by: Lowell H. Anthony, 2018

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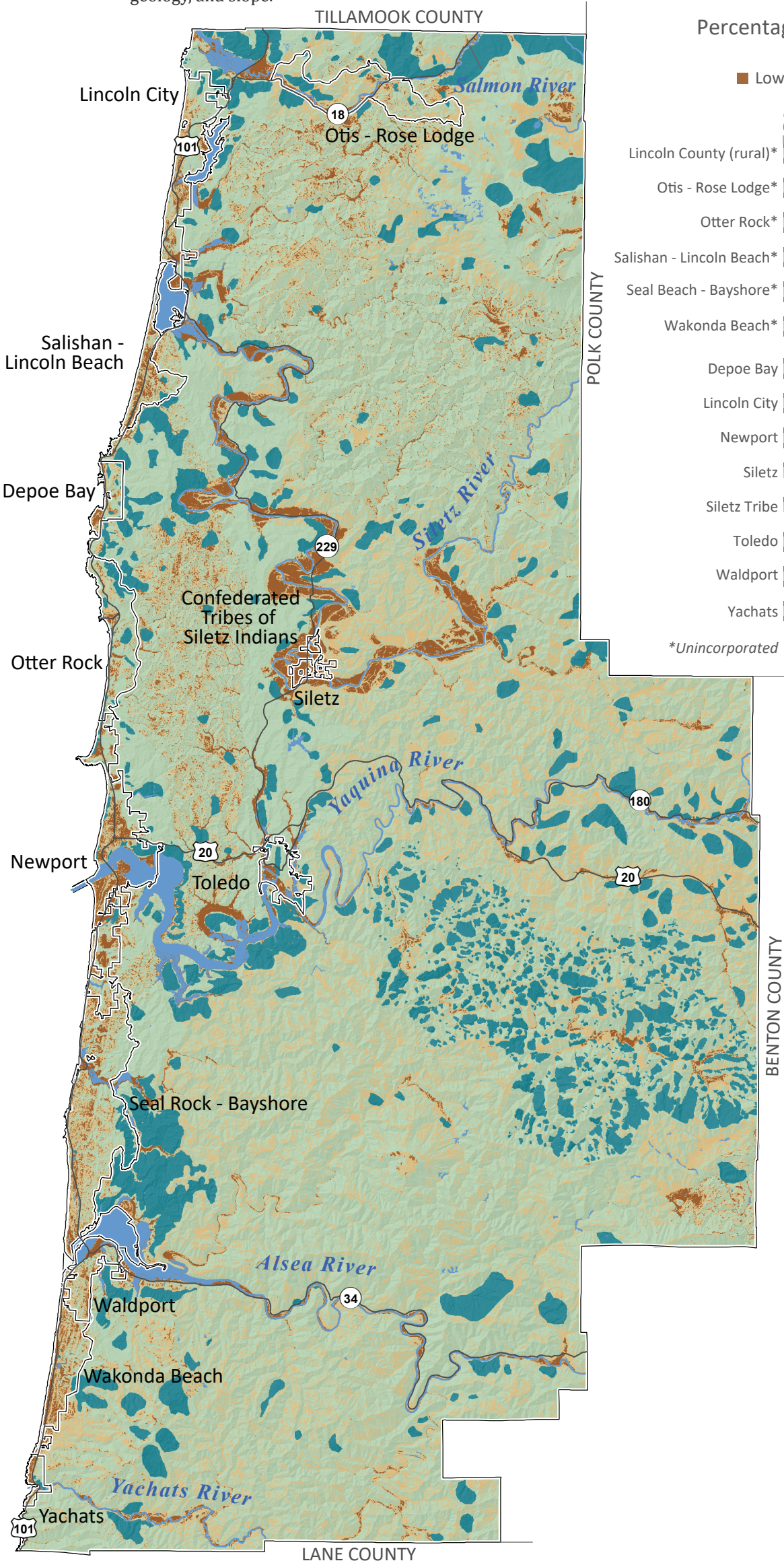
0   1.5   3 Miles
0   3   6 Kilometers

Landslide Susceptibility Map of Lincoln County, Oregon

PLATE 5

OREGON

Study Location Map

Landslide susceptibility is categorized as Low, Moderate, High, and Very High which describes the general level of susceptibility to landslide hazard. The dataset is an aggregation of three primary sources: landslide inventory (SLIDO), generalized geology, and slope.
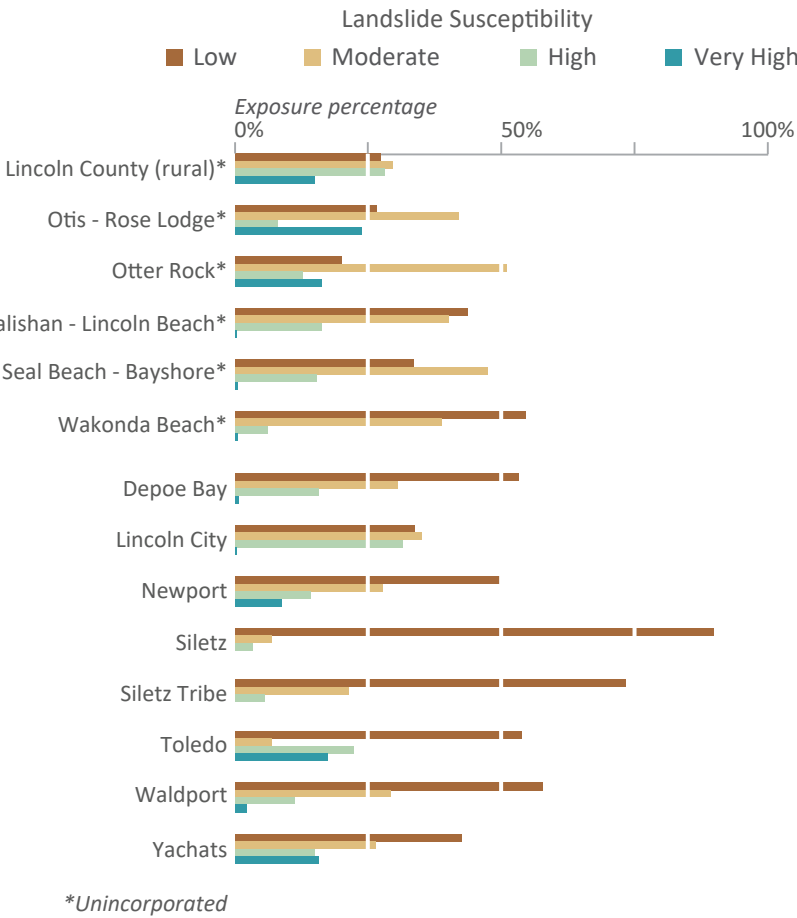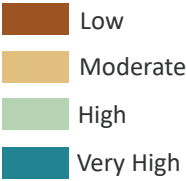

Percentage of Building Value Exposed to Landslide

Landslide Susceptibility
■ Low ■ Moderate ■ High ■ Very High

Exposure percentage
0% — 50% — 100%

- Lincoln County (rural)*
- Otis - Rose Lodge*
- Otter Rock*
- Salishan - Lincoln Beach*
- Seal Beach - Bayshore*
- Wakonda Beach*
- Depoe Bay
- Lincoln City
- Newport
- Siletz
- Siletz Tribe
- Toledo
- Waldport
- Yachats

*Unincorporated

Landslide Susceptibility
■ Low
■ Moderate
■ High
■ Very High
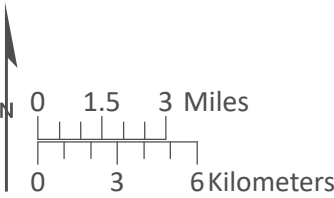
This map is an overview map and not intended to provide details at the community scale. The GIS data that is published with the Lincoln County Natural Hazard Risk Assessment can be used to inform regarding queries at the community scale.

Data Sources:
Landslide susceptibility: Oregon Department of Geology, Burns and others (2016)
Roads: Oregon Department of Transportation (2014)
Place names: U.S. Geological Survey Geograpic Names Information System (2015)
City limits: Oregon Department of Transportation (2014)
Basemap: U.S. Geological Survey and Oregon Lidar Consortium (2012)

Projection: NAD 1983 UTM Zone 10N
Software: Esri® ArcMap 10, Adobe® Illustrator CS6

Cartography by: Lowell H. Anthony, 2018

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0   1.5   3 Miles
0   3   6 Kilometers

Wildfire Risk Map of Lincoln County, Oregon

PLATE 6

OREGON

Study Location Map

Wildfire Risk is categorized as Low, Moderate, and High and indicates the level of risk a location has to wildfire hazard. The Wildfire Risk data layer (Fire Risk Index) is derived from a combination of the Fire Threat Index (fire history and behavior) and the Fire Effects Index (infrastructure and assets).
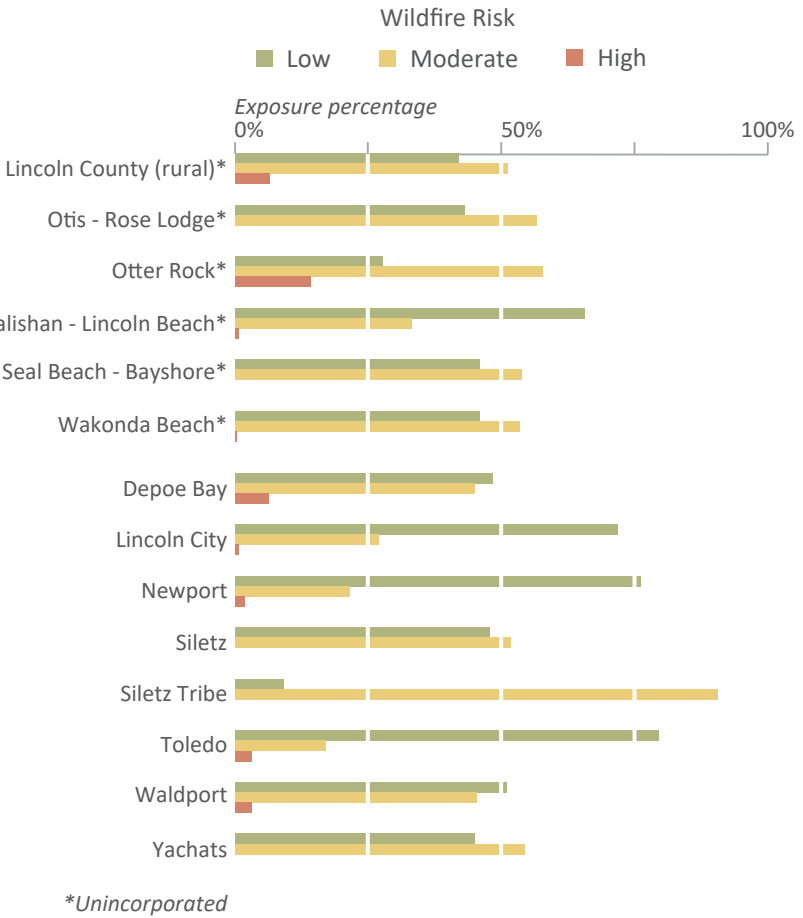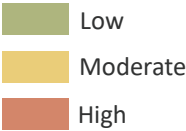
TILLAMOOK COUNTY

Salmon River

Lincoln City

Otis - Rose Lodge

Salishan - Lincoln Beach

Depoe Bay

Siletz River

Otter Rock

Confederated Tribes of Siletz Indians

Siletz

POLK COUNTY

Yaquina River

Newport

Toledo

Seal Rock - Bayshore

BENTON COUNTY

Alsea River

Waldport

Wakonda Beach

Yachats River

Yachats

LANE COUNTY

Percentage of Building Value Exposed to Wildfire

Wildfire Risk

■ Low ■ Moderate ■ High

Exposure percentage

0%   50%   100%

Lincoln County (rural)*
Otis - Rose Lodge*
Otter Rock*
Salishan - Lincoln Beach*
Seal Beach - Bayshore*
Wakonda Beach*

Depoe Bay
Lincoln City
Newport
Siletz
Siletz Tribe
Toledo
Waldport
Yachats

*Unincorporated

Wildfire Risk

■ Low

■ Moderate

■ High
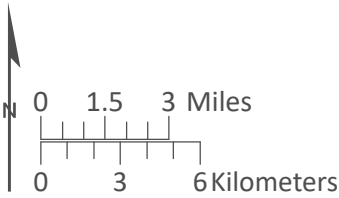
This map is an overview map and not intended to provide details at the community scale. The GIS data that is published with the Lincoln County Natural Hazard Risk Assessment can be used to inform regarding queries at the community scale.

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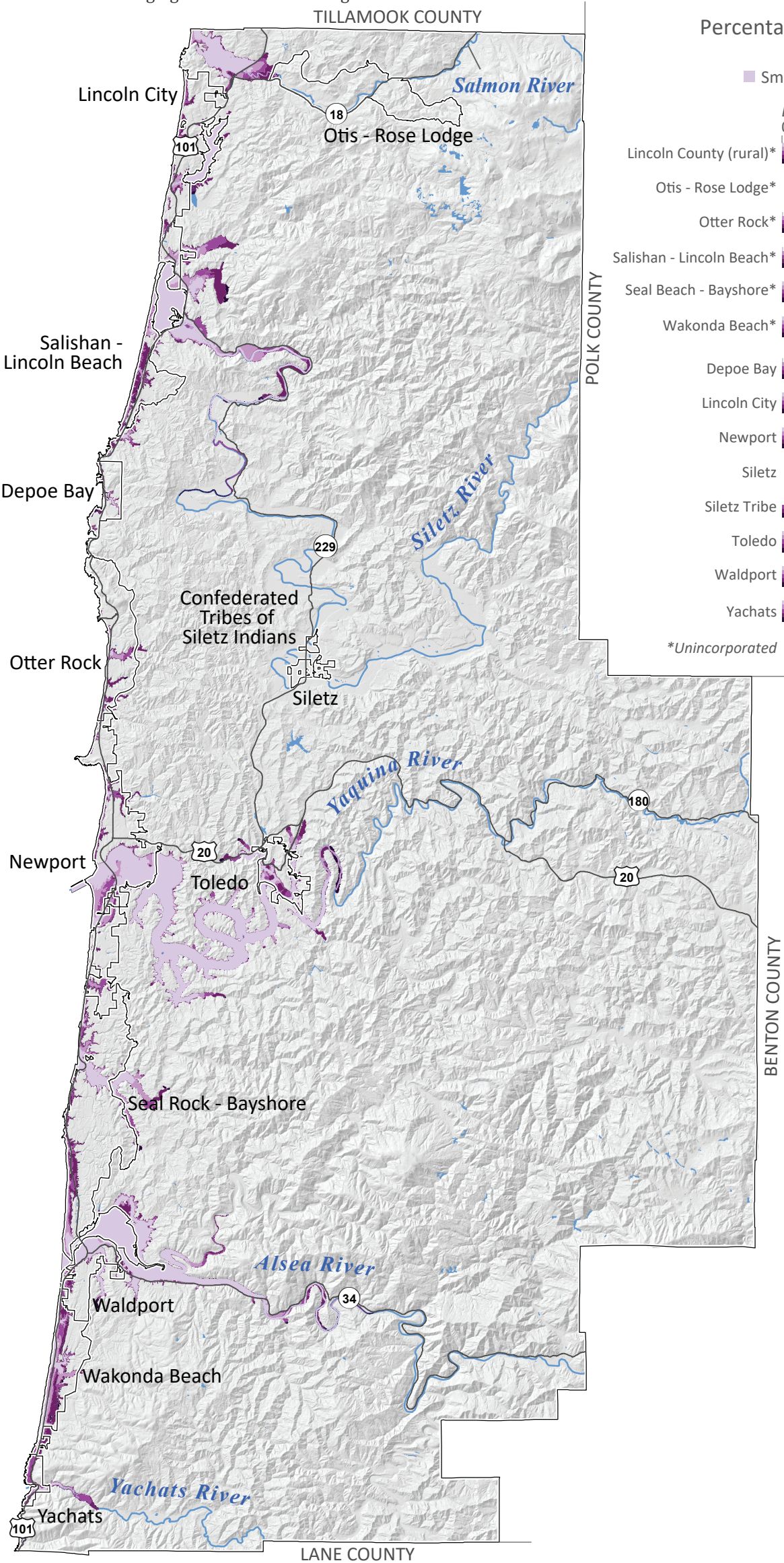
0   1.5   3 Miles

0   3   6 Kilometers

Tsunami Inundation Map of Lincoln County, Oregon

PLATE 7

OREGON

Study Location Map

The tsunami hazard data show areas of expected innundation from several local tsunami scenarios produced from a magnitude 9.0 CSZ earthqauke. The scenarios were categorized based on "t-shirt" sizes, ranging from Small to XX-Large
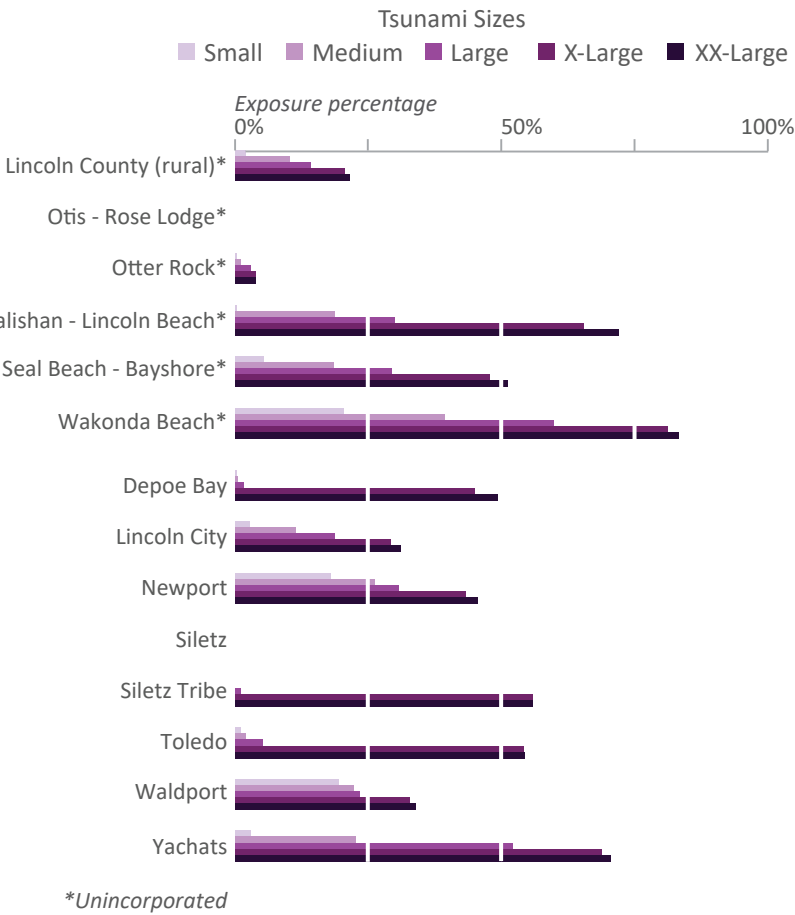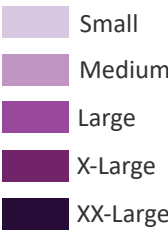
TILLAMOOK COUNTY

Lincoln City

Otis - Rose Lodge

Salishan - Lincoln Beach

Depoe Bay

Otter Rock

Confederated Tribes of Siletz Indians

Siletz

Newport

Toledo

Seal Rock - Bayshore

Waldport

Wakonda Beach

Yachats

LANE COUNTY

POLK COUNTY

BENTON COUNTY

Salmon River

Siletz River

Yaquina River

Alsea River

Yachats River

Percentage of Building Value Exposed to Tsunami

Tsunami Sizes

Small Medium Large X-Large XX-Large

Exposure percentage

0%   50%   100%

- Lincoln County (rural)*
- Otis - Rose Lodge*
- Otter Rock*
- Salishan - Lincoln Beach*
- Seal Beach - Bayshore*
- Wakonda Beach*
- Depoe Bay
- Lincoln City
- Newport
- Siletz
- Siletz Tribe
- Toledo
- Waldport
- Yachats

*Unincorporated

Tsunami Hazard Zone

- Small
- Medium
- Large
- X-Large
- XX-Large

This map is an overview map and not intended to provide details at the community scale. The GIS data that is published with the Lincoln County Natural Hazard Risk Assessment can be used to inform regarding queries at the community scale.

Data Sources:
Tsunami hazard zones: Oregon Department of Geology, Priest and others (2013)
Roads: Oregon Department of Transportation (2014)
Place names: U.S. Geological Survey Geograpic Names Information System (2015)
City limits: Oregon Department of Transportation (2014)
Basemap: U.S. Geological Survey and Oregon Lidar Consortium (2012)

Projection: NAD 1983 UTM Zone 10N
Software: Esri® ArcMap 10, Adobe® Illustrator CS6

Cartography by: Lowell H. Anthony, 2018

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0   1.5   3 Miles
0   3   6 Kilometers